



Environment

Prepared for:
Consolidated Edison
Astoria, NY

Prepared by:
AECOM
New York, NY
60315649
June 2014

Interim Site Management Plan Indoor and Ambient Air Sampling Report 2014 Sampling Activities

Former East 14th, East 17th, and East 19th Street MGP Station Sites



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Prepared By Jennifer E. Pfeiffer, Task Manager

Reviewed By Mark McCabe, Project Manager

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List of Acronyms

ASP	Analytical Service Protocol
CLP	Contract Laboratory Program
CMS	Chip Measurement System
DUSR	Data Usability Study Report
HVAC	Heating, Ventilation, and Air Conditioning
ISMP	Interim Site Management Plan
MGP	Manufactured Gas Plant
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	photoionization detector
USEPA	United States Environmental Protection Agency
VOC	volatile organic compounds

List of Measurements

ppb	parts per billion
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter of air

1.0 Introduction

This report has been prepared by AECOM Environment (AECOM) on behalf of Consolidated Edison Company of New York, Inc. (Con Ed) to present the results of the indoor air sampling at buildings located in the footprint of the former gas holder locations in the Stuyvesant Town property located in New York, New York.

The monitoring activities were conducted in accordance with the Interim Site Management Plan (ISMP) for Invasive Activities in and around Peter Cooper Village and Stuyvesant Town (ENSR, 2008). The ISMP was prepared to provide for environmental management at the site until a final remedy is selected and implemented. One requirement of the ISMP is to conduct annual indoor air monitoring to confirm that indoor air has not been impacted by MGP residuals identified on the site. Previous indoor air sampling has been reviewed by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) and they have determined that indoor air in the buildings has not been impacted by the MGP residuals.

The Stuyvesant Town property includes multiple apartment buildings, some of which overlay the footprint of the East 14th, East 17th, and East 19th Street Stations, which include the locations of former MGP gas holder structures. As detailed in the ISMP, the following buildings were identified for sampling.

- East 14th Street Former MGP Station
 - 615, 625, 629, 635 and 645 East 14th Street
 - 245 Avenue C
- East 17th Street Former MGP Station
 - 16 Stuyvesant Oval
- East 19th Street Former MGP Station
 - 522 and 524 East 20th Street

The purpose of this report is to describe the investigation activities, present and document the results from the sampling, and interpret their meaning. The remainder of this report is organized as follows:

- Section 2 describes investigation activities, including the sampling locations and procedures.
- Section 3 presents the analytical laboratory results and their interpretation.
- Section 4 summarizes the findings and provides recommendations.
- Section 5 lists the references cited in this report.
- Appendices provide documentation of results and data quality information.

2.0 Sampling Activities

This section describes the activities undertaken to collect data and information for the purposes of this evaluation. The following discussion identifies the sampling locations and summarizes the activities associated with a preliminary site inspection and the collection of indoor air samples.

2.1 Sampling Locations

The sampling locations were consistent with those used in previous sampling events. The sampling locations are illustrated on Figures 1 through 5.

2.2 Site Inspection

A site walk was held with AECOM and Peter Cooper Village/Stuyvesant Town Property Engineering Department staff on March 4th, 2014 to review the sampling locations and ensure that, when in place, sampling equipment would not interfere with residents and maintenance staff walking through the buildings.

NYSDOH survey questionnaire forms were completed for each location and are presented in Appendix A. Data included observations of the heating, ventilation, and air conditioning (HVAC) system, odors, and potential hydrocarbon sources. The inspection revealed that the HVAC systems of the buildings are a steam/hot air circulation design. Apartments have individually installed air conditioning window units. The Manhattan Kids Club (daycare center) located at 629 East 14th Street has a central air conditioning unit that is located in the adjacent room to the west (a sample was collected in this area). Buildings at Stuyvesant Town do not have basements and a few buildings have crawlspaces. Samples were collected above the crawlspaces at several locations.

2.3 Indoor and Ambient Air Sampling

Sampling was conducted by AECOM field staff on March 13th and March 15th, 2014. Prior to initiating sampling, a screening evaluation was conducted at each location to refine the actual positioning of the sampling point. A photoionization detector (PID) measuring in parts per billion (ppb) was used to evaluate levels of volatile organic constituents. The results from the screening analysis are included on the field sampling forms presented in Appendix A. Documentation of weather conditions, wind speed, and wind direction is also provided on the forms.

A total of 16 indoor air samples and 4 ambient air samples were collected using laboratory certified, six-liter volume Summa canisters. The canisters were equipped with flow regulators to collect integrated samples over an 8-hour period at each location. A list of the locations and samples are provided in Table 1. Photographs of each location are provided in Appendix B.

The samples were submitted to Test America Labs, Inc. (Test America) on March 13th and March 17th, 2014 via courier service and delivery to their local facility for analysis. The samples were analyzed for volatile organic compounds (VOC) by United States Environmental Protection Agency (USEPA) Method TO-15, with naphthalene and other Manufactured Gas Plant (MGP) indicator compounds requested by Con Edison added to the list of analytes. One field duplicate was collected/analyzed for quality assurance/quality control.

3.0 Presentation of Results

This section presents summaries of the laboratory results for analyses performed on ambient and indoor air samples collected at the site during the sampling event in March 2014. The results are discussed and evaluated with regard to potential intrusion of vapors related to historic MGP operations.

3.1 Site Observations

Observations of cigarette smoke, chemical storage, maintenance equipment storage, cleaning, and paint storage were noted during sampling and are documented on the field sample forms in Appendix A.

3.2 Summary of Results

3.2.1 Indoor Air

Volatile organic compounds were detected in all of the indoor air and ambient air samples at concentrations ranging from approximately $0.15 \mu\text{g}/\text{m}^3$ to $450 \mu\text{g}/\text{m}^3$. Copies of the analytical laboratory reports are provided in Appendix C.

The VOC concentrations in indoor and ambient air samples were evaluated to determine whether the constituent concentrations were consistent with “background” levels derived from National (USEPA) and New York State analyses of air samples from within typical (non-contaminated) residences [NYSDOH, 2003; EPA, 1992]. Discussions of the results for VOC exceeding the NYSDOH 90th percentile are provided below.

3.2.1.1 Volatile Organic Compounds Present at Concentrations Greater Than Background Levels

Table 2 provides a summary of results for those locations where one or more volatile organic constituents were detected. Constituent exceedances of the established background levels (90th percentile) were limited to the following locations:

- **615 East 14th Street**
 - Above crawlspace (IA1-E14-031314)
 - Tetrachloroethene (PCE): $3.6 \mu\text{g}/\text{m}^3$
- **625 East 14th Street**
 - Bottom of ramp, at door to daycare room (IA3-E14-031314)
 - 4-Methyl-2-Pentanone: $4.3 \mu\text{g}/\text{m}^3$
- **245 Avenue C**
 - Stairwell (IA7-E14-031314)
 - Chloroform: $1.8 \mu\text{g}/\text{m}^3$

- **16 South Oval**
 - Above crawlspace (IA1-E17-031314)
 - 4-Methyl-2-Pentanone: 4.0 J $\mu\text{g}/\text{m}^3$
- **522 East 20th Street**
 - Above Crawlspace (IA1-E19-031314)
 - 1,4-Dichlorobenzene: 1.5 $\mu\text{g}/\text{m}^3$, Chloroethane: 0.30 J $\mu\text{g}/\text{m}^3$, Chloroform: 2.7 $\mu\text{g}/\text{m}^3$
- **524 East 20th Street**
 - Stairwell (IA2-E19-031314)
 - 1,4-dichlorobenzene: 1.5 $\mu\text{g}/\text{m}^3$
- **Ambient - (East 14th, East 17th, and East 19th Street Sites)**
 - 625 East 14th Street (AMB-4031414)
 - Tetrachloroethene (PCE): 3.7 $\mu\text{g}/\text{m}^3$
 - 629 East 14th Street (Sample-4-AMBIENT-031514)
 - 4-Methyl-2-Pentanone: 7.2 $\mu\text{g}/\text{m}^3$

The results are generally similar to the data from the previous program in 2012, with no MGP constituents detected at levels greater than the 90th percentile background levels. However, the 2014 results indicated that fewer non-MGP compounds were detected at levels greater than background levels than were observed in 2012.

3.3 Quality Control

To meet the data quality objectives for this project, NYSDEC Analytical Service Protocols (ASP) were used with Category B deliverables [NYSDEC, 2000]. This analysis was completed by Test America. Test America is currently listed with the NYSDOH Environmental Accreditation Program and has current Contract Laboratory Program (CLP) certification for all analyte categories. The analytical data packages were reviewed by an AECOM chemist who prepared a Data Usability Study Report (DUSR). As part of the data review process, analytical data qualifiers were added or modified where necessary in accordance with quality control and quality assurance protocols. The DUSR is provided in Appendix D.

4.0 Conclusions and Recommendations

The results demonstrate that indoor air concentrations of those VOCs potentially associated with MGP residuals are consistent with background levels established by NYSDOH. Several non-MGP compounds were observed at levels greater than established background levels in seven of the nine buildings sampled, at a total of seven locations, stairwells and areas directly above crawlspaces, and one ambient location. These compounds were chlorinated constituents and a solvent that are frequently associated with commercial cleaning products. When compared to data from previous programs, the results of this sampling event indicate a reduction in the number of constituents detected as well as a general decrease in their concentrations.

5.0 References

ENSR, 2008. Interim Site Management Plan for Invasive Activities in and around Peter Cooper Village and Stuyvesant Town, Manhattan, New York.

NYSDEC, 2000. NYSDEC Analytical Services Protocol, 1995, revised June, 2000.

NYSDOH, 2003. Background Indoor/Outdoor Air Levels of Volatile Organic Compounds in Homes Sampled by the New York State Department of Health, 1989-1996, New York State Department of Health, Bureau of Toxic Substance Assessment, Interim Draft, January 2003.

RETEC, 2004. E. 14th Works and E. 17th and E. 19th Street Stations; Report of Evaluation of Indoor Air and Soil Gas Sampling, January 23, 2004.

RETEC, 2007. Evaluation of Indoor Air and Crawlspace Sampling –Manhattan Kids Club Stuyvesant Daycare Center, October 1, 2007.

USEPA, 1992. Assessing Potential Indoor Air Impacts for Superfund Sites. United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina. September 1992.

Tables

Table 1
Indoor and Ambient Air Sample Locations
East 14th, East 17th, and East 19th Street Former Station Sites
Stuyvesant Town Property
New York, New York

Address	Location ID	Sample ID	Sample Location	Date
522 East 20 th Street	AMB-1	AMB-1-031314	Outdoor air	3/13/2014
East 14 th Street and Avenue C	AMB-2	AMB-2-031314	Outdoor air	3/13/2014
524 East 20 th Street	AMB-3	AMB-3-031314	Outdoor air	3/13/2014
625 East 14 th Street	AMB-4	AMB-4-031314	Outdoor air	3/13/2014
615 East 14 th Street	IA1E14	IA1-E14-031314	Above crawlspace	3/13/2014
615 East 14 th Street	IA2E14	IA2-E14-031314	Stairwell	3/13/2014
625 East 14 th Street	IA3E14	IA3-E14-031314	At bottom of ramp, at door to daycare room	3/13/2014
635 East 14 th Street	IA4E14	IA4-E14-031314	Stairwell	3/13/2014
645 East 14 th Street	IA5E14	IA5-E14-031314	Stairwell	3/13/2014
645 East 14 th Street	IA6E14	IA6-E14-031314	Above crawlspace	3/13/2014
245 Avenue C	IA7E14	IA7-E14-031314	Stairwell	3/13/2014
16 Stuyvesant Oval	IA1E17	IA1-E17-031314	Above crawlspace	3/13/2014
16 Stuyvesant Oval	IA1FDE17	IA1FD-E17-031314	Above crawlspace, field duplicate	3/13/2014
16 Stuyvesant Oval	IA2E17	IA2-E17-021314	Stairwell, at top of first step	3/13/2014
522 East 20 th Street	IA1E19	IA1-E19-031314	Above crawlspace	3/13/2014
524 East 20 th Street	IA2E19	IA2-E19-031314	Stairwell	3/13/2014
629 East 14 th Street	Sample 1 - crawlspace	Sample 1-crawlspace-031514	Above crawlspace	3/15/2014
629 East 14 th Street	Sample 2 - Room #4	Sample 2-Room #4-031514	Middle of Room #4	3/15/2014
629 East 14 th Street	Sample 3 - Room #2	Sample 3-Room #2-031314	Middle of Room #2	3/15/2014
629 East 14 th Street	Sample 4 - Ambient	Sample 4-Ambient-031314	Between security entrance gate and first door to entrance	3/15/2014
629 East 14 th Street	Sample 5 - Room #11	Sample 5-Room #11-031314	Middle of Room #11	3/15/2014

Notes:

Locations based on previous sample locations designated by AECOM 2009, 2010, 2011, and 2012.

Indoor Air daycare (Manhattan Kids Club located at 629 E. 14th Street) sample locations based on previous samples locations designated by AECOM 2009.

FD - Field Duplicate

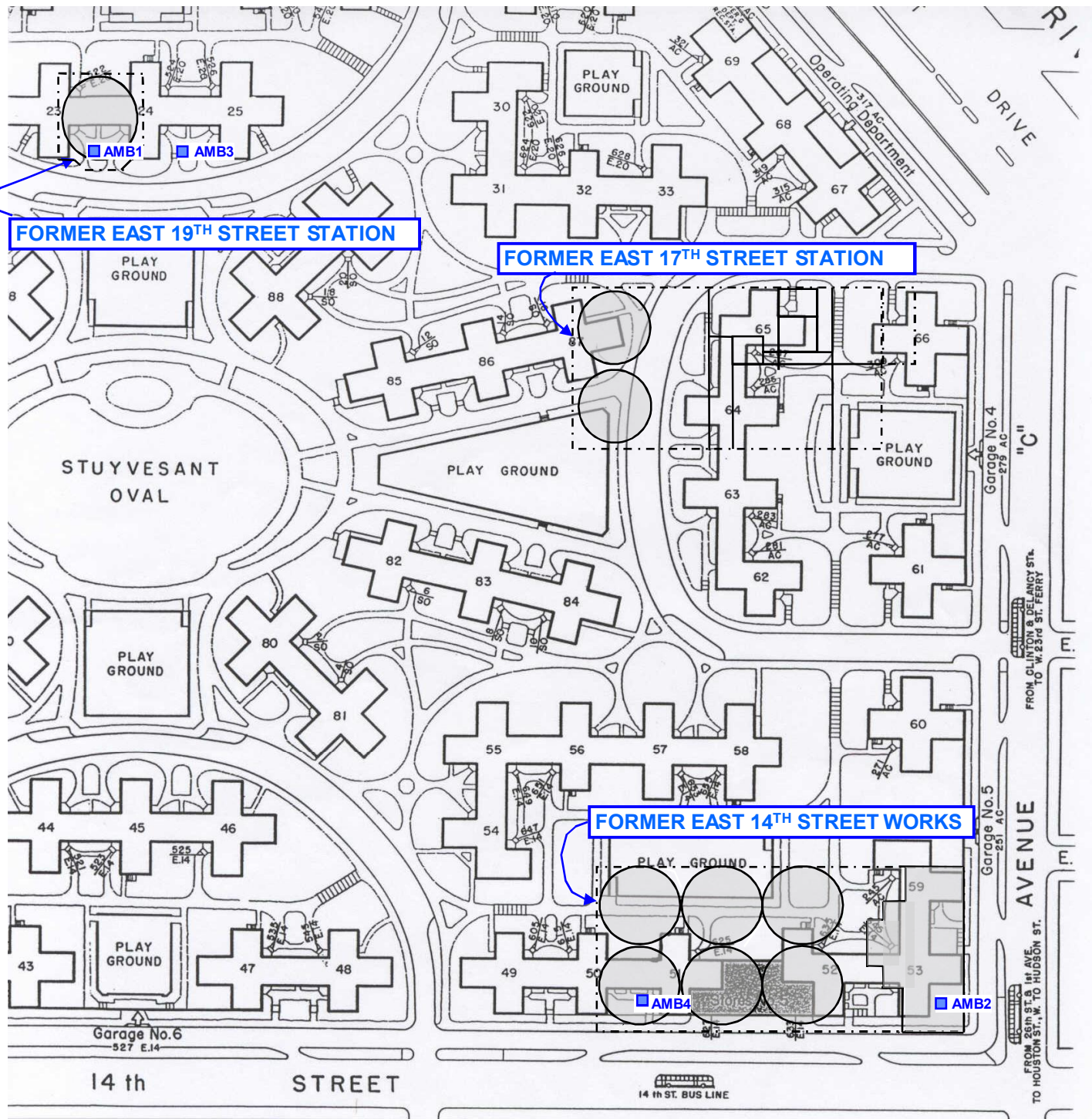
IA - Indoor Air

AMB - Ambient Air

Ambient locations AMB-1, AMB-2, AMB-3, and AMB-4 - upwind and downwind documented during sampling event

Ambient location, Sample 4-Ambient placed outside of daycare within secured entrance way.

Figures

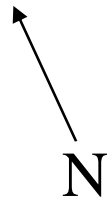


STREET ADDRESS LEGEND

- E.14 = East 14th STREET
- E.20 = East 20th STREET
- AC = AVENUE "C"
- 1A = FIRST AVENUE
- SO = STUYVESANT OVAL

LEGEND:

- FORMER MGP STRUCTURE
- FORMER SITE BOUNDARY
- AMB# AMBIENT AIR SAMPLING LOCATION



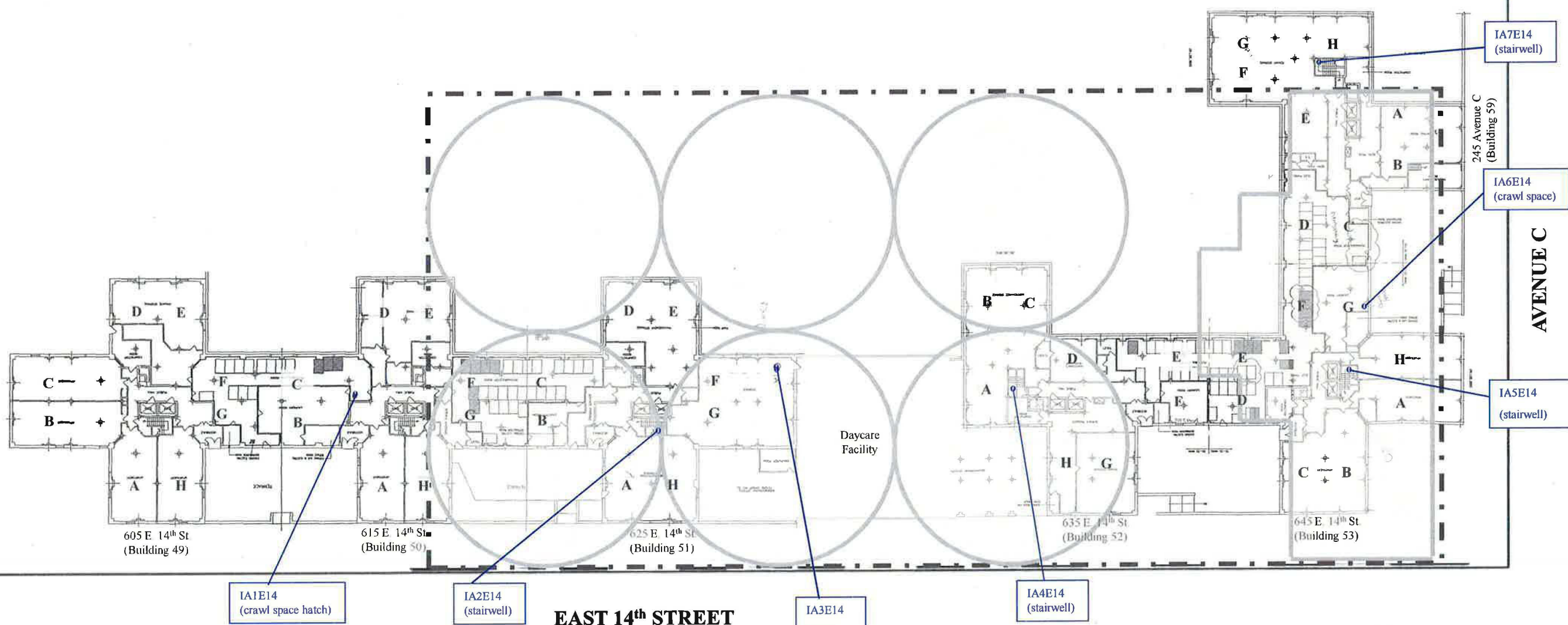
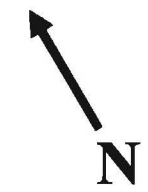
SCALE: NOT TO SCALE



CONSOLIDATED EDISON NEW YORK, NEW YORK 60315649		STUYVESANT TOWN AMBIENT AIR SAMPLING LOCATIONS	
DATE: 03/31/2014	DRWN: JNE	FIGURE 1	

LEGEND

-  FORMER SITE BOUNDARY
-  FORMER MGP STRUCTURES
-  IA # INDOOR AIR SAMPLING LOCATION

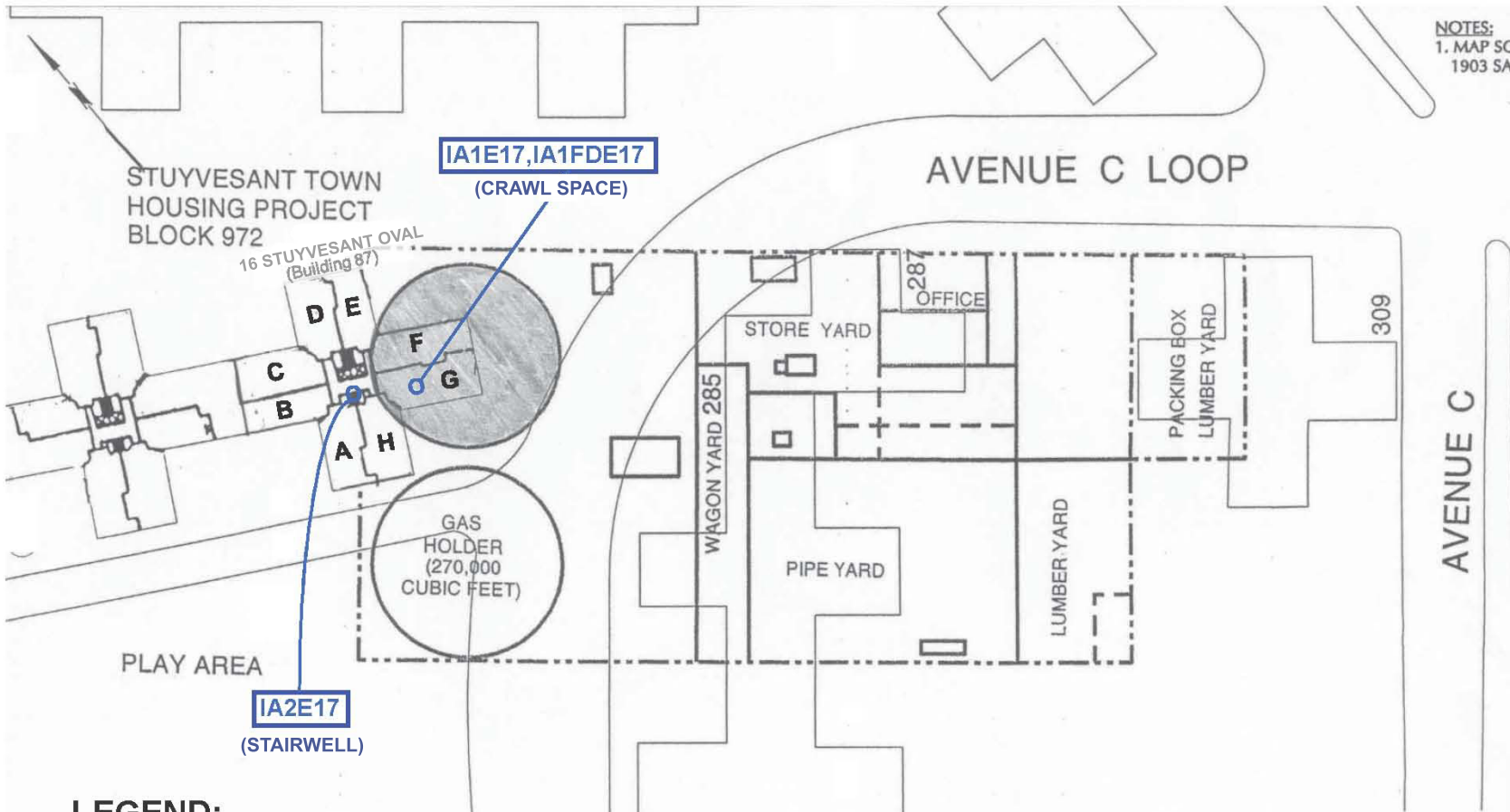


SCALE: NOT TO SCALE

CONSOLIDATED EDISON NEW YORK, NEW YORK 60315649		SAMPLE LOCATIONS AT FORMER EAST 14th STREET STATION STUYVESANT TOWN	
DATE: 04/01/14	DRWN: AB	Figure 2	

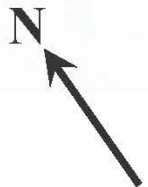


NOTES:
 1. MAP SOURCE:
 1903 SANBORN MAP.



LEGEND:

- FORMER SITE BOUNDARY
- ▭ FORMER MGP STRUCTURE
- IA # INDOOR AIR SAMPLING LOCATION

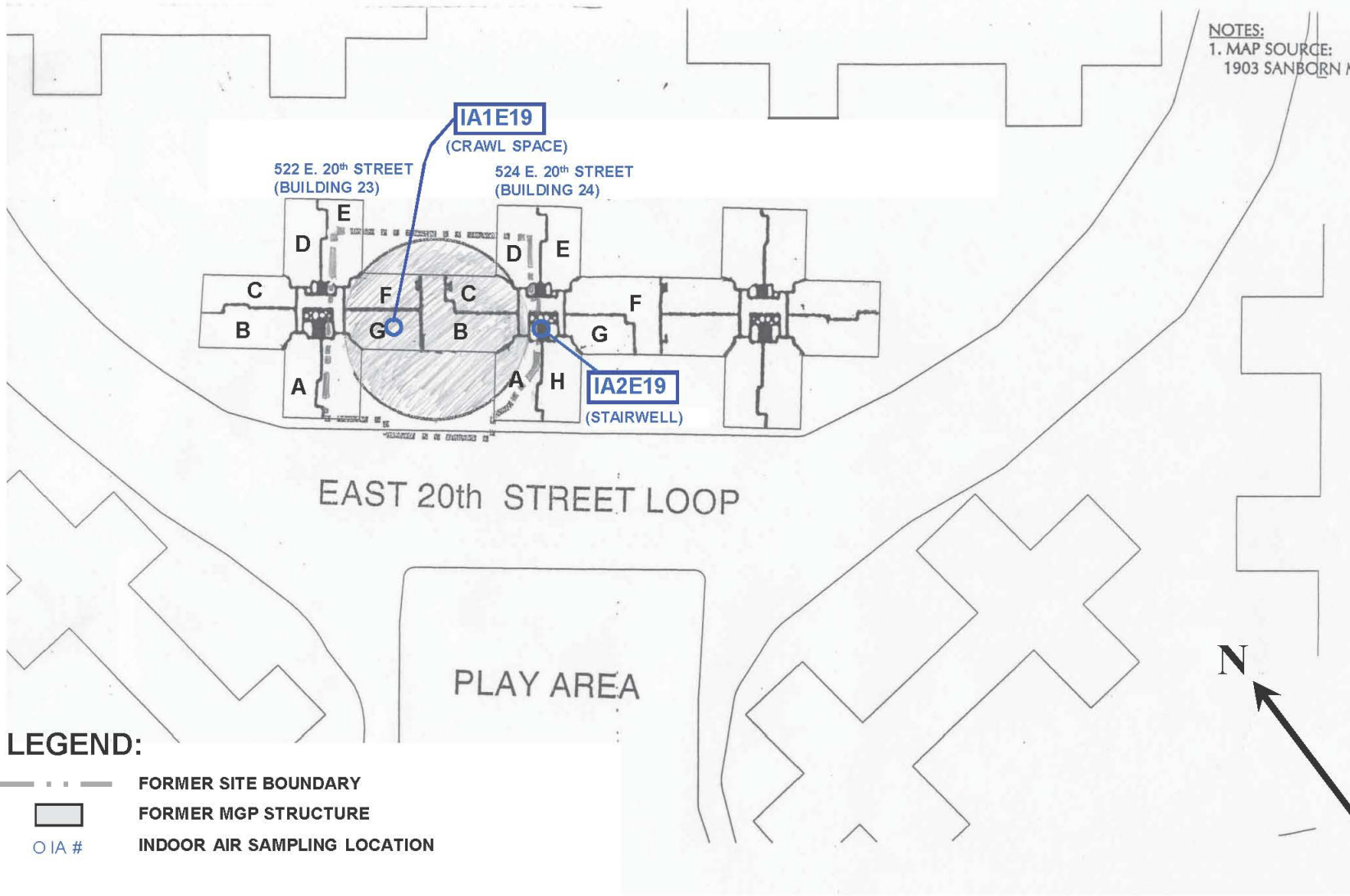


SCALE: NOT TO SCALE



CONSOLIDATED EDISON NEW YORK, NEW YORK 60315649		SAMPLE LOCATIONS AT FORMER 17TH STREET STATION STUYVESANT TOWN	
DATE 04/01/14	DRWN: AB	FIGURE 3	

NOTES:
1. MAP SOURCE:
1903 SANBORN MAP.



LEGEND:

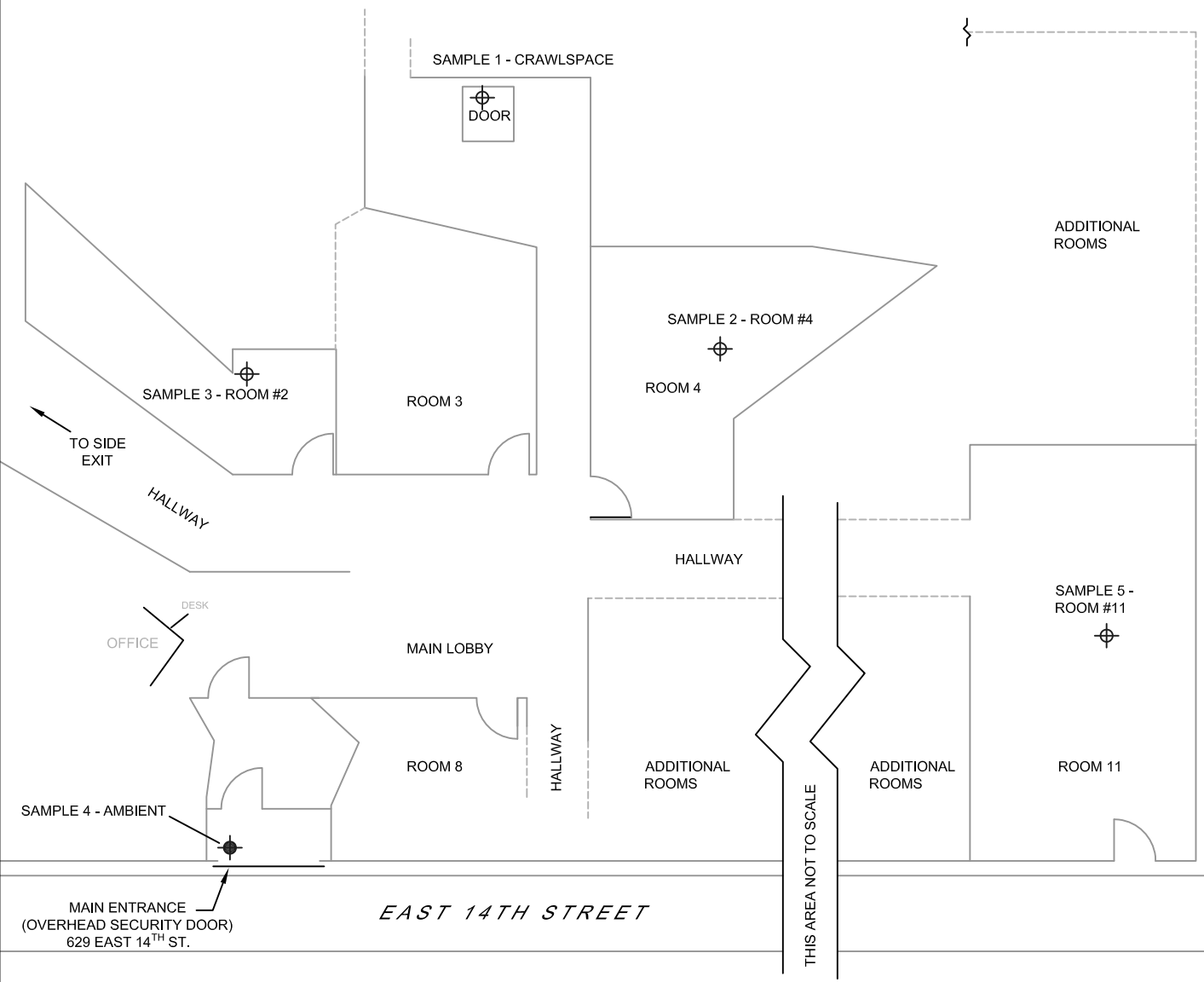
- FORMER SITE BOUNDARY
- ▭ FORMER MGP STRUCTURE
- IA # INDOOR AIR SAMPLING LOCATION

SCALE: NOT TO SCALE



CONSOLIDATED EDISON NEW YORK, NEW YORK 60315649		SAMPLE LOCATIONS AT FORMER EAST 19 TH STREET STATION STUYVESANT TOWN	
DATE: 04/01/14	DRWN: AB		FIGURE 4

File: Y:\Projects\Miscellaneous\60136641-607\01869-164-C-01_update_2014_04_01.dwg Layout: Daycare Air Samples User: buynevicha Plotted: Apr 01, 2014 - 10:36am Xref's:



EAST 14TH STREET

MAIN ENTRANCE
(OVERHEAD SECURITY DOOR)
629 EAST 14TH ST.

LOCATION

- - - - - APPROXIMATE LOCATION
- ⌣ DOOR

- AMBIENT AIR SAMPLE LOCATION
- ⊕ INDOOR AIR SAMPLE LOCATION



CONSOLIDATED EDISON STUYVESANT TOWN 60315649		INDOOR, CRAWLSPACE, AND AMBIENT AIR SAMPLING STUYVESANT TOWN DAYCARE CENTER	
DATE: 04/01/14	DRWN: AB		FIGURE 5

Appendix A

AECOM Field Sampling Forms and NYSDOH Survey Questionnaire

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/13/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 16 Stuyvestant Oval

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes/ No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

16 St/Vesant oval



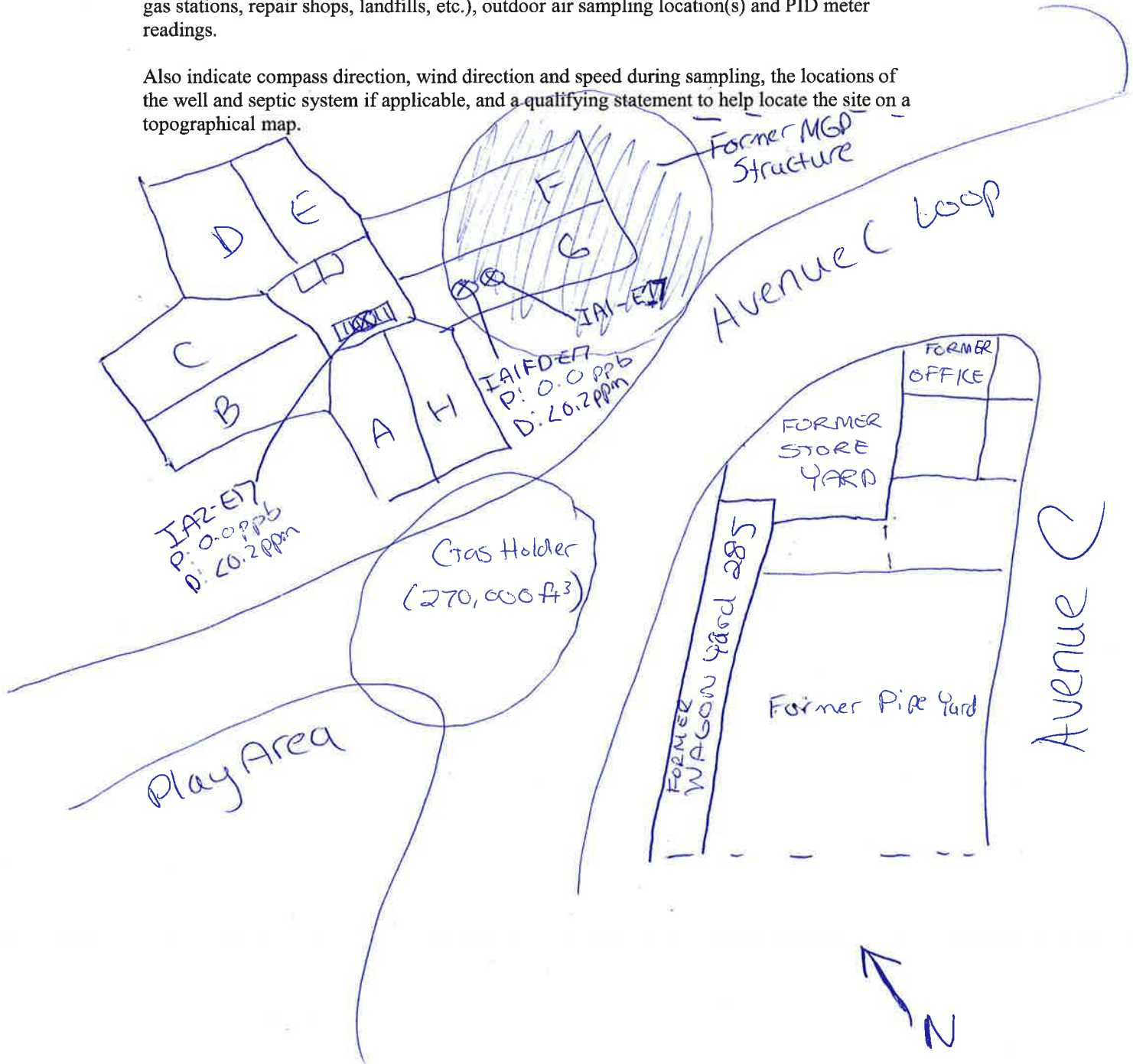
- Not to Scale
 - P = PID
 - D = Dräger
- All samples @ ground level

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



IAZ-ET7
P: 0.0 ppb
D: 20.2 ppm

IAI-FDE7
P: 0.0 ppb
D: 20.2 ppm

Gas Holder
(270,000 ft³)

Former MGD
Structure

Avenue C Loop

Former
WAGON YARD 285

FORMER
STORE
YARD

Former Pipe Yard

Avenue C



- Not to Scale
- P: PID
- D: Dräger
- All samples @ ground level

Household Products Inventory

Occupant / residence Multiple

Investigator: Jennifer Christoffel

Date: 03/13/2014

Product description (dispenser, size, manufacturer)

VOC Ingredients

IA1-E17/IA1FD-E17	
Lift Off – Spray Paint Graffiti Remover, 22 oz., Molsenbocker	See photo and SDS
Original Krud Kutter Concentrated Cleaner/Degreaser Stain Remover, 32 fl. oz	See photo and SDS
Precision Electronics Cleaner, 5.5 oz., Radio Shack	Isohexane-Cas #107-83-5. Diflouroethane-Cas #75-37-6, Ethanol-Cas #64-17-6
Antistatic Plexus Plastic Cleaner Protectant and Polish, 7 oz.	See Photo and SDS
CRO-Heavy Duty Silicone-Multiuse Silicone Lubricant	Acetone-Cas #67-64-1, Heptane isomers-Cas #142-82-5, Liquefied Petroleum Gas-Cas #68476-86-8, See Photo or SDS for further information
Dirty Jobs Heavy Duty Multi-surface-fresh citrus, 32 fl. oz	See Photo and SDS
Supreme Silicone-30 Minute Rain Ready-Extra Flex, GE	See Photo and SDS
WD-40 (One (1) 1 gallon, One (1) 8 oz, and one (1) 1.3 oz)	See SDS
Windex, 32 fl. oz	See SDS
IA2-E17 – NONE	NONE

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
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This form must be completed for each residence involved in indoor air testing.

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Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 245 Avenue C

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes / No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

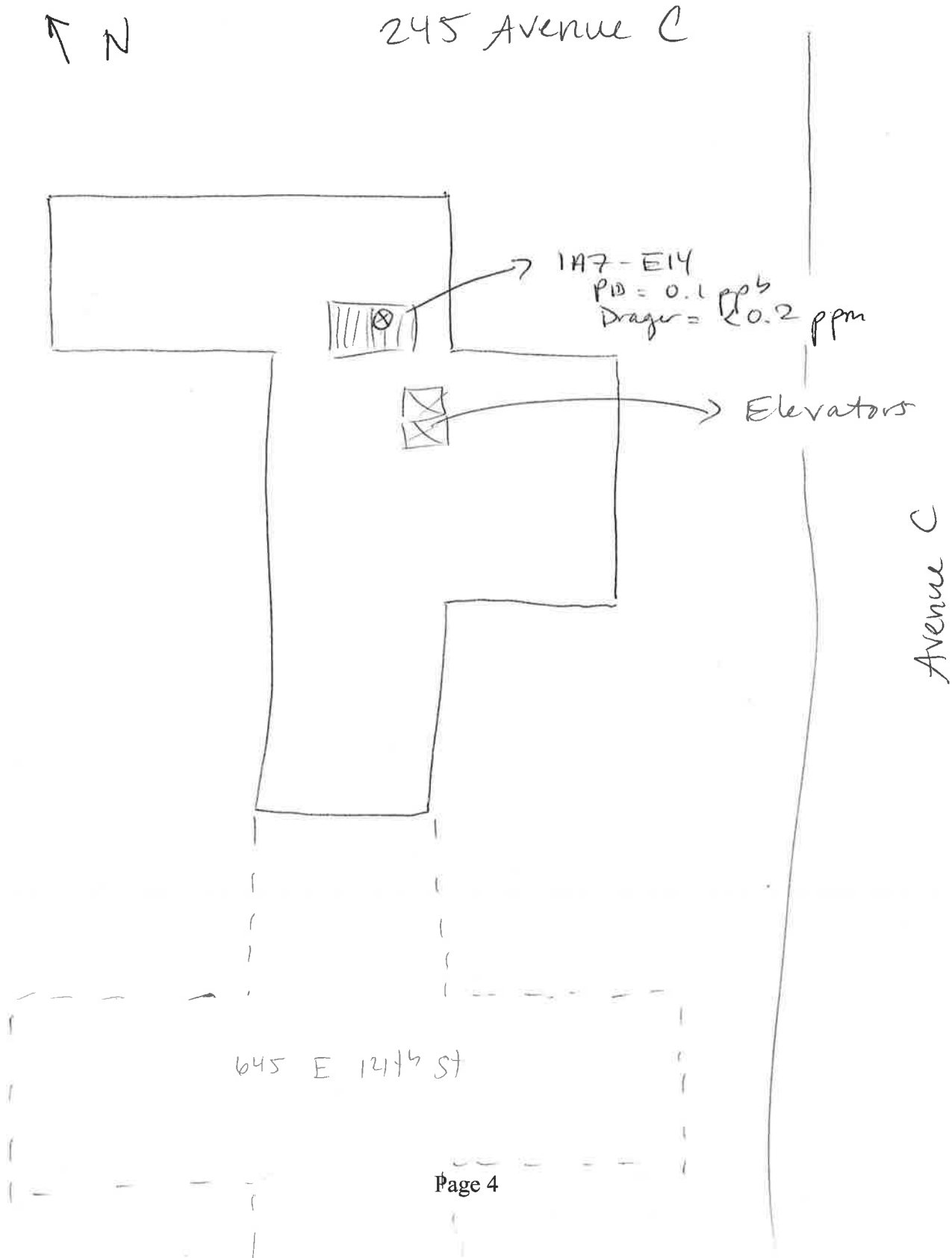
Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

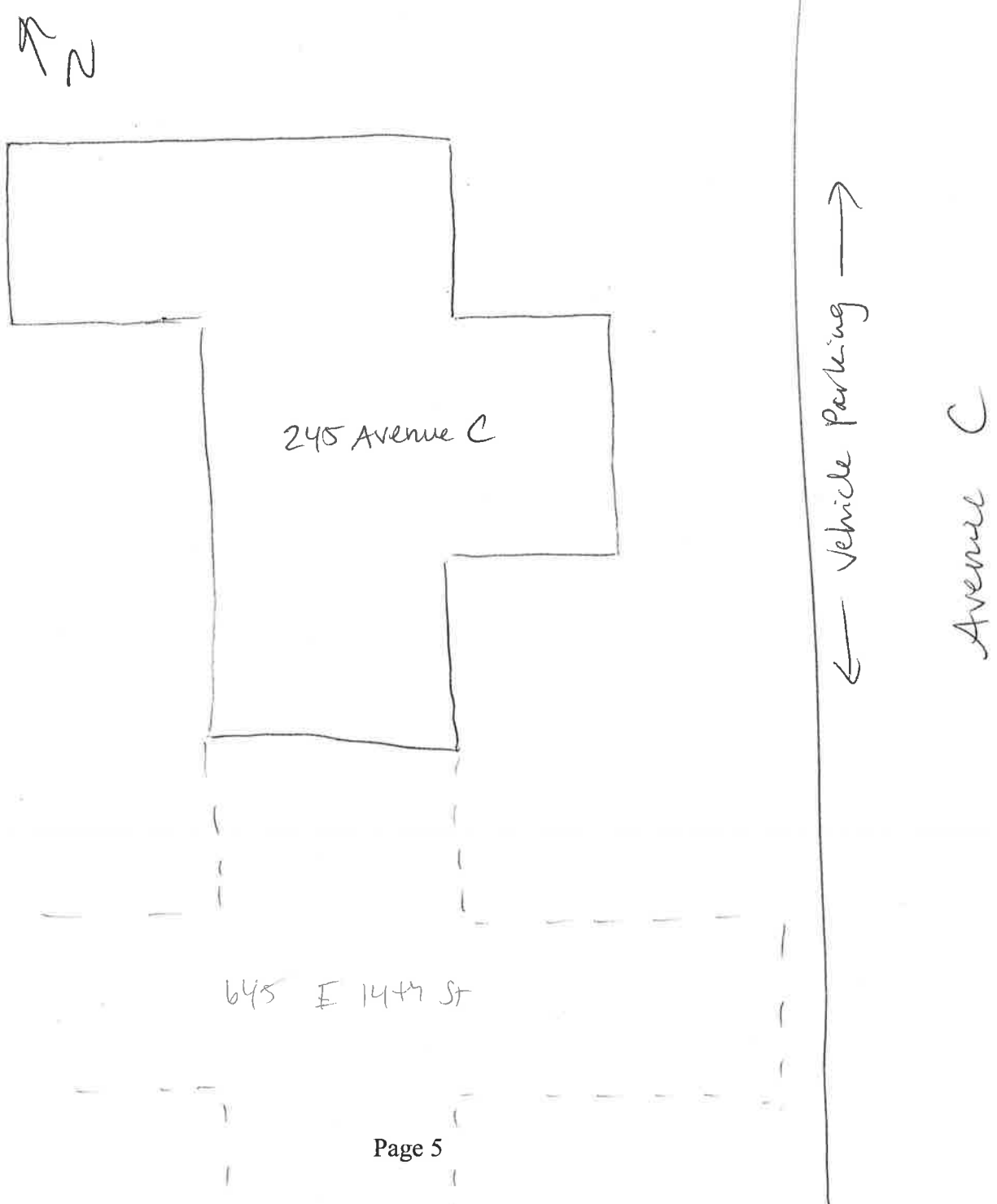


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple

Investigator: Sara Meissner Date: 03/13/2014

Product description (dispenser, size, manufacturer)

VOC Ingredients

Product description (dispenser, size, manufacturer)	VOC Ingredients
IA7-E14 – NONE	NONE

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/13/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 522 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes / No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

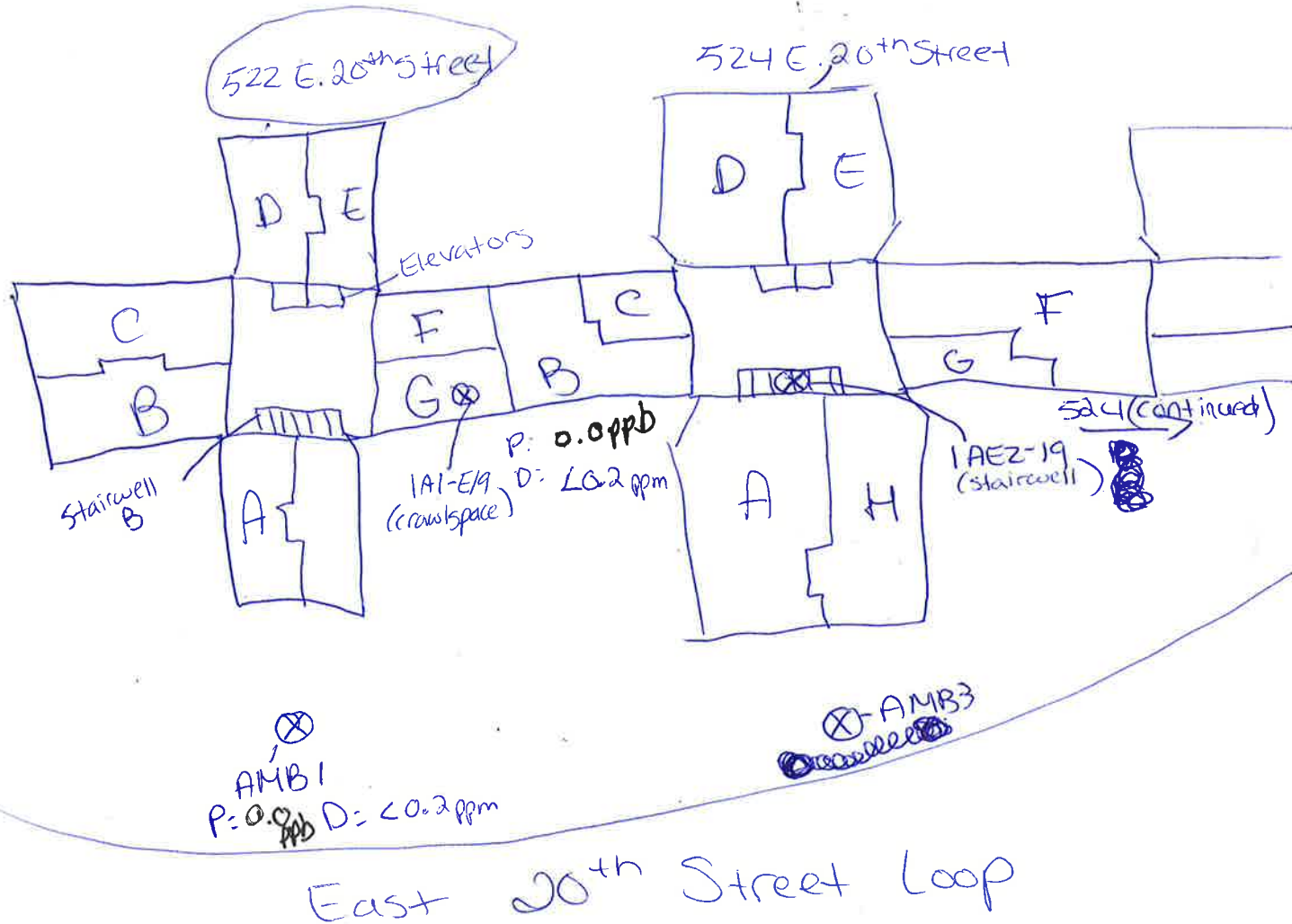
Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



- ↖ N
- Not to scale
 - P: PID
 - D: Dräger
 - All samples @ ground level

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple

Investigator: Jennifer Christoffel Date: 03/13/2014

Product description (dispenser, size, manufacturer)

VOC Ingredients

Product description (dispenser, size, manufacturer)	VOC Ingredients
IA1-E19 – NONE	NONE
AMB-1 – NONE	NONE

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jennifer Christoffel Date Prepared 3/13/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 524 East 20th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes / No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

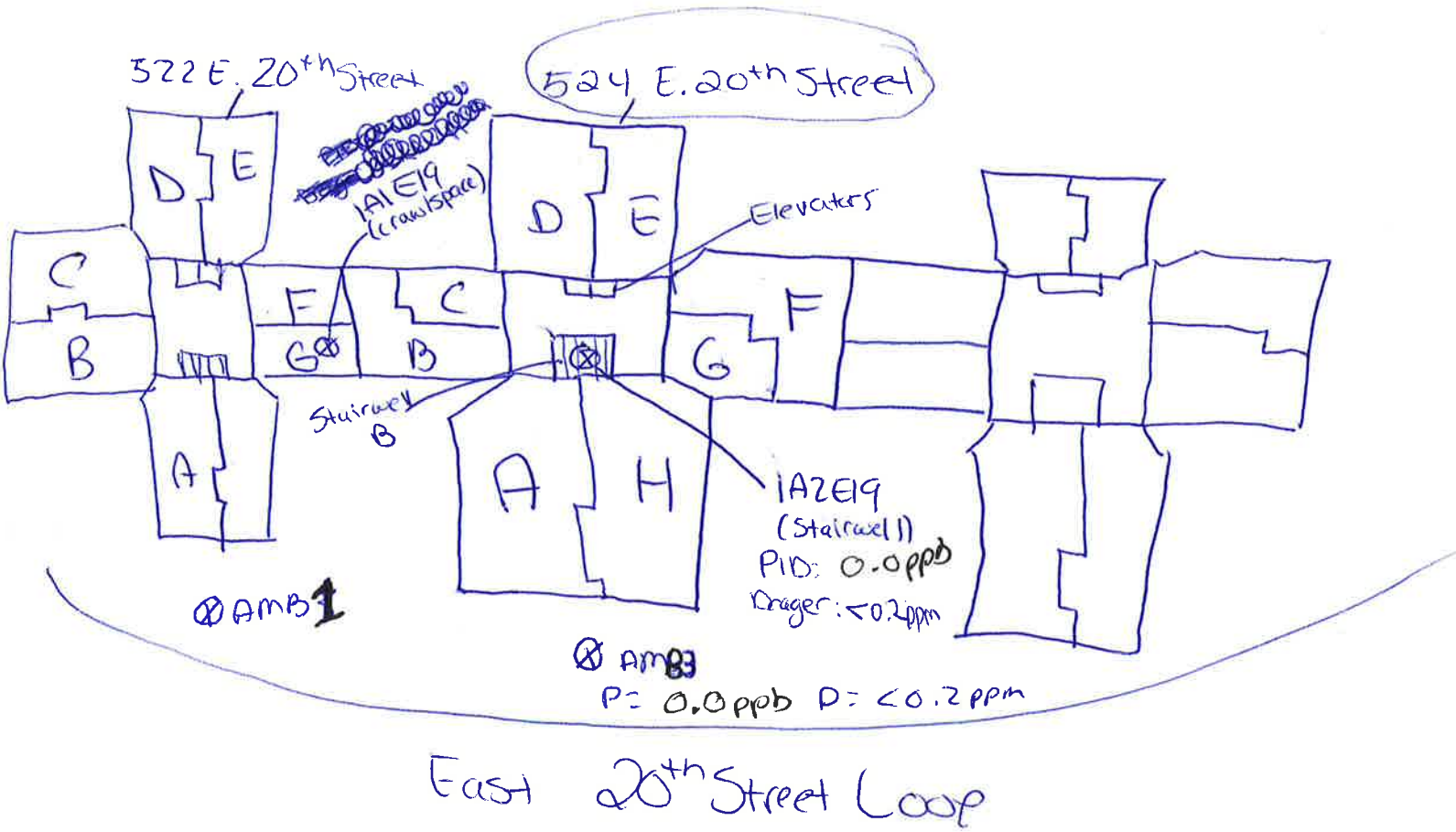
OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

524 E. 20th Street

SAMPLES
IAZEI9
AMB-1



- ↖ N
- Not to scale
 - P = PID
 - D = Drager
 - All samples @ ground level

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple

Investigator: Jennifer Christoffel Date: 03/13/2014

Product description (dispenser, size, manufacturer)

VOC Ingredients

Product description (dispenser, size, manufacturer)	VOC Ingredients
IA2-E19 – NONE	NONE
AMB-3	NONE

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/13/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 615 East 14th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes / No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

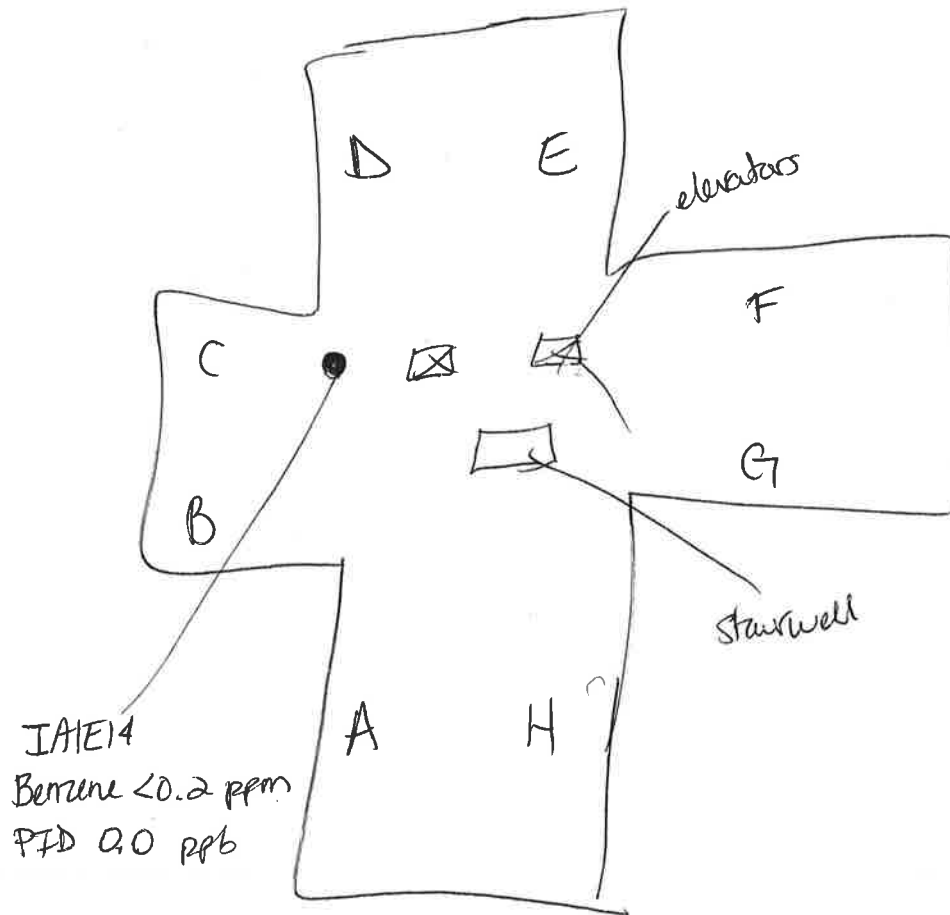
Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.



* Not to scale

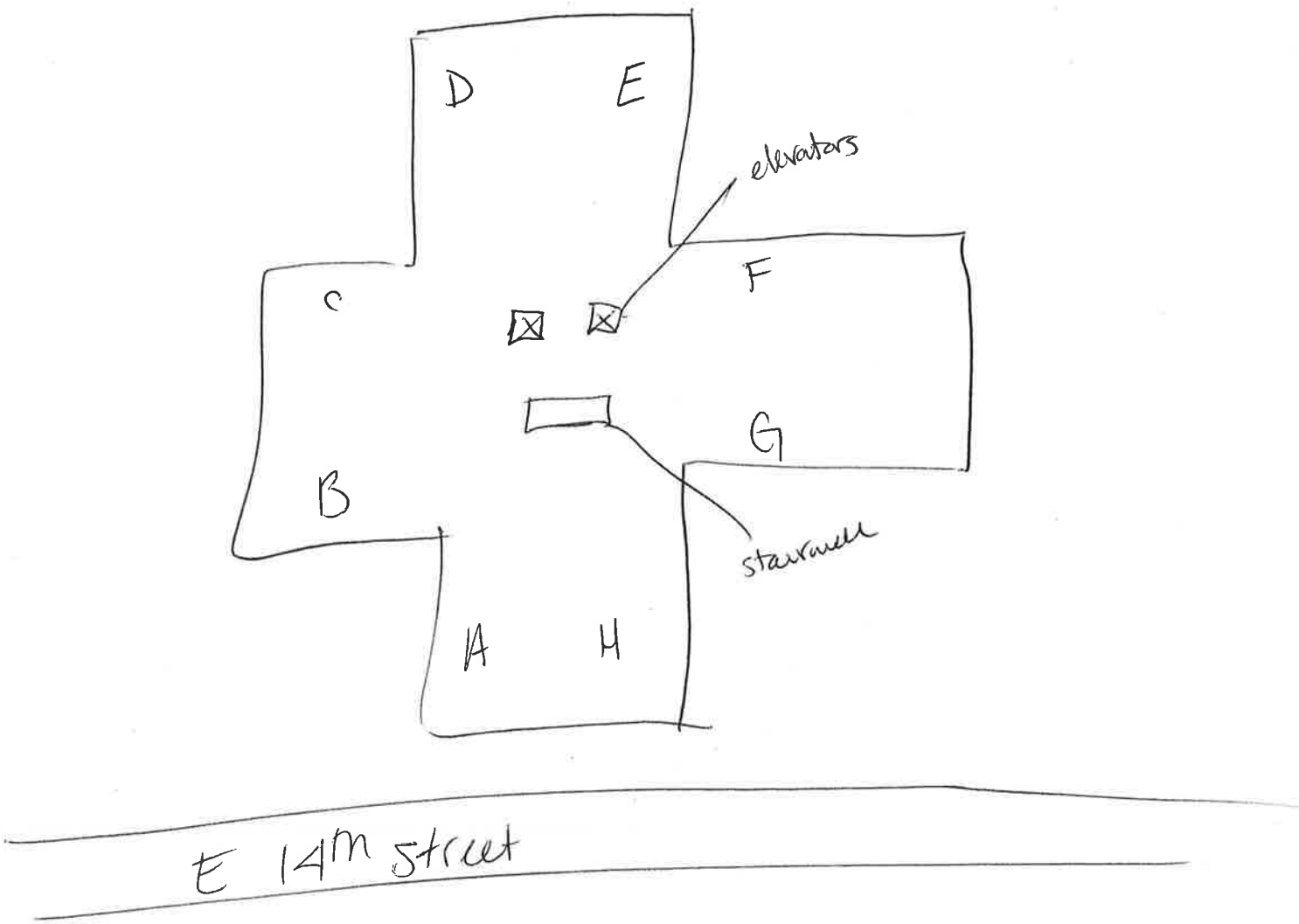


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple

Investigator: Kristen Barbour Date: 03/13/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients
IA1-E14 – NONE	NONE

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kristen Barbour Date Prepared 3/13/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 625 East 14th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes/ No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

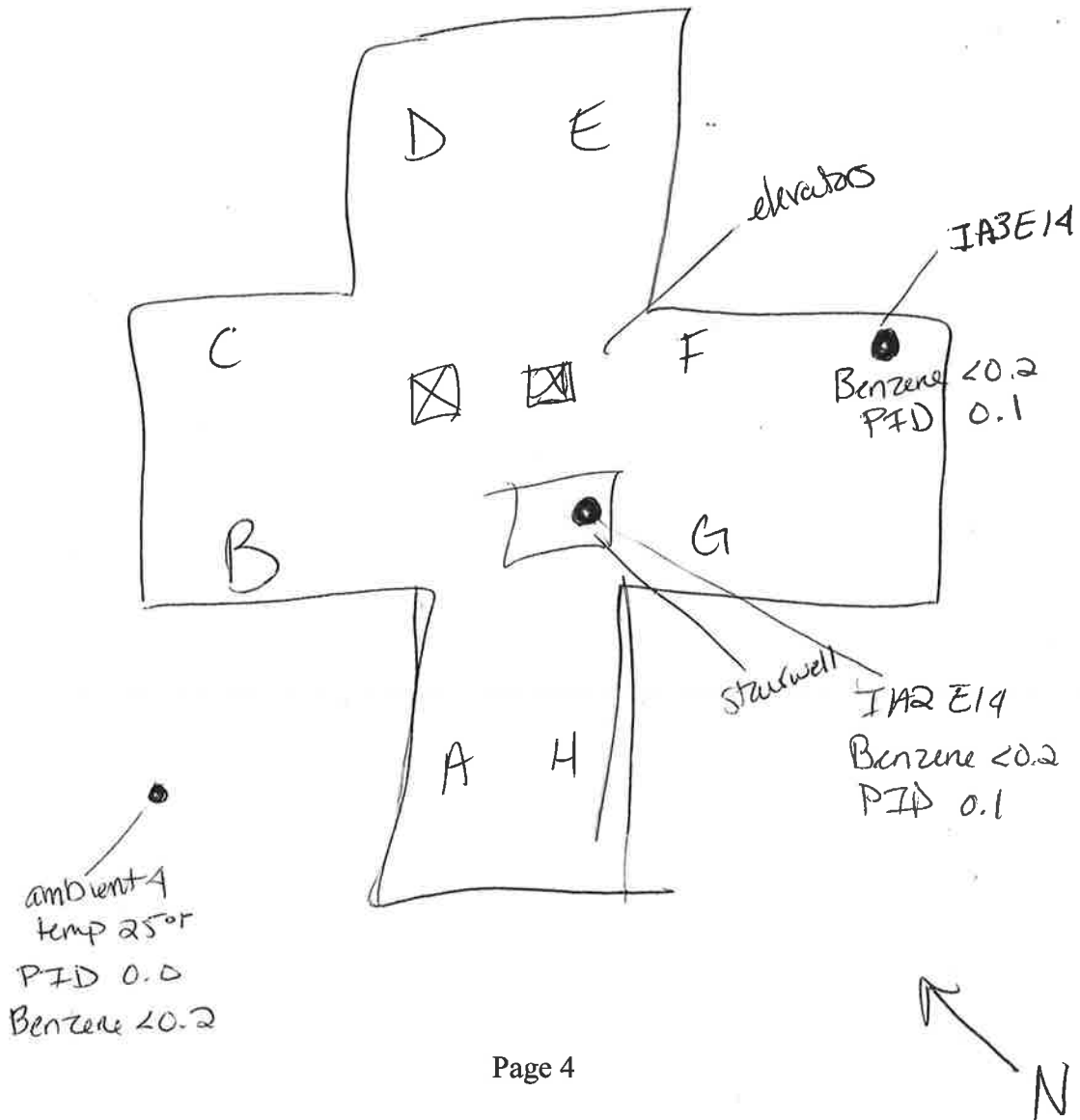
Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

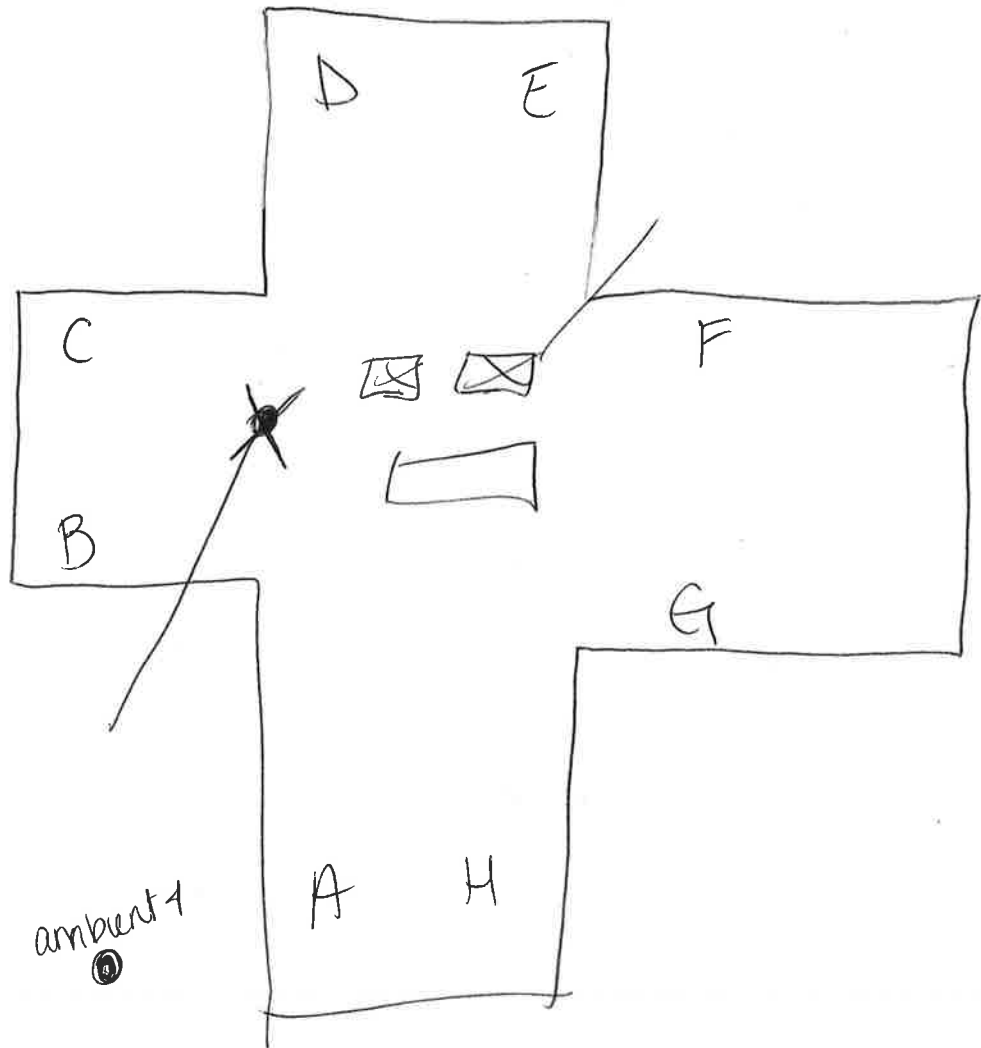


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple

Investigator: Kristen Barbour Date: 03/13/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients
IA2-E14 – NONE	NONE
IA3-E14 – NONE	NONE

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jessica Ehlen Date Prepared 3/15/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 629 East 14th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House Units

Number of floors 1

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes/ No

How air tight is the building? Pretty air tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply):

1. Full basement, crawl space, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished _____
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? Unknown
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location _____
5. Are there air distribution ducts present? Yes/ No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

Sample 1 - crawlspace
PID = 0.1 ppb
Benzene = 20.2 ppm

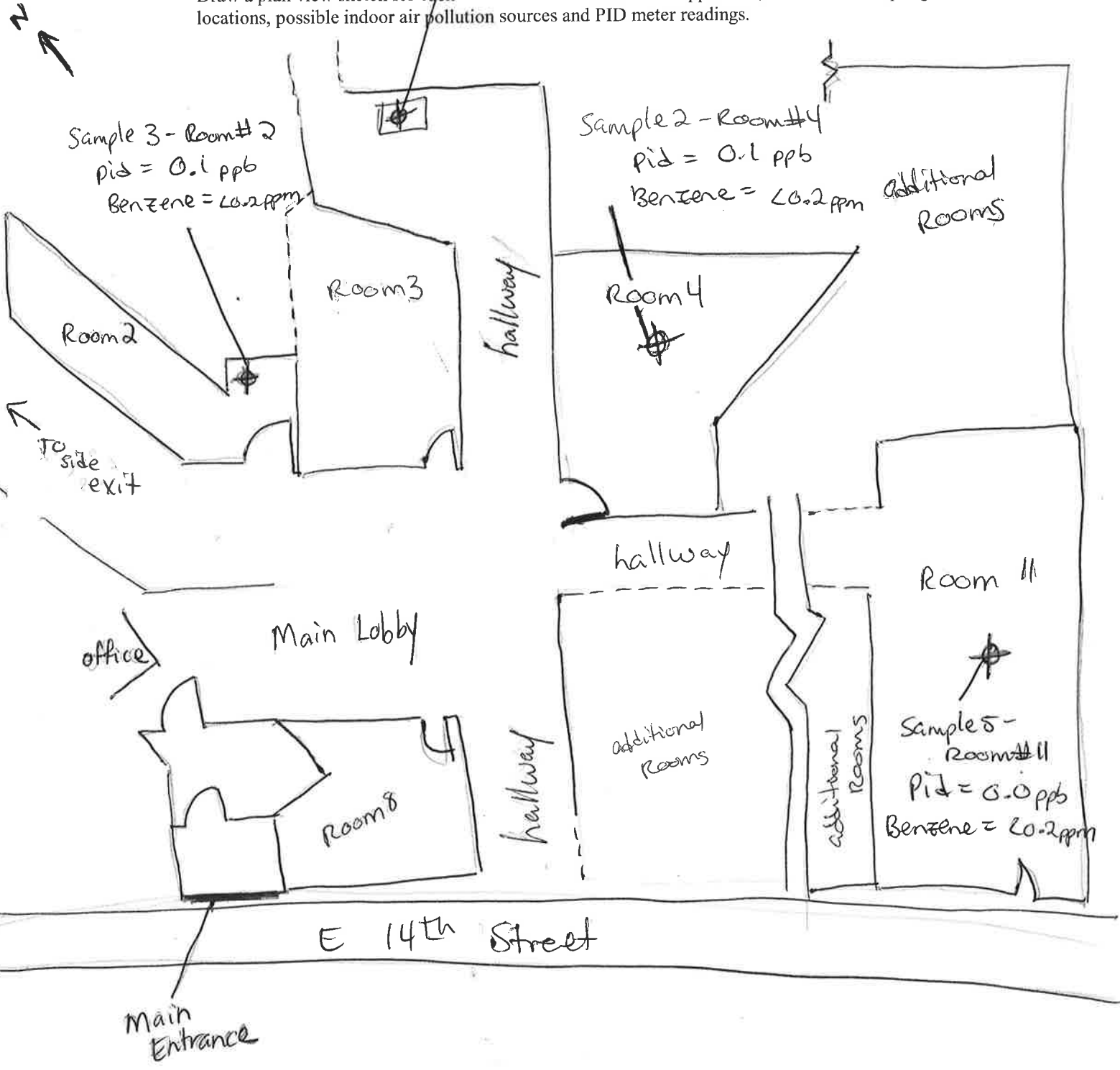
Sample 3 - Room # 2
PID = 0.1 ppb
Benzene = 20.2 ppm

Sample 2 - Room # 4
PID = 0.1 ppb
Benzene = 20.2 ppm

Additional Rooms

Room 11

Sample 5 - Room # 11
PID = 0.0 ppb
Benzene = 20.2 ppm



⊗ Drawing not to scale

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Sample 4 - Ambient
pid = 0.0 ppb
Benzene = 10.2 ppm

* Drawing is not to scale.

Household Products Inventory

Occupant / residence Multiple

Investigator: Jessica Ehlen

Date: 3/15/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients	Quantity
Sample 1 – NONE	NONE	0
Sample 2 – Room 4		
Washable School Glue-All Purpose Glue Non-Toxic, 128 oz, Colorations	See SDS	2
Coloration Markers-various colors	See SDS	~100
Glue Stick, 0.88 oz, Colorations	See SDS	12
Tacky Glue, 4 oz, Colorations	See SDS	2
Washable Clear School Glue, 5 oz, Elmers	See SDS	1
8 Washable Water Colors, Colorations	See SDS	14
Soft Soap –Coconut & Warm Ginger, 7.5 oz	See SDS	1
Clorox – Anywhere Hard Surface Daily Sanitizing Spray, 22 oz	See SDS	3
Comet Cleaner with Bleach, 32 oz	See SDS	1
Sample 3 – Room 2		
80-count Tender Touch Baby Wipes-Unscented	See SDS	2
Clorox – Anywhere Hard Surface, 22 oz	See SDS	1
Green Works - Clorox Glass and Surface Cleaner, 32 oz,	See SDS	2
Sharpie Permanent Marker (fine point), various colors	See SDS	2
Sharpie Accent Highlighter, Pink	See SDS	1
Markers – Various Colors, Coloration	See SDS	~50

Household Products Inventory

Occupant / residence Multiple

Investigator: Jessica Ehlen

Date: 3/15/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients	Quantity
Sample 4 – Ambient – NONE	NONE	0
Sample 5 – Room 11		
Original Tacky Glue – All Purpose, 1 gallon, Aleene’s	See SDS	1
Washable School Glue, 1 gallon, Colorations	See SDS	2
Sensitive Baby Wipes-Unscented, 80 count, Baby Darlings	See SDS	6
Lysol Disinfecting Spray	See photo and SDS	1
Comet Cleaner with Bleach, 32 oz	See SDS	1
Clorox Anywhere Spray, 22 oz	See SDS	1
Washable Markers of Various Colors, Crayola	See SDS	~300
Tacky Glue, Colorations	See SDS	1
Markers of Various Colors, Sharpie	See SDS	~50
Basics Acrylic Color – Unbleached Titanium, 4 oz, Liquitex	See SDS	1
Basic Acrylic Color – Black, 237 ml, Liquitex	See SDS	1
Basics Acrylic Color – Titanium White, 8.45 oz, Liquitex	See SDS	1
Advanced Hand Sanitizer – Refreshing Gel, 33.8 oz, Purrel	See SDS	1
Magenta Simply Washable Tempera, 128 oz, Colorations	See SDS	1
Activity Paint Red, 128 oz, Colorations	See SDS	1
Washable Glitter Paint – Silver, 128 oz, Colorations	See SDS	1

Household Products Inventory

Occupant / residence Multiple

Investigator: Jessica Ehlen

Date: 3/15/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients	Quantity
Colors Like Me/Simply Washable Tempera – Various Colors, 16 oz, Colorations	See SDS	45
Cleaning Products – Locked in Kitchen Closet	Unknown	Unknown

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/13/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 635 East 14th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes / No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

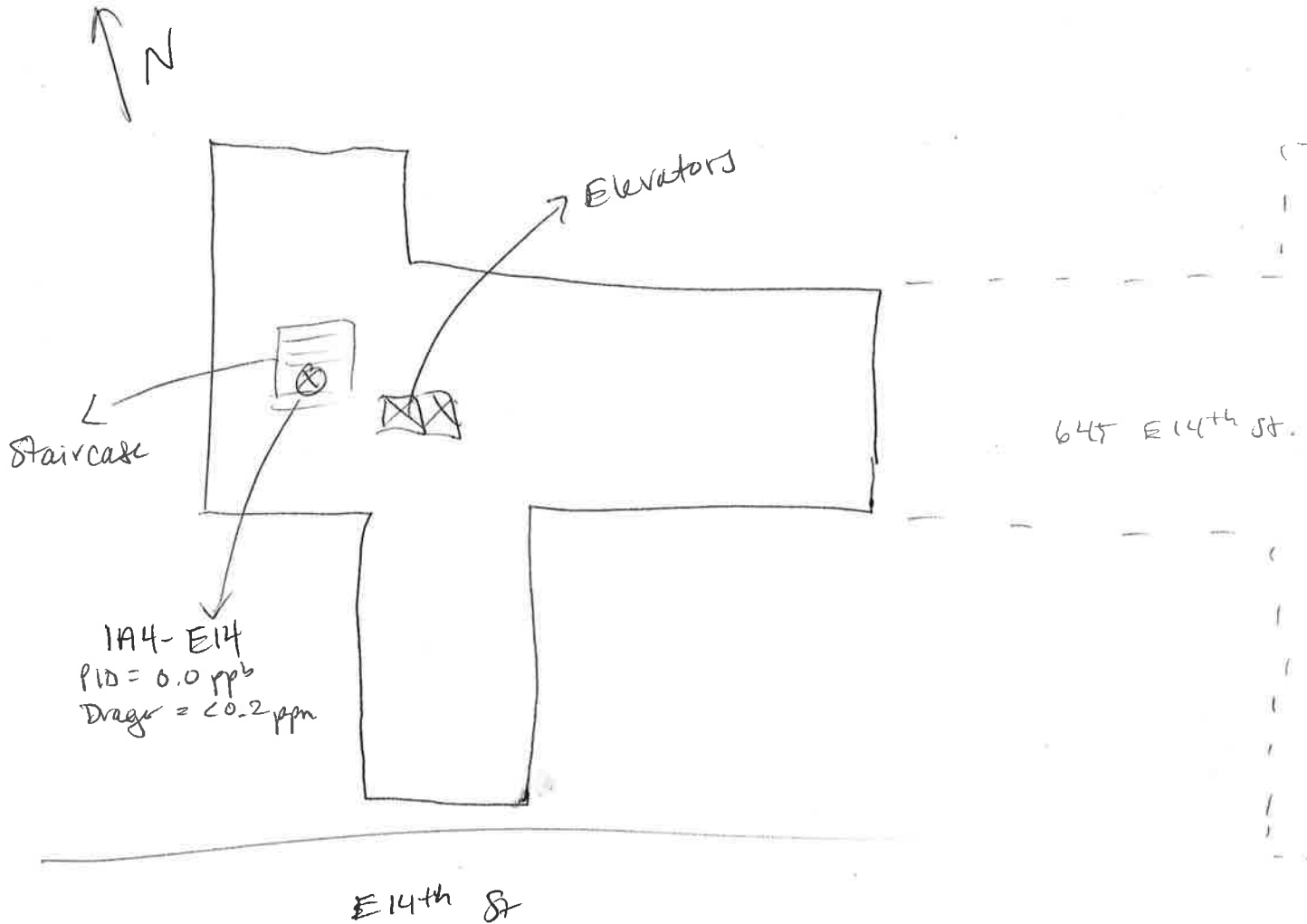
Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

635 E 14th Street



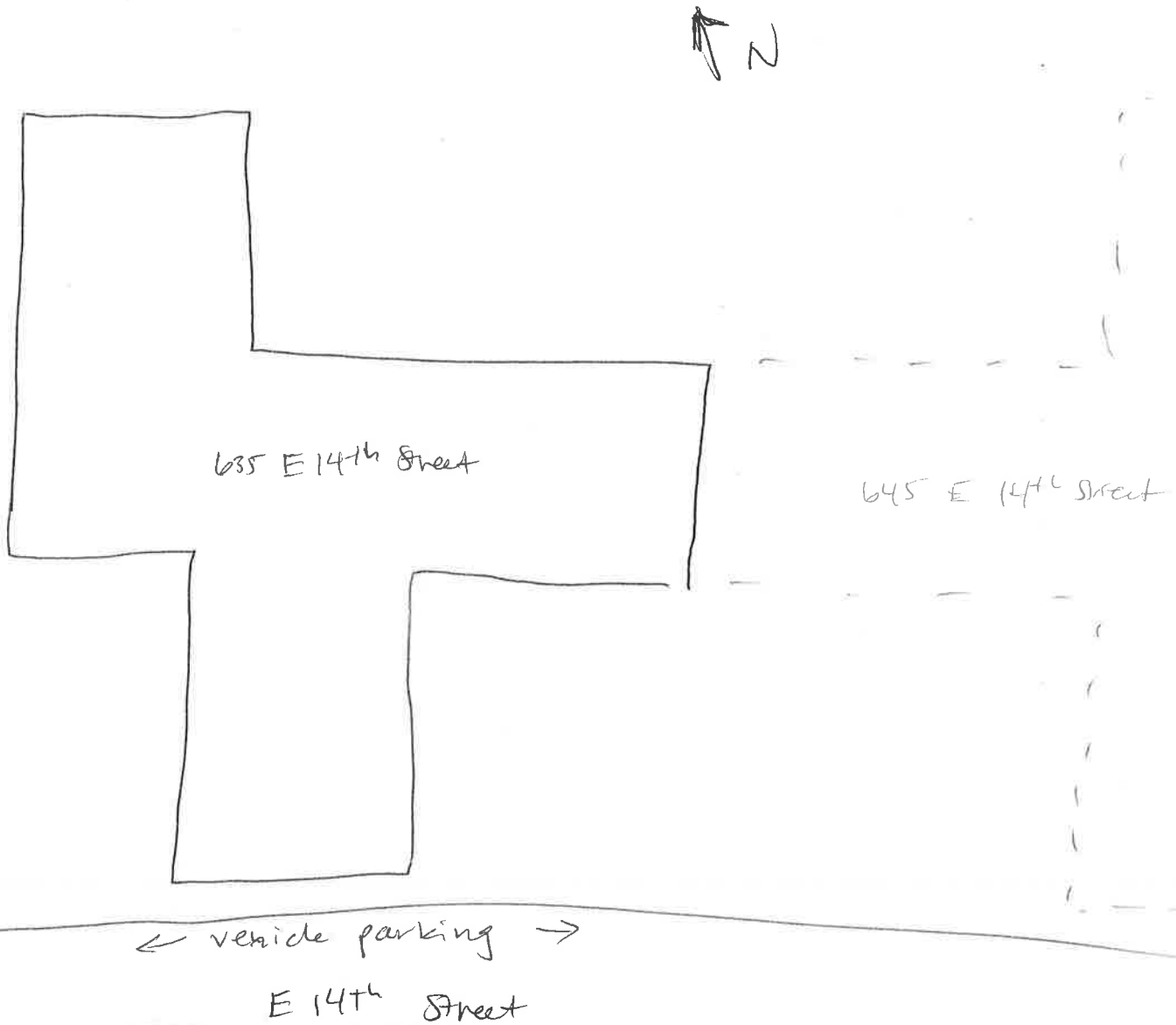
↙ NOT to scale

OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



not to scale

Household Products Inventory

Occupant / residence Multiple

Investigator: Sara Meissner

Date: 03/13/2014

Product description (dispenser, size, manufacturer)

VOC Ingredients

IA4-E14 – NONE	NONE

OSR-3

**NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH ASSESSMENT
BUREAU OF TOXIC SUBSTANCE ASSESSMENT**

INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Sara Meissner Date Prepared 3/13/2014

Preparer's Affiliation AECOM Phone No. 212-377-8400

Purpose of Investigation Air Monitoring

1. OCCUPANT

Name: Multiple

Address: 645 East 14th Street

County: New York, New York

Home Phone No. NA Office Phone No. NA

2. OWNER OR LANDLORD:
(If different than occupant)

Name: Property Management

Address: 317 Avenue C

New York, New York

Phone No. 212-598-5222 (Tom Feeney)

A. Building Construction Characteristics

Type (circle appropriate responses):

Single Family

Multiple Dwelling

Commercial

Public School

Ranch

Raised Ranch

Split Level

Colonial

Mobile Home

2-Family

Duplex

Apartment House unknown Units

Number of floors 14

Other specify NA

Residence Age Mid 1940's General Description of Building Construction Materials Brick, metal, concrete, and glass

Is the building insulated? Yes / No

How air tight is the building? Not tight

OSR-3 (continued)

B. Basement construction characteristics (circle all that apply): No Basement

1. Full basement, crawlspace, slab on grade, other _____
2. Basement floor: concrete, dirt, other _____
3. Concrete floor: unsealed, painted, covered, with _____
4. Foundation walls: poured concrete, block, laid up stone, other _____
5. The basement is: wet, damp, dry__ Sump present? y / n _____ Water in sump? y / n _____
6. The basement is: finished, unfinished exposed foundation walls
7. Identify potential soil vapor entry points (e.g., cracks, utility ports, etc.)

8. Describe how air tight the basement is _____

C. HVAC (circle all that apply):

1. The type of heating system(s) used in this residence is/are:

Hot Air Circulation	Heat Pump
Hot Water Radiation	Unvented Kerosene Heater
<u>Steam Radiation</u>	Wood stove
Electric Baseboard	Other (specify) _____

2. The type(s) of fuel(s) used is/are: Natural Gas, Fuel Oil, Electric, Wood, Coal Solar
Other (specify) _____
3. Is the heating system's power plant located in the basement or another area? No
4. Is there air-conditioning? Yes/ No Central Air or Window Units?
Specify the location Individual Apartments
5. Are there air distribution ducts present? Yes / No
6. Describe the supply and cold air return duct work in the basement including whether there is a cold air return, the tightness of duct joints
N/A

OSR-3 (continued)

D. Potential Indoor Sources of Pollution

1. Has the house ever had a fire? Yes / No Unknown
2. Is there an attached garage? Yes No
3. Is a vehicle normally parked in the garage? Yes No
4. Is there a kerosene heater present? Yes No
5. Is there a workshop, hobby or craft area in the residence? Yes No
6. An inventory of all products used or stored in the home should be performed. Any products that contain volatile organic compounds or chemicals similar to the target compounds should be listed. The attached product inventory form should be used for this purpose.
7. Is there a kitchen exhaust fan? Yes No Where is it vented? _____
8. Has the house ever been fumigated? If yes describe date, type and location of treatment.
Unknown _____

E. Water and Sewage (Circle the appropriate response)

Source of Water

Public Water Drilled Well Driven Well Dug Well Other (Specify) _____

Water Well Specifications:

Well Diameter _____ Grouted or Ungouted _____
Well Depth _____ Type of Storage Tank _____
Depth to Bedrock _____ Size of Storage Tank _____
Feet of Casing _____ Describe type(s) of Treatment _____

Water Quality: N/A

Taste and/or odor problems? y / n If so, describe _____

How long has the taste and/or odor been present? _____

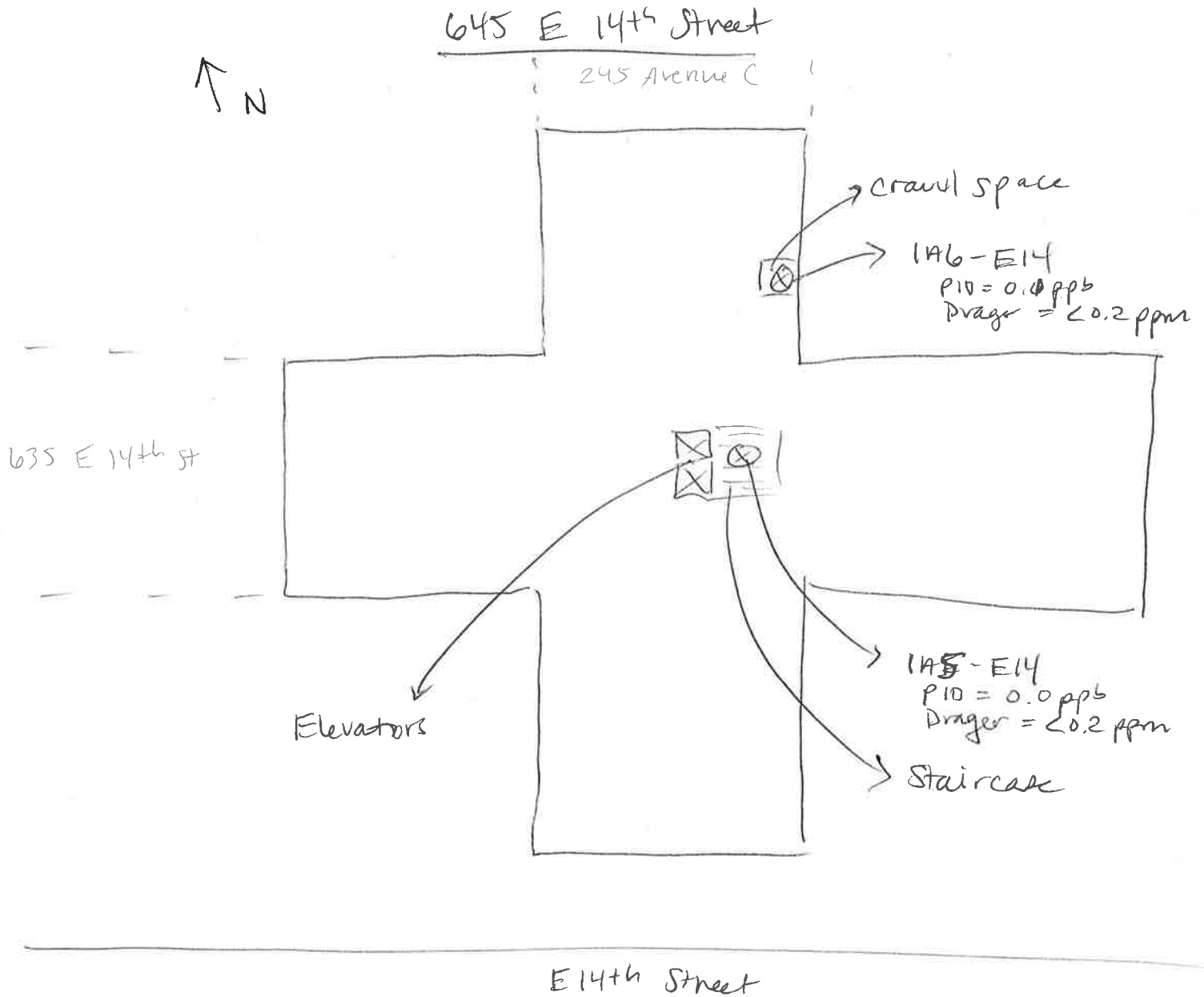
Sewage Disposal: Public Sewer Septic Tank Leach Field Other (Specify) _____

Distance from well to septic system _____ Type of septic tank additive _____

OSR-3 (continued)

F. Plan View

Draw a plan view sketch for each floor of the residence and if applicable, indicate air sampling locations, possible indoor air pollution sources and PID meter readings.

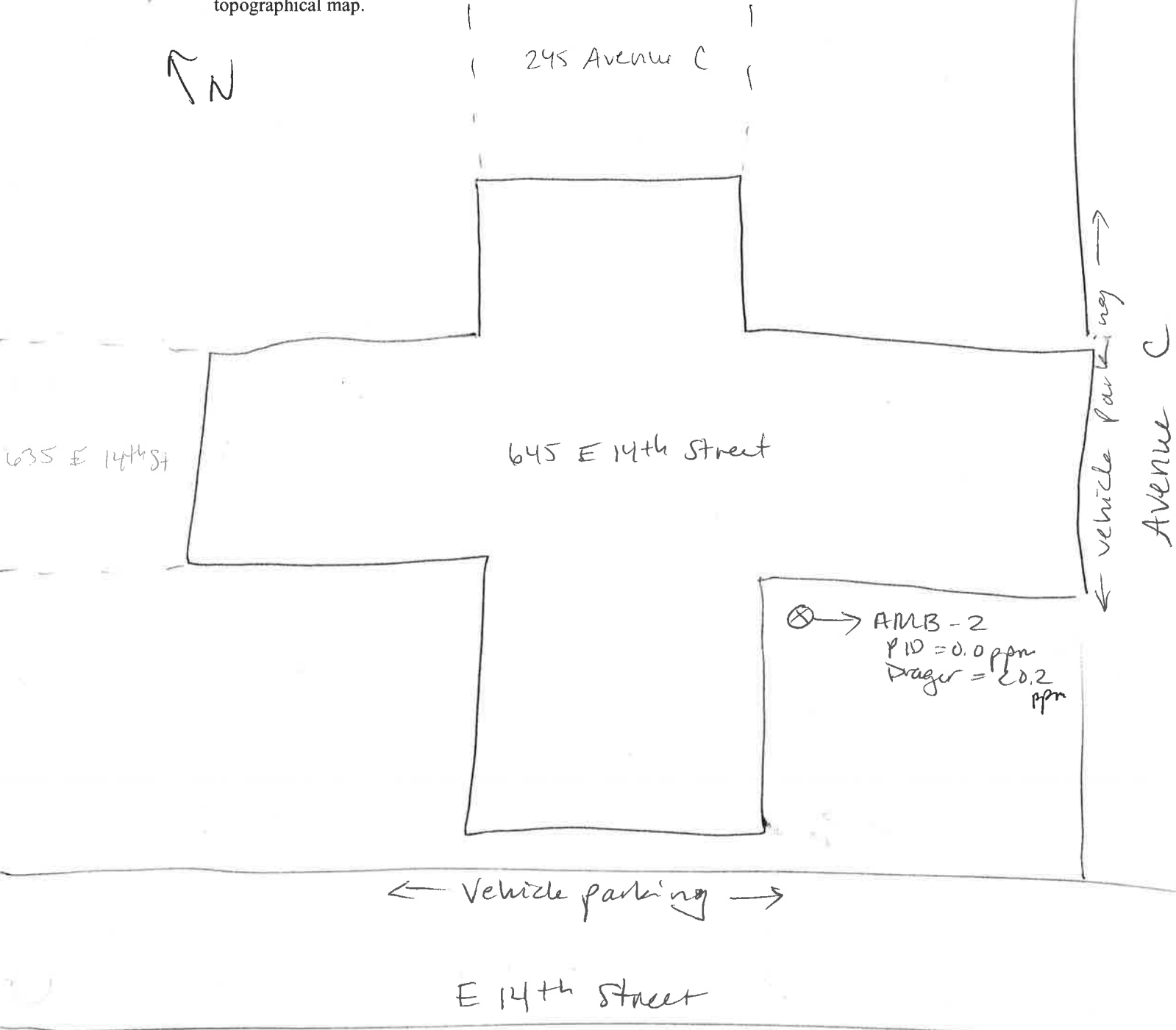


OSR-3 (continued)

G. Potential Outdoor Sources of Pollution

Draw a sketch of the area surrounding the residence being sampled. If applicable, provide information on the spill location (if known), potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system if applicable, and a qualifying statement to help locate the site on a topographical map.



Household Products Inventory

Occupant / residence Multiple

Investigator: Sara Meissner Date: 03/13/2014

Product description (dispenser, size, manufacturer)	VOC Ingredients
IA5-E14 – NONE	NONE
IA6-E14 – NONE	NONE
AMB-2 - NONE	NONE

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel Date: 3/13/2014

Site Name: East 19th Street Former Holder Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) AMB-1

Sample Location (sketch and/or description) outside in front of 522 East 20th Street - Upwind

SEE NYSDOH sample questionnaire form

Canister # 10512

Regulator # 10360

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:37	-29	undisturbed
In Process #1**	10:45	-25	undisturbed
In Process #2**	12:06	-20.5	undisturbed
In Process #3**	13:51	-14	undisturbed
End	16:25	-6	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Delayed start due to being locked out of room with canisters/
Temperature = 32° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
10:39	Drager (ppm)	<0.2
16:20	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Sara Meissner Date: 3/13/2014

Site Name: Stuyvestant Town

Sample ID and Type (indoor air, outdoor air, vapor probe) AMB-2

Sample Location (sketch and/or description) Outside

SEE NYSDOH sample questionnaire form

Canister # 09514

Regulator # 10666

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:10	-30	undisturbed
In Process #1**	12:20	-18	undisturbed
In Process #2**	13:17	-15	undisturbed
In Process #3**	15:15	-9	undisturbed
End	16:48	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
16:20	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel Date: 3/13/2014

Site Name: East 19th Street Former Holder Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) AMB-3

Sample Location (sketch and/or description) outside in front of 524 East 20th Street - Downwind

SEE NYSDOH sample questionnaire form

Canister # 09607

Regulator # 09913

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:35	-30	undisturbed
In Process #1**	10:44	-27	undisturbed
In Process #2**	12:05	-22	undisturbed
In Process #3**	13:50	-16	undisturbed
End	17:06	-6	Disturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Delayed start due to being locked out of room with canisters. Temperature = 32° F
 Sample canister was moved by resident from outside of the building into the building stairwell sometime between 16:30 and 17:00.

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
10:42	Drager (ppm)	<0.2
16:16	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Sara Meissner Date: 3/13/2014

Site Name: Stuyvestant Town

Sample ID and Type (indoor air, outdoor air, vapor probe) AMB-4

Sample Location (sketch and/or description) Outside

SEE NYSDOH sample questionnaire form

Canister # 10401

Regulator # 09914

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:15	-30	undisturbed
In Process #1**	11:20	-22	undisturbed
In Process #2**	13:12	-19	undisturbed
In Process #3**	15:00	-10	undisturbed
End	16:49	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
13:12	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Kristen Barbour Date: 3/13/2014

Site Name: East 14th Street Former Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA1-E14

Sample Location (sketch and/or description) Above crawl space

SEE NYSDOH sample questionnaire form

Canister # 10367

Regulator # 80660

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:36	-30+	undisturbed
In Process #1**	11:15	-25	undisturbed
In Process #2**	13:05	-19	undisturbed
In Process #3**	14:43	-13	undisturbed
End	16:04	-10	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
14:43	Drager (ppm)	<0.2
14:43	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Kristen Barbour **Date:** 3/13/2014

Site Name: East 14th Street Former Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA2-E14

Sample Location (sketch and/or description) Stairwell

SEE NYSDOH sample questionnaire form

Canister # 09916

Regulator # 10355

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:32	-30	undisturbed
In Process #1**	11:20	-24	undisturbed
In Process #2**	14:12	-15	undisturbed
In Process #3**	15:27	-12	undisturbed
End	16:53	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
14:23	Drager (ppm)	<0.2
14:23	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Kristen Barbour Date: 3/13/2014

Site Name: East 14th Street Former Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA3-E14

Sample Location (sketch and/or description) Bottom of ramp at door to daycare room

SEE NYSDOH sample questionnaire form

Canister # 10855

Regulator # 10048

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:25	-28	undisturbed
In Process #1**	11:25	-24	undisturbed
In Process #2**	13:00	-20	undisturbed
In Process #3**	14:50	-15	undisturbed
End	16:52	-10	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
14:15	Drager (ppm)	<0.2
14:15	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Sara Meissner Date: 3/13/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) IA4-E14

Sample Location (sketch and/or description) Stairwell

SEE NYSDOH sample questionnaire form

Canister # 09683

Regulator # 10062

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	10:20	-30	undisturbed
In Process #1**	11:36	-26	undisturbed
In Process #2**	13:13	-21	undisturbed
In Process #3**	15:03	-15	undisturbed
End	17:12	-8	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
13:13	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner Date: 3/13/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) IA5-E14

Sample Location (sketch and/or description) Stairwell

SEE NYSDOH sample questionnaire form

Canister # 10010

Regulator # 10297

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:58	-30	undisturbed
In Process #1**	11:35	-22	undisturbed
In Process #2**	14:06	-13	undisturbed
In Process #3**	15:04	-10	undisturbed
End	16:40	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
13:14	PID (ppb)	0.0

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner Date: 3/13/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) IA6-E14

Sample Location (sketch and/or description) Above crawl space

SEE NYSDOH sample questionnaire form

Canister # 10188

Regulator # 10359

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:56	-30	undisturbed
In Process #1**	11:33	-20.5	undisturbed
In Process #2**	13:15	-14	undisturbed
In Process #3**	15:05	-10	undisturbed
End	16:45	-4	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
NA	Drager (ppm)	<0.2
13:15	PID (ppb)	0.1

NA - Not available

AIR SAMPLING RECORD

Inspector: Sara Meissner Date: 3/13/2014

Site Name: East 14th Street Former Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA7-E14

Sample Location (sketch and/or description) Stairwell

SEE NYSDOH sample questionnaire form

Canister # 09513

Regulator # 10792

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:50	-30	undisturbed
In Process #1**	11:31	-20	undisturbed
In Process #2**	14:10	-10	undisturbed
In Process #3**	15:08	-7	undisturbed
End	15:52	-4	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes:

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
	Drager (ppm)	<0.2
13:16	PID (ppb)	0.1

NA - Not available

AIR SAMPLING RECORD

Inspector: Jessica Ehlen **Date:** 3/15/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) Sample 1

Sample Location (sketch and/or description) Crawl space

SEE NYSDOH sample questionnaire form

Canister # 09610

Regulator # 5175

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	7:27	-30+	undisturbed
In Process #1**	9:05	-28	undisturbed
In Process #2**	11:00	-21.5	undisturbed
In Process #3**	13:38	-12	undisturbed
End	15:32	-6.5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Temperature = 73° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:03	Drager (ppm)	<0.2
11:03	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Jessica Ehlen Date: 3/15/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) Sample 2

Sample Location (sketch and/or description) Room #4

SEE NYSDOH sample questionnaire form

Canister # 34000296

Regulator # 10162

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:20	-30	undisturbed
In Process #1**	9:06	-27	undisturbed
In Process #2**	10:57	-22	undisturbed
In Process #3**	13:36	-14	undisturbed
End	15:45	-7.5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Started sample at 7:25 with canister #09828 and regulator #3447. Sample went down to 11 psi in 1 hour so the sample was stopped and replaced.
Temperature = 72° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
10:58	Drager (ppm)	<0.2
10:58	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Jessica Ehlen Date: 3/15/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) Sample 3

Sample Location (sketch and/or description) Room #2

SEE NYSDOH sample questionnaire form

Canister # 10811

Regulator # 2616

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	7:22	-29.5	undisturbed
In Process #1**	9:03	-25	undisturbed
In Process #2**	10:42	-19.5	undisturbed
In Process #3**	12:43	-13	undisturbed
End	15:25	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Temperature = 72° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
10:42	Drager (ppm)	<0.2
10:42	PID (ppb)	0.1

AIR SAMPLING RECORD

Inspector: Jessica Ehlen Date: 3/15/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) Sample 4

Sample Location (sketch and/or description) Ambient

SEE NYSDOH sample questionnaire form

Canister # 10313

Regulator # 10049

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	7:32	-30	undisturbed
In Process #1**	9:03	-25	undisturbed
In Process #2**	10:45	-19	undisturbed
In Process #3**	13:34	-9	undisturbed
End	14:57	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Temperature = 53° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
10:47	Drager (ppm)	<0.2
10:47	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jessica Ehlen Date: 3/15/2014

Site Name: Former East 14th Street Works

Sample ID and Type (indoor air, outdoor air, vapor probe) Sample 5

Sample Location (sketch and/or description) Room #11

SEE NYSDOH sample questionnaire form

Canister # 10123

Regulator # 11052

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	7:34	-29	undisturbed
In Process #1**	9:08	-24.5	undisturbed
In Process #2**	10:50	-19.5	undisturbed
In Process #3**	12:40	-14.5	undisturbed
End	15:28	-6.5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Temperature = 68° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
10:53	Drager (ppm)	<0.2
10:53	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/13/2014

Site Name: East 17th Street Holder Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA1-E17

Sample Location (sketch and/or description) Above crawl space

SEE NYSDOH sample questionnaire form

Canister # 10120

Regulator # 4205

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:48	-30	undisturbed
In Process #1**	11:20	-20	undisturbed
In Process #2**	14:00	-10	undisturbed
In Process #3**	14:56	-6	undisturbed
End	15:17	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Temperature = 73° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:18	Drager (ppm)	<0.2
15:30	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel Date: 3/13/2014

Site Name: East 17th Street Holder Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA1FD-E17

Sample Location (sketch and/or description) Above crawl space

SEE NYSDOH sample questionnaire form

Canister # 10276

Regulator # 09555

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:40	-30	undisturbed
In Process #1**	11:54	-24	undisturbed
In Process #2**	13:59	-17	undisturbed
In Process #3**	15:19	-11	undisturbed
End	16:45	-8	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Delayed start. Canisters were locked in another room.
Temperature = 73° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
11:18	Drager (ppm)	<0.2
15:30	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel **Date:** 3/13/2014

Site Name: East 17th Street Holder Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA2-E17

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 10038

Regulator # 10659

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	8:51	-29	undisturbed
In Process #1**	11:16	-21.5	undisturbed
In Process #2**	13:57	-11.5	undisturbed
In Process #3**	15:20	-7.5	undisturbed
End	16:10	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Temperature = 71° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes **Note time, type of readings and results**

Time	Type of Reading	Result
11:14	Drager (ppm)	<0.2
15:34	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel Date: 3/13/2014

Site Name: East 19th Street Former Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA1-E19

Sample Location (sketch and/or description) Above crawl space

SEE NYSDOH sample questionnaire form

Canister # 10103

Regulator # 10668

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:21	-29	undisturbed
In Process #1**	11:39	-21	undisturbed
In Process #2**	13:57	-14	undisturbed
In Process #3**	14:41	-10	undisturbed
End	16:18	-5	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Late start due to being locked out of room.
Temperature = 65° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
10:49	Drager (ppm)	<0.2
16:23	PID (ppb)	0.0

AIR SAMPLING RECORD

Inspector: Jennifer Christoffel Date: 3/13/2014

Site Name: East 19th Street Former Station Site

Sample ID and Type (indoor air, outdoor air, vapor probe) IA2-E19

Sample Location (sketch and/or description) Stairwell B

SEE NYSDOH sample questionnaire form

Canister # 09672

Regulator # 10622

Planned Sample Duration: 8 hrs

Pressure Readings and Times:

	Time	Pressure	Condition*
Start	9:25	-30	undisturbed
In Process #1**	11:00	-25	undisturbed
In Process #2**	12:11	-22	undisturbed
In Process #3**	13:55	-15	undisturbed
End	17:05	-6	undisturbed

*write "undisturbed" or note and problems with sample set-up

** At least one in process inspection must be conducted

General Notes: Late start due to being locked out of room.
Temperature = 65° F

Photo of Sample taken? Yes

Helium Leak Test? No (required for some subsurface vapor points)

PID or other readings in area? Yes Note time, type of readings and results

Time	Type of Reading	Result
11:05	Drager (ppm)	<0.2
16:18	PID (ppb)	0.0

Appendix B

Photograph Log

Ambient Air Samples



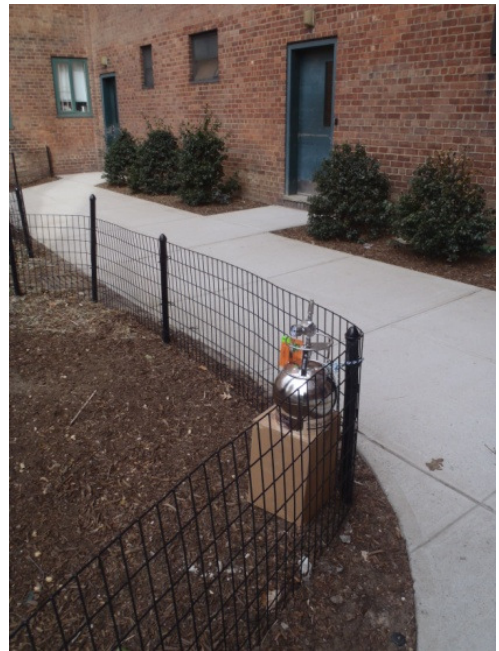
AMB 1



AMB 2



AMB 3



AMB 4

Former East 14th Street Station Site



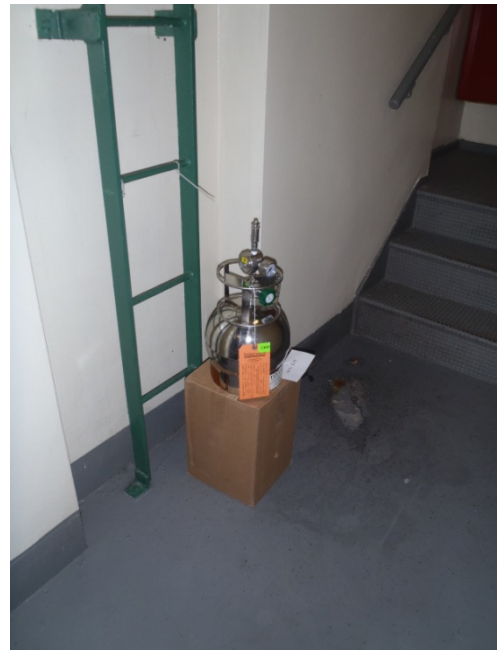
IA1E14



IA2E14



IA3E14



IA4E14

Former East 14th Street Station Site



IA5E14



IA6E14



IA7E14

Former East 14th Street Station Site (Daycare Center)



Sample 1 – Crawl Space



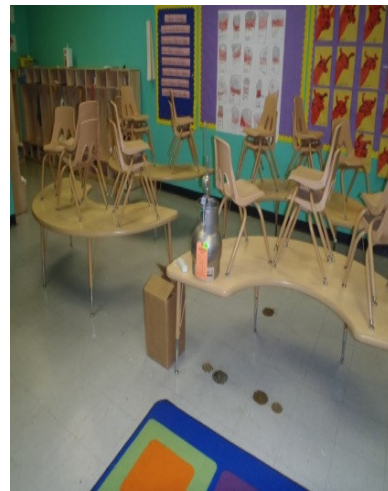
Sample 2 – Room # 4



Sample 3 – Room # 2



Sample 4 – Ambient



Sample 5 – Room # 11

Former East 17th Street Station Site



IA1E17 and IA1FDE17



IA2E17

Former East 19th Street Station Site



IA1E19



IA2E19

Appendix C

Analytical Laboratory Reports Test America, Inc. (Provided on CD)

ANALYTICAL REPORT

Job Number: 140-1063-1

Job Description: PCV/ST

For:

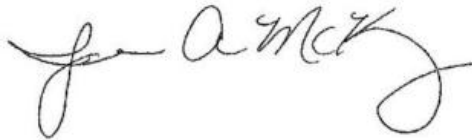
AECOM, Inc.

125 Broad Street

16th Floor

New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer



Approved for release.
Jamie A McKinney
Senior Project Manager
3/28/2014 9:17 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/28/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

TestAmerica Laboratories, Inc.

TestAmerica Knoxville 5815 Middlebrook Pike, Knoxville, TN 37921

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Definitions/Glossary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
140-1063-1

Comments

No additional comments.

Receipt

The samples were received on 3/17/2014 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 971 exhibited % difference of > 30% for the following analyte(s) acetone, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in most of the samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: Can Certification Comments:

Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.065	J	0.20	0.030	ppb v/v	1.43		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1.43		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v	1.43		TO-15	Total/NA
1,4-Dichlorobenzene	0.079	J	0.20	0.064	ppb v/v	1.43		TO-15	Total/NA
2,2,4-Trimethylpentane	0.071	J	0.50	0.039	ppb v/v	1.43		TO-15	Total/NA
2-Butanone (MEK)	0.55	J	1.0	0.20	ppb v/v	1.43		TO-15	Total/NA
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v	1.43		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.24	J	0.50	0.045	ppb v/v	1.43		TO-15	Total/NA
Acetone	3.5	J	5.0	1.4	ppb v/v	1.43		TO-15	Total/NA
Benzene	0.26		0.20	0.056	ppb v/v	1.43		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1.43		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1.43		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1.43		TO-15	Total/NA
Ethanol	23		2.0	2.0	ppb v/v	1.43		TO-15	Total/NA
Ethylbenzene	0.079	J	0.20	0.068	ppb v/v	1.43		TO-15	Total/NA
Heptane	0.098	J	0.50	0.047	ppb v/v	1.43		TO-15	Total/NA
Hexane	0.13	J	0.50	0.032	ppb v/v	1.43		TO-15	Total/NA
Isopropyl alcohol	2.6		2.0	0.094	ppb v/v	1.43		TO-15	Total/NA
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v	1.43		TO-15	Total/NA
m-Xylene & p-Xylene	0.25		0.20	0.12	ppb v/v	1.43		TO-15	Total/NA
o-Xylene	0.095	J	0.20	0.061	ppb v/v	1.43		TO-15	Total/NA
Propene	0.55	cn	0.50	0.077	ppb v/v	1.43		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1.43		TO-15	Total/NA
Toluene	0.99		0.20	0.12	ppb v/v	1.43		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1.43		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.36	J	1.1	0.16	ug/m3	1.43		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1.43		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3	1.43		TO-15	Total/NA
1,4-Dichlorobenzene	0.48	J	1.2	0.38	ug/m3	1.43		TO-15	Total/NA
2,2,4-Trimethylpentane	0.33	J	2.3	0.18	ug/m3	1.43		TO-15	Total/NA
2-Butanone (MEK)	1.6	J	2.9	0.59	ug/m3	1.43		TO-15	Total/NA
2-Methylbutane	1.1	J	1.5	0.091	ug/m3	1.43		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.0	J	2.0	0.18	ug/m3	1.43		TO-15	Total/NA
Acetone	8.2	J	12	3.3	ug/m3	1.43		TO-15	Total/NA
Benzene	0.82		0.64	0.18	ug/m3	1.43		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1.43		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1.43		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1.43		TO-15	Total/NA
Ethanol	44		3.8	3.8	ug/m3	1.43		TO-15	Total/NA
Ethylbenzene	0.34	J	0.87	0.30	ug/m3	1.43		TO-15	Total/NA
Heptane	0.40	J	2.0	0.19	ug/m3	1.43		TO-15	Total/NA
Hexane	0.45	J	1.8	0.11	ug/m3	1.43		TO-15	Total/NA
Isopropyl alcohol	6.3		4.9	0.23	ug/m3	1.43		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1.43		TO-15	Total/NA
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3	1.43		TO-15	Total/NA
o-Xylene	0.41	J	0.87	0.26	ug/m3	1.43		TO-15	Total/NA
Propene	0.94	cn	0.86	0.13	ug/m3	1.43		TO-15	Total/NA
Tetrachloroethene	0.99	J	1.4	0.27	ug/m3	1.43		TO-15	Total/NA
Toluene	3.7		0.75	0.45	ug/m3	1.43		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14 (Continued)

Lab Sample ID: 140-1063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1.43		TO-15	Total/NA

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.064	J	0.20	0.031	ppb v/v		1	TO-15	Total/NA
1,2,4-Trimethylbenzene	0.098	J	0.20	0.063	ppb v/v		1	TO-15	Total/NA
1,4-Dichlorobenzene	0.078	J	0.20	0.064	ppb v/v		1	TO-15	Total/NA
2,2,4-Trimethylpentane	0.081	J	0.50	0.039	ppb v/v		1	TO-15	Total/NA
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v		1	TO-15	Total/NA
2-Methylbutane	2.6		0.50	0.031	ppb v/v		1	TO-15	Total/NA
2-Methylpentane	0.24		0.20	0.20	ppb v/v		1	TO-15	Total/NA
4-Ethyltoluene	0.072	J	0.40	0.066	ppb v/v		1	TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.098	J	0.50	0.045	ppb v/v		1	TO-15	Total/NA
Acetone	6.7		5.0	1.4	ppb v/v		1	TO-15	Total/NA
Benzene	0.40		0.20	0.056	ppb v/v		1	TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v		1	TO-15	Total/NA
Chloroform	0.11	J	0.20	0.038	ppb v/v		1	TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v		1	TO-15	Total/NA
Cyclohexane	0.38	J	0.50	0.040	ppb v/v		1	TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v		1	TO-15	Total/NA
Ethanol	98		2.0	2.0	ppb v/v		1	TO-15	Total/NA
Ethylbenzene	0.11	J	0.20	0.068	ppb v/v		1	TO-15	Total/NA
Heptane	0.19	J	0.50	0.047	ppb v/v		1	TO-15	Total/NA
Hexane	0.35	J	0.50	0.032	ppb v/v		1	TO-15	Total/NA
Isopropyl alcohol	4.9		2.0	0.094	ppb v/v		1	TO-15	Total/NA
Methylene Chloride	0.71		0.50	0.13	ppb v/v		1	TO-15	Total/NA
m-Xylene & p-Xylene	0.32		0.20	0.12	ppb v/v		1	TO-15	Total/NA
o-Xylene	0.13	J	0.20	0.061	ppb v/v		1	TO-15	Total/NA
Propene	2.2	cn	0.50	0.077	ppb v/v		1	TO-15	Total/NA
Styrene	0.068	J	0.20	0.058	ppb v/v		1	TO-15	Total/NA
Tetrachloroethene	0.27		0.20	0.040	ppb v/v		1	TO-15	Total/NA
Toluene	2.1		0.20	0.12	ppb v/v		1	TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v		1	TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	J	1.5	0.24	ug/m3		1	TO-15	Total/NA
1,2,4-Trimethylbenzene	0.48	J	0.98	0.31	ug/m3		1	TO-15	Total/NA
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3		1	TO-15	Total/NA
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3		1	TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3		1	TO-15	Total/NA
2-Methylbutane	7.6		1.5	0.091	ug/m3		1	TO-15	Total/NA
2-Methylpentane	0.84		0.70	0.70	ug/m3		1	TO-15	Total/NA
4-Ethyltoluene	0.36	J	2.0	0.32	ug/m3		1	TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.40	J	2.0	0.18	ug/m3		1	TO-15	Total/NA
Acetone	16		12	3.3	ug/m3		1	TO-15	Total/NA
Benzene	1.3		0.64	0.18	ug/m3		1	TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3		1	TO-15	Total/NA
Chloroform	0.56	J	0.98	0.19	ug/m3		1	TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3		1	TO-15	Total/NA
Cyclohexane	1.3	J	1.7	0.14	ug/m3		1	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14 (Continued)

Lab Sample ID: 140-1063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	190		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.49	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.76	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.2	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.5		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.55	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.29	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.8		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	8.0		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.065	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.066	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.095	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.44	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.30		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.095	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.50		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	35		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.073	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.074	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.086	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.97	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.25		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.42		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.32	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.3	J	1.5	0.091	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14 (Continued)

Lab Sample ID: 140-1063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	0.56	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.95		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.47	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	66		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.32	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.30	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.51	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.9	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.99	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.95		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.37	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.7		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.090	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.12	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.21	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.53		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.49	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.31		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.075	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.37		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.048	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	36		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.086	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.22	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.8		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.42	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.30		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.12	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.77	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.19	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.62		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14 (Continued)

Lab Sample ID: 140-1063-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.44	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.58	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.61	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.6		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.0	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.6	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.98		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	1.8		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.17	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	67		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.44	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.35	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.77	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.5	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.51	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.3	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.059	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Hexanone	0.13	J	0.50	0.058	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.29	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.52		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.0		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.52		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	9.2		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.075	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.055	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.99	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.087	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.79	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.33		0.20	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2 (Continued)

Lab Sample ID: 140-1063-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.39		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.33	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.28	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.52	J	2.0	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.85	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.1		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.77		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	17		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.33	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.22	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.49	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.4	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.95	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.96		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.38	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.2		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.5		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.61	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Hexanone	0.058	J	0.50	0.058	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.27	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.2	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.49	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	8.0		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.057	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.64	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.23	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	0.60	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.55		0.20	0.040	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4 (Continued)

Lab Sample ID: 140-1063-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.29		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.24	J	2.0	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.80	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.60	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.69		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	15		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.23	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.40	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.6	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.81	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.61	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	1.0	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.7		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.75	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.1		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.25		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.16	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.60		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.39		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.16	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.57		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.072	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	53		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.38		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.19	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.29	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.4		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	3.6		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.7		0.20	0.12	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B7 (Continued)

Lab Sample ID: 140-1063-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.68		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.97	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.14	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.22		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.4		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.75	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.2	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	3.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.88		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.78	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.5		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	11	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.78	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.25	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	99		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.7		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.79	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.0	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.8		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	13		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	7.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	3.0		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.61	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.5		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	5.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B7

Lab Sample ID: 140-1063-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.92		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.23		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.13	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.21	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.8	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.36		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B7 (Continued)

Lab Sample ID: 140-1063-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.056	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.58		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.068	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	23		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.23		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.15	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.36	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.82		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.94		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.38		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.073	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.14	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.81	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.63	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.7		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.83		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.62	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.86	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.9	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.1		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.27	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.23	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	44		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.60	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.3	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	4.1		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.6		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.31	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.97	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA1-B11

Lab Sample ID: 140-1063-10

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11 (Continued)

Lab Sample ID: 140-1063-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.096	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.17	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Hexanone	0.099	J	0.50	0.058	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.5		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.40		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.17	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.34	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	8.5		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.39		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.14	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.57		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.13	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	160		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.21		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.19	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.50		0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	8.7		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.60		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.32		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	5.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.070	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.20		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.2		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.79	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.58	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.41	J	2.0	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	7.3		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.4		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.85	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.4	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	20		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.67	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.43	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	290		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.90		0.87	0.30	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11 (Continued)

Lab Sample ID: 140-1063-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Heptane	0.77	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.8		1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	21		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.1		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.4		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	8.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.30	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.3		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.5		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B11

Lab Sample ID: 140-1063-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.10	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.83	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	1.5		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.29		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.099	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.46	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.5		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.37		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.042	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.077	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.64		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.090	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	56		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.18	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.18	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.31	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.47	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.61		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.24		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.9	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.64	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.61	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.72	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.5	J	2.9	0.59	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B11 (Continued)

Lab Sample ID: 140-1063-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylbutane	4.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.0		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.49	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.9	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	13		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.13	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.38	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.31	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	110		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.77	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.73	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.1	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.6	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	2.7		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.0		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.2	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1.64		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.21		0.20	0.063	ppb v/v	1.64		TO-15	Total/NA
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v	1.64		TO-15	Total/NA
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v	1.64		TO-15	Total/NA
2-Butanone (MEK)	1.6		1.0	0.20	ppb v/v	1.64		TO-15	Total/NA
2-Hexanone	0.088	J	0.50	0.058	ppb v/v	1.64		TO-15	Total/NA
2-Methylbutane	1.4		0.50	0.031	ppb v/v	1.64		TO-15	Total/NA
2-Methylpentane	0.33		0.20	0.20	ppb v/v	1.64		TO-15	Total/NA
4-Ethyltoluene	0.31	J	0.40	0.066	ppb v/v	1.64		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.56		0.50	0.045	ppb v/v	1.64		TO-15	Total/NA
Acetone	7.1		5.0	1.4	ppb v/v	1.64		TO-15	Total/NA
Benzene	0.40		0.20	0.056	ppb v/v	1.64		TO-15	Total/NA
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v	1.64		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1.64		TO-15	Total/NA
Chloroform	0.40		0.20	0.038	ppb v/v	1.64		TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v	1.64		TO-15	Total/NA
Cyclohexane	0.10	J	0.50	0.040	ppb v/v	1.64		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1.64		TO-15	Total/NA
Ethanol	110		2.0	2.0	ppb v/v	1.64		TO-15	Total/NA
Ethylbenzene	0.21		0.20	0.068	ppb v/v	1.64		TO-15	Total/NA
Heptane	0.24	J	0.50	0.047	ppb v/v	1.64		TO-15	Total/NA
Hexane	0.42	J	0.50	0.032	ppb v/v	1.64		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B11 (Continued)

Lab Sample ID: 140-1063-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	8.9		2.0	0.094	ppb v/v	1.64		TO-15	Total/NA
Methylene Chloride	0.51		0.50	0.13	ppb v/v	1.64		TO-15	Total/NA
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v	1.64		TO-15	Total/NA
o-Xylene	0.31		0.20	0.061	ppb v/v	1.64		TO-15	Total/NA
Propene	1.7	cn	0.50	0.077	ppb v/v	1.64		TO-15	Total/NA
Styrene	0.12	J	0.20	0.058	ppb v/v	1.64		TO-15	Total/NA
Tetrachloroethene	0.20		0.20	0.040	ppb v/v	1.64		TO-15	Total/NA
Toluene	1.3		0.20	0.12	ppb v/v	1.64		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1.64		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1.64		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.0		0.98	0.31	ug/m3	1.64		TO-15	Total/NA
1,4-Dichlorobenzene	0.86	J	1.2	0.38	ug/m3	1.64		TO-15	Total/NA
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3	1.64		TO-15	Total/NA
2-Butanone (MEK)	4.6		2.9	0.59	ug/m3	1.64		TO-15	Total/NA
2-Hexanone	0.36	J	2.0	0.24	ug/m3	1.64		TO-15	Total/NA
2-Methylbutane	4.1		1.5	0.091	ug/m3	1.64		TO-15	Total/NA
2-Methylpentane	1.2		0.70	0.70	ug/m3	1.64		TO-15	Total/NA
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3	1.64		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.3		2.0	0.18	ug/m3	1.64		TO-15	Total/NA
Acetone	17		12	3.3	ug/m3	1.64		TO-15	Total/NA
Benzene	1.3		0.64	0.18	ug/m3	1.64		TO-15	Total/NA
Carbon disulfide	0.12	J	1.6	0.097	ug/m3	1.64		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1.64		TO-15	Total/NA
Chloroform	2.0		0.98	0.19	ug/m3	1.64		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1.64		TO-15	Total/NA
Cyclohexane	0.36	J	1.7	0.14	ug/m3	1.64		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1.64		TO-15	Total/NA
Ethanol	210		3.8	3.8	ug/m3	1.64		TO-15	Total/NA
Ethylbenzene	0.93		0.87	0.30	ug/m3	1.64		TO-15	Total/NA
Heptane	0.97	J	2.0	0.19	ug/m3	1.64		TO-15	Total/NA
Hexane	1.5	J	1.8	0.11	ug/m3	1.64		TO-15	Total/NA
Isopropyl alcohol	22		4.9	0.23	ug/m3	1.64		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1.64		TO-15	Total/NA
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3	1.64		TO-15	Total/NA
o-Xylene	1.4		0.87	0.26	ug/m3	1.64		TO-15	Total/NA
Propene	3.0	cn	0.86	0.13	ug/m3	1.64		TO-15	Total/NA
Styrene	0.52	J	0.85	0.25	ug/m3	1.64		TO-15	Total/NA
Tetrachloroethene	1.4		1.4	0.27	ug/m3	1.64		TO-15	Total/NA
Toluene	5.0		0.75	0.45	ug/m3	1.64		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1.64		TO-15	Total/NA

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.19	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.51		0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14 (Continued)

Lab Sample ID: 140-1063-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylpentane	0.56		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.092	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.32	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.0	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.90		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.092	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.49	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.17	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	68		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.23		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.26	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.47	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.73		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.28		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.3	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.31		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.92	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.4		2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	6.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	2.0		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.45	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.3	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	7.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	2.9		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.45	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.60	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	130		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.1	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.6	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	3.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	1.2		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	3.9	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.1		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	5.9		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.062	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.29	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.052	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.51		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	53		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.078	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.17	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.17	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.070	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.53		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.50		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.29	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.70	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.1	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.8	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.78		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.25	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	100		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.32	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.61	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.75	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.30	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.6		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.9		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1.84		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.14	J	0.20	0.063	ppb v/v	1.84		TO-15	Total/NA
1,4-Dichlorobenzene	0.22		0.20	0.064	ppb v/v	1.84		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14 (Continued)

Lab Sample ID: 140-1063-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.073	J	0.50	0.039	ppb v/v	1.84		TO-15	Total/NA
2-Butanone (MEK)	2.8		1.0	0.20	ppb v/v	1.84		TO-15	Total/NA
2-Hexanone	0.19	J	0.50	0.058	ppb v/v	1.84		TO-15	Total/NA
2-Methylbutane	0.33	J	0.50	0.031	ppb v/v	1.84		TO-15	Total/NA
4-Ethyltoluene	0.082	J	0.40	0.066	ppb v/v	1.84		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.1		0.50	0.045	ppb v/v	1.84		TO-15	Total/NA
Acetone	16		5.0	1.4	ppb v/v	1.84		TO-15	Total/NA
Benzene	0.25		0.20	0.056	ppb v/v	1.84		TO-15	Total/NA
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v	1.84		TO-15	Total/NA
Chloroform	0.12	J	0.20	0.038	ppb v/v	1.84		TO-15	Total/NA
Chloromethane	0.62		0.50	0.16	ppb v/v	1.84		TO-15	Total/NA
Cyclohexane	0.049	J	0.50	0.040	ppb v/v	1.84		TO-15	Total/NA
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v	1.84		TO-15	Total/NA
Ethanol	180		2.0	2.0	ppb v/v	1.84		TO-15	Total/NA
Ethylbenzene	0.23		0.20	0.068	ppb v/v	1.84		TO-15	Total/NA
Heptane	0.27	J	0.50	0.047	ppb v/v	1.84		TO-15	Total/NA
Hexane	0.18	J	0.50	0.032	ppb v/v	1.84		TO-15	Total/NA
Isopropyl alcohol	3.0		2.0	0.094	ppb v/v	1.84		TO-15	Total/NA
Methylene Chloride	0.32	J	0.50	0.13	ppb v/v	1.84		TO-15	Total/NA
m-Xylene & p-Xylene	0.82		0.20	0.12	ppb v/v	1.84		TO-15	Total/NA
o-Xylene	0.32		0.20	0.061	ppb v/v	1.84		TO-15	Total/NA
Propene	3.1	cn	0.50	0.077	ppb v/v	1.84		TO-15	Total/NA
Tetrachloroethene	0.35		0.20	0.040	ppb v/v	1.84		TO-15	Total/NA
Tetrahydrofuran	0.074	J	1.0	0.063	ppb v/v	1.84		TO-15	Total/NA
Toluene	1.0		0.20	0.12	ppb v/v	1.84		TO-15	Total/NA
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v	1.84		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1.84		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.70	J	0.98	0.31	ug/m3	1.84		TO-15	Total/NA
1,4-Dichlorobenzene	1.3		1.2	0.38	ug/m3	1.84		TO-15	Total/NA
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3	1.84		TO-15	Total/NA
2-Butanone (MEK)	8.1		2.9	0.59	ug/m3	1.84		TO-15	Total/NA
2-Hexanone	0.79	J	2.0	0.24	ug/m3	1.84		TO-15	Total/NA
2-Methylbutane	0.96	J	1.5	0.091	ug/m3	1.84		TO-15	Total/NA
4-Ethyltoluene	0.40	J	2.0	0.32	ug/m3	1.84		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.3		2.0	0.18	ug/m3	1.84		TO-15	Total/NA
Acetone	38		12	3.3	ug/m3	1.84		TO-15	Total/NA
Benzene	0.79		0.64	0.18	ug/m3	1.84		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3	1.84		TO-15	Total/NA
Chloroform	0.57	J	0.98	0.19	ug/m3	1.84		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1.84		TO-15	Total/NA
Cyclohexane	0.17	J	1.7	0.14	ug/m3	1.84		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1.84		TO-15	Total/NA
Ethanol	340		3.8	3.8	ug/m3	1.84		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.30	ug/m3	1.84		TO-15	Total/NA
Heptane	1.1	J	2.0	0.19	ug/m3	1.84		TO-15	Total/NA
Hexane	0.62	J	1.8	0.11	ug/m3	1.84		TO-15	Total/NA
Isopropyl alcohol	7.3		4.9	0.23	ug/m3	1.84		TO-15	Total/NA
Methylene Chloride	1.1	J	1.7	0.45	ug/m3	1.84		TO-15	Total/NA
m-Xylene & p-Xylene	3.6		0.87	0.52	ug/m3	1.84		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14 (Continued)

Lab Sample ID: 140-1063-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	1.4		0.87	0.26	ug/m3	1.84		TO-15	Total/NA
Propene	5.3	cn	0.86	0.13	ug/m3	1.84		TO-15	Total/NA
Tetrachloroethene	2.4		1.4	0.27	ug/m3	1.84		TO-15	Total/NA
Tetrahydrofuran	0.22	J	2.9	0.19	ug/m3	1.84		TO-15	Total/NA
Toluene	3.8		0.75	0.45	ug/m3	1.84		TO-15	Total/NA
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3	1.84		TO-15	Total/NA

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.52		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	3.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	2.9		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.27		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.30	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.44	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	270	E	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.41		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.13	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.073	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.053	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.59		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.12	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	200	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	4.6		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.39	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.35	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.3		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	14		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	19		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	5.2		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	31	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.93		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	130	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.057	J	0.20	0.036	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Acetone - DL	260		91	25	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	200		36	36	ppb v/v	1		TO-15	Total/NA
Toluene - DL	110		3.6	2.2	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.5		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.66	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	9.2		2.9	0.59	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5 (Continued)

Lab Sample ID: 140-1063-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylbutane	8.5		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.94		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.8	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	640	E	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.3		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.39	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.26	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.42	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	390	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	20		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.6	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.2	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	10		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	50		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	81		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	23		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	53	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	4.0		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	500	E	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.31	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA
Acetone - DL	630		220	60	ug/m3	1		TO-15	Total/NA
Ethanol - DL	380		69	69	ug/m3	1		TO-15	Total/NA
Toluene - DL	420		14	8.2	ug/m3	1		TO-15	Total/NA

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.35		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.089	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	3.3		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	3.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.32		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.62		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	230	E	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.39		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.24	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.089	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.52		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.18	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B5 (Continued)

Lab Sample ID: 140-1063-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	200		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	3.2		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.44	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.38	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.5		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	17		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	12		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	3.3		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Styrene	0.91		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Tetrahydrofuran	0.19	J	1.0	0.063	ppb v/v	1		TO-15	Total/NA
Toluene	100	E	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.061	J	0.20	0.036	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Acetone - DL	220		91	25	ppb v/v	1		TO-15	Total/NA
Toluene - DL	65		3.6	2.2	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.7		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.44	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.75	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	9.8		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	9.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	1.1		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.91	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.6		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	540	E	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.74	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.43	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.63	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	370		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	14		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.8	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.3	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	11		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	59		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	53		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	14		0.87	0.26	ug/m3	1		TO-15	Total/NA
Styrene	3.9		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.80	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Tetrahydrofuran	0.55	J	2.9	0.19	ug/m3	1		TO-15	Total/NA
Toluene	380	E	0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.33	J	1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA
Acetone - DL	510		220	60	ug/m3	1		TO-15	Total/NA
Toluene - DL	250		14	8.2	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.48		0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.073	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.095	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	8.6		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	3.2		0.50	0.031	ppb v/v	1		TO-15	Total/NA
2-Methylpentane	0.24		0.20	0.20	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.22	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	3.3		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	9.8	*	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.37		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.054	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.064	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.56		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.12	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	720	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.3		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	1.2		0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.30	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	8.5		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	46	E	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.1		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.10	J	0.50	0.090	ppb v/v	1		TO-15	Total/NA
o-Xylene	1.6		0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.1	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	9.5		0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	17		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.23		0.20	0.036	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	760		20	20	ppb v/v	1		TO-15	Total/NA
Methylene Chloride - DL	33		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.3		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.62	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.16	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.57	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.67	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	25		2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	9.4		1.5	0.091	ug/m3	1		TO-15	Total/NA
2-Methylpentane	0.85		0.70	0.70	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.1	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	13		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	23	*	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.18	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5 (Continued)

Lab Sample ID: 140-1063-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.17	J	1.6	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.31	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.42	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	1400	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.5		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	5.0		2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	1.0	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	21		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	160	E	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	22		0.87	0.52	ug/m3	1		TO-15	Total/NA
Naphthalene	0.54	J	2.6	0.47	ug/m3	1		TO-15	Total/NA
o-Xylene	6.9		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.9	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	40		0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	65		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	1.2		1.1	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	1400		38	38	ug/m3	1		TO-15	Total/NA
Methylene Chloride - DL	120		17	4.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.28	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	2.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.20		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.47	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	7.4		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.048	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.095	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.71	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.088	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.41	J cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.093	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.36		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.76	J	0.98	0.31	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1 (Continued)

Lab Sample ID: 140-1063-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.4	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.83	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
Acetone	5.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.64		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	0.97	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	14		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.20	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.34	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.7	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.98	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.97		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.38	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	0.70	J cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.63	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.042	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.22	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.32	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.10	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	1.7	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.23		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.54		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	12		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.053	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.11	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.83	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.29	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
Propene	0.43	J cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Toluene	0.37		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.65	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	0.96	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.42	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	4.1	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.74		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3 (Continued)

Lab Sample ID: 140-1063-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	23		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.22	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.39	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	2.1	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.0	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.62	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
Propene	0.74	J cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Toluene	1.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.088	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.25		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.083	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.44	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.74		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.27	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.0	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.28		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroethane	0.11	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
Chloroform	0.55		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.54		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	50		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.092	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.098	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.1		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.28		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.11	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.0	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.075	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.57		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.43	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.39	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.2		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.1	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	9.4	J	12	3.3	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19 (Continued)

Lab Sample ID: 140-1063-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.89		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroethane	0.30	J	0.53	0.092	ug/m3	1		TO-15	Total/NA
Chloroform	2.7		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	95		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.40	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.40	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.49	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	5.1		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.95	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.49	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.7	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.51	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.051	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.26		0.20	0.064	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.056	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.30	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.47	J	0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.9	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.14	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.56		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	160		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.084	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.12	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	6.2		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.51		0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.20		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.075	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.93	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.58		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.28	J	1.1	0.16	ug/m3	1		TO-15	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19 (Continued)

Lab Sample ID: 140-1063-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,2,4-Trimethylpentane	0.26	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.88	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.4	J	1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.57	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	6.9	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.76		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.68	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	300		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.34	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.42	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	15		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.8		1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.85		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.33	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.2		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.14	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.64		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.97		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	2.3	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.050	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	19		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.058	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.12	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.23	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.16	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.063	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.6	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.050	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.82		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.31	J	0.88	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17 (Continued)

Lab Sample ID: 140-1063-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.9		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	4.0		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	5.5	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.76		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.25	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	35		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.24	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.41	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	14		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.81	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.70	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.28	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	4.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.34	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	3.1		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.13	J	0.40	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.61		0.50	0.031	ppb v/v	1		TO-15	Total/NA
Acetone	2.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.052	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.56		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	18		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.076	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.14	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.4		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.30	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.15	J	0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.062	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	2.4	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.63		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.28	J	0.88	0.14	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	0.80	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.8		1.5	0.091	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17 (Continued)

Lab Sample ID: 140-1063-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.2	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.78		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.26	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	33		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.31	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.50	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	13		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.1	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.65	J	0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.27	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	4.1	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.29	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	2.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.58		0.40	0.064	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.64		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.31	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	7.4		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.71		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.24		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	1.2		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	68		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.16	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.11	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.17	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.1		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.22	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.48		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.14	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	3.8	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.10	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.044	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17 (Continued)

Lab Sample ID: 140-1063-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	1.3		0.88	0.14	ug/m3		1	TO-15	Total/NA
1,4-Dichlorobenzene	0.82	J	1.2	0.38	ug/m3		1	TO-15	Total/NA
2-Butanone (MEK)	3.2		2.9	0.59	ug/m3		1	TO-15	Total/NA
2-Methylbutane	1.9		1.5	0.091	ug/m3		1	TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3		1	TO-15	Total/NA
Acetone	18		12	3.3	ug/m3		1	TO-15	Total/NA
Benzene	2.3		0.64	0.18	ug/m3		1	TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3		1	TO-15	Total/NA
Chloroform	1.2		0.98	0.19	ug/m3		1	TO-15	Total/NA
Chloromethane	2.5		1.0	0.33	ug/m3		1	TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3		1	TO-15	Total/NA
Ethanol	130		3.8	3.8	ug/m3		1	TO-15	Total/NA
Ethylbenzene	0.70	J	0.87	0.30	ug/m3		1	TO-15	Total/NA
Heptane	0.44	J	2.0	0.19	ug/m3		1	TO-15	Total/NA
Hexane	0.59	J	1.8	0.11	ug/m3		1	TO-15	Total/NA
Isopropyl alcohol	12		4.9	0.23	ug/m3		1	TO-15	Total/NA
Methylene Chloride	0.78	J	1.7	0.45	ug/m3		1	TO-15	Total/NA
m-Xylene & p-Xylene	2.1		0.87	0.52	ug/m3		1	TO-15	Total/NA
o-Xylene	0.59	J	0.87	0.26	ug/m3		1	TO-15	Total/NA
Propene	6.6	cn	0.86	0.13	ug/m3		1	TO-15	Total/NA
Styrene	0.43	J	0.85	0.25	ug/m3		1	TO-15	Total/NA
Tetrachloroethene	0.30	J	1.4	0.27	ug/m3		1	TO-15	Total/NA
Toluene	5.9		0.75	0.45	ug/m3		1	TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3		1	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Date Collected: 03/13/14 17:12

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.065	J	0.20	0.030	ppb v/v			03/19/14 16:52	1.43
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 16:52	1.43
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v			03/19/14 16:52	1.43
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 16:52	1.43
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 16:52	1.43
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 16:52	1.43
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 16:52	1.43
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v			03/19/14 16:52	1.43
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 16:52	1.43
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 16:52	1.43
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 16:52	1.43
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 16:52	1.43
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 16:52	1.43
1,4-Dichlorobenzene	0.079	J	0.20	0.064	ppb v/v			03/19/14 16:52	1.43
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 16:52	1.43
2,2,4-Trimethylpentane	0.071	J	0.50	0.039	ppb v/v			03/19/14 16:52	1.43
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
2-Butanone (MEK)	0.55	J	1.0	0.20	ppb v/v			03/19/14 16:52	1.43
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 16:52	1.43
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v			03/19/14 16:52	1.43
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 16:52	1.43
4-Methyl-2-pentanone (MIBK)	0.24	J	0.50	0.045	ppb v/v			03/19/14 16:52	1.43
Acetone	3.5	J	5.0	1.4	ppb v/v			03/19/14 16:52	1.43
Benzene	0.26		0.20	0.056	ppb v/v			03/19/14 16:52	1.43
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 16:52	1.43
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 16:52	1.43
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 16:52	1.43
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 16:52	1.43
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 16:52	1.43
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/19/14 16:52	1.43
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 16:52	1.43
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 16:52	1.43
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 16:52	1.43
Chloromethane	0.51		0.50	0.16	ppb v/v			03/19/14 16:52	1.43
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 16:52	1.43
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 16:52	1.43
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 16:52	1.43
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 16:52	1.43
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 16:52	1.43
Ethanol	23		2.0	2.0	ppb v/v			03/19/14 16:52	1.43
Ethylbenzene	0.079	J	0.20	0.068	ppb v/v			03/19/14 16:52	1.43
Heptane	0.098	J	0.50	0.047	ppb v/v			03/19/14 16:52	1.43
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 16:52	1.43

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Date Collected: 03/13/14 17:12

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.13	J	0.50	0.032	ppb v/v			03/19/14 16:52	1.43
Indane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
Indene	ND		0.40	0.40	ppb v/v			03/19/14 16:52	1.43
Isopropyl alcohol	2.6		2.0	0.094	ppb v/v			03/19/14 16:52	1.43
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 16:52	1.43
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v			03/19/14 16:52	1.43
m-Xylene & p-Xylene	0.25		0.20	0.12	ppb v/v			03/19/14 16:52	1.43
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 16:52	1.43
o-Xylene	0.095	J	0.20	0.061	ppb v/v			03/19/14 16:52	1.43
Propene	0.55	cn	0.50	0.077	ppb v/v			03/19/14 16:52	1.43
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 16:52	1.43
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/19/14 16:52	1.43
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 16:52	1.43
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
Toluene	0.99		0.20	0.12	ppb v/v			03/19/14 16:52	1.43
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 16:52	1.43
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 16:52	1.43
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 16:52	1.43
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/19/14 16:52	1.43
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 16:52	1.43
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.36	J	1.1	0.16	ug/m3			03/19/14 16:52	1.43
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 16:52	1.43
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/19/14 16:52	1.43
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 16:52	1.43
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 16:52	1.43
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 16:52	1.43
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 16:52	1.43
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3			03/19/14 16:52	1.43
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 16:52	1.43
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 16:52	1.43
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 16:52	1.43
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 16:52	1.43
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 16:52	1.43
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 16:52	1.43
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 16:52	1.43
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 16:52	1.43
1,4-Dichlorobenzene	0.48	J	1.2	0.38	ug/m3			03/19/14 16:52	1.43
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 16:52	1.43
2,2,4-Trimethylpentane	0.33	J	2.3	0.18	ug/m3			03/19/14 16:52	1.43
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 16:52	1.43
2-Butanone (MEK)	1.6	J	2.9	0.59	ug/m3			03/19/14 16:52	1.43
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 16:52	1.43
2-Methylbutane	1.1	J	1.5	0.091	ug/m3			03/19/14 16:52	1.43
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 16:52	1.43
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 16:52	1.43
4-Methyl-2-pentanone (MIBK)	1.0	J	2.0	0.18	ug/m3			03/19/14 16:52	1.43

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Date Collected: 03/13/14 17:12

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.2	J	12	3.3	ug/m3			03/19/14 16:52	1.43
Benzene	0.82		0.64	0.18	ug/m3			03/19/14 16:52	1.43
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 16:52	1.43
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 16:52	1.43
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 16:52	1.43
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 16:52	1.43
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 16:52	1.43
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 16:52	1.43
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 16:52	1.43
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 16:52	1.43
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 16:52	1.43
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 16:52	1.43
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 16:52	1.43
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 16:52	1.43
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 16:52	1.43
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 16:52	1.43
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 16:52	1.43
Ethanol	44		3.8	3.8	ug/m3			03/19/14 16:52	1.43
Ethylbenzene	0.34	J	0.87	0.30	ug/m3			03/19/14 16:52	1.43
Heptane	0.40	J	2.0	0.19	ug/m3			03/19/14 16:52	1.43
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 16:52	1.43
Hexane	0.45	J	1.8	0.11	ug/m3			03/19/14 16:52	1.43
Indane	ND		0.97	0.97	ug/m3			03/19/14 16:52	1.43
Indene	ND		1.9	1.9	ug/m3			03/19/14 16:52	1.43
Isopropyl alcohol	6.3		4.9	0.23	ug/m3			03/19/14 16:52	1.43
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 16:52	1.43
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/19/14 16:52	1.43
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3			03/19/14 16:52	1.43
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 16:52	1.43
o-Xylene	0.41	J	0.87	0.26	ug/m3			03/19/14 16:52	1.43
Propene	0.94	cn	0.86	0.13	ug/m3			03/19/14 16:52	1.43
Styrene	ND		0.85	0.25	ug/m3			03/19/14 16:52	1.43
Tetrachloroethene	0.99	J	1.4	0.27	ug/m3			03/19/14 16:52	1.43
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 16:52	1.43
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 16:52	1.43
Toluene	3.7		0.75	0.45	ug/m3			03/19/14 16:52	1.43
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 16:52	1.43
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 16:52	1.43
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 16:52	1.43
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 16:52	1.43
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 16:52	1.43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		60 - 140		03/19/14 16:52	1.43

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Date Collected: 03/13/14 16:40

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 23:43	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.064	J	0.20	0.031	ppb v/v			03/18/14 23:43	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 23:43	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 23:43	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 23:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 23:43	1
1,2,4-Trimethylbenzene	0.098	J	0.20	0.063	ppb v/v			03/18/14 23:43	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 23:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 23:43	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 23:43	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 23:43	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 23:43	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 23:43	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 23:43	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 23:43	1
1,4-Dichlorobenzene	0.078	J	0.20	0.064	ppb v/v			03/18/14 23:43	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 23:43	1
2,2,4-Trimethylpentane	0.081	J	0.50	0.039	ppb v/v			03/18/14 23:43	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v			03/18/14 23:43	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 23:43	1
2-Methylbutane	2.6		0.50	0.031	ppb v/v			03/18/14 23:43	1
2-Methylpentane	0.24		0.20	0.20	ppb v/v			03/18/14 23:43	1
4-Ethyltoluene	0.072	J	0.40	0.066	ppb v/v			03/18/14 23:43	1
4-Methyl-2-pentanone (MIBK)	0.098	J	0.50	0.045	ppb v/v			03/18/14 23:43	1
Acetone	6.7		5.0	1.4	ppb v/v			03/18/14 23:43	1
Benzene	0.40		0.20	0.056	ppb v/v			03/18/14 23:43	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 23:43	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 23:43	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 23:43	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 23:43	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 23:43	1
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v			03/18/14 23:43	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 23:43	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 23:43	1
Chloroform	0.11	J	0.20	0.038	ppb v/v			03/18/14 23:43	1
Chloromethane	0.59		0.50	0.16	ppb v/v			03/18/14 23:43	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 23:43	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 23:43	1
Cyclohexane	0.38	J	0.50	0.040	ppb v/v			03/18/14 23:43	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 23:43	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/18/14 23:43	1
Ethanol	98		2.0	2.0	ppb v/v			03/18/14 23:43	1
Ethylbenzene	0.11	J	0.20	0.068	ppb v/v			03/18/14 23:43	1
Heptane	0.19	J	0.50	0.047	ppb v/v			03/18/14 23:43	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 23:43	1
Hexane	0.35	J	0.50	0.032	ppb v/v			03/18/14 23:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Date Collected: 03/13/14 16:40

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 23:43	1
Isopropyl alcohol	4.9		2.0	0.094	ppb v/v			03/18/14 23:43	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 23:43	1
Methylene Chloride	0.71		0.50	0.13	ppb v/v			03/18/14 23:43	1
m-Xylene & p-Xylene	0.32		0.20	0.12	ppb v/v			03/18/14 23:43	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 23:43	1
o-Xylene	0.13	J	0.20	0.061	ppb v/v			03/18/14 23:43	1
Propene	2.2	cn	0.50	0.077	ppb v/v			03/18/14 23:43	1
Styrene	0.068	J	0.20	0.058	ppb v/v			03/18/14 23:43	1
Tetrachloroethene	0.27		0.20	0.040	ppb v/v			03/18/14 23:43	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 23:43	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
Toluene	2.1		0.20	0.12	ppb v/v			03/18/14 23:43	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 23:43	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 23:43	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 23:43	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/18/14 23:43	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 23:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	J	1.5	0.24	ug/m3			03/18/14 23:43	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 23:43	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 23:43	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 23:43	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 23:43	1
1,2,4-Trimethylbenzene	0.48	J	0.98	0.31	ug/m3			03/18/14 23:43	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 23:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 23:43	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 23:43	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 23:43	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 23:43	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 23:43	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 23:43	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 23:43	1
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3			03/18/14 23:43	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 23:43	1
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3			03/18/14 23:43	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 23:43	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/18/14 23:43	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 23:43	1
2-Methylbutane	7.6		1.5	0.091	ug/m3			03/18/14 23:43	1
2-Methylpentane	0.84		0.70	0.70	ug/m3			03/18/14 23:43	1
4-Ethyltoluene	0.36	J	2.0	0.32	ug/m3			03/18/14 23:43	1
4-Methyl-2-pentanone (MIBK)	0.40	J	2.0	0.18	ug/m3			03/18/14 23:43	1
Acetone	16		12	3.3	ug/m3			03/18/14 23:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Date Collected: 03/13/14 16:40

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.64	0.18	ug/m3			03/18/14 23:43	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 23:43	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 23:43	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 23:43	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 23:43	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 23:43	1
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/18/14 23:43	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 23:43	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 23:43	1
Chloroform	0.56	J	0.98	0.19	ug/m3			03/18/14 23:43	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/18/14 23:43	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 23:43	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 23:43	1
Cyclohexane	1.3	J	1.7	0.14	ug/m3			03/18/14 23:43	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 23:43	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/18/14 23:43	1
Ethanol	190		3.8	3.8	ug/m3			03/18/14 23:43	1
Ethylbenzene	0.49	J	0.87	0.30	ug/m3			03/18/14 23:43	1
Heptane	0.76	J	2.0	0.19	ug/m3			03/18/14 23:43	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 23:43	1
Hexane	1.2	J	1.8	0.11	ug/m3			03/18/14 23:43	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 23:43	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 23:43	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/18/14 23:43	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 23:43	1
Methylene Chloride	2.5		1.7	0.45	ug/m3			03/18/14 23:43	1
m-Xylene & p-Xylene	1.4		0.87	0.52	ug/m3			03/18/14 23:43	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 23:43	1
o-Xylene	0.55	J	0.87	0.26	ug/m3			03/18/14 23:43	1
Propene	3.8	cn	0.86	0.13	ug/m3			03/18/14 23:43	1
Styrene	0.29	J	0.85	0.25	ug/m3			03/18/14 23:43	1
Tetrachloroethene	1.8		1.4	0.27	ug/m3			03/18/14 23:43	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 23:43	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 23:43	1
Toluene	8.0		0.75	0.45	ug/m3			03/18/14 23:43	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 23:43	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 23:43	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 23:43	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/18/14 23:43	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/18/14 23:43	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 00:36	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/19/14 00:36	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 00:36	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 00:36	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 00:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 00:36	1
1,2,4-Trimethylbenzene	0.065	J	0.20	0.063	ppb v/v			03/19/14 00:36	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 00:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 00:36	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 00:36	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 00:36	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 00:36	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 00:36	1
1,3-Butadiene	0.066	J	0.40	0.064	ppb v/v			03/19/14 00:36	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 00:36	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 00:36	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 00:36	1
2,2,4-Trimethylpentane	0.095	J	0.50	0.039	ppb v/v			03/19/14 00:36	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v			03/19/14 00:36	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 00:36	1
2-Methylbutane	0.44	J	0.50	0.031	ppb v/v			03/19/14 00:36	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 00:36	1
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v			03/19/14 00:36	1
Acetone	2.7	J	5.0	1.4	ppb v/v			03/19/14 00:36	1
Benzene	0.30		0.20	0.056	ppb v/v			03/19/14 00:36	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 00:36	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 00:36	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 00:36	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 00:36	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 00:36	1
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v			03/19/14 00:36	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 00:36	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 00:36	1
Chloroform	0.095	J	0.20	0.038	ppb v/v			03/19/14 00:36	1
Chloromethane	0.50		0.50	0.16	ppb v/v			03/19/14 00:36	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 00:36	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 00:36	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 00:36	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 00:36	1
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v			03/19/14 00:36	1
Ethanol	35		2.0	2.0	ppb v/v			03/19/14 00:36	1
Ethylbenzene	0.073	J	0.20	0.068	ppb v/v			03/19/14 00:36	1
Heptane	0.074	J	0.50	0.047	ppb v/v			03/19/14 00:36	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 00:36	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/19/14 00:36	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 00:36	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/19/14 00:36	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 00:36	1
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v			03/19/14 00:36	1
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v			03/19/14 00:36	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 00:36	1
o-Xylene	0.086	J	0.20	0.061	ppb v/v			03/19/14 00:36	1
Propene	0.97	cn	0.50	0.077	ppb v/v			03/19/14 00:36	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 00:36	1
Tetrachloroethene	0.25		0.20	0.040	ppb v/v			03/19/14 00:36	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 00:36	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
Toluene	0.42		0.20	0.12	ppb v/v			03/19/14 00:36	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 00:36	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 00:36	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 00:36	1
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v			03/19/14 00:36	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 00:36	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 00:36	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 00:36	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 00:36	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 00:36	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 00:36	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 00:36	1
1,2,4-Trimethylbenzene	0.32	J	0.98	0.31	ug/m3			03/19/14 00:36	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 00:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 00:36	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 00:36	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 00:36	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 00:36	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 00:36	1
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3			03/19/14 00:36	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 00:36	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 00:36	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 00:36	1
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3			03/19/14 00:36	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 00:36	1
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3			03/19/14 00:36	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 00:36	1
2-Methylbutane	1.3	J	1.5	0.091	ug/m3			03/19/14 00:36	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 00:36	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 00:36	1
4-Methyl-2-pentanone (MIBK)	0.56	J	2.0	0.18	ug/m3			03/19/14 00:36	1
Acetone	6.5	J	12	3.3	ug/m3			03/19/14 00:36	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.95		0.64	0.18	ug/m3			03/19/14 00:36	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 00:36	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 00:36	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 00:36	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 00:36	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 00:36	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/19/14 00:36	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 00:36	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 00:36	1
Chloroform	0.47	J	0.98	0.19	ug/m3			03/19/14 00:36	1
Chloromethane	1.0		1.0	0.33	ug/m3			03/19/14 00:36	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 00:36	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 00:36	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 00:36	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 00:36	1
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3			03/19/14 00:36	1
Ethanol	66		3.8	3.8	ug/m3			03/19/14 00:36	1
Ethylbenzene	0.32	J	0.87	0.30	ug/m3			03/19/14 00:36	1
Heptane	0.30	J	2.0	0.19	ug/m3			03/19/14 00:36	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 00:36	1
Hexane	0.51	J	1.8	0.11	ug/m3			03/19/14 00:36	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 00:36	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 00:36	1
Isopropyl alcohol	2.9	J	4.9	0.23	ug/m3			03/19/14 00:36	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 00:36	1
Methylene Chloride	0.99	J	1.7	0.45	ug/m3			03/19/14 00:36	1
m-Xylene & p-Xylene	0.95		0.87	0.52	ug/m3			03/19/14 00:36	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 00:36	1
o-Xylene	0.37	J	0.87	0.26	ug/m3			03/19/14 00:36	1
Propene	1.7	cn	0.86	0.13	ug/m3			03/19/14 00:36	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 00:36	1
Tetrachloroethene	1.7		1.4	0.27	ug/m3			03/19/14 00:36	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 00:36	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 00:36	1
Toluene	1.6		0.75	0.45	ug/m3			03/19/14 00:36	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 00:36	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 00:36	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 00:36	1
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3			03/19/14 00:36	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/19/14 00:36	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Date Collected: 03/13/14 15:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 01:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v			03/19/14 01:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 01:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 01:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 01:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 01:31	1
1,2,4-Trimethylbenzene	0.090	J	0.20	0.063	ppb v/v			03/19/14 01:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 01:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 01:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 01:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 01:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 01:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 01:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 01:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 01:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 01:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 01:31	1
2,2,4-Trimethylpentane	0.12	J	0.50	0.039	ppb v/v			03/19/14 01:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
2-Butanone (MEK)	0.21	J	1.0	0.20	ppb v/v			03/19/14 01:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 01:31	1
2-Methylbutane	0.53		0.50	0.031	ppb v/v			03/19/14 01:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 01:31	1
4-Methyl-2-pentanone (MIBK)	0.49	J	0.50	0.045	ppb v/v			03/19/14 01:31	1
Acetone	2.4	J	5.0	1.4	ppb v/v			03/19/14 01:31	1
Benzene	0.31		0.20	0.056	ppb v/v			03/19/14 01:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 01:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 01:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 01:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 01:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 01:31	1
Carbon tetrachloride	0.075	J	0.20	0.038	ppb v/v			03/19/14 01:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 01:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 01:31	1
Chloroform	0.37		0.20	0.038	ppb v/v			03/19/14 01:31	1
Chloromethane	0.51		0.50	0.16	ppb v/v			03/19/14 01:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 01:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 01:31	1
Cyclohexane	0.048	J	0.50	0.040	ppb v/v			03/19/14 01:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 01:31	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 01:31	1
Ethanol	36		2.0	2.0	ppb v/v			03/19/14 01:31	1
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v			03/19/14 01:31	1
Heptane	0.086	J	0.50	0.047	ppb v/v			03/19/14 01:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 01:31	1
Hexane	0.22	J	0.50	0.032	ppb v/v			03/19/14 01:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Date Collected: 03/13/14 15:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 01:31	1
Isopropyl alcohol	4.8		2.0	0.094	ppb v/v			03/19/14 01:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 01:31	1
Methylene Chloride	0.42	J	0.50	0.13	ppb v/v			03/19/14 01:31	1
m-Xylene & p-Xylene	0.30		0.20	0.12	ppb v/v			03/19/14 01:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 01:31	1
o-Xylene	0.12	J	0.20	0.061	ppb v/v			03/19/14 01:31	1
Propene	0.77	cn	0.50	0.077	ppb v/v			03/19/14 01:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 01:31	1
Tetrachloroethene	0.19	J	0.20	0.040	ppb v/v			03/19/14 01:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 01:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
Toluene	0.62		0.20	0.12	ppb v/v			03/19/14 01:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 01:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 01:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 01:31	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 01:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 01:31	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 01:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/19/14 01:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 01:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 01:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 01:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 01:31	1
1,2,4-Trimethylbenzene	0.44	J	0.98	0.31	ug/m3			03/19/14 01:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 01:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 01:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 01:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 01:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 01:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 01:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 01:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 01:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 01:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 01:31	1
2,2,4-Trimethylpentane	0.58	J	2.3	0.18	ug/m3			03/19/14 01:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 01:31	1
2-Butanone (MEK)	0.61	J	2.9	0.59	ug/m3			03/19/14 01:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 01:31	1
2-Methylbutane	1.6		1.5	0.091	ug/m3			03/19/14 01:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 01:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 01:31	1
4-Methyl-2-pentanone (MIBK)	2.0	J	2.0	0.18	ug/m3			03/19/14 01:31	1
Acetone	5.6	J	12	3.3	ug/m3			03/19/14 01:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Date Collected: 03/13/14 15:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.98		0.64	0.18	ug/m3			03/19/14 01:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 01:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 01:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 01:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 01:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 01:31	1
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3			03/19/14 01:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 01:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 01:31	1
Chloroform	1.8		0.98	0.19	ug/m3			03/19/14 01:31	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 01:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 01:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 01:31	1
Cyclohexane	0.17	J	1.7	0.14	ug/m3			03/19/14 01:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 01:31	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 01:31	1
Ethanol	67		3.8	3.8	ug/m3			03/19/14 01:31	1
Ethylbenzene	0.44	J	0.87	0.30	ug/m3			03/19/14 01:31	1
Heptane	0.35	J	2.0	0.19	ug/m3			03/19/14 01:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 01:31	1
Hexane	0.77	J	1.8	0.11	ug/m3			03/19/14 01:31	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 01:31	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 01:31	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/19/14 01:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 01:31	1
Methylene Chloride	1.5	J	1.7	0.45	ug/m3			03/19/14 01:31	1
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3			03/19/14 01:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 01:31	1
o-Xylene	0.51	J	0.87	0.26	ug/m3			03/19/14 01:31	1
Propene	1.3	cn	0.86	0.13	ug/m3			03/19/14 01:31	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 01:31	1
Tetrachloroethene	1.3	J	1.4	0.27	ug/m3			03/19/14 01:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 01:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 01:31	1
Toluene	2.3		0.75	0.45	ug/m3			03/19/14 01:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 01:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 01:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 01:31	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 01:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		60 - 140					03/19/14 01:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Date Collected: 03/13/14 16:48

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 02:25	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/19/14 02:25	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 02:25	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 02:25	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 02:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 02:25	1
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v			03/19/14 02:25	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 02:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 02:25	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 02:25	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 02:25	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 02:25	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 02:25	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 02:25	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 02:25	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 02:25	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 02:25	1
2,2,4-Trimethylpentane	0.059	J	0.50	0.039	ppb v/v			03/19/14 02:25	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v			03/19/14 02:25	1
2-Hexanone	0.13	J	0.50	0.058	ppb v/v			03/19/14 02:25	1
2-Methylbutane	0.29	J	0.50	0.031	ppb v/v			03/19/14 02:25	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 02:25	1
4-Methyl-2-pentanone (MIBK)	0.52		0.50	0.045	ppb v/v			03/19/14 02:25	1
Acetone	6.0		5.0	1.4	ppb v/v			03/19/14 02:25	1
Benzene	0.24		0.20	0.056	ppb v/v			03/19/14 02:25	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 02:25	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 02:25	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 02:25	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 02:25	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 02:25	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/19/14 02:25	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 02:25	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 02:25	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 02:25	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/19/14 02:25	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 02:25	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 02:25	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 02:25	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 02:25	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/19/14 02:25	1
Ethanol	9.2		2.0	2.0	ppb v/v			03/19/14 02:25	1
Ethylbenzene	0.075	J	0.20	0.068	ppb v/v			03/19/14 02:25	1
Heptane	0.055	J	0.50	0.047	ppb v/v			03/19/14 02:25	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 02:25	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/19/14 02:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Date Collected: 03/13/14 16:48

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 02:25	1
Isopropyl alcohol	0.99	J	2.0	0.094	ppb v/v			03/19/14 02:25	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 02:25	1
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v			03/19/14 02:25	1
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v			03/19/14 02:25	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 02:25	1
o-Xylene	0.087	J	0.20	0.061	ppb v/v			03/19/14 02:25	1
Propene	0.79	cn	0.50	0.077	ppb v/v			03/19/14 02:25	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 02:25	1
Tetrachloroethene	0.33		0.20	0.040	ppb v/v			03/19/14 02:25	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 02:25	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
Toluene	0.39		0.20	0.12	ppb v/v			03/19/14 02:25	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 02:25	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 02:25	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 02:25	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 02:25	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 02:25	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 02:25	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/19/14 02:25	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 02:25	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 02:25	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 02:25	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 02:25	1
1,2,4-Trimethylbenzene	0.33	J	0.98	0.31	ug/m3			03/19/14 02:25	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 02:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 02:25	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 02:25	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 02:25	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 02:25	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 02:25	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 02:25	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 02:25	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 02:25	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 02:25	1
2,2,4-Trimethylpentane	0.28	J	2.3	0.18	ug/m3			03/19/14 02:25	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 02:25	1
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3			03/19/14 02:25	1
2-Hexanone	0.52	J	2.0	0.24	ug/m3			03/19/14 02:25	1
2-Methylbutane	0.85	J	1.5	0.091	ug/m3			03/19/14 02:25	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 02:25	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 02:25	1
4-Methyl-2-pentanone (MIBK)	2.1		2.0	0.18	ug/m3			03/19/14 02:25	1
Acetone	14		12	3.3	ug/m3			03/19/14 02:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Date Collected: 03/13/14 16:48

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.77		0.64	0.18	ug/m3			03/19/14 02:25	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 02:25	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 02:25	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 02:25	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 02:25	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 02:25	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 02:25	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 02:25	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 02:25	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 02:25	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 02:25	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 02:25	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 02:25	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 02:25	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 02:25	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 02:25	1
Ethanol	17		3.8	3.8	ug/m3			03/19/14 02:25	1
Ethylbenzene	0.33	J	0.87	0.30	ug/m3			03/19/14 02:25	1
Heptane	0.22	J	2.0	0.19	ug/m3			03/19/14 02:25	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 02:25	1
Hexane	0.49	J	1.8	0.11	ug/m3			03/19/14 02:25	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 02:25	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 02:25	1
Isopropyl alcohol	2.4	J	4.9	0.23	ug/m3			03/19/14 02:25	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 02:25	1
Methylene Chloride	0.95	J	1.7	0.45	ug/m3			03/19/14 02:25	1
m-Xylene & p-Xylene	0.96		0.87	0.52	ug/m3			03/19/14 02:25	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 02:25	1
o-Xylene	0.38	J	0.87	0.26	ug/m3			03/19/14 02:25	1
Propene	1.4	cn	0.86	0.13	ug/m3			03/19/14 02:25	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 02:25	1
Tetrachloroethene	2.2		1.4	0.27	ug/m3			03/19/14 02:25	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 02:25	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 02:25	1
Toluene	1.5		0.75	0.45	ug/m3			03/19/14 02:25	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 02:25	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 02:25	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 02:25	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 02:25	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		60 - 140					03/19/14 02:25	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Date Collected: 03/13/14 16:49

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 03:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/19/14 03:20	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 03:20	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 03:20	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 03:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 03:20	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 03:20	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 03:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 03:20	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 03:20	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 03:20	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 03:20	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 03:20	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 03:20	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 03:20	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 03:20	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 03:20	1
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v			03/19/14 03:20	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
2-Butanone (MEK)	0.61	J	1.0	0.20	ppb v/v			03/19/14 03:20	1
2-Hexanone	0.058	J	0.50	0.058	ppb v/v			03/19/14 03:20	1
2-Methylbutane	0.27	J	0.50	0.031	ppb v/v			03/19/14 03:20	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 03:20	1
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v			03/19/14 03:20	1
Acetone	3.2	J	5.0	1.4	ppb v/v			03/19/14 03:20	1
Benzene	0.22		0.20	0.056	ppb v/v			03/19/14 03:20	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 03:20	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 03:20	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 03:20	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 03:20	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 03:20	1
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/19/14 03:20	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 03:20	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 03:20	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 03:20	1
Chloromethane	0.49	J	0.50	0.16	ppb v/v			03/19/14 03:20	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 03:20	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 03:20	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 03:20	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 03:20	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/19/14 03:20	1
Ethanol	8.0		2.0	2.0	ppb v/v			03/19/14 03:20	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 03:20	1
Heptane	0.057	J	0.50	0.047	ppb v/v			03/19/14 03:20	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 03:20	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/19/14 03:20	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Date Collected: 03/13/14 16:49

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 03:20	1
Isopropyl alcohol	0.64	J	2.0	0.094	ppb v/v			03/19/14 03:20	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 03:20	1
Methylene Chloride	0.23	J	0.50	0.13	ppb v/v			03/19/14 03:20	1
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v			03/19/14 03:20	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 03:20	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 03:20	1
Propene	0.60	cn	0.50	0.077	ppb v/v			03/19/14 03:20	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 03:20	1
Tetrachloroethene	0.55		0.20	0.040	ppb v/v			03/19/14 03:20	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 03:20	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
Toluene	0.29		0.20	0.12	ppb v/v			03/19/14 03:20	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 03:20	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 03:20	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 03:20	1
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v			03/19/14 03:20	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 03:20	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 03:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/19/14 03:20	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 03:20	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 03:20	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 03:20	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 03:20	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 03:20	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 03:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 03:20	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 03:20	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 03:20	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 03:20	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 03:20	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 03:20	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 03:20	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 03:20	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 03:20	1
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3			03/19/14 03:20	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 03:20	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/19/14 03:20	1
2-Hexanone	0.24	J	2.0	0.24	ug/m3			03/19/14 03:20	1
2-Methylbutane	0.80	J	1.5	0.091	ug/m3			03/19/14 03:20	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 03:20	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 03:20	1
4-Methyl-2-pentanone (MIBK)	0.60	J	2.0	0.18	ug/m3			03/19/14 03:20	1
Acetone	7.5	J	12	3.3	ug/m3			03/19/14 03:20	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Date Collected: 03/13/14 16:49

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.69		0.64	0.18	ug/m3			03/19/14 03:20	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 03:20	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 03:20	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 03:20	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 03:20	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 03:20	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 03:20	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 03:20	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 03:20	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 03:20	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/19/14 03:20	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 03:20	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 03:20	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 03:20	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 03:20	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 03:20	1
Ethanol	15		3.8	3.8	ug/m3			03/19/14 03:20	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 03:20	1
Heptane	0.23	J	2.0	0.19	ug/m3			03/19/14 03:20	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 03:20	1
Hexane	0.40	J	1.8	0.11	ug/m3			03/19/14 03:20	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 03:20	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 03:20	1
Isopropyl alcohol	1.6	J	4.9	0.23	ug/m3			03/19/14 03:20	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 03:20	1
Methylene Chloride	0.81	J	1.7	0.45	ug/m3			03/19/14 03:20	1
m-Xylene & p-Xylene	0.61	J	0.87	0.52	ug/m3			03/19/14 03:20	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 03:20	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 03:20	1
Propene	1.0	cn	0.86	0.13	ug/m3			03/19/14 03:20	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 03:20	1
Tetrachloroethene	3.7		1.4	0.27	ug/m3			03/19/14 03:20	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 03:20	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 03:20	1
Toluene	1.1		0.75	0.45	ug/m3			03/19/14 03:20	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 03:20	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 03:20	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 03:20	1
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3			03/19/14 03:20	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		60 - 140					03/19/14 03:20	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Date Collected: 03/12/14 16:00

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 04:13	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 04:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/19/14 04:13	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 04:13	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 04:13	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 04:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 04:13	1
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v			03/19/14 04:13	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 04:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 04:13	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 04:13	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 04:13	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 04:13	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 04:13	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 04:13	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 04:13	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 04:13	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 04:13	1
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v			03/19/14 04:13	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
2-Butanone (MEK)	0.75	J	1.0	0.20	ppb v/v			03/19/14 04:13	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 04:13	1
2-Methylbutane	1.1		0.50	0.031	ppb v/v			03/19/14 04:13	1
2-Methylpentane	0.25		0.20	0.20	ppb v/v			03/19/14 04:13	1
4-Ethyltoluene	0.16	J	0.40	0.066	ppb v/v			03/19/14 04:13	1
4-Methyl-2-pentanone (MIBK)	0.60		0.50	0.045	ppb v/v			03/19/14 04:13	1
Acetone	4.6	J	5.0	1.4	ppb v/v			03/19/14 04:13	1
Benzene	0.39		0.20	0.056	ppb v/v			03/19/14 04:13	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 04:13	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 04:13	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 04:13	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 04:13	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 04:13	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/19/14 04:13	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 04:13	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 04:13	1
Chloroform	0.16	J	0.20	0.038	ppb v/v			03/19/14 04:13	1
Chloromethane	0.57		0.50	0.16	ppb v/v			03/19/14 04:13	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 04:13	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 04:13	1
Cyclohexane	0.072	J	0.50	0.040	ppb v/v			03/19/14 04:13	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 04:13	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/19/14 04:13	1
Ethanol	53		2.0	2.0	ppb v/v			03/19/14 04:13	1
Ethylbenzene	0.38		0.20	0.068	ppb v/v			03/19/14 04:13	1
Heptane	0.19	J	0.50	0.047	ppb v/v			03/19/14 04:13	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 04:13	1
Hexane	0.29	J	0.50	0.032	ppb v/v			03/19/14 04:13	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Date Collected: 03/12/14 16:00

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 04:13	1
Isopropyl alcohol	2.4		2.0	0.094	ppb v/v			03/19/14 04:13	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 04:13	1
Methylene Chloride	3.6		0.50	0.13	ppb v/v			03/19/14 04:13	1
m-Xylene & p-Xylene	1.7		0.20	0.12	ppb v/v			03/19/14 04:13	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 04:13	1
o-Xylene	0.68		0.20	0.061	ppb v/v			03/19/14 04:13	1
Propene	0.97	cn	0.50	0.077	ppb v/v			03/19/14 04:13	1
Styrene	0.14	J	0.20	0.058	ppb v/v			03/19/14 04:13	1
Tetrachloroethene	0.22		0.20	0.040	ppb v/v			03/19/14 04:13	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 04:13	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 04:13	1
Toluene	1.4		0.20	0.12	ppb v/v			03/19/14 04:13	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 04:13	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 04:13	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 04:13	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 04:13	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 04:13	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 04:13	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 04:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 04:13	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 04:13	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 04:13	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 04:13	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 04:13	1
1,2,4-Trimethylbenzene	0.75	J	0.98	0.31	ug/m3			03/19/14 04:13	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 04:13	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 04:13	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 04:13	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 04:13	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 04:13	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 04:13	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 04:13	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 04:13	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 04:13	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 04:13	1
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3			03/19/14 04:13	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 04:13	1
2-Butanone (MEK)	2.2	J	2.9	0.59	ug/m3			03/19/14 04:13	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 04:13	1
2-Methylbutane	3.2		1.5	0.091	ug/m3			03/19/14 04:13	1
2-Methylpentane	0.88		0.70	0.70	ug/m3			03/19/14 04:13	1
4-Ethyltoluene	0.78	J	2.0	0.32	ug/m3			03/19/14 04:13	1
4-Methyl-2-pentanone (MIBK)	2.5		2.0	0.18	ug/m3			03/19/14 04:13	1
Acetone	11	J	12	3.3	ug/m3			03/19/14 04:13	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Date Collected: 03/12/14 16:00

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 04:13	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 04:13	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 04:13	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 04:13	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 04:13	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 04:13	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 04:13	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 04:13	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 04:13	1
Chloroform	0.78	J	0.98	0.19	ug/m3			03/19/14 04:13	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 04:13	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 04:13	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 04:13	1
Cyclohexane	0.25	J	1.7	0.14	ug/m3			03/19/14 04:13	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 04:13	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 04:13	1
Ethanol	99		3.8	3.8	ug/m3			03/19/14 04:13	1
Ethylbenzene	1.7		0.87	0.30	ug/m3			03/19/14 04:13	1
Heptane	0.79	J	2.0	0.19	ug/m3			03/19/14 04:13	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 04:13	1
Hexane	1.0	J	1.8	0.11	ug/m3			03/19/14 04:13	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 04:13	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 04:13	1
Isopropyl alcohol	5.8		4.9	0.23	ug/m3			03/19/14 04:13	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 04:13	1
Methylene Chloride	13		1.7	0.45	ug/m3			03/19/14 04:13	1
m-Xylene & p-Xylene	7.3		0.87	0.52	ug/m3			03/19/14 04:13	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 04:13	1
o-Xylene	3.0		0.87	0.26	ug/m3			03/19/14 04:13	1
Propene	1.7	cn	0.86	0.13	ug/m3			03/19/14 04:13	1
Styrene	0.61	J	0.85	0.25	ug/m3			03/19/14 04:13	1
Tetrachloroethene	1.5		1.4	0.27	ug/m3			03/19/14 04:13	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 04:13	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 04:13	1
Toluene	5.3		0.75	0.45	ug/m3			03/19/14 04:13	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 04:13	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 04:13	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 04:13	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 04:13	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140					03/19/14 04:13	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B7

Lab Sample ID: 140-1063-9

Date Collected: 03/12/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 05:07	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 05:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/19/14 05:07	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 05:07	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 05:07	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 05:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 05:07	1
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v			03/19/14 05:07	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 05:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 05:07	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 05:07	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 05:07	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 05:07	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 05:07	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 05:07	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 05:07	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 05:07	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 05:07	1
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v			03/19/14 05:07	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v			03/19/14 05:07	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 05:07	1
2-Methylbutane	0.92		0.50	0.031	ppb v/v			03/19/14 05:07	1
2-Methylpentane	0.23		0.20	0.20	ppb v/v			03/19/14 05:07	1
4-Ethyltoluene	0.13	J	0.40	0.066	ppb v/v			03/19/14 05:07	1
4-Methyl-2-pentanone (MIBK)	0.21	J	0.50	0.045	ppb v/v			03/19/14 05:07	1
Acetone	3.8	J	5.0	1.4	ppb v/v			03/19/14 05:07	1
Benzene	0.36		0.20	0.056	ppb v/v			03/19/14 05:07	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 05:07	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 05:07	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 05:07	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 05:07	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 05:07	1
Carbon tetrachloride	0.065	J	0.20	0.038	ppb v/v			03/19/14 05:07	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 05:07	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 05:07	1
Chloroform	0.056	J	0.20	0.038	ppb v/v			03/19/14 05:07	1
Chloromethane	0.58		0.50	0.16	ppb v/v			03/19/14 05:07	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 05:07	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 05:07	1
Cyclohexane	0.068	J	0.50	0.040	ppb v/v			03/19/14 05:07	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 05:07	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/19/14 05:07	1
Ethanol	23		2.0	2.0	ppb v/v			03/19/14 05:07	1
Ethylbenzene	0.23		0.20	0.068	ppb v/v			03/19/14 05:07	1
Heptane	0.15	J	0.50	0.047	ppb v/v			03/19/14 05:07	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 05:07	1
Hexane	0.36	J	0.50	0.032	ppb v/v			03/19/14 05:07	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B7

Lab Sample ID: 140-1063-9

Date Collected: 03/12/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 05:07	1
Isopropyl alcohol	1.4	J	2.0	0.094	ppb v/v			03/19/14 05:07	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 05:07	1
Methylene Chloride	0.82		0.50	0.13	ppb v/v			03/19/14 05:07	1
m-Xylene & p-Xylene	0.94		0.20	0.12	ppb v/v			03/19/14 05:07	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 05:07	1
o-Xylene	0.38		0.20	0.061	ppb v/v			03/19/14 05:07	1
Propene	1.1	cn	0.50	0.077	ppb v/v			03/19/14 05:07	1
Styrene	0.073	J	0.20	0.058	ppb v/v			03/19/14 05:07	1
Tetrachloroethene	0.14	J	0.20	0.040	ppb v/v			03/19/14 05:07	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 05:07	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 05:07	1
Toluene	1.1		0.20	0.12	ppb v/v			03/19/14 05:07	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 05:07	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 05:07	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 05:07	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 05:07	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 05:07	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 05:07	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 05:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3			03/19/14 05:07	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 05:07	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 05:07	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 05:07	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 05:07	1
1,2,4-Trimethylbenzene	0.81	J	0.98	0.31	ug/m3			03/19/14 05:07	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 05:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 05:07	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 05:07	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 05:07	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 05:07	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 05:07	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 05:07	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 05:07	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 05:07	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 05:07	1
2,2,4-Trimethylpentane	0.63	J	2.3	0.18	ug/m3			03/19/14 05:07	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 05:07	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/19/14 05:07	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 05:07	1
2-Methylbutane	2.7		1.5	0.091	ug/m3			03/19/14 05:07	1
2-Methylpentane	0.83		0.70	0.70	ug/m3			03/19/14 05:07	1
4-Ethyltoluene	0.62	J	2.0	0.32	ug/m3			03/19/14 05:07	1
4-Methyl-2-pentanone (MIBK)	0.86	J	2.0	0.18	ug/m3			03/19/14 05:07	1
Acetone	8.9	J	12	3.3	ug/m3			03/19/14 05:07	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B7

Lab Sample ID: 140-1063-9

Date Collected: 03/12/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1		0.64	0.18	ug/m3			03/19/14 05:07	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 05:07	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 05:07	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 05:07	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 05:07	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 05:07	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/19/14 05:07	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 05:07	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 05:07	1
Chloroform	0.27	J	0.98	0.19	ug/m3			03/19/14 05:07	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 05:07	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 05:07	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 05:07	1
Cyclohexane	0.23	J	1.7	0.14	ug/m3			03/19/14 05:07	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 05:07	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 05:07	1
Ethanol	44		3.8	3.8	ug/m3			03/19/14 05:07	1
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/19/14 05:07	1
Heptane	0.60	J	2.0	0.19	ug/m3			03/19/14 05:07	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 05:07	1
Hexane	1.3	J	1.8	0.11	ug/m3			03/19/14 05:07	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 05:07	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 05:07	1
Isopropyl alcohol	3.5	J	4.9	0.23	ug/m3			03/19/14 05:07	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 05:07	1
Methylene Chloride	2.8		1.7	0.45	ug/m3			03/19/14 05:07	1
m-Xylene & p-Xylene	4.1		0.87	0.52	ug/m3			03/19/14 05:07	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 05:07	1
o-Xylene	1.6		0.87	0.26	ug/m3			03/19/14 05:07	1
Propene	1.8	cn	0.86	0.13	ug/m3			03/19/14 05:07	1
Styrene	0.31	J	0.85	0.25	ug/m3			03/19/14 05:07	1
Tetrachloroethene	0.97	J	1.4	0.27	ug/m3			03/19/14 05:07	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 05:07	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 05:07	1
Toluene	4.2		0.75	0.45	ug/m3			03/19/14 05:07	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 05:07	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 05:07	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 05:07	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 05:07	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 05:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/19/14 05:07	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11

Lab Sample ID: 140-1063-10

Date Collected: 03/12/14 16:34

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 06:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/19/14 06:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 06:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 06:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 06:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 06:01	1
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v			03/19/14 06:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 06:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 06:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 06:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 06:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 06:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:01	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 06:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:01	1
1,4-Dichlorobenzene	0.096	J	0.20	0.064	ppb v/v			03/19/14 06:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 06:01	1
2,2,4-Trimethylpentane	0.17	J	0.50	0.039	ppb v/v			03/19/14 06:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v			03/19/14 06:01	1
2-Hexanone	0.099	J	0.50	0.058	ppb v/v			03/19/14 06:01	1
2-Methylbutane	2.5		0.50	0.031	ppb v/v			03/19/14 06:01	1
2-Methylpentane	0.40		0.20	0.20	ppb v/v			03/19/14 06:01	1
4-Ethyltoluene	0.17	J	0.40	0.066	ppb v/v			03/19/14 06:01	1
4-Methyl-2-pentanone (MIBK)	0.34	J	0.50	0.045	ppb v/v			03/19/14 06:01	1
Acetone	8.5		5.0	1.4	ppb v/v			03/19/14 06:01	1
Benzene	0.39		0.20	0.056	ppb v/v			03/19/14 06:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 06:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 06:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 06:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 06:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 06:01	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/19/14 06:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 06:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 06:01	1
Chloroform	0.14	J	0.20	0.038	ppb v/v			03/19/14 06:01	1
Chloromethane	0.57		0.50	0.16	ppb v/v			03/19/14 06:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 06:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 06:01	1
Cyclohexane	0.13	J	0.50	0.040	ppb v/v			03/19/14 06:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 06:01	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 06:01	1
Ethanol	160		2.0	2.0	ppb v/v			03/19/14 06:01	1
Ethylbenzene	0.21		0.20	0.068	ppb v/v			03/19/14 06:01	1
Heptane	0.19	J	0.50	0.047	ppb v/v			03/19/14 06:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 06:01	1
Hexane	0.50		0.50	0.032	ppb v/v			03/19/14 06:01	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11

Lab Sample ID: 140-1063-10

Date Collected: 03/12/14 16:34

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 06:01	1
Isopropyl alcohol	8.7		2.0	0.094	ppb v/v			03/19/14 06:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 06:01	1
Methylene Chloride	0.60		0.50	0.13	ppb v/v			03/19/14 06:01	1
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v			03/19/14 06:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 06:01	1
o-Xylene	0.32		0.20	0.061	ppb v/v			03/19/14 06:01	1
Propene	5.1	cn	0.50	0.077	ppb v/v			03/19/14 06:01	1
Styrene	0.070	J	0.20	0.058	ppb v/v			03/19/14 06:01	1
Tetrachloroethene	0.20		0.20	0.040	ppb v/v			03/19/14 06:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 06:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 06:01	1
Toluene	1.2		0.20	0.12	ppb v/v			03/19/14 06:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 06:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 06:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 06:01	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 06:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 06:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 06:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 06:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 06:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 06:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 06:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 06:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 06:01	1
1,2,4-Trimethylbenzene	0.79	J	0.98	0.31	ug/m3			03/19/14 06:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 06:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 06:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 06:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 06:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 06:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 06:01	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 06:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 06:01	1
1,4-Dichlorobenzene	0.58	J	1.2	0.38	ug/m3			03/19/14 06:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 06:01	1
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3			03/19/14 06:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 06:01	1
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3			03/19/14 06:01	1
2-Hexanone	0.41	J	2.0	0.24	ug/m3			03/19/14 06:01	1
2-Methylbutane	7.3		1.5	0.091	ug/m3			03/19/14 06:01	1
2-Methylpentane	1.4		0.70	0.70	ug/m3			03/19/14 06:01	1
4-Ethyltoluene	0.85	J	2.0	0.32	ug/m3			03/19/14 06:01	1
4-Methyl-2-pentanone (MIBK)	1.4	J	2.0	0.18	ug/m3			03/19/14 06:01	1
Acetone	20		12	3.3	ug/m3			03/19/14 06:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B11

Lab Sample ID: 140-1063-10

Date Collected: 03/12/14 16:34

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 06:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 06:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 06:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 06:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 06:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 06:01	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 06:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 06:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 06:01	1
Chloroform	0.67	J	0.98	0.19	ug/m3			03/19/14 06:01	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 06:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 06:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 06:01	1
Cyclohexane	0.43	J	1.7	0.14	ug/m3			03/19/14 06:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 06:01	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 06:01	1
Ethanol	290		3.8	3.8	ug/m3			03/19/14 06:01	1
Ethylbenzene	0.90		0.87	0.30	ug/m3			03/19/14 06:01	1
Heptane	0.77	J	2.0	0.19	ug/m3			03/19/14 06:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 06:01	1
Hexane	1.8		1.8	0.11	ug/m3			03/19/14 06:01	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 06:01	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 06:01	1
Isopropyl alcohol	21		4.9	0.23	ug/m3			03/19/14 06:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 06:01	1
Methylene Chloride	2.1		1.7	0.45	ug/m3			03/19/14 06:01	1
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3			03/19/14 06:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 06:01	1
o-Xylene	1.4		0.87	0.26	ug/m3			03/19/14 06:01	1
Propene	8.8	cn	0.86	0.13	ug/m3			03/19/14 06:01	1
Styrene	0.30	J	0.85	0.25	ug/m3			03/19/14 06:01	1
Tetrachloroethene	1.3		1.4	0.27	ug/m3			03/19/14 06:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 06:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 06:01	1
Toluene	4.5		0.75	0.45	ug/m3			03/19/14 06:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 06:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 06:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 06:01	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 06:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 06:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/19/14 06:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B11

Lab Sample ID: 140-1063-11

Date Collected: 03/12/14 16:32

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 06:56	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/19/14 06:56	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 06:56	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 06:56	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 06:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 06:56	1
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v			03/19/14 06:56	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 06:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 06:56	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 06:56	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 06:56	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 06:56	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:56	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 06:56	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 06:56	1
1,4-Dichlorobenzene	0.10	J	0.20	0.064	ppb v/v			03/19/14 06:56	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 06:56	1
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v			03/19/14 06:56	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
2-Butanone (MEK)	0.83	J	1.0	0.20	ppb v/v			03/19/14 06:56	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 06:56	1
2-Methylbutane	1.5		0.50	0.031	ppb v/v			03/19/14 06:56	1
2-Methylpentane	0.29		0.20	0.20	ppb v/v			03/19/14 06:56	1
4-Ethyltoluene	0.099	J	0.40	0.066	ppb v/v			03/19/14 06:56	1
4-Methyl-2-pentanone (MIBK)	0.46	J	0.50	0.045	ppb v/v			03/19/14 06:56	1
Acetone	5.5		5.0	1.4	ppb v/v			03/19/14 06:56	1
Benzene	0.37		0.20	0.056	ppb v/v			03/19/14 06:56	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 06:56	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 06:56	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 06:56	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 06:56	1
Carbon disulfide	0.042	J	0.50	0.031	ppb v/v			03/19/14 06:56	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/19/14 06:56	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 06:56	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 06:56	1
Chloroform	0.077	J	0.20	0.038	ppb v/v			03/19/14 06:56	1
Chloromethane	0.64		0.50	0.16	ppb v/v			03/19/14 06:56	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 06:56	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 06:56	1
Cyclohexane	0.090	J	0.50	0.040	ppb v/v			03/19/14 06:56	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 06:56	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/19/14 06:56	1
Ethanol	56		2.0	2.0	ppb v/v			03/19/14 06:56	1
Ethylbenzene	0.18	J	0.20	0.068	ppb v/v			03/19/14 06:56	1
Heptane	0.18	J	0.50	0.047	ppb v/v			03/19/14 06:56	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 06:56	1
Hexane	0.31	J	0.50	0.032	ppb v/v			03/19/14 06:56	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B11

Lab Sample ID: 140-1063-11

Date Collected: 03/12/14 16:32

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 06:56	1
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v			03/19/14 06:56	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 06:56	1
Methylene Chloride	0.47	J	0.50	0.13	ppb v/v			03/19/14 06:56	1
m-Xylene & p-Xylene	0.61		0.20	0.12	ppb v/v			03/19/14 06:56	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 06:56	1
o-Xylene	0.24		0.20	0.061	ppb v/v			03/19/14 06:56	1
Propene	1.9	cn	0.50	0.077	ppb v/v			03/19/14 06:56	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 06:56	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/19/14 06:56	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 06:56	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 06:56	1
Toluene	1.1		0.20	0.12	ppb v/v			03/19/14 06:56	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 06:56	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 06:56	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 06:56	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 06:56	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 06:56	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 06:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/19/14 06:56	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 06:56	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 06:56	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 06:56	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 06:56	1
1,2,4-Trimethylbenzene	0.64	J	0.98	0.31	ug/m3			03/19/14 06:56	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 06:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 06:56	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 06:56	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 06:56	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 06:56	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 06:56	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 06:56	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 06:56	1
1,4-Dichlorobenzene	0.61	J	1.2	0.38	ug/m3			03/19/14 06:56	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 06:56	1
2,2,4-Trimethylpentane	0.72	J	2.3	0.18	ug/m3			03/19/14 06:56	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 06:56	1
2-Butanone (MEK)	2.5	J	2.9	0.59	ug/m3			03/19/14 06:56	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 06:56	1
2-Methylbutane	4.4		1.5	0.091	ug/m3			03/19/14 06:56	1
2-Methylpentane	1.0		0.70	0.70	ug/m3			03/19/14 06:56	1
4-Ethyltoluene	0.49	J	2.0	0.32	ug/m3			03/19/14 06:56	1
4-Methyl-2-pentanone (MIBK)	1.9	J	2.0	0.18	ug/m3			03/19/14 06:56	1
Acetone	13		12	3.3	ug/m3			03/19/14 06:56	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B11

Lab Sample ID: 140-1063-11

Date Collected: 03/12/14 16:32

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 06:56	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 06:56	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 06:56	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 06:56	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 06:56	1
Carbon disulfide	0.13	J	1.6	0.097	ug/m3			03/19/14 06:56	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/19/14 06:56	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 06:56	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 06:56	1
Chloroform	0.38	J	0.98	0.19	ug/m3			03/19/14 06:56	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/19/14 06:56	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 06:56	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 06:56	1
Cyclohexane	0.31	J	1.7	0.14	ug/m3			03/19/14 06:56	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 06:56	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 06:56	1
Ethanol	110		3.8	3.8	ug/m3			03/19/14 06:56	1
Ethylbenzene	0.77	J	0.87	0.30	ug/m3			03/19/14 06:56	1
Heptane	0.73	J	2.0	0.19	ug/m3			03/19/14 06:56	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 06:56	1
Hexane	1.1	J	1.8	0.11	ug/m3			03/19/14 06:56	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 06:56	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 06:56	1
Isopropyl alcohol	13		4.9	0.23	ug/m3			03/19/14 06:56	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 06:56	1
Methylene Chloride	1.6	J	1.7	0.45	ug/m3			03/19/14 06:56	1
m-Xylene & p-Xylene	2.7		0.87	0.52	ug/m3			03/19/14 06:56	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 06:56	1
o-Xylene	1.0		0.87	0.26	ug/m3			03/19/14 06:56	1
Propene	3.2	cn	0.86	0.13	ug/m3			03/19/14 06:56	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 06:56	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/19/14 06:56	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 06:56	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 06:56	1
Toluene	4.3		0.75	0.45	ug/m3			03/19/14 06:56	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 06:56	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 06:56	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 06:56	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 06:56	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 06:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/19/14 06:56	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Date Collected: 03/12/14 16:30

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 07:51	1.64
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 07:51	1.64
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/19/14 07:51	1.64
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 07:51	1.64
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 07:51	1.64
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 07:51	1.64
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 07:51	1.64
1,2,4-Trimethylbenzene	0.21		0.20	0.063	ppb v/v			03/19/14 07:51	1.64
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 07:51	1.64
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 07:51	1.64
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 07:51	1.64
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 07:51	1.64
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 07:51	1.64
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 07:51	1.64
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v			03/19/14 07:51	1.64
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 07:51	1.64
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v			03/19/14 07:51	1.64
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
2-Butanone (MEK)	1.6		1.0	0.20	ppb v/v			03/19/14 07:51	1.64
2-Hexanone	0.088	J	0.50	0.058	ppb v/v			03/19/14 07:51	1.64
2-Methylbutane	1.4		0.50	0.031	ppb v/v			03/19/14 07:51	1.64
2-Methylpentane	0.33		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
4-Ethyltoluene	0.31	J	0.40	0.066	ppb v/v			03/19/14 07:51	1.64
4-Methyl-2-pentanone (MIBK)	0.56		0.50	0.045	ppb v/v			03/19/14 07:51	1.64
Acetone	7.1		5.0	1.4	ppb v/v			03/19/14 07:51	1.64
Benzene	0.40		0.20	0.056	ppb v/v			03/19/14 07:51	1.64
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 07:51	1.64
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 07:51	1.64
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 07:51	1.64
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 07:51	1.64
Carbon disulfide	0.037	J	0.50	0.031	ppb v/v			03/19/14 07:51	1.64
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/19/14 07:51	1.64
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 07:51	1.64
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 07:51	1.64
Chloroform	0.40		0.20	0.038	ppb v/v			03/19/14 07:51	1.64
Chloromethane	0.59		0.50	0.16	ppb v/v			03/19/14 07:51	1.64
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 07:51	1.64
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 07:51	1.64
Cyclohexane	0.10	J	0.50	0.040	ppb v/v			03/19/14 07:51	1.64
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 07:51	1.64
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 07:51	1.64
Ethanol	110		2.0	2.0	ppb v/v			03/19/14 07:51	1.64
Ethylbenzene	0.21		0.20	0.068	ppb v/v			03/19/14 07:51	1.64
Heptane	0.24	J	0.50	0.047	ppb v/v			03/19/14 07:51	1.64
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 07:51	1.64
Hexane	0.42	J	0.50	0.032	ppb v/v			03/19/14 07:51	1.64

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Date Collected: 03/12/14 16:30

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
Indene	ND		0.40	0.40	ppb v/v			03/19/14 07:51	1.64
Isopropyl alcohol	8.9		2.0	0.094	ppb v/v			03/19/14 07:51	1.64
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 07:51	1.64
Methylene Chloride	0.51		0.50	0.13	ppb v/v			03/19/14 07:51	1.64
m-Xylene & p-Xylene	0.79		0.20	0.12	ppb v/v			03/19/14 07:51	1.64
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 07:51	1.64
o-Xylene	0.31		0.20	0.061	ppb v/v			03/19/14 07:51	1.64
Propene	1.7	cn	0.50	0.077	ppb v/v			03/19/14 07:51	1.64
Styrene	0.12	J	0.20	0.058	ppb v/v			03/19/14 07:51	1.64
Tetrachloroethene	0.20		0.20	0.040	ppb v/v			03/19/14 07:51	1.64
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 07:51	1.64
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 07:51	1.64
Toluene	1.3		0.20	0.12	ppb v/v			03/19/14 07:51	1.64
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 07:51	1.64
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 07:51	1.64
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 07:51	1.64
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/19/14 07:51	1.64
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 07:51	1.64
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 07:51	1.64
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 07:51	1.64
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 07:51	1.64
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 07:51	1.64
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 07:51	1.64
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 07:51	1.64
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 07:51	1.64
1,2,4-Trimethylbenzene	1.0		0.98	0.31	ug/m3			03/19/14 07:51	1.64
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 07:51	1.64
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 07:51	1.64
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 07:51	1.64
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 07:51	1.64
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 07:51	1.64
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 07:51	1.64
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 07:51	1.64
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 07:51	1.64
1,4-Dichlorobenzene	0.86	J	1.2	0.38	ug/m3			03/19/14 07:51	1.64
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 07:51	1.64
2,2,4-Trimethylpentane	0.77	J	2.3	0.18	ug/m3			03/19/14 07:51	1.64
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 07:51	1.64
2-Butanone (MEK)	4.6		2.9	0.59	ug/m3			03/19/14 07:51	1.64
2-Hexanone	0.36	J	2.0	0.24	ug/m3			03/19/14 07:51	1.64
2-Methylbutane	4.1		1.5	0.091	ug/m3			03/19/14 07:51	1.64
2-Methylpentane	1.2		0.70	0.70	ug/m3			03/19/14 07:51	1.64
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3			03/19/14 07:51	1.64
4-Methyl-2-pentanone (MIBK)	2.3		2.0	0.18	ug/m3			03/19/14 07:51	1.64
Acetone	17		12	3.3	ug/m3			03/19/14 07:51	1.64

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Date Collected: 03/12/14 16:30

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.64	0.18	ug/m3			03/19/14 07:51	1.64
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 07:51	1.64
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 07:51	1.64
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 07:51	1.64
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 07:51	1.64
Carbon disulfide	0.12	J	1.6	0.097	ug/m3			03/19/14 07:51	1.64
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 07:51	1.64
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 07:51	1.64
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 07:51	1.64
Chloroform	2.0		0.98	0.19	ug/m3			03/19/14 07:51	1.64
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 07:51	1.64
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 07:51	1.64
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 07:51	1.64
Cyclohexane	0.36	J	1.7	0.14	ug/m3			03/19/14 07:51	1.64
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 07:51	1.64
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 07:51	1.64
Ethanol	210		3.8	3.8	ug/m3			03/19/14 07:51	1.64
Ethylbenzene	0.93		0.87	0.30	ug/m3			03/19/14 07:51	1.64
Heptane	0.97	J	2.0	0.19	ug/m3			03/19/14 07:51	1.64
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 07:51	1.64
Hexane	1.5	J	1.8	0.11	ug/m3			03/19/14 07:51	1.64
Indane	ND		0.97	0.97	ug/m3			03/19/14 07:51	1.64
Indene	ND		1.9	1.9	ug/m3			03/19/14 07:51	1.64
Isopropyl alcohol	22		4.9	0.23	ug/m3			03/19/14 07:51	1.64
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 07:51	1.64
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/19/14 07:51	1.64
m-Xylene & p-Xylene	3.4		0.87	0.52	ug/m3			03/19/14 07:51	1.64
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 07:51	1.64
o-Xylene	1.4		0.87	0.26	ug/m3			03/19/14 07:51	1.64
Propene	3.0	cn	0.86	0.13	ug/m3			03/19/14 07:51	1.64
Styrene	0.52	J	0.85	0.25	ug/m3			03/19/14 07:51	1.64
Tetrachloroethene	1.4		1.4	0.27	ug/m3			03/19/14 07:51	1.64
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 07:51	1.64
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 07:51	1.64
Toluene	5.0		0.75	0.45	ug/m3			03/19/14 07:51	1.64
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 07:51	1.64
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 07:51	1.64
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 07:51	1.64
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 07:51	1.64
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 07:51	1.64
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140					03/19/14 07:51	1.64

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 08:44	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v			03/19/14 08:44	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 08:44	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 08:44	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 08:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 08:44	1
1,2,4-Trimethylbenzene	0.19	J	0.20	0.063	ppb v/v			03/19/14 08:44	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 08:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 08:44	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 08:44	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 08:44	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 08:44	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 08:44	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 08:44	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 08:44	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 08:44	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 08:44	1
2,2,4-Trimethylpentane	0.51		0.50	0.039	ppb v/v			03/19/14 08:44	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v			03/19/14 08:44	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 08:44	1
2-Methylbutane	2.2		0.50	0.031	ppb v/v			03/19/14 08:44	1
2-Methylpentane	0.56		0.20	0.20	ppb v/v			03/19/14 08:44	1
4-Ethyltoluene	0.092	J	0.40	0.066	ppb v/v			03/19/14 08:44	1
4-Methyl-2-pentanone (MIBK)	0.32	J	0.50	0.045	ppb v/v			03/19/14 08:44	1
Acetone	3.0	J	5.0	1.4	ppb v/v			03/19/14 08:44	1
Benzene	0.90		0.20	0.056	ppb v/v			03/19/14 08:44	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 08:44	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 08:44	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 08:44	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 08:44	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 08:44	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/19/14 08:44	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 08:44	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 08:44	1
Chloroform	0.092	J	0.20	0.038	ppb v/v			03/19/14 08:44	1
Chloromethane	0.49	J	0.50	0.16	ppb v/v			03/19/14 08:44	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 08:44	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 08:44	1
Cyclohexane	0.17	J	0.50	0.040	ppb v/v			03/19/14 08:44	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 08:44	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/19/14 08:44	1
Ethanol	68		2.0	2.0	ppb v/v			03/19/14 08:44	1
Ethylbenzene	0.23		0.20	0.068	ppb v/v			03/19/14 08:44	1
Heptane	0.26	J	0.50	0.047	ppb v/v			03/19/14 08:44	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 08:44	1
Hexane	0.47	J	0.50	0.032	ppb v/v			03/19/14 08:44	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 08:44	1
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v			03/19/14 08:44	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 08:44	1
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v			03/19/14 08:44	1
m-Xylene & p-Xylene	0.73		0.20	0.12	ppb v/v			03/19/14 08:44	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 08:44	1
o-Xylene	0.28		0.20	0.061	ppb v/v			03/19/14 08:44	1
Propene	2.3	cn	0.50	0.077	ppb v/v			03/19/14 08:44	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 08:44	1
Tetrachloroethene	0.31		0.20	0.040	ppb v/v			03/19/14 08:44	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 08:44	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
Toluene	1.6		0.20	0.12	ppb v/v			03/19/14 08:44	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 08:44	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 08:44	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 08:44	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 08:44	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 08:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 08:44	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/19/14 08:44	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 08:44	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 08:44	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 08:44	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 08:44	1
1,2,4-Trimethylbenzene	0.92	J	0.98	0.31	ug/m3			03/19/14 08:44	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 08:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 08:44	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 08:44	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 08:44	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 08:44	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 08:44	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 08:44	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 08:44	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 08:44	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 08:44	1
2,2,4-Trimethylpentane	2.4		2.3	0.18	ug/m3			03/19/14 08:44	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 08:44	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/19/14 08:44	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 08:44	1
2-Methylbutane	6.4		1.5	0.091	ug/m3			03/19/14 08:44	1
2-Methylpentane	2.0		0.70	0.70	ug/m3			03/19/14 08:44	1
4-Ethyltoluene	0.45	J	2.0	0.32	ug/m3			03/19/14 08:44	1
4-Methyl-2-pentanone (MIBK)	1.3	J	2.0	0.18	ug/m3			03/19/14 08:44	1
Acetone	7.2	J	12	3.3	ug/m3			03/19/14 08:44	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.9		0.64	0.18	ug/m3			03/19/14 08:44	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 08:44	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 08:44	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 08:44	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 08:44	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 08:44	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/19/14 08:44	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 08:44	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 08:44	1
Chloroform	0.45	J	0.98	0.19	ug/m3			03/19/14 08:44	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/19/14 08:44	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 08:44	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 08:44	1
Cyclohexane	0.60	J	1.7	0.14	ug/m3			03/19/14 08:44	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 08:44	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/19/14 08:44	1
Ethanol	130		3.8	3.8	ug/m3			03/19/14 08:44	1
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/19/14 08:44	1
Heptane	1.1	J	2.0	0.19	ug/m3			03/19/14 08:44	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 08:44	1
Hexane	1.6	J	1.8	0.11	ug/m3			03/19/14 08:44	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 08:44	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 08:44	1
Isopropyl alcohol	13		4.9	0.23	ug/m3			03/19/14 08:44	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 08:44	1
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/19/14 08:44	1
m-Xylene & p-Xylene	3.2		0.87	0.52	ug/m3			03/19/14 08:44	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 08:44	1
o-Xylene	1.2		0.87	0.26	ug/m3			03/19/14 08:44	1
Propene	3.9	cn	0.86	0.13	ug/m3			03/19/14 08:44	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 08:44	1
Tetrachloroethene	2.1		1.4	0.27	ug/m3			03/19/14 08:44	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 08:44	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 08:44	1
Toluene	5.9		0.75	0.45	ug/m3			03/19/14 08:44	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 08:44	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 08:44	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 08:44	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 08:44	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 08:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140					03/19/14 08:44	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 19:12	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	J	0.20	0.031	ppb v/v			03/18/14 19:12	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 19:12	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 19:12	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 19:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 19:12	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 19:12	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 19:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 19:12	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 19:12	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 19:12	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 19:12	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 19:12	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 19:12	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 19:12	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 19:12	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 19:12	1
2,2,4-Trimethylpentane	0.062	J	0.50	0.039	ppb v/v			03/18/14 19:12	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v			03/18/14 19:12	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 19:12	1
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v			03/18/14 19:12	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 19:12	1
4-Methyl-2-pentanone (MIBK)	0.29	J	0.50	0.045	ppb v/v			03/18/14 19:12	1
Acetone	2.4	J	5.0	1.4	ppb v/v			03/18/14 19:12	1
Benzene	0.24		0.20	0.056	ppb v/v			03/18/14 19:12	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 19:12	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 19:12	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 19:12	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 19:12	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 19:12	1
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v			03/18/14 19:12	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 19:12	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 19:12	1
Chloroform	0.052	J	0.20	0.038	ppb v/v			03/18/14 19:12	1
Chloromethane	0.51		0.50	0.16	ppb v/v			03/18/14 19:12	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 19:12	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 19:12	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 19:12	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 19:12	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/18/14 19:12	1
Ethanol	53		2.0	2.0	ppb v/v			03/18/14 19:12	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 19:12	1
Heptane	0.078	J	0.50	0.047	ppb v/v			03/18/14 19:12	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 19:12	1
Hexane	0.17	J	0.50	0.032	ppb v/v			03/18/14 19:12	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 19:12	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/18/14 19:12	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 19:12	1
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v			03/18/14 19:12	1
m-Xylene & p-Xylene	0.17	J	0.20	0.12	ppb v/v			03/18/14 19:12	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 19:12	1
o-Xylene	0.070	J	0.20	0.061	ppb v/v			03/18/14 19:12	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 19:12	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 19:12	1
Tetrachloroethene	0.53		0.20	0.040	ppb v/v			03/18/14 19:12	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 19:12	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
Toluene	0.50		0.20	0.12	ppb v/v			03/18/14 19:12	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 19:12	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 19:12	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 19:12	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/18/14 19:12	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 19:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 19:12	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3			03/18/14 19:12	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 19:12	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 19:12	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 19:12	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 19:12	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 19:12	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 19:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 19:12	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 19:12	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 19:12	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 19:12	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 19:12	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 19:12	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 19:12	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 19:12	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 19:12	1
2,2,4-Trimethylpentane	0.29	J	2.3	0.18	ug/m3			03/18/14 19:12	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 19:12	1
2-Butanone (MEK)	0.70	J	2.9	0.59	ug/m3			03/18/14 19:12	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 19:12	1
2-Methylbutane	1.1	J	1.5	0.091	ug/m3			03/18/14 19:12	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 19:12	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 19:12	1
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3			03/18/14 19:12	1
Acetone	5.8	J	12	3.3	ug/m3			03/18/14 19:12	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.78		0.64	0.18	ug/m3			03/18/14 19:12	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 19:12	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 19:12	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 19:12	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 19:12	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 19:12	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/18/14 19:12	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 19:12	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 19:12	1
Chloroform	0.25	J	0.98	0.19	ug/m3			03/18/14 19:12	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/18/14 19:12	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 19:12	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 19:12	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 19:12	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 19:12	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 19:12	1
Ethanol	100		3.8	3.8	ug/m3			03/18/14 19:12	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 19:12	1
Heptane	0.32	J	2.0	0.19	ug/m3			03/18/14 19:12	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 19:12	1
Hexane	0.61	J	1.8	0.11	ug/m3			03/18/14 19:12	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 19:12	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 19:12	1
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3			03/18/14 19:12	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 19:12	1
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/18/14 19:12	1
m-Xylene & p-Xylene	0.75	J	0.87	0.52	ug/m3			03/18/14 19:12	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 19:12	1
o-Xylene	0.30	J	0.87	0.26	ug/m3			03/18/14 19:12	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 19:12	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 19:12	1
Tetrachloroethene	3.6		1.4	0.27	ug/m3			03/18/14 19:12	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 19:12	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 19:12	1
Toluene	1.9		0.75	0.45	ug/m3			03/18/14 19:12	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 19:12	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 19:12	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 19:12	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/18/14 19:12	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/18/14 19:12	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 20:05	1.84
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 20:05	1.84
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/18/14 20:05	1.84
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 20:05	1.84
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 20:05	1.84
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 20:05	1.84
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 20:05	1.84
1,2,4-Trimethylbenzene	0.14	J	0.20	0.063	ppb v/v			03/18/14 20:05	1.84
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 20:05	1.84
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 20:05	1.84
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 20:05	1.84
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 20:05	1.84
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 20:05	1.84
1,4-Dichlorobenzene	0.22		0.20	0.064	ppb v/v			03/18/14 20:05	1.84
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 20:05	1.84
2,2,4-Trimethylpentane	0.073	J	0.50	0.039	ppb v/v			03/18/14 20:05	1.84
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
2-Butanone (MEK)	2.8		1.0	0.20	ppb v/v			03/18/14 20:05	1.84
2-Hexanone	0.19	J	0.50	0.058	ppb v/v			03/18/14 20:05	1.84
2-Methylbutane	0.33	J	0.50	0.031	ppb v/v			03/18/14 20:05	1.84
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
4-Ethyltoluene	0.082	J	0.40	0.066	ppb v/v			03/18/14 20:05	1.84
4-Methyl-2-pentanone (MIBK)	1.1		0.50	0.045	ppb v/v			03/18/14 20:05	1.84
Acetone	16		5.0	1.4	ppb v/v			03/18/14 20:05	1.84
Benzene	0.25		0.20	0.056	ppb v/v			03/18/14 20:05	1.84
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 20:05	1.84
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 20:05	1.84
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 20:05	1.84
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 20:05	1.84
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 20:05	1.84
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v			03/18/14 20:05	1.84
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 20:05	1.84
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 20:05	1.84
Chloroform	0.12	J	0.20	0.038	ppb v/v			03/18/14 20:05	1.84
Chloromethane	0.62		0.50	0.16	ppb v/v			03/18/14 20:05	1.84
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 20:05	1.84
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 20:05	1.84
Cyclohexane	0.049	J	0.50	0.040	ppb v/v			03/18/14 20:05	1.84
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 20:05	1.84
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v			03/18/14 20:05	1.84
Ethanol	180		2.0	2.0	ppb v/v			03/18/14 20:05	1.84
Ethylbenzene	0.23		0.20	0.068	ppb v/v			03/18/14 20:05	1.84
Heptane	0.27	J	0.50	0.047	ppb v/v			03/18/14 20:05	1.84
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 20:05	1.84
Hexane	0.18	J	0.50	0.032	ppb v/v			03/18/14 20:05	1.84

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
Indene	ND		0.40	0.40	ppb v/v			03/18/14 20:05	1.84
Isopropyl alcohol	3.0		2.0	0.094	ppb v/v			03/18/14 20:05	1.84
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 20:05	1.84
Methylene Chloride	0.32	J	0.50	0.13	ppb v/v			03/18/14 20:05	1.84
m-Xylene & p-Xylene	0.82		0.20	0.12	ppb v/v			03/18/14 20:05	1.84
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 20:05	1.84
o-Xylene	0.32		0.20	0.061	ppb v/v			03/18/14 20:05	1.84
Propene	3.1	cn	0.50	0.077	ppb v/v			03/18/14 20:05	1.84
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 20:05	1.84
Tetrachloroethene	0.35		0.20	0.040	ppb v/v			03/18/14 20:05	1.84
Tetrahydrofuran	0.074	J	1.0	0.063	ppb v/v			03/18/14 20:05	1.84
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
Toluene	1.0		0.20	0.12	ppb v/v			03/18/14 20:05	1.84
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 20:05	1.84
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 20:05	1.84
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 20:05	1.84
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v			03/18/14 20:05	1.84
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 20:05	1.84
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 20:05	1.84
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 20:05	1.84
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/18/14 20:05	1.84
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 20:05	1.84
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 20:05	1.84
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 20:05	1.84
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 20:05	1.84
1,2,4-Trimethylbenzene	0.70	J	0.98	0.31	ug/m3			03/18/14 20:05	1.84
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 20:05	1.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 20:05	1.84
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 20:05	1.84
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 20:05	1.84
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 20:05	1.84
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 20:05	1.84
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 20:05	1.84
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 20:05	1.84
1,4-Dichlorobenzene	1.3		1.2	0.38	ug/m3			03/18/14 20:05	1.84
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 20:05	1.84
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3			03/18/14 20:05	1.84
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 20:05	1.84
2-Butanone (MEK)	8.1		2.9	0.59	ug/m3			03/18/14 20:05	1.84
2-Hexanone	0.79	J	2.0	0.24	ug/m3			03/18/14 20:05	1.84
2-Methylbutane	0.96	J	1.5	0.091	ug/m3			03/18/14 20:05	1.84
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 20:05	1.84
4-Ethyltoluene	0.40	J	2.0	0.32	ug/m3			03/18/14 20:05	1.84
4-Methyl-2-pentanone (MIBK)	4.3		2.0	0.18	ug/m3			03/18/14 20:05	1.84
Acetone	38		12	3.3	ug/m3			03/18/14 20:05	1.84

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.79		0.64	0.18	ug/m3			03/18/14 20:05	1.84
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 20:05	1.84
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 20:05	1.84
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 20:05	1.84
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 20:05	1.84
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 20:05	1.84
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3			03/18/14 20:05	1.84
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 20:05	1.84
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 20:05	1.84
Chloroform	0.57	J	0.98	0.19	ug/m3			03/18/14 20:05	1.84
Chloromethane	1.3		1.0	0.33	ug/m3			03/18/14 20:05	1.84
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 20:05	1.84
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 20:05	1.84
Cyclohexane	0.17	J	1.7	0.14	ug/m3			03/18/14 20:05	1.84
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 20:05	1.84
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 20:05	1.84
Ethanol	340		3.8	3.8	ug/m3			03/18/14 20:05	1.84
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/18/14 20:05	1.84
Heptane	1.1	J	2.0	0.19	ug/m3			03/18/14 20:05	1.84
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 20:05	1.84
Hexane	0.62	J	1.8	0.11	ug/m3			03/18/14 20:05	1.84
Indane	ND		0.97	0.97	ug/m3			03/18/14 20:05	1.84
Indene	ND		1.9	1.9	ug/m3			03/18/14 20:05	1.84
Isopropyl alcohol	7.3		4.9	0.23	ug/m3			03/18/14 20:05	1.84
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 20:05	1.84
Methylene Chloride	1.1	J	1.7	0.45	ug/m3			03/18/14 20:05	1.84
m-Xylene & p-Xylene	3.6		0.87	0.52	ug/m3			03/18/14 20:05	1.84
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 20:05	1.84
o-Xylene	1.4		0.87	0.26	ug/m3			03/18/14 20:05	1.84
Propene	5.3	cn	0.86	0.13	ug/m3			03/18/14 20:05	1.84
Styrene	ND		0.85	0.25	ug/m3			03/18/14 20:05	1.84
Tetrachloroethene	2.4		1.4	0.27	ug/m3			03/18/14 20:05	1.84
Tetrahydrofuran	0.22	J	2.9	0.19	ug/m3			03/18/14 20:05	1.84
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 20:05	1.84
Toluene	3.8		0.75	0.45	ug/m3			03/18/14 20:05	1.84
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 20:05	1.84
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 20:05	1.84
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 20:05	1.84
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3			03/18/14 20:05	1.84
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 20:05	1.84
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/18/14 20:05	1.84

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.074	J	0.20	0.031	ppb v/v			03/18/14 21:00	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 21:00	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 21:00	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 21:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 21:00	1
1,2,4-Trimethylbenzene	0.52		0.20	0.063	ppb v/v			03/18/14 21:00	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 21:00	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 21:00	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 21:00	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 21:00	1
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v			03/18/14 21:00	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 21:00	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 21:00	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 21:00	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 21:00	1
2,2,4-Trimethylpentane	0.15	J	0.50	0.039	ppb v/v			03/18/14 21:00	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
2-Butanone (MEK)	3.1		1.0	0.20	ppb v/v			03/18/14 21:00	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 21:00	1
2-Methylbutane	2.9		0.50	0.031	ppb v/v			03/18/14 21:00	1
2-Methylpentane	0.27		0.20	0.20	ppb v/v			03/18/14 21:00	1
4-Ethyltoluene	0.30	J	0.40	0.066	ppb v/v			03/18/14 21:00	1
4-Methyl-2-pentanone (MIBK)	0.44	J	0.50	0.045	ppb v/v			03/18/14 21:00	1
Acetone	270	E	5.0	1.4	ppb v/v			03/18/14 21:00	1
Benzene	0.41		0.20	0.056	ppb v/v			03/18/14 21:00	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 21:00	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 21:00	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 21:00	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 21:00	1
Carbon disulfide	0.13	J	0.50	0.031	ppb v/v			03/18/14 21:00	1
Carbon tetrachloride	0.073	J	0.20	0.038	ppb v/v			03/18/14 21:00	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 21:00	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 21:00	1
Chloroform	0.053	J	0.20	0.038	ppb v/v			03/18/14 21:00	1
Chloromethane	0.59		0.50	0.16	ppb v/v			03/18/14 21:00	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 21:00	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 21:00	1
Cyclohexane	0.12	J	0.50	0.040	ppb v/v			03/18/14 21:00	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 21:00	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/18/14 21:00	1
Ethanol	200	E	2.0	2.0	ppb v/v			03/18/14 21:00	1
Ethylbenzene	4.6		0.20	0.068	ppb v/v			03/18/14 21:00	1
Heptane	0.39	J	0.50	0.047	ppb v/v			03/18/14 21:00	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 21:00	1
Hexane	0.35	J	0.50	0.032	ppb v/v			03/18/14 21:00	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 21:00	1
Isopropyl alcohol	4.3		2.0	0.094	ppb v/v			03/18/14 21:00	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 21:00	1
Methylene Chloride	14		0.50	0.13	ppb v/v			03/18/14 21:00	1
m-Xylene & p-Xylene	19		0.20	0.12	ppb v/v			03/18/14 21:00	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 21:00	1
o-Xylene	5.2		0.20	0.061	ppb v/v			03/18/14 21:00	1
Propene	31	cn	0.50	0.077	ppb v/v			03/18/14 21:00	1
Styrene	0.93		0.20	0.058	ppb v/v			03/18/14 21:00	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/18/14 21:00	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 21:00	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 21:00	1
Toluene	130	E	0.20	0.12	ppb v/v			03/18/14 21:00	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 21:00	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 21:00	1
Trichloroethene	0.057	J	0.20	0.036	ppb v/v			03/18/14 21:00	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/18/14 21:00	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 21:00	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	J	1.5	0.24	ug/m3			03/18/14 21:00	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 21:00	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 21:00	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 21:00	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 21:00	1
1,2,4-Trimethylbenzene	2.5		0.98	0.31	ug/m3			03/18/14 21:00	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 21:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 21:00	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 21:00	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 21:00	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 21:00	1
1,3,5-Trimethylbenzene	0.66	J	0.98	0.32	ug/m3			03/18/14 21:00	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 21:00	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 21:00	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 21:00	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 21:00	1
2,2,4-Trimethylpentane	0.68	J	2.3	0.18	ug/m3			03/18/14 21:00	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 21:00	1
2-Butanone (MEK)	9.2		2.9	0.59	ug/m3			03/18/14 21:00	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 21:00	1
2-Methylbutane	8.5		1.5	0.091	ug/m3			03/18/14 21:00	1
2-Methylpentane	0.94		0.70	0.70	ug/m3			03/18/14 21:00	1
4-Ethyltoluene	1.5	J	2.0	0.32	ug/m3			03/18/14 21:00	1
4-Methyl-2-pentanone (MIBK)	1.8	J	2.0	0.18	ug/m3			03/18/14 21:00	1
Acetone	640	E	12	3.3	ug/m3			03/18/14 21:00	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.64	0.18	ug/m3			03/18/14 21:00	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 21:00	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 21:00	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 21:00	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 21:00	1
Carbon disulfide	0.39	J	1.6	0.097	ug/m3			03/18/14 21:00	1
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3			03/18/14 21:00	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 21:00	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 21:00	1
Chloroform	0.26	J	0.98	0.19	ug/m3			03/18/14 21:00	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/18/14 21:00	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 21:00	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 21:00	1
Cyclohexane	0.42	J	1.7	0.14	ug/m3			03/18/14 21:00	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 21:00	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/18/14 21:00	1
Ethanol	390	E	3.8	3.8	ug/m3			03/18/14 21:00	1
Ethylbenzene	20		0.87	0.30	ug/m3			03/18/14 21:00	1
Heptane	1.6	J	2.0	0.19	ug/m3			03/18/14 21:00	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 21:00	1
Hexane	1.2	J	1.8	0.11	ug/m3			03/18/14 21:00	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 21:00	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 21:00	1
Isopropyl alcohol	10		4.9	0.23	ug/m3			03/18/14 21:00	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 21:00	1
Methylene Chloride	50		1.7	0.45	ug/m3			03/18/14 21:00	1
m-Xylene & p-Xylene	81		0.87	0.52	ug/m3			03/18/14 21:00	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 21:00	1
o-Xylene	23		0.87	0.26	ug/m3			03/18/14 21:00	1
Propene	53	cn	0.86	0.13	ug/m3			03/18/14 21:00	1
Styrene	4.0		0.85	0.25	ug/m3			03/18/14 21:00	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/18/14 21:00	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 21:00	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 21:00	1
Toluene	500	E	0.75	0.45	ug/m3			03/18/14 21:00	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 21:00	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 21:00	1
Trichloroethene	0.31	J	1.1	0.19	ug/m3			03/18/14 21:00	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/18/14 21:00	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/18/14 21:00	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	260		91	25	ppb v/v			03/20/14 07:15	1
Ethanol	200		36	36	ppb v/v			03/20/14 07:15	1
Toluene	110		3.6	2.2	ppb v/v			03/20/14 07:15	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	630		220	60	ug/m3			03/20/14 07:15	1
Ethanol	380		69	69	ug/m3			03/20/14 07:15	1
Toluene	420		14	8.2	ug/m3			03/20/14 07:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		60 - 140					03/20/14 07:15	1

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 09:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/19/14 09:39	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 09:39	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 09:39	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 09:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 09:39	1
1,2,4-Trimethylbenzene	0.35		0.20	0.063	ppb v/v			03/19/14 09:39	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 09:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 09:39	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 09:39	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 09:39	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 09:39	1
1,3,5-Trimethylbenzene	0.089	J	0.20	0.065	ppb v/v			03/19/14 09:39	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 09:39	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 09:39	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 09:39	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 09:39	1
2,2,4-Trimethylpentane	0.16	J	0.50	0.039	ppb v/v			03/19/14 09:39	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
2-Butanone (MEK)	3.3		1.0	0.20	ppb v/v			03/19/14 09:39	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 09:39	1
2-Methylbutane	3.2		0.50	0.031	ppb v/v			03/19/14 09:39	1
2-Methylpentane	0.32		0.20	0.20	ppb v/v			03/19/14 09:39	1
4-Ethyltoluene	0.19	J	0.40	0.066	ppb v/v			03/19/14 09:39	1
4-Methyl-2-pentanone (MIBK)	0.62		0.50	0.045	ppb v/v			03/19/14 09:39	1
Acetone	230	E	5.0	1.4	ppb v/v			03/19/14 09:39	1
Benzene	0.39		0.20	0.056	ppb v/v			03/19/14 09:39	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 09:39	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 09:39	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 09:39	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 09:39	1
Carbon disulfide	0.24	J	0.50	0.031	ppb v/v			03/19/14 09:39	1
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/19/14 09:39	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 09:39	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 09:39	1
Chloroform	0.089	J	0.20	0.038	ppb v/v			03/19/14 09:39	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/19/14 09:39	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 09:39	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 09:39	1
Cyclohexane	0.18	J	0.50	0.040	ppb v/v			03/19/14 09:39	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 09:39	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/19/14 09:39	1
Ethanol	200		2.0	2.0	ppb v/v			03/19/14 09:39	1
Ethylbenzene	3.2		0.20	0.068	ppb v/v			03/19/14 09:39	1
Heptane	0.44	J	0.50	0.047	ppb v/v			03/19/14 09:39	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 09:39	1
Hexane	0.38	J	0.50	0.032	ppb v/v			03/19/14 09:39	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 09:39	1
Isopropyl alcohol	4.5		2.0	0.094	ppb v/v			03/19/14 09:39	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 09:39	1
Methylene Chloride	17		0.50	0.13	ppb v/v			03/19/14 09:39	1
m-Xylene & p-Xylene	12		0.20	0.12	ppb v/v			03/19/14 09:39	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 09:39	1
o-Xylene	3.3		0.20	0.061	ppb v/v			03/19/14 09:39	1
Propene	ND		0.50	0.077	ppb v/v			03/19/14 09:39	1
Styrene	0.91		0.20	0.058	ppb v/v			03/19/14 09:39	1
Tetrachloroethene	0.12	J	0.20	0.040	ppb v/v			03/19/14 09:39	1
Tetrahydrofuran	0.19	J	1.0	0.063	ppb v/v			03/19/14 09:39	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 09:39	1
Toluene	100	E	0.20	0.12	ppb v/v			03/19/14 09:39	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 09:39	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 09:39	1
Trichloroethene	0.061	J	0.20	0.036	ppb v/v			03/19/14 09:39	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 09:39	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 09:39	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 09:39	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/19/14 09:39	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 09:39	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 09:39	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 09:39	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 09:39	1
1,2,4-Trimethylbenzene	1.7		0.98	0.31	ug/m3			03/19/14 09:39	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 09:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 09:39	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 09:39	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 09:39	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 09:39	1
1,3,5-Trimethylbenzene	0.44	J	0.98	0.32	ug/m3			03/19/14 09:39	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 09:39	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 09:39	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 09:39	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 09:39	1
2,2,4-Trimethylpentane	0.75	J	2.3	0.18	ug/m3			03/19/14 09:39	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 09:39	1
2-Butanone (MEK)	9.8		2.9	0.59	ug/m3			03/19/14 09:39	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 09:39	1
2-Methylbutane	9.4		1.5	0.091	ug/m3			03/19/14 09:39	1
2-Methylpentane	1.1		0.70	0.70	ug/m3			03/19/14 09:39	1
4-Ethyltoluene	0.91	J	2.0	0.32	ug/m3			03/19/14 09:39	1
4-Methyl-2-pentanone (MIBK)	2.6		2.0	0.18	ug/m3			03/19/14 09:39	1
Acetone	540	E	12	3.3	ug/m3			03/19/14 09:39	1
Benzene	1.2		0.64	0.18	ug/m3			03/19/14 09:39	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 09:39	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 09:39	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 09:39	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 09:39	1
Carbon disulfide	0.74	J	1.6	0.097	ug/m3			03/19/14 09:39	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 09:39	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 09:39	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 09:39	1
Chloroform	0.43	J	0.98	0.19	ug/m3			03/19/14 09:39	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 09:39	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 09:39	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 09:39	1
Cyclohexane	0.63	J	1.7	0.14	ug/m3			03/19/14 09:39	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 09:39	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 09:39	1
Ethanol	370		3.8	3.8	ug/m3			03/19/14 09:39	1
Ethylbenzene	14		0.87	0.30	ug/m3			03/19/14 09:39	1
Heptane	1.8	J	2.0	0.19	ug/m3			03/19/14 09:39	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 09:39	1
Hexane	1.3	J	1.8	0.11	ug/m3			03/19/14 09:39	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 09:39	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 09:39	1
Isopropyl alcohol	11		4.9	0.23	ug/m3			03/19/14 09:39	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 09:39	1
Methylene Chloride	59		1.7	0.45	ug/m3			03/19/14 09:39	1
m-Xylene & p-Xylene	53		0.87	0.52	ug/m3			03/19/14 09:39	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 09:39	1
o-Xylene	14		0.87	0.26	ug/m3			03/19/14 09:39	1
Propene	ND		0.86	0.13	ug/m3			03/19/14 09:39	1
Styrene	3.9		0.85	0.25	ug/m3			03/19/14 09:39	1
Tetrachloroethene	0.80	J	1.4	0.27	ug/m3			03/19/14 09:39	1
Tetrahydrofuran	0.55	J	2.9	0.19	ug/m3			03/19/14 09:39	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 09:39	1
Toluene	380	E	0.75	0.45	ug/m3			03/19/14 09:39	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 09:39	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 09:39	1
Trichloroethene	0.33	J	1.1	0.19	ug/m3			03/19/14 09:39	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 09:39	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 09:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140		03/19/14 09:39	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	220		91	25	ppb v/v			03/24/14 13:17	1
Toluene	65		3.6	2.2	ppb v/v			03/24/14 13:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	510		220	60	ug/m3			03/24/14 13:17	1
Toluene	250		14	8.2	ug/m3			03/24/14 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		60 - 140		03/24/14 13:17	1

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 15:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/21/14 15:32	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 15:32	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 15:32	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 15:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 15:32	1
1,2,4-Trimethylbenzene	0.48		0.20	0.063	ppb v/v			03/21/14 15:32	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 15:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 15:32	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 15:32	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 15:32	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 15:32	1
1,3,5-Trimethylbenzene	0.13	J	0.20	0.065	ppb v/v			03/21/14 15:32	1
1,3-Butadiene	0.073	J	0.40	0.064	ppb v/v			03/21/14 15:32	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 15:32	1
1,4-Dichlorobenzene	0.095	J	0.20	0.064	ppb v/v			03/21/14 15:32	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 15:32	1
2,2,4-Trimethylpentane	0.14	J	0.50	0.039	ppb v/v			03/21/14 15:32	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
2-Butanone (MEK)	8.6		1.0	0.20	ppb v/v			03/21/14 15:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 15:32	1
2-Methylbutane	3.2		0.50	0.031	ppb v/v			03/21/14 15:32	1
2-Methylpentane	0.24		0.20	0.20	ppb v/v			03/21/14 15:32	1
4-Ethyltoluene	0.22	J	0.40	0.066	ppb v/v			03/21/14 15:32	1
4-Methyl-2-pentanone (MIBK)	3.3		0.50	0.045	ppb v/v			03/21/14 15:32	1
Acetone	9.8	*	5.0	1.4	ppb v/v			03/21/14 15:32	1
Benzene	0.37		0.20	0.056	ppb v/v			03/21/14 15:32	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 15:32	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 15:32	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 15:32	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 15:32	1
Carbon disulfide	0.054	J	0.50	0.031	ppb v/v			03/21/14 15:32	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/21/14 15:32	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 15:32	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 15:32	1
Chloroform	0.064	J	0.20	0.038	ppb v/v			03/21/14 15:32	1
Chloromethane	0.56		0.50	0.16	ppb v/v			03/21/14 15:32	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 15:32	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 15:32	1
Cyclohexane	0.12	J	0.50	0.040	ppb v/v			03/21/14 15:32	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 15:32	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/21/14 15:32	1
Ethanol	720	E	2.0	2.0	ppb v/v			03/21/14 15:32	1
Ethylbenzene	1.3		0.20	0.068	ppb v/v			03/21/14 15:32	1
Heptane	1.2		0.50	0.047	ppb v/v			03/21/14 15:32	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 15:32	1
Hexane	0.30	J	0.50	0.032	ppb v/v			03/21/14 15:32	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 15:32	1
Isopropyl alcohol	8.5		2.0	0.094	ppb v/v			03/21/14 15:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 15:32	1
Methylene Chloride	46	E	0.50	0.13	ppb v/v			03/21/14 15:32	1
m-Xylene & p-Xylene	5.1		0.20	0.12	ppb v/v			03/21/14 15:32	1
Naphthalene	0.10	J	0.50	0.090	ppb v/v			03/21/14 15:32	1
o-Xylene	1.6		0.20	0.061	ppb v/v			03/21/14 15:32	1
Propene	1.1	cn	0.50	0.077	ppb v/v			03/21/14 15:32	1
Styrene	9.5		0.20	0.058	ppb v/v			03/21/14 15:32	1
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/21/14 15:32	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 15:32	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 15:32	1
Toluene	17		0.20	0.12	ppb v/v			03/21/14 15:32	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 15:32	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 15:32	1
Trichloroethene	0.23		0.20	0.036	ppb v/v			03/21/14 15:32	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/21/14 15:32	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 15:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 15:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/21/14 15:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 15:32	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 15:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 15:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 15:32	1
1,2,4-Trimethylbenzene	2.3		0.98	0.31	ug/m3			03/21/14 15:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 15:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 15:32	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 15:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 15:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 15:32	1
1,3,5-Trimethylbenzene	0.62	J	0.98	0.32	ug/m3			03/21/14 15:32	1
1,3-Butadiene	0.16	J	0.88	0.14	ug/m3			03/21/14 15:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 15:32	1
1,4-Dichlorobenzene	0.57	J	1.2	0.38	ug/m3			03/21/14 15:32	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 15:32	1
2,2,4-Trimethylpentane	0.67	J	2.3	0.18	ug/m3			03/21/14 15:32	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 15:32	1
2-Butanone (MEK)	25		2.9	0.59	ug/m3			03/21/14 15:32	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 15:32	1
2-Methylbutane	9.4		1.5	0.091	ug/m3			03/21/14 15:32	1
2-Methylpentane	0.85		0.70	0.70	ug/m3			03/21/14 15:32	1
4-Ethyltoluene	1.1	J	2.0	0.32	ug/m3			03/21/14 15:32	1
4-Methyl-2-pentanone (MIBK)	13		2.0	0.18	ug/m3			03/21/14 15:32	1
Acetone	23	*	12	3.3	ug/m3			03/21/14 15:32	1
Benzene	1.2		0.64	0.18	ug/m3			03/21/14 15:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 15:32	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 15:32	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 15:32	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 15:32	1
Carbon disulfide	0.17	J	1.6	0.097	ug/m3			03/21/14 15:32	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/21/14 15:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 15:32	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 15:32	1
Chloroform	0.31	J	0.98	0.19	ug/m3			03/21/14 15:32	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/21/14 15:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 15:32	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 15:32	1
Cyclohexane	0.42	J	1.7	0.14	ug/m3			03/21/14 15:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 15:32	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/21/14 15:32	1
Ethanol	1400	E	3.8	3.8	ug/m3			03/21/14 15:32	1
Ethylbenzene	5.5		0.87	0.30	ug/m3			03/21/14 15:32	1
Heptane	5.0		2.0	0.19	ug/m3			03/21/14 15:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 15:32	1
Hexane	1.0	J	1.8	0.11	ug/m3			03/21/14 15:32	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 15:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/21/14 15:32	1
Isopropyl alcohol	21		4.9	0.23	ug/m3			03/21/14 15:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 15:32	1
Methylene Chloride	160	E	1.7	0.45	ug/m3			03/21/14 15:32	1
m-Xylene & p-Xylene	22		0.87	0.52	ug/m3			03/21/14 15:32	1
Naphthalene	0.54	J	2.6	0.47	ug/m3			03/21/14 15:32	1
o-Xylene	6.9		0.87	0.26	ug/m3			03/21/14 15:32	1
Propene	1.9	cn	0.86	0.13	ug/m3			03/21/14 15:32	1
Styrene	40		0.85	0.25	ug/m3			03/21/14 15:32	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/21/14 15:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 15:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 15:32	1
Toluene	65		0.75	0.45	ug/m3			03/21/14 15:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 15:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 15:32	1
Trichloroethene	1.2		1.1	0.19	ug/m3			03/21/14 15:32	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/21/14 15:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140		03/21/14 15:32	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	760		20	20	ppb v/v			03/24/14 14:38	1
Methylene Chloride	33		5.0	1.3	ppb v/v			03/24/14 14:38	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1400		38	38	ug/m3			03/24/14 14:38	1
Methylene Chloride	120		17	4.5	ug/m3			03/24/14 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		60 - 140		03/24/14 14:38	1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 19:31	1
1,1,1,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 19:31	1
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v			03/19/14 19:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 19:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 19:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 19:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 19:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 19:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 19:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 19:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 19:31	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 19:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v			03/19/14 19:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 19:31	1
2-Methylbutane	0.28	J	0.50	0.031	ppb v/v			03/19/14 19:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/19/14 19:31	1
Acetone	2.3	J	5.0	1.4	ppb v/v			03/19/14 19:31	1
Benzene	0.20		0.20	0.056	ppb v/v			03/19/14 19:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 19:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 19:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 19:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 19:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 19:31	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/19/14 19:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 19:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 19:31	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 19:31	1
Chloromethane	0.47	J	0.50	0.16	ppb v/v			03/19/14 19:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 19:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 19:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 19:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 19:31	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/19/14 19:31	1
Ethanol	7.4		2.0	2.0	ppb v/v			03/19/14 19:31	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 19:31	1
Heptane	0.048	J	0.50	0.047	ppb v/v			03/19/14 19:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 19:31	1
Hexane	0.095	J	0.50	0.032	ppb v/v			03/19/14 19:31	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 19:31	1
Isopropyl alcohol	0.71	J	2.0	0.094	ppb v/v			03/19/14 19:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 19:31	1
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v			03/19/14 19:31	1
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v			03/19/14 19:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 19:31	1
o-Xylene	0.088	J	0.20	0.061	ppb v/v			03/19/14 19:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propene	0.41	J cn	0.50	0.077	ppb v/v			03/19/14 19:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 19:31	1
Tetrachloroethene	0.093	J	0.20	0.040	ppb v/v			03/19/14 19:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 19:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
Toluene	0.36		0.20	0.12	ppb v/v			03/19/14 19:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 19:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 19:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 19:31	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 19:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 19:31	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/19/14 19:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 19:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 19:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 19:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 19:31	1
1,2,4-Trimethylbenzene	0.76	J	0.98	0.31	ug/m3			03/19/14 19:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 19:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 19:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 19:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 19:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 19:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 19:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 19:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 19:31	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 19:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 19:31	1
2-Butanone (MEK)	1.4	J	2.9	0.59	ug/m3			03/19/14 19:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 19:31	1
2-Methylbutane	0.83	J	1.5	0.091	ug/m3			03/19/14 19:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 19:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/19/14 19:31	1
Acetone	5.5	J	12	3.3	ug/m3			03/19/14 19:31	1
Benzene	0.64		0.64	0.18	ug/m3			03/19/14 19:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 19:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 19:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 19:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 19:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 19:31	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/19/14 19:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 19:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 19:31	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 19:31	1
Chloromethane	0.97	J	1.0	0.33	ug/m3			03/19/14 19:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 19:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 19:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 19:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 19:31	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 19:31	1
Ethanol	14		3.8	3.8	ug/m3			03/19/14 19:31	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 19:31	1
Heptane	0.20	J	2.0	0.19	ug/m3			03/19/14 19:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 19:31	1
Hexane	0.34	J	1.8	0.11	ug/m3			03/19/14 19:31	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 19:31	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 19:31	1
Isopropyl alcohol	1.7	J	4.9	0.23	ug/m3			03/19/14 19:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 19:31	1
Methylene Chloride	0.98	J	1.7	0.45	ug/m3			03/19/14 19:31	1
m-Xylene & p-Xylene	0.97		0.87	0.52	ug/m3			03/19/14 19:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 19:31	1
o-Xylene	0.38	J	0.87	0.26	ug/m3			03/19/14 19:31	1
Propene	0.70	J cn	0.86	0.13	ug/m3			03/19/14 19:31	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 19:31	1
Tetrachloroethene	0.63	J	1.4	0.27	ug/m3			03/19/14 19:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 19:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 19:31	1
Toluene	1.3		0.75	0.45	ug/m3			03/19/14 19:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 19:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 19:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 19:31	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 19:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		60 - 140					03/19/14 19:31	1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 20:25	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 20:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/19/14 20:25	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 20:25	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 20:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 20:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 20:25	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 20:25	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 20:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 20:25	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 20:25	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 20:25	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 20:25	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 20:25	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 20:25	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 20:25	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 20:25	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 20:25	1
2,2,4-Trimethylpentane	0.042	J	0.50	0.039	ppb v/v			03/19/14 20:25	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
2-Butanone (MEK)	0.22	J	1.0	0.20	ppb v/v			03/19/14 20:25	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 20:25	1
2-Methylbutane	0.32	J	0.50	0.031	ppb v/v			03/19/14 20:25	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 20:25	1
4-Methyl-2-pentanone (MIBK)	0.10	J	0.50	0.045	ppb v/v			03/19/14 20:25	1
Acetone	1.7	J	5.0	1.4	ppb v/v			03/19/14 20:25	1
Benzene	0.23		0.20	0.056	ppb v/v			03/19/14 20:25	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 20:25	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 20:25	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 20:25	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 20:25	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 20:25	1
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v			03/19/14 20:25	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 20:25	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 20:25	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 20:25	1
Chloromethane	0.54		0.50	0.16	ppb v/v			03/19/14 20:25	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 20:25	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 20:25	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 20:25	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 20:25	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/19/14 20:25	1
Ethanol	12		2.0	2.0	ppb v/v			03/19/14 20:25	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 20:25	1
Heptane	0.053	J	0.50	0.047	ppb v/v			03/19/14 20:25	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 20:25	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/19/14 20:25	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 20:25	1
Isopropyl alcohol	0.83	J	2.0	0.094	ppb v/v			03/19/14 20:25	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 20:25	1
Methylene Chloride	0.29	J	0.50	0.13	ppb v/v			03/19/14 20:25	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v			03/19/14 20:25	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 20:25	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 20:25	1
Propene	0.43	J cn	0.50	0.077	ppb v/v			03/19/14 20:25	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 20:25	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/19/14 20:25	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 20:25	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
Toluene	0.37		0.20	0.12	ppb v/v			03/19/14 20:25	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 20:25	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 20:25	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 20:25	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/19/14 20:25	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 20:25	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 20:25	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 20:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/19/14 20:25	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 20:25	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 20:25	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 20:25	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 20:25	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 20:25	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 20:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 20:25	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 20:25	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 20:25	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 20:25	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 20:25	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 20:25	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 20:25	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 20:25	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 20:25	1
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3			03/19/14 20:25	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 20:25	1
2-Butanone (MEK)	0.65	J	2.9	0.59	ug/m3			03/19/14 20:25	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 20:25	1
2-Methylbutane	0.96	J	1.5	0.091	ug/m3			03/19/14 20:25	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 20:25	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 20:25	1
4-Methyl-2-pentanone (MIBK)	0.42	J	2.0	0.18	ug/m3			03/19/14 20:25	1
Acetone	4.1	J	12	3.3	ug/m3			03/19/14 20:25	1
Benzene	0.74		0.64	0.18	ug/m3			03/19/14 20:25	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 20:25	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 20:25	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 20:25	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 20:25	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 20:25	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 20:25	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 20:25	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 20:25	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 20:25	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 20:25	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 20:25	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 20:25	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 20:25	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 20:25	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/19/14 20:25	1
Ethanol	23		3.8	3.8	ug/m3			03/19/14 20:25	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 20:25	1
Heptane	0.22	J	2.0	0.19	ug/m3			03/19/14 20:25	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 20:25	1
Hexane	0.39	J	1.8	0.11	ug/m3			03/19/14 20:25	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 20:25	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 20:25	1
Isopropyl alcohol	2.1	J	4.9	0.23	ug/m3			03/19/14 20:25	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 20:25	1
Methylene Chloride	1.0	J	1.7	0.45	ug/m3			03/19/14 20:25	1
m-Xylene & p-Xylene	0.62	J	0.87	0.52	ug/m3			03/19/14 20:25	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 20:25	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 20:25	1
Propene	0.74	J cn	0.86	0.13	ug/m3			03/19/14 20:25	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 20:25	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/19/14 20:25	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 20:25	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 20:25	1
Toluene	1.4		0.75	0.45	ug/m3			03/19/14 20:25	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 20:25	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 20:25	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 20:25	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 20:25	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		60 - 140					03/19/14 20:25	1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 21:18	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 21:18	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/19/14 21:18	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 21:18	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 21:18	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 21:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 21:18	1
1,2,4-Trimethylbenzene	0.088	J	0.20	0.063	ppb v/v			03/19/14 21:18	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 21:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 21:18	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 21:18	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 21:18	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 21:18	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 21:18	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 21:18	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 21:18	1
1,4-Dichlorobenzene	0.25		0.20	0.064	ppb v/v			03/19/14 21:18	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 21:18	1
2,2,4-Trimethylpentane	0.083	J	0.50	0.039	ppb v/v			03/19/14 21:18	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
2-Butanone (MEK)	0.44	J	1.0	0.20	ppb v/v			03/19/14 21:18	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 21:18	1
2-Methylbutane	0.74		0.50	0.031	ppb v/v			03/19/14 21:18	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 21:18	1
4-Methyl-2-pentanone (MIBK)	0.27	J	0.50	0.045	ppb v/v			03/19/14 21:18	1
Acetone	4.0	J	5.0	1.4	ppb v/v			03/19/14 21:18	1
Benzene	0.28		0.20	0.056	ppb v/v			03/19/14 21:18	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 21:18	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 21:18	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 21:18	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 21:18	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 21:18	1
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v			03/19/14 21:18	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 21:18	1
Chloroethane	0.11	J	0.20	0.035	ppb v/v			03/19/14 21:18	1
Chloroform	0.55		0.20	0.038	ppb v/v			03/19/14 21:18	1
Chloromethane	0.54		0.50	0.16	ppb v/v			03/19/14 21:18	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 21:18	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 21:18	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 21:18	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 21:18	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 21:18	1
Ethanol	50		2.0	2.0	ppb v/v			03/19/14 21:18	1
Ethylbenzene	0.092	J	0.20	0.068	ppb v/v			03/19/14 21:18	1
Heptane	0.098	J	0.50	0.047	ppb v/v			03/19/14 21:18	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 21:18	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/19/14 21:18	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 21:18	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	2.1		2.0	0.094	ppb v/v			03/19/14 21:18	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 21:18	1
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v			03/19/14 21:18	1
m-Xylene & p-Xylene	0.28		0.20	0.12	ppb v/v			03/19/14 21:18	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 21:18	1
o-Xylene	0.11	J	0.20	0.061	ppb v/v			03/19/14 21:18	1
Propene	1.0	cn	0.50	0.077	ppb v/v			03/19/14 21:18	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 21:18	1
Tetrachloroethene	0.075	J	0.20	0.040	ppb v/v			03/19/14 21:18	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 21:18	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
Toluene	0.57		0.20	0.12	ppb v/v			03/19/14 21:18	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 21:18	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 21:18	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 21:18	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 21:18	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 21:18	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 21:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 21:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/19/14 21:18	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 21:18	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 21:18	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 21:18	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 21:18	1
1,2,4-Trimethylbenzene	0.43	J	0.98	0.31	ug/m3			03/19/14 21:18	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 21:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 21:18	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 21:18	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 21:18	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 21:18	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 21:18	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 21:18	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 21:18	1
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3			03/19/14 21:18	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 21:18	1
2,2,4-Trimethylpentane	0.39	J	2.3	0.18	ug/m3			03/19/14 21:18	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 21:18	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/19/14 21:18	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 21:18	1
2-Methylbutane	2.2		1.5	0.091	ug/m3			03/19/14 21:18	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 21:18	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 21:18	1
4-Methyl-2-pentanone (MIBK)	1.1	J	2.0	0.18	ug/m3			03/19/14 21:18	1
Acetone	9.4	J	12	3.3	ug/m3			03/19/14 21:18	1
Benzene	0.89		0.64	0.18	ug/m3			03/19/14 21:18	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 21:18	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 21:18	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 21:18	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 21:18	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 21:18	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 21:18	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 21:18	1
Chloroethane	0.30	J	0.53	0.092	ug/m3			03/19/14 21:18	1
Chloroform	2.7		0.98	0.19	ug/m3			03/19/14 21:18	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 21:18	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 21:18	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 21:18	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 21:18	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 21:18	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 21:18	1
Ethanol	95		3.8	3.8	ug/m3			03/19/14 21:18	1
Ethylbenzene	0.40	J	0.87	0.30	ug/m3			03/19/14 21:18	1
Heptane	0.40	J	2.0	0.19	ug/m3			03/19/14 21:18	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 21:18	1
Hexane	0.49	J	1.8	0.11	ug/m3			03/19/14 21:18	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 21:18	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 21:18	1
Isopropyl alcohol	5.1		4.9	0.23	ug/m3			03/19/14 21:18	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 21:18	1
Methylene Chloride	0.95	J	1.7	0.45	ug/m3			03/19/14 21:18	1
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3			03/19/14 21:18	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 21:18	1
o-Xylene	0.49	J	0.87	0.26	ug/m3			03/19/14 21:18	1
Propene	1.7	cn	0.86	0.13	ug/m3			03/19/14 21:18	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 21:18	1
Tetrachloroethene	0.51	J	1.4	0.27	ug/m3			03/19/14 21:18	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 21:18	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 21:18	1
Toluene	2.2		0.75	0.45	ug/m3			03/19/14 21:18	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 21:18	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 21:18	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 21:18	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 21:18	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		03/19/14 21:18	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Date Collected: 03/13/14 17:05

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.051	J	0.20	0.030	ppb v/v			03/19/14 22:12	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/19/14 22:12	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 22:12	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 22:12	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 22:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 22:12	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 22:12	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 22:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 22:12	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 22:12	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 22:12	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 22:12	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 22:12	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 22:12	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 22:12	1
1,4-Dichlorobenzene	0.26		0.20	0.064	ppb v/v			03/19/14 22:12	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 22:12	1
2,2,4-Trimethylpentane	0.056	J	0.50	0.039	ppb v/v			03/19/14 22:12	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
2-Butanone (MEK)	0.30	J	1.0	0.20	ppb v/v			03/19/14 22:12	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 22:12	1
2-Methylbutane	0.47	J	0.50	0.031	ppb v/v			03/19/14 22:12	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 22:12	1
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v			03/19/14 22:12	1
Acetone	2.9	J	5.0	1.4	ppb v/v			03/19/14 22:12	1
Benzene	0.24		0.20	0.056	ppb v/v			03/19/14 22:12	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 22:12	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 22:12	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 22:12	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 22:12	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 22:12	1
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v			03/19/14 22:12	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 22:12	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 22:12	1
Chloroform	0.14	J	0.20	0.038	ppb v/v			03/19/14 22:12	1
Chloromethane	0.56		0.50	0.16	ppb v/v			03/19/14 22:12	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 22:12	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 22:12	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 22:12	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 22:12	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 22:12	1
Ethanol	160		2.0	2.0	ppb v/v			03/19/14 22:12	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 22:12	1
Heptane	0.084	J	0.50	0.047	ppb v/v			03/19/14 22:12	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 22:12	1
Hexane	0.12	J	0.50	0.032	ppb v/v			03/19/14 22:12	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Date Collected: 03/13/14 17:05

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 22:12	1
Isopropyl alcohol	6.2		2.0	0.094	ppb v/v			03/19/14 22:12	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 22:12	1
Methylene Chloride	0.51		0.50	0.13	ppb v/v			03/19/14 22:12	1
m-Xylene & p-Xylene	0.20		0.20	0.12	ppb v/v			03/19/14 22:12	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 22:12	1
o-Xylene	0.075	J	0.20	0.061	ppb v/v			03/19/14 22:12	1
Propene	0.93	cn	0.50	0.077	ppb v/v			03/19/14 22:12	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 22:12	1
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v			03/19/14 22:12	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 22:12	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
Toluene	0.58		0.20	0.12	ppb v/v			03/19/14 22:12	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 22:12	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 22:12	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 22:12	1
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v			03/19/14 22:12	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 22:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.28	J	1.1	0.16	ug/m3			03/19/14 22:12	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 22:12	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 22:12	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 22:12	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 22:12	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 22:12	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 22:12	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 22:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 22:12	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 22:12	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 22:12	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 22:12	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 22:12	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 22:12	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 22:12	1
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3			03/19/14 22:12	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 22:12	1
2,2,4-Trimethylpentane	0.26	J	2.3	0.18	ug/m3			03/19/14 22:12	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 22:12	1
2-Butanone (MEK)	0.88	J	2.9	0.59	ug/m3			03/19/14 22:12	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 22:12	1
2-Methylbutane	1.4	J	1.5	0.091	ug/m3			03/19/14 22:12	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 22:12	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 22:12	1
4-Methyl-2-pentanone (MIBK)	0.57	J	2.0	0.18	ug/m3			03/19/14 22:12	1
Acetone	6.9	J	12	3.3	ug/m3			03/19/14 22:12	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Date Collected: 03/13/14 17:05

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.76		0.64	0.18	ug/m3			03/19/14 22:12	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 22:12	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 22:12	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 22:12	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 22:12	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 22:12	1
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3			03/19/14 22:12	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 22:12	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 22:12	1
Chloroform	0.68	J	0.98	0.19	ug/m3			03/19/14 22:12	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 22:12	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 22:12	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 22:12	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 22:12	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 22:12	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 22:12	1
Ethanol	300		3.8	3.8	ug/m3			03/19/14 22:12	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 22:12	1
Heptane	0.34	J	2.0	0.19	ug/m3			03/19/14 22:12	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 22:12	1
Hexane	0.42	J	1.8	0.11	ug/m3			03/19/14 22:12	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 22:12	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 22:12	1
Isopropyl alcohol	15		4.9	0.23	ug/m3			03/19/14 22:12	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 22:12	1
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/19/14 22:12	1
m-Xylene & p-Xylene	0.85		0.87	0.52	ug/m3			03/19/14 22:12	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 22:12	1
o-Xylene	0.33	J	0.87	0.26	ug/m3			03/19/14 22:12	1
Propene	1.6	cn	0.86	0.13	ug/m3			03/19/14 22:12	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 22:12	1
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3			03/19/14 22:12	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 22:12	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 22:12	1
Toluene	2.2		0.75	0.45	ug/m3			03/19/14 22:12	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 22:12	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 22:12	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 22:12	1
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3			03/19/14 22:12	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/19/14 22:12	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Date Collected: 03/13/14 15:17

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/19/14 23:06	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 23:06	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 23:06	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 23:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 23:06	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 23:06	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 23:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 23:06	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 23:06	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 23:06	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 23:06	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 23:06	1
1,3-Butadiene	0.14	J	0.40	0.064	ppb v/v			03/19/14 23:06	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 23:06	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 23:06	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 23:06	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 23:06	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v			03/19/14 23:06	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 23:06	1
2-Methylbutane	0.64		0.50	0.031	ppb v/v			03/19/14 23:06	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 23:06	1
4-Methyl-2-pentanone (MIBK)	0.97		0.50	0.045	ppb v/v			03/19/14 23:06	1
Acetone	2.3	J	5.0	1.4	ppb v/v			03/19/14 23:06	1
Benzene	0.24		0.20	0.056	ppb v/v			03/19/14 23:06	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 23:06	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 23:06	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 23:06	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 23:06	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 23:06	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/19/14 23:06	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 23:06	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 23:06	1
Chloroform	0.050	J	0.20	0.038	ppb v/v			03/19/14 23:06	1
Chloromethane	0.60		0.50	0.16	ppb v/v			03/19/14 23:06	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 23:06	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 23:06	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 23:06	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 23:06	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/19/14 23:06	1
Ethanol	19		2.0	2.0	ppb v/v			03/19/14 23:06	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 23:06	1
Heptane	0.058	J	0.50	0.047	ppb v/v			03/19/14 23:06	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 23:06	1
Hexane	0.12	J	0.50	0.032	ppb v/v			03/19/14 23:06	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Date Collected: 03/13/14 15:17

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 23:06	1
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v			03/19/14 23:06	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 23:06	1
Methylene Chloride	0.23 J		0.50	0.13	ppb v/v			03/19/14 23:06	1
m-Xylene & p-Xylene	0.16 J		0.20	0.12	ppb v/v			03/19/14 23:06	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 23:06	1
o-Xylene	0.063 J		0.20	0.061	ppb v/v			03/19/14 23:06	1
Propene	2.6 cn		0.50	0.077	ppb v/v			03/19/14 23:06	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 23:06	1
Tetrachloroethene	0.050 J		0.20	0.040	ppb v/v			03/19/14 23:06	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 23:06	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
Toluene	0.82		0.20	0.12	ppb v/v			03/19/14 23:06	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 23:06	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 23:06	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 23:06	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 23:06	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 23:06	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 23:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54 J		1.5	0.24	ug/m3			03/19/14 23:06	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 23:06	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 23:06	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 23:06	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 23:06	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 23:06	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 23:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 23:06	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 23:06	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 23:06	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 23:06	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 23:06	1
1,3-Butadiene	0.31 J		0.88	0.14	ug/m3			03/19/14 23:06	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 23:06	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 23:06	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 23:06	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 23:06	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 23:06	1
2-Butanone (MEK)	1.1 J		2.9	0.59	ug/m3			03/19/14 23:06	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 23:06	1
2-Methylbutane	1.9		1.5	0.091	ug/m3			03/19/14 23:06	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 23:06	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 23:06	1
4-Methyl-2-pentanone (MIBK)	4.0		2.0	0.18	ug/m3			03/19/14 23:06	1
Acetone	5.5 J		12	3.3	ug/m3			03/19/14 23:06	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Date Collected: 03/13/14 15:17

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.76		0.64	0.18	ug/m3			03/19/14 23:06	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 23:06	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 23:06	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 23:06	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 23:06	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 23:06	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/19/14 23:06	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 23:06	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 23:06	1
Chloroform	0.25	J	0.98	0.19	ug/m3			03/19/14 23:06	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 23:06	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 23:06	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 23:06	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 23:06	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 23:06	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 23:06	1
Ethanol	35		3.8	3.8	ug/m3			03/19/14 23:06	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 23:06	1
Heptane	0.24	J	2.0	0.19	ug/m3			03/19/14 23:06	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 23:06	1
Hexane	0.41	J	1.8	0.11	ug/m3			03/19/14 23:06	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 23:06	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 23:06	1
Isopropyl alcohol	14		4.9	0.23	ug/m3			03/19/14 23:06	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 23:06	1
Methylene Chloride	0.81	J	1.7	0.45	ug/m3			03/19/14 23:06	1
m-Xylene & p-Xylene	0.70	J	0.87	0.52	ug/m3			03/19/14 23:06	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 23:06	1
o-Xylene	0.28	J	0.87	0.26	ug/m3			03/19/14 23:06	1
Propene	4.4	cn	0.86	0.13	ug/m3			03/19/14 23:06	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 23:06	1
Tetrachloroethene	0.34	J	1.4	0.27	ug/m3			03/19/14 23:06	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 23:06	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 23:06	1
Toluene	3.1		0.75	0.45	ug/m3			03/19/14 23:06	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 23:06	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 23:06	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 23:06	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 23:06	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/19/14 23:06	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/20/14 00:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 00:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 00:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 00:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 00:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 00:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 00:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 00:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 00:01	1
1,3-Butadiene	0.13	J	0.40	0.064	ppb v/v			03/20/14 00:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 00:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 00:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 00:01	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 00:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v			03/20/14 00:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 00:01	1
2-Methylbutane	0.61		0.50	0.031	ppb v/v			03/20/14 00:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 00:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/20/14 00:01	1
Acetone	2.6	J	5.0	1.4	ppb v/v			03/20/14 00:01	1
Benzene	0.24		0.20	0.056	ppb v/v			03/20/14 00:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 00:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 00:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 00:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 00:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 00:01	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/20/14 00:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 00:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 00:01	1
Chloroform	0.052	J	0.20	0.038	ppb v/v			03/20/14 00:01	1
Chloromethane	0.56		0.50	0.16	ppb v/v			03/20/14 00:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 00:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 00:01	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 00:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 00:01	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/20/14 00:01	1
Ethanol	18		2.0	2.0	ppb v/v			03/20/14 00:01	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 00:01	1
Heptane	0.076	J	0.50	0.047	ppb v/v			03/20/14 00:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 00:01	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/20/14 00:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 00:01	1
Isopropyl alcohol	5.4		2.0	0.094	ppb v/v			03/20/14 00:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 00:01	1
Methylene Chloride	0.30	J	0.50	0.13	ppb v/v			03/20/14 00:01	1
m-Xylene & p-Xylene	0.15	J	0.20	0.12	ppb v/v			03/20/14 00:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 00:01	1
o-Xylene	0.062	J	0.20	0.061	ppb v/v			03/20/14 00:01	1
Propene	2.4	cn	0.50	0.077	ppb v/v			03/20/14 00:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 00:01	1
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v			03/20/14 00:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 00:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
Toluene	0.63		0.20	0.12	ppb v/v			03/20/14 00:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 00:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 00:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 00:01	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 00:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 00:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/20/14 00:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 00:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 00:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 00:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 00:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 00:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 00:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 00:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 00:01	1
1,3-Butadiene	0.28	J	0.88	0.14	ug/m3			03/20/14 00:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 00:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 00:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 00:01	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 00:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 00:01	1
2-Butanone (MEK)	0.80	J	2.9	0.59	ug/m3			03/20/14 00:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 00:01	1
2-Methylbutane	1.8		1.5	0.091	ug/m3			03/20/14 00:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 00:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 00:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/20/14 00:01	1
Acetone	6.2	J	12	3.3	ug/m3			03/20/14 00:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.78		0.64	0.18	ug/m3			03/20/14 00:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 00:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 00:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 00:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 00:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 00:01	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/20/14 00:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 00:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 00:01	1
Chloroform	0.26	J	0.98	0.19	ug/m3			03/20/14 00:01	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/20/14 00:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 00:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 00:01	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 00:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 00:01	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/20/14 00:01	1
Ethanol	33		3.8	3.8	ug/m3			03/20/14 00:01	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 00:01	1
Heptane	0.31	J	2.0	0.19	ug/m3			03/20/14 00:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 00:01	1
Hexane	0.50	J	1.8	0.11	ug/m3			03/20/14 00:01	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 00:01	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 00:01	1
Isopropyl alcohol	13		4.9	0.23	ug/m3			03/20/14 00:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 00:01	1
Methylene Chloride	1.1	J	1.7	0.45	ug/m3			03/20/14 00:01	1
m-Xylene & p-Xylene	0.65	J	0.87	0.52	ug/m3			03/20/14 00:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 00:01	1
o-Xylene	0.27	J	0.87	0.26	ug/m3			03/20/14 00:01	1
Propene	4.1	cn	0.86	0.13	ug/m3			03/20/14 00:01	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 00:01	1
Tetrachloroethene	0.29	J	1.4	0.27	ug/m3			03/20/14 00:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 00:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 00:01	1
Toluene	2.4		0.75	0.45	ug/m3			03/20/14 00:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 00:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 00:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 00:01	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 00:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/20/14 00:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Date Collected: 03/13/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 01:49	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v			03/20/14 01:49	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 01:49	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 01:49	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 01:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 01:49	1
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v			03/20/14 01:49	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 01:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 01:49	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 01:49	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 01:49	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 01:49	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 01:49	1
1,3-Butadiene	0.58		0.40	0.064	ppb v/v			03/20/14 01:49	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 01:49	1
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v			03/20/14 01:49	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 01:49	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 01:49	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v			03/20/14 01:49	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 01:49	1
2-Methylbutane	0.64		0.50	0.031	ppb v/v			03/20/14 01:49	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 01:49	1
4-Methyl-2-pentanone (MIBK)	0.31	J	0.50	0.045	ppb v/v			03/20/14 01:49	1
Acetone	7.4		5.0	1.4	ppb v/v			03/20/14 01:49	1
Benzene	0.71		0.20	0.056	ppb v/v			03/20/14 01:49	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 01:49	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 01:49	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 01:49	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 01:49	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 01:49	1
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v			03/20/14 01:49	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 01:49	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 01:49	1
Chloroform	0.24		0.20	0.038	ppb v/v			03/20/14 01:49	1
Chloromethane	1.2		0.50	0.16	ppb v/v			03/20/14 01:49	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 01:49	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 01:49	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 01:49	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 01:49	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/20/14 01:49	1
Ethanol	68		2.0	2.0	ppb v/v			03/20/14 01:49	1
Ethylbenzene	0.16	J	0.20	0.068	ppb v/v			03/20/14 01:49	1
Heptane	0.11	J	0.50	0.047	ppb v/v			03/20/14 01:49	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 01:49	1
Hexane	0.17	J	0.50	0.032	ppb v/v			03/20/14 01:49	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Date Collected: 03/13/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 01:49	1
Isopropyl alcohol	5.1		2.0	0.094	ppb v/v			03/20/14 01:49	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 01:49	1
Methylene Chloride	0.22	J	0.50	0.13	ppb v/v			03/20/14 01:49	1
m-Xylene & p-Xylene	0.48		0.20	0.12	ppb v/v			03/20/14 01:49	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 01:49	1
o-Xylene	0.14	J	0.20	0.061	ppb v/v			03/20/14 01:49	1
Propene	3.8	cn	0.50	0.077	ppb v/v			03/20/14 01:49	1
Styrene	0.10	J	0.20	0.058	ppb v/v			03/20/14 01:49	1
Tetrachloroethene	0.044	J	0.20	0.040	ppb v/v			03/20/14 01:49	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 01:49	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
Toluene	1.6		0.20	0.12	ppb v/v			03/20/14 01:49	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 01:49	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 01:49	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 01:49	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 01:49	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 01:49	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 01:49	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/20/14 01:49	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 01:49	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 01:49	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 01:49	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 01:49	1
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3			03/20/14 01:49	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 01:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 01:49	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 01:49	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 01:49	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 01:49	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 01:49	1
1,3-Butadiene	1.3		0.88	0.14	ug/m3			03/20/14 01:49	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 01:49	1
1,4-Dichlorobenzene	0.82	J	1.2	0.38	ug/m3			03/20/14 01:49	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 01:49	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 01:49	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 01:49	1
2-Butanone (MEK)	3.2		2.9	0.59	ug/m3			03/20/14 01:49	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 01:49	1
2-Methylbutane	1.9		1.5	0.091	ug/m3			03/20/14 01:49	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 01:49	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 01:49	1
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3			03/20/14 01:49	1
Acetone	18		12	3.3	ug/m3			03/20/14 01:49	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Date Collected: 03/13/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.3		0.64	0.18	ug/m3			03/20/14 01:49	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 01:49	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 01:49	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 01:49	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 01:49	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 01:49	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/20/14 01:49	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 01:49	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 01:49	1
Chloroform	1.2		0.98	0.19	ug/m3			03/20/14 01:49	1
Chloromethane	2.5		1.0	0.33	ug/m3			03/20/14 01:49	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 01:49	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 01:49	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 01:49	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 01:49	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/20/14 01:49	1
Ethanol	130		3.8	3.8	ug/m3			03/20/14 01:49	1
Ethylbenzene	0.70	J	0.87	0.30	ug/m3			03/20/14 01:49	1
Heptane	0.44	J	2.0	0.19	ug/m3			03/20/14 01:49	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 01:49	1
Hexane	0.59	J	1.8	0.11	ug/m3			03/20/14 01:49	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 01:49	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 01:49	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/20/14 01:49	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 01:49	1
Methylene Chloride	0.78	J	1.7	0.45	ug/m3			03/20/14 01:49	1
m-Xylene & p-Xylene	2.1		0.87	0.52	ug/m3			03/20/14 01:49	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 01:49	1
o-Xylene	0.59	J	0.87	0.26	ug/m3			03/20/14 01:49	1
Propene	6.6	cn	0.86	0.13	ug/m3			03/20/14 01:49	1
Styrene	0.43	J	0.85	0.25	ug/m3			03/20/14 01:49	1
Tetrachloroethene	0.30	J	1.4	0.27	ug/m3			03/20/14 01:49	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 01:49	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 01:49	1
Toluene	5.9		0.75	0.45	ug/m3			03/20/14 01:49	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 01:49	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 01:49	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 01:49	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 01:49	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/20/14 01:49	1

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (60-140)			
140-1063-1	IA4-E14	91			
140-1063-2	IA5-E14	94			
140-1063-3	IA6-E14	95			
140-1063-4	IA7-E14	92			
140-1063-5	AMB-2	90			
140-1063-6	AMB-4	90			
140-1063-8	PCV-IA2-B7	99			
140-1063-9	PCV-IA3-B7	95			
140-1063-10	PCV-IA1-B11	94			
140-1063-11	PCV-IA2-B11	96			
140-1063-12	PCV-IA3-B11	99			
140-1063-13	IA1-E14	98			
140-1063-14	IA2-E14	97			
140-1063-15	IA3-E14	95			
140-1063-16	PCV-IA1-B5	96			
140-1063-16 - DL	PCV-IA1-B5	88			
140-1063-17	PCV-IA2-B5	97			
140-1063-17 - DL	PCV-IA2-B5	83			
140-1063-18	PCV-IAPC-B5	96			
140-1063-18 - DL	PCV-IAPC-B5	87			
140-1063-19	AMB-1	92			
140-1063-20	AMB-3	91			
140-1063-21	IA1-E19	95			
140-1063-22	IA2-E19	94			
140-1063-23	IA1-E17	94			
140-1063-24	IA1FD-E17	96			
140-1063-25	IA2-E17	95			
LCS 140-971/1002	Lab Control Sample	99			
LCS 140-976/1002	Lab Control Sample	98			
LCS 140-984/1002	Lab Control Sample	100			
LCS 140-990/1002	Lab Control Sample	104			
MB 140-971/9	Method Blank	98			
MB 140-976/1004	Method Blank	93			
MB 140-984/5	Method Blank	93			
MB 140-990/1005	Method Blank	96			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-971/9

Matrix: Air

Analysis Batch: 971

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 16:42	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/18/14 16:42	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 16:42	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 16:42	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 16:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 16:42	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 16:42	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 16:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 16:42	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 16:42	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 16:42	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 16:42	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 16:42	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 16:42	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 16:42	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 16:42	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 16:42	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/18/14 16:42	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/18/14 16:42	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 16:42	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/18/14 16:42	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/18/14 16:42	1
Acetone	ND		5.0	1.4	ppb v/v			03/18/14 16:42	1
Benzene	ND		0.20	0.056	ppb v/v			03/18/14 16:42	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 16:42	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 16:42	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 16:42	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 16:42	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 16:42	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/18/14 16:42	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 16:42	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 16:42	1
Chloroform	ND		0.20	0.038	ppb v/v			03/18/14 16:42	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/18/14 16:42	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 16:42	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 16:42	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 16:42	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 16:42	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/18/14 16:42	1
Ethanol	ND		2.0	2.0	ppb v/v			03/18/14 16:42	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 16:42	1
Heptane	ND		0.50	0.047	ppb v/v			03/18/14 16:42	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 16:42	1
Hexane	ND		0.50	0.032	ppb v/v			03/18/14 16:42	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-971/9

Matrix: Air

Analysis Batch: 971

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 16:42	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/18/14 16:42	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 16:42	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/18/14 16:42	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/18/14 16:42	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 16:42	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/18/14 16:42	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 16:42	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 16:42	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/18/14 16:42	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 16:42	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 16:42	1
Toluene	ND		0.20	0.12	ppb v/v			03/18/14 16:42	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 16:42	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 16:42	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 16:42	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/18/14 16:42	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 16:42	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/18/14 16:42	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 16:42	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 16:42	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 16:42	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 16:42	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 16:42	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 16:42	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 16:42	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 16:42	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 16:42	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 16:42	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 16:42	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 16:42	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 16:42	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 16:42	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 16:42	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/18/14 16:42	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 16:42	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/18/14 16:42	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 16:42	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/18/14 16:42	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 16:42	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/18/14 16:42	1
Acetone	ND		12	3.3	ug/m3			03/18/14 16:42	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-971/9

Matrix: Air

Analysis Batch: 971

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/18/14 16:42	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 16:42	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 16:42	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 16:42	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 16:42	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 16:42	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/18/14 16:42	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 16:42	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 16:42	1
Chloroform	ND		0.98	0.19	ug/m3			03/18/14 16:42	1
Chloromethane	ND		1.0	0.33	ug/m3			03/18/14 16:42	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 16:42	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 16:42	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 16:42	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 16:42	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/18/14 16:42	1
Ethanol	ND		3.8	3.8	ug/m3			03/18/14 16:42	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 16:42	1
Heptane	ND		2.0	0.19	ug/m3			03/18/14 16:42	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 16:42	1
Hexane	ND		1.8	0.11	ug/m3			03/18/14 16:42	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 16:42	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 16:42	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/18/14 16:42	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 16:42	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/18/14 16:42	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/18/14 16:42	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 16:42	1
o-Xylene	ND		0.87	0.26	ug/m3			03/18/14 16:42	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 16:42	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 16:42	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/18/14 16:42	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 16:42	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 16:42	1
Toluene	ND		0.75	0.45	ug/m3			03/18/14 16:42	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 16:42	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 16:42	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 16:42	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/18/14 16:42	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 16:42	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140					03/18/14 16:42	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002

Matrix: Air

Analysis Batch: 971

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1-Dichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1-Dichloroethene	2.00	2.29		ppb v/v		114	70 - 130
1,2,4-Trichlorobenzene	2.00	1.92		ppb v/v		96	60 - 140
1,2,4-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.13		ppb v/v		106	60 - 140
1,2-Dichlorobenzene	2.00	1.97		ppb v/v		98	70 - 130
1,2-Dichloroethane	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dichloropropane	2.00	1.99		ppb v/v		100	70 - 130
1,3,5-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,3-Butadiene	2.00	2.05		ppb v/v		102	60 - 140
1,3-Dichlorobenzene	2.00	1.95		ppb v/v		97	70 - 130
1,4-Dichlorobenzene	2.00	1.93		ppb v/v		97	70 - 130
1,4-Dioxane	2.00	1.97		ppb v/v		99	60 - 140
2,2,4-Trimethylpentane	2.00	2.08		ppb v/v		104	70 - 130
2,3-Dimethylpentane	2.00	2.03		ppb v/v		101	20 - 180
2-Butanone (MEK)	2.00	1.96		ppb v/v		98	60 - 140
2-Hexanone	2.00	2.10		ppb v/v		105	60 - 140
2-Methylbutane	2.00	1.91		ppb v/v		96	70 - 130
2-Methylpentane	2.00	1.86		ppb v/v		93	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.02		ppb v/v		101	60 - 140
Acetone	2.00	1.26	J	ppb v/v		63	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.09		ppb v/v		104	70 - 130
Bromodichloromethane	2.00	2.18		ppb v/v		109	70 - 130
Bromoform	2.00	2.07		ppb v/v		103	60 - 140
Bromomethane	2.00	1.92		ppb v/v		96	70 - 130
Carbon disulfide	2.00	2.01		ppb v/v		100	70 - 130
Carbon tetrachloride	2.00	2.13		ppb v/v		106	70 - 130
Chlorobenzene	2.00	2.03		ppb v/v		102	70 - 130
Chloroethane	2.00	1.93		ppb v/v		97	70 - 130
Chloroform	2.00	2.02		ppb v/v		101	70 - 130
Chloromethane	2.00	1.97		ppb v/v		98	60 - 140
cis-1,2-Dichloroethene	2.00	2.08		ppb v/v		104	70 - 130
cis-1,3-Dichloropropene	2.00	1.98		ppb v/v		99	70 - 130
Cyclohexane	2.00	2.07		ppb v/v		103	70 - 130
Dibromochloromethane	2.00	2.20		ppb v/v		110	70 - 130
Dichlorodifluoromethane	2.00	2.05		ppb v/v		103	60 - 140
Ethanol	10.0	9.88		ppb v/v		99	20 - 180
Ethylbenzene	2.00	2.22		ppb v/v		111	70 - 130
Heptane	2.00	2.11		ppb v/v		105	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002

Matrix: Air

Analysis Batch: 971

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.71		ppb v/v		85	60 - 140
Hexane	2.00	1.78		ppb v/v		89	70 - 130
Indane	2.00	2.20		ppb v/v		110	20 - 180
Indene	2.00	2.28		ppb v/v		114	20 - 180
Isopropyl alcohol	2.00	1.89		ppb v/v		94	60 - 140
Methyl tert-butyl ether	2.00	2.09		ppb v/v		104	60 - 140
Methylene Chloride	2.00	2.12		ppb v/v		106	70 - 130
m-Xylene & p-Xylene	4.00	4.28		ppb v/v		107	70 - 130
Naphthalene	2.00	1.93		ppb v/v		96	40 - 140
o-Xylene	2.00	2.19		ppb v/v		110	70 - 130
Propene	2.00	1.90		ppb v/v		95	60 - 140
Styrene	2.00	2.29		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.17		ppb v/v		109	70 - 130
Tetrahydrofuran	2.00	2.01		ppb v/v		100	60 - 140
Thiophene	2.00	2.13		ppb v/v		106	20 - 180
Toluene	2.00	2.16		ppb v/v		108	70 - 130
trans-1,2-Dichloroethene	2.00	1.88		ppb v/v		94	70 - 130
trans-1,3-Dichloropropene	2.00	2.12		ppb v/v		106	70 - 130
Trichloroethene	2.00	2.14		ppb v/v		107	70 - 130
Trichlorofluoromethane	2.00	2.03		ppb v/v		101	60 - 140
Vinyl chloride	2.00	1.99		ppb v/v		99	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	10.9		ug/m3		100	70 - 130
1,1,2,2-Tetrachloroethane	14	15.2		ug/m3		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.2		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	11.3		ug/m3		104	70 - 130
1,1-Dichloroethane	8.1	8.07		ug/m3		100	70 - 130
1,1-Dichloroethene	7.9	9.07		ug/m3		114	70 - 130
1,2,4-Trichlorobenzene	15	14.3		ug/m3		96	60 - 140
1,2,4-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,2-Dibromoethane (EDB)	15	16.0		ug/m3		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	14.9		ug/m3		106	60 - 140
1,2-Dichlorobenzene	12	11.8		ug/m3		98	70 - 130
1,2-Dichloroethane	8.1	8.80		ug/m3		109	70 - 130
1,2-Dichloropropane	9.2	9.20		ug/m3		100	70 - 130
1,3,5-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,3-Butadiene	4.4	4.53		ug/m3		102	60 - 140
1,3-Dichlorobenzene	12	11.7		ug/m3		97	70 - 130
1,4-Dichlorobenzene	12	11.6		ug/m3		97	70 - 130
1,4-Dioxane	7.2	7.11		ug/m3		99	60 - 140
2,2,4-Trimethylpentane	9.3	9.72		ug/m3		104	70 - 130
2,3-Dimethylpentane	8.2	8.30		ug/m3		101	20 - 180
2-Butanone (MEK)	5.9	5.79		ug/m3		98	60 - 140
2-Hexanone	8.2	8.62		ug/m3		105	60 - 140
2-Methylbutane	5.9	5.64		ug/m3		96	70 - 130
2-Methylpentane	7.1	6.57		ug/m3		93	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002

Matrix: Air

Analysis Batch: 971

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier			Limits	
4-Ethyltoluene	9.8	11.0		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	8.26		ug/m3		101	60 - 140
Acetone	4.8	2.99	J	ug/m3		63	60 - 140
Benzene	6.4	6.65		ug/m3		104	70 - 130
Benzyl chloride	10	10.8		ug/m3		104	70 - 130
Bromodichloromethane	13	14.6		ug/m3		109	70 - 130
Bromoform	21	21.4		ug/m3		103	60 - 140
Bromomethane	7.8	7.45		ug/m3		96	70 - 130
Carbon disulfide	6.2	6.25		ug/m3		100	70 - 130
Carbon tetrachloride	13	13.4		ug/m3		106	70 - 130
Chlorobenzene	9.2	9.37		ug/m3		102	70 - 130
Chloroethane	5.3	5.10		ug/m3		97	70 - 130
Chloroform	9.8	9.86		ug/m3		101	70 - 130
Chloromethane	4.1	4.06		ug/m3		98	60 - 140
cis-1,2-Dichloroethene	7.9	8.24		ug/m3		104	70 - 130
cis-1,3-Dichloropropene	9.1	9.00		ug/m3		99	70 - 130
Cyclohexane	6.9	7.11		ug/m3		103	70 - 130
Dibromochloromethane	17	18.8		ug/m3		110	70 - 130
Dichlorodifluoromethane	9.9	10.2		ug/m3		103	60 - 140
Ethanol	19	18.6		ug/m3		99	20 - 180
Ethylbenzene	8.7	9.62		ug/m3		111	70 - 130
Heptane	8.2	8.64		ug/m3		105	70 - 130
Hexachlorobutadiene	21	18.2		ug/m3		85	60 - 140
Hexane	7.1	6.27		ug/m3		89	70 - 130
Indane	9.7	10.6		ug/m3		110	20 - 180
Indene	9.5	10.8		ug/m3		114	20 - 180
Isopropyl alcohol	4.9	4.64		ug/m3		94	60 - 140
Methyl tert-butyl ether	7.2	7.52		ug/m3		104	60 - 140
Methylene Chloride	7.0	7.35		ug/m3		106	70 - 130
m-Xylene & p-Xylene	17	18.6		ug/m3		107	70 - 130
Naphthalene	10	10.1		ug/m3		96	40 - 140
o-Xylene	8.7	9.52		ug/m3		110	70 - 130
Propene	3.4	3.27		ug/m3		95	60 - 140
Styrene	8.5	9.76		ug/m3		115	70 - 130
Tetrachloroethene	14	14.7		ug/m3		109	70 - 130
Tetrahydrofuran	5.9	5.93		ug/m3		100	60 - 140
Thiophene	6.9	7.32		ug/m3		106	20 - 180
Toluene	7.5	8.16		ug/m3		108	70 - 130
trans-1,2-Dichloroethene	7.9	7.45		ug/m3		94	70 - 130
trans-1,3-Dichloropropene	9.1	9.64		ug/m3		106	70 - 130
Trichloroethene	11	11.5		ug/m3		107	70 - 130
Trichlorofluoromethane	11	11.4		ug/m3		101	60 - 140
Vinyl chloride	5.1	5.09		ug/m3		99	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		60 - 140

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004

Matrix: Air

Analysis Batch: 976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 13:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/19/14 13:17	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 13:17	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 13:17	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 13:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 13:17	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 13:17	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 13:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 13:17	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 13:17	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 13:17	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 13:17	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 13:17	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 13:17	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 13:17	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 13:17	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 13:17	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 13:17	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/19/14 13:17	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 13:17	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/19/14 13:17	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/19/14 13:17	1
Acetone	ND		5.0	1.4	ppb v/v			03/19/14 13:17	1
Benzene	ND		0.20	0.056	ppb v/v			03/19/14 13:17	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 13:17	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 13:17	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 13:17	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 13:17	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 13:17	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/19/14 13:17	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 13:17	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 13:17	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 13:17	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/19/14 13:17	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 13:17	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 13:17	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 13:17	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 13:17	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/19/14 13:17	1
Ethanol	ND		2.0	2.0	ppb v/v			03/19/14 13:17	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 13:17	1
Heptane	ND		0.50	0.047	ppb v/v			03/19/14 13:17	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 13:17	1
Hexane	ND		0.50	0.032	ppb v/v			03/19/14 13:17	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004

Matrix: Air

Analysis Batch: 976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 13:17	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/19/14 13:17	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 13:17	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/19/14 13:17	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/19/14 13:17	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 13:17	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 13:17	1
Propene	ND		0.50	0.077	ppb v/v			03/19/14 13:17	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 13:17	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/19/14 13:17	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 13:17	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
Toluene	ND		0.20	0.12	ppb v/v			03/19/14 13:17	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 13:17	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 13:17	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 13:17	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/19/14 13:17	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 13:17	1

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 13:17	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/19/14 13:17	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 13:17	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 13:17	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 13:17	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 13:17	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 13:17	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 13:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 13:17	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 13:17	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 13:17	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 13:17	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 13:17	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 13:17	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 13:17	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 13:17	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 13:17	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 13:17	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 13:17	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/19/14 13:17	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 13:17	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/19/14 13:17	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 13:17	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/19/14 13:17	1
Acetone	ND		12	3.3	ug/m3			03/19/14 13:17	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004

Matrix: Air

Analysis Batch: 976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/19/14 13:17	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 13:17	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 13:17	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 13:17	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 13:17	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 13:17	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/19/14 13:17	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 13:17	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 13:17	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 13:17	1
Chloromethane	ND		1.0	0.33	ug/m3			03/19/14 13:17	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 13:17	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 13:17	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 13:17	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 13:17	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/19/14 13:17	1
Ethanol	ND		3.8	3.8	ug/m3			03/19/14 13:17	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 13:17	1
Heptane	ND		2.0	0.19	ug/m3			03/19/14 13:17	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 13:17	1
Hexane	ND		1.8	0.11	ug/m3			03/19/14 13:17	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 13:17	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 13:17	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/19/14 13:17	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 13:17	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/19/14 13:17	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/19/14 13:17	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 13:17	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 13:17	1
Propene	ND		0.86	0.13	ug/m3			03/19/14 13:17	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 13:17	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/19/14 13:17	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 13:17	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 13:17	1
Toluene	ND		0.75	0.45	ug/m3			03/19/14 13:17	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 13:17	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 13:17	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 13:17	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/19/14 13:17	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 13:17	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140					03/19/14 13:17	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002

Matrix: Air

Analysis Batch: 976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,1,1-Trichloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.36		ppb v/v		118	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.34		ppb v/v		117	70 - 130
1,1,2-Trichloroethane	2.00	2.19		ppb v/v		109	70 - 130
1,1-Dichloroethane	2.00	2.05		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.37		ppb v/v		118	70 - 130
1,2,4-Trichlorobenzene	2.00	2.03		ppb v/v		101	60 - 140
1,2,4-Trimethylbenzene	2.00	2.38		ppb v/v		119	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.20		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.23		ppb v/v		112	60 - 140
1,2-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,2-Dichloropropane	2.00	2.08		ppb v/v		104	70 - 130
1,3,5-Trimethylbenzene	2.00	2.37		ppb v/v		118	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,4-Dichlorobenzene	2.00	2.07		ppb v/v		104	70 - 130
1,4-Dioxane	2.00	2.14		ppb v/v		107	60 - 140
2,2,4-Trimethylpentane	2.00	2.13		ppb v/v		107	70 - 130
2,3-Dimethylpentane	2.00	2.10		ppb v/v		105	20 - 180
2-Butanone (MEK)	2.00	2.15		ppb v/v		107	60 - 140
2-Hexanone	2.00	2.27		ppb v/v		113	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.95		ppb v/v		97	20 - 180
4-Ethyltoluene	2.00	2.43		ppb v/v		122	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.23		ppb v/v		112	60 - 140
Acetone	2.00	1.42	J	ppb v/v		71	60 - 140
Benzene	2.00	2.02		ppb v/v		101	70 - 130
Benzyl chloride	2.00	2.19		ppb v/v		110	70 - 130
Bromodichloromethane	2.00	2.20		ppb v/v		110	70 - 130
Bromoform	2.00	2.18		ppb v/v		109	60 - 140
Bromomethane	2.00	1.97		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.06		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.15		ppb v/v		108	70 - 130
Chlorobenzene	2.00	2.12		ppb v/v		106	70 - 130
Chloroethane	2.00	1.94		ppb v/v		97	70 - 130
Chloroform	2.00	2.05		ppb v/v		102	70 - 130
Chloromethane	2.00	2.05		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	2.15		ppb v/v		107	70 - 130
cis-1,3-Dichloropropene	2.00	2.07		ppb v/v		103	70 - 130
Cyclohexane	2.00	2.16		ppb v/v		108	70 - 130
Dibromochloromethane	2.00	2.18		ppb v/v		109	70 - 130
Dichlorodifluoromethane	2.00	2.16		ppb v/v		108	60 - 140
Ethanol	10.0	10.6		ppb v/v		106	20 - 180
Ethylbenzene	2.00	2.41		ppb v/v		121	70 - 130
Heptane	2.00	2.16		ppb v/v		108	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002

Matrix: Air

Analysis Batch: 976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.81		ppb v/v		91	60 - 140
Hexane	2.00	1.84		ppb v/v		92	70 - 130
Indane	2.00	2.35		ppb v/v		118	20 - 180
Indene	2.00	2.42		ppb v/v		121	20 - 180
Isopropyl alcohol	2.00	1.99		ppb v/v		100	60 - 140
Methyl tert-butyl ether	2.00	2.26		ppb v/v		113	60 - 140
Methylene Chloride	2.00	2.20		ppb v/v		110	70 - 130
m-Xylene & p-Xylene	4.00	4.65		ppb v/v		116	70 - 130
Naphthalene	2.00	2.05		ppb v/v		102	40 - 140
o-Xylene	2.00	2.36		ppb v/v		118	70 - 130
Propene	2.00	2.03		ppb v/v		101	60 - 140
Styrene	2.00	2.40		ppb v/v		120	70 - 130
Tetrachloroethene	2.00	2.19		ppb v/v		110	70 - 130
Tetrahydrofuran	2.00	2.20		ppb v/v		110	60 - 140
Thiophene	2.00	2.11		ppb v/v		105	20 - 180
Toluene	2.00	2.29		ppb v/v		114	70 - 130
trans-1,2-Dichloroethene	2.00	1.96		ppb v/v		98	70 - 130
trans-1,3-Dichloropropene	2.00	2.25		ppb v/v		113	70 - 130
Trichloroethene	2.00	2.21		ppb v/v		111	70 - 130
Trichlorofluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Vinyl chloride	2.00	2.05		ppb v/v		102	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.1		ug/m3		102	70 - 130
1,1,2,2-Tetrachloroethane	14	16.2		ug/m3		118	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.9		ug/m3		117	70 - 130
1,1,2-Trichloroethane	11	11.9		ug/m3		109	70 - 130
1,1-Dichloroethane	8.1	8.29		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	9.39		ug/m3		118	70 - 130
1,2,4-Trichlorobenzene	15	15.0		ug/m3		101	60 - 140
1,2,4-Trimethylbenzene	9.8	11.7		ug/m3		119	70 - 130
1,2-Dibromoethane (EDB)	15	16.9		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	15.6		ug/m3		112	60 - 140
1,2-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,2-Dichloroethane	8.1	8.49		ug/m3		105	70 - 130
1,2-Dichloropropane	9.2	9.59		ug/m3		104	70 - 130
1,3,5-Trimethylbenzene	9.8	11.7		ug/m3		118	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dioxane	7.2	7.71		ug/m3		107	60 - 140
2,2,4-Trimethylpentane	9.3	9.97		ug/m3		107	70 - 130
2,3-Dimethylpentane	8.2	8.60		ug/m3		105	20 - 180
2-Butanone (MEK)	5.9	6.33		ug/m3		107	60 - 140
2-Hexanone	8.2	9.30		ug/m3		113	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.87		ug/m3		97	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002

Matrix: Air

Analysis Batch: 976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	12.0		ug/m3		122	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	9.15		ug/m3		112	60 - 140
Acetone	4.8	3.37	J	ug/m3		71	60 - 140
Benzene	6.4	6.45		ug/m3		101	70 - 130
Benzyl chloride	10	11.4		ug/m3		110	70 - 130
Bromodichloromethane	13	14.7		ug/m3		110	70 - 130
Bromoform	21	22.5		ug/m3		109	60 - 140
Bromomethane	7.8	7.66		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.43		ug/m3		103	70 - 130
Carbon tetrachloride	13	13.5		ug/m3		108	70 - 130
Chlorobenzene	9.2	9.77		ug/m3		106	70 - 130
Chloroethane	5.3	5.11		ug/m3		97	70 - 130
Chloroform	9.8	10.0		ug/m3		102	70 - 130
Chloromethane	4.1	4.23		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	8.52		ug/m3		107	70 - 130
cis-1,3-Dichloropropene	9.1	9.39		ug/m3		103	70 - 130
Cyclohexane	6.9	7.43		ug/m3		108	70 - 130
Dibromochloromethane	17	18.6		ug/m3		109	70 - 130
Dichlorodifluoromethane	9.9	10.7		ug/m3		108	60 - 140
Ethanol	19	20.0		ug/m3		106	20 - 180
Ethylbenzene	8.7	10.5		ug/m3		121	70 - 130
Heptane	8.2	8.86		ug/m3		108	70 - 130
Hexachlorobutadiene	21	19.3		ug/m3		91	60 - 140
Hexane	7.1	6.48		ug/m3		92	70 - 130
Indane	9.7	11.4		ug/m3		118	20 - 180
Indene	9.5	11.5		ug/m3		121	20 - 180
Isopropyl alcohol	4.9	4.90		ug/m3		100	60 - 140
Methyl tert-butyl ether	7.2	8.15		ug/m3		113	60 - 140
Methylene Chloride	7.0	7.64		ug/m3		110	70 - 130
m-Xylene & p-Xylene	17	20.2		ug/m3		116	70 - 130
Naphthalene	10	10.7		ug/m3		102	40 - 140
o-Xylene	8.7	10.2		ug/m3		118	70 - 130
Propene	3.4	3.49		ug/m3		101	60 - 140
Styrene	8.5	10.2		ug/m3		120	70 - 130
Tetrachloroethene	14	14.9		ug/m3		110	70 - 130
Tetrahydrofuran	5.9	6.50		ug/m3		110	60 - 140
Thiophene	6.9	7.25		ug/m3		105	20 - 180
Toluene	7.5	8.62		ug/m3		114	70 - 130
trans-1,2-Dichloroethene	7.9	7.79		ug/m3		98	70 - 130
trans-1,3-Dichloropropene	9.1	10.2		ug/m3		113	70 - 130
Trichloroethene	11	11.9		ug/m3		111	70 - 130
Trichlorofluoromethane	11	11.8		ug/m3		105	60 - 140
Vinyl chloride	5.1	5.23		ug/m3		102	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		60 - 140

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5

Matrix: Air

Analysis Batch: 984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 14:39	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 14:39	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 14:39	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/21/14 14:39	1
Acetone	ND		5.0	1.4	ppb v/v			03/21/14 14:39	1
Benzene	ND		0.20	0.056	ppb v/v			03/21/14 14:39	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 14:39	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 14:39	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 14:39	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 14:39	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 14:39	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Ethanol	ND		2.0	2.0	ppb v/v			03/21/14 14:39	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 14:39	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 14:39	1
Hexane	ND		0.50	0.032	ppb v/v			03/21/14 14:39	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5

Matrix: Air

Analysis Batch: 984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 14:39	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/21/14 14:39	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 14:39	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 14:39	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
Propene	ND		0.50	0.077	ppb v/v			03/21/14 14:39	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 14:39	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/21/14 14:39	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 14:39	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Toluene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 14:39	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/21/14 14:39	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 14:39	1
Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 14:39	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 14:39	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 14:39	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 14:39	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 14:39	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/21/14 14:39	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 14:39	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/21/14 14:39	1
Acetone	ND		12	3.3	ug/m3			03/21/14 14:39	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5

Matrix: Air

Analysis Batch: 984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/21/14 14:39	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 14:39	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 14:39	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 14:39	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 14:39	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 14:39	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/21/14 14:39	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 14:39	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 14:39	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 14:39	1
Chloromethane	ND		1.0	0.33	ug/m3			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 14:39	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 14:39	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/21/14 14:39	1
Ethanol	ND		3.8	3.8	ug/m3			03/21/14 14:39	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/21/14 14:39	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 14:39	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 14:39	1
Hexane	ND		1.8	0.11	ug/m3			03/21/14 14:39	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 14:39	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 14:39	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/21/14 14:39	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 14:39	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/21/14 14:39	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 14:39	1
o-Xylene	ND		0.87	0.26	ug/m3			03/21/14 14:39	1
Propene	ND		0.86	0.13	ug/m3			03/21/14 14:39	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 14:39	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/21/14 14:39	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 14:39	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 14:39	1
Toluene	ND		0.75	0.45	ug/m3			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 14:39	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 14:39	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/21/14 14:39	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 14:39	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140					03/21/14 14:39	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.68		ppb v/v		84	70 - 130
1,1-Dichloroethane	2.00	1.83		ppb v/v		91	70 - 130
1,1-Dichloroethene	2.00	2.30		ppb v/v		115	70 - 130
1,2,4-Trichlorobenzene	2.00	1.52		ppb v/v		76	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18		ppb v/v		109	60 - 140
1,2-Dichlorobenzene	2.00	1.51		ppb v/v		76	70 - 130
1,2-Dichloroethane	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloropropane	2.00	1.66		ppb v/v		83	70 - 130
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		85	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	1.49		ppb v/v		74	70 - 130
1,4-Dichlorobenzene	2.00	1.47		ppb v/v		73	70 - 130
1,4-Dioxane	2.00	1.58		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.70		ppb v/v		85	70 - 130
2,3-Dimethylpentane	2.00	1.69		ppb v/v		84	20 - 180
2-Butanone (MEK)	2.00	1.71		ppb v/v		85	60 - 140
2-Hexanone	2.00	1.75		ppb v/v		88	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.89		ppb v/v		95	20 - 180
4-Ethyltoluene	2.00	1.75		ppb v/v		87	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.74		ppb v/v		87	60 - 140
Acetone	2.00	1.05	J *	ppb v/v		53	60 - 140
Benzene	2.00	1.76		ppb v/v		88	70 - 130
Benzyl chloride	2.00	1.59		ppb v/v		80	70 - 130
Bromodichloromethane	2.00	1.73		ppb v/v		86	70 - 130
Bromoform	2.00	1.62		ppb v/v		81	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.05		ppb v/v		102	70 - 130
Carbon tetrachloride	2.00	1.79		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.64		ppb v/v		82	70 - 130
Chloroethane	2.00	1.98		ppb v/v		99	70 - 130
Chloroform	2.00	1.79		ppb v/v		90	70 - 130
Chloromethane	2.00	2.04		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.89		ppb v/v		94	70 - 130
cis-1,3-Dichloropropene	2.00	1.65		ppb v/v		83	70 - 130
Cyclohexane	2.00	1.85		ppb v/v		92	70 - 130
Dibromochloromethane	2.00	1.74		ppb v/v		87	70 - 130
Dichlorodifluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Ethanol	10.0	9.32		ppb v/v		93	20 - 180
Ethylbenzene	2.00	1.70		ppb v/v		85	70 - 130
Heptane	2.00	1.69		ppb v/v		84	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Hexachlorobutadiene	2.00	1.43		ppb v/v		72	60 - 140
Hexane	2.00	1.70		ppb v/v		85	70 - 130
Indane	2.00	1.70		ppb v/v		85	20 - 180
Indene	2.00	1.75		ppb v/v		87	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.83		ppb v/v		91	60 - 140
Methylene Chloride	2.00	2.13		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	3.28		ppb v/v		82	70 - 130
Naphthalene	2.00	1.50		ppb v/v		75	40 - 140
o-Xylene	2.00	1.67		ppb v/v		83	70 - 130
Propene	2.00	1.93		ppb v/v		97	60 - 140
Styrene	2.00	1.64		ppb v/v		82	70 - 130
Tetrachloroethene	2.00	1.70		ppb v/v		85	70 - 130
Tetrahydrofuran	2.00	1.73		ppb v/v		87	60 - 140
Thiophene	2.00	1.72		ppb v/v		86	20 - 180
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	1.70		ppb v/v		85	70 - 130
Trichloroethene	2.00	1.78		ppb v/v		89	70 - 130
Trichlorofluoromethane	2.00	2.06		ppb v/v		103	60 - 140
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	11	9.91		ug/m3		91	70 - 130
1,1,2,2-Tetrachloroethane	14	11.9		ug/m3		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.18		ug/m3		84	70 - 130
1,1-Dichloroethane	8.1	7.40		ug/m3		91	70 - 130
1,1-Dichloroethene	7.9	9.13		ug/m3		115	70 - 130
1,2,4-Trichlorobenzene	15	11.3		ug/m3		76	60 - 140
1,2,4-Trimethylbenzene	9.8	8.45		ug/m3		86	70 - 130
1,2-Dibromoethane (EDB)	15	13.0		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	15.3		ug/m3		109	60 - 140
1,2-Dichlorobenzene	12	9.11		ug/m3		76	70 - 130
1,2-Dichloroethane	8.1	7.42		ug/m3		92	70 - 130
1,2-Dichloropropane	9.2	7.69		ug/m3		83	70 - 130
1,3,5-Trimethylbenzene	9.8	8.33		ug/m3		85	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	8.94		ug/m3		74	70 - 130
1,4-Dichlorobenzene	12	8.83		ug/m3		73	70 - 130
1,4-Dioxane	7.2	5.70		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	7.93		ug/m3		85	70 - 130
2,3-Dimethylpentane	8.2	6.92		ug/m3		84	20 - 180
2-Butanone (MEK)	5.9	5.03		ug/m3		85	60 - 140
2-Hexanone	8.2	7.18		ug/m3		88	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.67		ug/m3		95	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier			Limits	
4-Ethyltoluene	9.8	8.58		ug/m3		87	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.11		ug/m3		87	60 - 140
Acetone	4.8	2.50	J *	ug/m3		53	60 - 140
Benzene	6.4	5.61		ug/m3		88	70 - 130
Benzyl chloride	10	8.24		ug/m3		80	70 - 130
Bromodichloromethane	13	11.6		ug/m3		86	70 - 130
Bromoform	21	16.8		ug/m3		81	60 - 140
Bromomethane	7.8	7.71		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.38		ug/m3		102	70 - 130
Carbon tetrachloride	13	11.3		ug/m3		89	70 - 130
Chlorobenzene	9.2	7.53		ug/m3		82	70 - 130
Chloroethane	5.3	5.23		ug/m3		99	70 - 130
Chloroform	9.8	8.75		ug/m3		90	70 - 130
Chloromethane	4.1	4.20		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.50		ug/m3		94	70 - 130
cis-1,3-Dichloropropene	9.1	7.51		ug/m3		83	70 - 130
Cyclohexane	6.9	6.36		ug/m3		92	70 - 130
Dibromochloromethane	17	14.8		ug/m3		87	70 - 130
Dichlorodifluoromethane	9.9	10.4		ug/m3		105	60 - 140
Ethanol	19	17.6		ug/m3		93	20 - 180
Ethylbenzene	8.7	7.39		ug/m3		85	70 - 130
Heptane	8.2	6.91		ug/m3		84	70 - 130
Hexachlorobutadiene	21	15.3		ug/m3		72	60 - 140
Hexane	7.1	5.98		ug/m3		85	70 - 130
Indane	9.7	8.22		ug/m3		85	20 - 180
Indene	9.5	8.29		ug/m3		87	20 - 180
Isopropyl alcohol	4.9	4.46		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.58		ug/m3		91	60 - 140
Methylene Chloride	7.0	7.41		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	14.3		ug/m3		82	70 - 130
Naphthalene	10	7.85		ug/m3		75	40 - 140
o-Xylene	8.7	7.25		ug/m3		83	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	6.97		ug/m3		82	70 - 130
Tetrachloroethene	14	11.5		ug/m3		85	70 - 130
Tetrahydrofuran	5.9	5.11		ug/m3		87	60 - 140
Thiophene	6.9	5.93		ug/m3		86	20 - 180
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	7.54		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	7.73		ug/m3		85	70 - 130
Trichloroethene	11	9.55		ug/m3		89	70 - 130
Trichlorofluoromethane	11	11.6		ug/m3		103	60 - 140
Vinyl chloride	5.1	5.26		ug/m3		103	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		60 - 140

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005

Matrix: Air

Analysis Batch: 990

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/24/14 11:45	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/24/14 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/24/14 11:45	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/24/14 11:45	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/24/14 11:45	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/24/14 11:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/24/14 11:45	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/24/14 11:45	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/24/14 11:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/24/14 11:45	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/24/14 11:45	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/24/14 11:45	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/24/14 11:45	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/24/14 11:45	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/24/14 11:45	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/24/14 11:45	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/24/14 11:45	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/24/14 11:45	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/24/14 11:45	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/24/14 11:45	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/24/14 11:45	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/24/14 11:45	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/24/14 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/24/14 11:45	1
Acetone	ND		5.0	1.4	ppb v/v			03/24/14 11:45	1
Benzene	ND		0.20	0.056	ppb v/v			03/24/14 11:45	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/24/14 11:45	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/24/14 11:45	1
Bromoform	ND		0.20	0.048	ppb v/v			03/24/14 11:45	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/24/14 11:45	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/24/14 11:45	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/24/14 11:45	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/24/14 11:45	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/24/14 11:45	1
Chloroform	ND		0.20	0.038	ppb v/v			03/24/14 11:45	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/24/14 11:45	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/24/14 11:45	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/24/14 11:45	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/24/14 11:45	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/24/14 11:45	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/24/14 11:45	1
Ethanol	ND		2.0	2.0	ppb v/v			03/24/14 11:45	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/24/14 11:45	1
Heptane	ND		0.50	0.047	ppb v/v			03/24/14 11:45	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/24/14 11:45	1
Hexane	ND		0.50	0.032	ppb v/v			03/24/14 11:45	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005

Matrix: Air

Analysis Batch: 990

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
Indene	ND		0.40	0.40	ppb v/v			03/24/14 11:45	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/24/14 11:45	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/24/14 11:45	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/24/14 11:45	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/24/14 11:45	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/24/14 11:45	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/24/14 11:45	1
Propene	ND		0.50	0.077	ppb v/v			03/24/14 11:45	1
Styrene	ND		0.20	0.058	ppb v/v			03/24/14 11:45	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/24/14 11:45	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/24/14 11:45	1
Thiophene	ND		0.20	0.20	ppb v/v			03/24/14 11:45	1
Toluene	ND		0.20	0.12	ppb v/v			03/24/14 11:45	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/24/14 11:45	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/24/14 11:45	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/24/14 11:45	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/24/14 11:45	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/24/14 11:45	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/24/14 11:45	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/24/14 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/24/14 11:45	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/24/14 11:45	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/24/14 11:45	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/24/14 11:45	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/24/14 11:45	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/24/14 11:45	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/24/14 11:45	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/24/14 11:45	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/24/14 11:45	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/24/14 11:45	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/24/14 11:45	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/24/14 11:45	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/24/14 11:45	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/24/14 11:45	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/24/14 11:45	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/24/14 11:45	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/24/14 11:45	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/24/14 11:45	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/24/14 11:45	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/24/14 11:45	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/24/14 11:45	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/24/14 11:45	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/24/14 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/24/14 11:45	1
Acetone	ND		12	3.3	ug/m3			03/24/14 11:45	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-990/1005

Matrix: Air

Analysis Batch: 990

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/24/14 11:45	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/24/14 11:45	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/24/14 11:45	1
Bromoform	ND		2.1	0.50	ug/m3			03/24/14 11:45	1
Bromomethane	ND		0.78	0.12	ug/m3			03/24/14 11:45	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/24/14 11:45	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/24/14 11:45	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/24/14 11:45	1
Chloroethane	ND		0.53	0.092	ug/m3			03/24/14 11:45	1
Chloroform	ND		0.98	0.19	ug/m3			03/24/14 11:45	1
Chloromethane	ND		1.0	0.33	ug/m3			03/24/14 11:45	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/24/14 11:45	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/24/14 11:45	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/24/14 11:45	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/24/14 11:45	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/24/14 11:45	1
Ethanol	ND		3.8	3.8	ug/m3			03/24/14 11:45	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/24/14 11:45	1
Heptane	ND		2.0	0.19	ug/m3			03/24/14 11:45	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/24/14 11:45	1
Hexane	ND		1.8	0.11	ug/m3			03/24/14 11:45	1
Indane	ND		0.97	0.97	ug/m3			03/24/14 11:45	1
Indene	ND		1.9	1.9	ug/m3			03/24/14 11:45	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/24/14 11:45	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/24/14 11:45	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/24/14 11:45	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/24/14 11:45	1
Naphthalene	ND		2.6	0.47	ug/m3			03/24/14 11:45	1
o-Xylene	ND		0.87	0.26	ug/m3			03/24/14 11:45	1
Propene	ND		0.86	0.13	ug/m3			03/24/14 11:45	1
Styrene	ND		0.85	0.25	ug/m3			03/24/14 11:45	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/24/14 11:45	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/24/14 11:45	1
Thiophene	ND		0.69	0.69	ug/m3			03/24/14 11:45	1
Toluene	ND		0.75	0.45	ug/m3			03/24/14 11:45	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/24/14 11:45	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/24/14 11:45	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/24/14 11:45	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/24/14 11:45	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/24/14 11:45	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/24/14 11:45	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002

Matrix: Air

Analysis Batch: 990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.11		ppb v/v		105	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.19		ppb v/v		110	70 - 130
1,1,2-Trichloroethane	2.00	1.87		ppb v/v		94	70 - 130
1,1-Dichloroethane	2.00	1.73		ppb v/v		86	70 - 130
1,1-Dichloroethene	2.00	2.02		ppb v/v		101	70 - 130
1,2,4-Trichlorobenzene	2.00	2.49		ppb v/v		124	60 - 140
1,2,4-Trimethylbenzene	2.00	2.50		ppb v/v		125	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.59		ppb v/v		129	60 - 140
1,2-Dichlorobenzene	2.00	2.52		ppb v/v		126	70 - 130
1,2-Dichloroethane	2.00	1.93		ppb v/v		96	70 - 130
1,2-Dichloropropane	2.00	1.65		ppb v/v		82	70 - 130
1,3,5-Trimethylbenzene	2.00	2.33		ppb v/v		116	70 - 130
1,3-Butadiene	2.00	1.93		ppb v/v		97	60 - 140
1,3-Dichlorobenzene	2.00	2.50		ppb v/v		125	70 - 130
1,4-Dichlorobenzene	2.00	2.47		ppb v/v		123	70 - 130
1,4-Dioxane	2.00	1.49		ppb v/v		75	60 - 140
2,2,4-Trimethylpentane	2.00	1.42		ppb v/v		71	70 - 130
2,3-Dimethylpentane	2.00	1.63		ppb v/v		82	20 - 180
2-Butanone (MEK)	2.00	1.47		ppb v/v		73	60 - 140
2-Hexanone	2.00	1.41		ppb v/v		70	60 - 140
2-Methylbutane	2.00	1.88		ppb v/v		94	70 - 130
2-Methylpentane	2.00	1.24		ppb v/v		62	20 - 180
4-Ethyltoluene	2.00	2.31		ppb v/v		116	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.15	*	ppb v/v		58	60 - 140
Acetone	2.00	1.82	J	ppb v/v		91	60 - 140
Benzene	2.00	1.80		ppb v/v		90	70 - 130
Benzyl chloride	2.00	2.40		ppb v/v		120	70 - 130
Bromodichloromethane	2.00	1.99		ppb v/v		99	70 - 130
Bromoform	2.00	2.76		ppb v/v		138	60 - 140
Bromomethane	2.00	2.33		ppb v/v		116	70 - 130
Carbon disulfide	2.00	1.83		ppb v/v		91	70 - 130
Carbon tetrachloride	2.00	2.36		ppb v/v		118	70 - 130
Chlorobenzene	2.00	2.17		ppb v/v		109	70 - 130
Chloroethane	2.00	2.15		ppb v/v		107	70 - 130
Chloroform	2.00	1.95		ppb v/v		98	70 - 130
Chloromethane	2.00	1.78		ppb v/v		89	60 - 140
cis-1,2-Dichloroethene	2.00	1.82		ppb v/v		91	70 - 130
cis-1,3-Dichloropropene	2.00	1.87		ppb v/v		94	70 - 130
Cyclohexane	2.00	1.62		ppb v/v		81	70 - 130
Dibromochloromethane	2.00	2.34		ppb v/v		117	70 - 130
Dichlorodifluoromethane	2.00	2.25		ppb v/v		113	60 - 140
Ethanol	10.0	8.52		ppb v/v		85	20 - 180
Ethylbenzene	2.00	2.07		ppb v/v		104	70 - 130
Heptane	2.00	1.64		ppb v/v		82	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002

Matrix: Air

Analysis Batch: 990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Hexachlorobutadiene	2.00	2.94	*	ppb v/v		147	60 - 140
Hexane	2.00	1.45		ppb v/v		73	70 - 130
Indane	2.00	2.40		ppb v/v		120	20 - 180
Indene	2.00	2.51		ppb v/v		126	20 - 180
Isopropyl alcohol	2.00	1.79		ppb v/v		90	60 - 140
Methyl tert-butyl ether	2.00	1.99		ppb v/v		100	60 - 140
Methylene Chloride	2.00	1.92		ppb v/v		96	70 - 130
m-Xylene & p-Xylene	4.00	4.51		ppb v/v		113	70 - 130
Naphthalene	2.00	2.46		ppb v/v		123	40 - 140
o-Xylene	2.00	2.15		ppb v/v		107	70 - 130
Propene	2.00	1.34		ppb v/v		67	60 - 140
Styrene	2.00	2.31		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.03		ppb v/v		102	70 - 130
Tetrahydrofuran	2.00	1.23		ppb v/v		61	60 - 140
Thiophene	2.00	1.78		ppb v/v		89	20 - 180
Toluene	2.00	1.95		ppb v/v		98	70 - 130
trans-1,2-Dichloroethene	2.00	1.93		ppb v/v		96	70 - 130
trans-1,3-Dichloropropene	2.00	1.86		ppb v/v		93	70 - 130
Trichloroethene	2.00	1.91		ppb v/v		96	70 - 130
Trichlorofluoromethane	2.00	2.60		ppb v/v		130	60 - 140
Vinyl chloride	2.00	2.12		ppb v/v		106	70 - 130
Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	11	11.5		ug/m3		105	70 - 130
1,1,2,2-Tetrachloroethane	14	14.0		ug/m3		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	16.8		ug/m3		110	70 - 130
1,1,2-Trichloroethane	11	10.2		ug/m3		94	70 - 130
1,1-Dichloroethane	8.1	6.98		ug/m3		86	70 - 130
1,1-Dichloroethene	7.9	8.02		ug/m3		101	70 - 130
1,2,4-Trichlorobenzene	15	18.5		ug/m3		124	60 - 140
1,2,4-Trimethylbenzene	9.8	12.3		ug/m3		125	70 - 130
1,2-Dibromoethane (EDB)	15	15.8		ug/m3		103	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	18.1		ug/m3		129	60 - 140
1,2-Dichlorobenzene	12	15.2		ug/m3		126	70 - 130
1,2-Dichloroethane	8.1	7.81		ug/m3		96	70 - 130
1,2-Dichloropropane	9.2	7.61		ug/m3		82	70 - 130
1,3,5-Trimethylbenzene	9.8	11.4		ug/m3		116	70 - 130
1,3-Butadiene	4.4	4.27		ug/m3		97	60 - 140
1,3-Dichlorobenzene	12	15.0		ug/m3		125	70 - 130
1,4-Dichlorobenzene	12	14.8		ug/m3		123	70 - 130
1,4-Dioxane	7.2	5.38		ug/m3		75	60 - 140
2,2,4-Trimethylpentane	9.3	6.61		ug/m3		71	70 - 130
2,3-Dimethylpentane	8.2	6.69		ug/m3		82	20 - 180
2-Butanone (MEK)	5.9	4.33		ug/m3		73	60 - 140
2-Hexanone	8.2	5.76		ug/m3		70	60 - 140
2-Methylbutane	5.9	5.55		ug/m3		94	70 - 130
2-Methylpentane	7.0	4.36		ug/m3		62	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-990/1002

Matrix: Air

Analysis Batch: 990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
4-Ethyltoluene	9.8	11.4		ug/m3		116	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	4.71	*	ug/m3		58	60 - 140
Acetone	4.8	4.33	J	ug/m3		91	60 - 140
Benzene	6.4	5.77		ug/m3		90	70 - 130
Benzyl chloride	10	12.4		ug/m3		120	70 - 130
Bromodichloromethane	13	13.3		ug/m3		99	70 - 130
Bromoform	21	28.5		ug/m3		138	60 - 140
Bromomethane	7.8	9.04		ug/m3		116	70 - 130
Carbon disulfide	6.2	5.69		ug/m3		91	70 - 130
Carbon tetrachloride	13	14.8		ug/m3		118	70 - 130
Chlorobenzene	9.2	10.0		ug/m3		109	70 - 130
Chloroethane	5.3	5.67		ug/m3		107	70 - 130
Chloroform	9.8	9.54		ug/m3		98	70 - 130
Chloromethane	4.1	3.68		ug/m3		89	60 - 140
cis-1,2-Dichloroethene	7.9	7.21		ug/m3		91	70 - 130
cis-1,3-Dichloropropene	9.1	8.51		ug/m3		94	70 - 130
Cyclohexane	6.9	5.59		ug/m3		81	70 - 130
Dibromochloromethane	17	19.9		ug/m3		117	70 - 130
Dichlorodifluoromethane	9.9	11.1		ug/m3		113	60 - 140
Ethanol	19	16.0		ug/m3		85	20 - 180
Ethylbenzene	8.7	9.00		ug/m3		104	70 - 130
Heptane	8.2	6.70		ug/m3		82	70 - 130
Hexachlorobutadiene	21	31.3	*	ug/m3		147	60 - 140
Hexane	7.0	5.12		ug/m3		73	70 - 130
Indane	9.7	11.6		ug/m3		120	20 - 180
Indene	9.5	11.9		ug/m3		126	20 - 180
Isopropyl alcohol	4.9	4.40		ug/m3		90	60 - 140
Methyl tert-butyl ether	7.2	7.19		ug/m3		100	60 - 140
Methylene Chloride	6.9	6.68		ug/m3		96	70 - 130
m-Xylene & p-Xylene	17	19.6		ug/m3		113	70 - 130
Naphthalene	10	12.9		ug/m3		123	40 - 140
o-Xylene	8.7	9.32		ug/m3		107	70 - 130
Propene	3.4	2.30		ug/m3		67	60 - 140
Styrene	8.5	9.83		ug/m3		115	70 - 130
Tetrachloroethene	14	13.8		ug/m3		102	70 - 130
Tetrahydrofuran	5.9	3.61		ug/m3		61	60 - 140
Thiophene	6.9	6.13		ug/m3		89	20 - 180
Toluene	7.5	7.36		ug/m3		98	70 - 130
trans-1,2-Dichloroethene	7.9	7.65		ug/m3		96	70 - 130
trans-1,3-Dichloropropene	9.1	8.44		ug/m3		93	70 - 130
Trichloroethene	11	10.3		ug/m3		96	70 - 130
Trichlorofluoromethane	11	14.6		ug/m3		130	60 - 140
Vinyl chloride	5.1	5.42		ug/m3		106	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		60 - 140

QC Association Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Air - GC/MS VOA

Analysis Batch: 971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-2	IA5-E14	Total/NA	Air	TO-15	
140-1063-3	IA6-E14	Total/NA	Air	TO-15	
140-1063-4	IA7-E14	Total/NA	Air	TO-15	
140-1063-5	AMB-2	Total/NA	Air	TO-15	
140-1063-6	AMB-4	Total/NA	Air	TO-15	
140-1063-8	PCV-IA2-B7	Total/NA	Air	TO-15	
140-1063-9	PCV-IA3-B7	Total/NA	Air	TO-15	
140-1063-10	PCV-IA1-B11	Total/NA	Air	TO-15	
140-1063-11	PCV-IA2-B11	Total/NA	Air	TO-15	
140-1063-12	PCV-IA3-B11	Total/NA	Air	TO-15	
140-1063-13	IA1-E14	Total/NA	Air	TO-15	
140-1063-14	IA2-E14	Total/NA	Air	TO-15	
140-1063-15	IA3-E14	Total/NA	Air	TO-15	
140-1063-16	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-17	PCV-IA2-B5	Total/NA	Air	TO-15	
LCS 140-971/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-971/9	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-1	IA4-E14	Total/NA	Air	TO-15	
140-1063-16 - DL	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-19	AMB-1	Total/NA	Air	TO-15	
140-1063-20	AMB-3	Total/NA	Air	TO-15	
140-1063-21	IA1-E19	Total/NA	Air	TO-15	
140-1063-22	IA2-E19	Total/NA	Air	TO-15	
140-1063-23	IA1-E17	Total/NA	Air	TO-15	
140-1063-24	IA1FD-E17	Total/NA	Air	TO-15	
140-1063-25	IA2-E17	Total/NA	Air	TO-15	
LCS 140-976/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-976/1004	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-18	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-984/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-984/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-17 - DL	PCV-IA2-B5	Total/NA	Air	TO-15	
140-1063-18 - DL	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-990/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-990/1005	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Date Collected: 03/13/14 17:12

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.43	286 mL	500 mL	976	03/19/14 16:52	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA5-E14

Date Collected: 03/13/14 16:40

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/18/14 23:43	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA6-E14

Date Collected: 03/13/14 16:45

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 00:36	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA7-E14

Date Collected: 03/13/14 15:52

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 01:31	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: AMB-2

Date Collected: 03/13/14 16:48

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 02:25	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: AMB-4

Date Collected: 03/13/14 16:49

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 03:20	AFB	TAL KNX
Instrument ID: MJ										

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IA2-B7

Lab Sample ID: 140-1063-8

Date Collected: 03/12/14 16:00

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 04:13	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: PCV-IA3-B7

Lab Sample ID: 140-1063-9

Date Collected: 03/12/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 05:07	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: PCV-IA1-B11

Lab Sample ID: 140-1063-10

Date Collected: 03/12/14 16:34

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 06:01	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: PCV-IA2-B11

Lab Sample ID: 140-1063-11

Date Collected: 03/12/14 16:32

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 06:56	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: PCV-IA3-B11

Lab Sample ID: 140-1063-12

Date Collected: 03/12/14 16:30

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.64	328 mL	500 mL	971	03/19/14 07:51	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 08:44	AFB	TAL KNX
Instrument ID: MJ										

TestAmerica Knoxville

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/18/14 19:12	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1.84	368 mL	500 mL	971	03/18/14 20:05	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: PCV-IA1-B5

Lab Sample ID: 140-1063-16

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/18/14 21:00	AFB	TAL KNX
Instrument ID: MJ										
Total/NA	Analysis	TO-15	DL	1	11 mL	500 mL	976	03/20/14 07:15	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: PCV-IA2-B5

Lab Sample ID: 140-1063-17

Date Collected: 03/12/14 15:56

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	1	11 mL	500 mL	990	03/24/14 13:17	HMT	TAL KNX
Instrument ID: ME										
Total/NA	Analysis	TO-15		1	200 mL	500 mL	971	03/19/14 09:39	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	1	20 mL	500 mL	990	03/24/14 14:38	HMT	TAL KNX
Instrument ID: ME										
Total/NA	Analysis	TO-15		1	200 mL	500 mL	984	03/21/14 15:32	HMT	TAL KNX
Instrument ID: MJ										

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1

Date Collected: 03/13/14 16:25

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-19

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 19:31	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: AMB-3

Date Collected: 03/13/14 17:06

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-20

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 20:25	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA1-E19

Date Collected: 03/13/14 16:18

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-21

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 21:18	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA2-E19

Date Collected: 03/13/14 17:05

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-22

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 22:12	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA1-E17

Date Collected: 03/13/14 15:17

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-23

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/19/14 23:06	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: IA1FD-E17

Date Collected: 03/13/14 16:45

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-24

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 00:01	AFB	TAL KNX
Instrument ID: MJ										

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17

Date Collected: 03/13/14 16:10

Date Received: 03/17/14 11:15

Lab Sample ID: 140-1063-25

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 01:49	AFB	TAL KNX

Instrument ID: MJ

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1063-1	IA4-E14	Air	03/13/14 17:12	03/17/14 11:15
140-1063-2	IA5-E14	Air	03/13/14 16:40	03/17/14 11:15
140-1063-3	IA6-E14	Air	03/13/14 16:45	03/17/14 11:15
140-1063-4	IA7-E14	Air	03/13/14 15:52	03/17/14 11:15
140-1063-5	AMB-2	Air	03/13/14 16:48	03/17/14 11:15
140-1063-6	AMB-4	Air	03/13/14 16:49	03/17/14 11:15
140-1063-8	PCV-IA2-B7	Air	03/12/14 16:00	03/17/14 11:15
140-1063-9	PCV-IA3-B7	Air	03/12/14 16:10	03/17/14 11:15
140-1063-10	PCV-IA1-B11	Air	03/12/14 16:34	03/17/14 11:15
140-1063-11	PCV-IA2-B11	Air	03/12/14 16:32	03/17/14 11:15
140-1063-12	PCV-IA3-B11	Air	03/12/14 16:30	03/17/14 11:15
140-1063-13	IA1-E14	Air	03/13/14 16:04	03/17/14 11:15
140-1063-14	IA2-E14	Air	03/13/14 16:53	03/17/14 11:15
140-1063-15	IA3-E14	Air	03/13/14 16:52	03/17/14 11:15
140-1063-16	PCV-IA1-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-17	PCV-IA2-B5	Air	03/12/14 15:56	03/17/14 11:15
140-1063-18	PCV-IAPC-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-19	AMB-1	Air	03/13/14 16:25	03/17/14 11:15
140-1063-20	AMB-3	Air	03/13/14 17:06	03/17/14 11:15
140-1063-21	IA1-E19	Air	03/13/14 16:18	03/17/14 11:15
140-1063-22	IA2-E19	Air	03/13/14 17:05	03/17/14 11:15
140-1063-23	IA1-E17	Air	03/13/14 15:17	03/17/14 11:15
140-1063-24	IA1FD-E17	Air	03/13/14 16:45	03/17/14 11:15
140-1063-25	IA2-E17	Air	03/13/14 16:10	03/17/14 11:15

Method T015

Volatile Organic Compounds (GC/MS)
by Method T015

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville

Job No.: 140-1063-1

SDG No.: _____

Matrix: Air

Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
IA4-E14	140-1063-1	91
IA5-E14	140-1063-2	94
IA6-E14	140-1063-3	95
IA7-E14	140-1063-4	92
AMB-2	140-1063-5	90
AMB-4	140-1063-6	90
PCV-IA2-B7	140-1063-8	99
PCV-IA3-B7	140-1063-9	95
PCV-IA1-B11	140-1063-10	94
PCV-IA2-B11	140-1063-11	96
PCV-IA3-B11	140-1063-12	99
IA1-E14	140-1063-13	98
IA2-E14	140-1063-14	97
IA3-E14	140-1063-15	95
PCV-IA1-B5	140-1063-16	96
PCV-IA1-B5 DL	140-1063-16 DL	88
PCV-IA2-B5	140-1063-17	97
PCV-IA2-B5 DL	140-1063-17 DL	83
PCV-IAPC-B5	140-1063-18	96
PCV-IAPC-B5 DL	140-1063-18 DL	87
AMB-1	140-1063-19	92
AMB-3	140-1063-20	91
IA1-E19	140-1063-21	95
IA2-E19	140-1063-22	94
IA1-E17	140-1063-23	94
IA1FD-E17	140-1063-24	96
IA2-E17	140-1063-25	95
	MB 140-971/9	98
	MB 140-976/1004	93
	MB 140-984/5	93
	MB 140-990/1005	96
	LCS 140-971/1002	99
	LCS 140-976/1002	98
	LCS 140-984/1002	100
	LCS 140-990/1002	104

BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
60-140

Column to be used to flag recovery values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC18-LCS.d
 Lab ID: LCS 140-971/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.99	100	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.21	110	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24	112	70-130	
1,1,2-Trichloroethane	2.00	2.08	104	70-130	
1,1-Dichloroethane	2.00	1.99	100	70-130	
1,1-Dichloroethene	2.00	2.29	114	70-130	
1,2,4-Trichlorobenzene	2.00	1.92	96	60-140	
1,2,4-Trimethylbenzene	2.00	2.20	110	70-130	
1,2-Dibromoethane (EDB)	2.00	2.08	104	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.13	106	60-140	
1,2-Dichlorobenzene	2.00	1.97	98	70-130	
1,2-Dichloroethane	2.00	2.18	109	70-130	
1,2-Dichloropropane	2.00	1.99	100	70-130	
1,3,5-Trimethylbenzene	2.00	2.20	110	70-130	
1,3-Butadiene	2.00	2.05	102	60-140	
1,3-Dichlorobenzene	2.00	1.95	97	70-130	
1,4-Dichlorobenzene	2.00	1.93	97	70-130	
1,4-Dioxane	2.00	1.97	99	60-140	
2,2,4-Trimethylpentane	2.00	2.08	104	70-130	
2,3-Dimethylpentane	2.00	2.03	101	20-180	
2-Butanone (MEK)	2.00	1.96	98	60-140	
2-Hexanone	2.00	2.10	105	60-140	
2-Methylbutane	2.00	1.91	96	70-130	
2-Methylpentane	2.00	1.86	93	20-180	
4-Ethyltoluene	2.00	2.25	112	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	2.02	101	60-140	
Acetone	2.00	1.26 J	63	60-140	
Benzene	2.00	2.08	104	70-130	
Benzyl chloride	2.00	2.09	104	70-130	
Bromodichloromethane	2.00	2.18	109	70-130	
Bromoform	2.00	2.07	103	60-140	
Bromomethane	2.00	1.92	96	70-130	
Carbon disulfide	2.00	2.01	100	70-130	
Carbon tetrachloride	2.00	2.13	106	70-130	
Chlorobenzene	2.00	2.03	102	70-130	
Chloroethane	2.00	1.93	97	70-130	
Chloroform	2.00	2.02	101	70-130	
Chloromethane	2.00	1.97	98	60-140	
cis-1,2-Dichloroethene	2.00	2.08	104	70-130	
cis-1,3-Dichloropropene	2.00	1.98	99	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC18-LCS.d
 Lab ID: LCS 140-971/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	2.07	103	70-130	
Dibromochloromethane	2.00	2.20	110	70-130	
Dichlorodifluoromethane	2.00	2.05	103	60-140	
Ethanol	10.0	9.88	99	20-180	
Ethylbenzene	2.00	2.22	111	70-130	
Heptane	2.00	2.11	105	70-130	
Hexachlorobutadiene	2.00	1.71	85	60-140	
Hexane	2.00	1.78	89	70-130	
Indane	2.00	2.20	110	20-180	
Indene	2.00	2.28	114	20-180	
Isopropyl alcohol	2.00	1.89	94	60-140	
Methyl tert-butyl ether	2.00	2.09	104	60-140	
Methylene Chloride	2.00	2.12	106	70-130	
m-Xylene & p-Xylene	4.00	4.28	107	70-130	
Naphthalene	2.00	1.93	96	40-140	
o-Xylene	2.00	2.19	110	70-130	
Propene	2.00	1.90	95	60-140	
Styrene	2.00	2.29	115	70-130	
Tetrachloroethene	2.00	2.17	109	70-130	
Tetrahydrofuran	2.00	2.01	100	60-140	
Thiophene	2.00	2.13	106	20-180	
Toluene	2.00	2.16	108	70-130	
trans-1,2-Dichloroethene	2.00	1.88	94	70-130	
trans-1,3-Dichloropropene	2.00	2.12	106	70-130	
Trichloroethene	2.00	2.14	107	70-130	
Trichlorofluoromethane	2.00	2.03	101	60-140	
Vinyl chloride	2.00	1.99	99	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC19-LCS.d
 Lab ID: LCS 140-976/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.04	102	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.36	118	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.34	117	70-130	
1,1,2-Trichloroethane	2.00	2.19	109	70-130	
1,1-Dichloroethane	2.00	2.05	102	70-130	
1,1-Dichloroethene	2.00	2.37	118	70-130	
1,2,4-Trichlorobenzene	2.00	2.03	101	60-140	
1,2,4-Trimethylbenzene	2.00	2.38	119	70-130	
1,2-Dibromoethane (EDB)	2.00	2.20	110	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.23	112	60-140	
1,2-Dichlorobenzene	2.00	2.08	104	70-130	
1,2-Dichloroethane	2.00	2.10	105	70-130	
1,2-Dichloropropane	2.00	2.08	104	70-130	
1,3,5-Trimethylbenzene	2.00	2.37	118	70-130	
1,3-Butadiene	2.00	2.09	105	60-140	
1,3-Dichlorobenzene	2.00	2.08	104	70-130	
1,4-Dichlorobenzene	2.00	2.07	104	70-130	
1,4-Dioxane	2.00	2.14	107	60-140	
2,2,4-Trimethylpentane	2.00	2.13	107	70-130	
2,3-Dimethylpentane	2.00	2.10	105	20-180	
2-Butanone (MEK)	2.00	2.15	107	60-140	
2-Hexanone	2.00	2.27	113	60-140	
2-Methylbutane	2.00	1.98	99	70-130	
2-Methylpentane	2.00	1.95	97	20-180	
4-Ethyltoluene	2.00	2.43	122	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	2.23	112	60-140	
Acetone	2.00	1.42 J	71	60-140	
Benzene	2.00	2.02	101	70-130	
Benzyl chloride	2.00	2.19	110	70-130	
Bromodichloromethane	2.00	2.20	110	70-130	
Bromoform	2.00	2.18	109	60-140	
Bromomethane	2.00	1.97	99	70-130	
Carbon disulfide	2.00	2.06	103	70-130	
Carbon tetrachloride	2.00	2.15	108	70-130	
Chlorobenzene	2.00	2.12	106	70-130	
Chloroethane	2.00	1.94	97	70-130	
Chloroform	2.00	2.05	102	70-130	
Chloromethane	2.00	2.05	102	60-140	
cis-1,2-Dichloroethene	2.00	2.15	107	70-130	
cis-1,3-Dichloropropene	2.00	2.07	103	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC19-LCS.d
 Lab ID: LCS 140-976/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	2.16	108	70-130	
Dibromochloromethane	2.00	2.18	109	70-130	
Dichlorodifluoromethane	2.00	2.16	108	60-140	
Ethanol	10.0	10.6	106	20-180	
Ethylbenzene	2.00	2.41	121	70-130	
Heptane	2.00	2.16	108	70-130	
Hexachlorobutadiene	2.00	1.81	91	60-140	
Hexane	2.00	1.84	92	70-130	
Indane	2.00	2.35	118	20-180	
Indene	2.00	2.42	121	20-180	
Isopropyl alcohol	2.00	1.99	100	60-140	
Methyl tert-butyl ether	2.00	2.26	113	60-140	
Methylene Chloride	2.00	2.20	110	70-130	
m-Xylene & p-Xylene	4.00	4.65	116	70-130	
Naphthalene	2.00	2.05	102	40-140	
o-Xylene	2.00	2.36	118	70-130	
Propene	2.00	2.03	101	60-140	
Styrene	2.00	2.40	120	70-130	
Tetrachloroethene	2.00	2.19	110	70-130	
Tetrahydrofuran	2.00	2.20	110	60-140	
Thiophene	2.00	2.11	105	20-180	
Toluene	2.00	2.29	114	70-130	
trans-1,2-Dichloroethene	2.00	1.96	98	70-130	
trans-1,3-Dichloropropene	2.00	2.25	113	70-130	
Trichloroethene	2.00	2.21	111	70-130	
Trichlorofluoromethane	2.00	2.10	105	60-140	
Vinyl chloride	2.00	2.05	102	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d
 Lab ID: LCS 140-984/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.82	91	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.73	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26	113	70-130	
1,1,2-Trichloroethane	2.00	1.68	84	70-130	
1,1-Dichloroethane	2.00	1.83	91	70-130	
1,1-Dichloroethene	2.00	2.30	115	70-130	
1,2,4-Trichlorobenzene	2.00	1.52	76	60-140	
1,2,4-Trimethylbenzene	2.00	1.72	86	70-130	
1,2-Dibromoethane (EDB)	2.00	1.69	85	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18	109	60-140	
1,2-Dichlorobenzene	2.00	1.51	76	70-130	
1,2-Dichloroethane	2.00	1.83	92	70-130	
1,2-Dichloropropane	2.00	1.66	83	70-130	
1,3,5-Trimethylbenzene	2.00	1.69	85	70-130	
1,3-Butadiene	2.00	2.09	105	60-140	
1,3-Dichlorobenzene	2.00	1.49	74	70-130	
1,4-Dichlorobenzene	2.00	1.47	73	70-130	
1,4-Dioxane	2.00	1.58	79	60-140	
2,2,4-Trimethylpentane	2.00	1.70	85	70-130	
2,3-Dimethylpentane	2.00	1.69	84	20-180	
2-Butanone (MEK)	2.00	1.71	85	60-140	
2-Hexanone	2.00	1.75	88	60-140	
2-Methylbutane	2.00	1.98	99	70-130	
2-Methylpentane	2.00	1.89	95	20-180	
4-Ethyltoluene	2.00	1.75	87	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.74	87	60-140	
Acetone	2.00	1.05 J	53	60-140	*
Benzene	2.00	1.76	88	70-130	
Benzyl chloride	2.00	1.59	80	70-130	
Bromodichloromethane	2.00	1.73	86	70-130	
Bromoform	2.00	1.62	81	60-140	
Bromomethane	2.00	1.98	99	70-130	
Carbon disulfide	2.00	2.05	102	70-130	
Carbon tetrachloride	2.00	1.79	89	70-130	
Chlorobenzene	2.00	1.64	82	70-130	
Chloroethane	2.00	1.98	99	70-130	
Chloroform	2.00	1.79	90	70-130	
Chloromethane	2.00	2.04	102	60-140	
cis-1,2-Dichloroethene	2.00	1.89	94	70-130	
cis-1,3-Dichloropropene	2.00	1.65	83	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d
 Lab ID: LCS 140-984/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.85	92	70-130	
Dibromochloromethane	2.00	1.74	87	70-130	
Dichlorodifluoromethane	2.00	2.10	105	60-140	
Ethanol	10.0	9.32	93	20-180	
Ethylbenzene	2.00	1.70	85	70-130	
Heptane	2.00	1.69	84	70-130	
Hexachlorobutadiene	2.00	1.43	72	60-140	
Hexane	2.00	1.70	85	70-130	
Indane	2.00	1.70	85	20-180	
Indene	2.00	1.75	87	20-180	
Isopropyl alcohol	2.00	1.81	91	60-140	
Methyl tert-butyl ether	2.00	1.83	91	60-140	
Methylene Chloride	2.00	2.13	107	70-130	
m-Xylene & p-Xylene	4.00	3.28	82	70-130	
Naphthalene	2.00	1.50	75	40-140	
o-Xylene	2.00	1.67	83	70-130	
Propene	2.00	1.93	97	60-140	
Styrene	2.00	1.64	82	70-130	
Tetrachloroethene	2.00	1.70	85	70-130	
Tetrahydrofuran	2.00	1.73	87	60-140	
Thiophene	2.00	1.72	86	20-180	
Toluene	2.00	1.69	84	70-130	
trans-1,2-Dichloroethene	2.00	1.90	95	70-130	
trans-1,3-Dichloropropene	2.00	1.70	85	70-130	
Trichloroethene	2.00	1.78	89	70-130	
Trichlorofluoromethane	2.00	2.06	103	60-140	
Vinyl chloride	2.00	2.06	103	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: ECCVC24-LCS.d
 Lab ID: LCS 140-990/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.11	105	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.04	102	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.19	110	70-130	
1,1,2-Trichloroethane	2.00	1.87	94	70-130	
1,1-Dichloroethane	2.00	1.73	86	70-130	
1,1-Dichloroethene	2.00	2.02	101	70-130	
1,2,4-Trichlorobenzene	2.00	2.49	124	60-140	
1,2,4-Trimethylbenzene	2.00	2.50	125	70-130	
1,2-Dibromoethane (EDB)	2.00	2.06	103	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.59	129	60-140	
1,2-Dichlorobenzene	2.00	2.52	126	70-130	
1,2-Dichloroethane	2.00	1.93	96	70-130	
1,2-Dichloropropane	2.00	1.65	82	70-130	
1,3,5-Trimethylbenzene	2.00	2.33	116	70-130	
1,3-Butadiene	2.00	1.93	97	60-140	
1,3-Dichlorobenzene	2.00	2.50	125	70-130	
1,4-Dichlorobenzene	2.00	2.47	123	70-130	
1,4-Dioxane	2.00	1.49	75	60-140	
2,2,4-Trimethylpentane	2.00	1.42	71	70-130	
2,3-Dimethylpentane	2.00	1.63	82	20-180	
2-Butanone (MEK)	2.00	1.47	73	60-140	
2-Hexanone	2.00	1.41	70	60-140	
2-Methylbutane	2.00	1.88	94	70-130	
2-Methylpentane	2.00	1.24	62	20-180	
4-Ethyltoluene	2.00	2.31	116	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.15	58	60-140	*
Acetone	2.00	1.82 J	91	60-140	
Benzene	2.00	1.80	90	70-130	
Benzyl chloride	2.00	2.40	120	70-130	
Bromodichloromethane	2.00	1.99	99	70-130	
Bromoform	2.00	2.76	138	60-140	
Bromomethane	2.00	2.33	116	70-130	
Carbon disulfide	2.00	1.83	91	70-130	
Carbon tetrachloride	2.00	2.36	118	70-130	
Chlorobenzene	2.00	2.17	109	70-130	
Chloroethane	2.00	2.15	107	70-130	
Chloroform	2.00	1.95	98	70-130	
Chloromethane	2.00	1.78	89	60-140	
cis-1,2-Dichloroethene	2.00	1.82	91	70-130	
cis-1,3-Dichloropropene	2.00	1.87	94	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: ECCVC24-LCS.d
 Lab ID: LCS 140-990/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.62	81	70-130	
Dibromochloromethane	2.00	2.34	117	70-130	
Dichlorodifluoromethane	2.00	2.25	113	60-140	
Ethanol	10.0	8.52	85	20-180	
Ethylbenzene	2.00	2.07	104	70-130	
Heptane	2.00	1.64	82	70-130	
Hexachlorobutadiene	2.00	2.94	147	60-140	*
Hexane	2.00	1.45	73	70-130	
Indane	2.00	2.40	120	20-180	
Indene	2.00	2.51	126	20-180	
Isopropyl alcohol	2.00	1.79	90	60-140	
Methyl tert-butyl ether	2.00	1.99	100	60-140	
Methylene Chloride	2.00	1.92	96	70-130	
m-Xylene & p-Xylene	4.00	4.51	113	70-130	
Naphthalene	2.00	2.46	123	40-140	
o-Xylene	2.00	2.15	107	70-130	
Propene	2.00	1.34	67	60-140	
Styrene	2.00	2.31	115	70-130	
Tetrachloroethene	2.00	2.03	102	70-130	
Tetrahydrofuran	2.00	1.23	61	60-140	
Thiophene	2.00	1.78	89	20-180	
Toluene	2.00	1.95	98	70-130	
trans-1,2-Dichloroethene	2.00	1.93	96	70-130	
trans-1,3-Dichloropropene	2.00	1.86	93	70-130	
Trichloroethene	2.00	1.91	96	70-130	
Trichlorofluoromethane	2.00	2.60	130	60-140	
Vinyl chloride	2.00	2.12	106	70-130	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: 140-1086-a-9-MB.d Lab Sample ID: MB 140-990/1005
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: ME Date Analyzed: 03/24/2014 11:45
 GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-990/1002	ECCVC24-LCS .d	03/24/2014 09:15
PCV-IA2-B5 DL	140-1063-17 DL	EC24P104.D	03/24/2014 13:17
PCV-IAPC-B5 DL	140-1063-18 DL	EC24P105.D	03/24/2014 14:38

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: MB200mL.D Lab Sample ID: MB 140-971/9
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MJ Date Analyzed: 03/18/2014 16:42
 GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-971/1002	JCCVC18-LCS .d	03/18/2014 10:16
IA2-E14	140-1063-14	JC18P201.D	03/18/2014 19:12
IA3-E14	140-1063-15	JC18P202.D	03/18/2014 20:05
PCV-IA1-B5	140-1063-16	JC18P203.D	03/18/2014 21:00
IA5-E14	140-1063-2	JC18P205.D	03/18/2014 23:43
IA6-E14	140-1063-3	JC18P206.D	03/19/2014 00:36
IA7-E14	140-1063-4	JC18P207.D	03/19/2014 01:31
AMB-2	140-1063-5	JC18P208.D	03/19/2014 02:25
AMB-4	140-1063-6	JC18P209.D	03/19/2014 03:20
PCV-IA2-B7	140-1063-8	JC18P210.D	03/19/2014 04:13
PCV-IA3-B7	140-1063-9	JC18P211.D	03/19/2014 05:07
PCV-IA1-B11	140-1063-10	JC18P212.D	03/19/2014 06:01
PCV-IA2-B11	140-1063-11	JC18P213.D	03/19/2014 06:56
PCV-IA3-B11	140-1063-12	JC18P214.D	03/19/2014 07:51
IA1-E14	140-1063-13	JC18P215.D	03/19/2014 08:44
PCV-IA2-B5	140-1063-17	JC18P216.D	03/19/2014 09:39

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: 140-1071-a-10-MB.d Lab Sample ID: MB 140-976/1004
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MJ Date Analyzed: 03/19/2014 13:17
 GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-976/1002	JCCVC19-LCS .d	03/19/2014 11:06
IA4-E14	140-1063-1	JC19P102.D	03/19/2014 16:52
AMB-1	140-1063-19	JC19P104.D	03/19/2014 19:31
AMB-3	140-1063-20	JC19P105.D	03/19/2014 20:25
IA1-E19	140-1063-21	JC19P106.D	03/19/2014 21:18
IA2-E19	140-1063-22	JC19P107.D	03/19/2014 22:12
IA1-E17	140-1063-23	JC19P108.D	03/19/2014 23:06
IA1FD-E17	140-1063-24	JC19P109.D	03/20/2014 00:01
IA2-E17	140-1063-25	JC19P110.D	03/20/2014 01:49
PCV-IA1-B5 DL	140-1063-16 DL	JC19P101R.D	03/20/2014 07:15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
SDG No.: _____
Lab File ID: 200BLK.D Lab Sample ID: MB 140-984/5
Matrix: Air Heated Purge: (Y/N) N
Instrument ID: MJ Date Analyzed: 03/21/2014 14:39
GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PCV-IAPC-B5	140-1063-18	JC21P101.D	03/21/2014 15:32

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: EBFBA28.D BFB Injection Date: 01/28/2014
 Instrument ID: ME BFB Injection Time: 13:40
 Analysis Batch No.: 758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.8
75	30.0 - 60.0 % of mass 95	53.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.5 (0.7)1
174	50.0 - 120.00 % of mass 95	80.1
175	5.0 - 9.0 % of mass 174	6.0 (7.5)1
176	95.0 - 101.0 % of mass 174	77.9 (97.3)1
177	5.0 - 9.0 % of mass 176	5.3 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-758/2	EICVA281.D	01/28/2014	14:11
	IC 140-758/3	EICVA282.D	01/28/2014	14:57
	IC 140-758/4	EICVA283.D	01/28/2014	15:42
	IC 140-758/5	EICVA284.D	01/28/2014	16:27
	IC 140-758/6	EICVA285.D	01/28/2014	17:13
	ICIS 140-758/7	EICVA286.D	01/28/2014	18:10
	IC 140-758/8	EICVA287.D	01/28/2014	18:55
	IC 140-758/9	EICVA288.D	01/28/2014	19:40
	IC 140-758/10	EICVA289.D	01/28/2014	20:25
	ICV 140-758/14	ELCSA28.D	01/28/2014	23:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: EBFBC24.D BFB Injection Date: 03/24/2014
 Instrument ID: ME BFB Injection Time: 08:44
 Analysis Batch No.: 990

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.2
75	30.0 - 60.0 % of mass 95	51.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.7 (0.7)1
174	50.0 - 120.00 % of mass 95	98.3
175	5.0 - 9.0 % of mass 174	7.5 (7.7)1
176	95.0 - 101.0 % of mass 174	95.6 (97.3)1
177	5.0 - 9.0 % of mass 176	6.4 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-990/2	ECCVC24.D	03/24/2014	09:15
	LCS 140-990/1002	ECCVC24-LCS. d	03/24/2014	09:15
	MB 140-990/1005	140-1086-a-9 -MB.d	03/24/2014	11:45
PCV-IA2-B5 DL	140-1063-17 DL	EC24P104.D	03/24/2014	13:17
PCV-IAPC-B5 DL	140-1063-18 DL	EC24P105.D	03/24/2014	14:38

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: JBFB11.D BFB Injection Date: 03/11/2014
 Instrument ID: MJ BFB Injection Time: 12:12
 Analysis Batch No.: 946

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	41.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	111.2	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	108.1	(97.2)1
177	5.0 - 9.0 % of mass 176	7.2	(6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-946/2	JICC111.D	03/11/2014	12:40
	IC 140-946/3	JICC112.D	03/11/2014	13:35
	IC 140-946/4	JICC113.D	03/11/2014	14:29
	IC 140-946/5	JICC114.D	03/11/2014	15:23
	IC 140-946/6	JICC115.D	03/11/2014	16:17
	ICIS 140-946/7	JICC116.D	03/11/2014	17:11
	IC 140-946/8	JICC117.D	03/11/2014	18:06
	IC 140-946/9	JICC118.D	03/11/2014	19:02
	IC 140-946/10	JICC119.D	03/11/2014	19:57
	ICV 140-946/14	JLCS11.D	03/11/2014	23:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: JBFBC18.D BFB Injection Date: 03/18/2014
 Instrument ID: MJ BFB Injection Time: 09:48
 Analysis Batch No.: 971

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.8
75	30.0 - 60.0 % of mass 95	42.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	110.0
175	5.0 - 9.0 % of mass 174	8.4 (7.7)1
176	95.0 - 101.0 % of mass 174	107.9 (98.1)1
177	5.0 - 9.0 % of mass 176	7.2 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-971/2	JCCVC18.D	03/18/2014	10:16
	LCS 140-971/1002	JCCVC18-LCS. d	03/18/2014	10:16
	MB 140-971/9	MB200mL.D	03/18/2014	16:42
IA2-E14	140-1063-14	JC18P201.D	03/18/2014	19:12
IA3-E14	140-1063-15	JC18P202.D	03/18/2014	20:05
PCV-IA1-B5	140-1063-16	JC18P203.D	03/18/2014	21:00
IA5-E14	140-1063-2	JC18P205.D	03/18/2014	23:43
IA6-E14	140-1063-3	JC18P206.D	03/19/2014	00:36
IA7-E14	140-1063-4	JC18P207.D	03/19/2014	01:31
AMB-2	140-1063-5	JC18P208.D	03/19/2014	02:25
AMB-4	140-1063-6	JC18P209.D	03/19/2014	03:20
PCV-IA2-B7	140-1063-8	JC18P210.D	03/19/2014	04:13
PCV-IA3-B7	140-1063-9	JC18P211.D	03/19/2014	05:07
PCV-IA1-B11	140-1063-10	JC18P212.D	03/19/2014	06:01
PCV-IA2-B11	140-1063-11	JC18P213.D	03/19/2014	06:56
PCV-IA3-B11	140-1063-12	JC18P214.D	03/19/2014	07:51
IA1-E14	140-1063-13	JC18P215.D	03/19/2014	08:44
PCV-IA2-B5	140-1063-17	JC18P216.D	03/19/2014	09:39

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: JBFBC19.D BFB Injection Date: 03/19/2014
 Instrument ID: MJ BFB Injection Time: 10:38
 Analysis Batch No.: 976

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.1
75	30.0 - 60.0 % of mass 95	43.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	110.0
175	5.0 - 9.0 % of mass 174	8.5 (7.8)1
176	95.0 - 101.0 % of mass 174	107.8 (98.0)1
177	5.0 - 9.0 % of mass 176	7.2 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-976/2	JCCVC19.D	03/19/2014	11:06
	LCS 140-976/1002	JCCVC19-LCS.d	03/19/2014	11:06
	MB 140-976/1004	140-1071-a-10-MB.d	03/19/2014	13:17
IA4-E14	140-1063-1	JC19P102.D	03/19/2014	16:52
AMB-1	140-1063-19	JC19P104.D	03/19/2014	19:31
AMB-3	140-1063-20	JC19P105.D	03/19/2014	20:25
IA1-E19	140-1063-21	JC19P106.D	03/19/2014	21:18
IA2-E19	140-1063-22	JC19P107.D	03/19/2014	22:12
IA1-E17	140-1063-23	JC19P108.D	03/19/2014	23:06
IA1FD-E17	140-1063-24	JC19P109.D	03/20/2014	00:01
IA2-E17	140-1063-25	JC19P110.D	03/20/2014	01:49
PCV-IA1-B5 DL	140-1063-16 DL	JC19P101R.D	03/20/2014	07:15

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab File ID: JBFBC21.D BFB Injection Date: 03/21/2014
 Instrument ID: MJ BFB Injection Time: 11:03
 Analysis Batch No.: 984

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.4
75	30.0 - 60.0 % of mass 95	43.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	110.6
175	5.0 - 9.0 % of mass 174	8.5 (7.7)1
176	95.0 - 101.0 % of mass 174	107.7 (97.4)1
177	5.0 - 9.0 % of mass 176	7.2 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-984/2	JCCVC21.D	03/21/2014	11:30
	LCS 140-984/1002	JCCVC21-LCS. d	03/21/2014	11:30
	MB 140-984/5	200BLK.D	03/21/2014	14:39
PCV-IAPC-B5	140-1063-18	JC21P101.D	03/21/2014	15:32

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Sample No.: ICIS 140-758/7 Date Analyzed: 01/28/2014 18:10
 Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): EICVA286.D Heated Purge: (Y/N) N
 Calibration ID: 115

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	236087	8.35	1075088	10.59	950258	15.39
UPPER LIMIT	330522	8.68	1505123	10.92	1330361	15.72
LOWER LIMIT	141652	8.02	645053	10.26	570155	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-758/14	245031	8.36	1151017	10.59	1019752	15.39

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Sample No.: CCVIS 140-990/2 Date Analyzed: 03/24/2014 09:15
 Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): ECCVC24.D Heated Purge: (Y/N) N
 Calibration ID: 115

	CBM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	302319	8.34	1502722	10.57	1339330	15.38	
UPPER LIMIT	423247	8.67	2103811	10.90	1875062	15.71	
LOWER LIMIT	181391	8.01	901633	10.24	803598	15.05	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-990/1002	302319	8.34	1502722	10.57	1339330	15.38	
MB 140-990/1005	303416	8.33	1490673	10.57	1270564	15.38	
140-1063-17 DL	PCV-IA2-B5 DL	271813	8.33	1322864	10.56	1080071	15.38
140-1063-18 DL	PCV-IAFC-B5 DL	291453	8.33	1374784	10.57	1172758	15.38

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Sample No.: ICIS 140-946/7 Date Analyzed: 03/11/2014 17:11
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JICC116.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	351204	9.39	1664083	11.55	1450172	16.21
UPPER LIMIT	491686	9.72	2329716	11.88	2030241	16.54
LOWER LIMIT	210722	9.06	998450	11.22	870103	15.88
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-946/14	326764	9.39	1541489	11.55	1315171	16.21

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Sample No.: CCVIS 140-971/2 Date Analyzed: 03/18/2014 10:16
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC18.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	363327	9.39	1539618	11.54	1280996	16.20	
UPPER LIMIT	508658	9.72	2155465	11.87	1793394	16.53	
LOWER LIMIT	217996	9.06	923771	11.21	768598	15.87	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-971/1002	363327	9.39	1539618	11.54	1280996	16.20	
MB 140-971/9	377290	9.38	1683690	11.53	1364337	16.20	
140-1063-14	IA2-E14	356682	9.38	1658549	11.54	1401393	16.20
140-1063-15	IA3-E14	369929	9.38	1766504	11.54	1419898	16.20
140-1063-16	PCV-IA1-B5	342541	9.39	1565611	11.54	1280677	16.20
140-1063-2	IA5-E14	379483	9.38	1809160	11.54	1510580	16.20
140-1063-3	IA6-E14	378406	9.38	1803968	11.53	1499805	16.20
140-1063-4	IA7-E14	355969	9.38	1695531	11.53	1347420	16.20
140-1063-5	AMB-2	356136	9.38	1701568	11.53	1362505	16.20
140-1063-6	AMB-4	362335	9.38	1751097	11.54	1422550	16.20
140-1063-8	PCV-IA2-B7	345221	9.38	1647743	11.53	1373616	16.20
140-1063-9	PCV-IA3-B7	344401	9.38	1626086	11.54	1289345	16.20
140-1063-10	PCV-IA1-B11	356594	9.38	1636233	11.54	1357067	16.20
140-1063-11	PCV-IA2-B11	353782	9.38	1687192	11.53	1399026	16.20
140-1063-12	PCV-IA3-B11	363113	9.38	1701606	11.53	1409144	16.20
140-1063-13	IA1-E14	372093	9.38	1765083	11.53	1488275	16.20
140-1063-17	PCV-IA2-B5	368949	9.39	1720971	11.54	1485170	16.20

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Sample No.: CCVIS 140-976/2 Date Analyzed: 03/19/2014 11:06
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC19.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	344423	9.39	1458024	11.54	1214604	16.20	
UPPER LIMIT	482192	9.72	2041234	11.87	1700446	16.53	
LOWER LIMIT	206654	9.06	874814	11.21	728762	15.87	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-976/1002	344423	9.39	1458024	11.54	1214604	16.20	
MB 140-976/1004	389292	9.38	1813244	11.53	1451706	16.20	
140-1063-1	IA4-E14	356308	9.38	1684244	11.54	1336213	16.20
140-1063-19	AMB-1	382463	9.38	1839359	11.54	1520693	16.20
140-1063-20	AMB-3	343417	9.38	1655946	11.54	1371389	16.19
140-1063-21	IA1-E19	347239	9.38	1642012	11.53	1317082	16.20
140-1063-22	IA2-E19	363785	9.38	1764672	11.53	1503623	16.20
140-1063-23	IA1-E17	359685	9.38	1752520	11.53	1459544	16.20
140-1063-24	IA1FD-E17	358412	9.38	1739516	11.53	1451460	16.20
140-1063-25	IA2-E17	361048	9.38	1756353	11.53	1478544	16.19
140-1063-16 DL	PCV-IA1-B5 DL	359963	9.38	1774737	11.53	1432488	16.20

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Sample No.: CCVIS 140-984/2 Date Analyzed: 03/21/2014 11:30
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC21.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	348435	9.38	1618750	11.53	1362025	16.19
UPPER LIMIT	487809	9.71	2266250	11.86	1906835	16.52
LOWER LIMIT	209061	9.05	971250	11.20	817215	15.86
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 140-984/1002	348435	9.38	1618750	11.53	1362025	16.19
MB 140-984/5	375868	9.37	1755903	11.53	1341257	16.19
140-1063-18	PCV-IAPC-B5	357606	9.38	1688006	11.53	1376386

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1
 Matrix: Air Lab File ID: JC19P102.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:12
 Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1.43
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.065	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.075	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.079	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.071	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.55	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.37	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.24	J	0.50	0.045
67-64-1	Acetone	58.08	3.5	J	5.0	1.4
71-43-2	Benzene	78.11	0.26		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1
 Matrix: Air Lab File ID: JC19P102.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:12
 Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1.43
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	23		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.079	J	0.20	0.068
142-82-5	Heptane	100.21	0.098	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.13	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.6		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.36	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.25		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.095	J	0.20	0.061
115-07-1	Propene	42.08	0.55	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.99		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1
 Matrix: Air Lab File ID: JC19P102.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:12
 Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1.43
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1
 Matrix: Air Lab File ID: JC19P102.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:12
 Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1.43
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.36	J	1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.37	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.48	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.33	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.6	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.1	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.0	J	2.0	0.18
67-64-1	Acetone	58.08	8.2	J	12	3.3
71-43-2	Benzene	78.11	0.82		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1
 Matrix: Air Lab File ID: JC19P102.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:12
 Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1.43
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	44		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.34	J	0.87	0.30
142-82-5	Heptane	100.21	0.40	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.45	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	6.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.41	J	0.87	0.26
115-07-1	Propene	42.08	0.94	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.99	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	3.7		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA4-E14 Lab Sample ID: 140-1063-1
 Matrix: Air Lab File ID: JC19P102.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:12
 Sample wt/vol: 286(mL) Date Analyzed: 03/19/2014 16:52
 Soil Aliquot Vol: _____ Dilution Factor: 1.43
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D
 Lims ID: 140-1063-A-1 Lab Sample ID: 140-1063-1
 Client ID: IA4-E14
 Sample Type: Client
 Inject. Date: 19-Mar-2014 16:52:30 ALS Bottle#: 2 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.4300
 Sample Info: 140-1063-A-17
 Misc. Info.: J031914,TO15,,140-0000532-008
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:57:42 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 17:57:41

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.385	-0.006	90	356308	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.542	-0.006	94	1684244	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.195	16.201	-0.006	87	1336213	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.820	-0.006	91	858075	3.63	
7 Propene	41	3.978	3.973	0.005	97	23862	0.2184	
8 Dichlorodifluoromethane	85	4.026	4.032	-0.006	99	61646	0.1747	
9 Chloromethane	52	4.225	4.231	-0.006	97	8222	0.2051	
17 Ethanol	31	5.113	5.119	-0.006	95	265362	9.28	
19 2-Methylbutane	43	5.409	5.409	0.0	91	22427	0.1482	
20 Trichlorofluoromethane	101	5.645	5.646	-0.001	87	26140	0.0843	
23 Acetone	58	5.764	5.770	-0.006	92	70008	1.38	
24 Isopropyl alcohol	45	5.850	5.850	0.0	97	137749	1.03	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.576	6.582	-0.006	67	5988	0.0279	
31 Methylene Chloride	84	6.754	6.754	0.0	86	13820	0.1450	
39 2-Butanone (MEK)	72	8.593	8.589	0.004	97	7466	0.2214	
40 Hexane	56	8.631	8.637	-0.006	65	4851	0.0506	
45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	40	5662	0.0262	
48 Benzene	78	11.014	11.026	-0.012	89	29502	0.1021	
50 Carbon tetrachloride	117	11.046	11.047	-0.001	86	6489	0.0272	
53 Isooctane	57	11.757	11.763	-0.006	69	13929	0.0282	
54 n-Heptane	71	12.117	12.123	-0.006	81	3986	0.0390	
62 4-Methyl-2-pentanone (MIBK)	43	13.376	13.371	0.005	85	17290	0.0979	
65 Toluene	91	14.247	14.253	-0.006	93	98463	0.3972	
73 Tetrachloroethene	129	15.382	15.383	-0.001	81	6769	0.0586	
76 Ethylbenzene	91	16.528	16.529	-0.001	41	8685	0.0317	
78 m-Xylene & p-Xylene	91	16.684	16.685	-0.001	94	22399	0.1014	
82 o-Xylene	91	17.211	17.212	-0.001	60	8480	0.0379	
93 1,2,4-Trimethylbenzene	105	18.938	18.939	-0.001	46	7799	0.0301	
97 1,4-Dichlorobenzene	146	19.293	19.294	-0.001	56	5033	0.0317	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Worklist Smp#: 8

Client ID: IA4-E14

Purge Vol: 500.000 mL

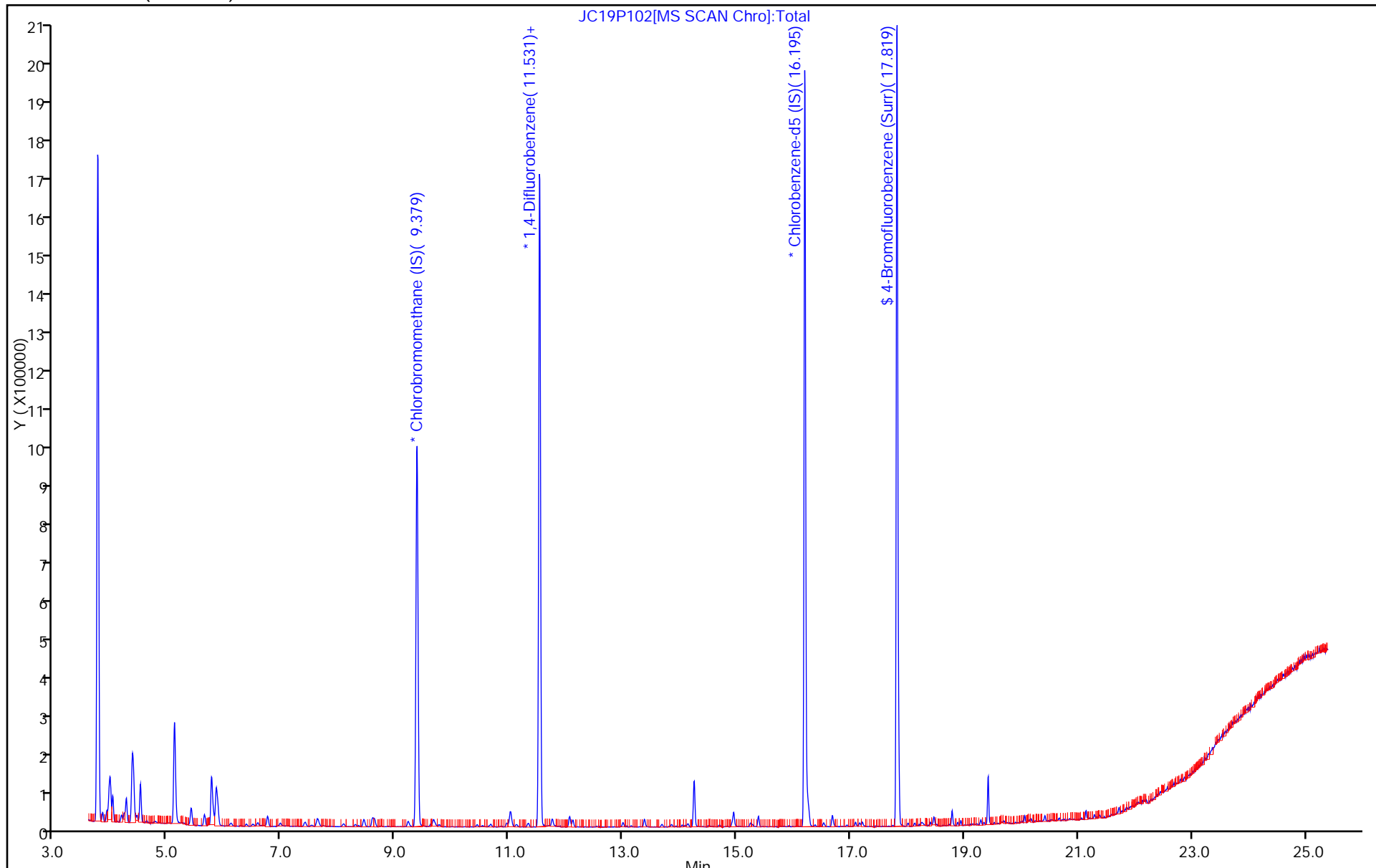
Dil. Factor: 1.4300

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

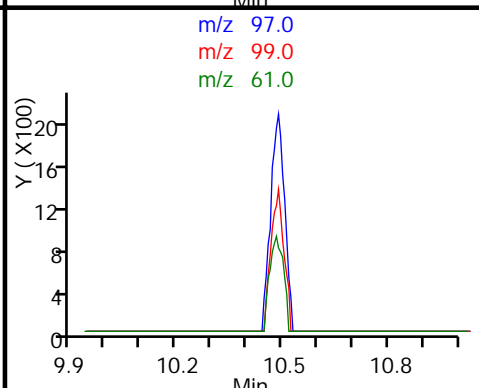
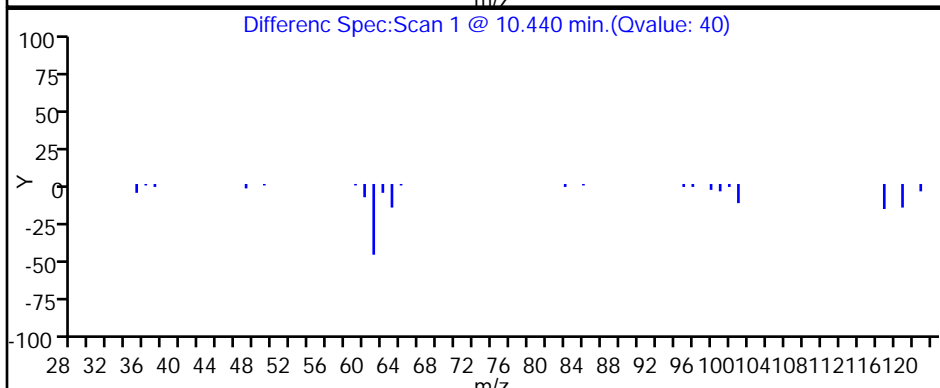
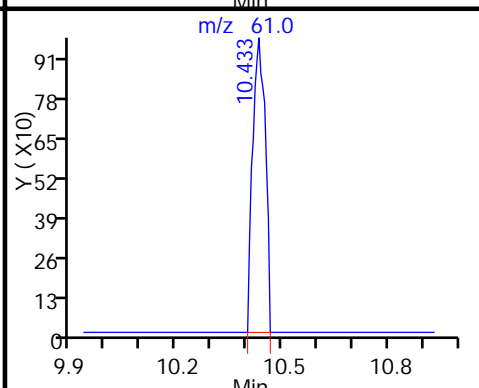
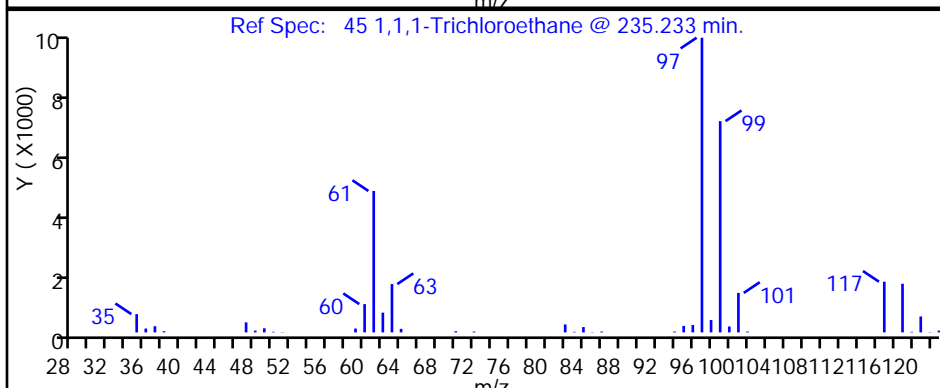
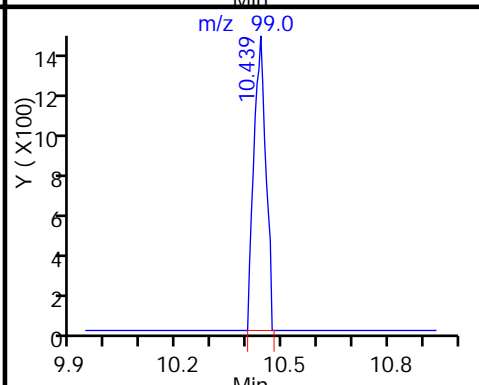
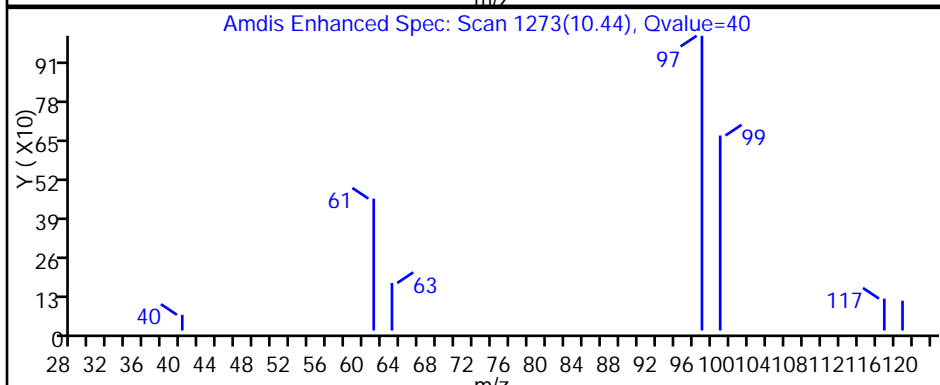
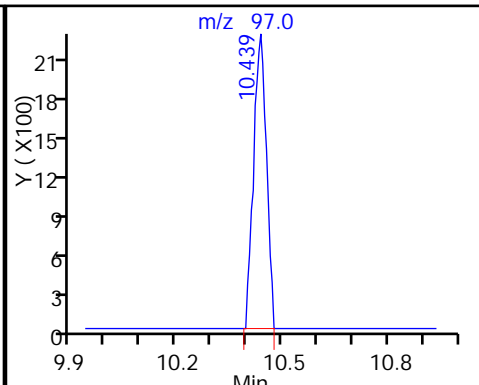
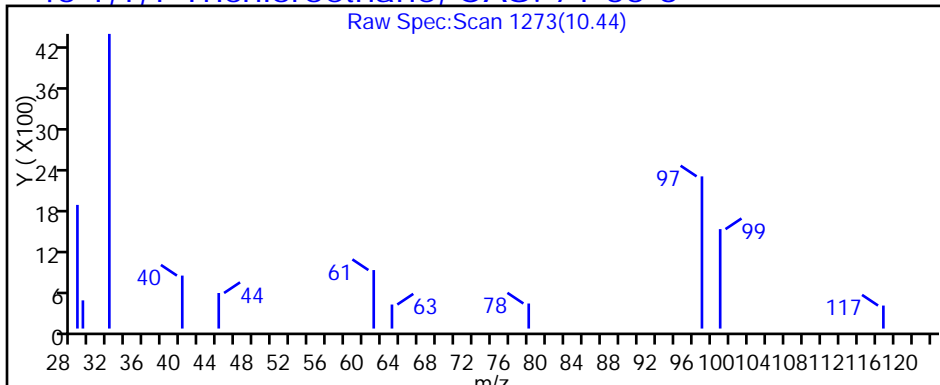
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

45 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

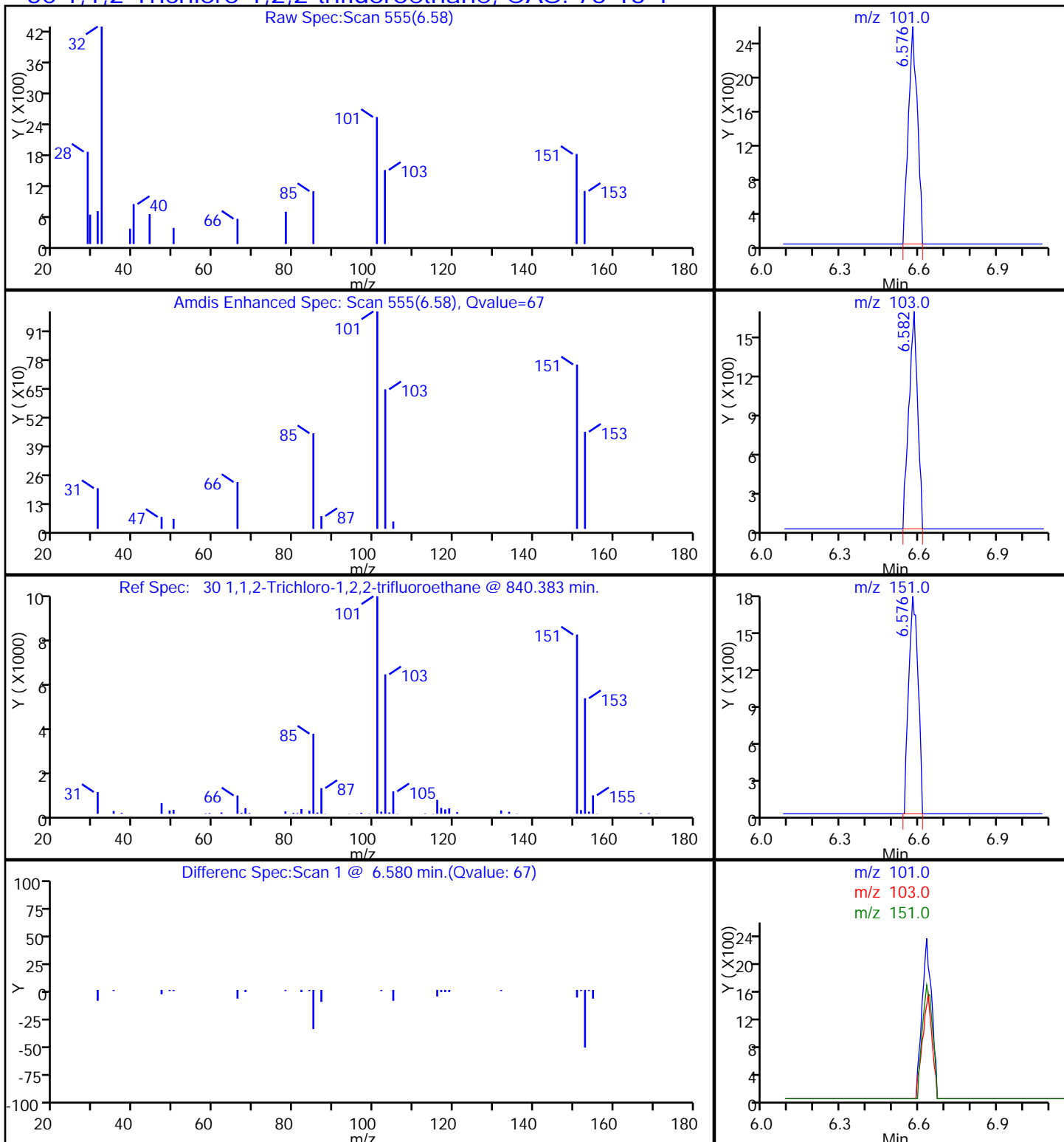
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

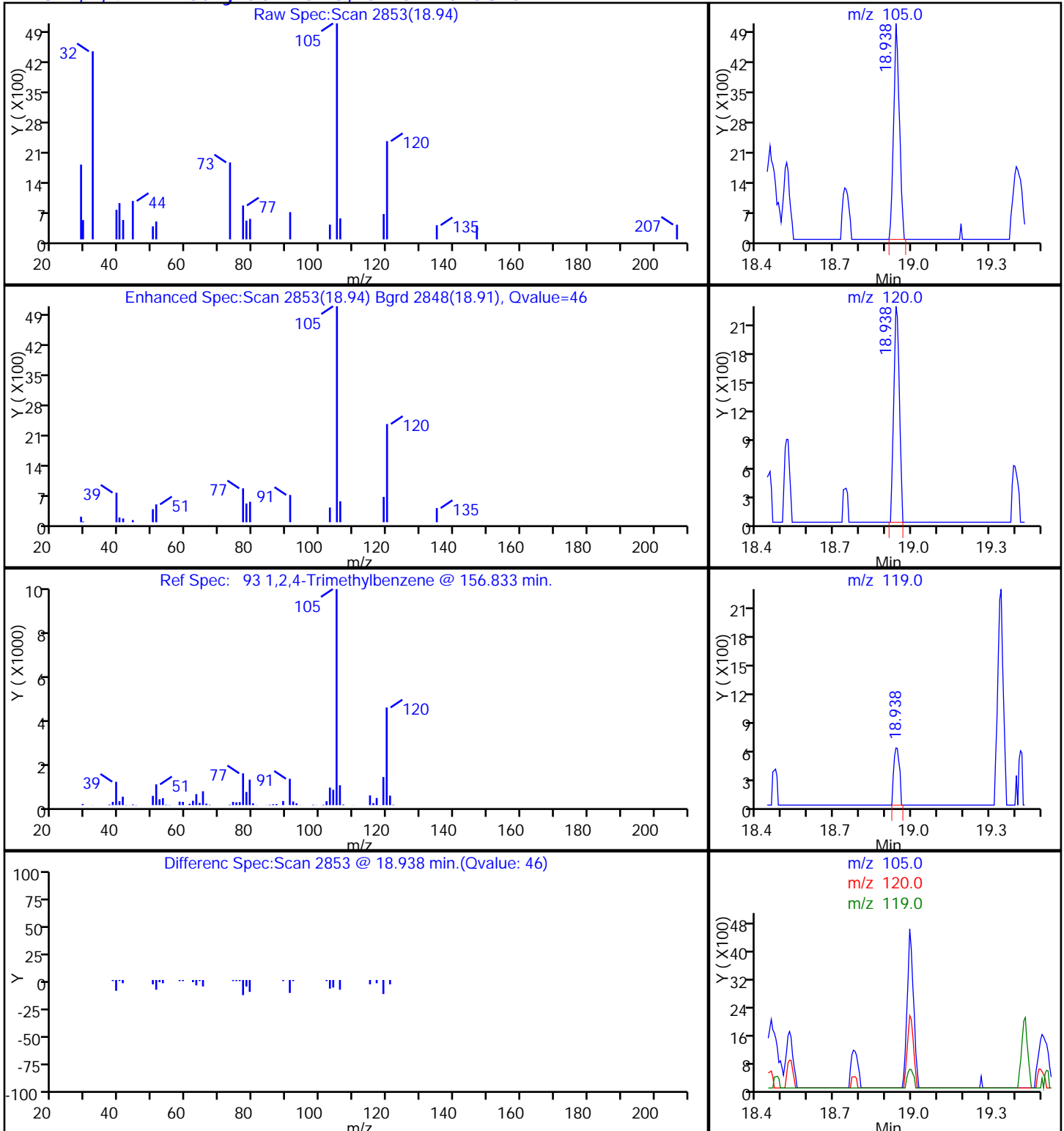
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

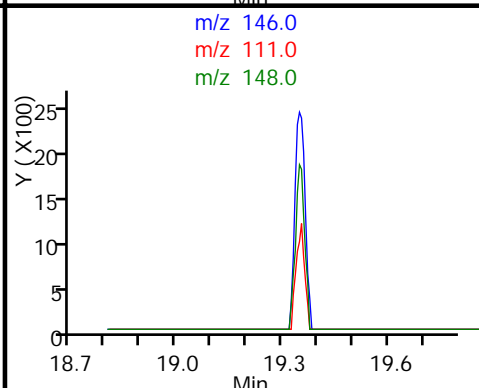
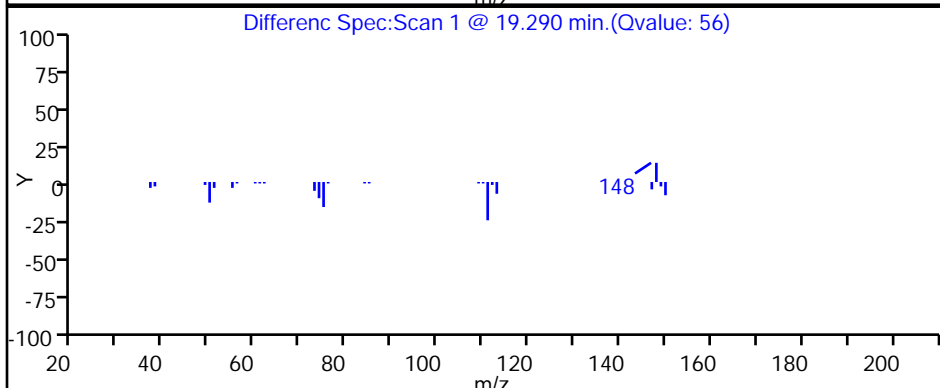
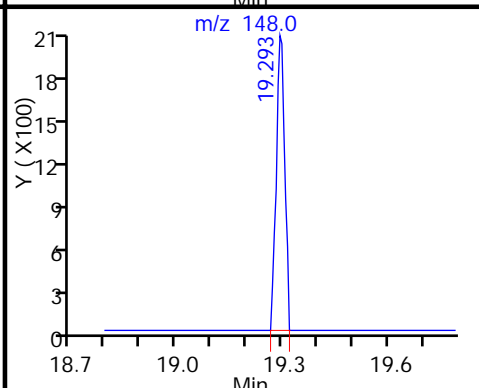
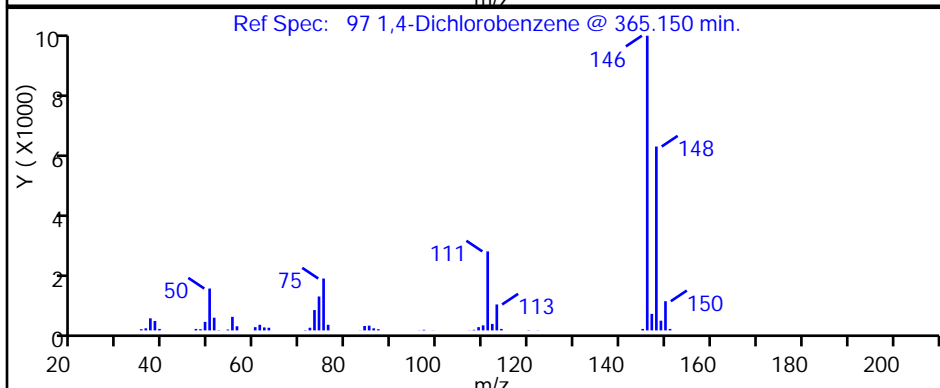
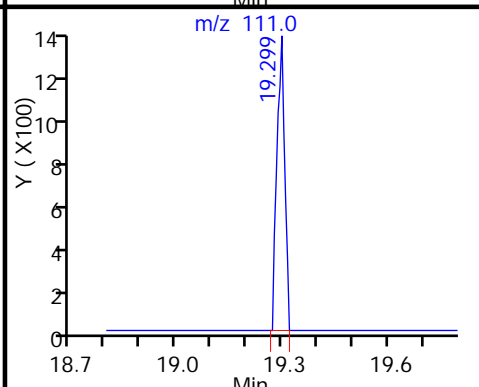
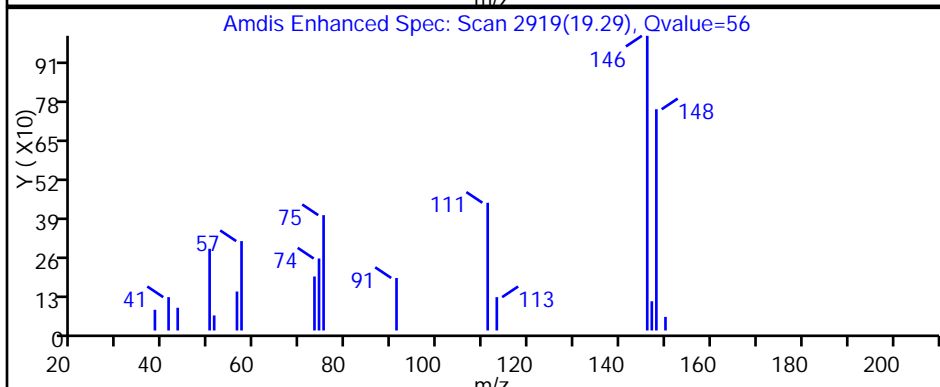
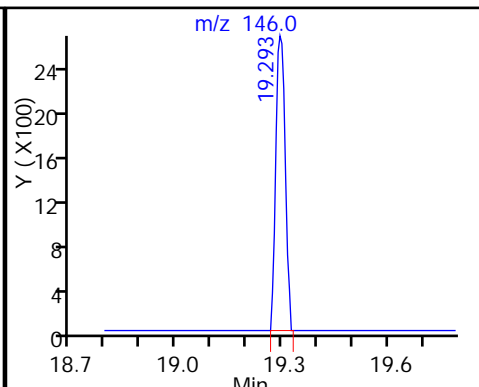
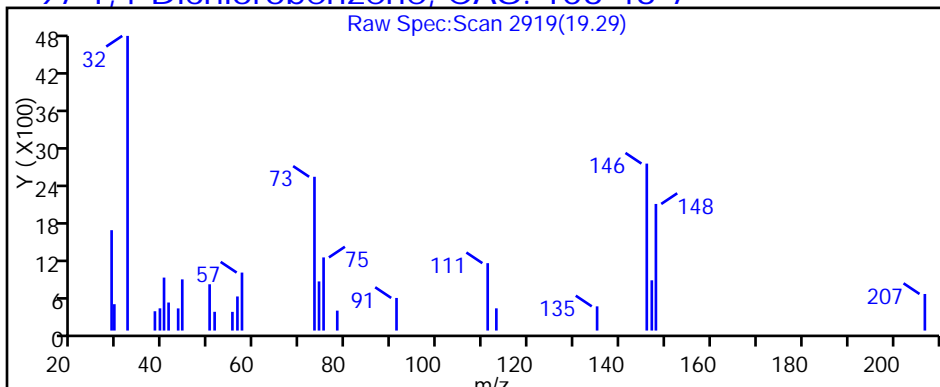
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

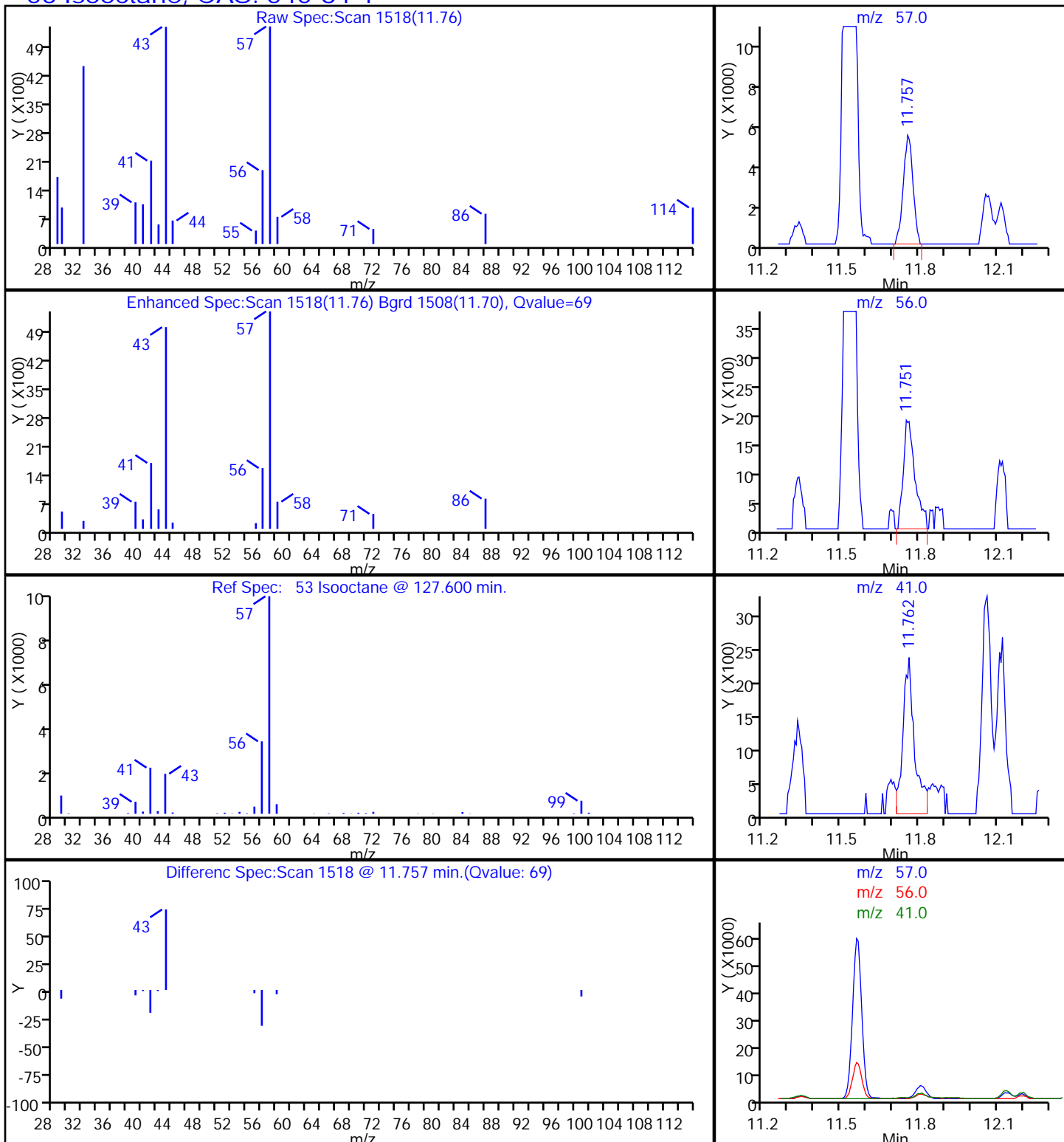
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

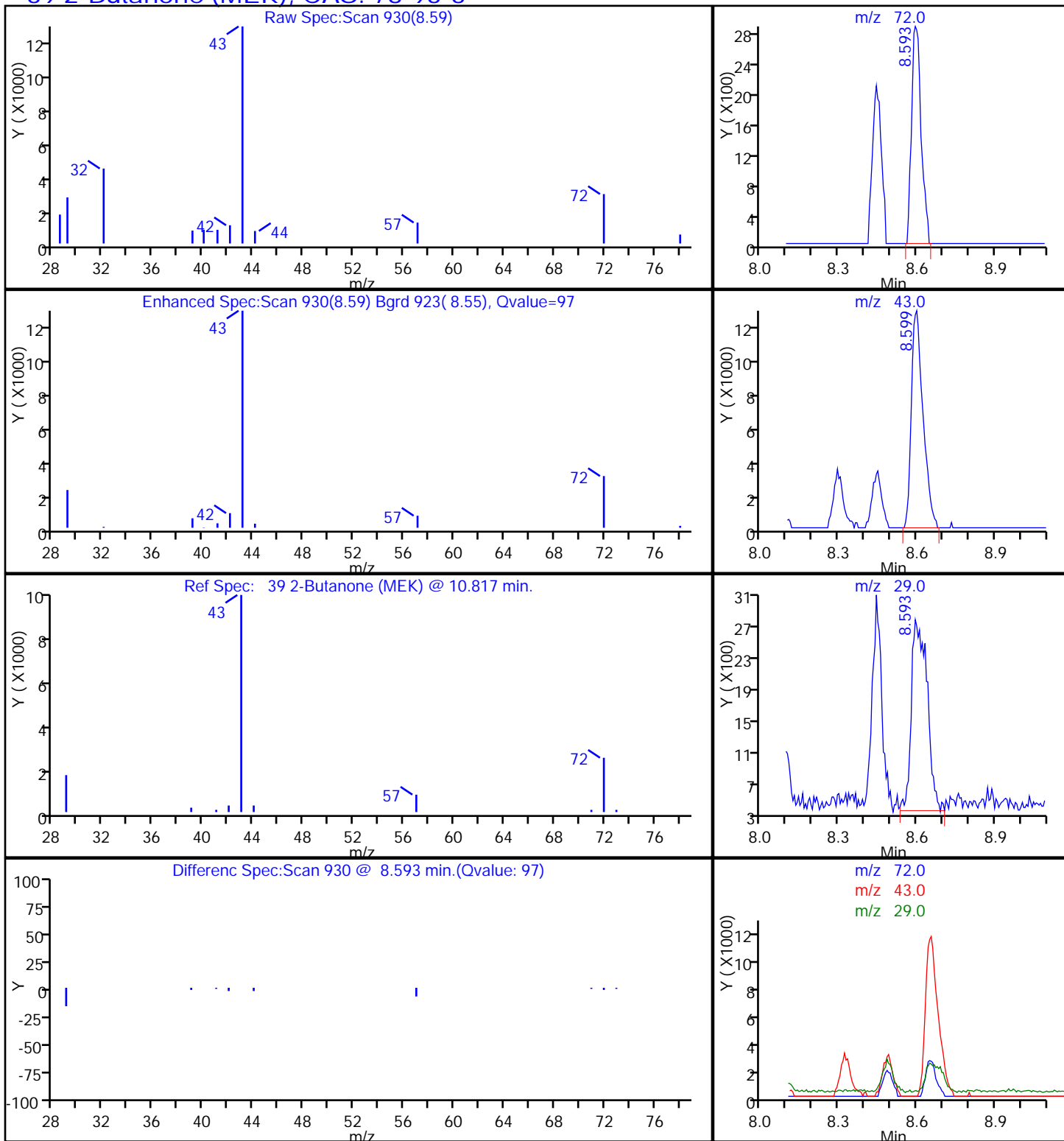
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

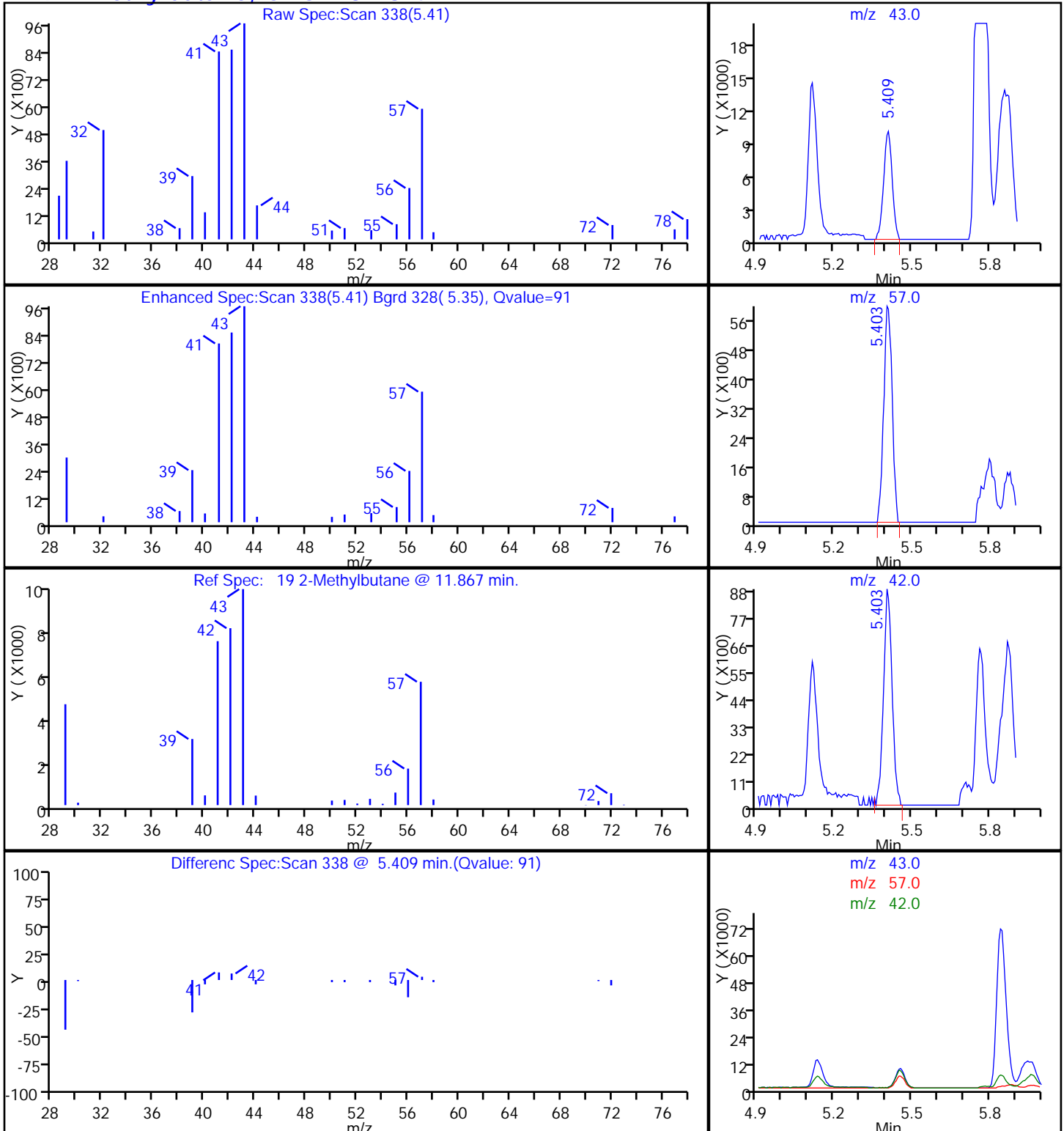
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

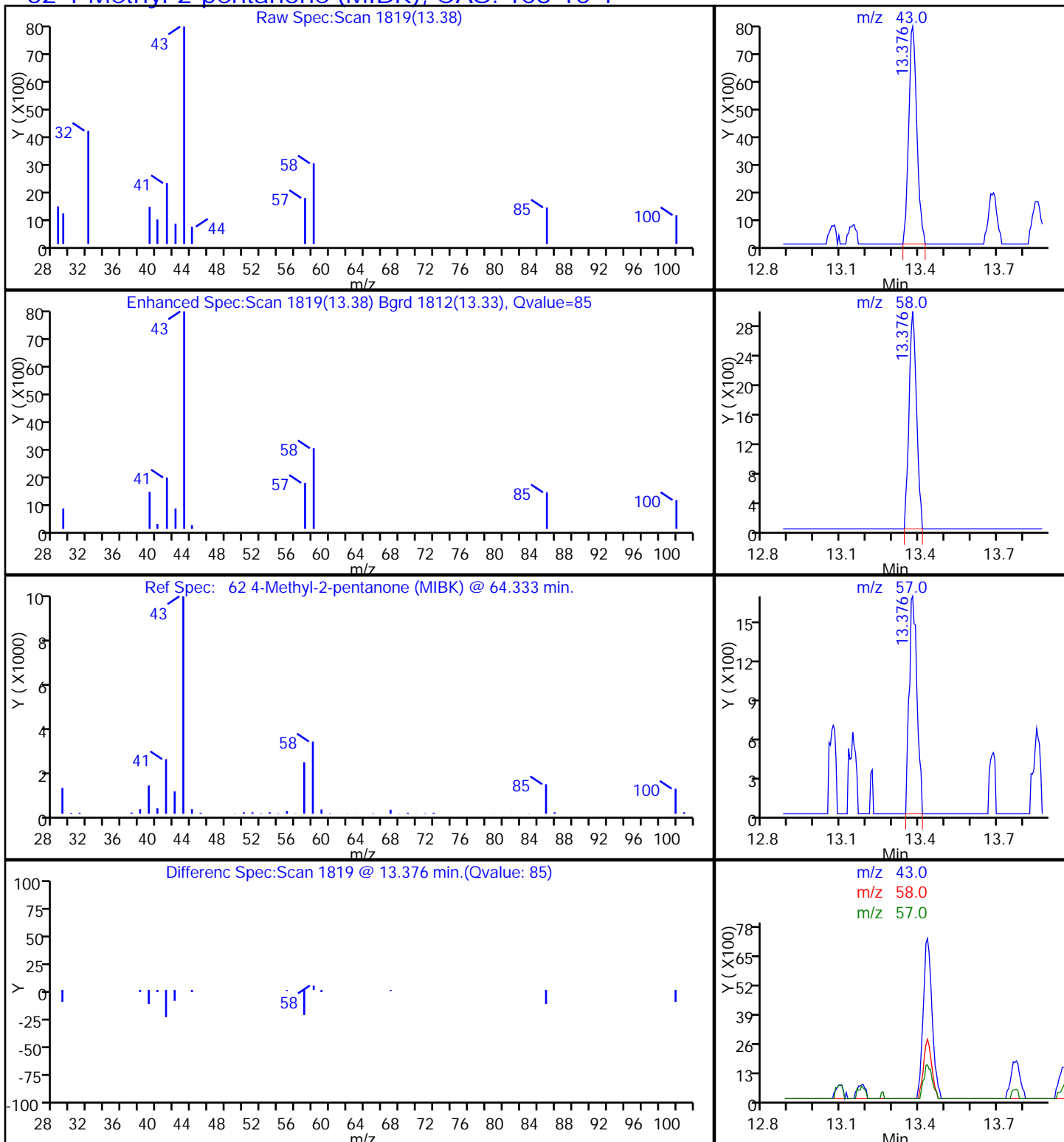
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

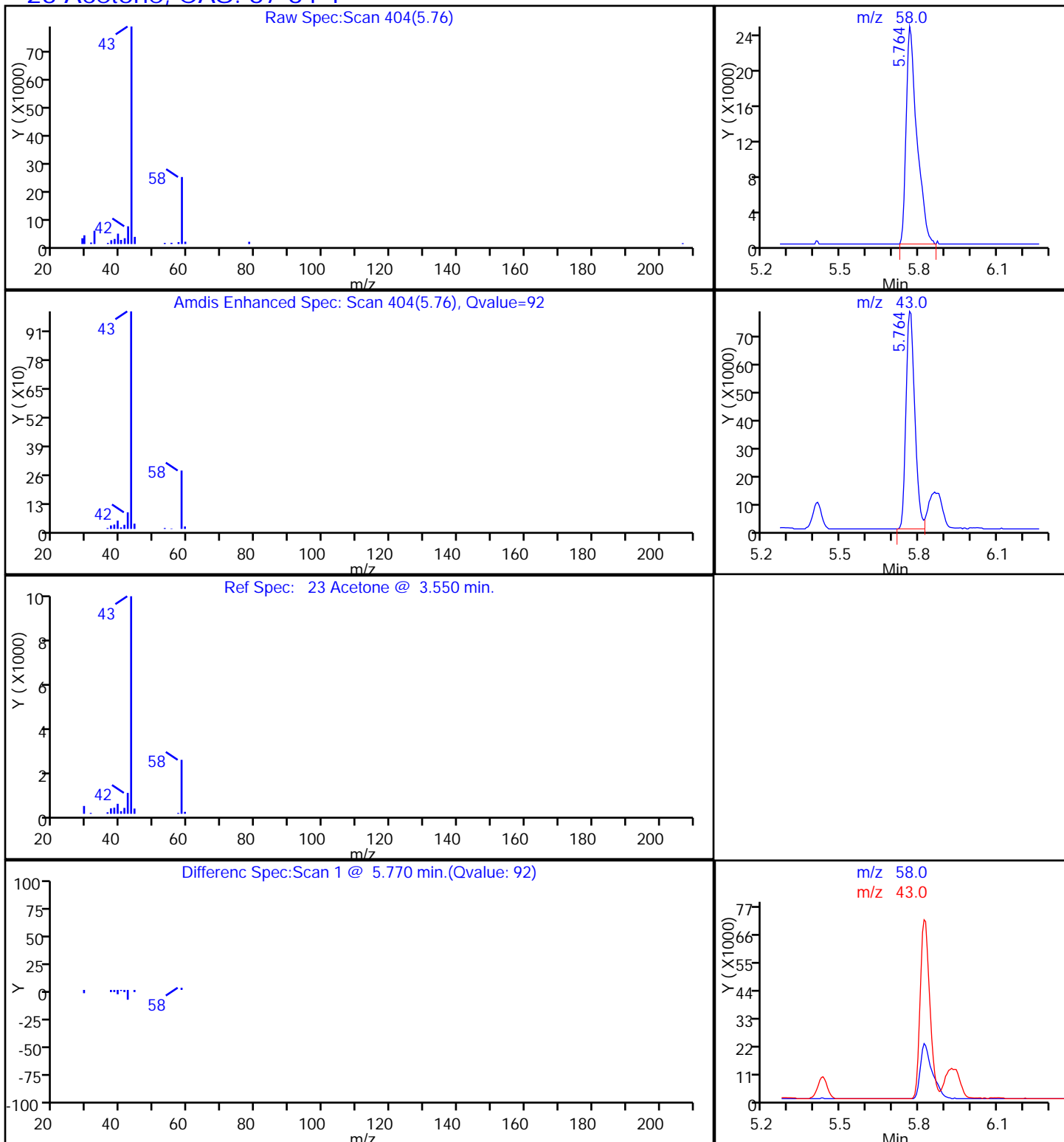
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

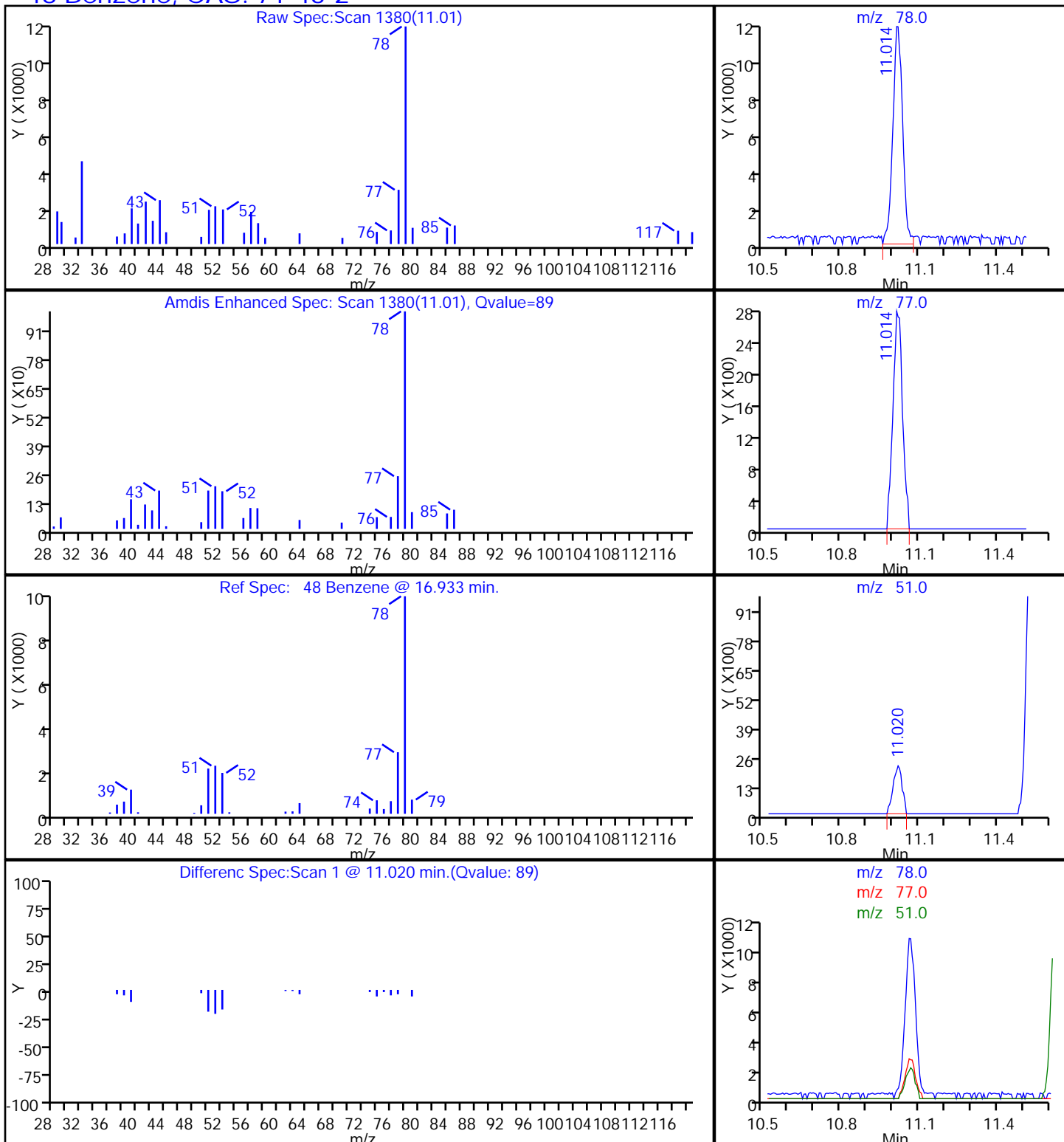
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

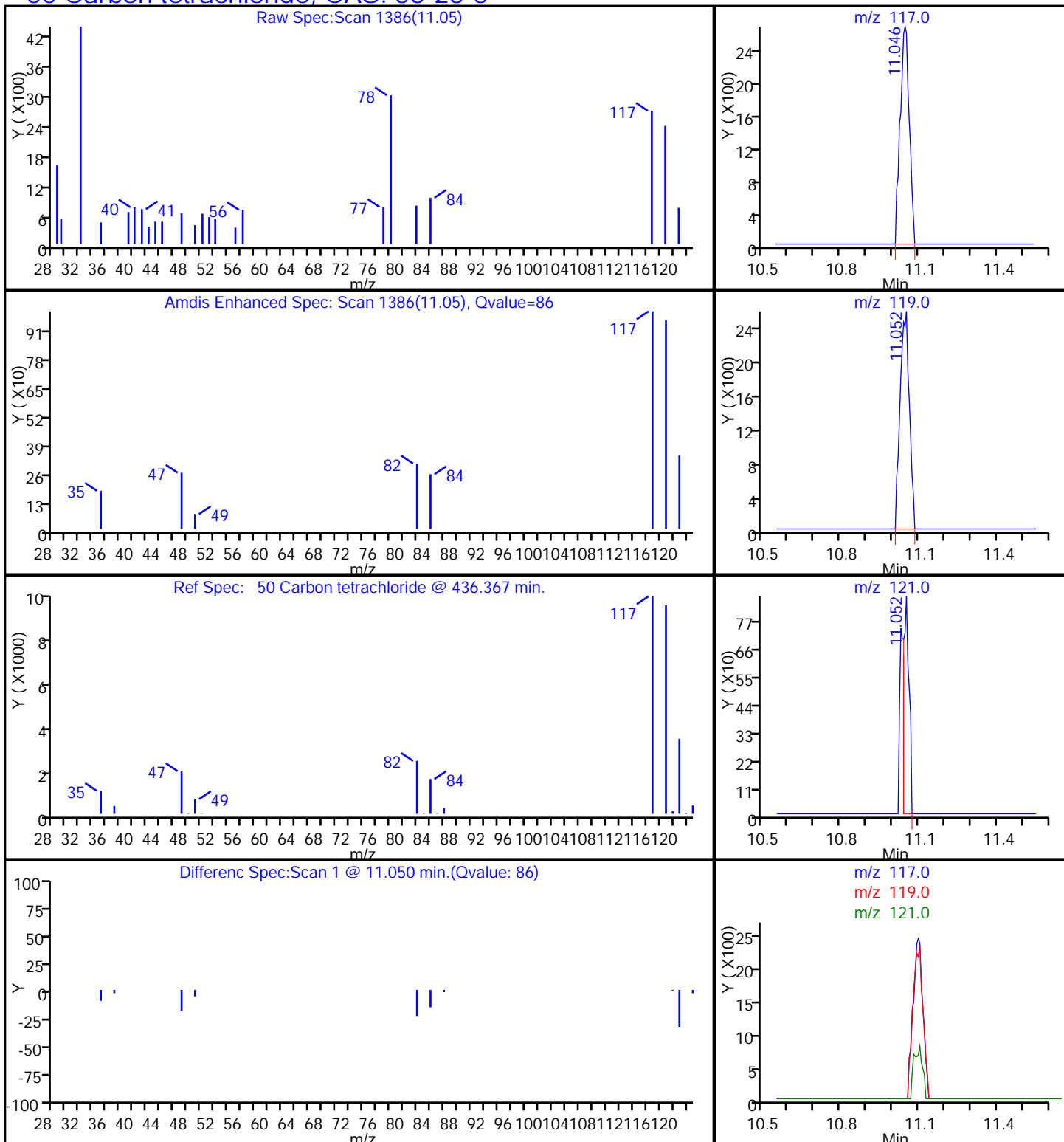
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

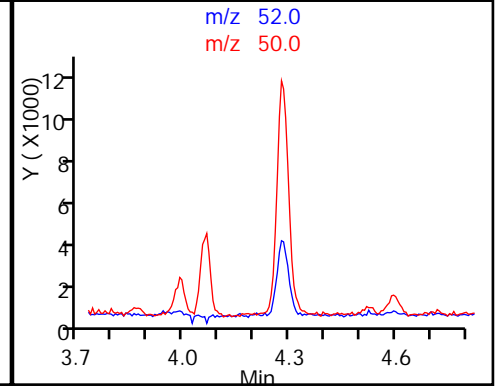
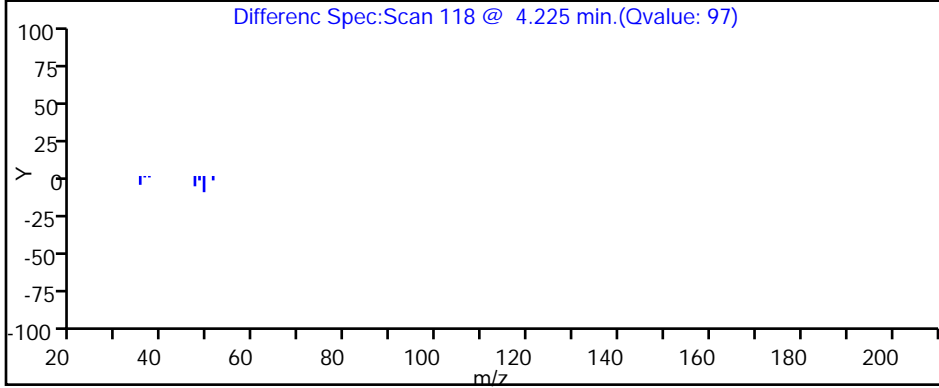
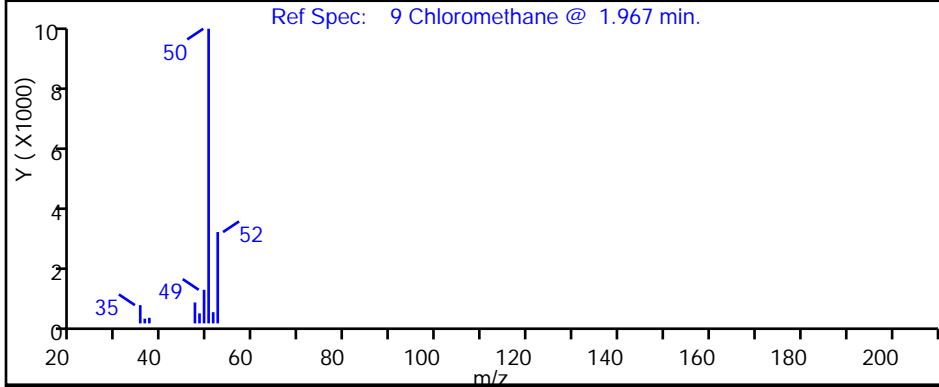
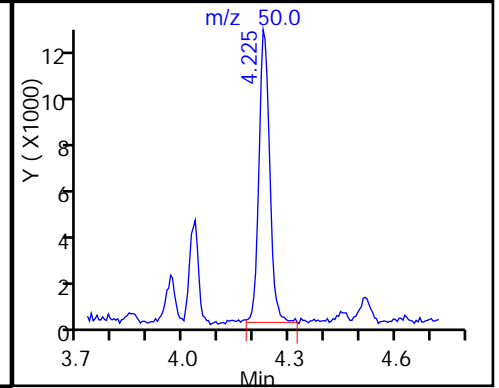
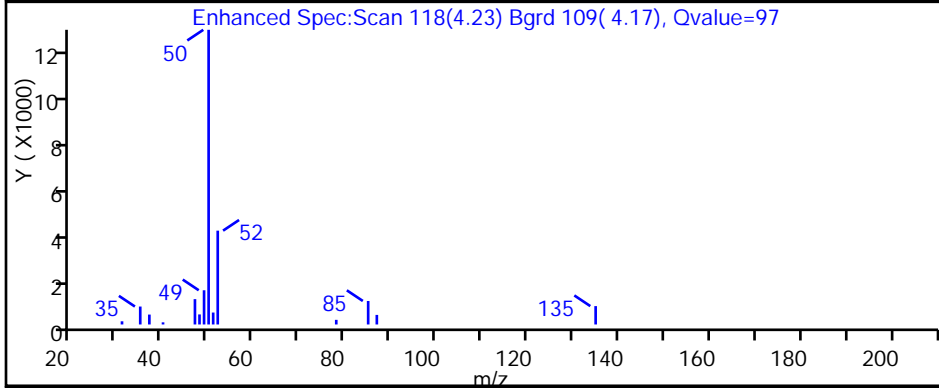
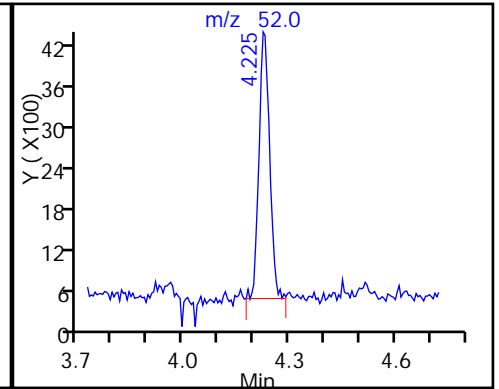
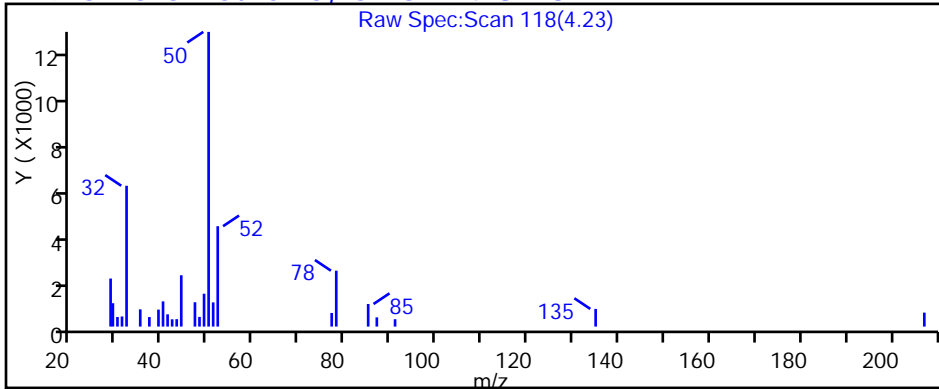
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

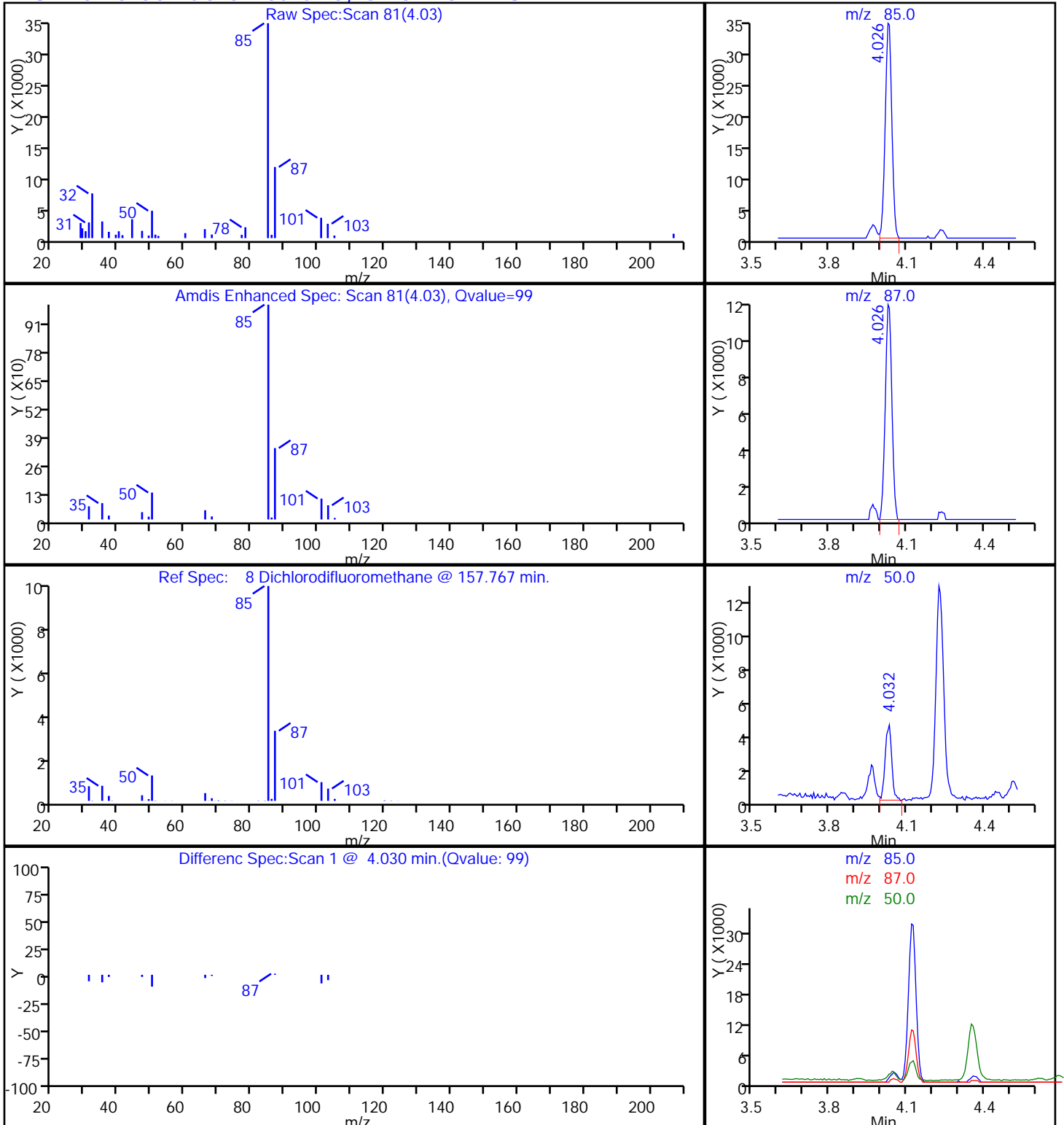
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

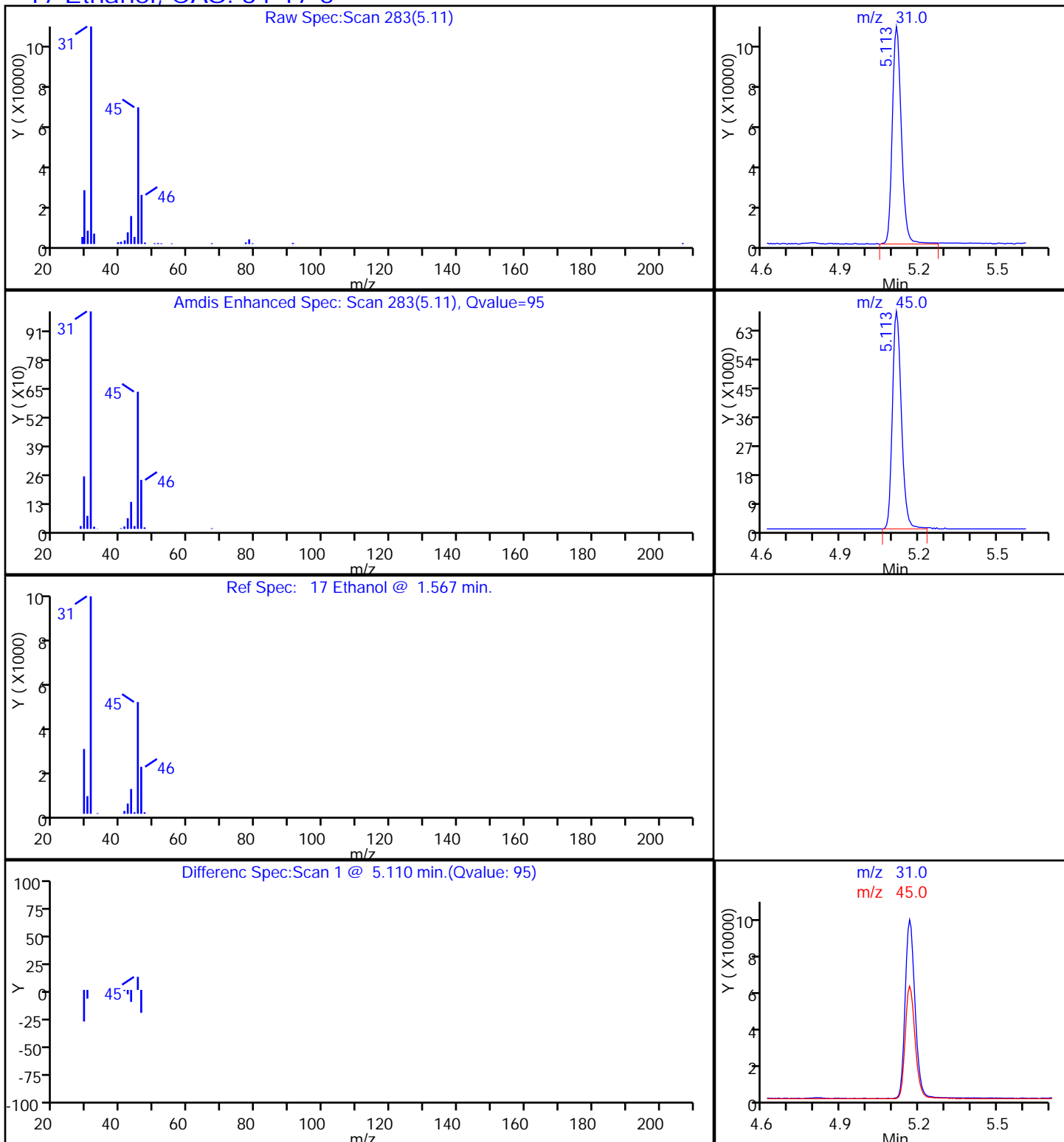
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

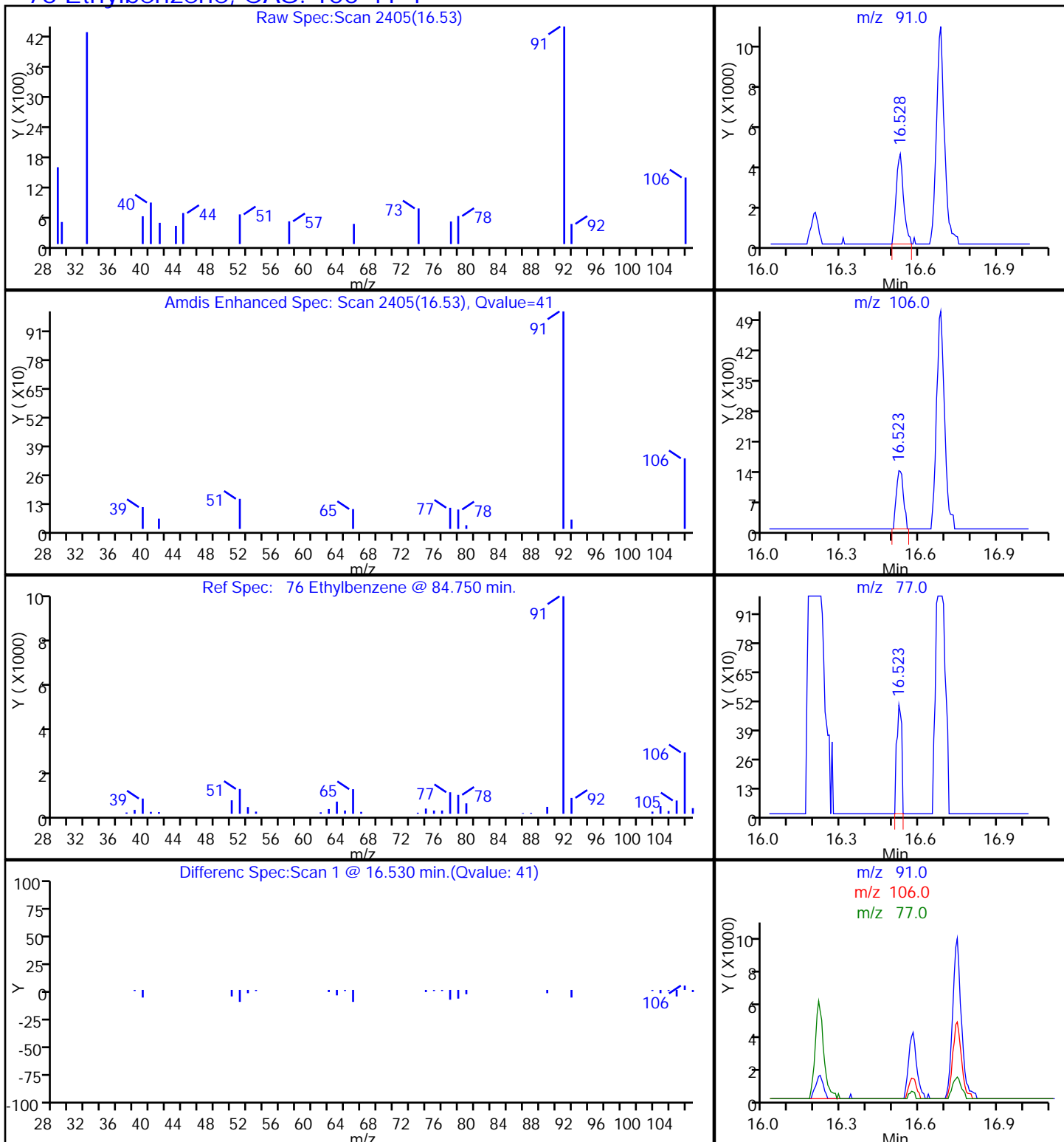
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

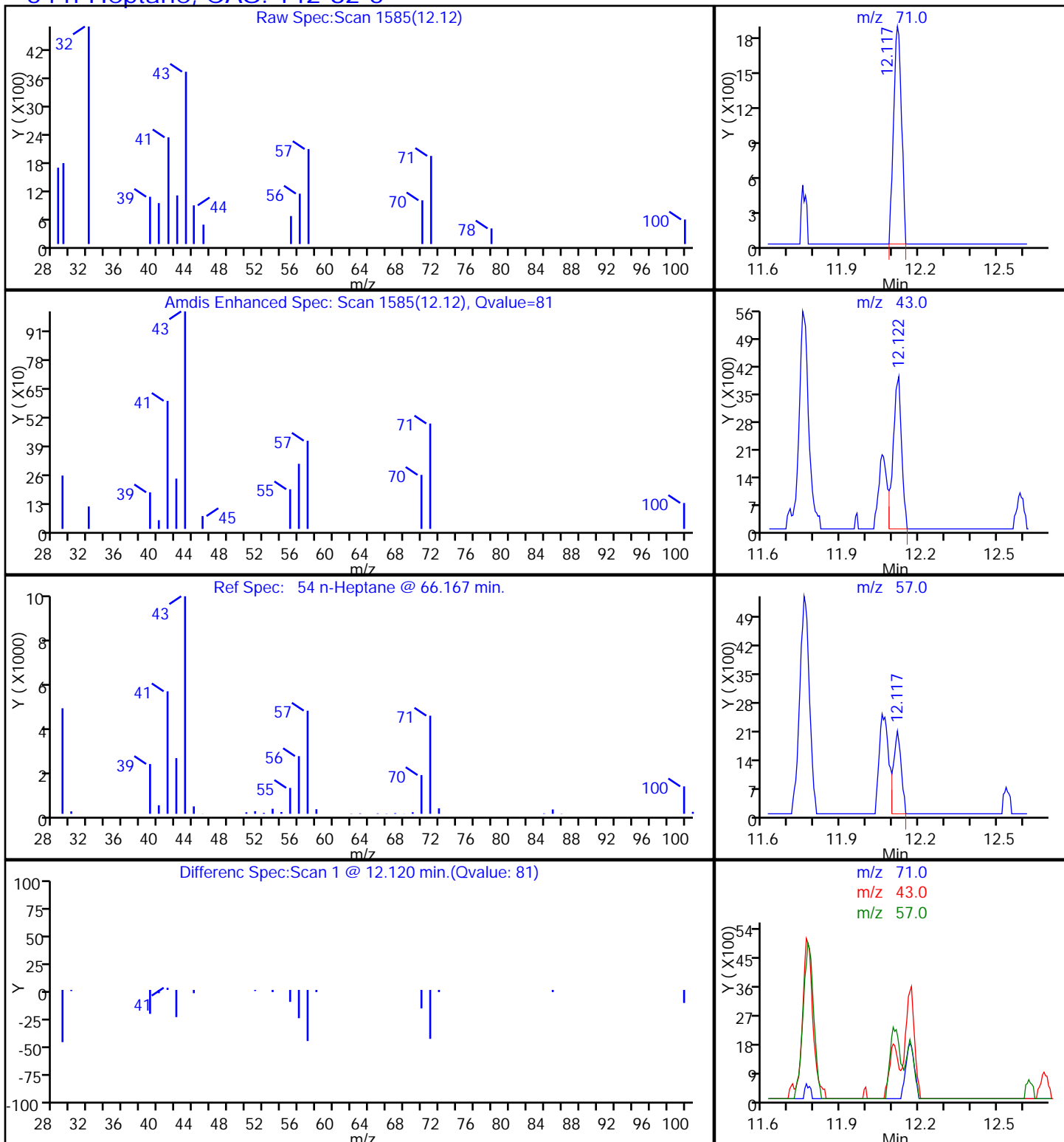
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

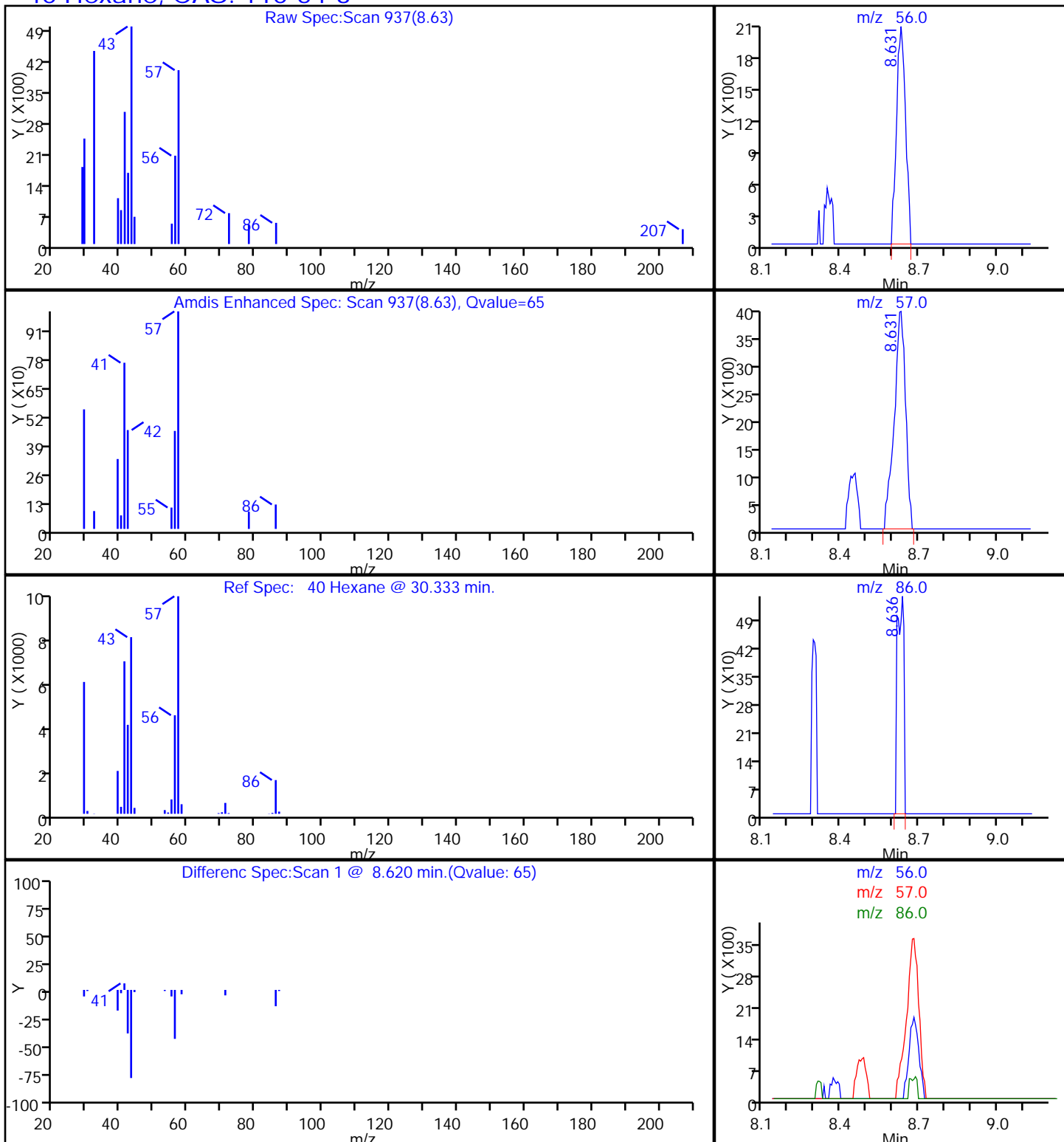
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

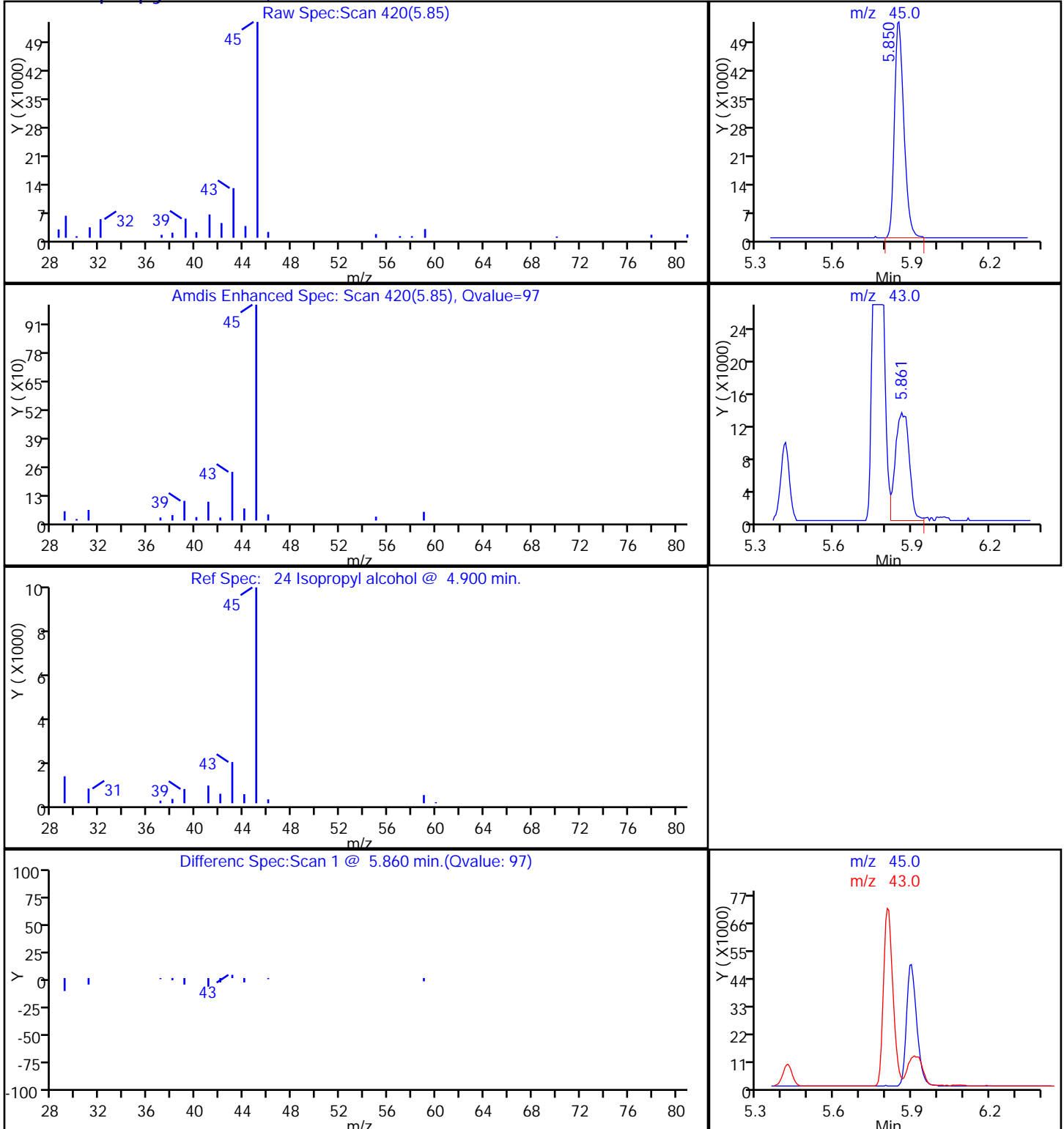
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

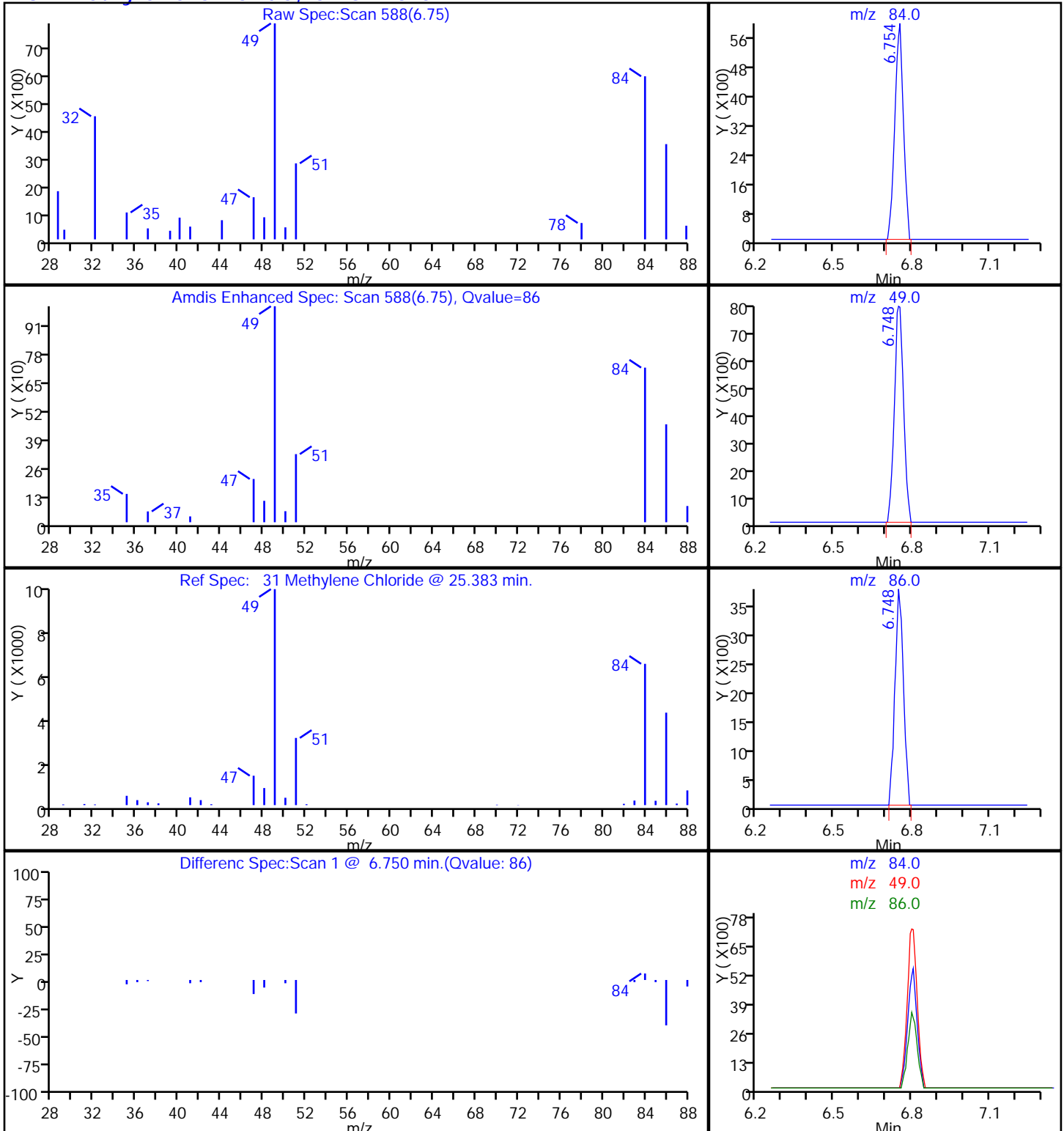
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

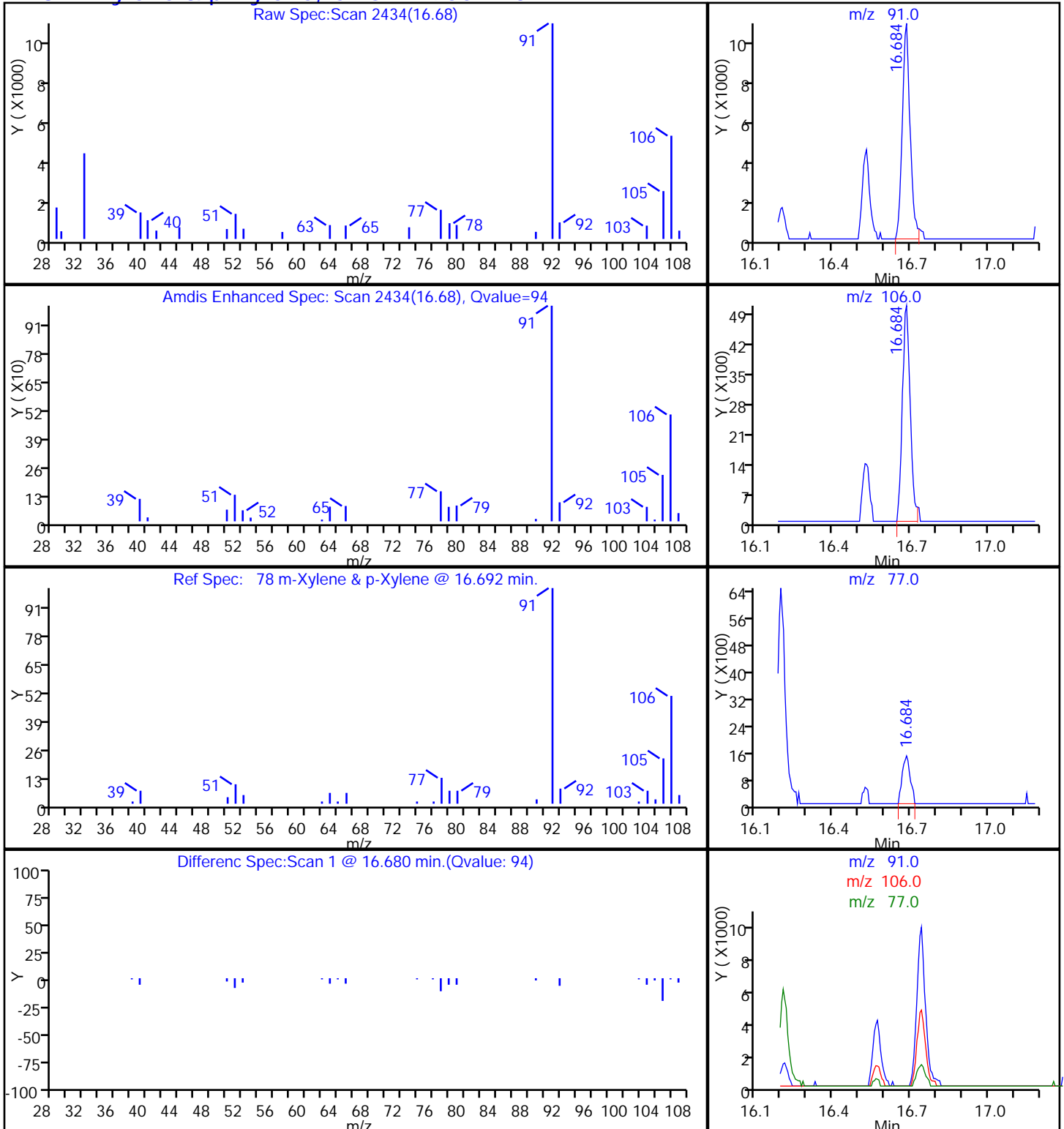
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

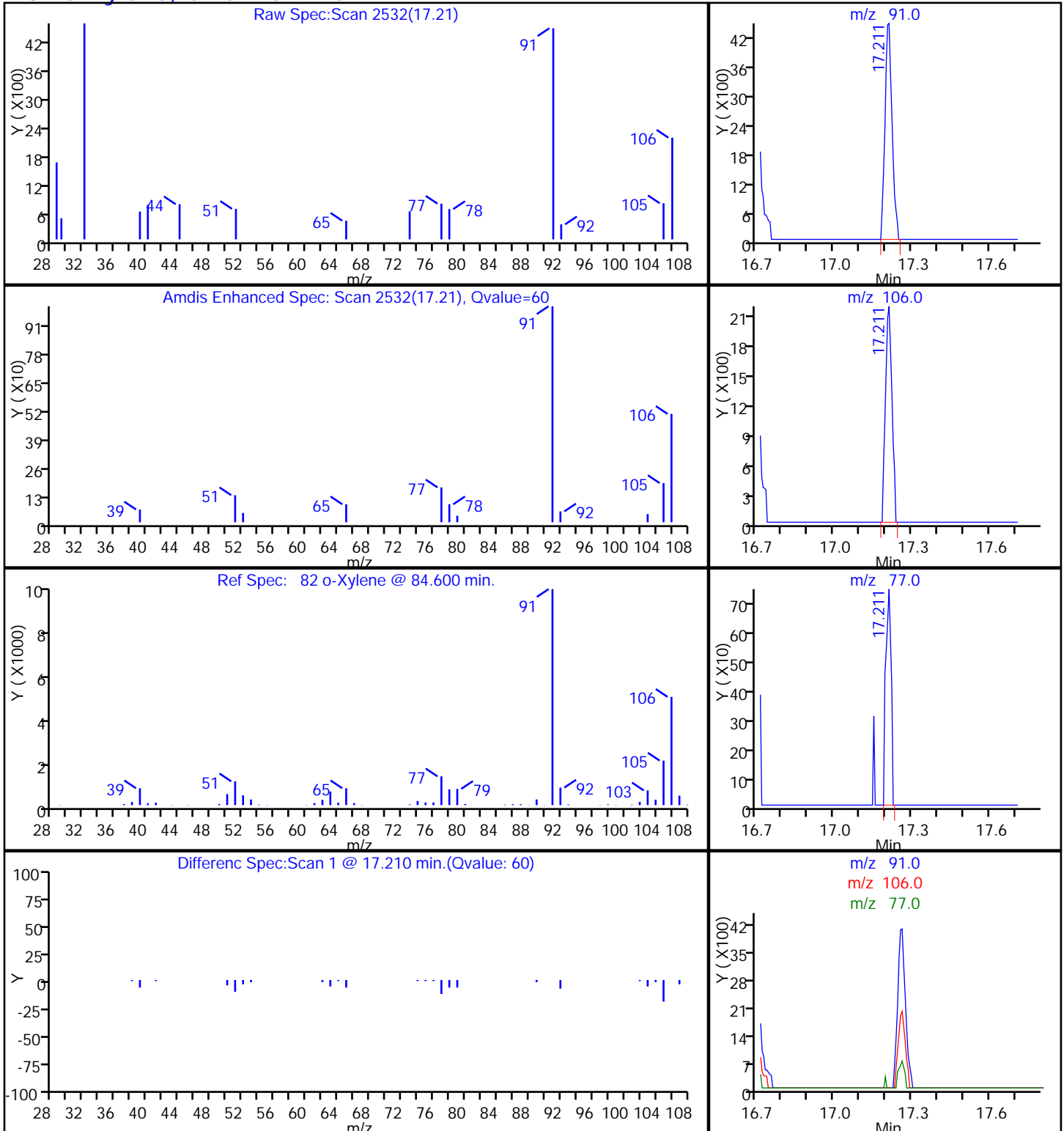
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

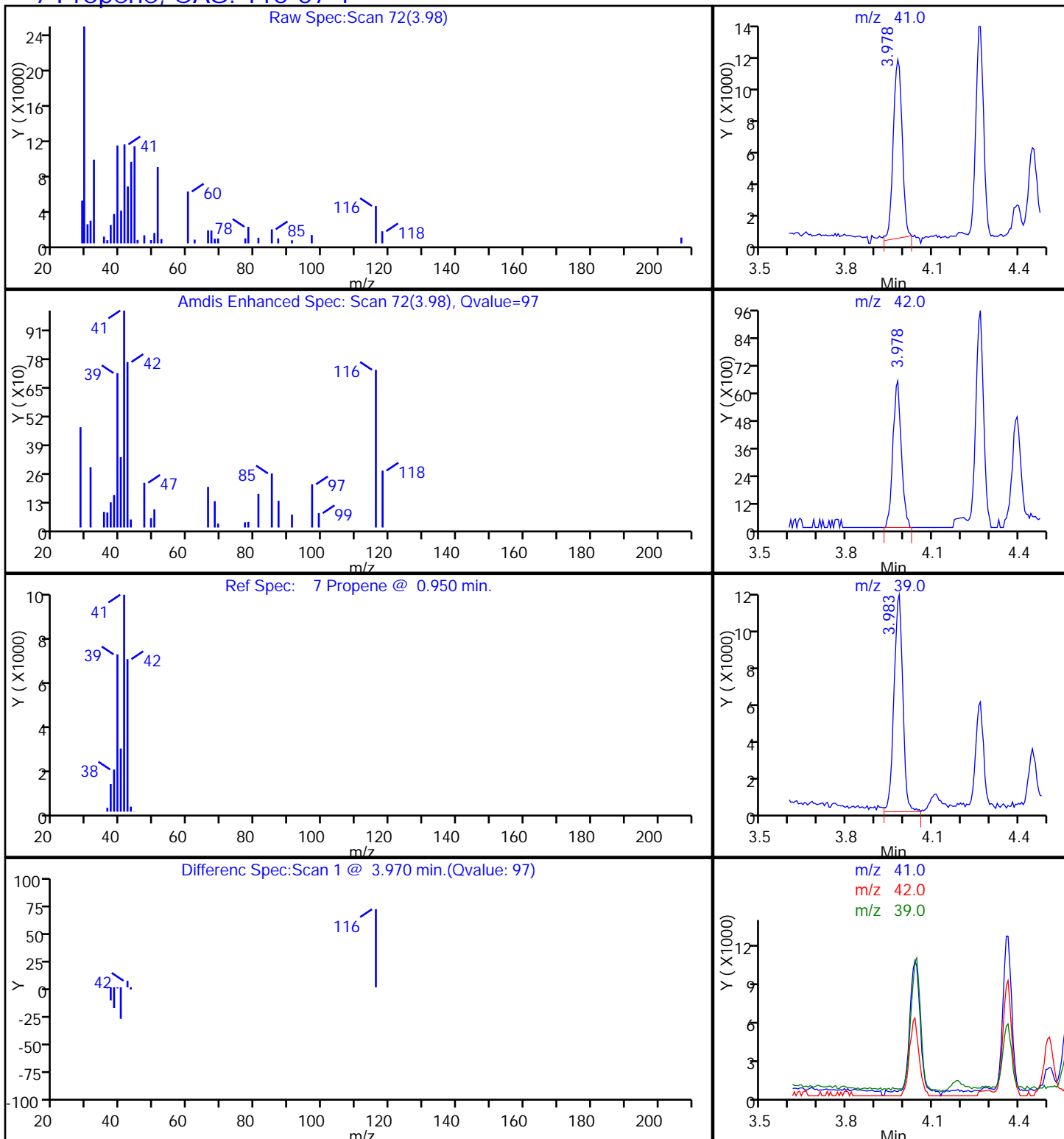
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

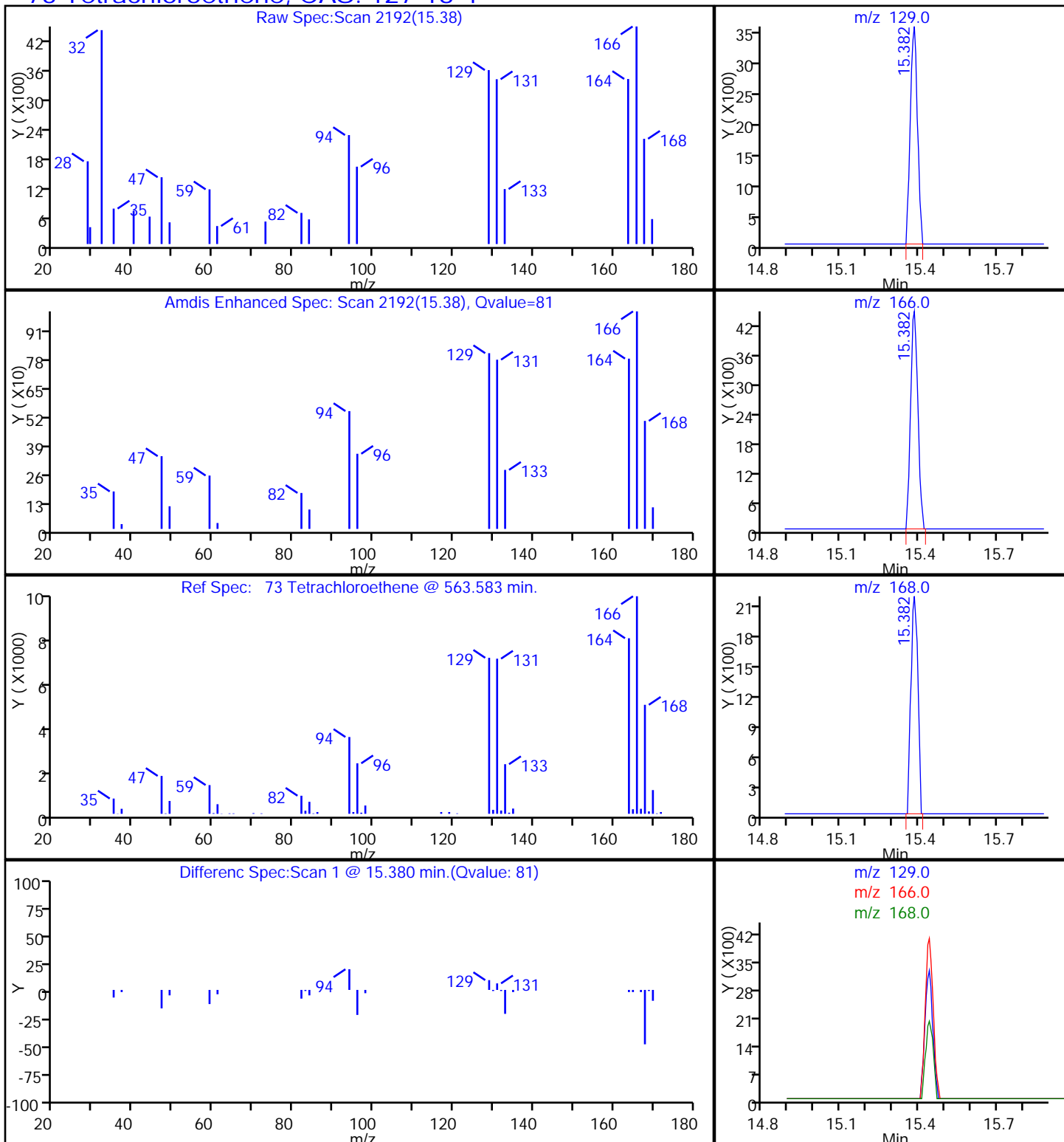
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

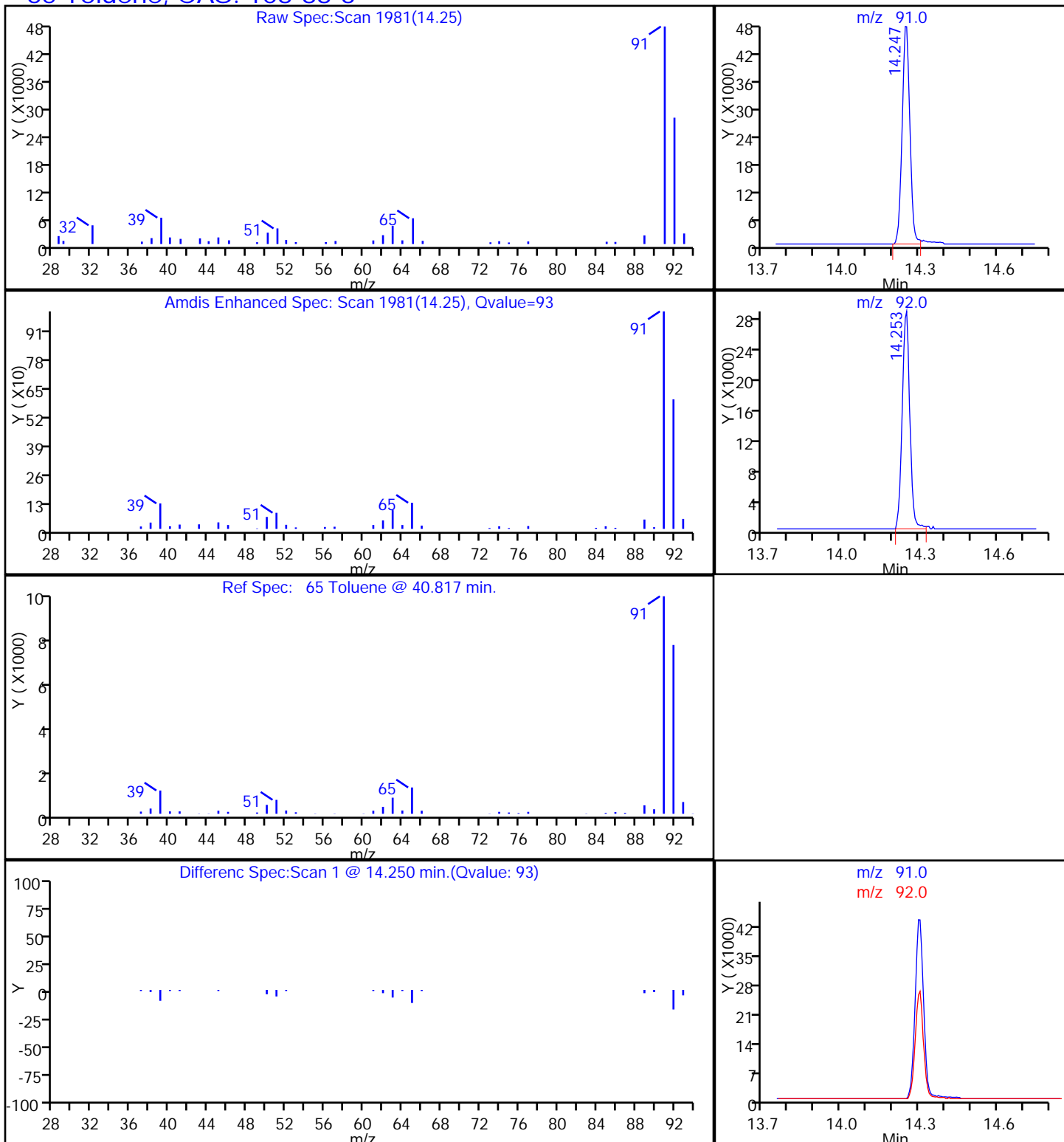
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P102.D

Injection Date: 19-Mar-2014 16:52:30

Instrument ID: MJ

Lims ID: 140-1063-A-1

Lab Sample ID: 140-1063-1

Client ID: IA4-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.4300

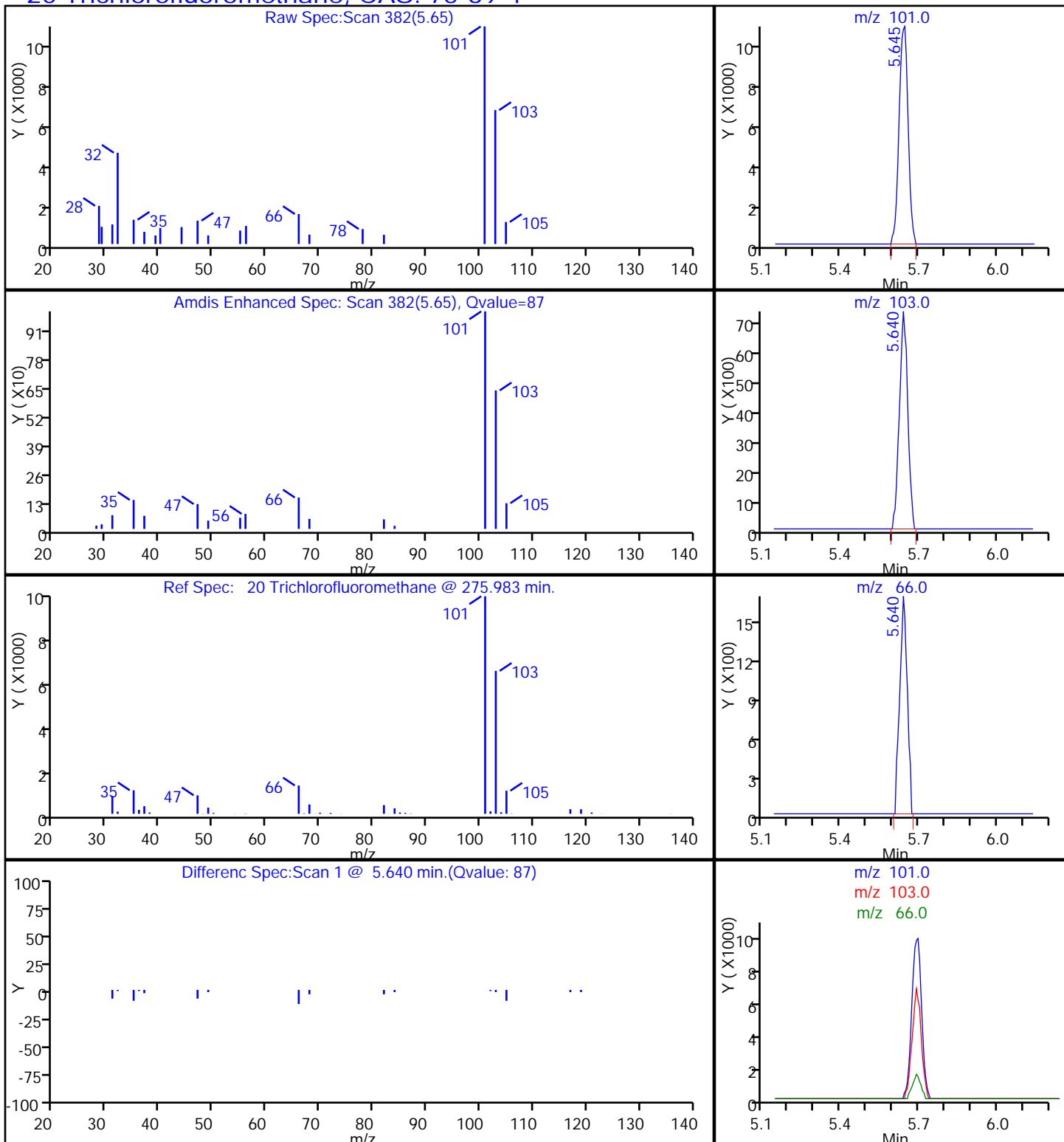
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2
 Matrix: Air Lab File ID: JC18P205.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:40
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.064	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.098	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.078	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.081	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.62	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.6		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.24		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.072	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.098	J	0.50	0.045
67-64-1	Acetone	58.08	6.7		5.0	1.4
71-43-2	Benzene	78.11	0.40		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2
 Matrix: Air Lab File ID: JC18P205.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:40
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.11	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.38	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	98		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.11	J	0.20	0.068
142-82-5	Heptane	100.21	0.19	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.35	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.71		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.32		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.13	J	0.20	0.061
115-07-1	Propene	42.08	2.2	cn	0.50	0.077
100-42-5	Styrene	104.15	0.068	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.27		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	2.1		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2
 Matrix: Air Lab File ID: JC18P205.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:40
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 23:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2
 Matrix: Air Lab File ID: JC18P205.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:40
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.49	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.48	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.47	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.38	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	7.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.84		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.36	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.40	J	2.0	0.18
67-64-1	Acetone	58.08	16		12	3.3
71-43-2	Benzene	78.11	1.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2
 Matrix: Air Lab File ID: JC18P205.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:40
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 23:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.40	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.56	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	1.3	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	190		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.49	J	0.87	0.30
142-82-5	Heptane	100.21	0.76	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.2	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.5		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.55	J	0.87	0.26
115-07-1	Propene	42.08	3.8	cn	0.86	0.13
100-42-5	Styrene	104.15	0.29	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.8		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	8.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA5-E14 Lab Sample ID: 140-1063-2
 Matrix: Air Lab File ID: JC18P205.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:40
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 23:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D
 Lims ID: 140-1063-A-2 Lab Sample ID: 140-1063-2
 Client ID: IA5-E14
 Sample Type: Client
 Inject. Date: 18-Mar-2014 23:43:30 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-2
 Misc. Info.: J031814,TO15,,140-0000527-011
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:56:39 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: liul

Date: 20-Mar-2014 14:56:39

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.384	9.388	-0.004	90	379483	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.539	-0.003	94	1809160	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.198	0.002	86	1510580	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.819	17.817	0.002	91	1003098	3.75	
7 Propene	41	3.988	3.971	0.017	95	102245	0.8787	
8 Dichlorodifluoromethane	85	4.031	4.030	0.001	96	63024	0.1677	
9 Chloromethane	52	4.230	4.229	0.001	96	10109	0.2367	
17 Ethanol	31	5.123	5.116	0.007	94	1198848	39.3	
19 2-Methylbutane	43	5.414	5.407	0.007	93	166401	1.03	
20 Trichlorofluoromethane	101	5.645	5.644	0.001	88	26522	0.0803	
23 Acetone	58	5.763	5.767	-0.004	98	145527	2.70	
24 Isopropyl alcohol	45	5.855	5.848	0.007	92	278112	1.95	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.586	6.580	0.006	60	5816	0.0254	
31 Methylene Chloride	84	6.753	6.757	-0.004	91	28658	0.2823	
35 2-Methylpentane	43	7.625	7.623	0.002	87	27963	0.0955	
39 2-Butanone (MEK)	72	8.598	8.586	0.012	82	8865	0.2468	
40 Hexane	56	8.636	8.635	0.001	89	14236	0.1395	
43 Chloroform	83	9.400	9.393	0.007	42	10102	0.0457	
48 Benzene	78	11.019	11.023	-0.004	95	50190	0.1617	
49 Cyclohexane	69	11.035	11.034	0.001	83	9334	0.1524	
50 Carbon tetrachloride	117	11.046	11.050	-0.004	77	6584	0.0257	
53 Isooctane	57	11.761	11.760	0.001	77	17216	0.0325	
54 n-Heptane	71	12.122	12.120	0.002	79	8183	0.0745	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.368	0.013	84	7403	0.0390	
65 Toluene	91	14.252	14.256	-0.004	93	238187	0.8500	
73 Tetrachloroethene	129	15.382	15.386	-0.004	83	13974	0.1070	
76 Ethylbenzene	91	16.528	16.532	-0.004	67	14063	0.0454	
78 m-Xylene & p-Xylene	91	16.684	16.688	-0.004	96	32430	0.1298	
80 Styrene	104	17.146	17.150	-0.004	32	4691	0.0273	
82 o-Xylene	91	17.211	17.215	-0.004	72	12890	0.0509	
88 4-Ethyltoluene	105	18.459	18.447	0.012	1	9722	0.0289	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.943	18.942	0.001	72	11532	0.0393	
97 1,4-Dichlorobenzene	146	19.298	19.297	0.001	65	5582	0.0311	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Worklist Smp#: 11

Client ID: IA5-E14

Purge Vol: 500.000 mL

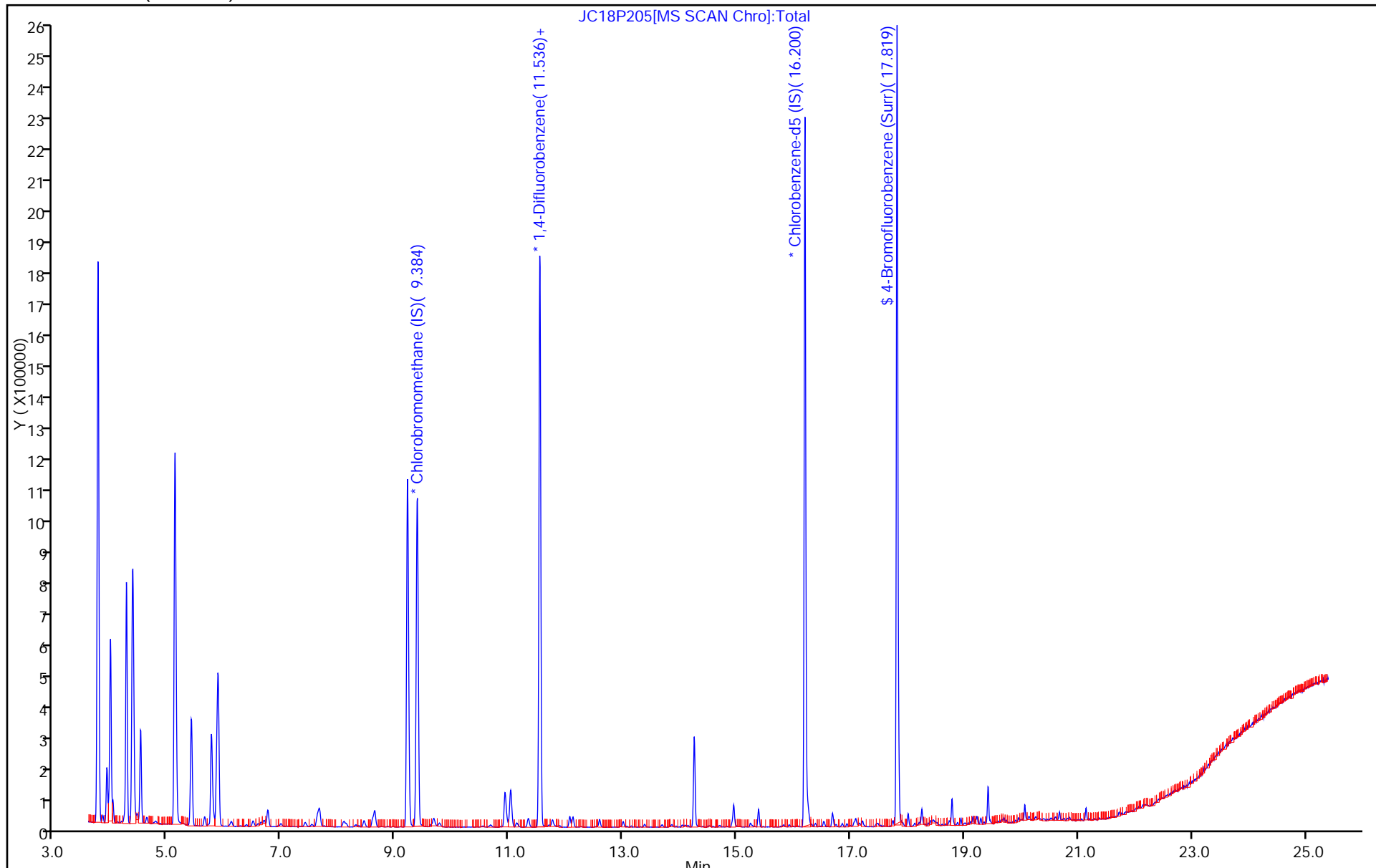
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

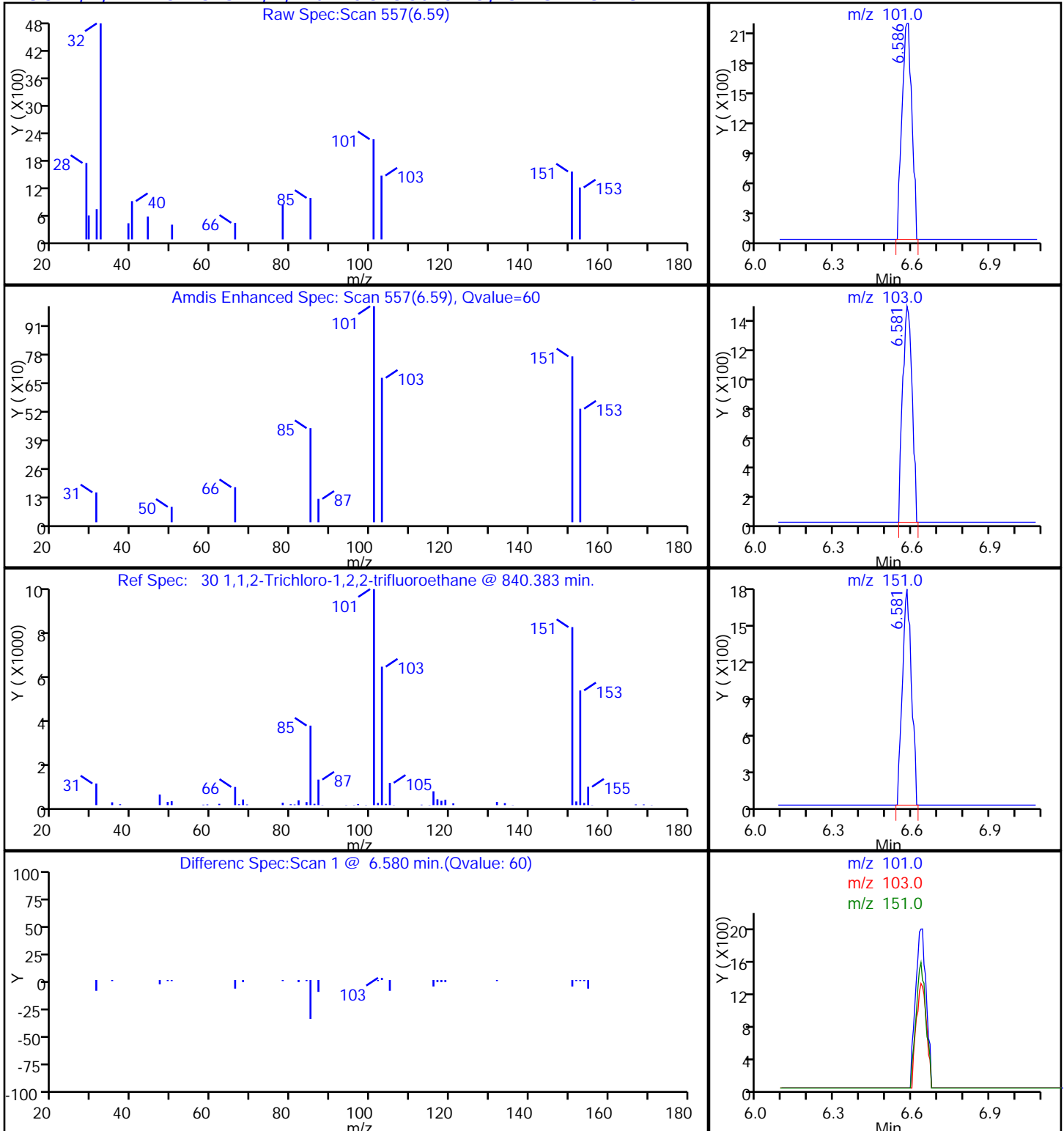
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

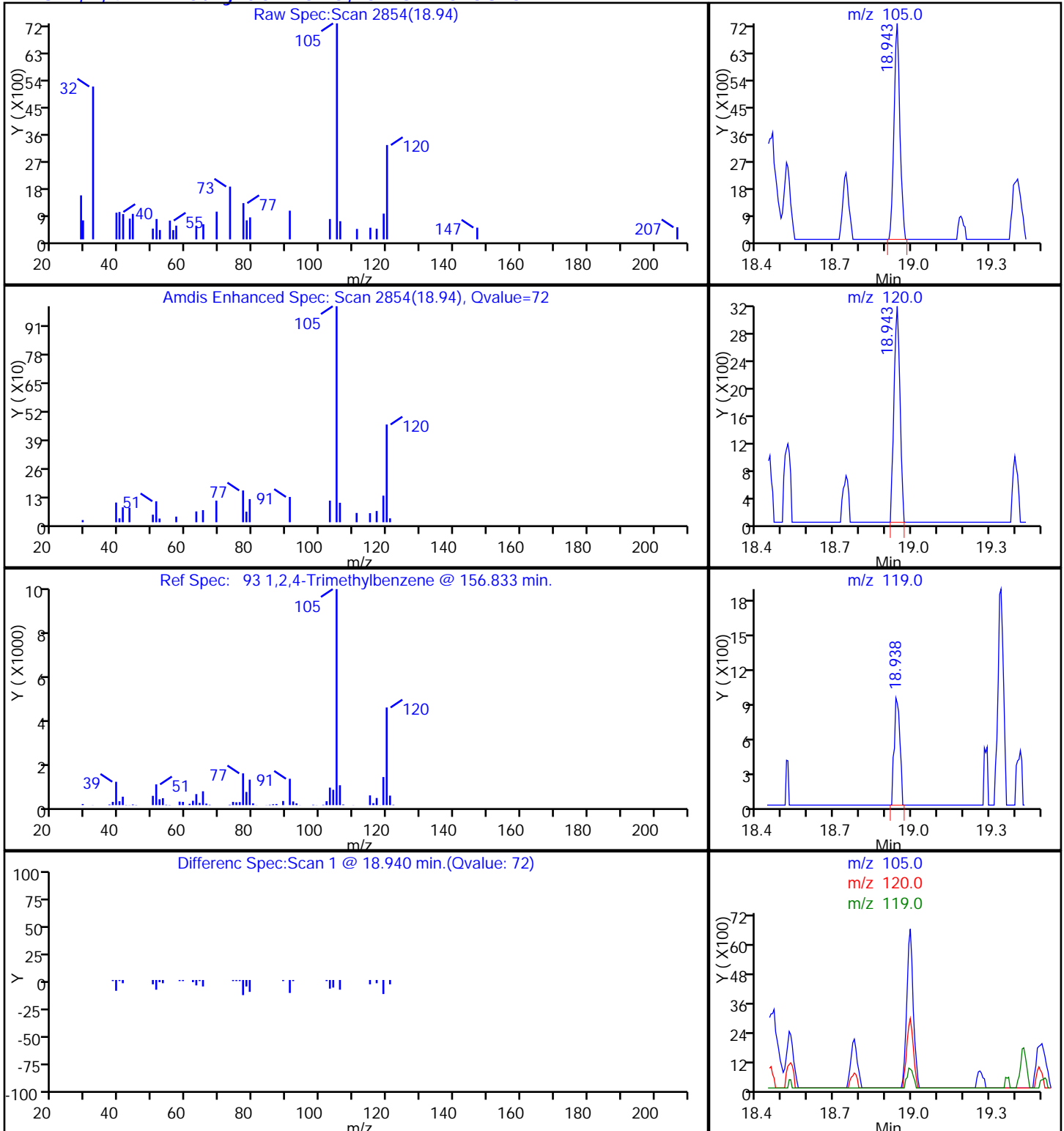
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

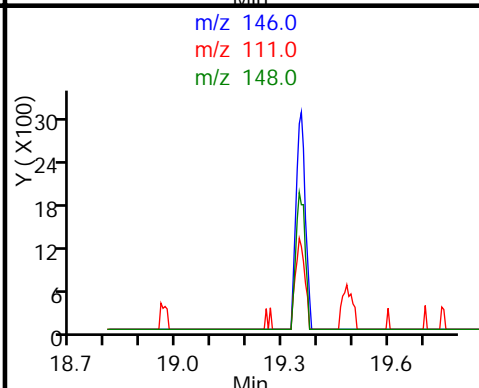
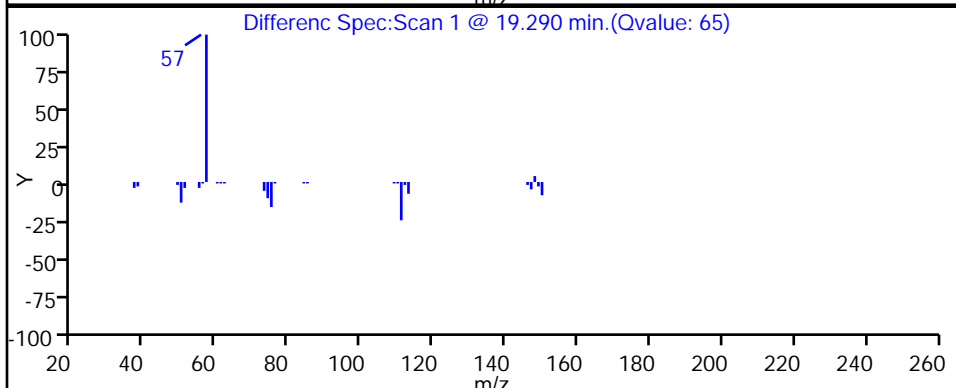
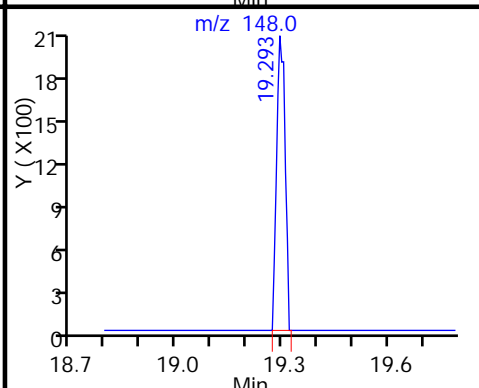
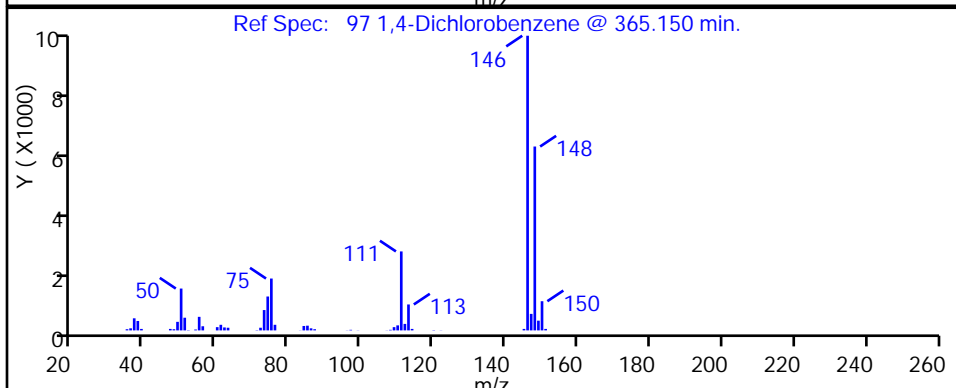
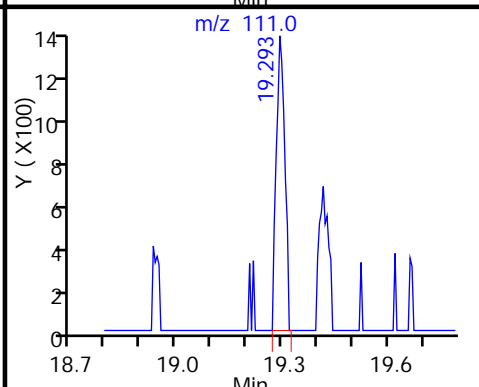
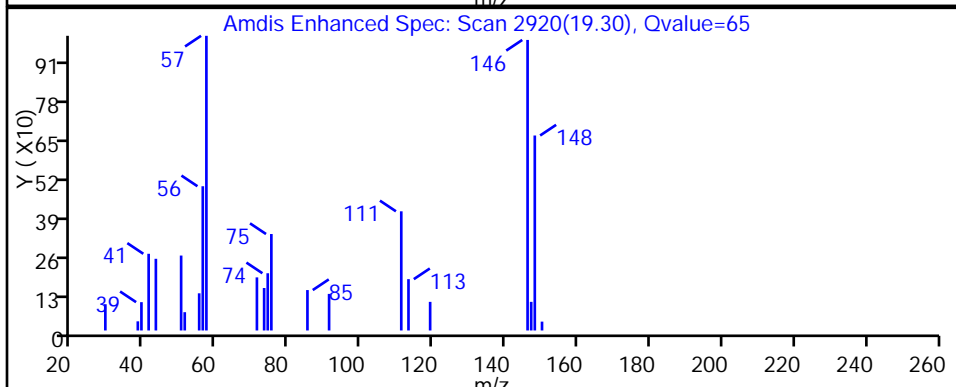
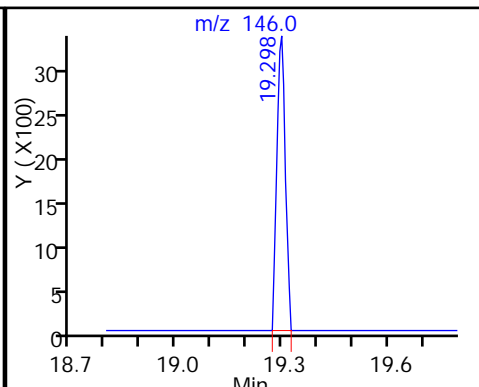
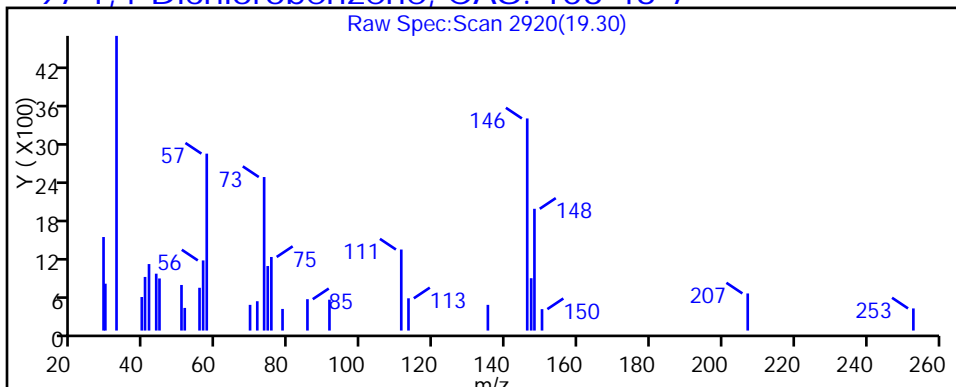
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

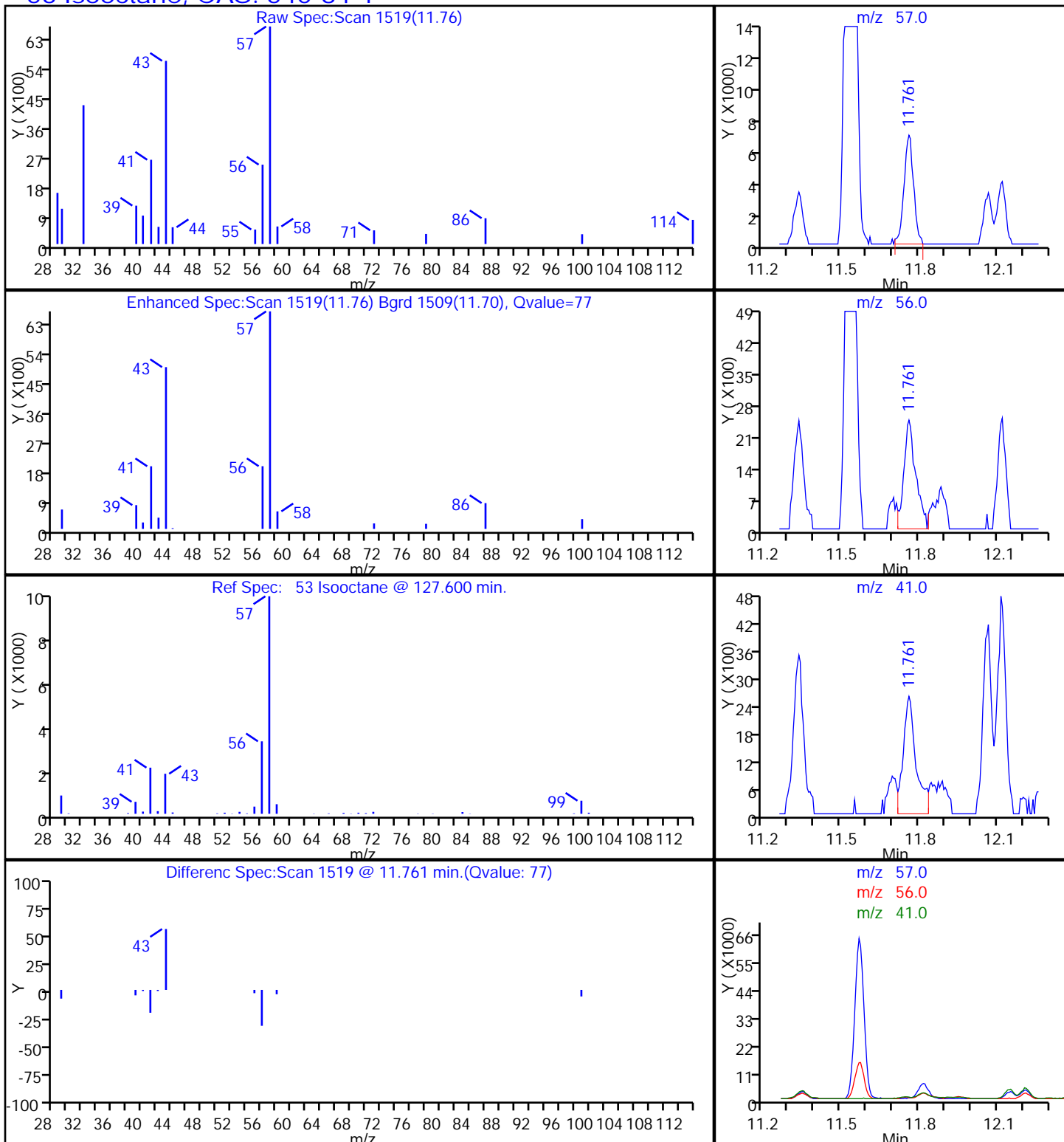
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

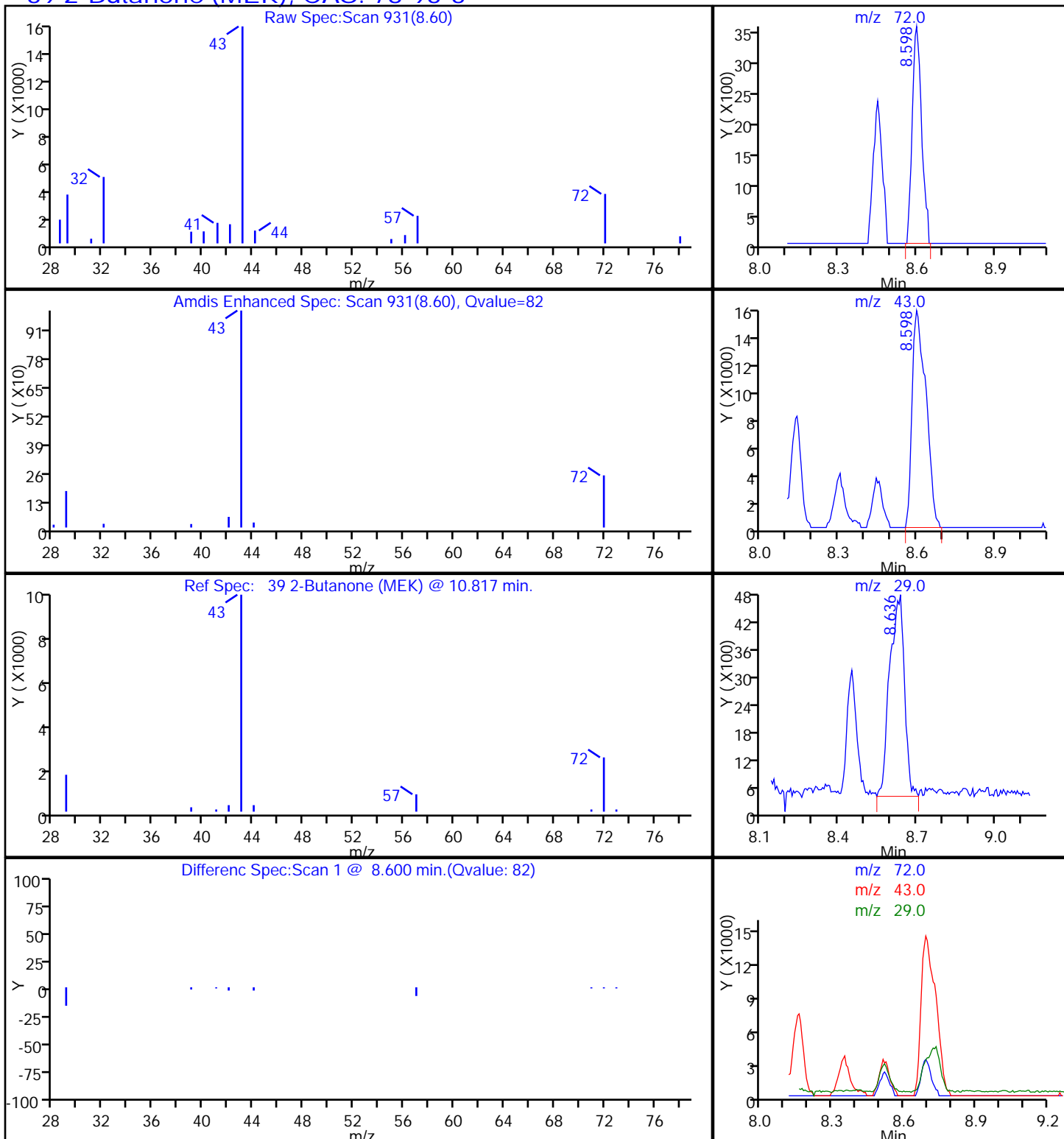
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

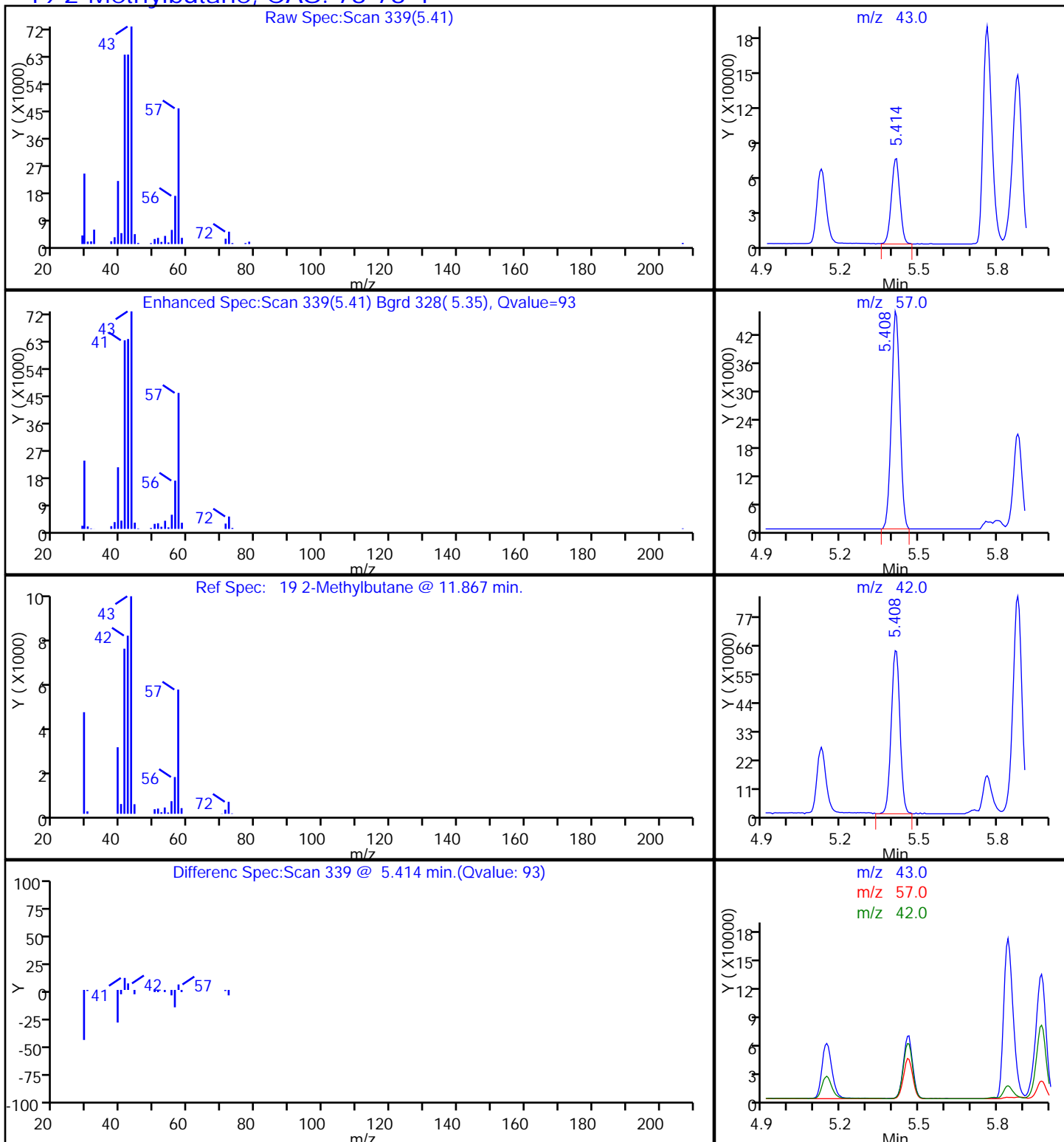
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

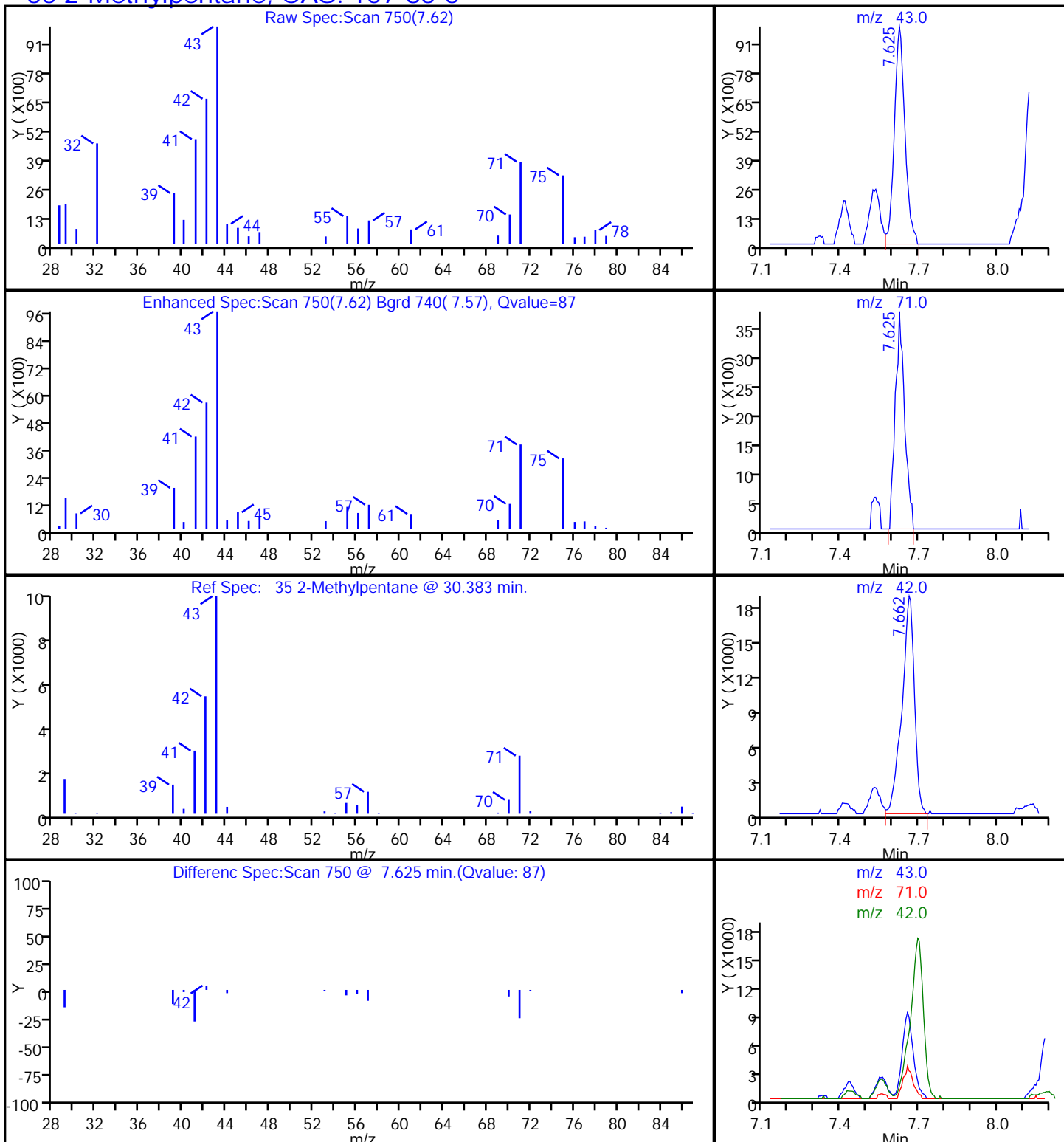
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

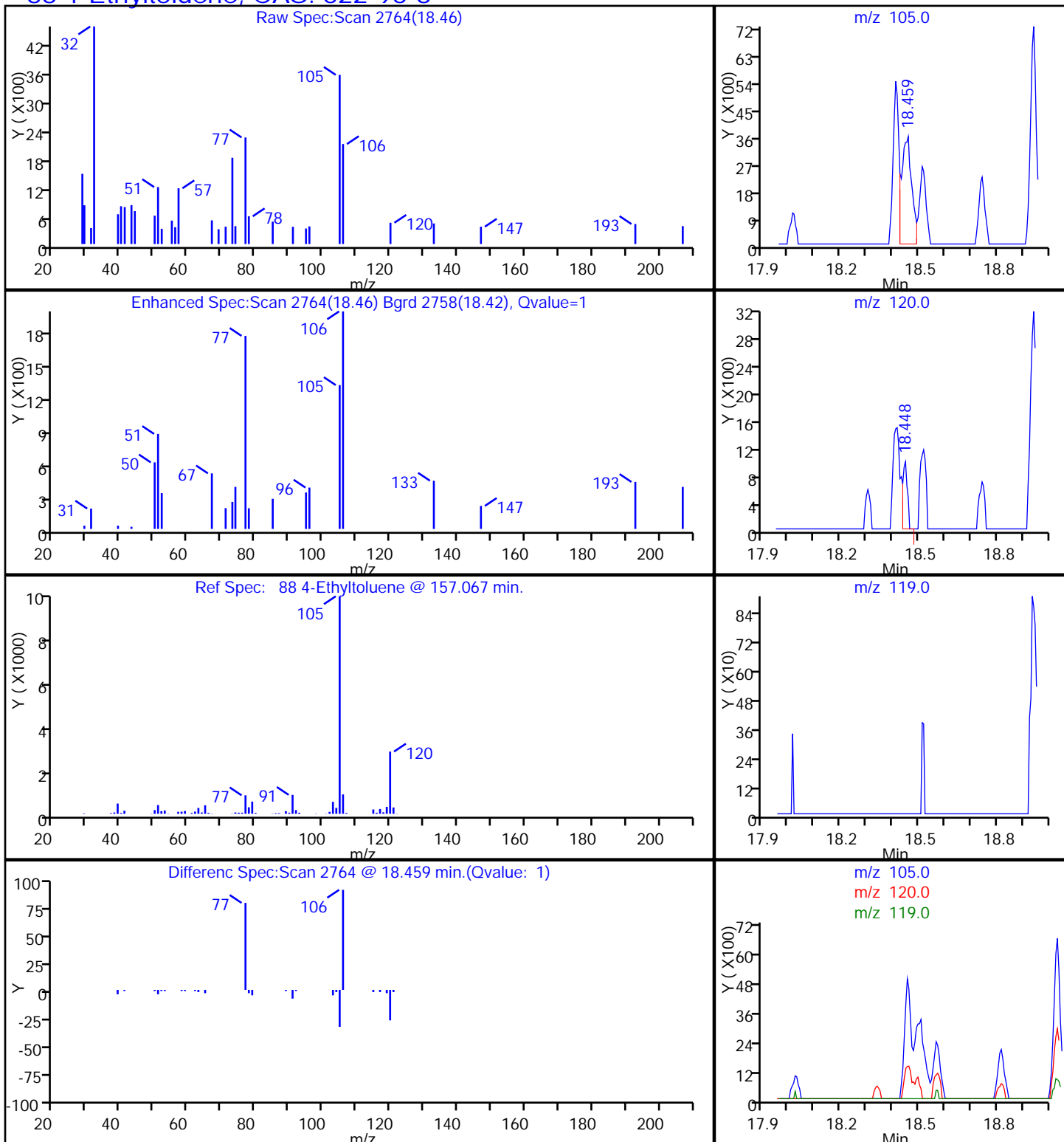
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

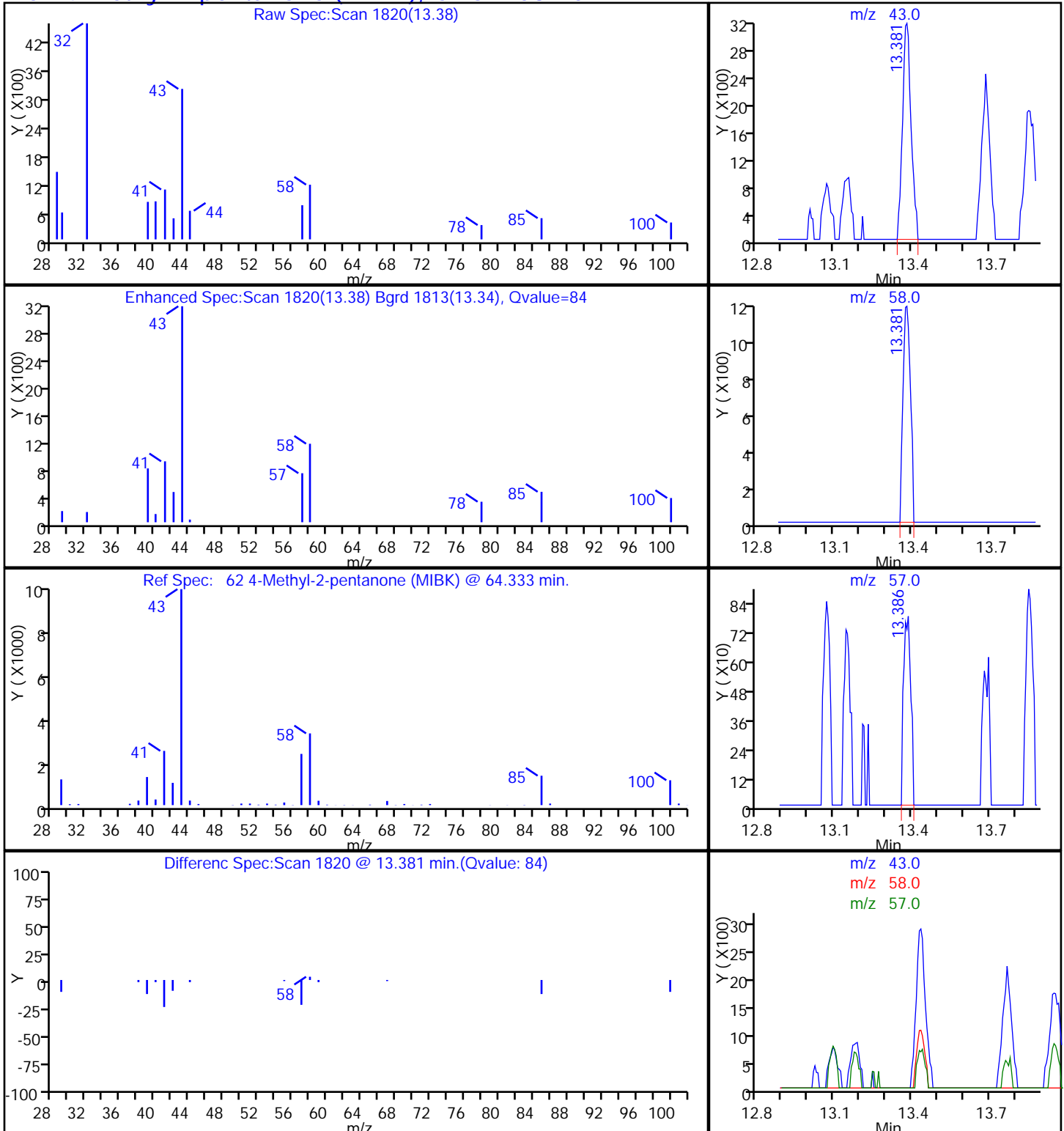
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

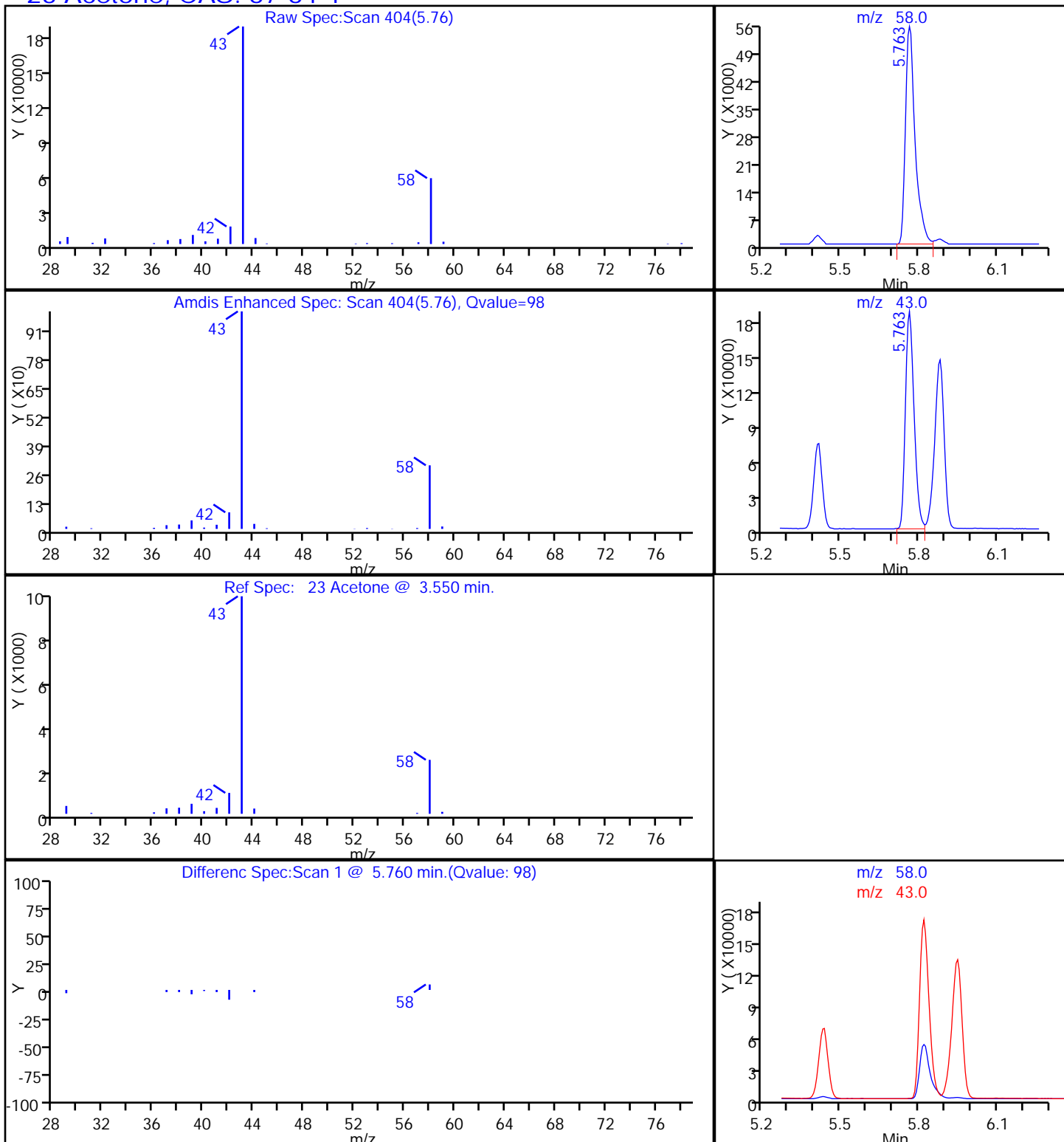
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

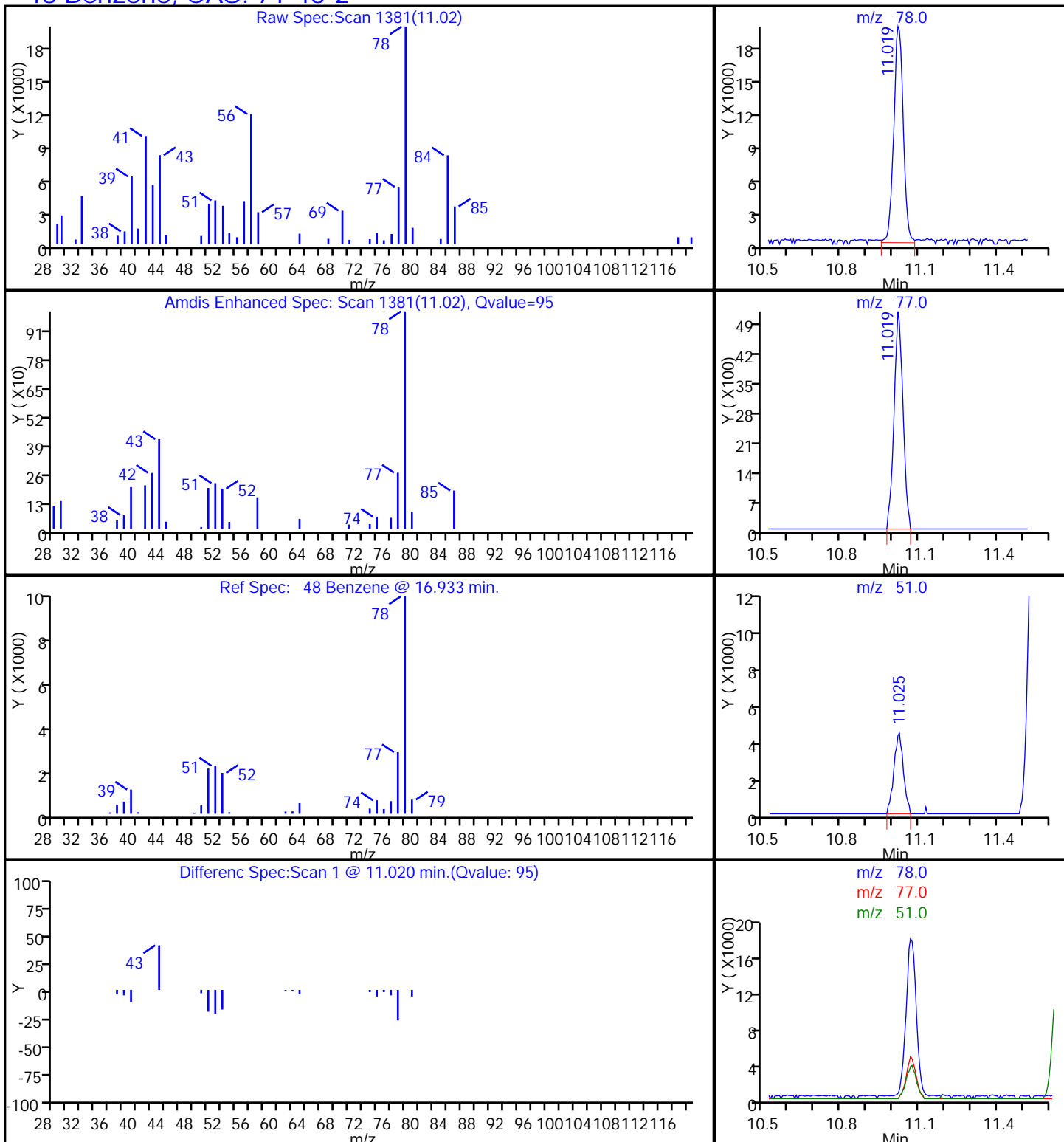
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

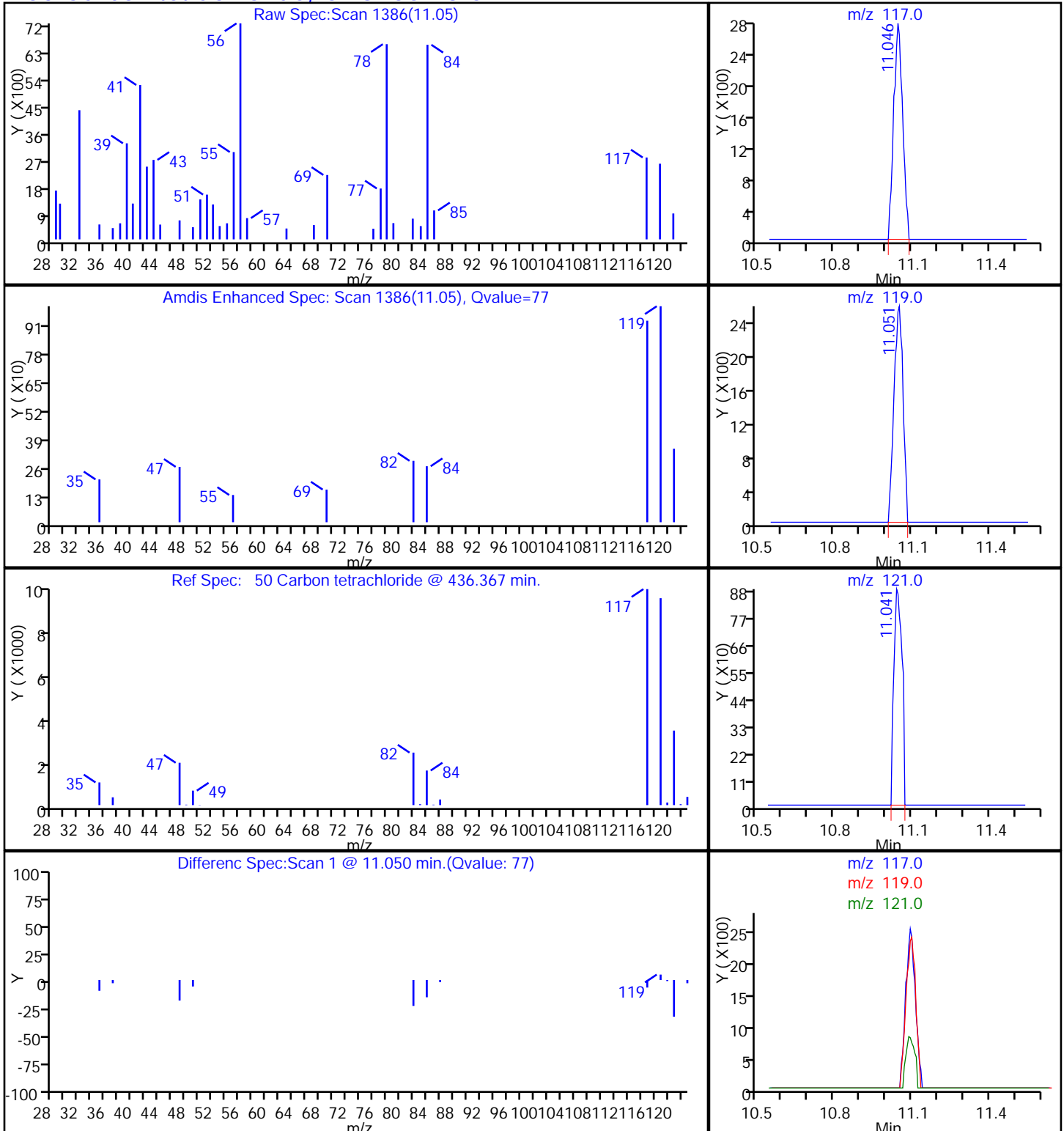
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

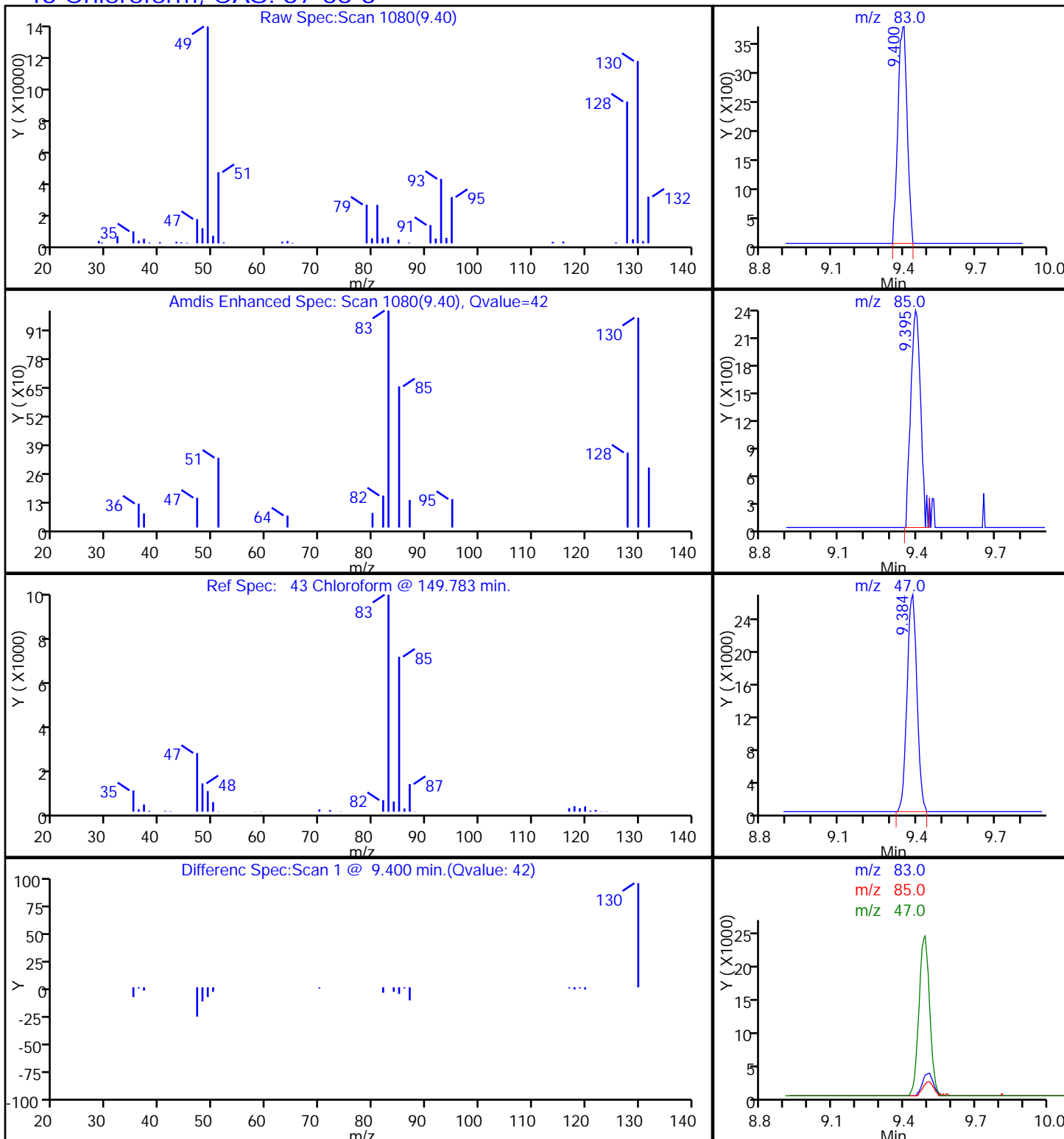
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

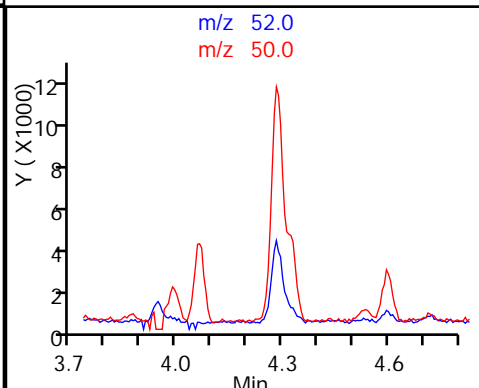
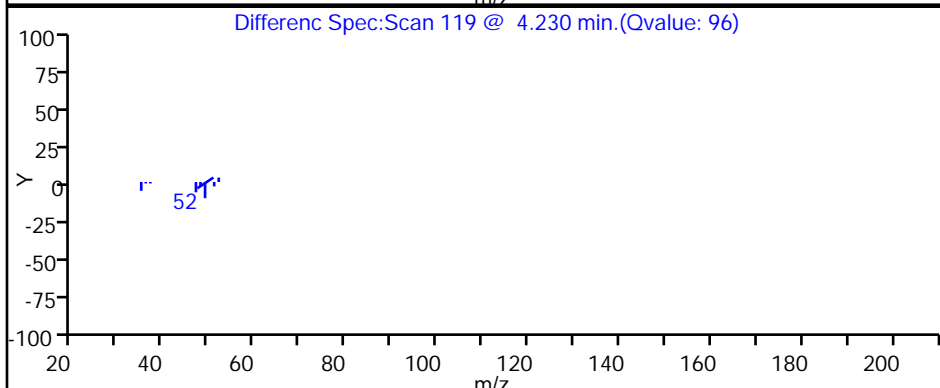
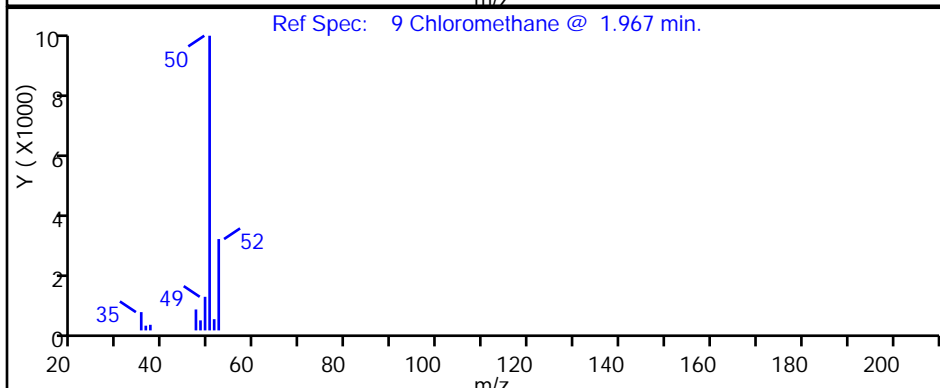
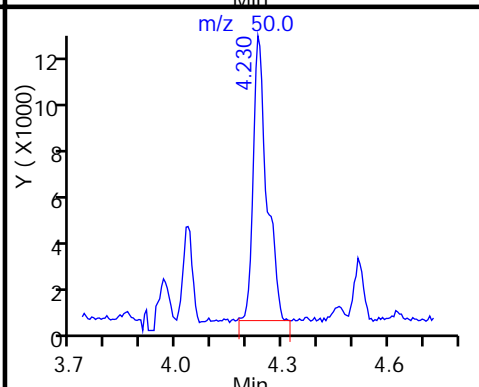
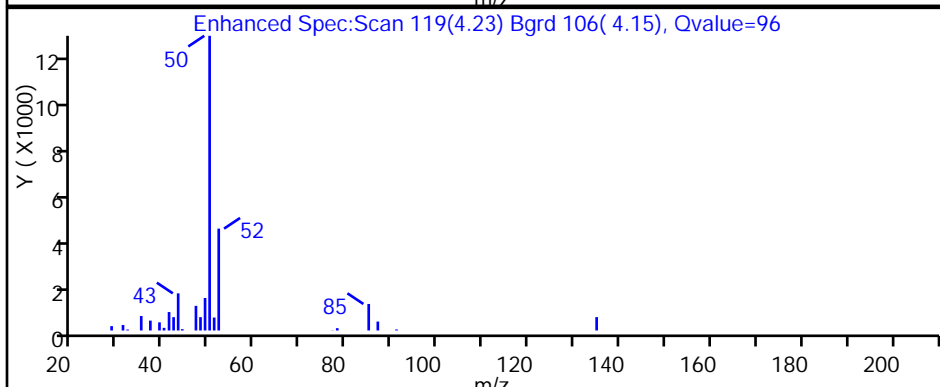
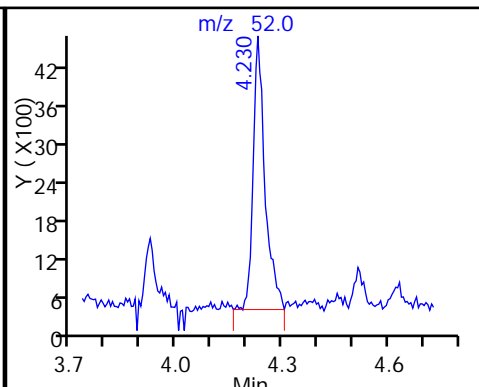
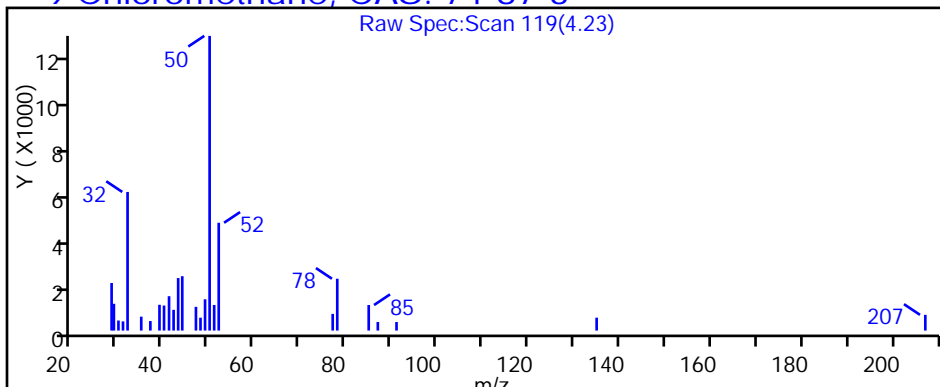
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

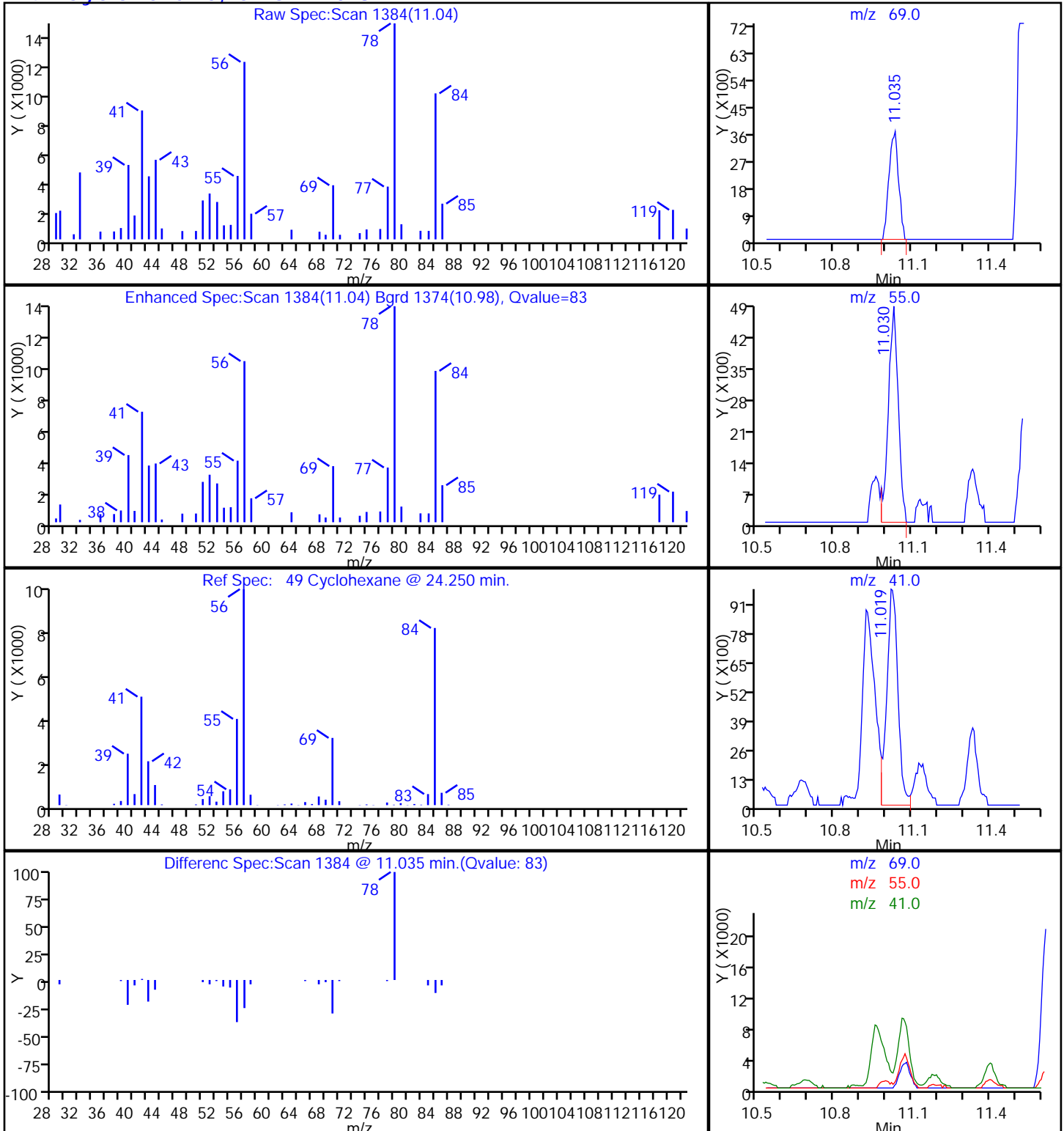
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

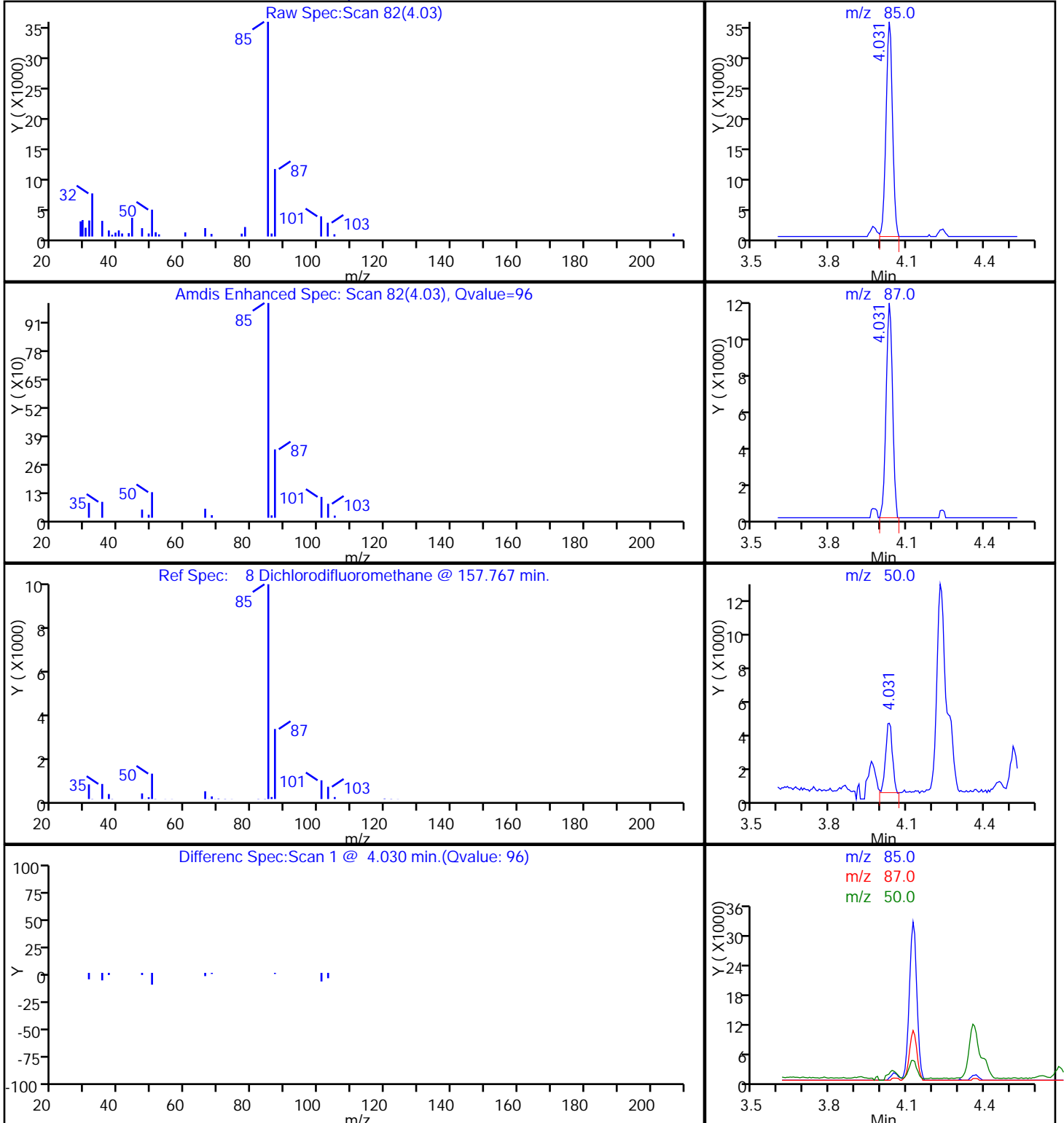
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

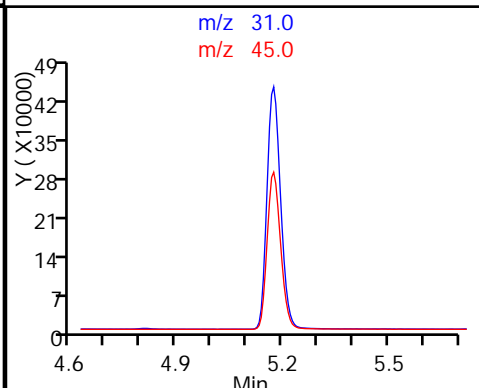
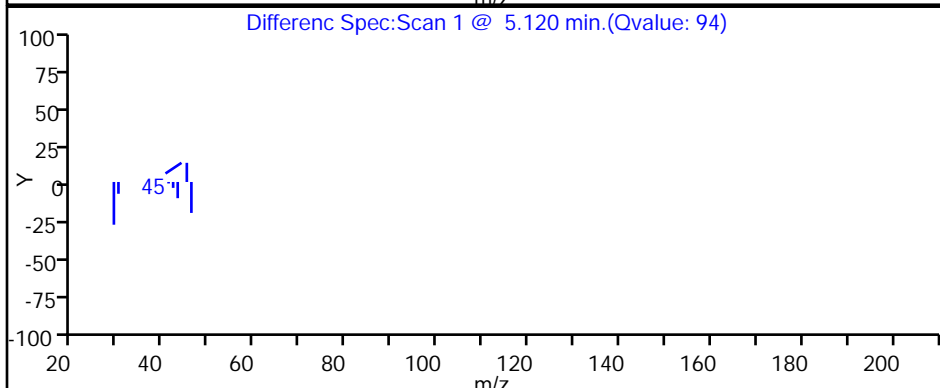
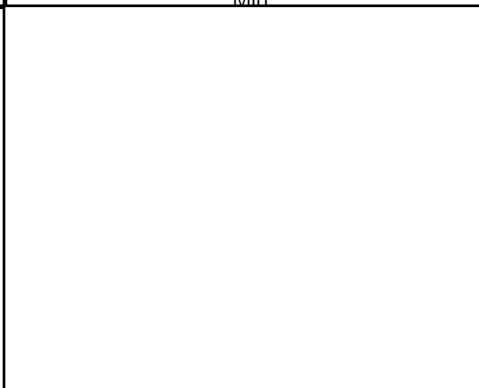
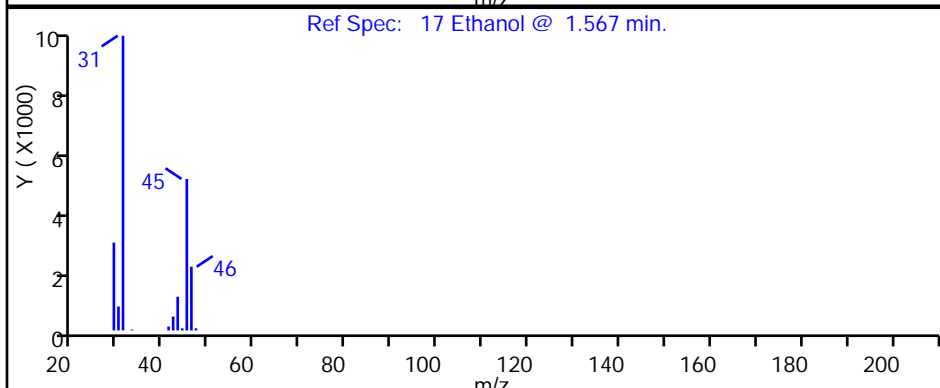
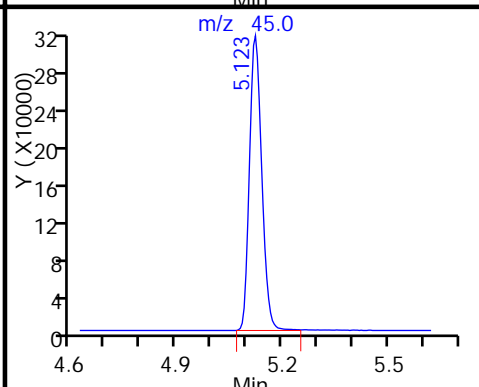
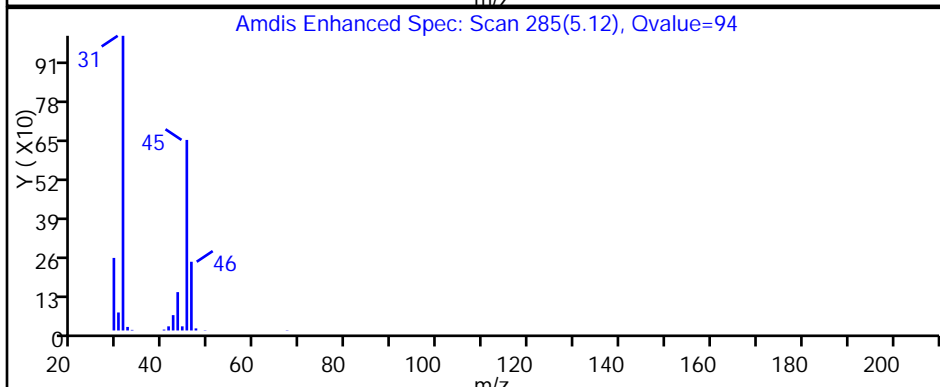
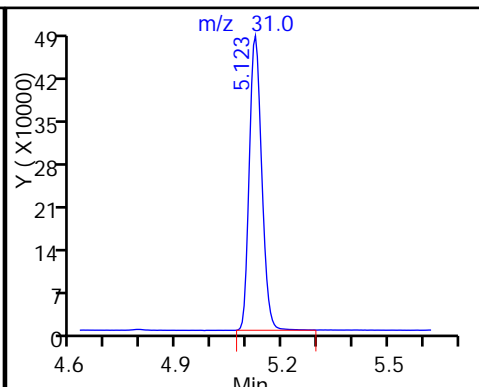
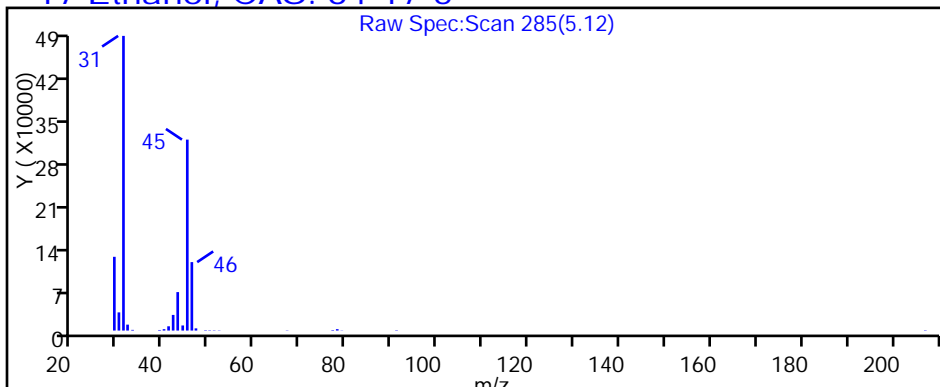
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

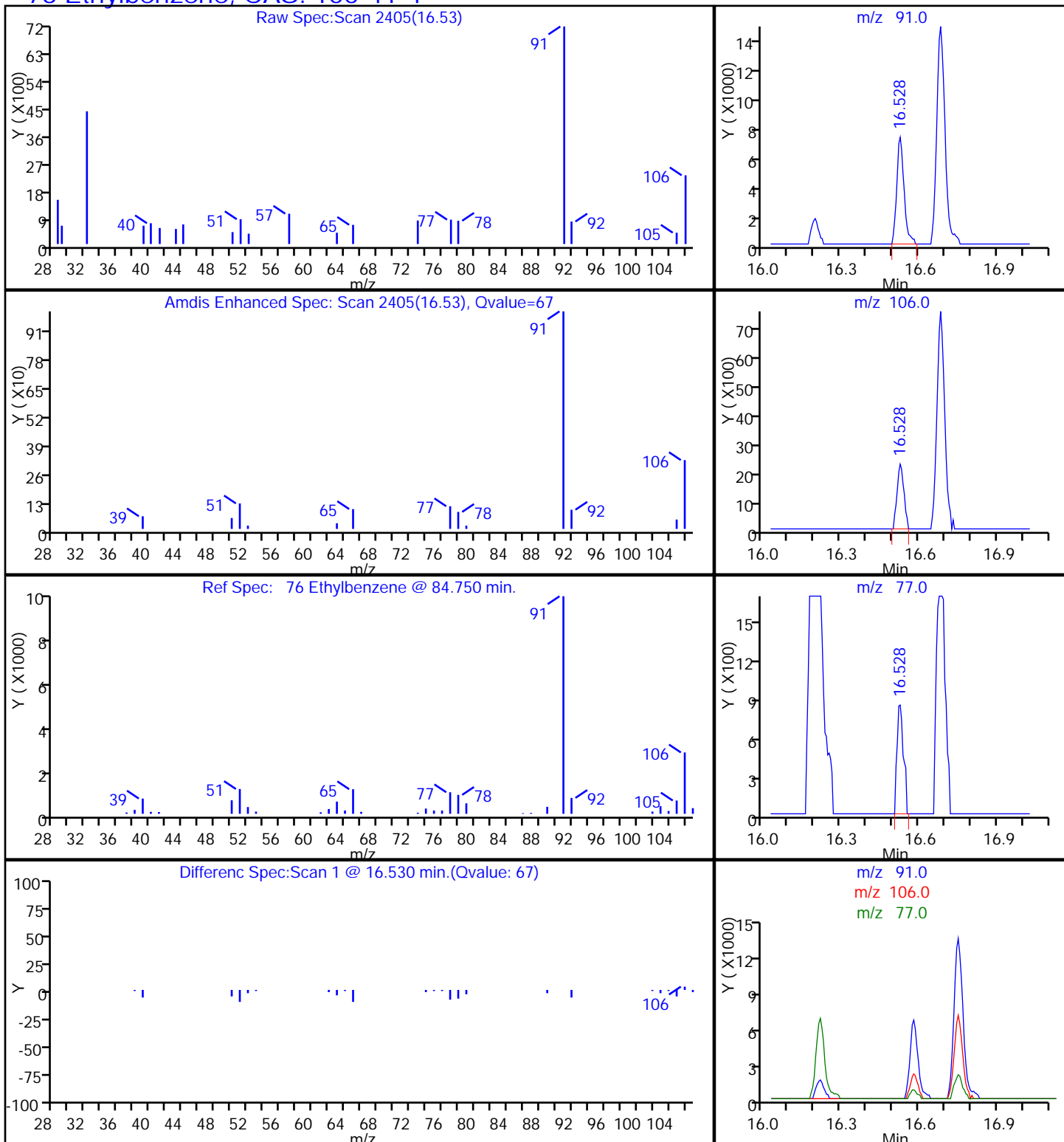
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

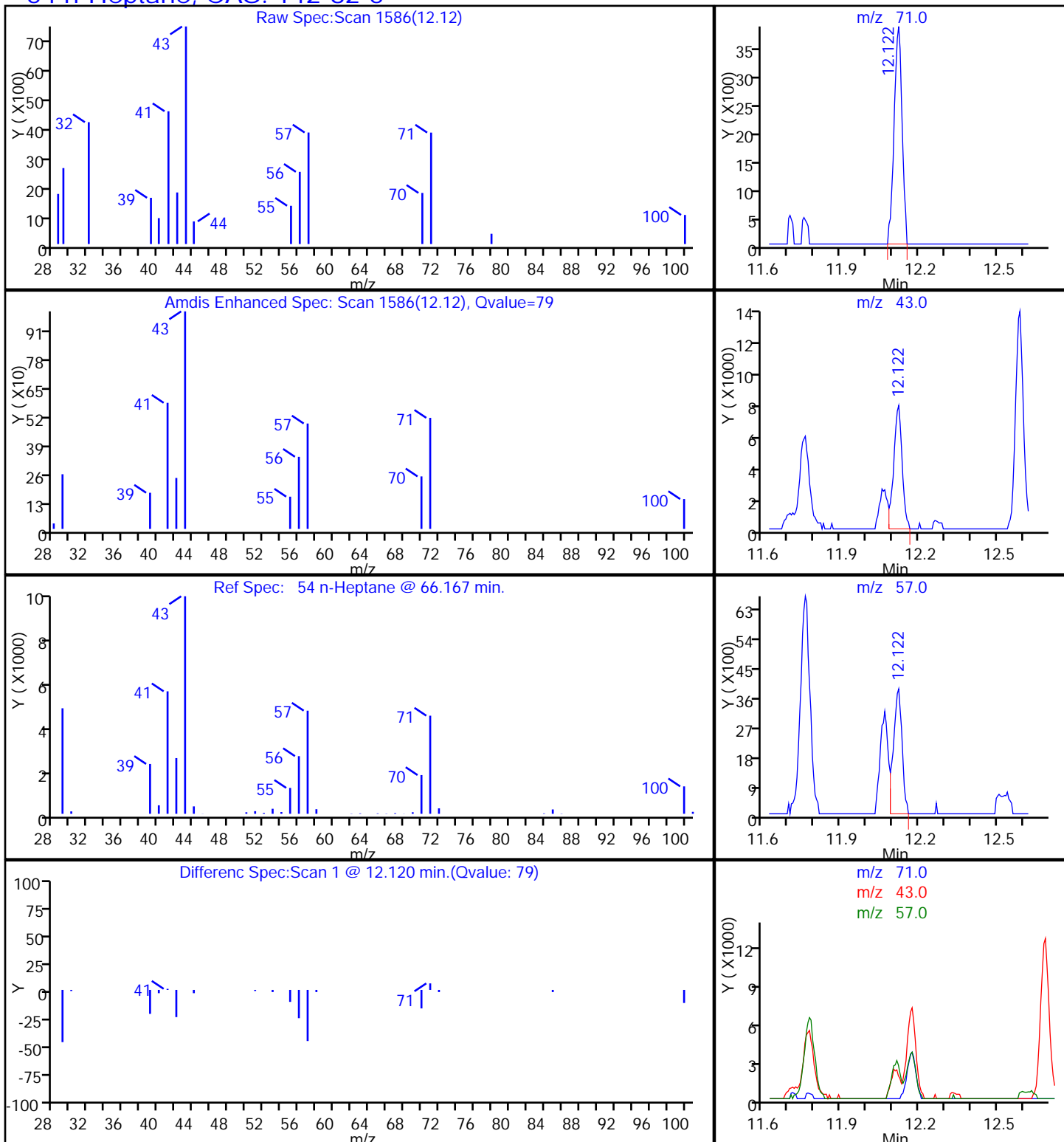
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

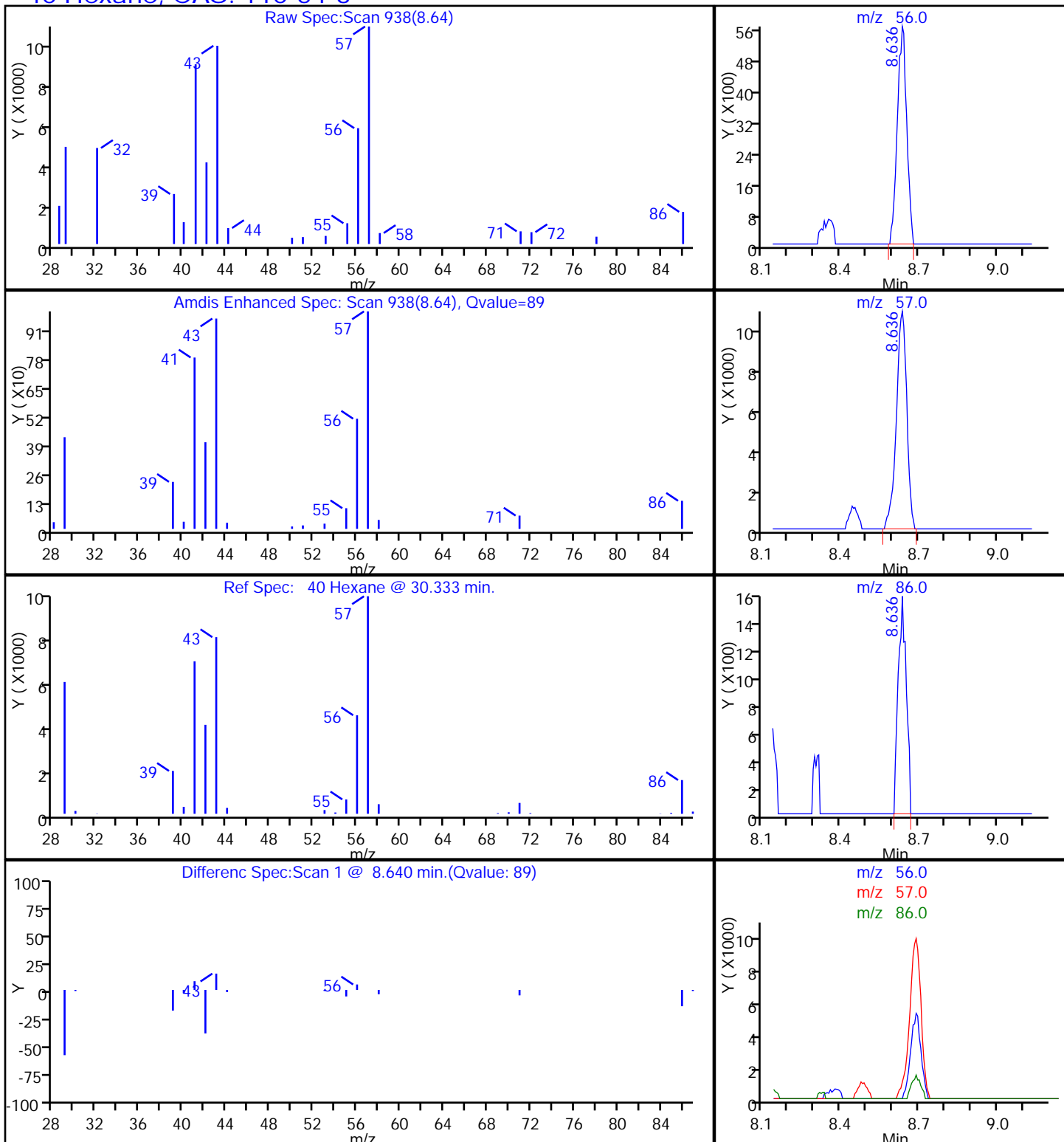
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

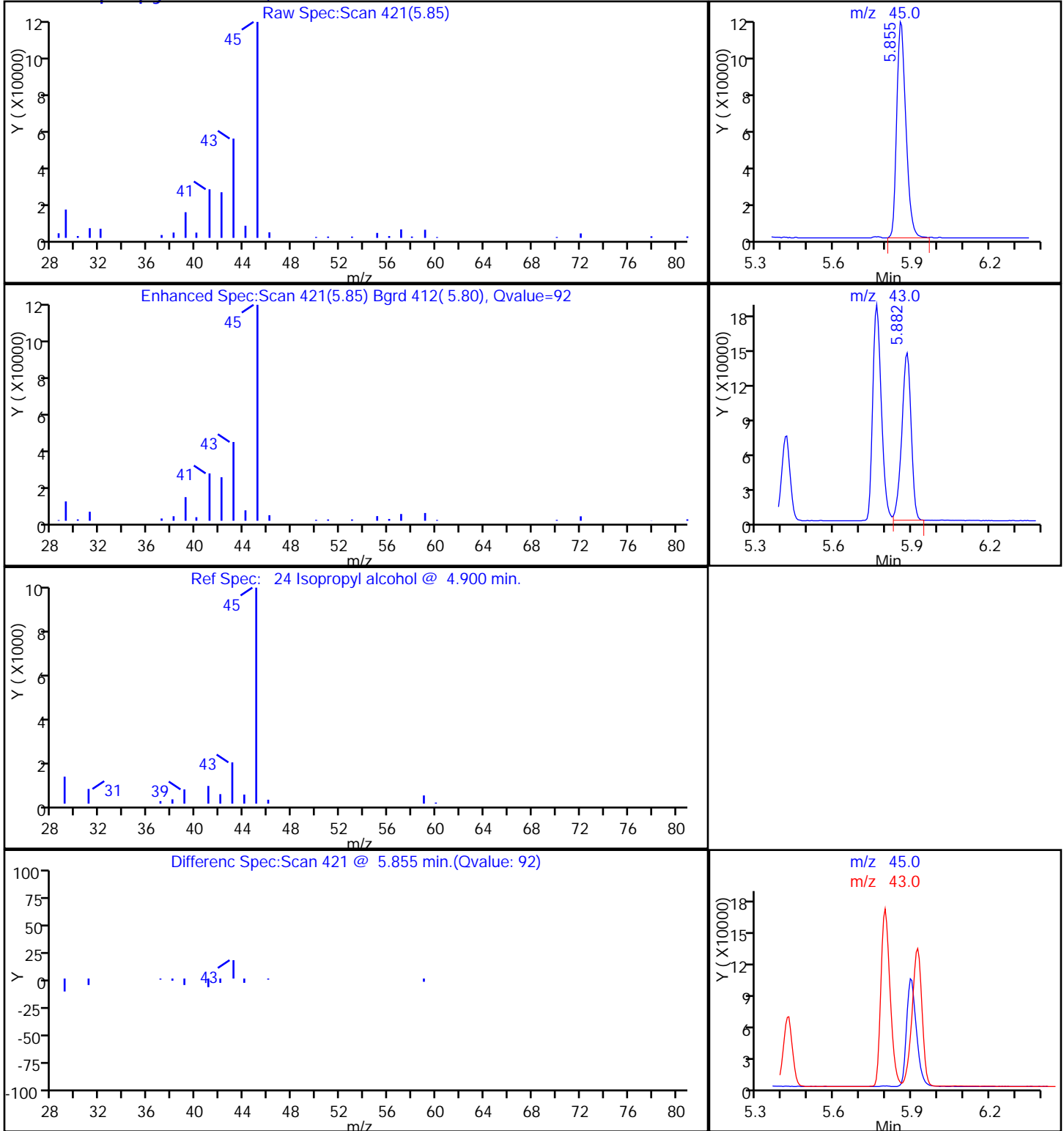
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

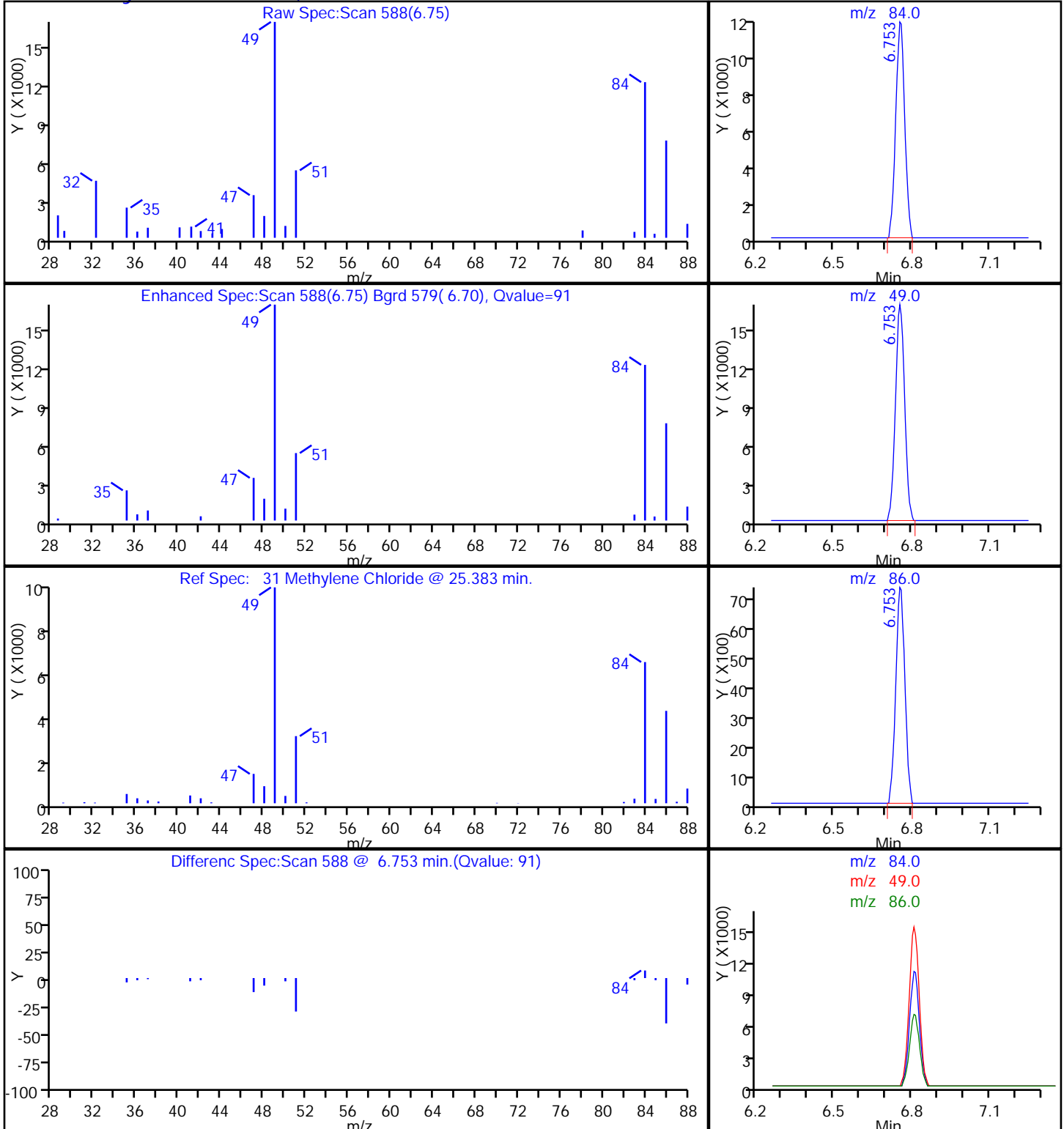
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

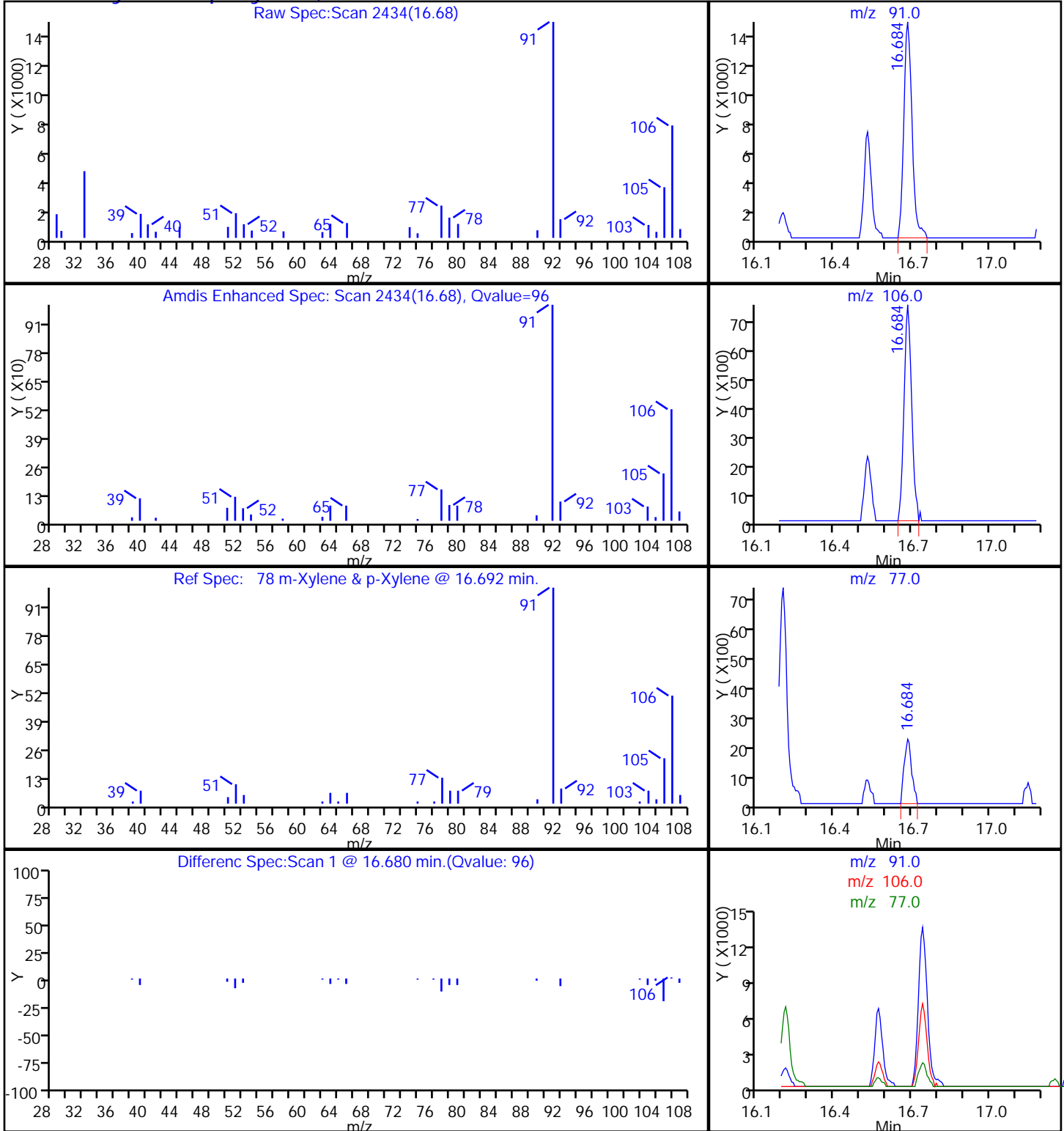
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

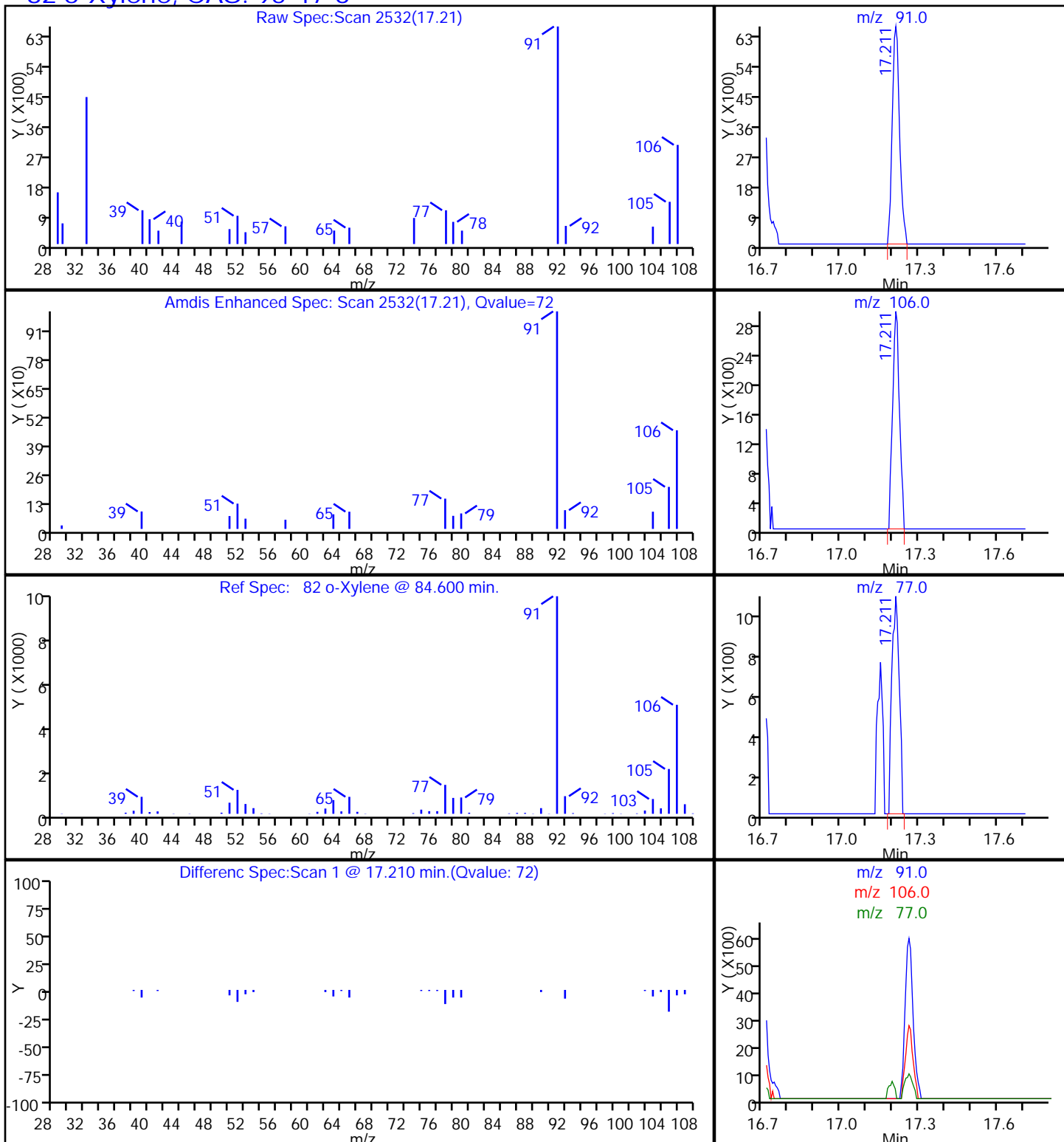
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

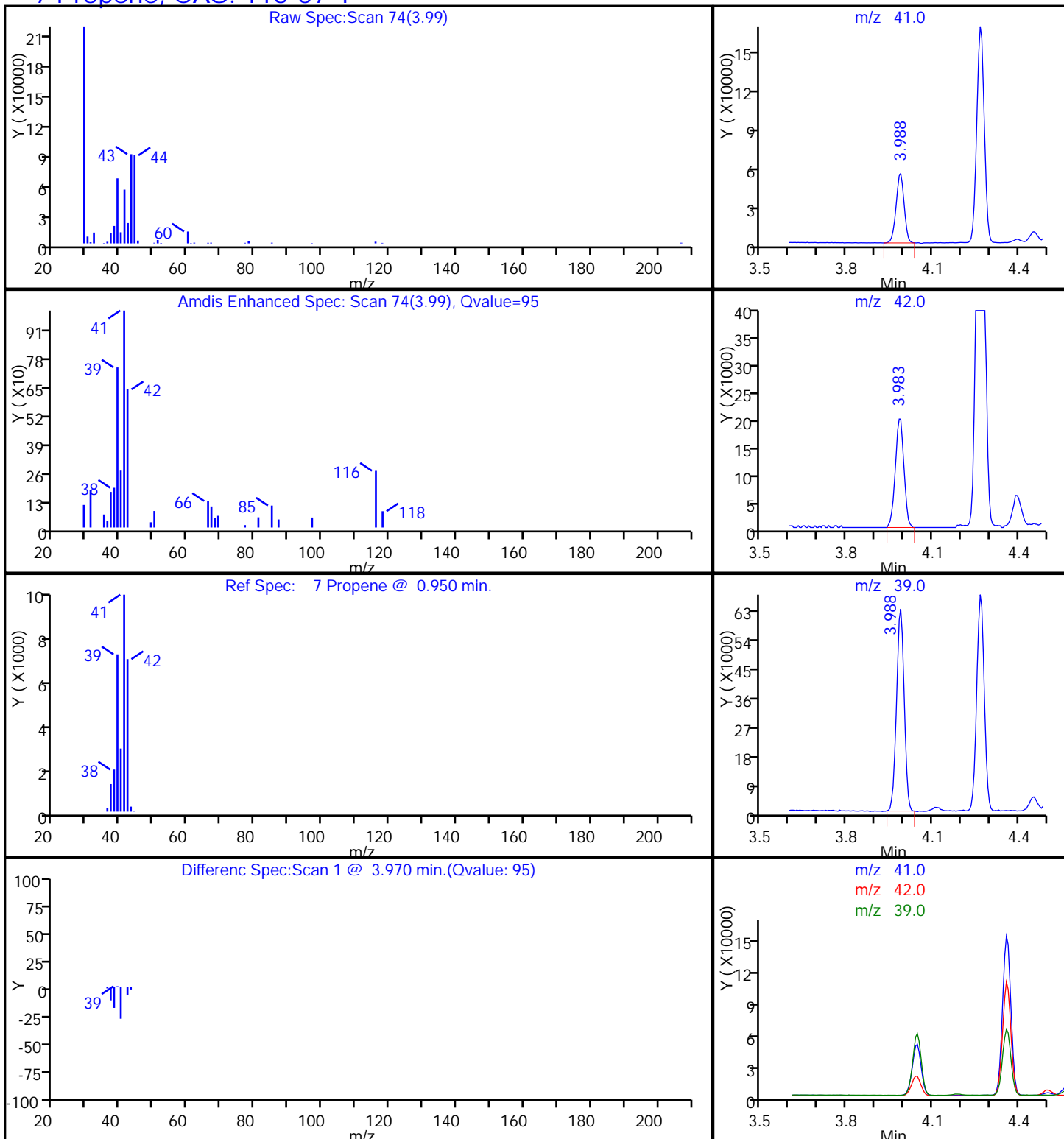
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

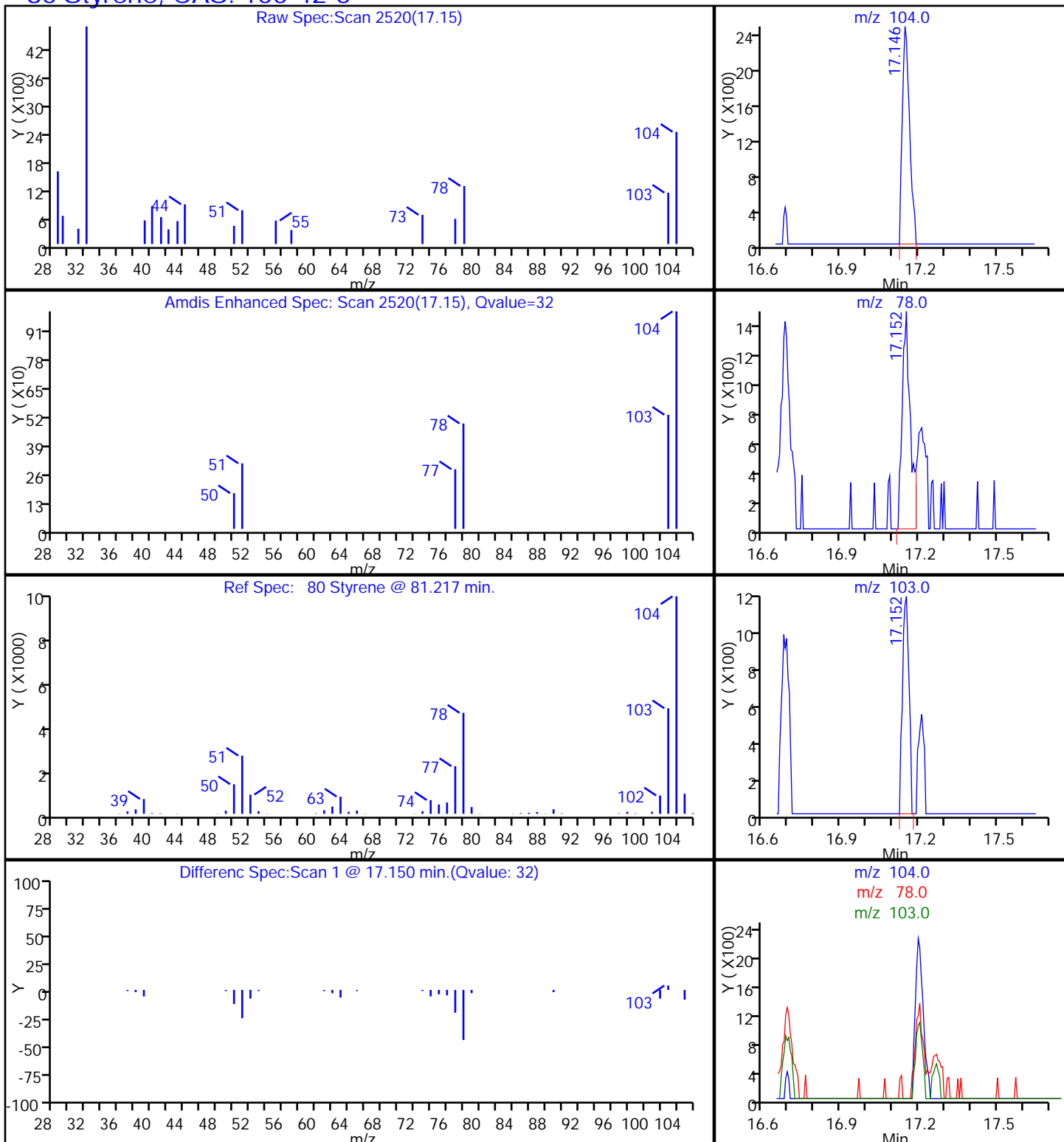
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

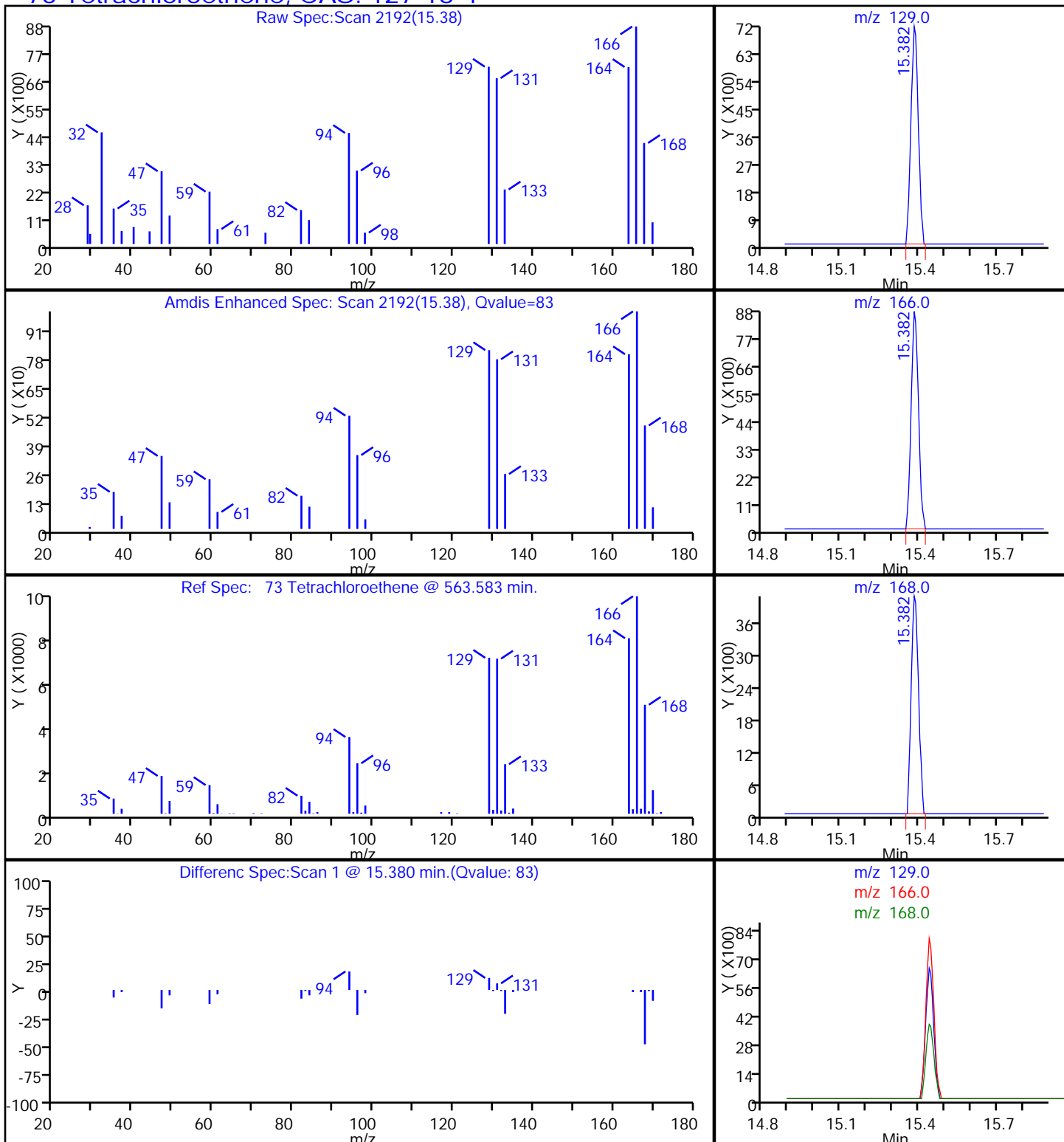
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

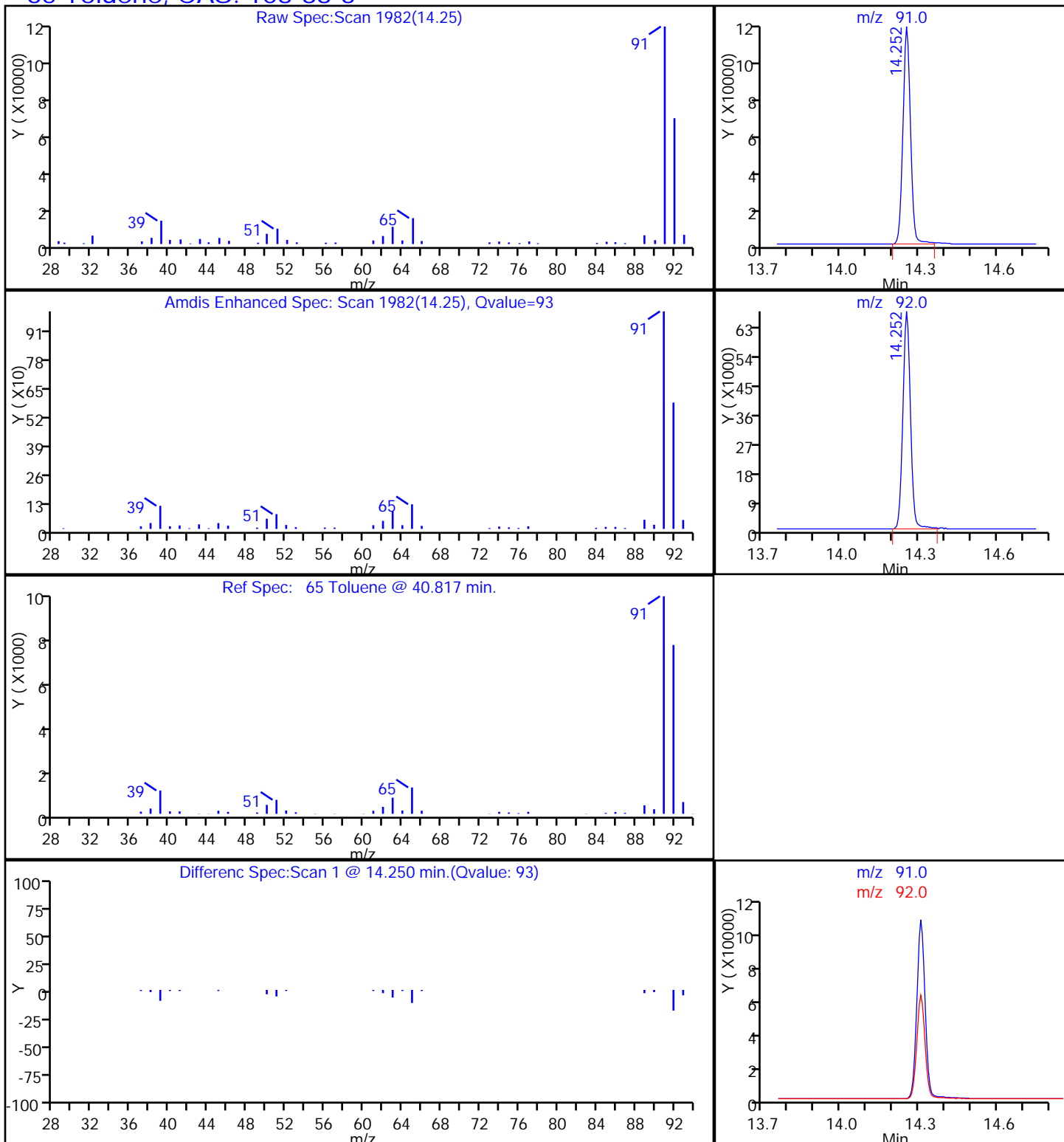
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P205.D

Injection Date: 18-Mar-2014 23:43:30

Instrument ID: MJ

Lims ID: 140-1063-A-2

Lab Sample ID: 140-1063-2

Client ID: IA5-E14

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

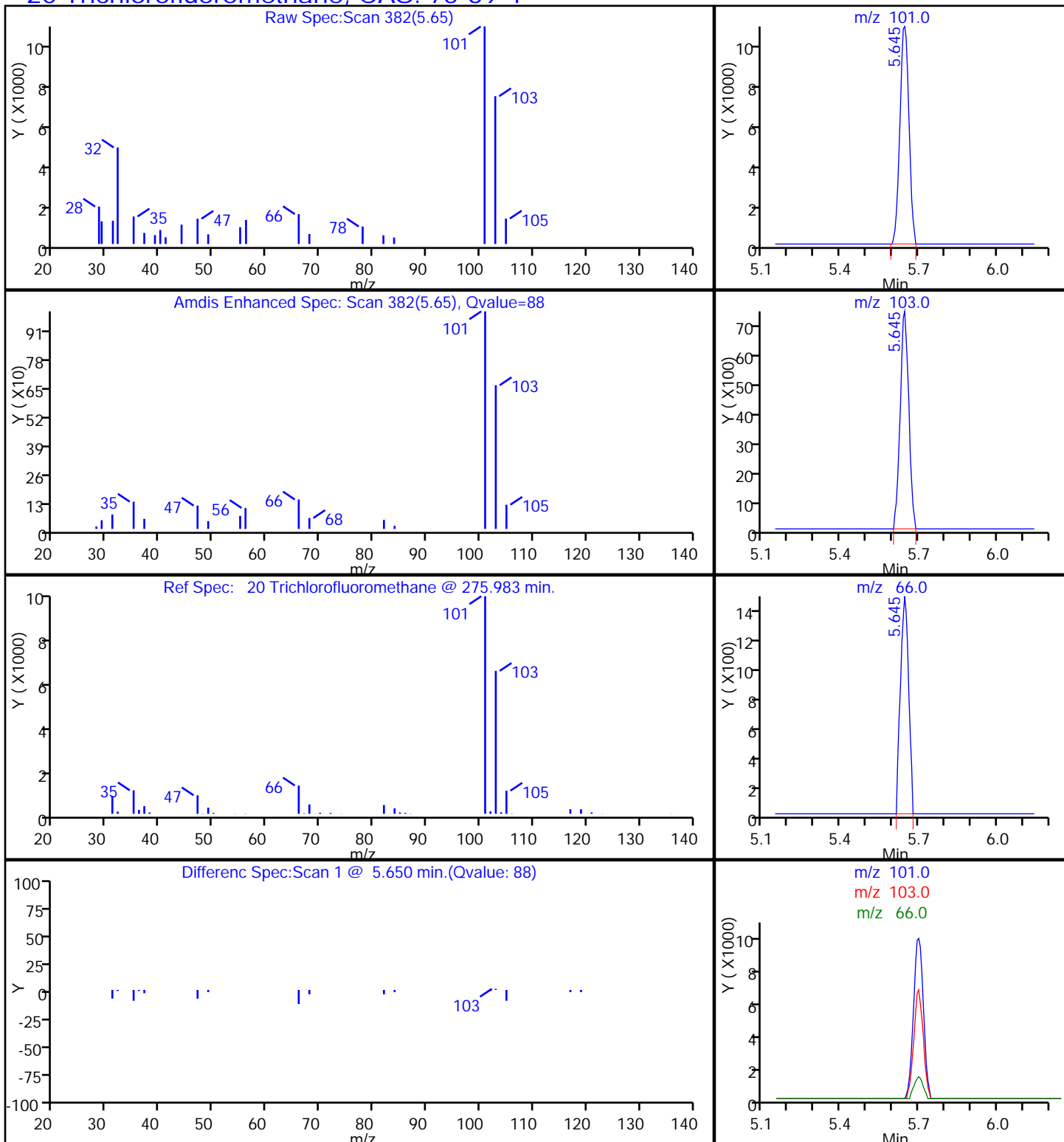
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3
 Matrix: Air Lab File ID: JC18P206.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.065	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.066	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.095	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.35	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.44	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.14	J	0.50	0.045
67-64-1	Acetone	58.08	2.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.30		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3
 Matrix: Air Lab File ID: JC18P206.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.064	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.095	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.50		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.41		0.20	0.068
64-17-5	Ethanol	46.07	35		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.073	J	0.20	0.068
142-82-5	Heptane	100.21	0.074	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.28	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.22		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.086	J	0.20	0.061
115-07-1	Propene	42.08	0.97	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.25		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.42		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.19	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3
 Matrix: Air Lab File ID: JC18P206.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 00:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3
 Matrix: Air Lab File ID: JC18P206.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.32	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.15	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.44	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.0	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.3	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.56	J	2.0	0.18
67-64-1	Acetone	58.08	6.5	J	12	3.3
71-43-2	Benzene	78.11	0.95		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3
 Matrix: Air Lab File ID: JC18P206.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 00:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.47	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.0		0.99	0.34
64-17-5	Ethanol	46.07	66		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.32	J	0.87	0.30
142-82-5	Heptane	100.21	0.30	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.51	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.9	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.99	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.95		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.37	J	0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.7		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA6-E14 Lab Sample ID: 140-1063-3
 Matrix: Air Lab File ID: JC18P206.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 00:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D
 Lims ID: 140-1063-A-3 Lab Sample ID: 140-1063-3
 Client ID: IA6-E14
 Sample Type: Client
 Inject. Date: 19-Mar-2014 00:36:30 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-3
 Misc. Info.: J031814,TO15,,140-0000527-012
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 13:01:27 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:01:27

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.381	9.388	-0.007	93	378406	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1803968	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1499805	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	91	1003486	3.78	
7 Propene	41	3.975	3.971	0.004	92	45225	0.3898	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	61184	0.1632	
9 Chloromethane	52	4.228	4.229	-0.001	99	8510	0.1999	
14 Butadiene	54	4.508	4.514	-0.006	26	2569	0.0264	
17 Ethanol	31	5.115	5.116	-0.001	95	423941	14.0	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	28133	0.1750	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	89	24717	0.0751	
23 Acetone	58	5.766	5.767	-0.001	92	58424	1.09	
24 Isopropyl alcohol	45	5.858	5.848	0.010	80	67569	0.4757	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.579	6.580	-0.001	71	5986	0.0262	
31 Methylene Chloride	84	6.751	6.757	-0.006	85	11534	0.1139	
39 2-Butanone (MEK)	72	8.596	8.586	0.010	95	4965	0.1386	
40 Hexane	56	8.639	8.635	0.004	70	5864	0.0576	
43 Chloroform	83	9.387	9.393	-0.006	16	8411	0.0381	
48 Benzene	78	11.022	11.023	-0.001	92	36944	0.1194	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	87	6596	0.0258	
53 Isooctane	57	11.759	11.760	-0.001	85	20114	0.0381	
54 n-Heptane	71	12.114	12.120	-0.006	77	3250	0.0297	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	86	10274	0.0543	
65 Toluene	91	14.255	14.256	-0.001	90	46740	0.1680	
73 Tetrachloroethene	129	15.379	15.386	-0.007	85	13158	0.1015	
76 Ethylbenzene	91	16.525	16.532	-0.007	44	8951	0.0291	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	90	21612	0.0872	
82 o-Xylene	91	17.214	17.215	-0.001	71	8673	0.0345	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	47	7593	0.0261	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Worklist Smp#: 12

Client ID: IA6-E14

Purge Vol: 500.000 mL

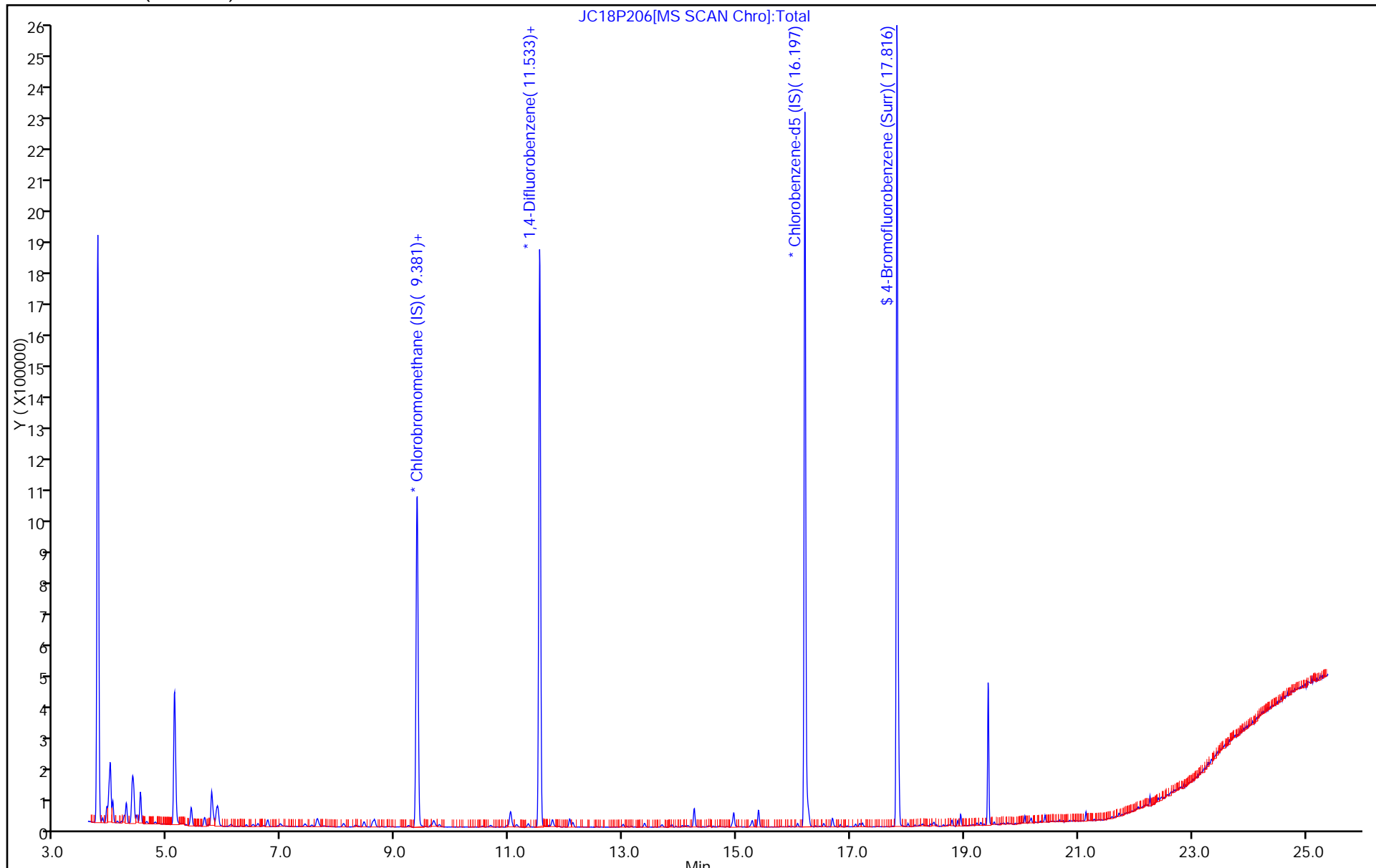
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

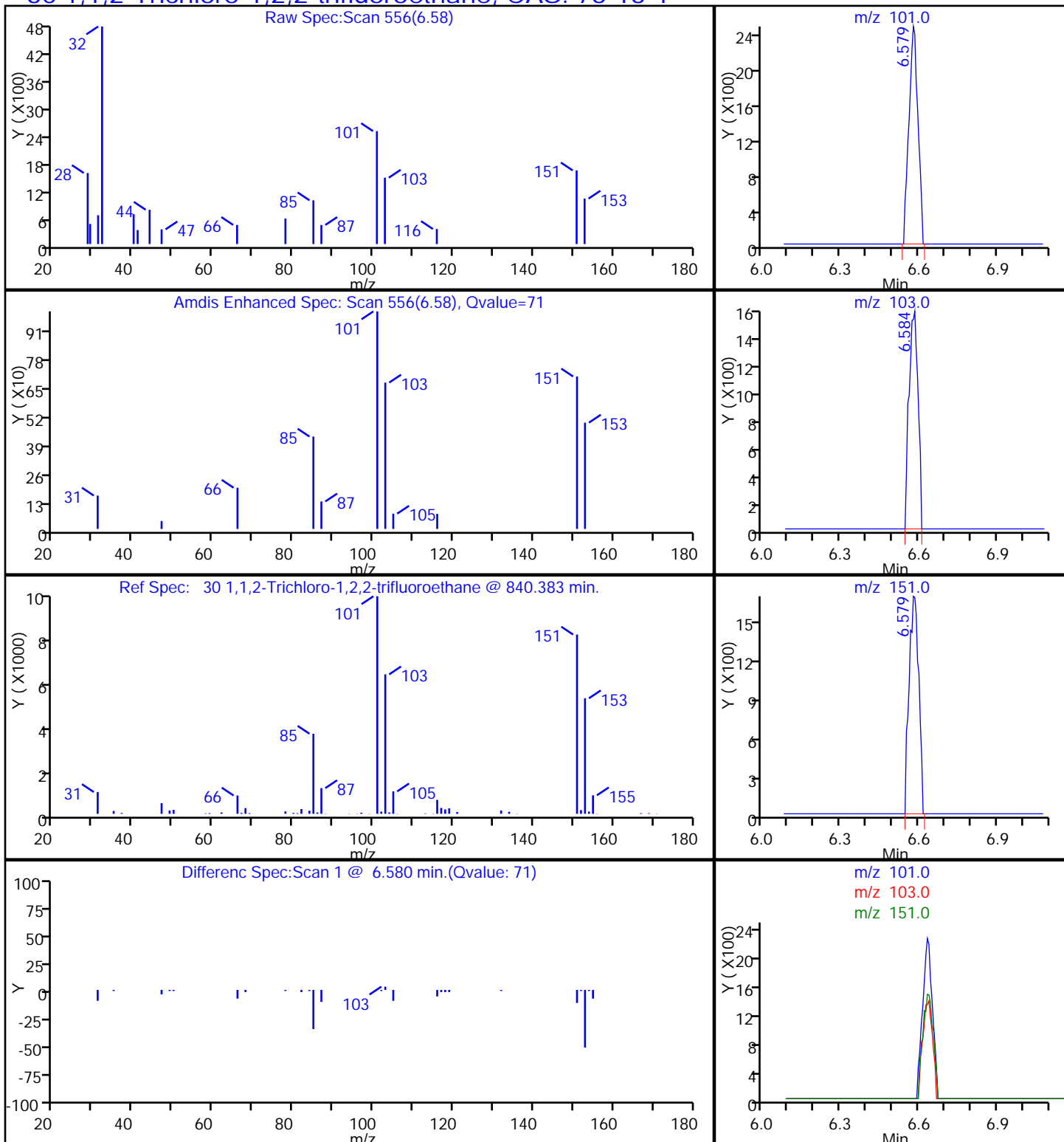
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

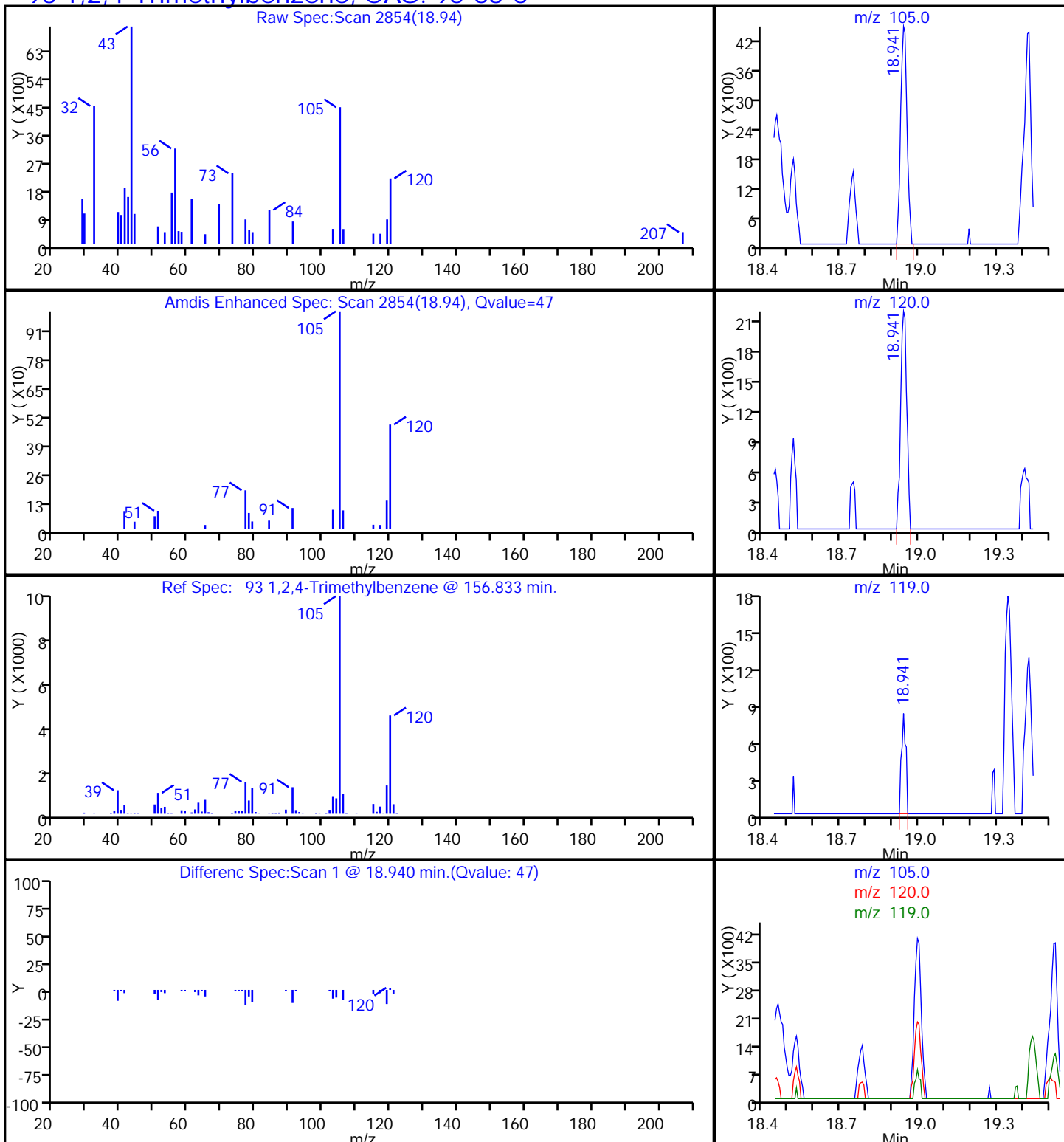
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

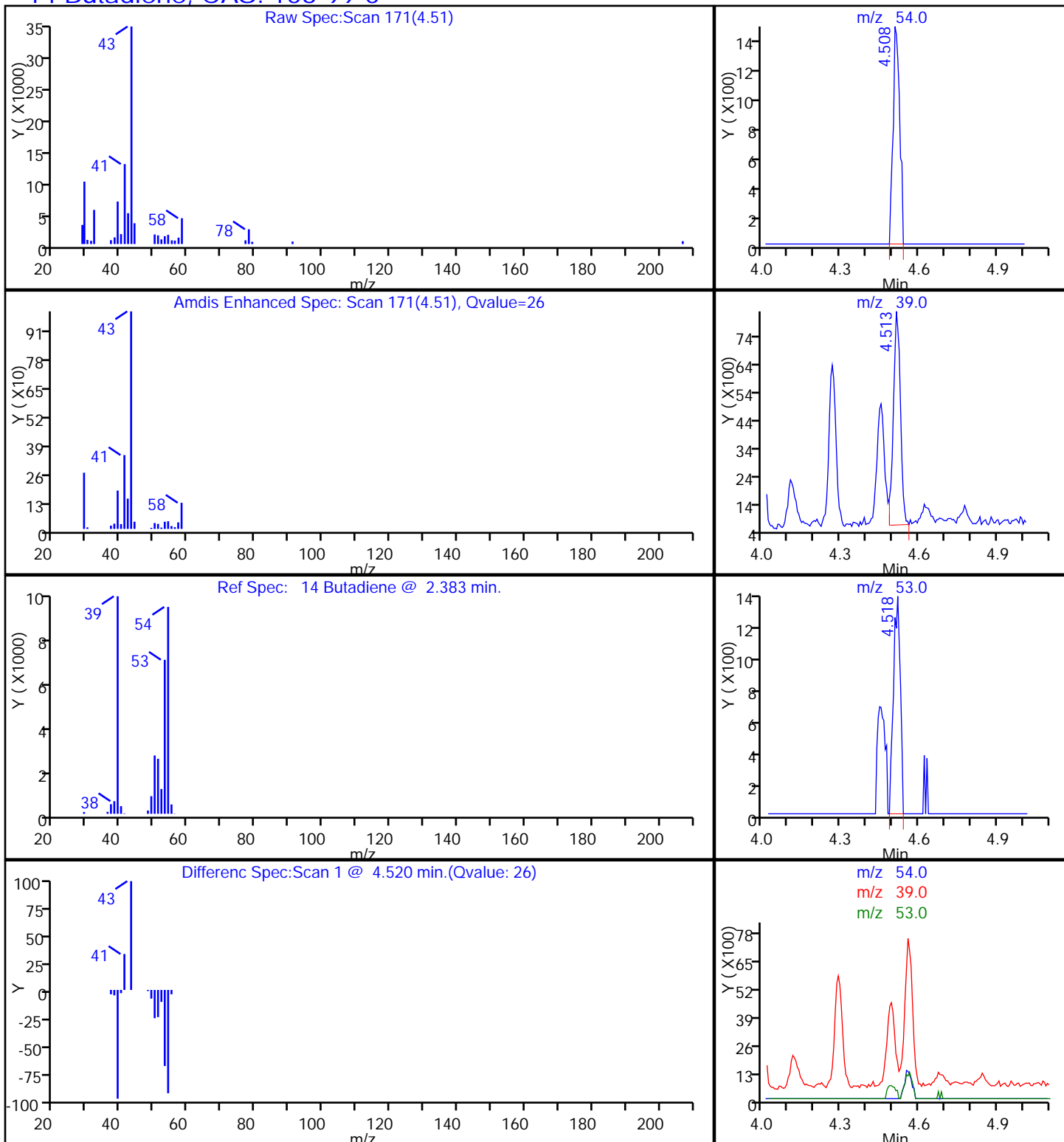
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

14 Butadiene, CAS: 106-99-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

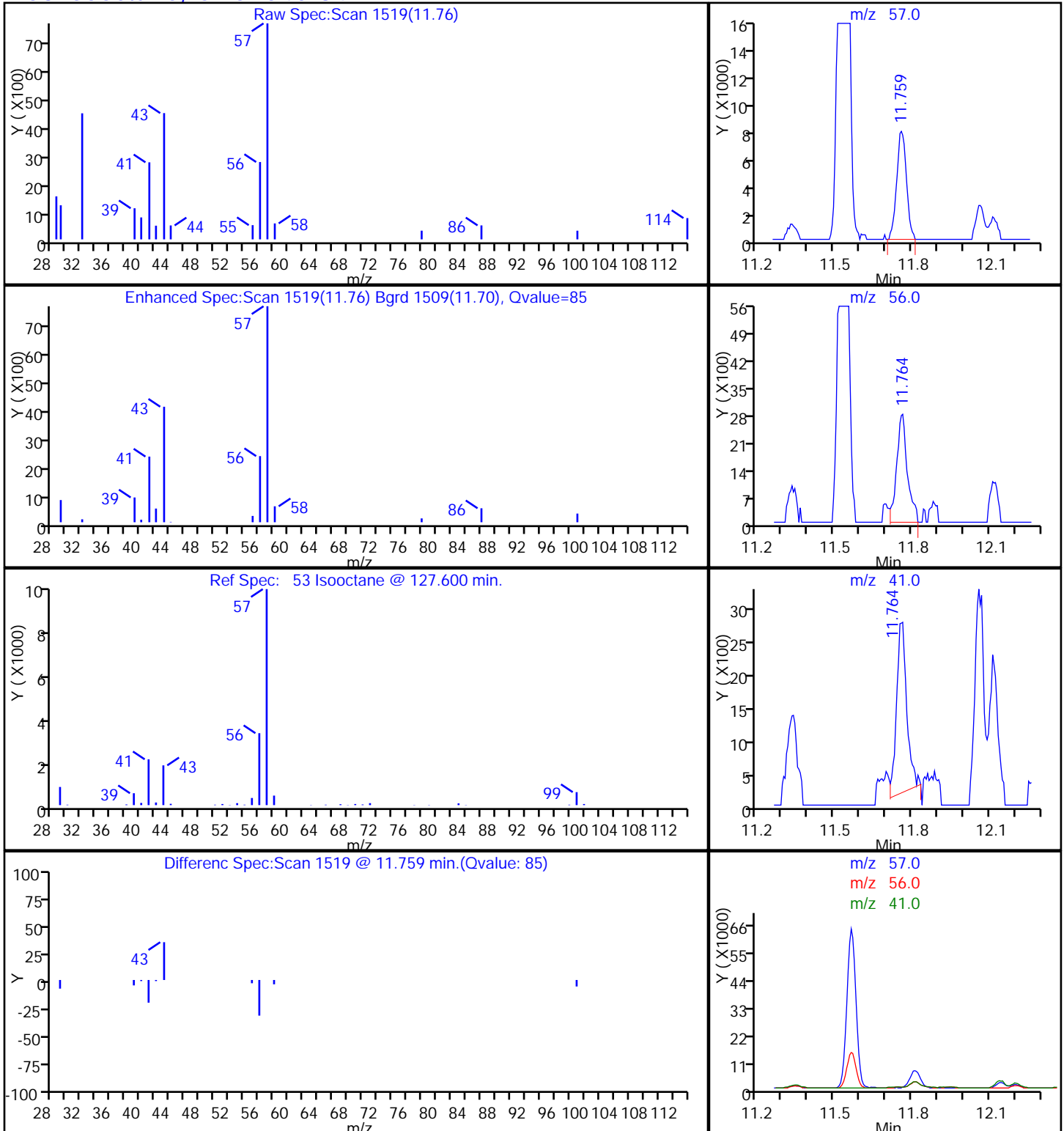
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

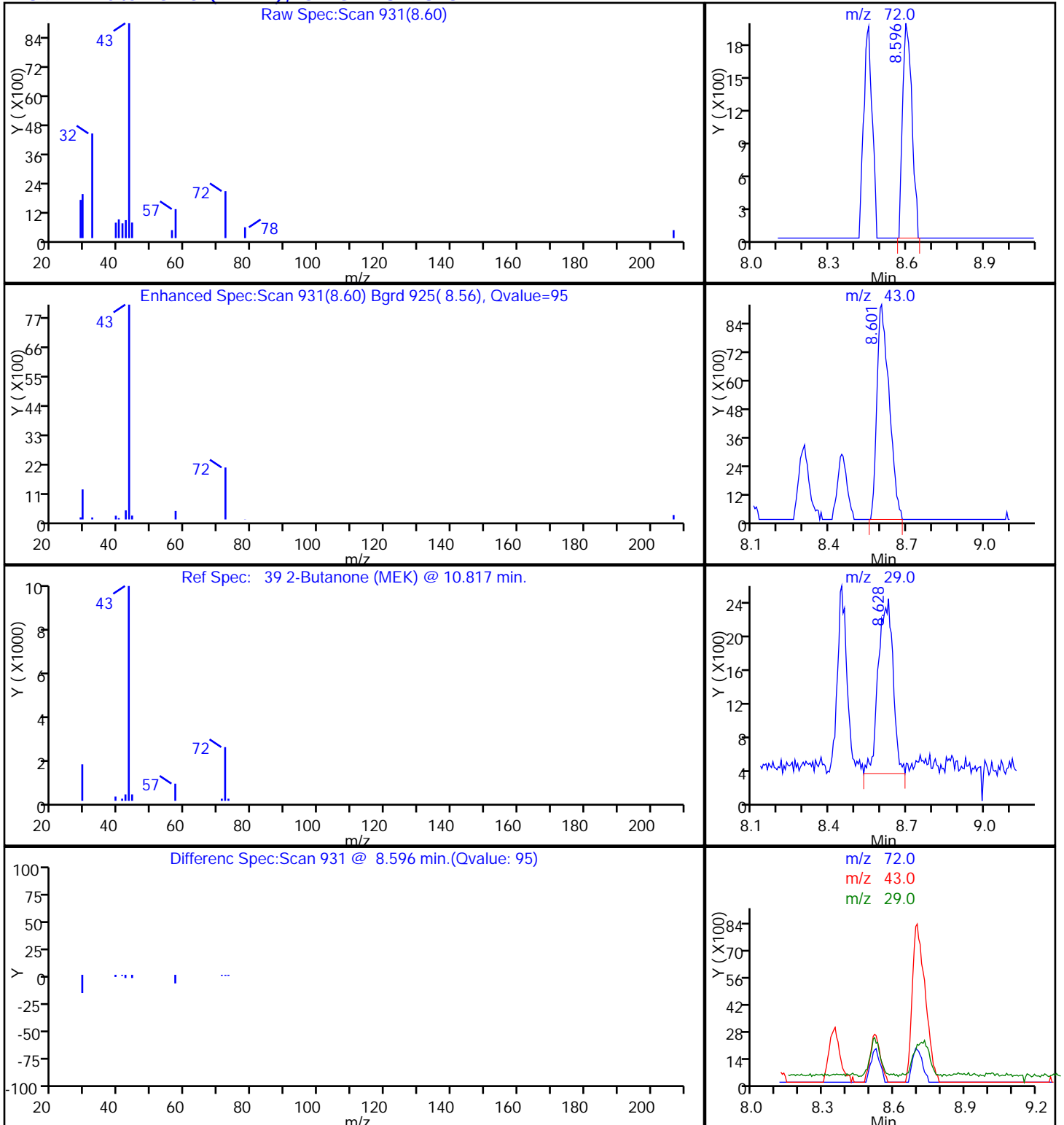
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

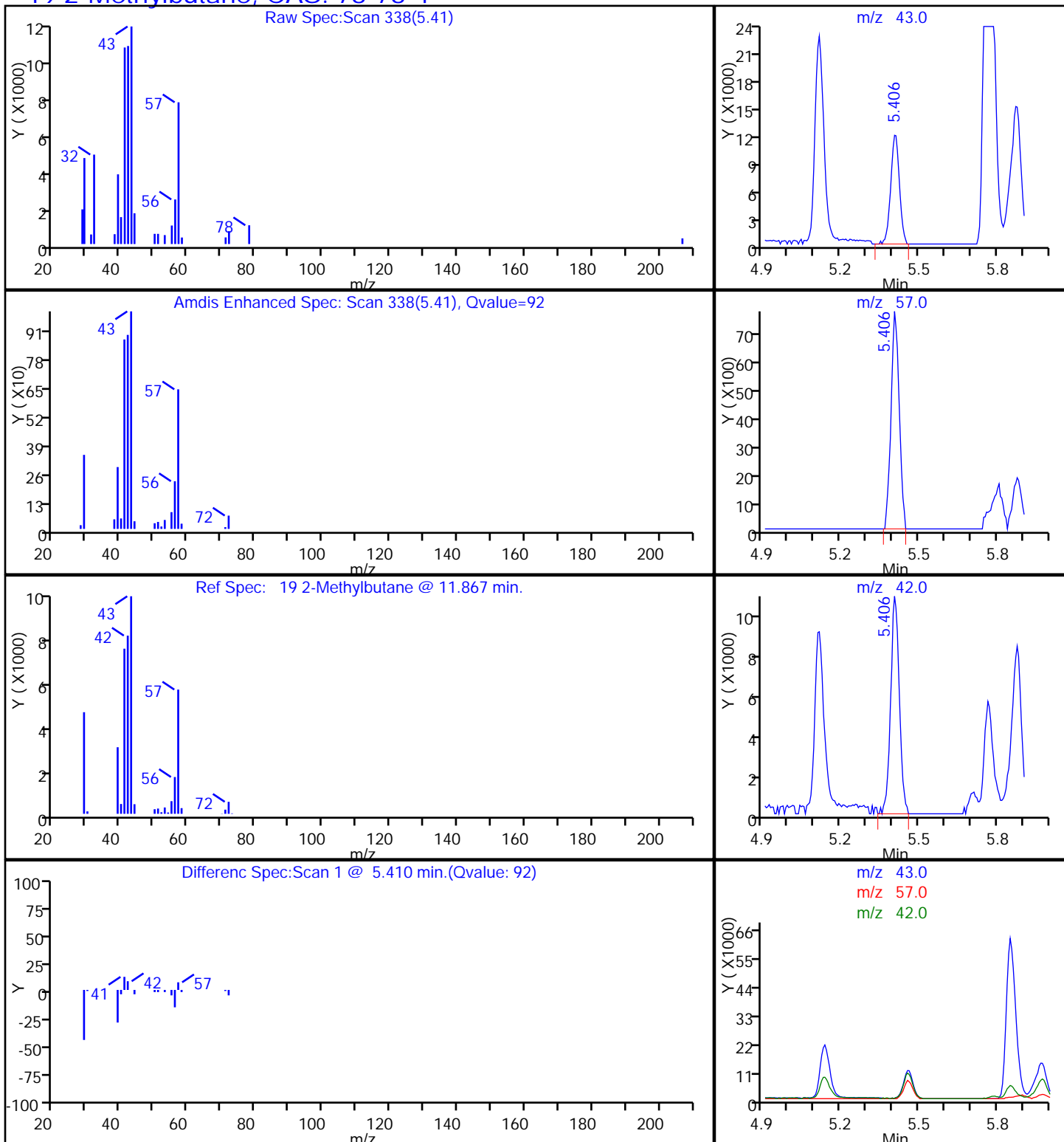
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

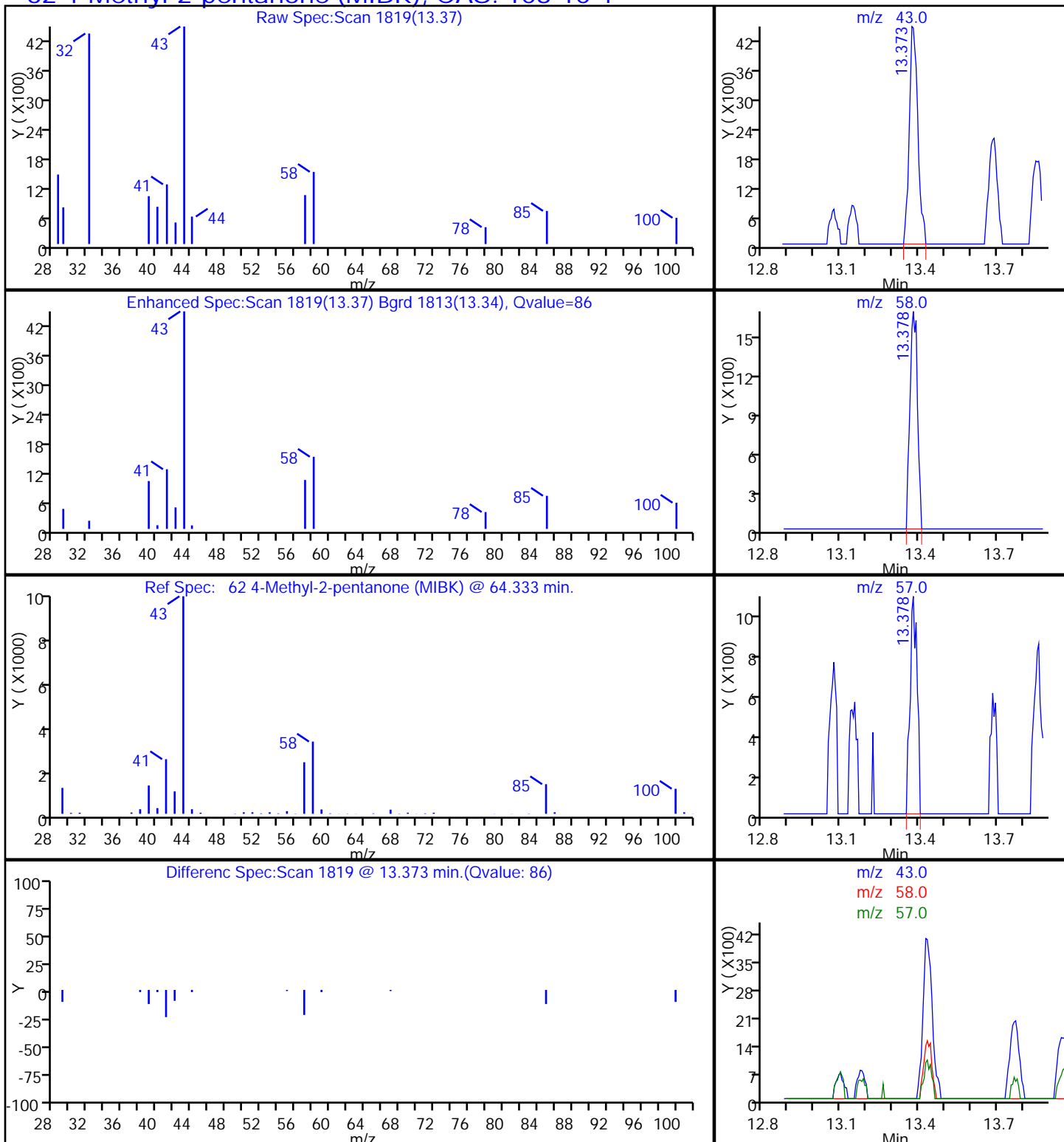
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

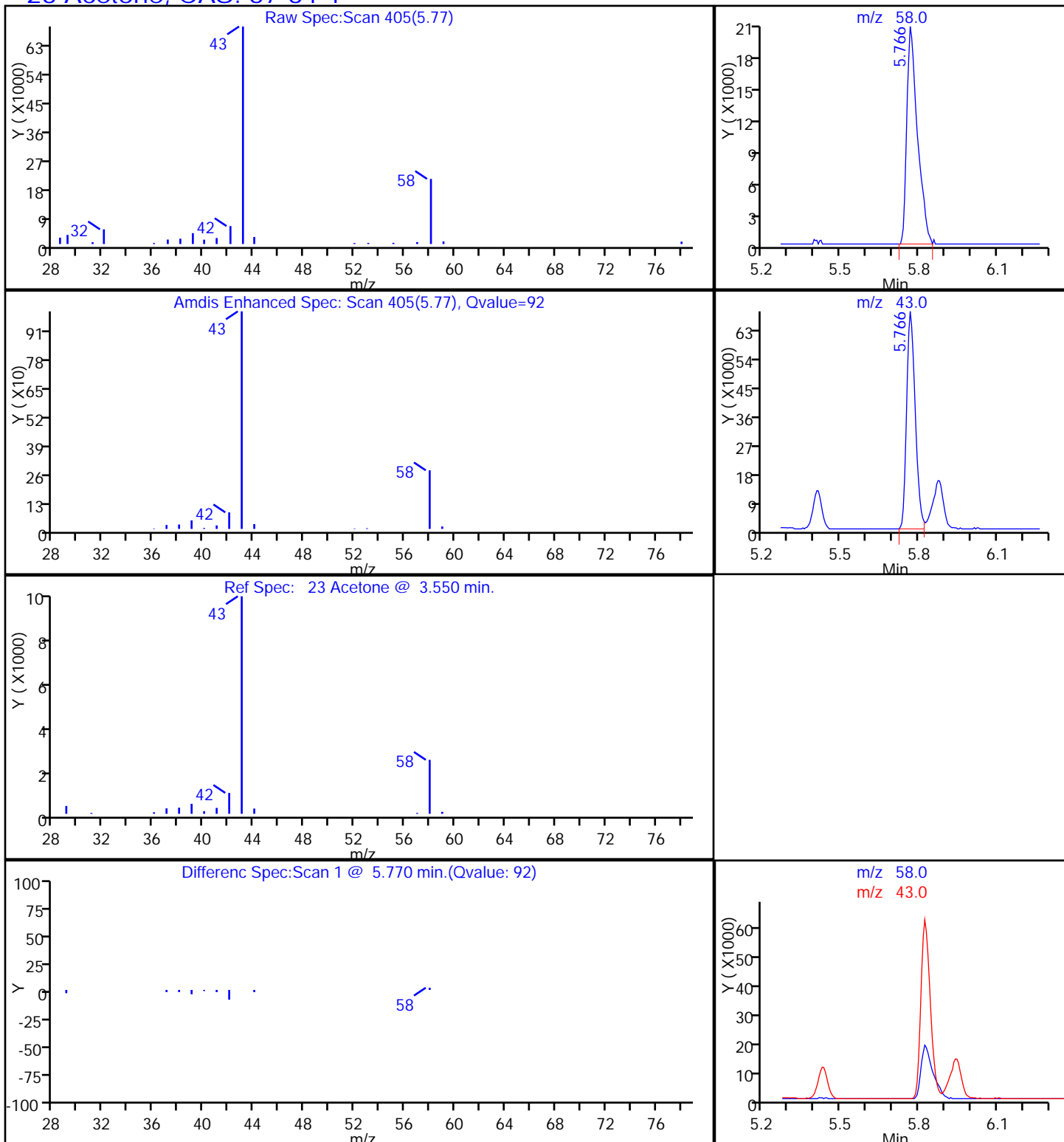
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

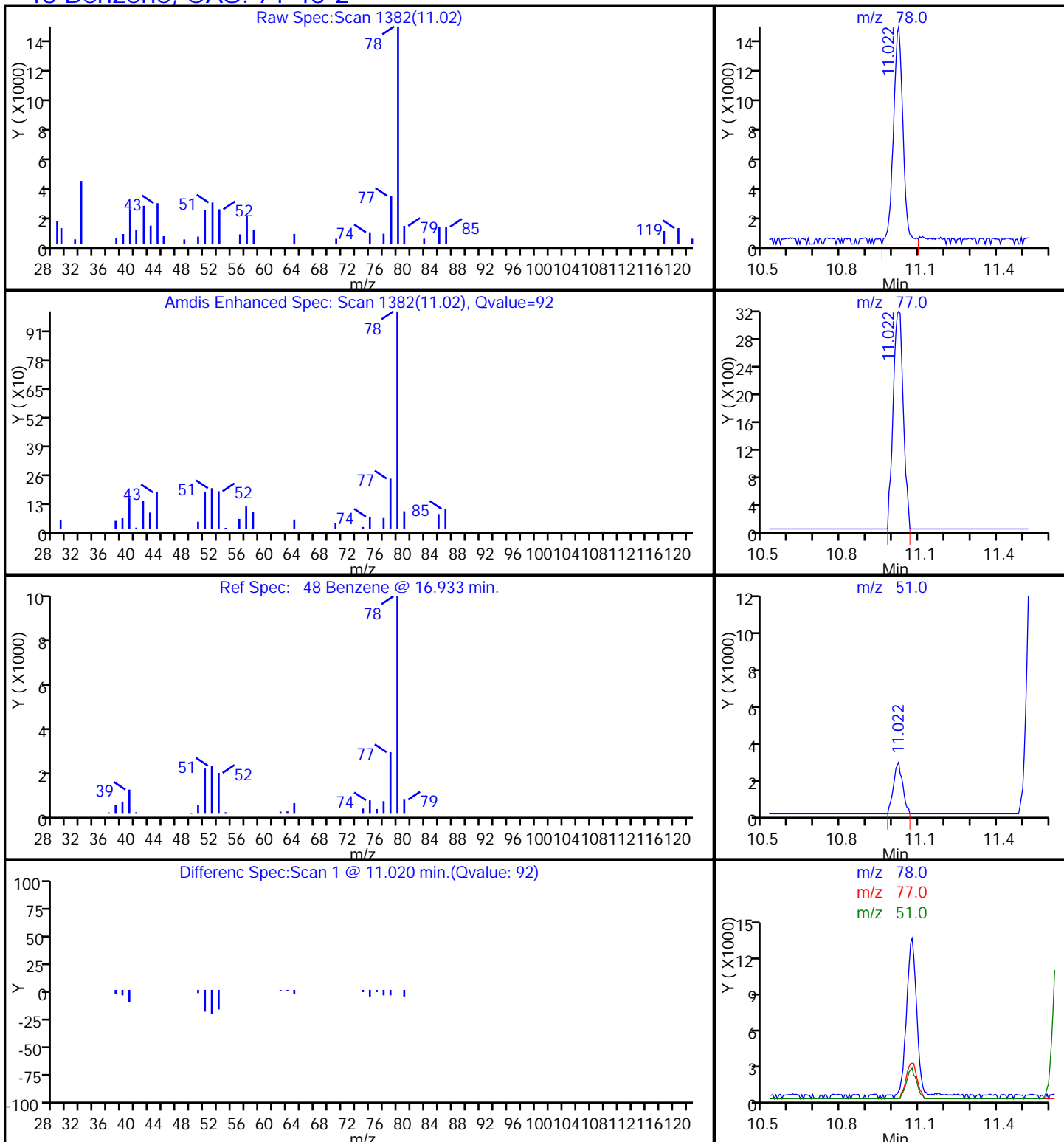
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

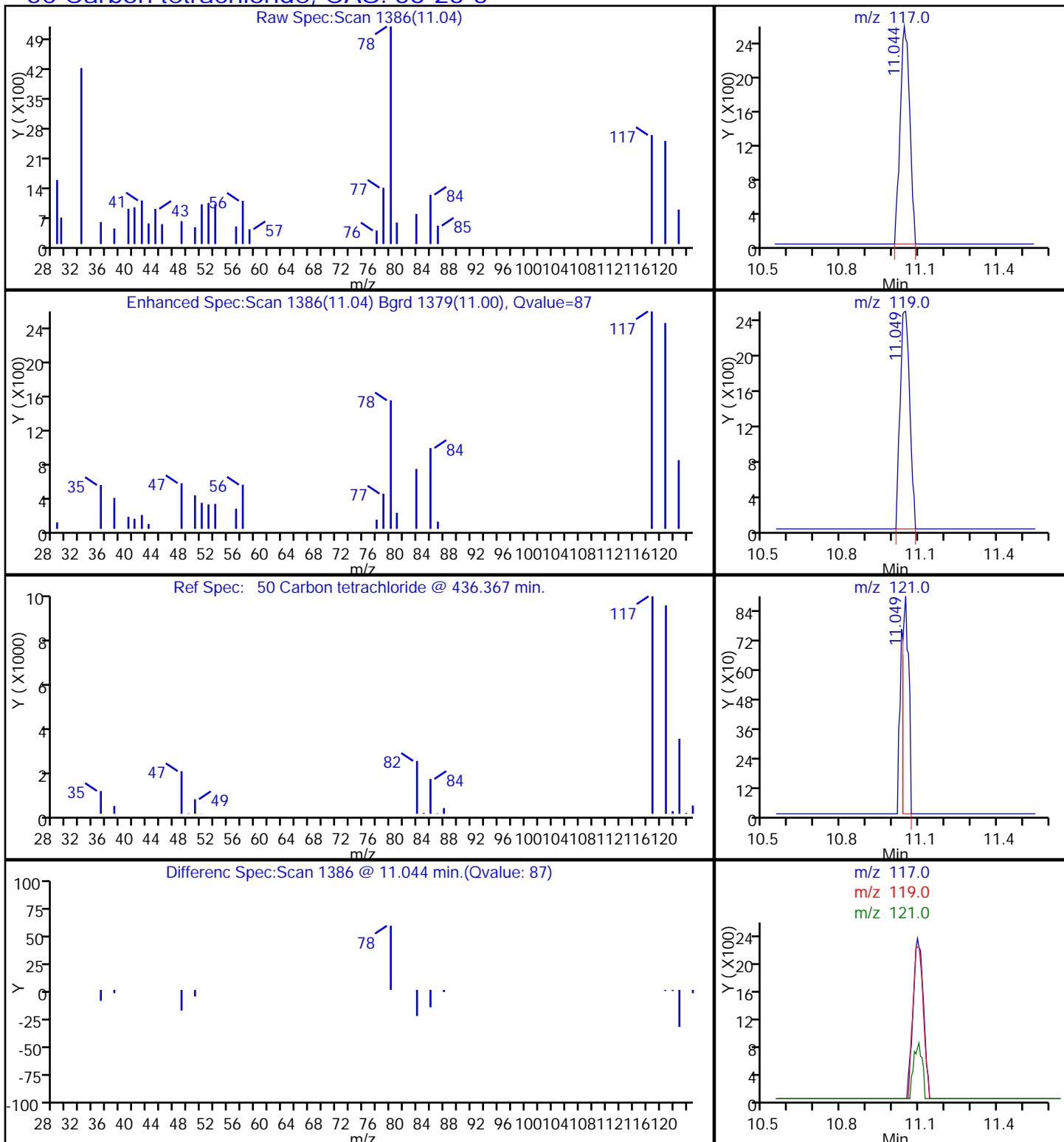
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

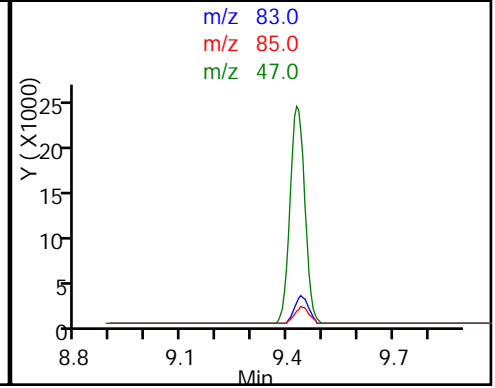
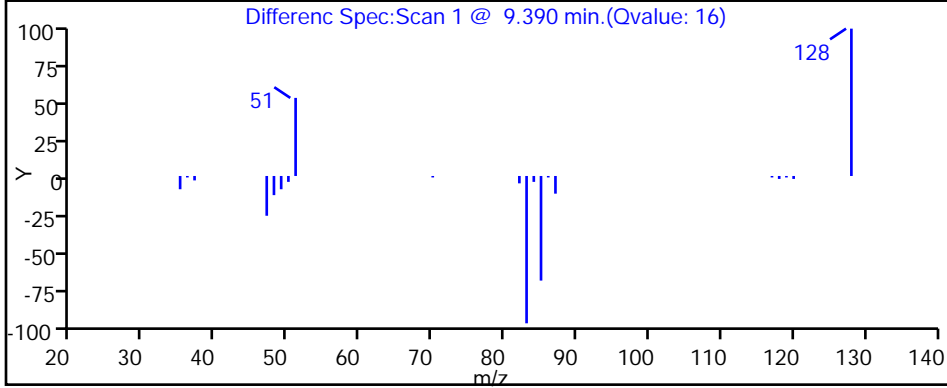
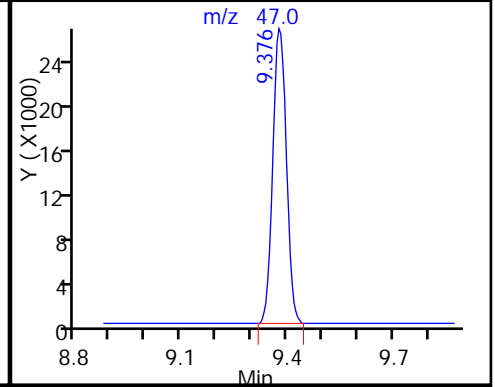
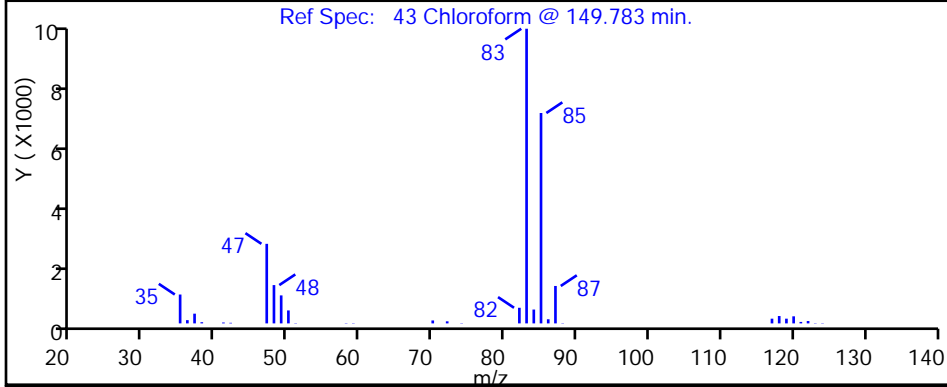
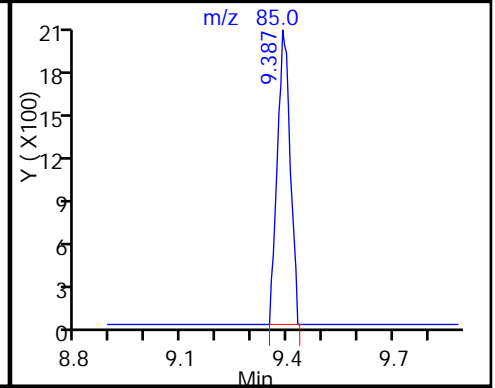
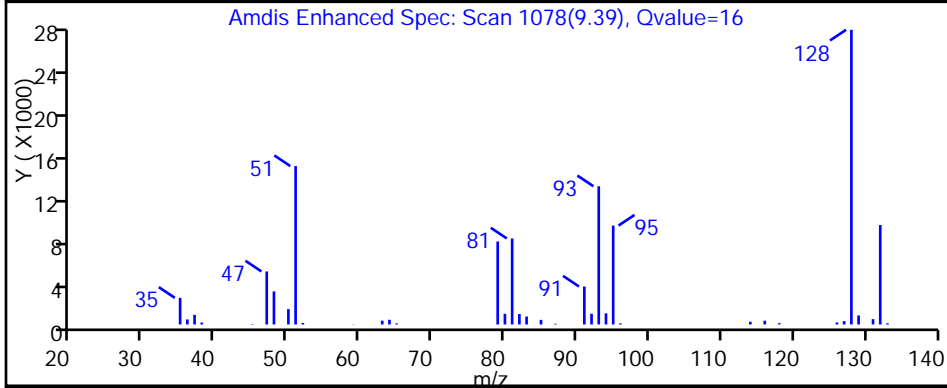
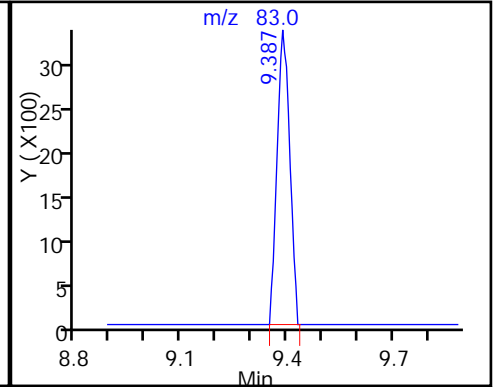
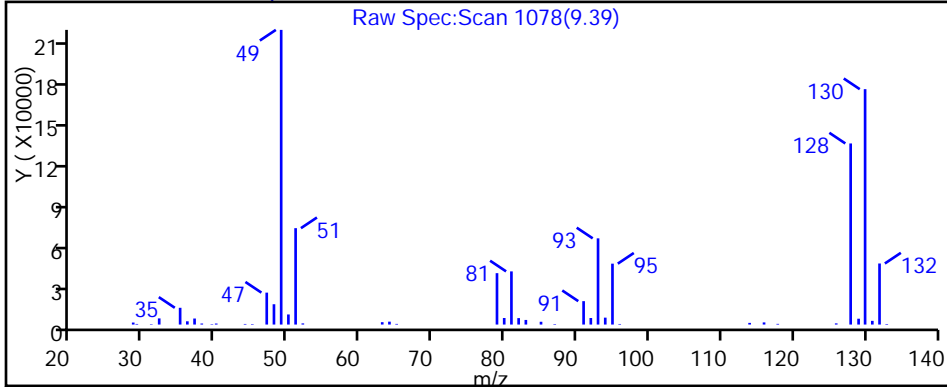
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

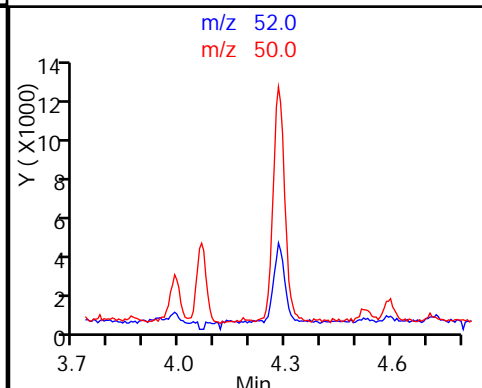
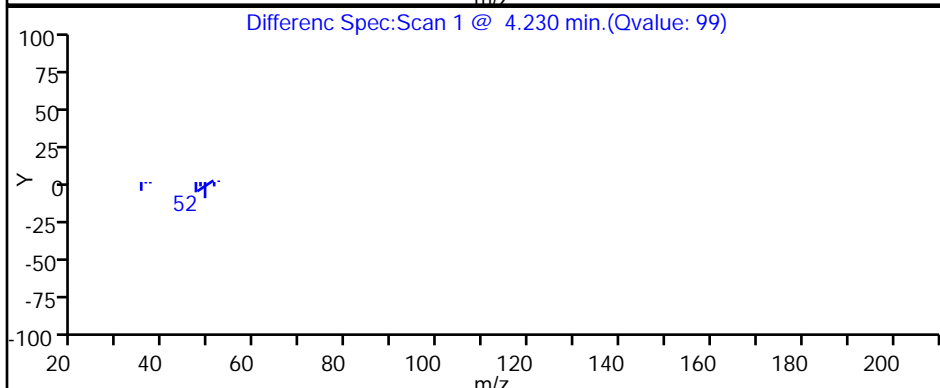
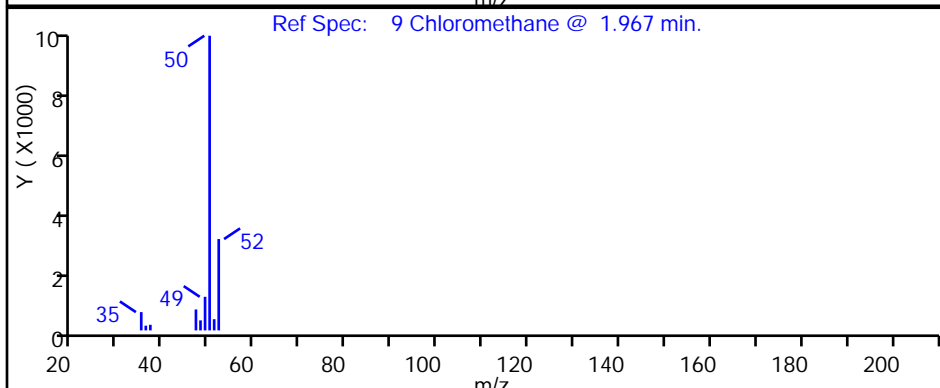
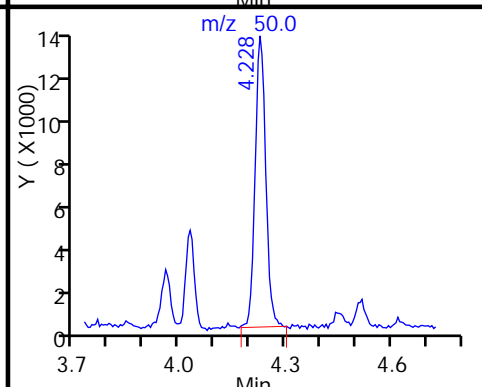
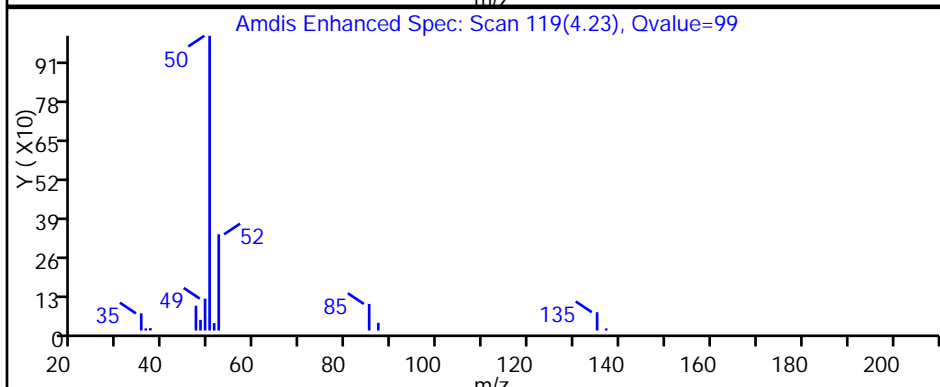
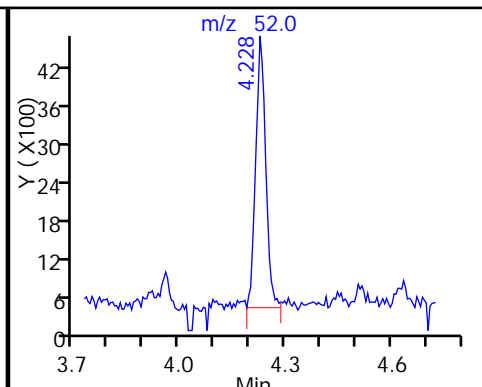
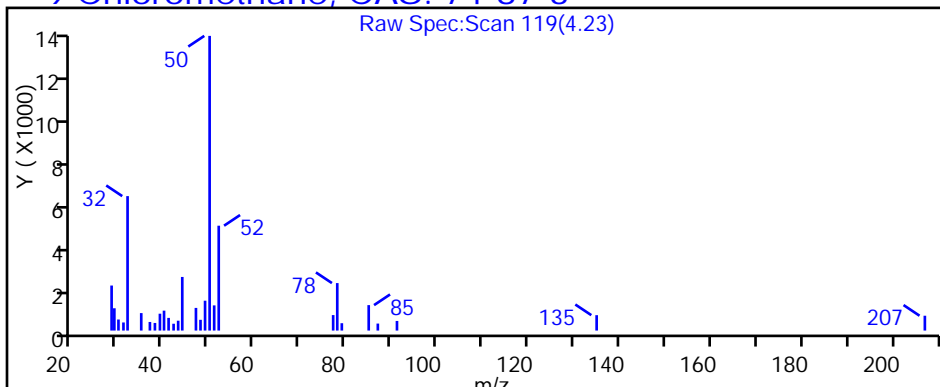
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

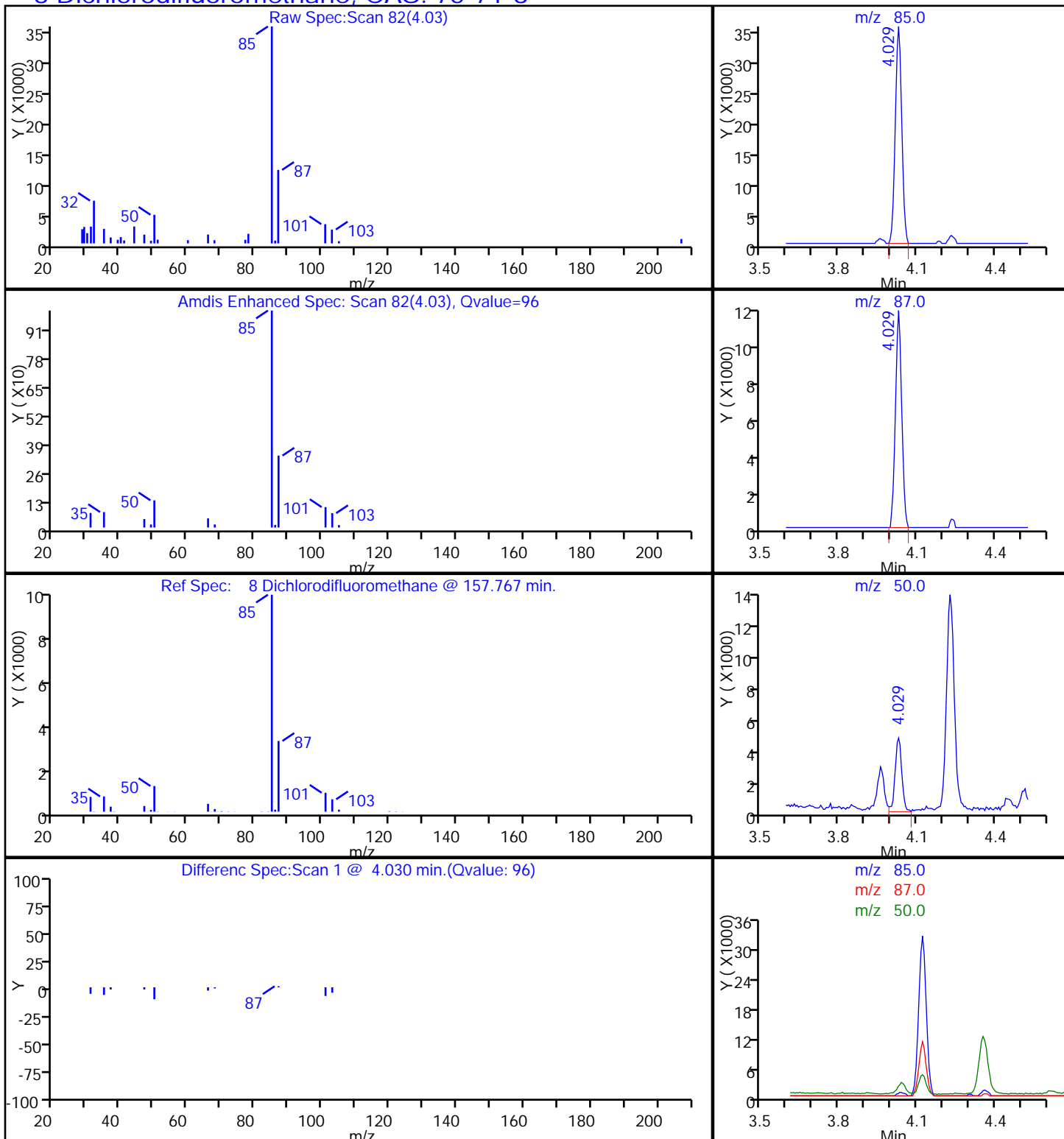
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

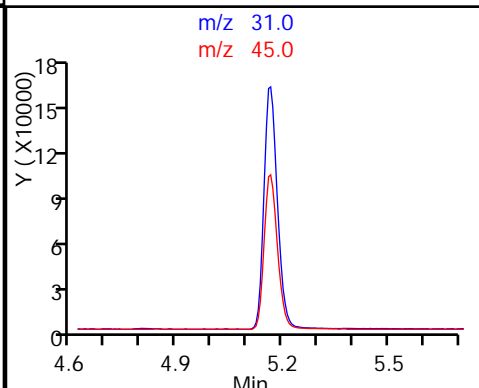
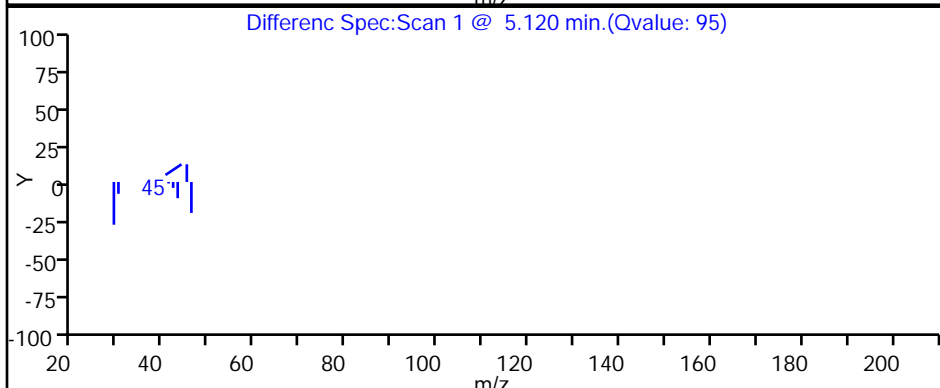
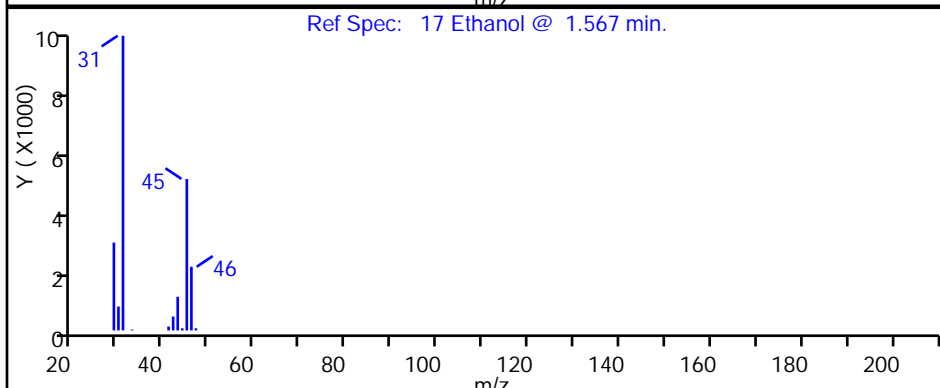
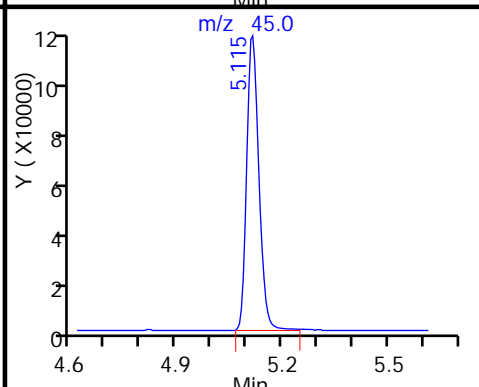
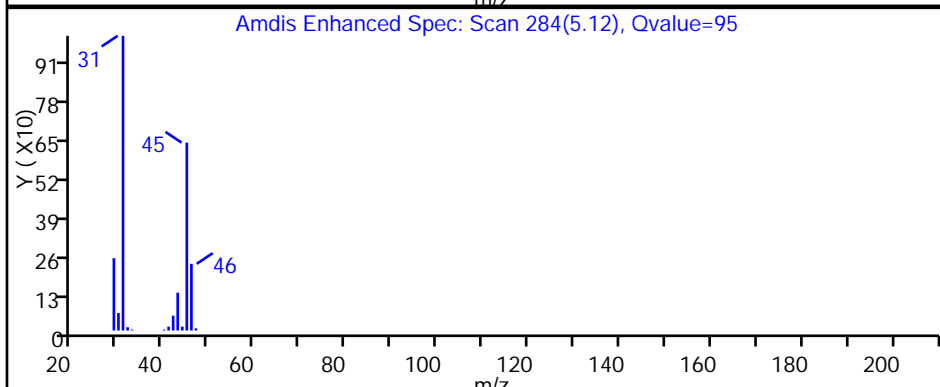
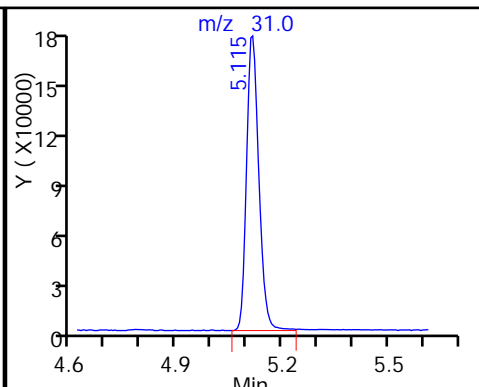
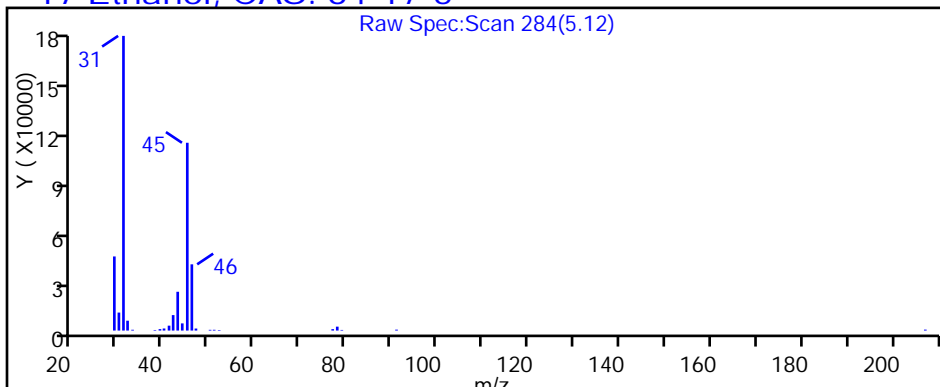
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

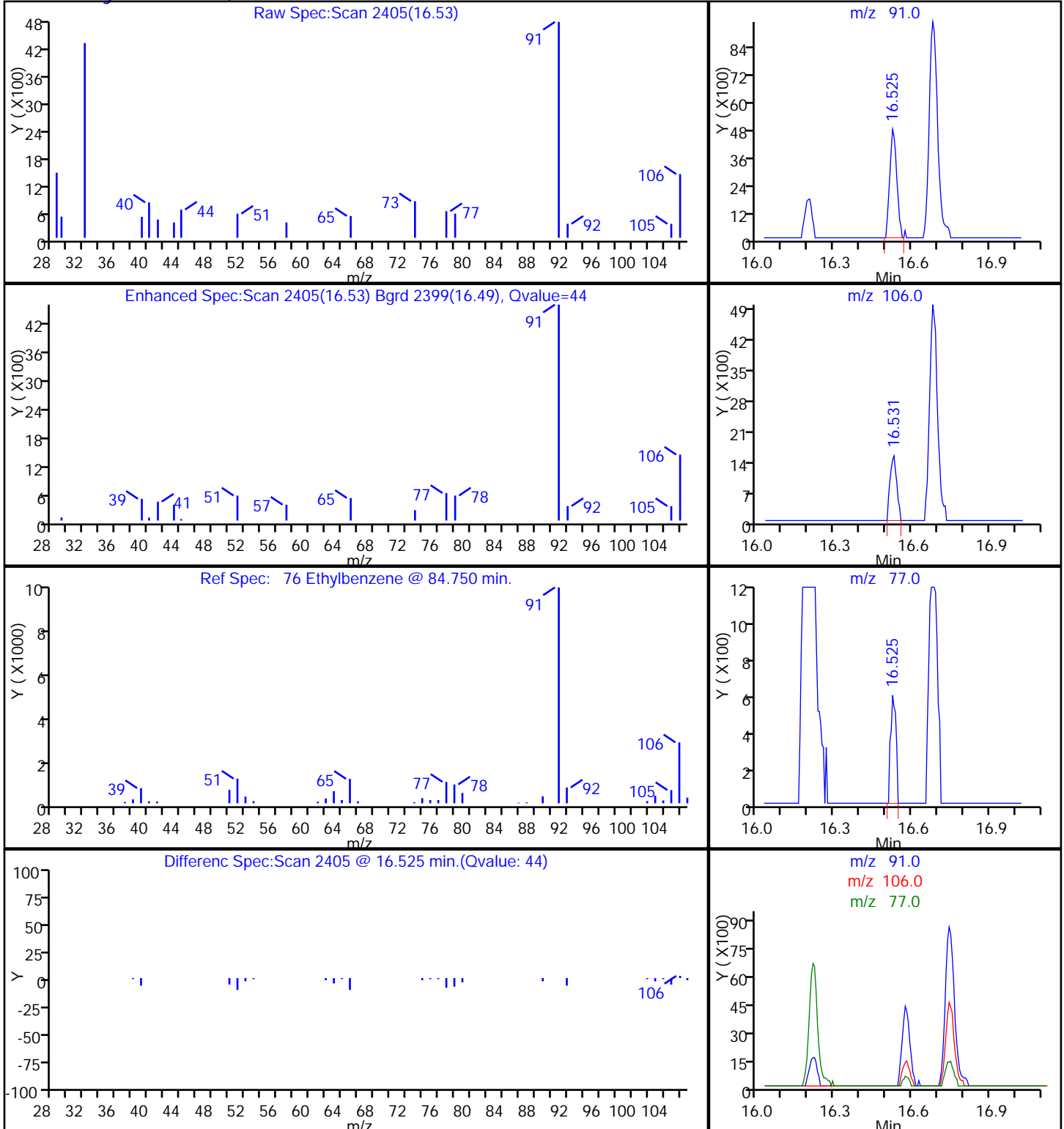
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

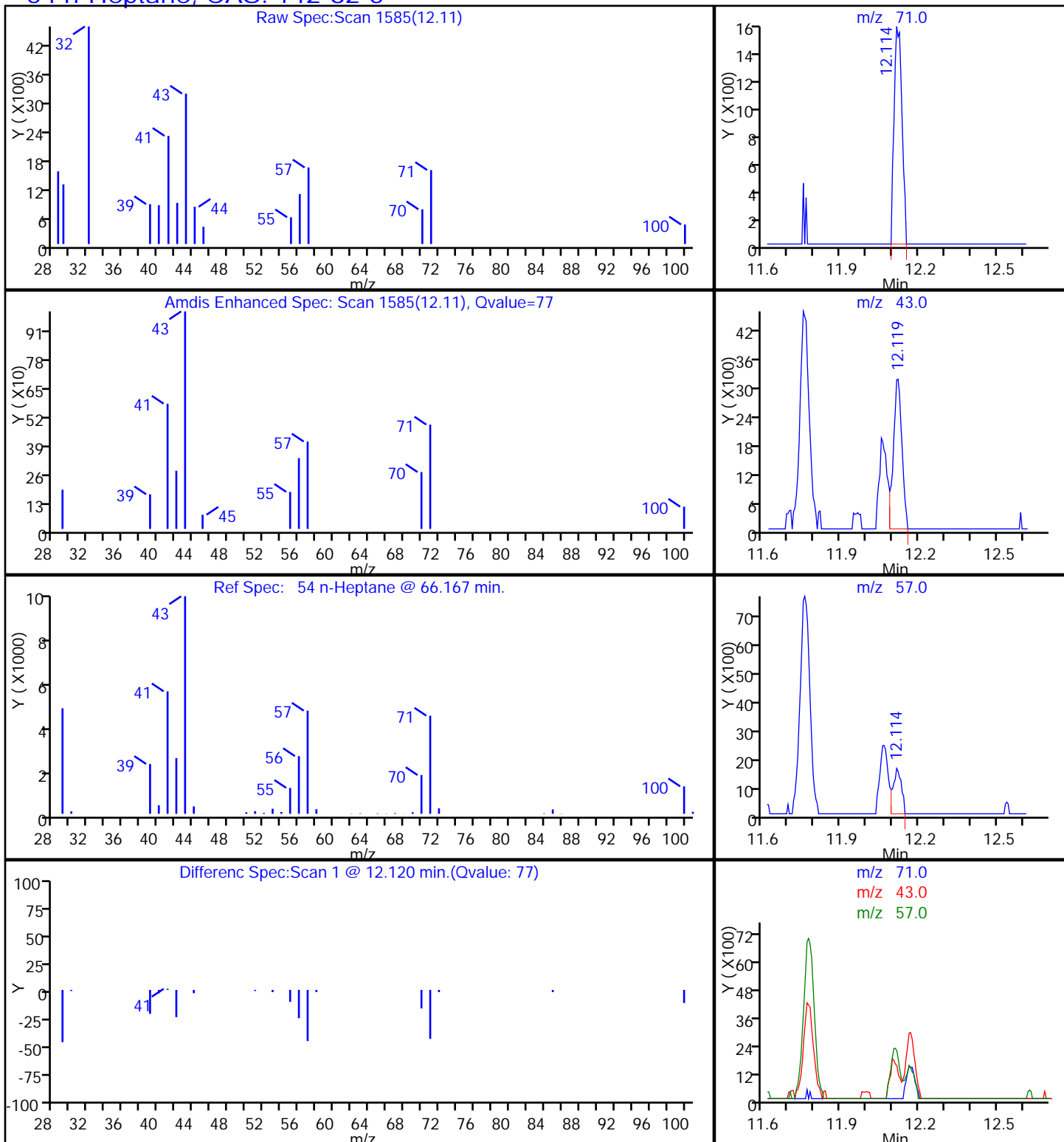
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

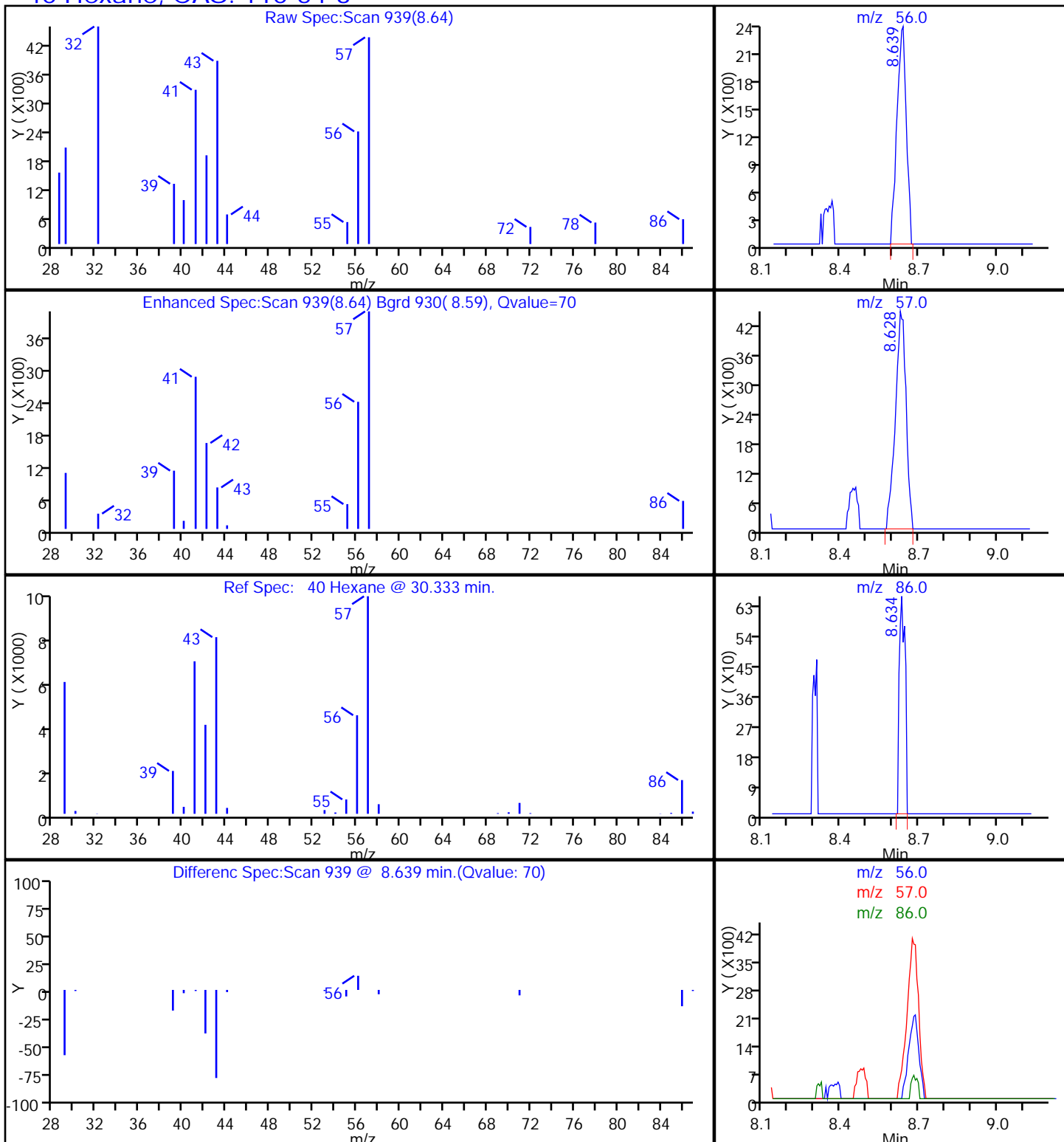
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

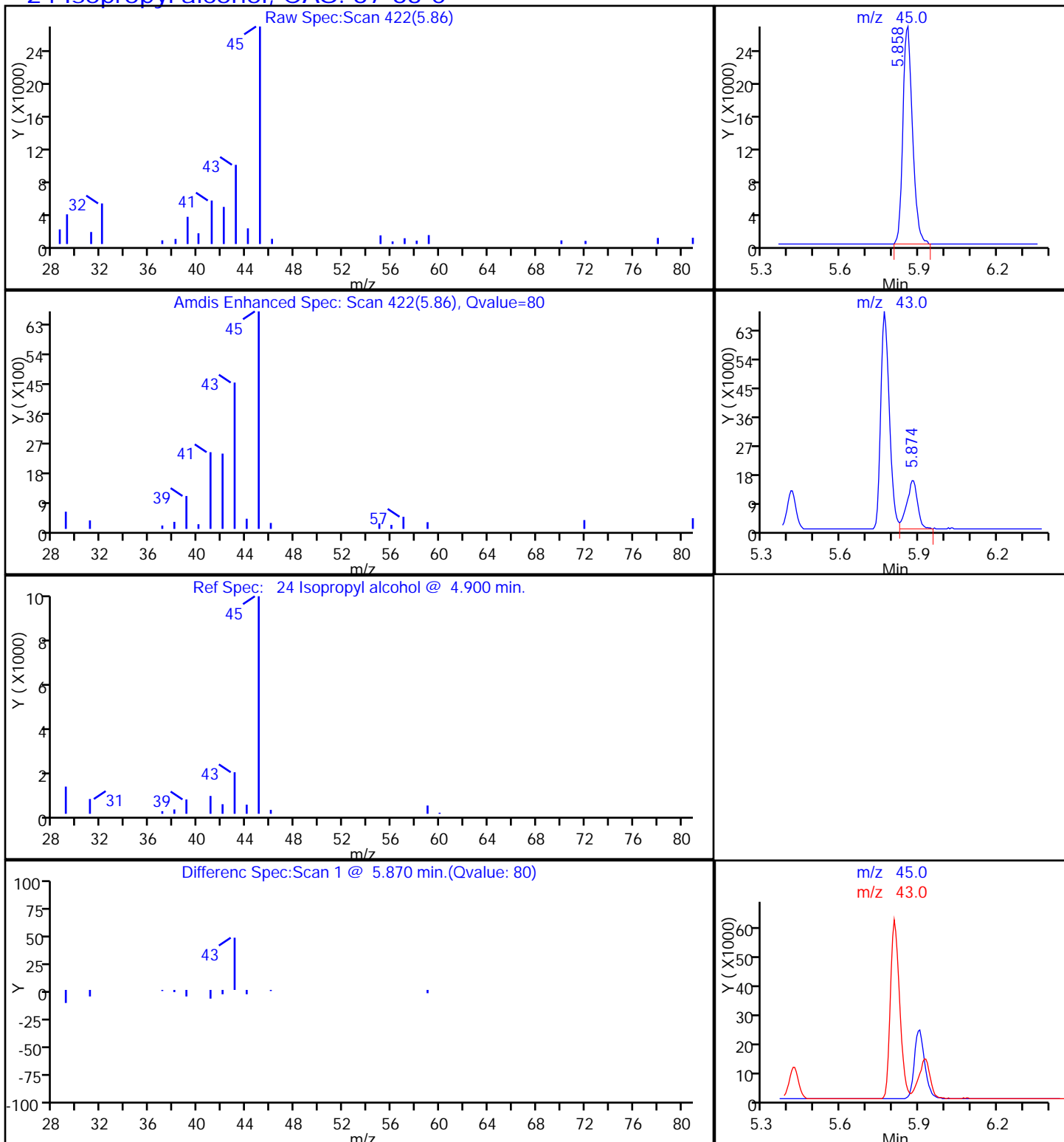
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

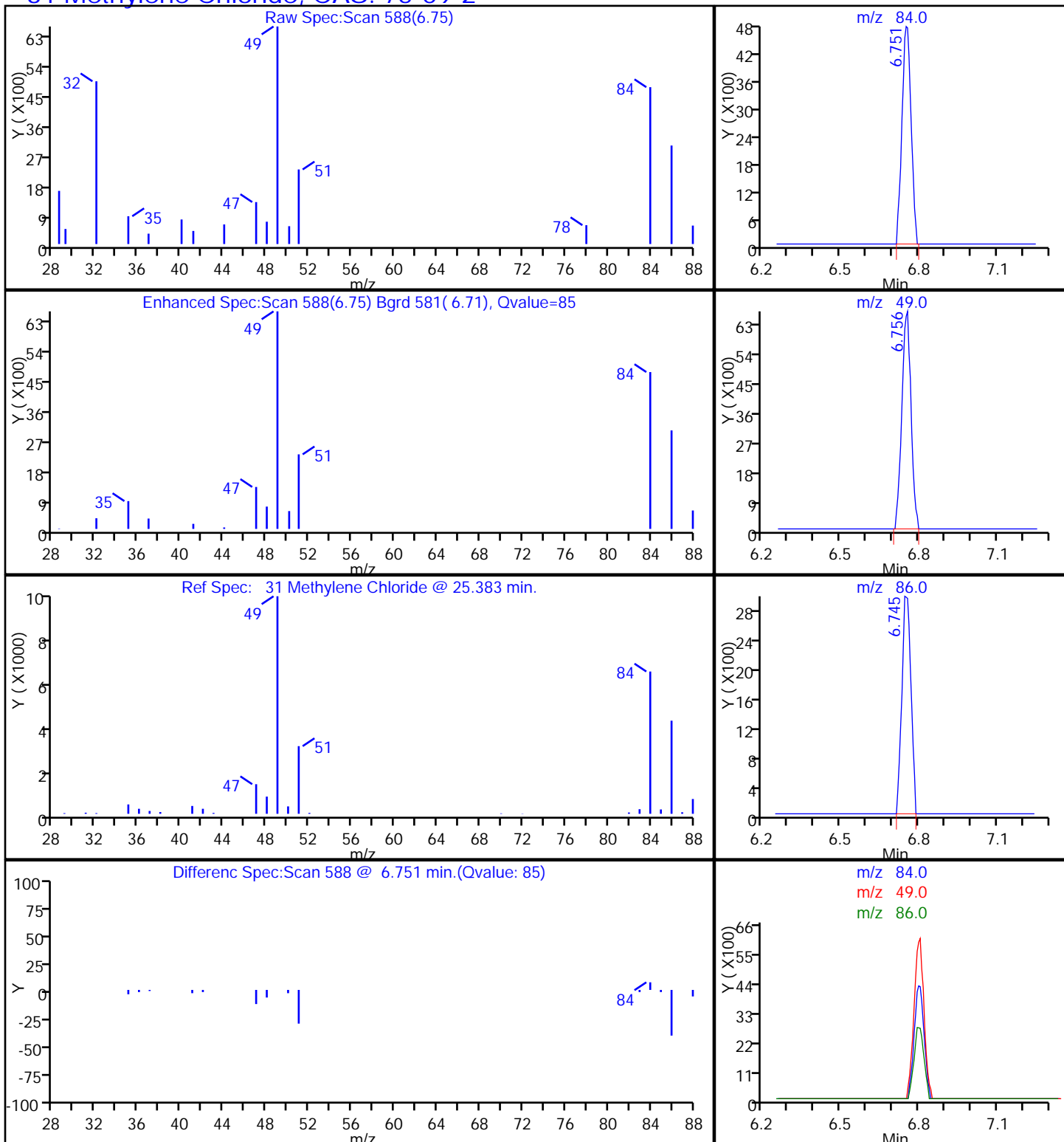
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

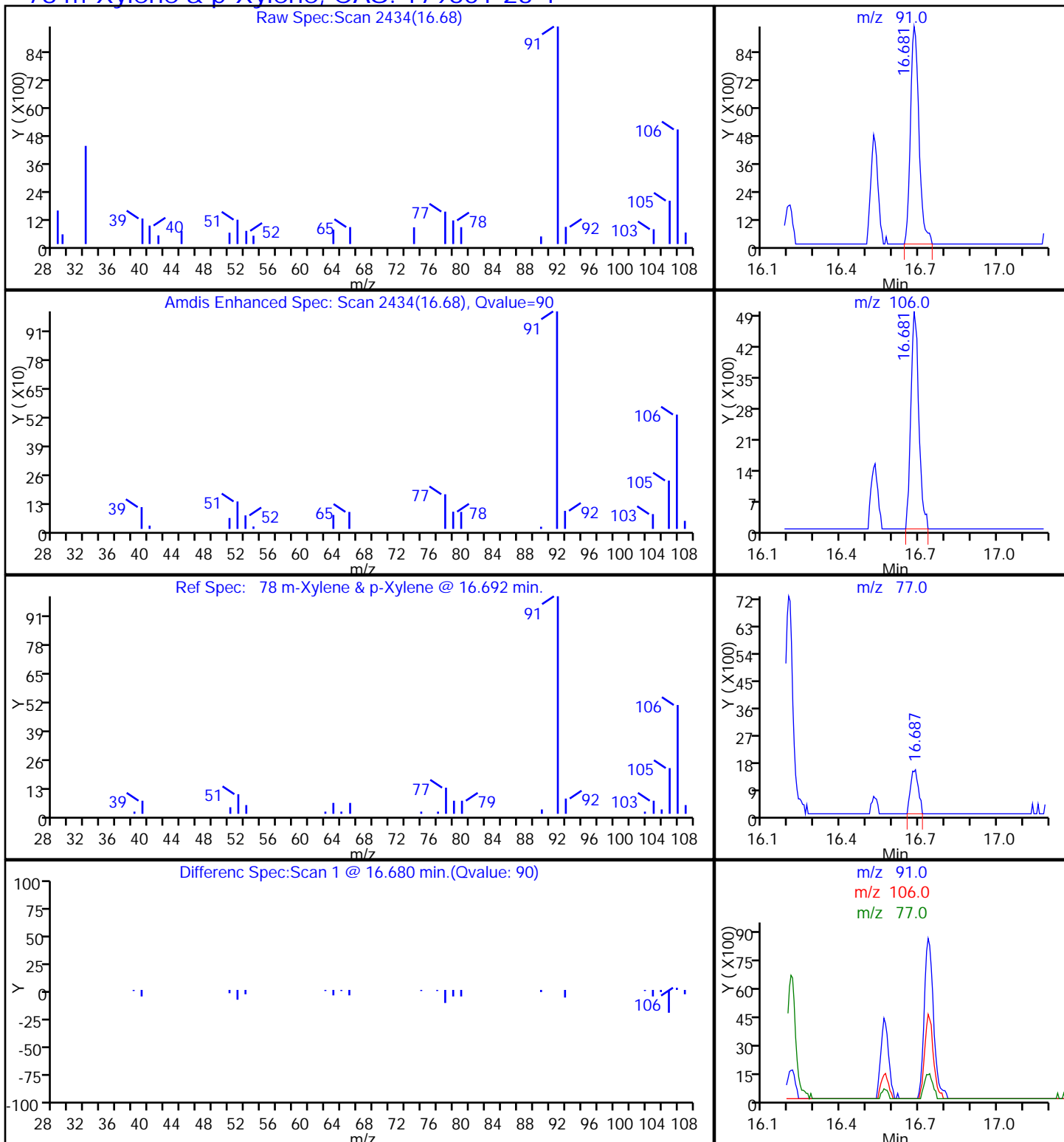
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

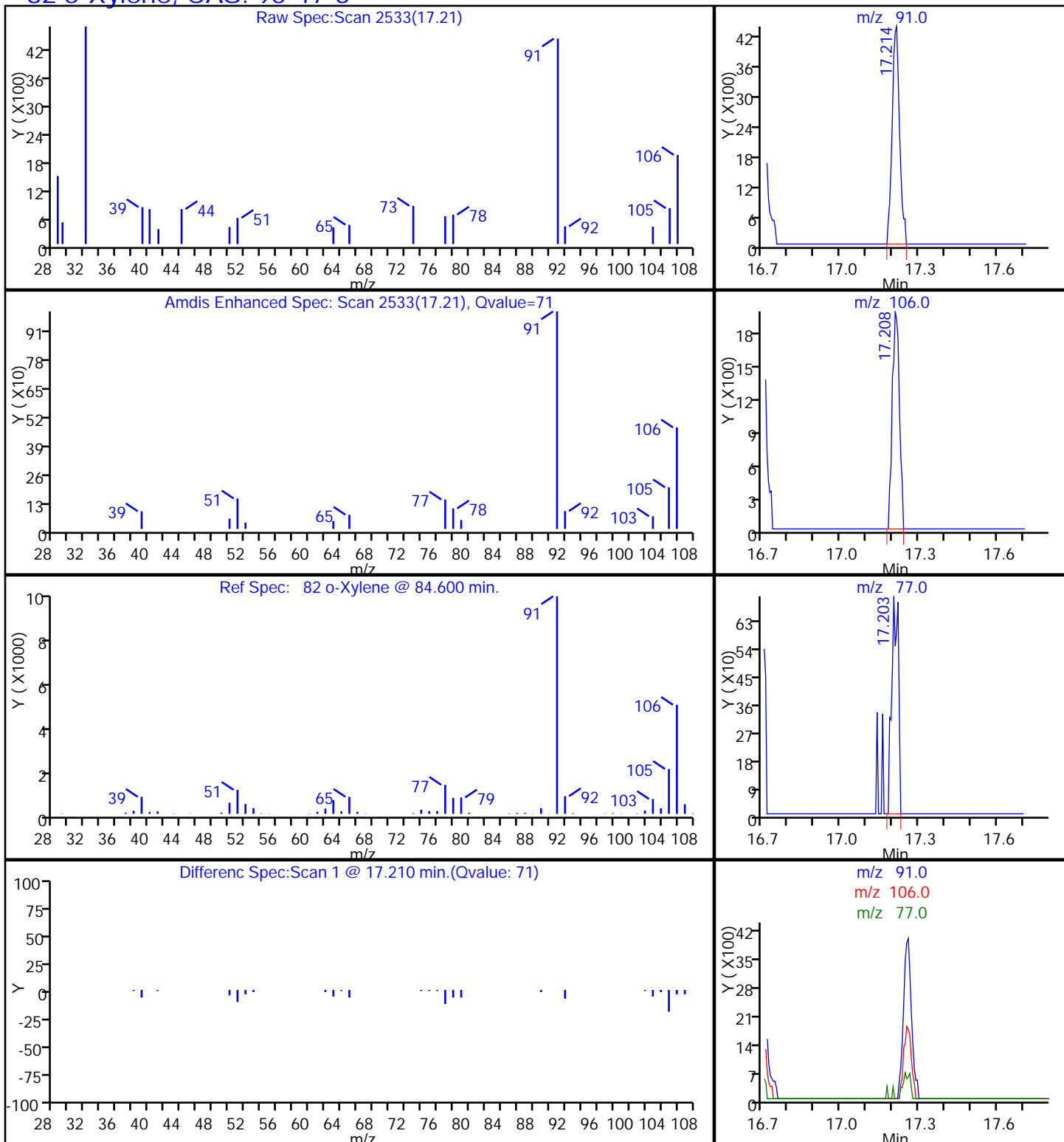
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

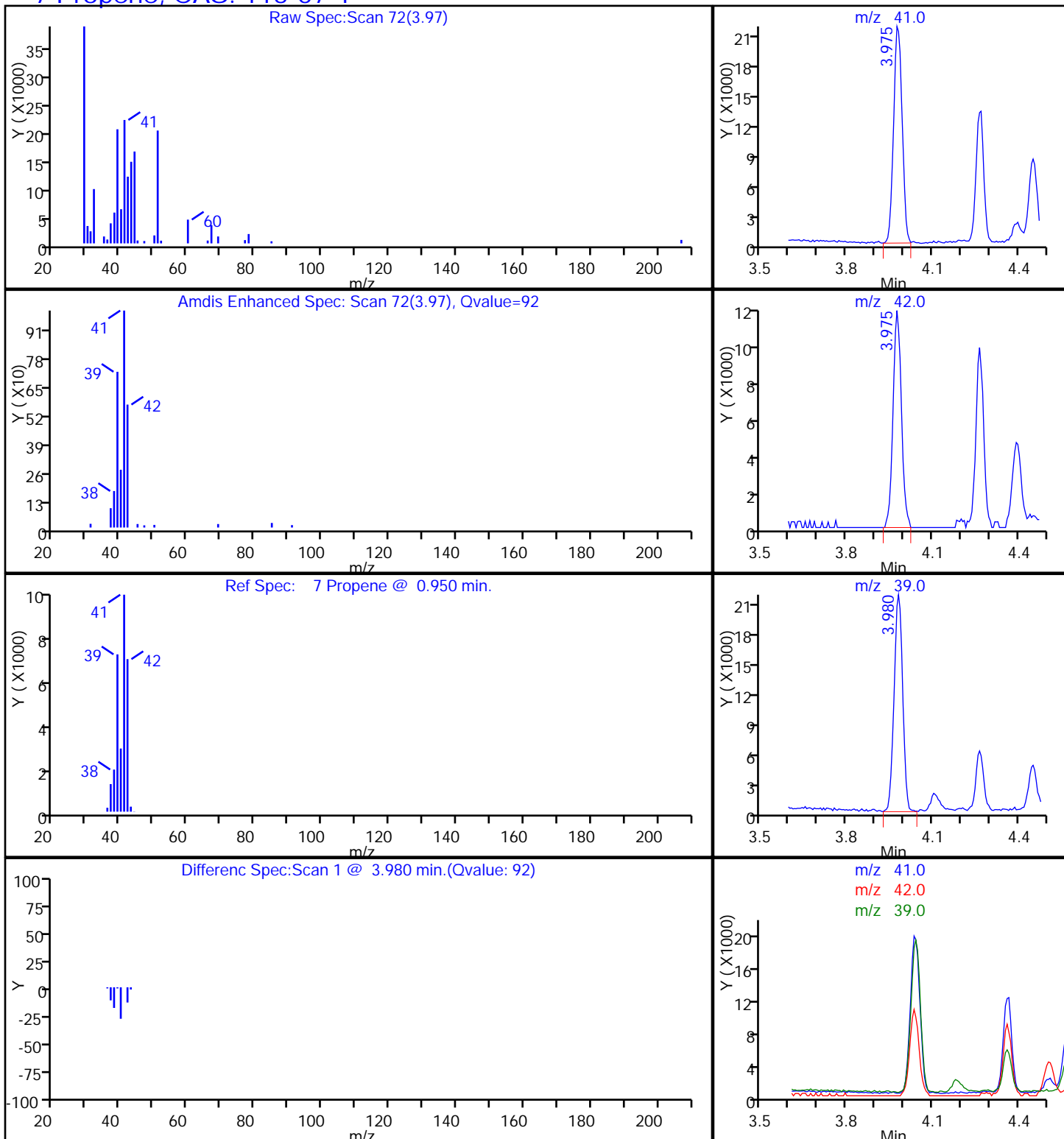
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

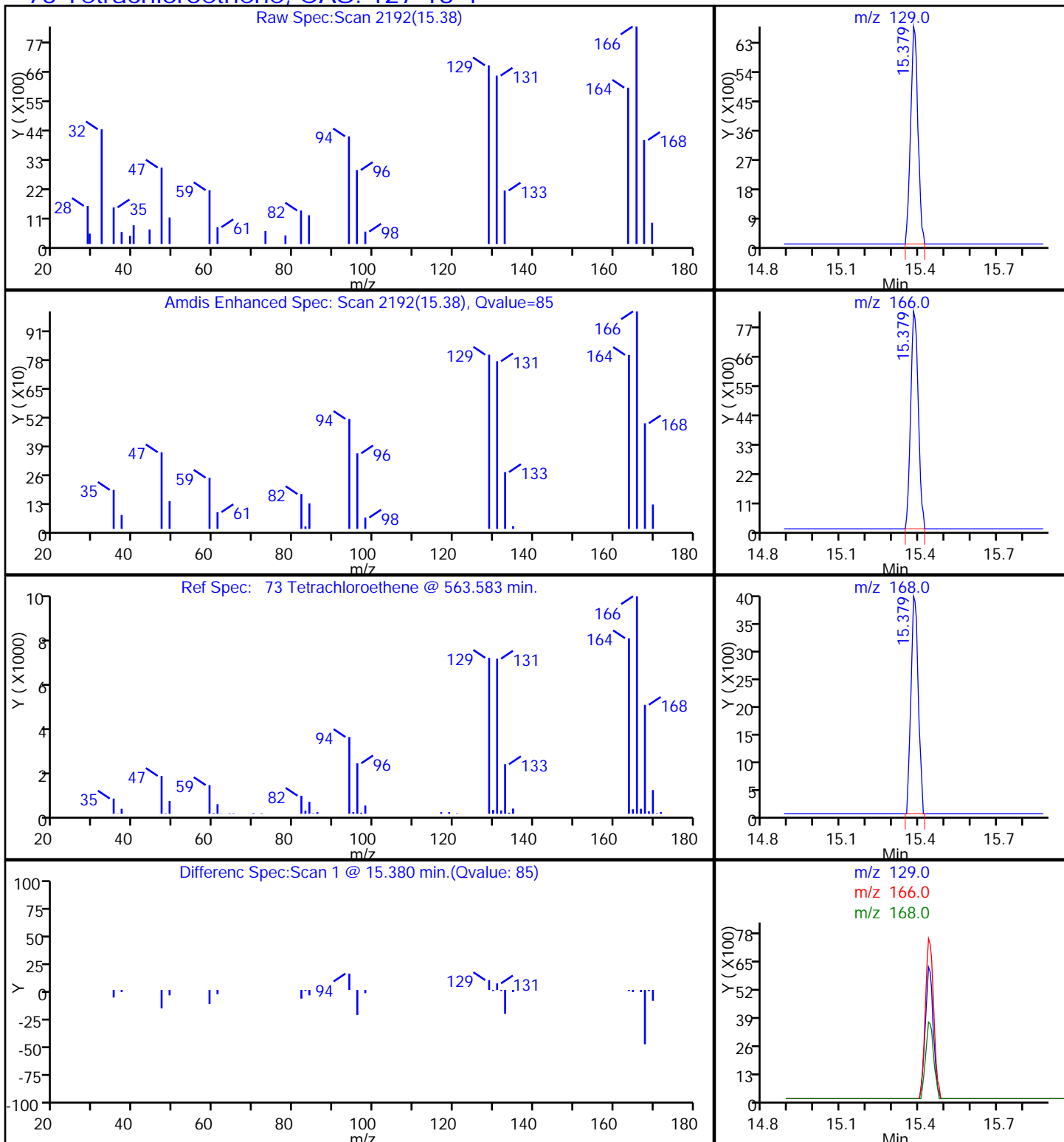
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

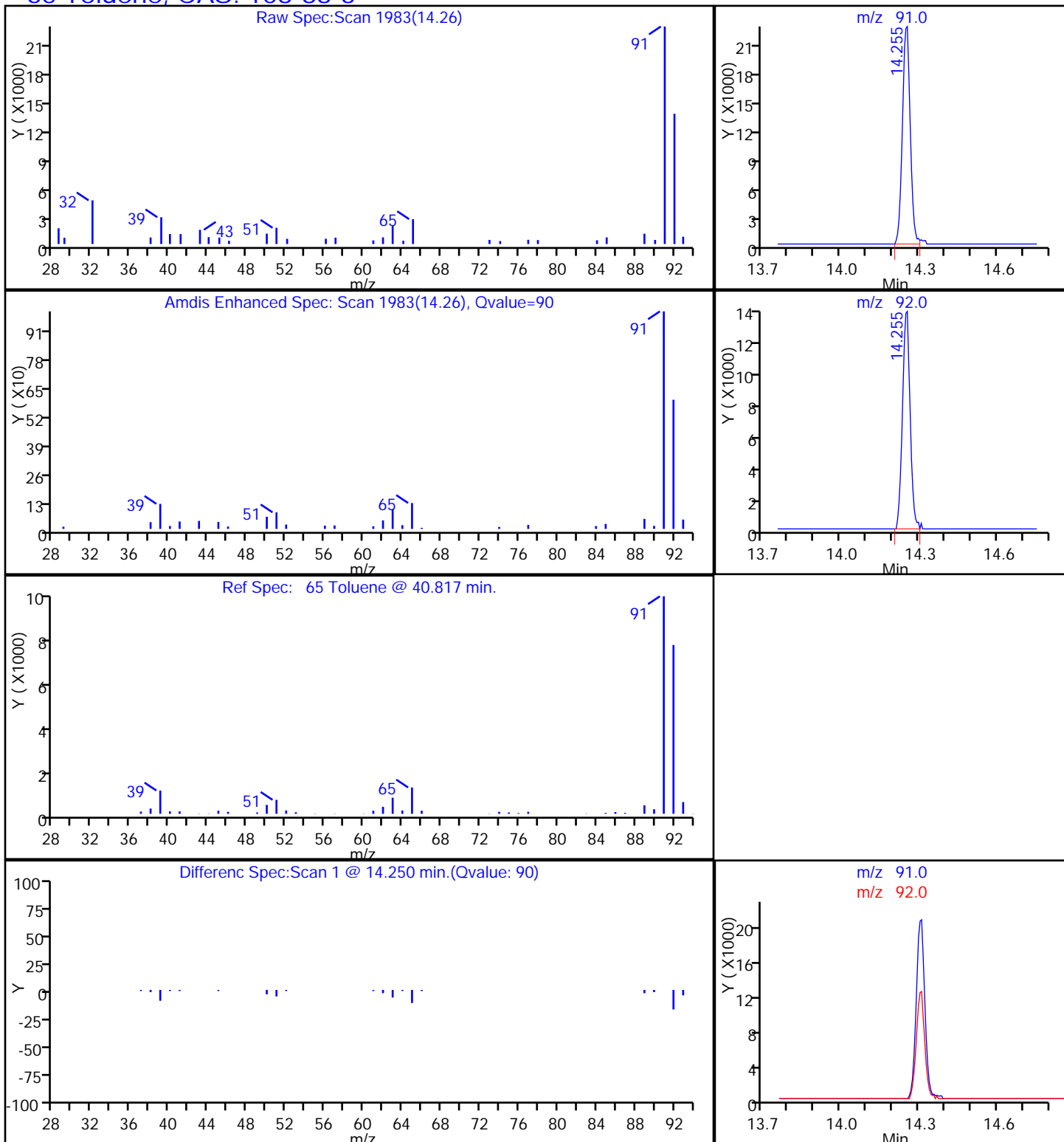
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P206.D

Injection Date: 19-Mar-2014 00:36:30

Instrument ID: MJ

Lims ID: 140-1063-A-3

Lab Sample ID: 140-1063-3

Client ID: IA6-E14

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

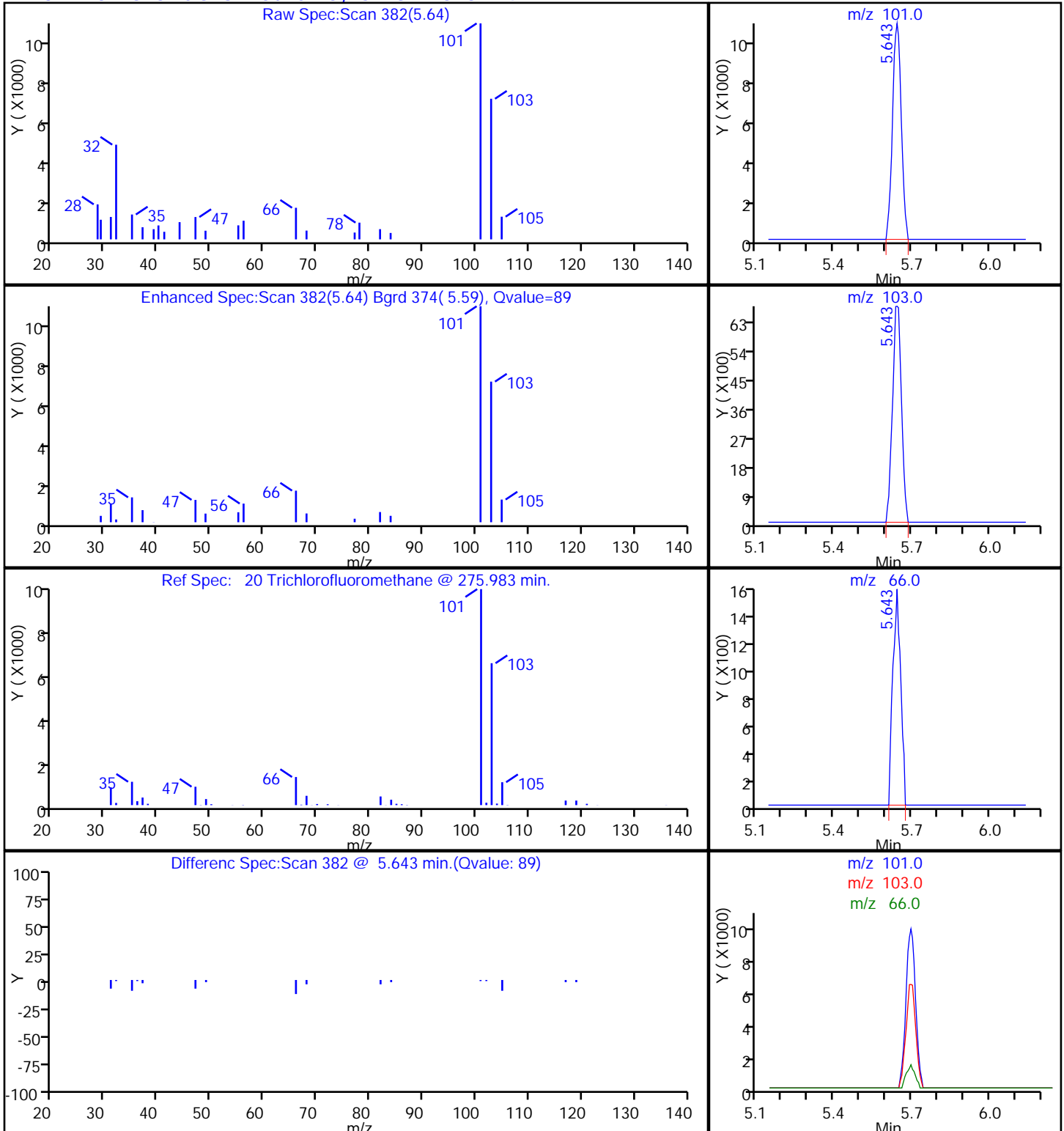
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4
 Matrix: Air Lab File ID: JC18P207.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:52
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.069	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.090	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.12	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.21	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.53		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.49	J	0.50	0.045
67-64-1	Acetone	58.08	2.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.31		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4
 Matrix: Air Lab File ID: JC18P207.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:52
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.075	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.37		0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.048	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	36		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.10	J	0.20	0.068
142-82-5	Heptane	100.21	0.086	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.22	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.8		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.42	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.30		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.12	J	0.20	0.061
115-07-1	Propene	42.08	0.77	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.19	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.62		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4
 Matrix: Air Lab File ID: JC18P207.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:52
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4
 Matrix: Air Lab File ID: JC18P207.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:52
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.44	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.58	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.61	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.6		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.0	J	2.0	0.18
67-64-1	Acetone	58.08	5.6	J	12	3.3
71-43-2	Benzene	78.11	0.98		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4
 Matrix: Air Lab File ID: JC18P207.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:52
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.47	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.8		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.17	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	67		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.44	J	0.87	0.30
142-82-5	Heptane	100.21	0.35	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.77	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.5	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.3		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.51	J	0.87	0.26
115-07-1	Propene	42.08	1.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.3	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA7-E14 Lab Sample ID: 140-1063-4
 Matrix: Air Lab File ID: JC18P207.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:52
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D
 Lims ID: 140-1063-A-4 Lab Sample ID: 140-1063-4
 Client ID: IA7-E14
 Sample Type: Client
 Inject. Date: 19-Mar-2014 01:31:30 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-4
 Misc. Info.: J031814,TO15,,140-0000527-013
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 13:00:34 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:00:34

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	355969	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.539	-0.005	94	1695531	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1347420	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	878362	3.69	
7 Propene	41	3.981	3.971	0.010	94	33515	0.3071	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	100	62092	0.1761	
9 Chloromethane	52	4.229	4.229	0.0	97	8214	0.2051	
17 Ethanol	31	5.116	5.116	0.0	95	409026	14.3	
19 2-Methylbutane	43	5.412	5.407	0.005	92	32318	0.2138	
20 Trichlorofluoromethane	101	5.638	5.644	-0.006	89	24838	0.0802	
23 Acetone	58	5.767	5.767	0.0	97	47878	0.9462	
24 Isopropyl alcohol	45	5.848	5.848	0.0	98	258768	1.94	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.585	6.580	0.005	62	5883	0.0274	
31 Methylene Chloride	84	6.752	6.757	-0.005	88	15999	0.1680	
39 2-Butanone (MEK)	72	8.602	8.586	0.016	92	2792	0.0829	
40 Hexane	56	8.640	8.635	0.005	90	8377	0.0875	
43 Chloroform	83	9.388	9.393	-0.005	22	30717	0.1481	
48 Benzene	78	11.023	11.023	0.0	95	35630	0.1225	
49 Cyclohexane	69	11.034	11.034	0.0	28	1101	0.0192	
50 Carbon tetrachloride	117	11.050	11.050	0.0	86	7162	0.0298	
53 Isooctane	57	11.760	11.760	0.0	91	24719	0.0498	
54 n-Heptane	71	12.115	12.120	-0.005	77	3521	0.0342	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	94	34957	0.1967	
65 Toluene	91	14.251	14.256	-0.005	90	61957	0.2479	
73 Tetrachloroethene	129	15.386	15.386	0.0	85	8720	0.0749	
76 Ethylbenzene	91	16.526	16.532	-0.006	61	11134	0.0403	
78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	94	26610	0.1194	
82 o-Xylene	91	17.209	17.215	-0.006	72	10597	0.0469	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	61	9387	0.0359	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Worklist Smp#: 13

Client ID: IA7-E14

Purge Vol: 500.000 mL

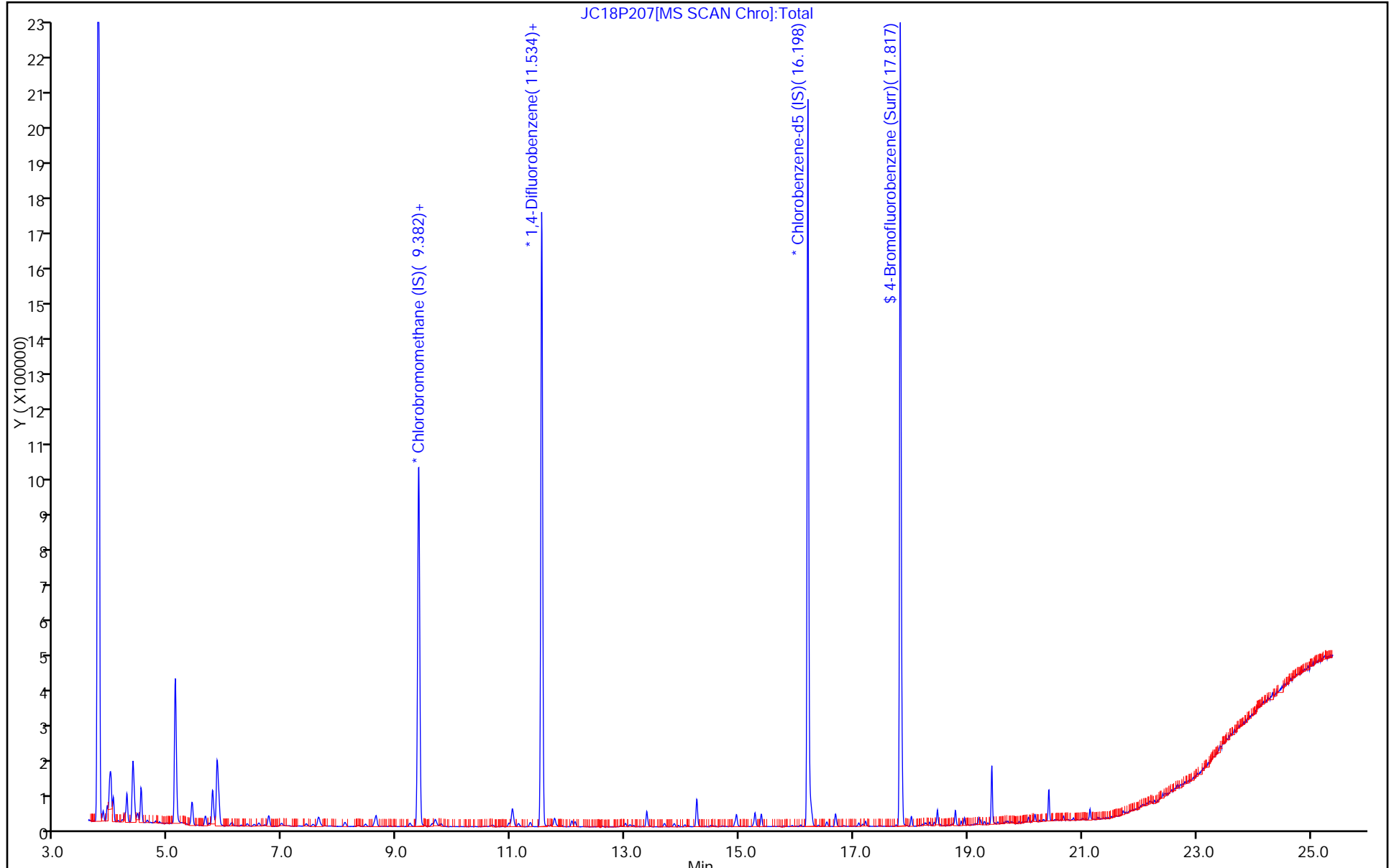
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

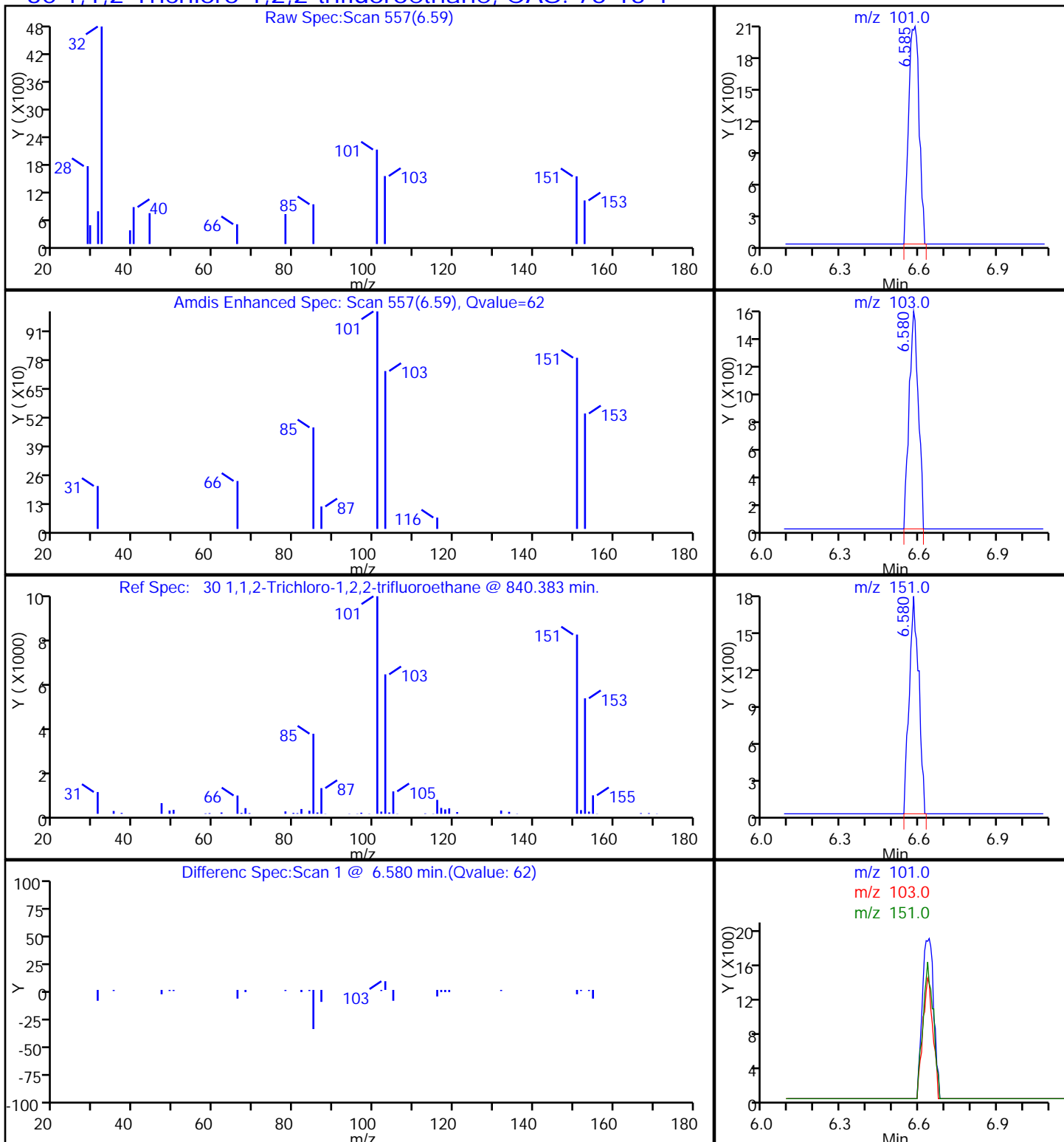
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

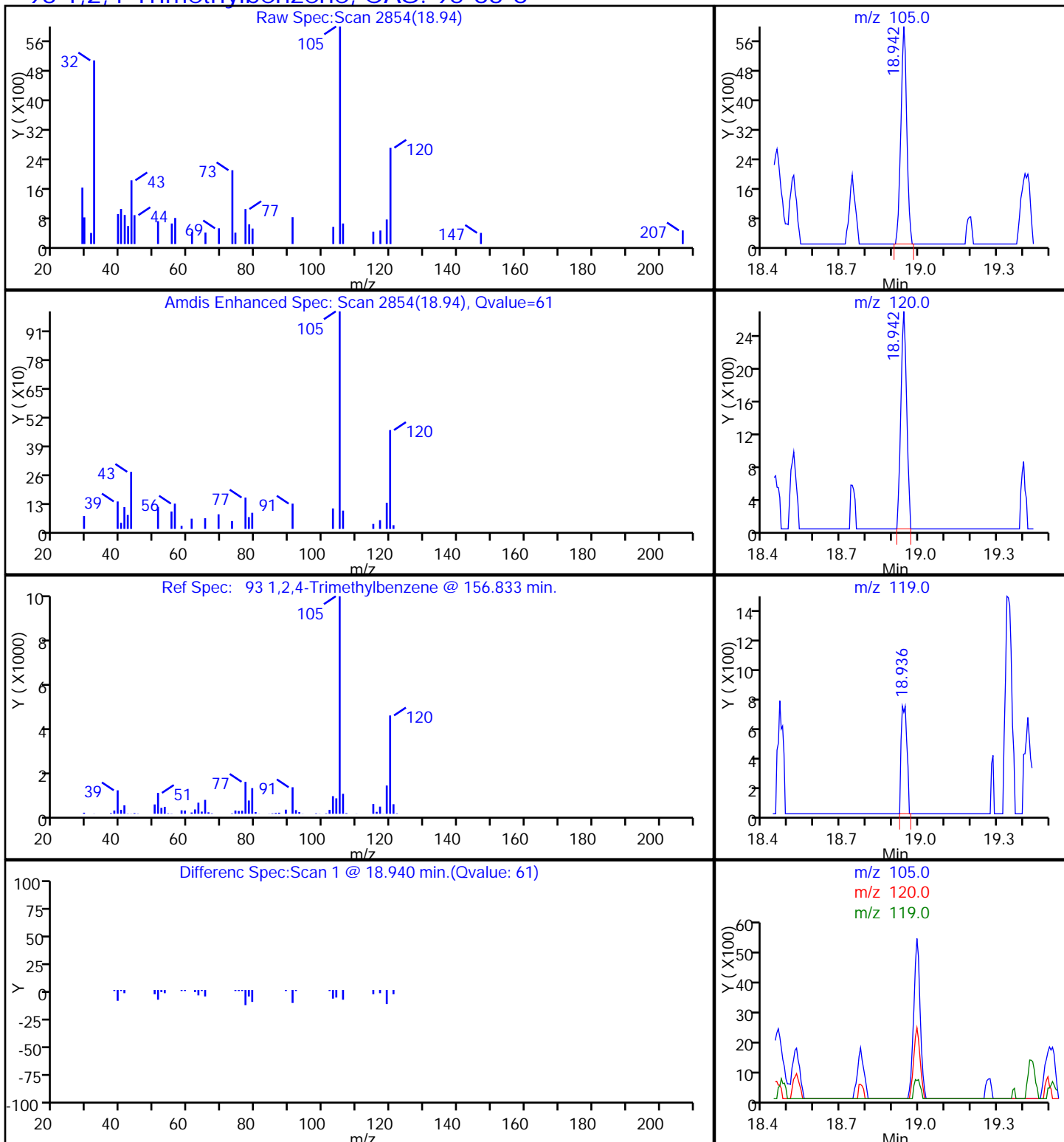
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

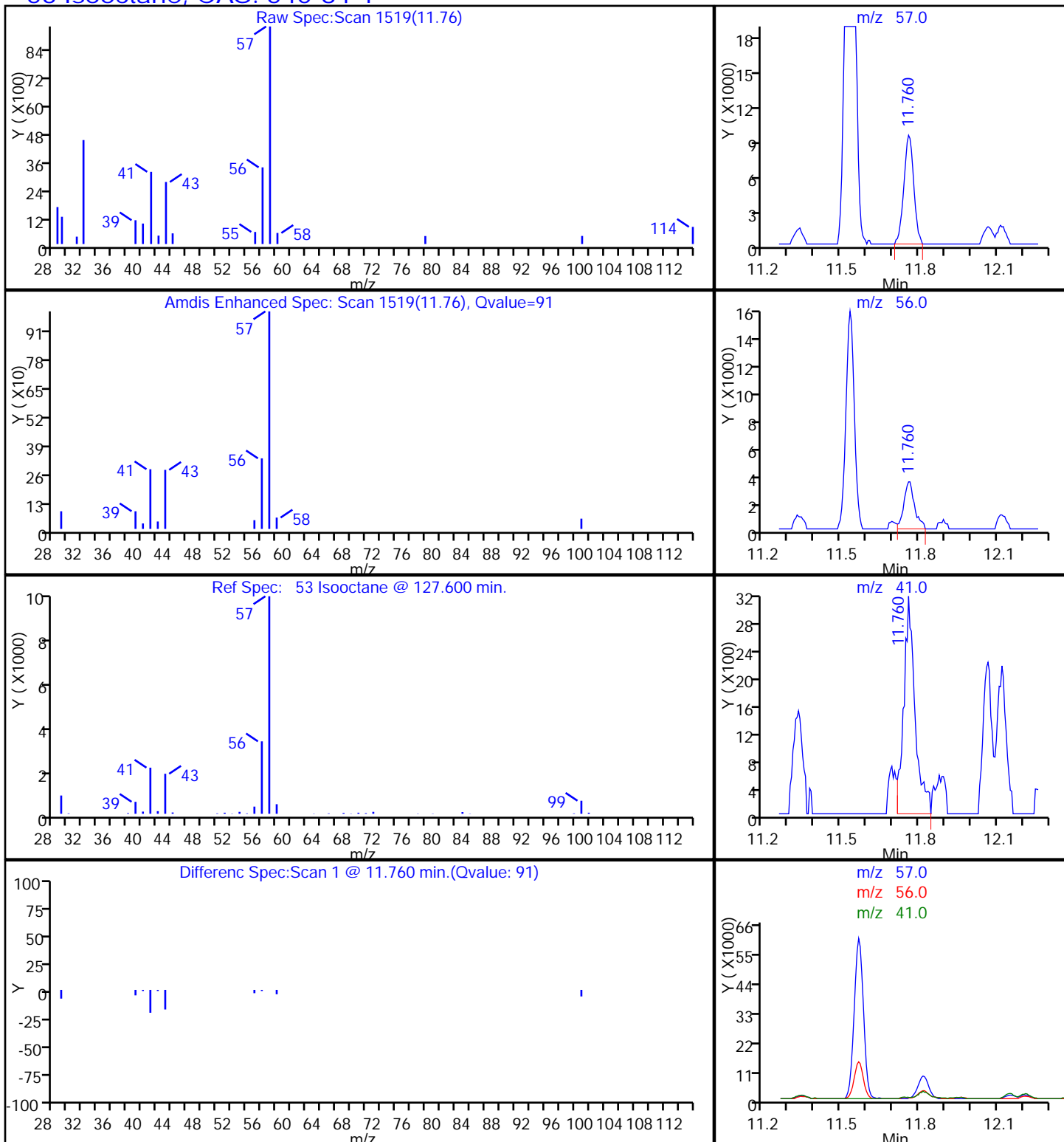
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

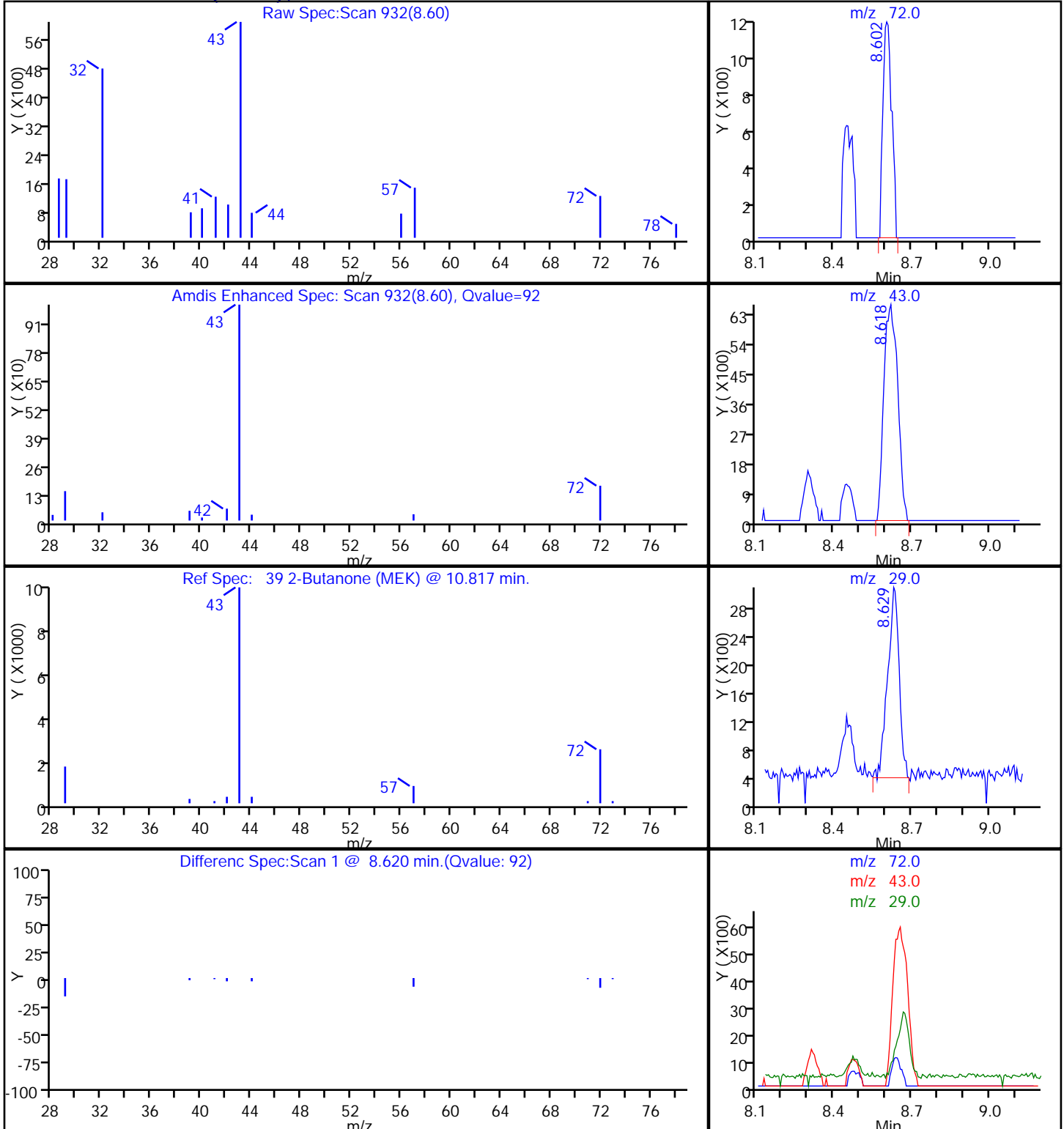
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

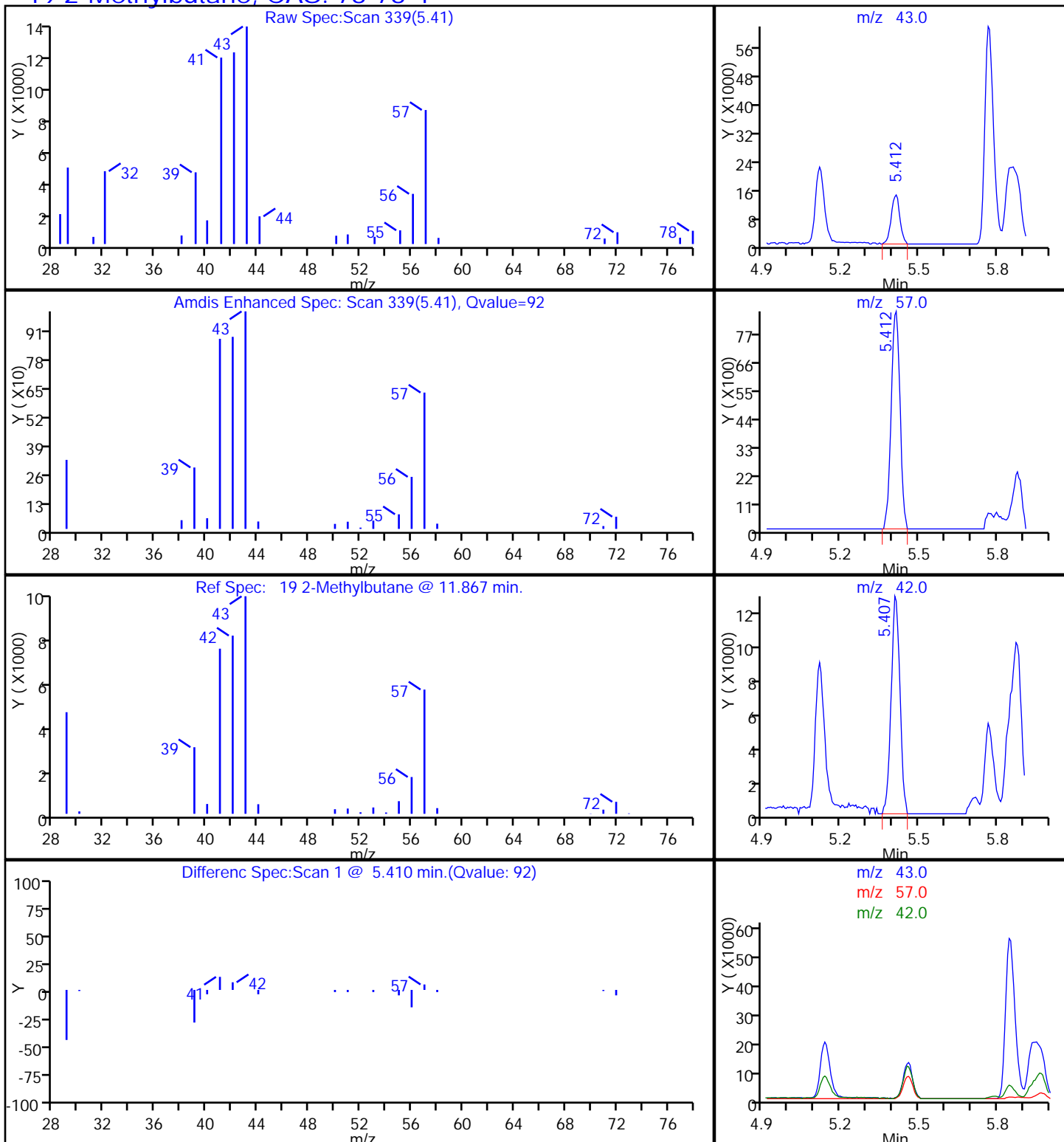
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

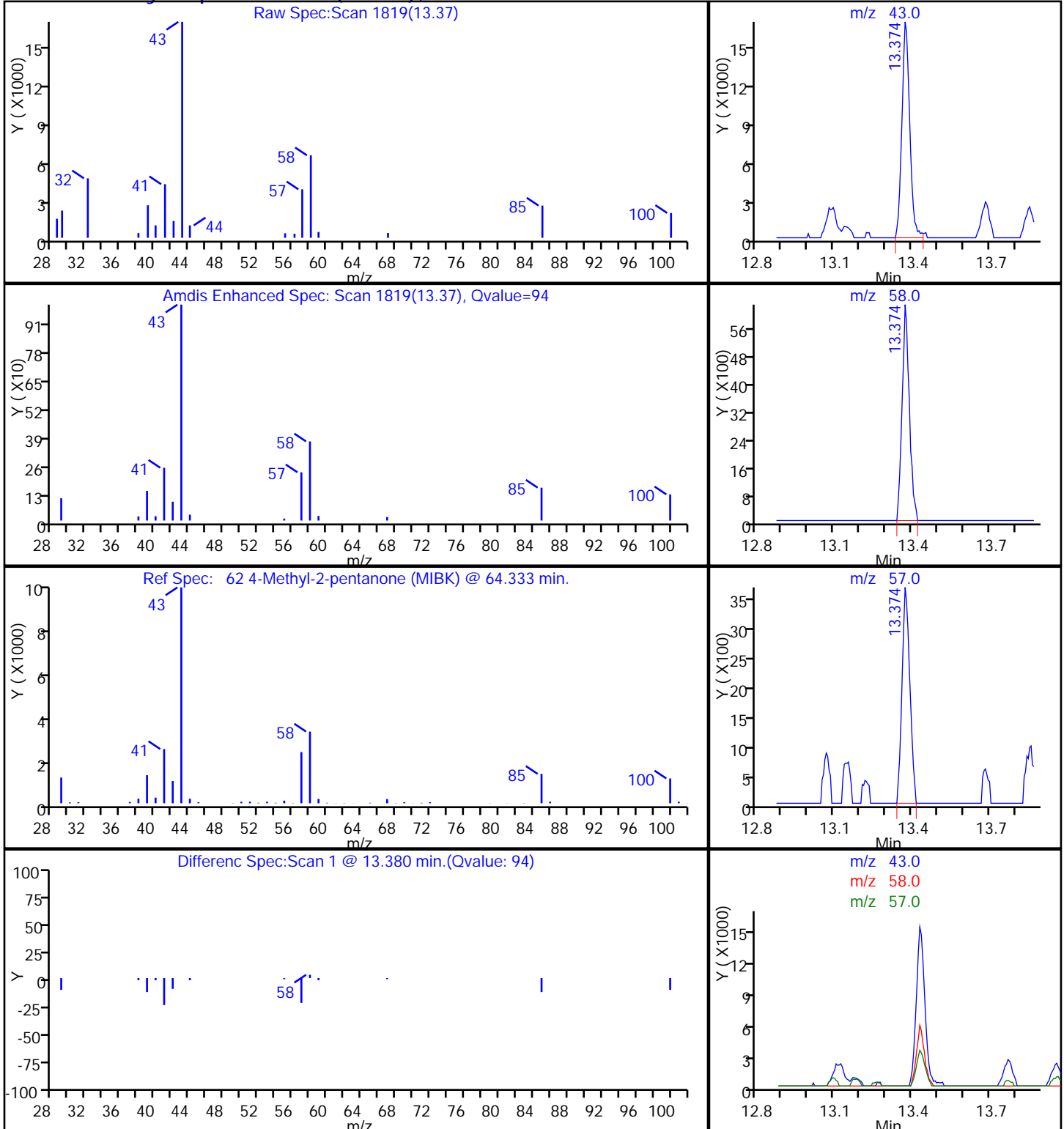
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

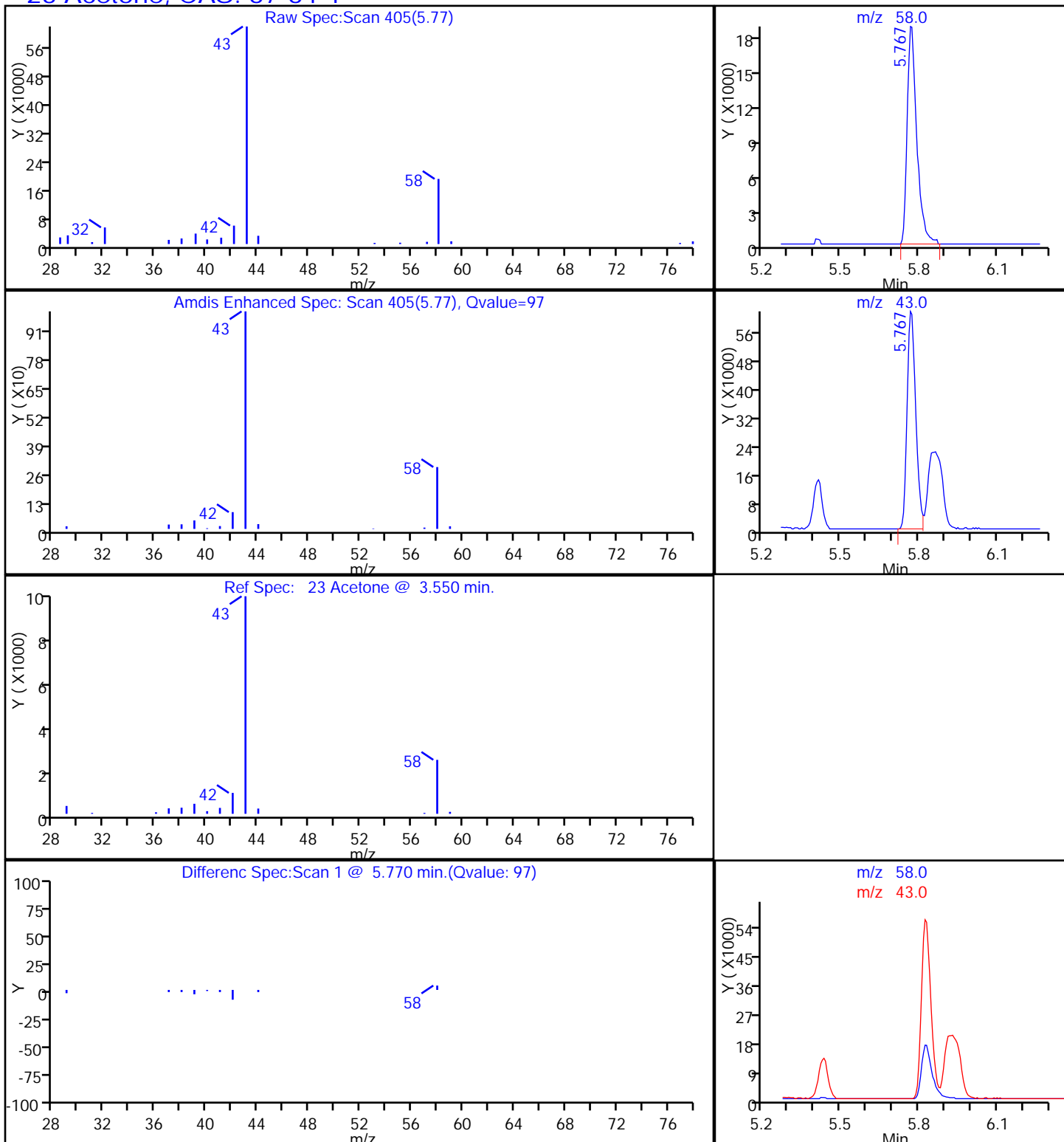
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

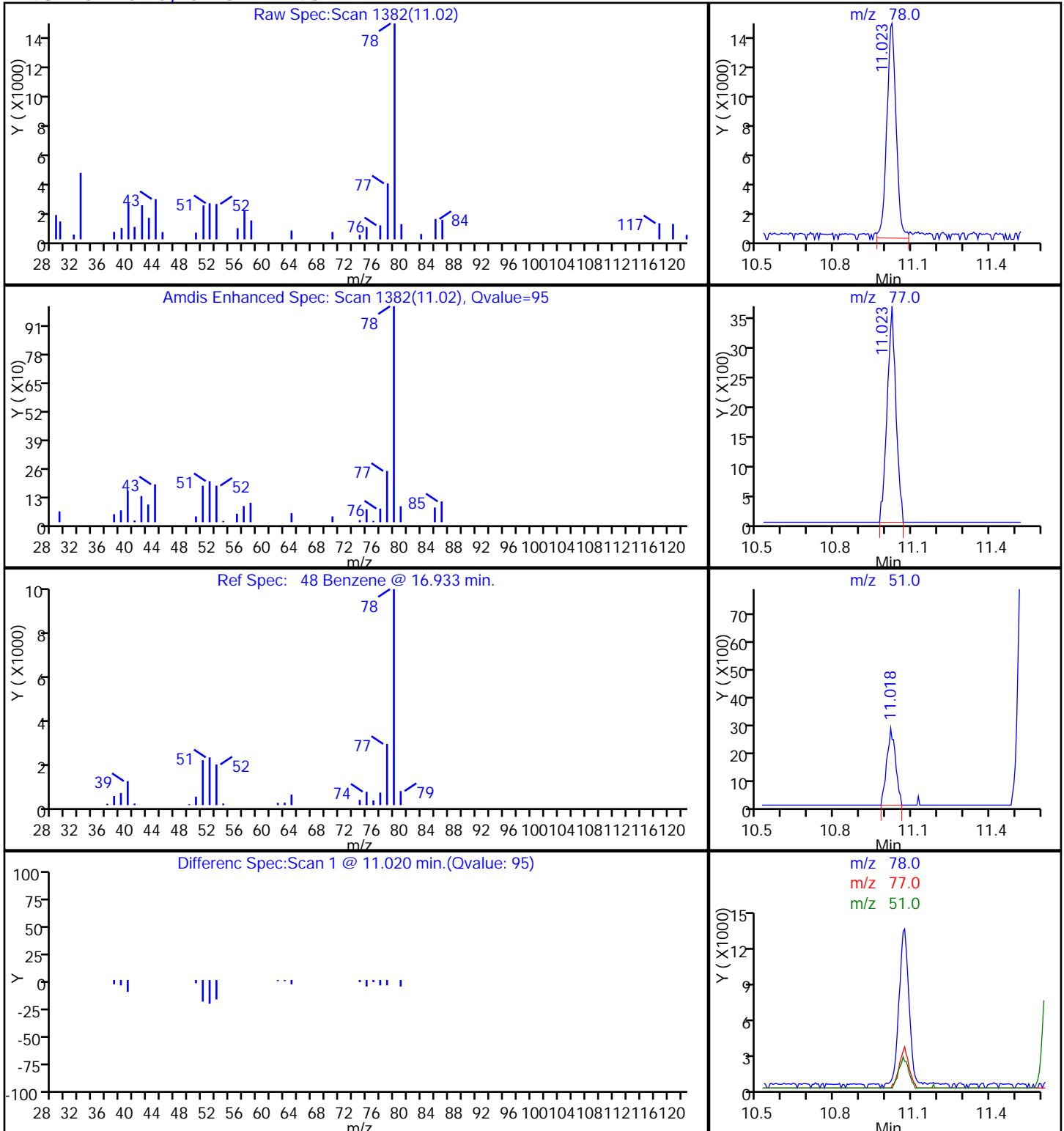
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

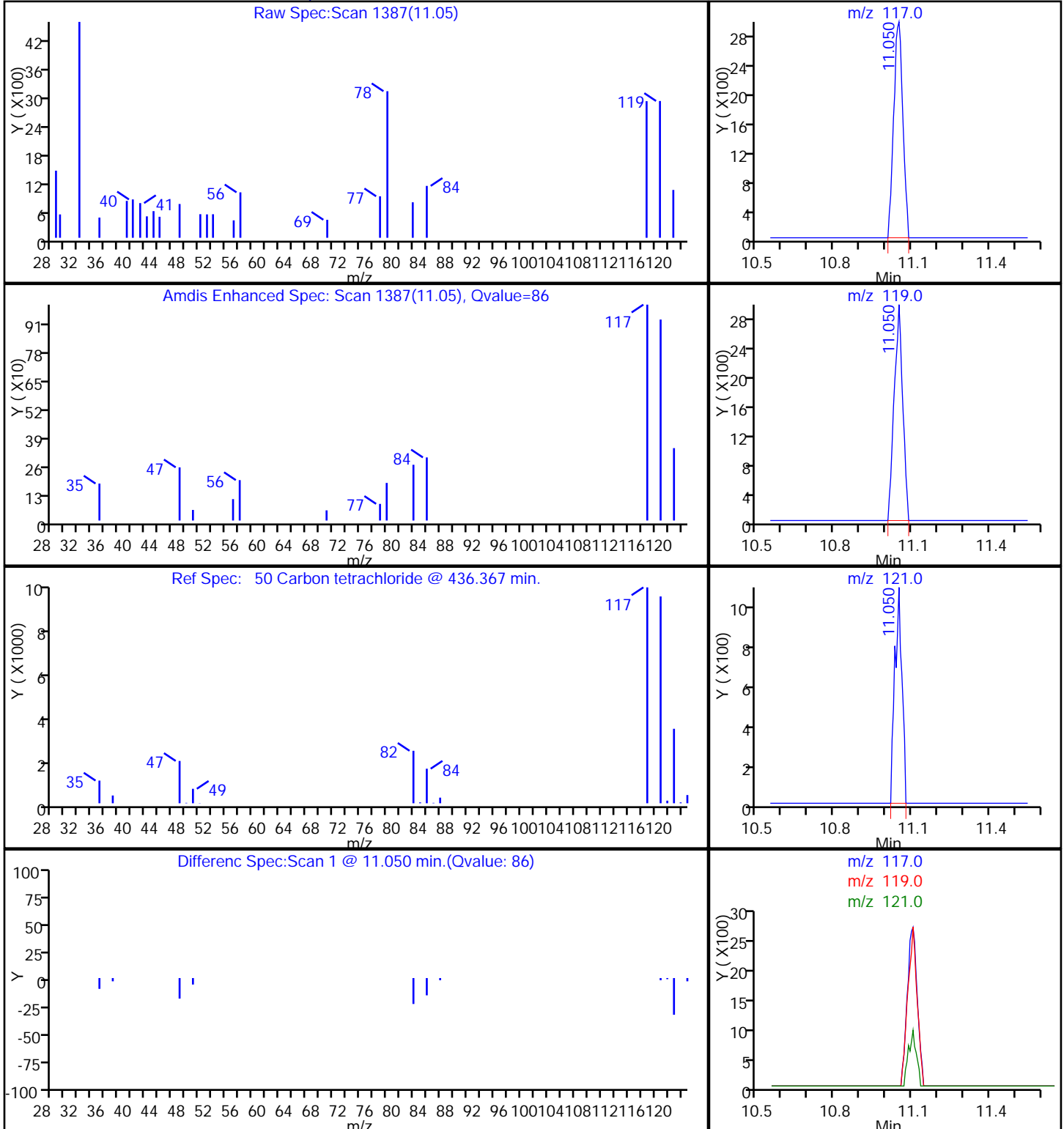
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

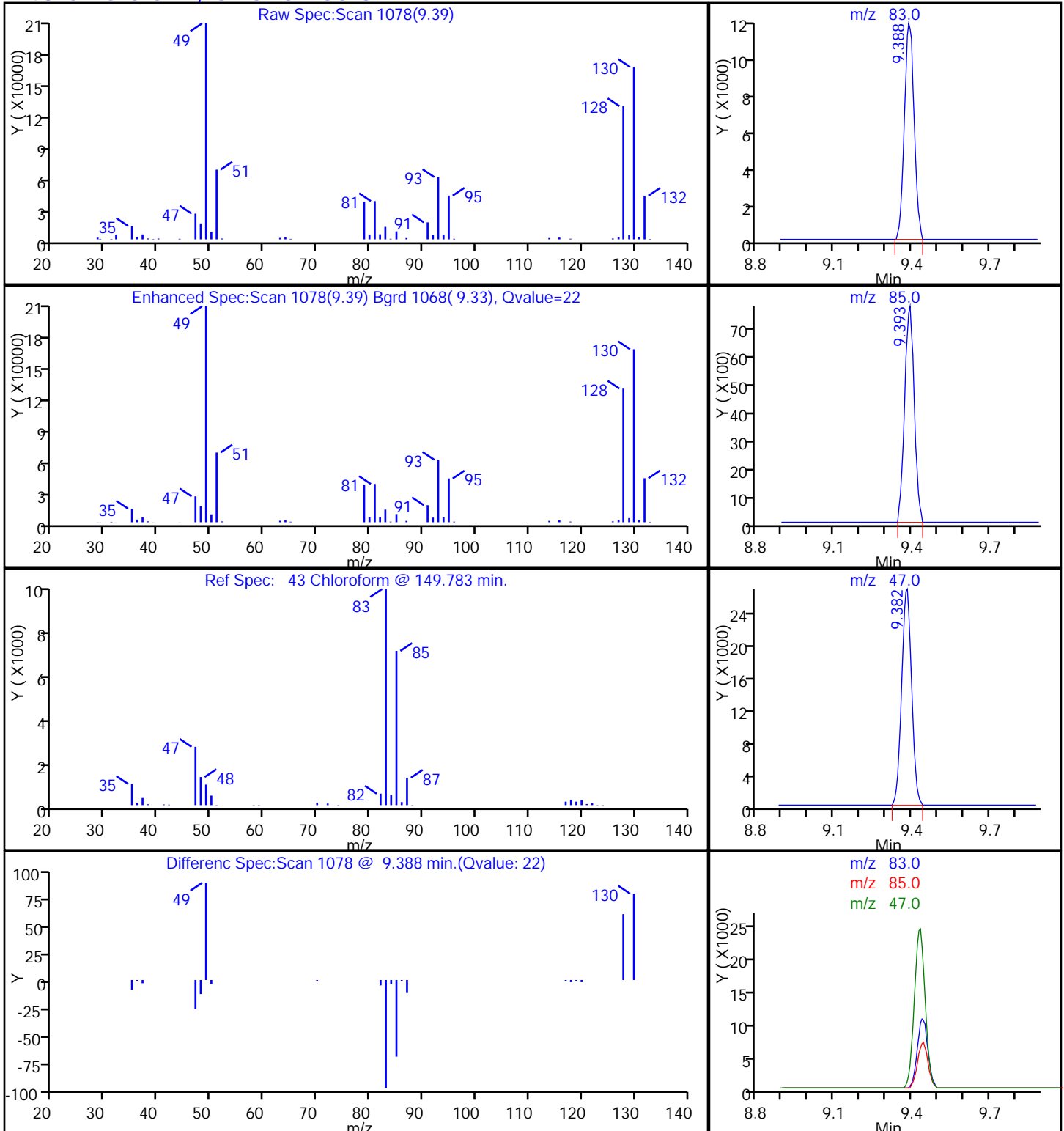
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

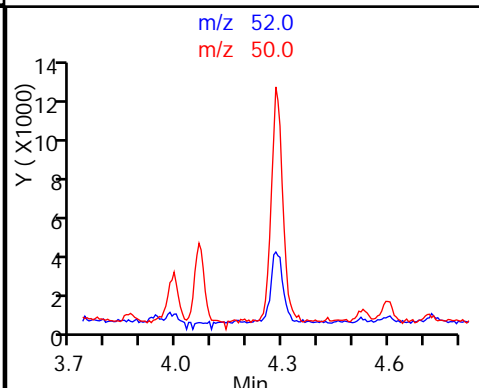
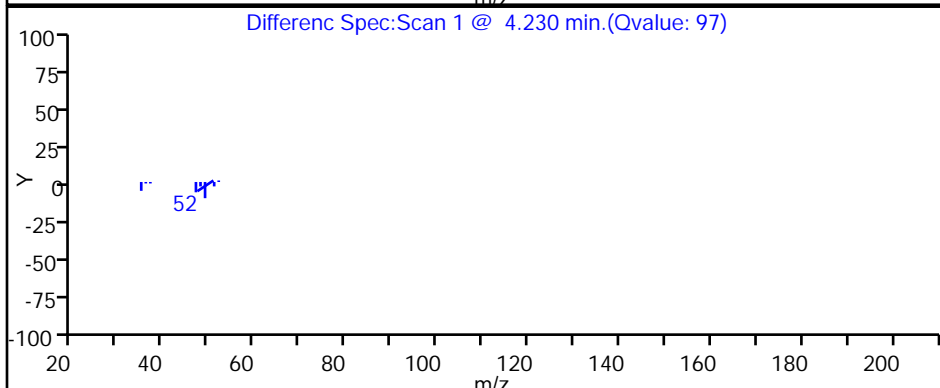
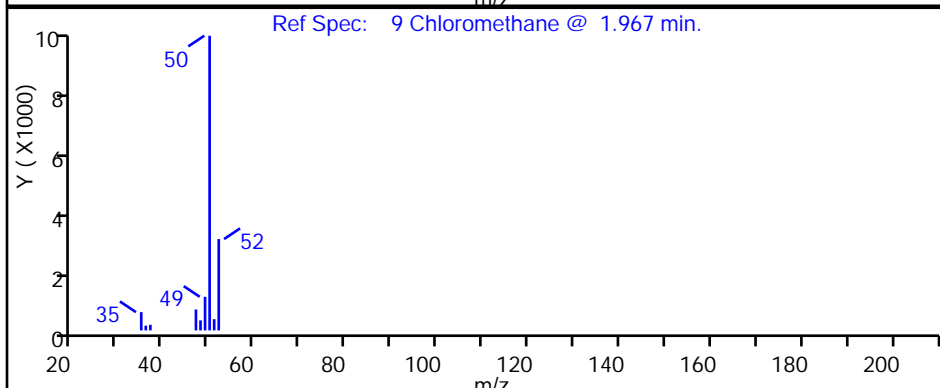
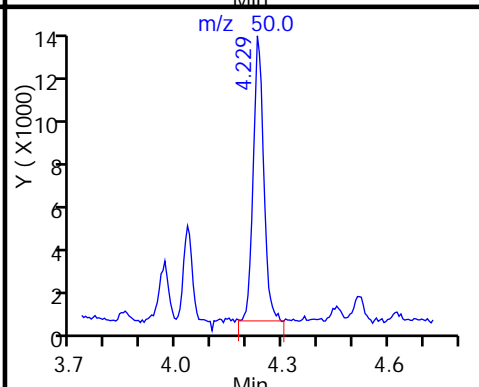
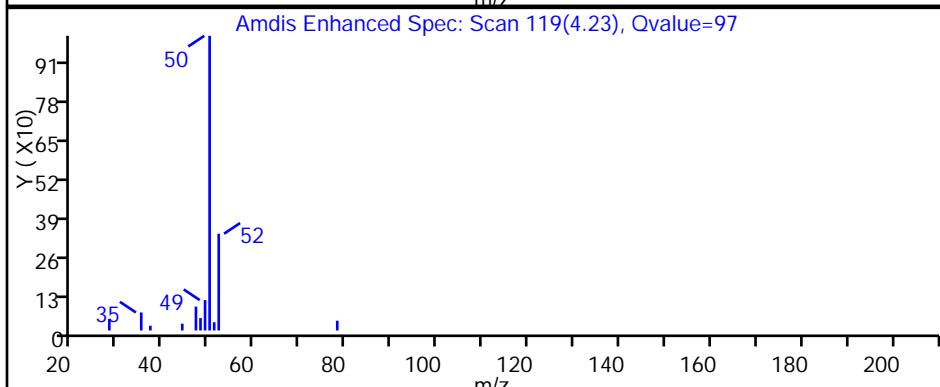
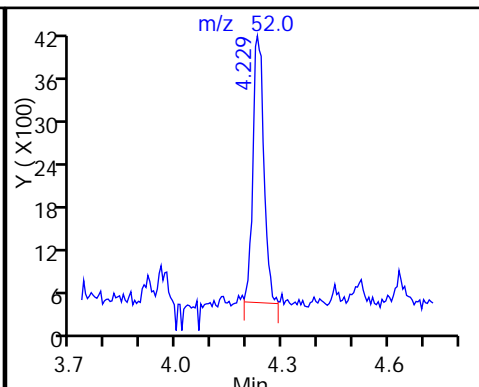
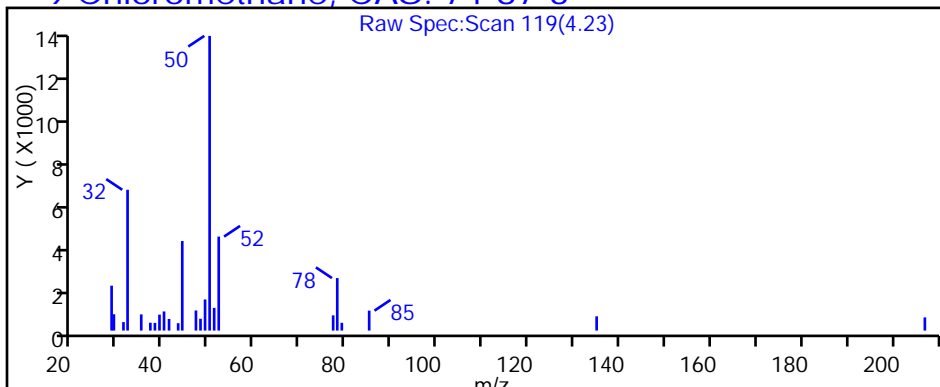
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

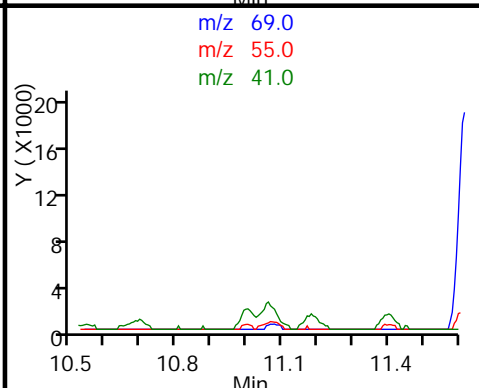
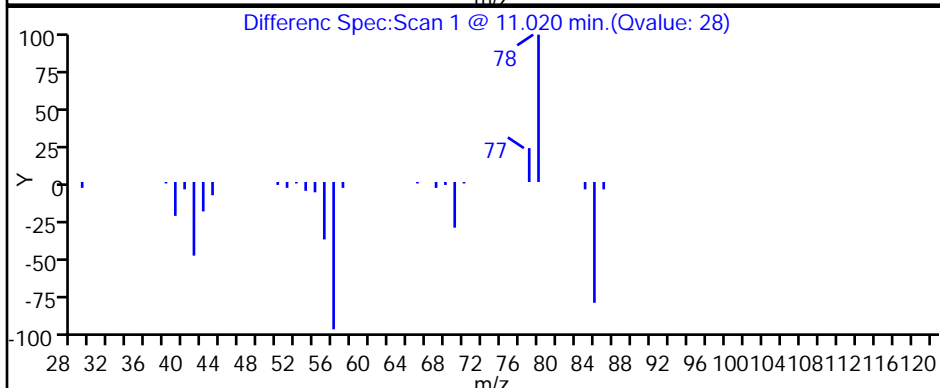
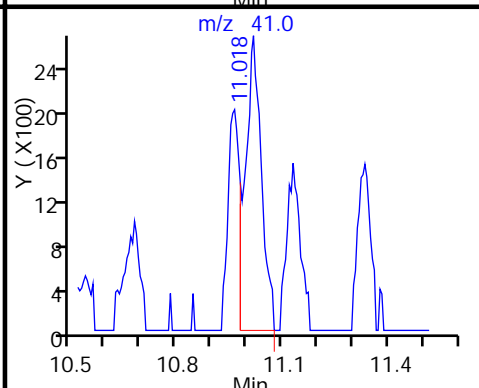
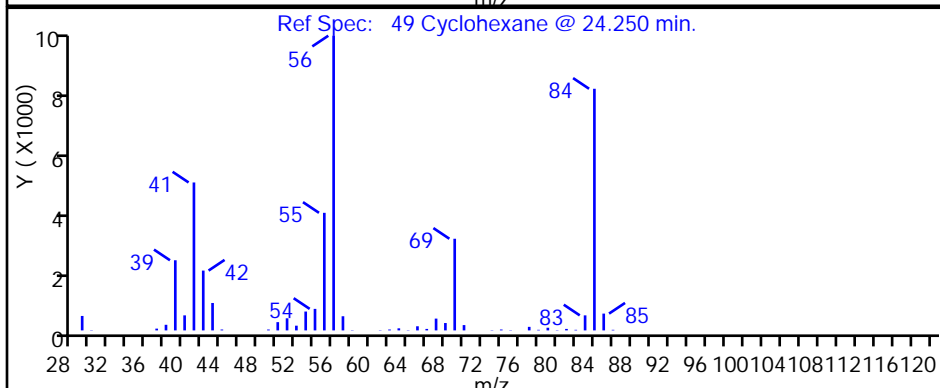
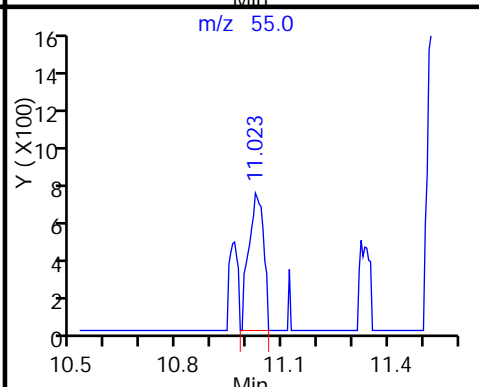
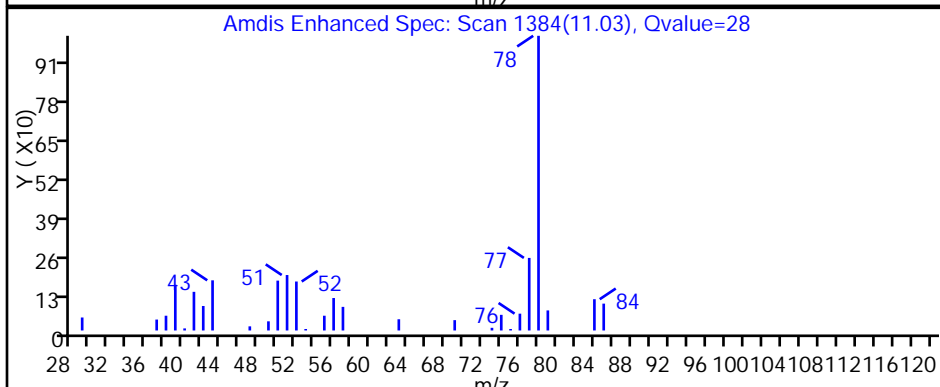
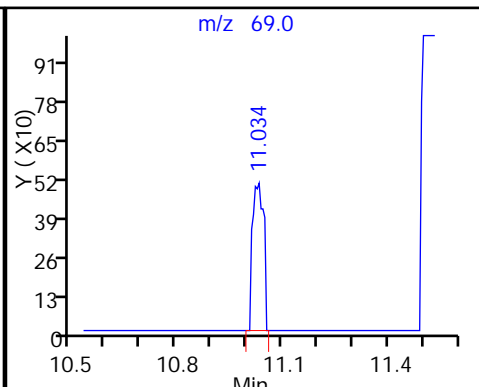
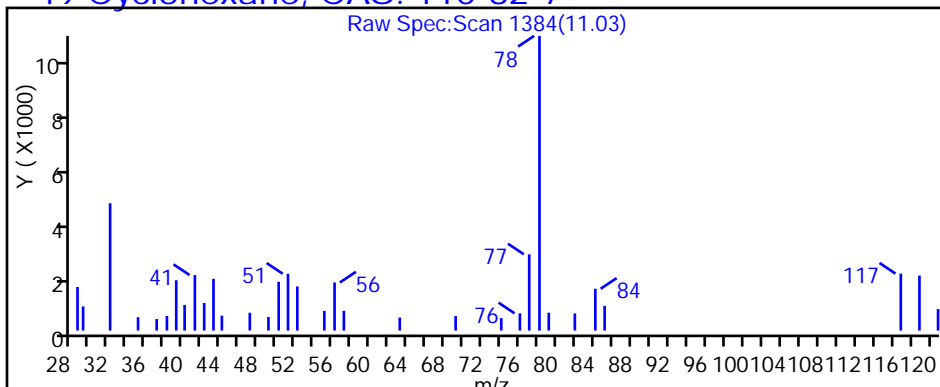
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

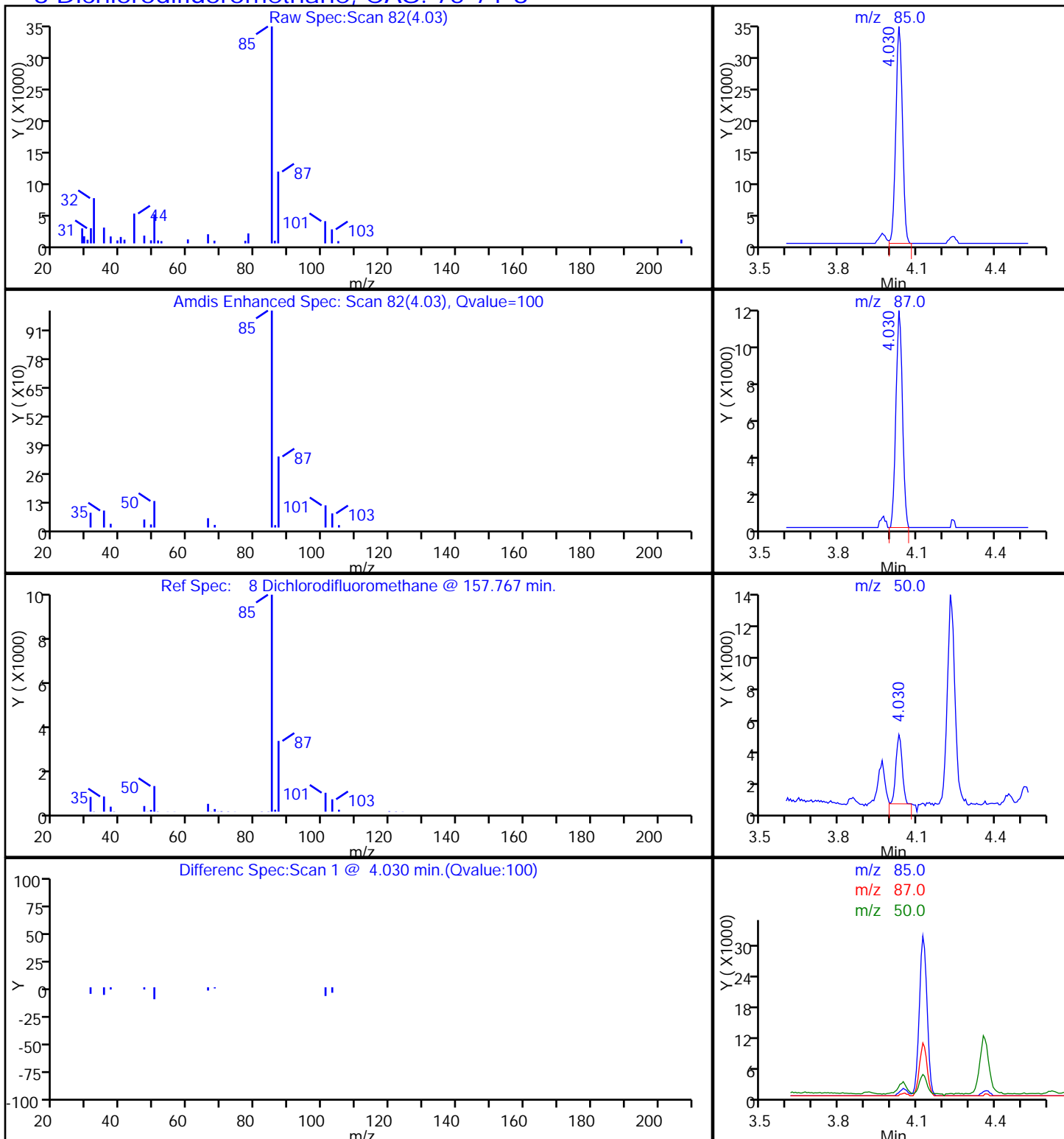
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

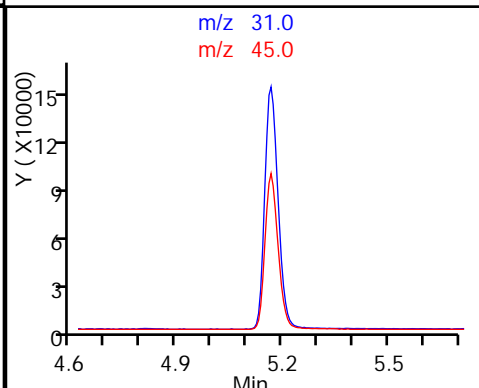
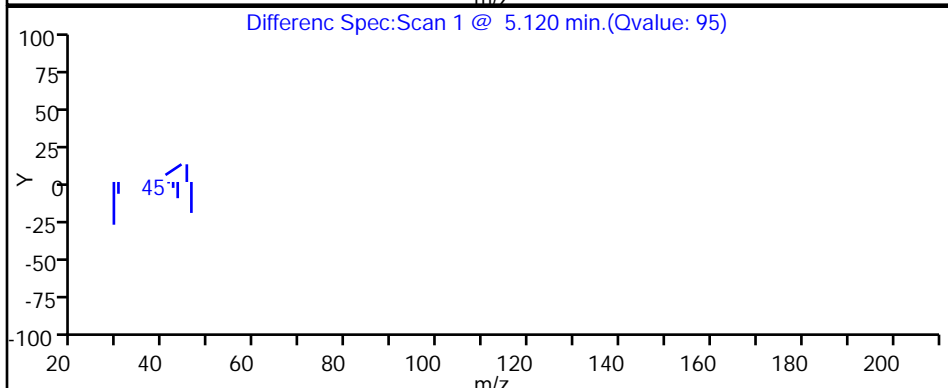
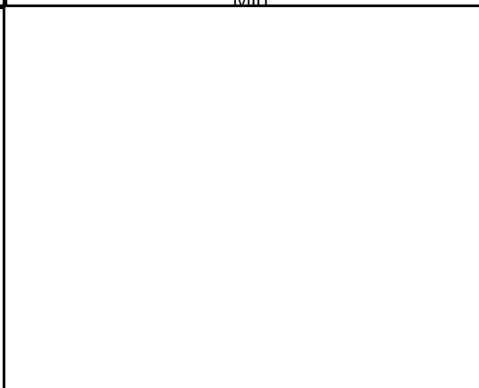
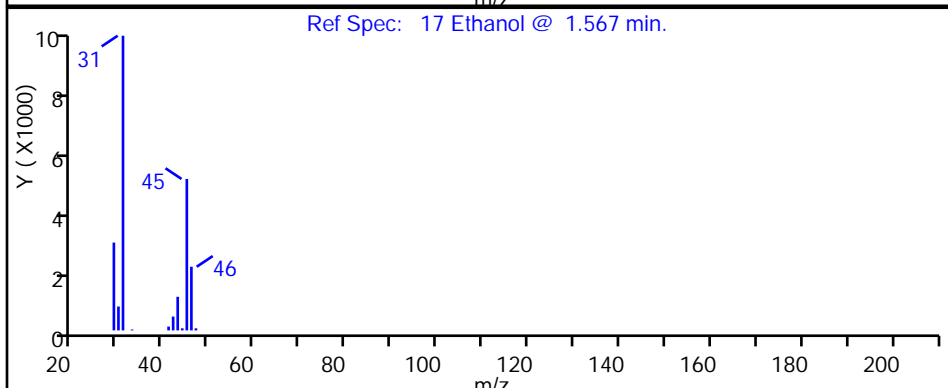
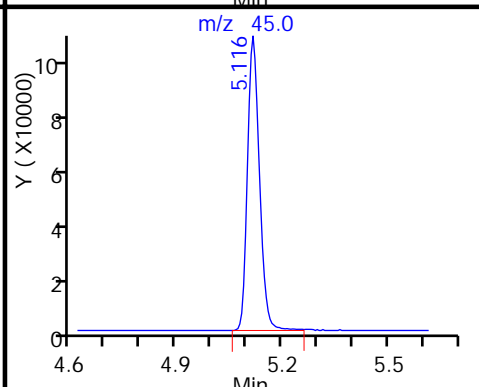
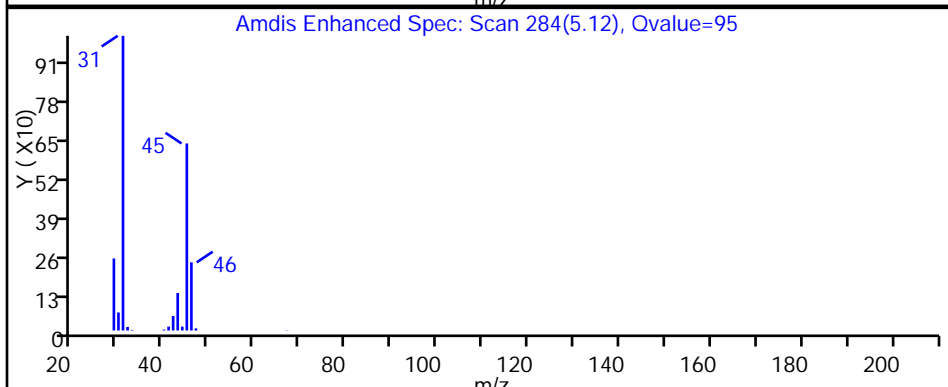
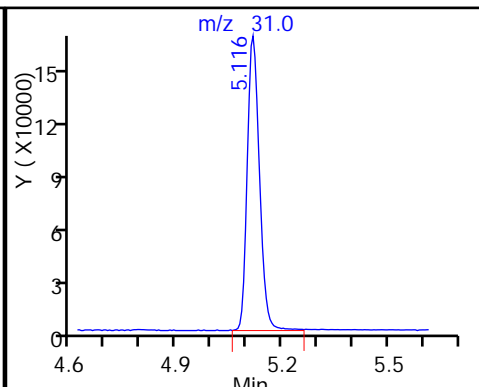
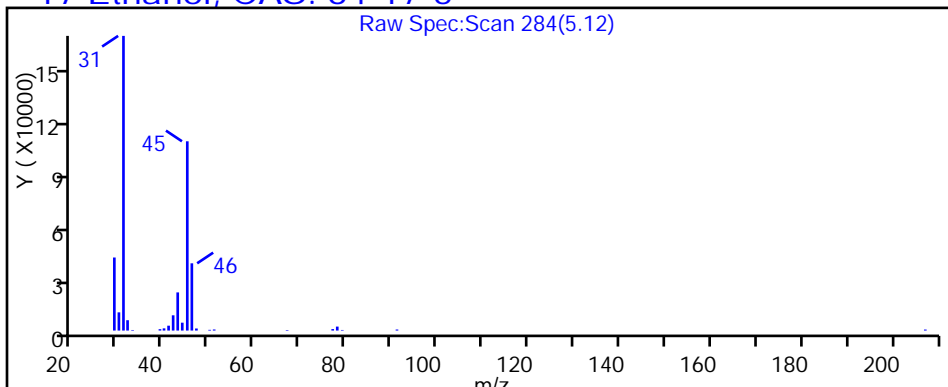
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

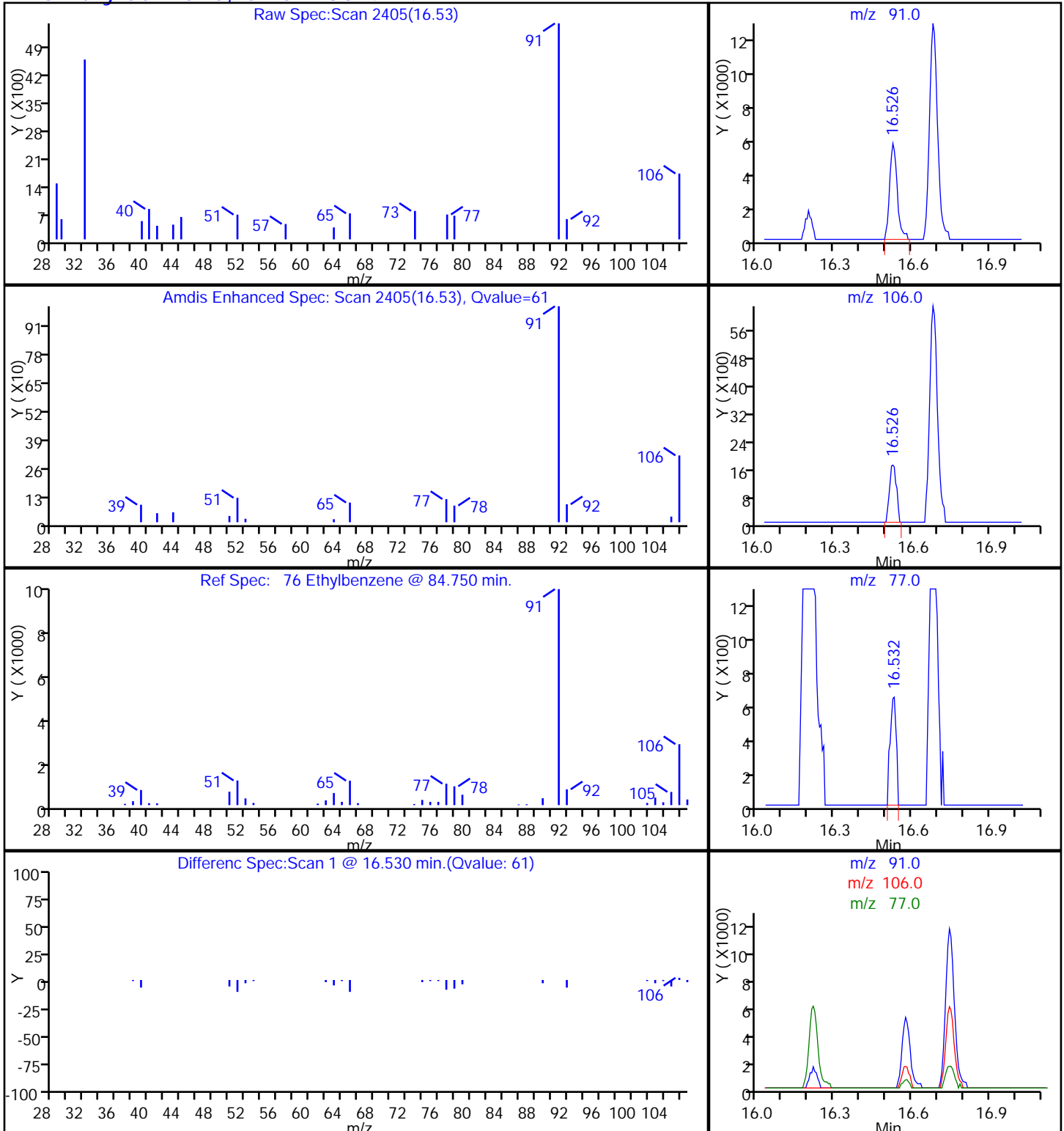
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

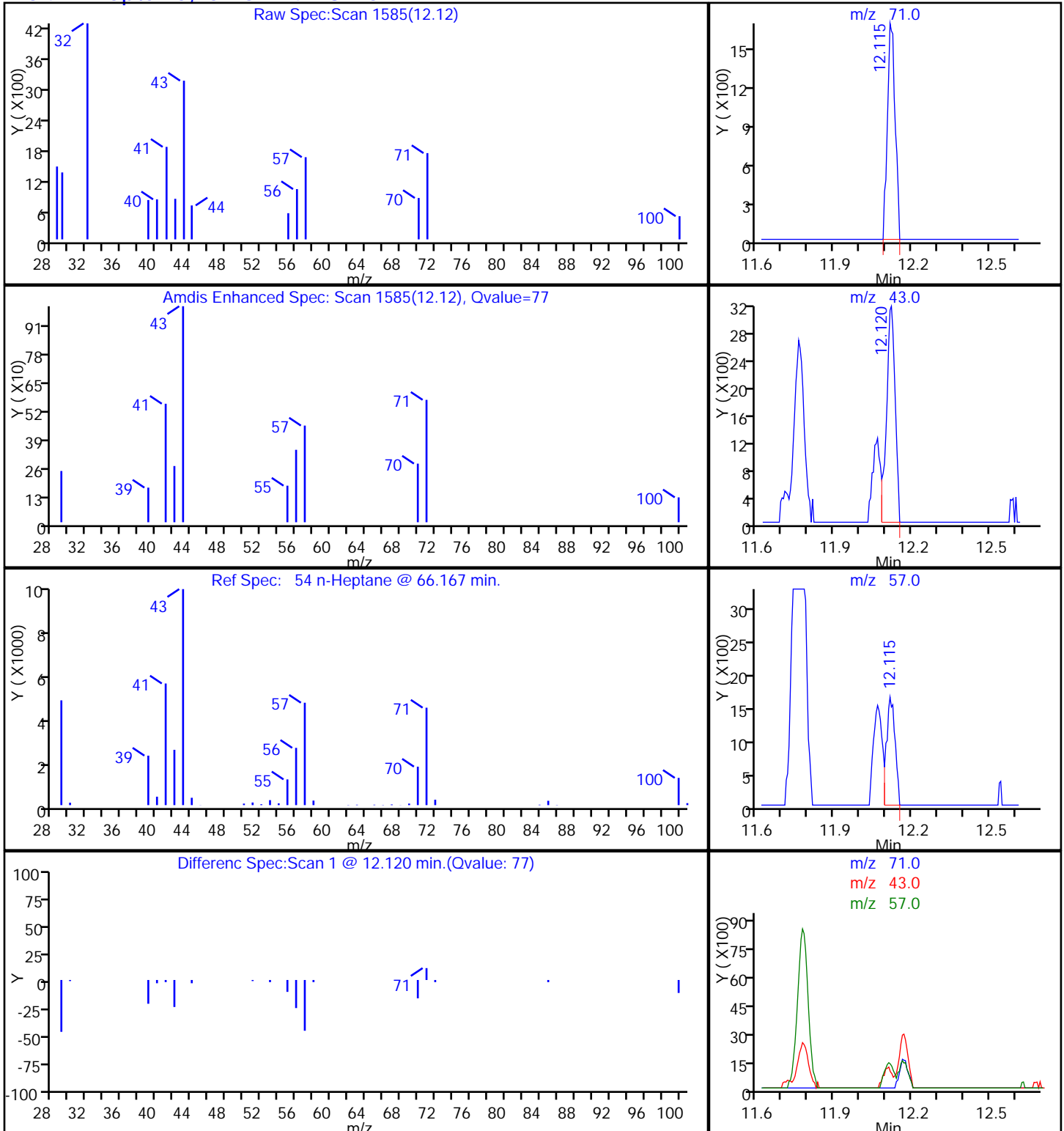
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

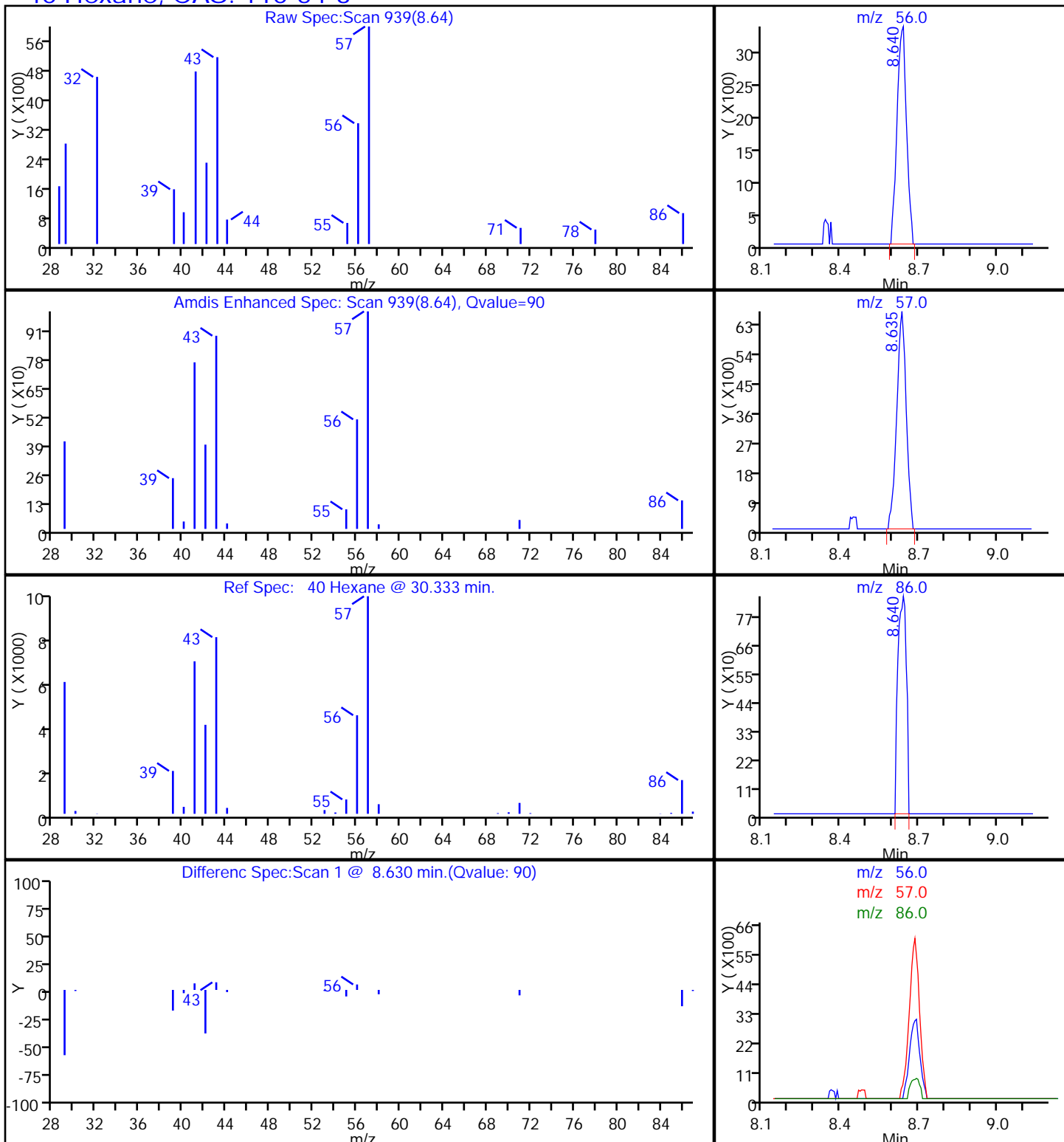
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

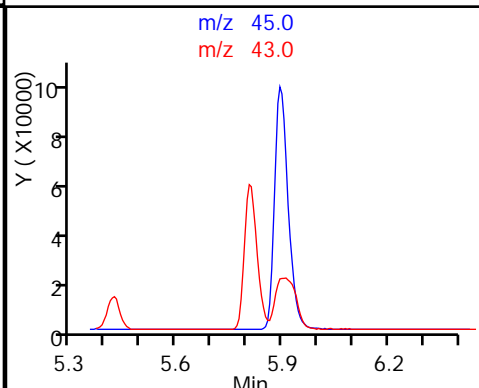
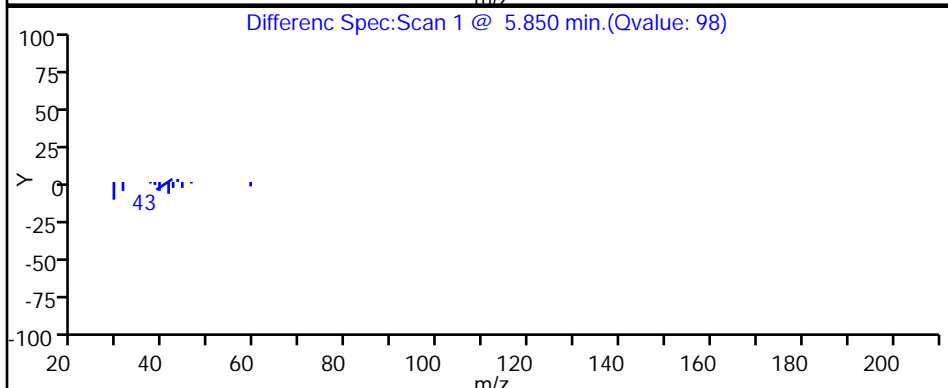
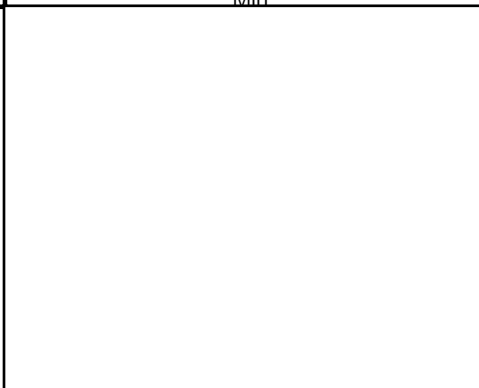
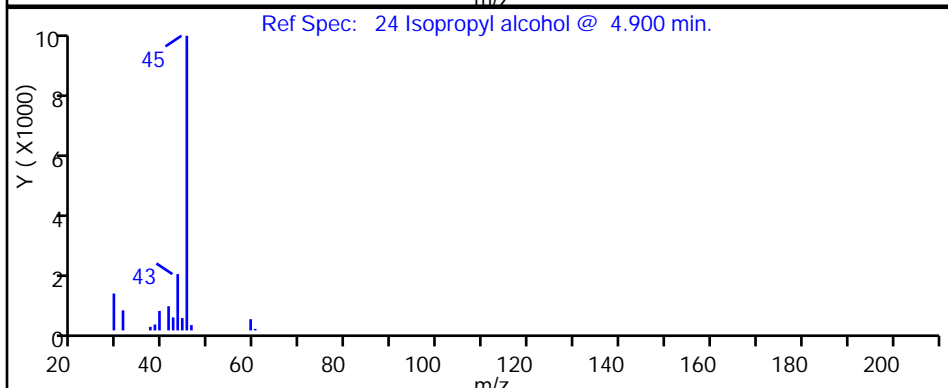
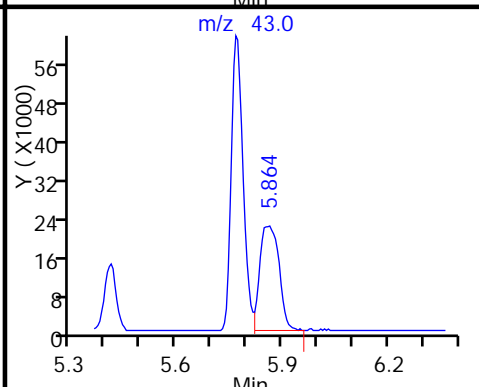
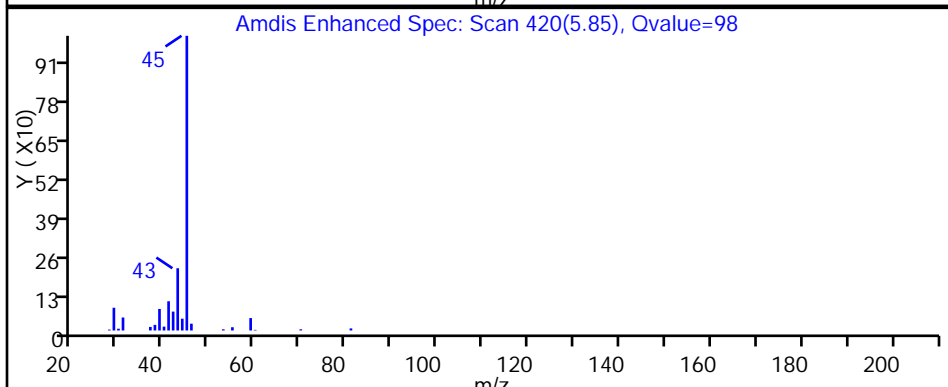
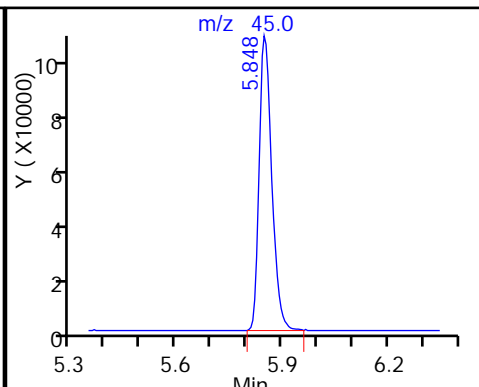
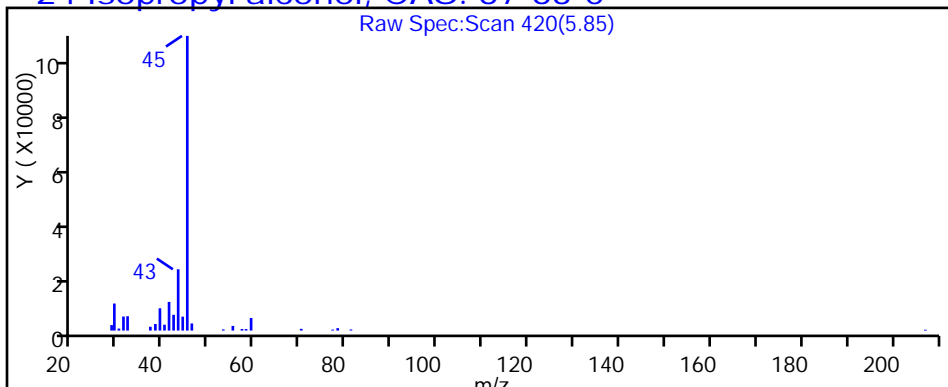
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

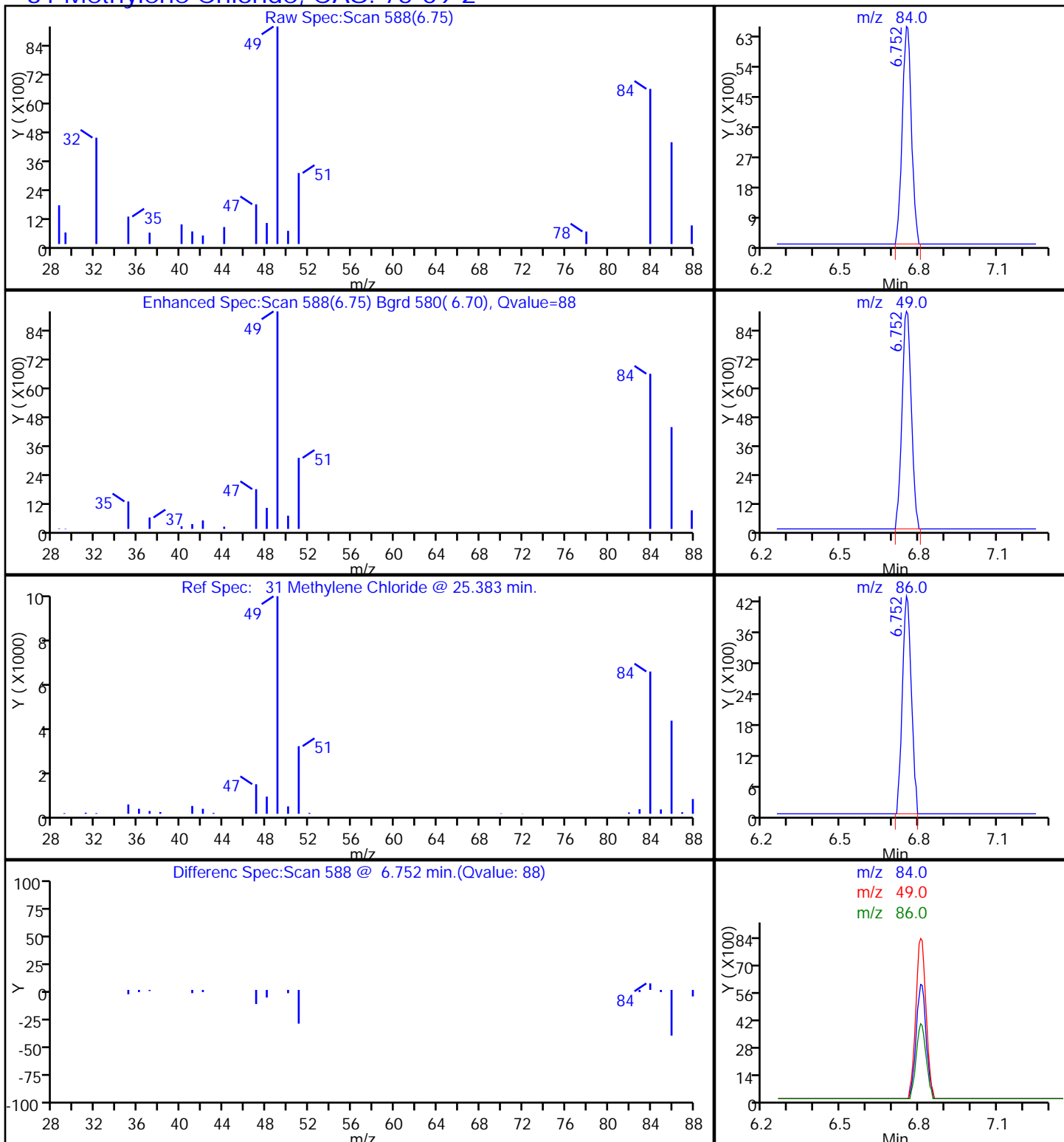
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

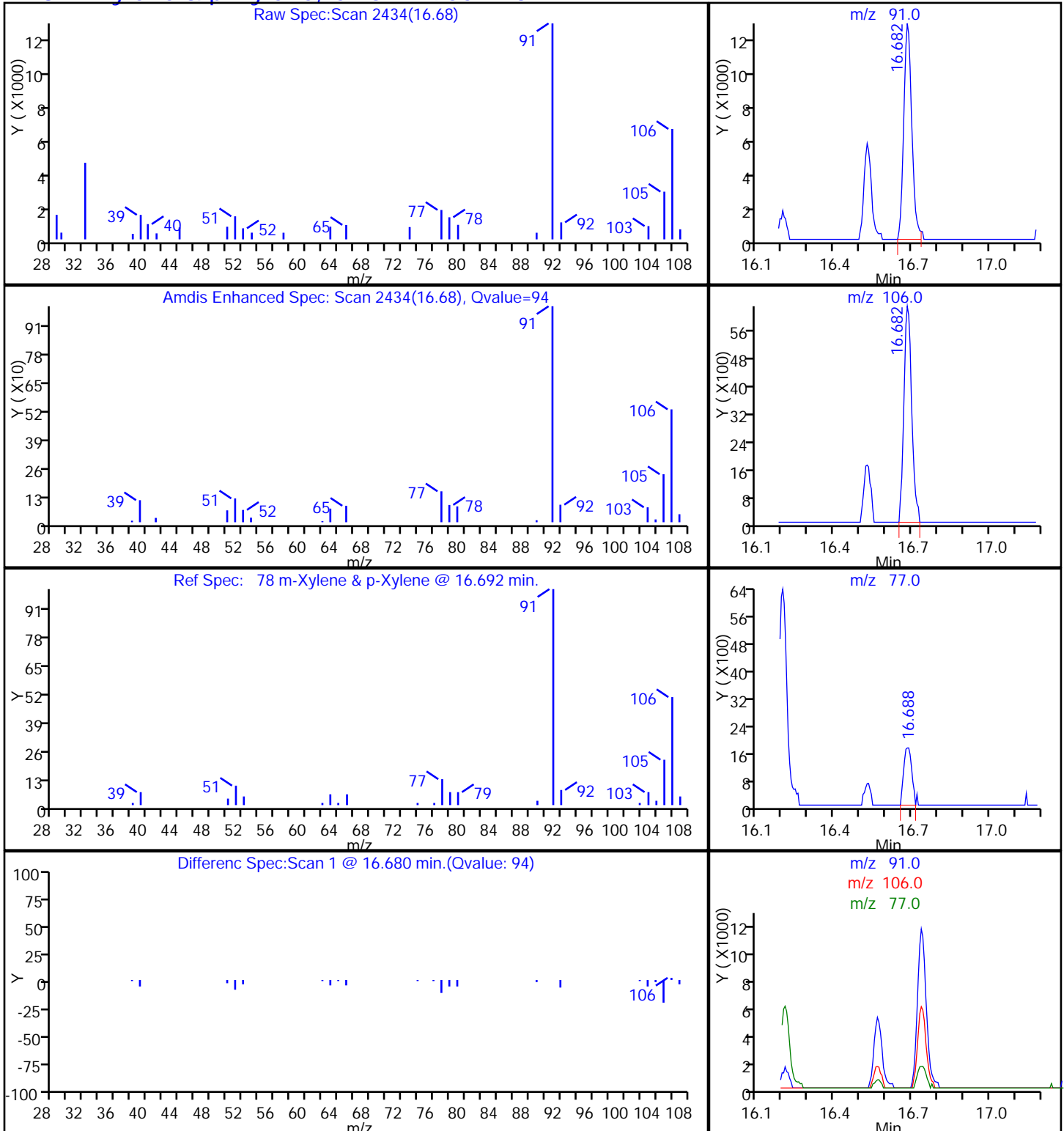
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

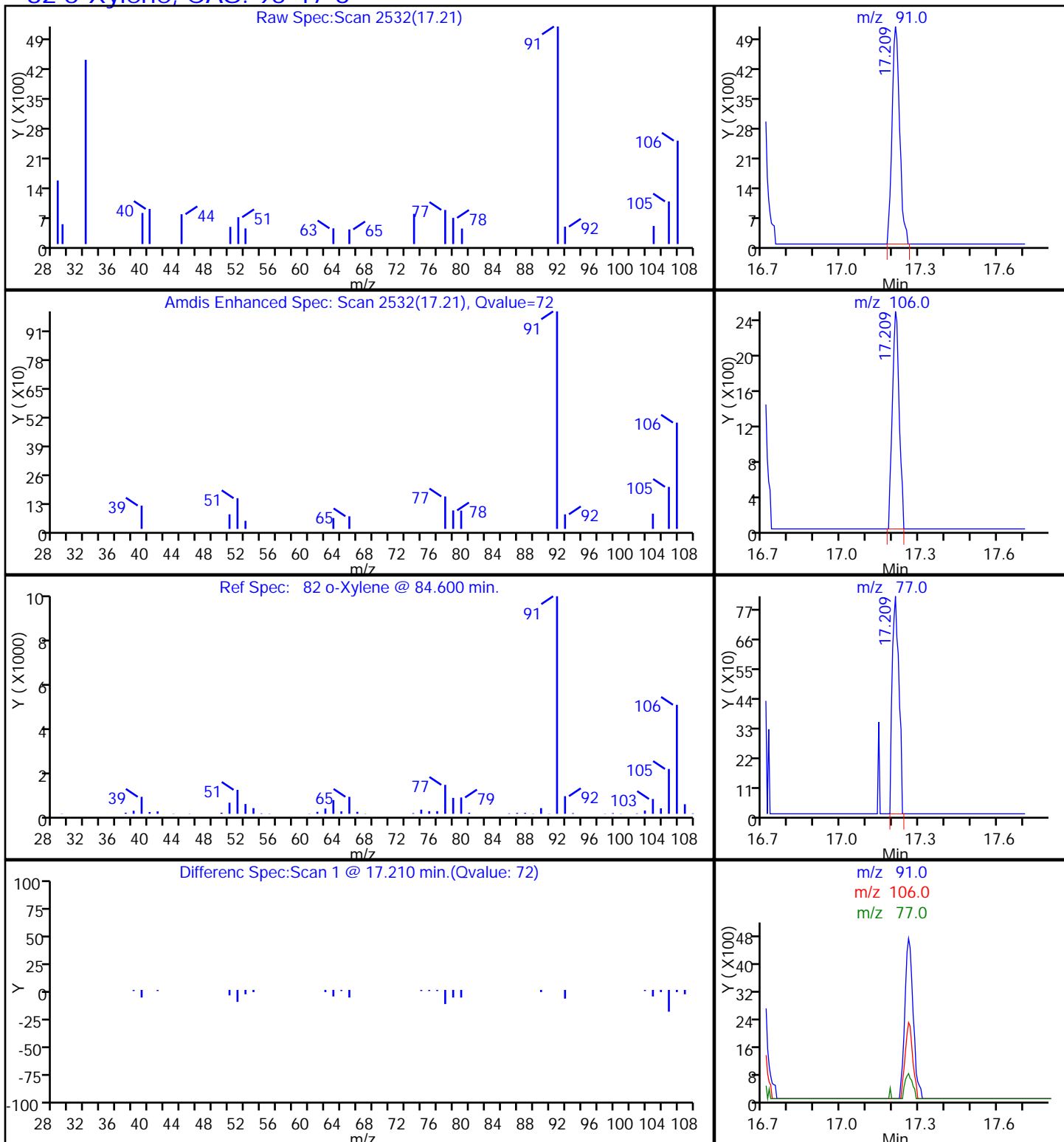
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

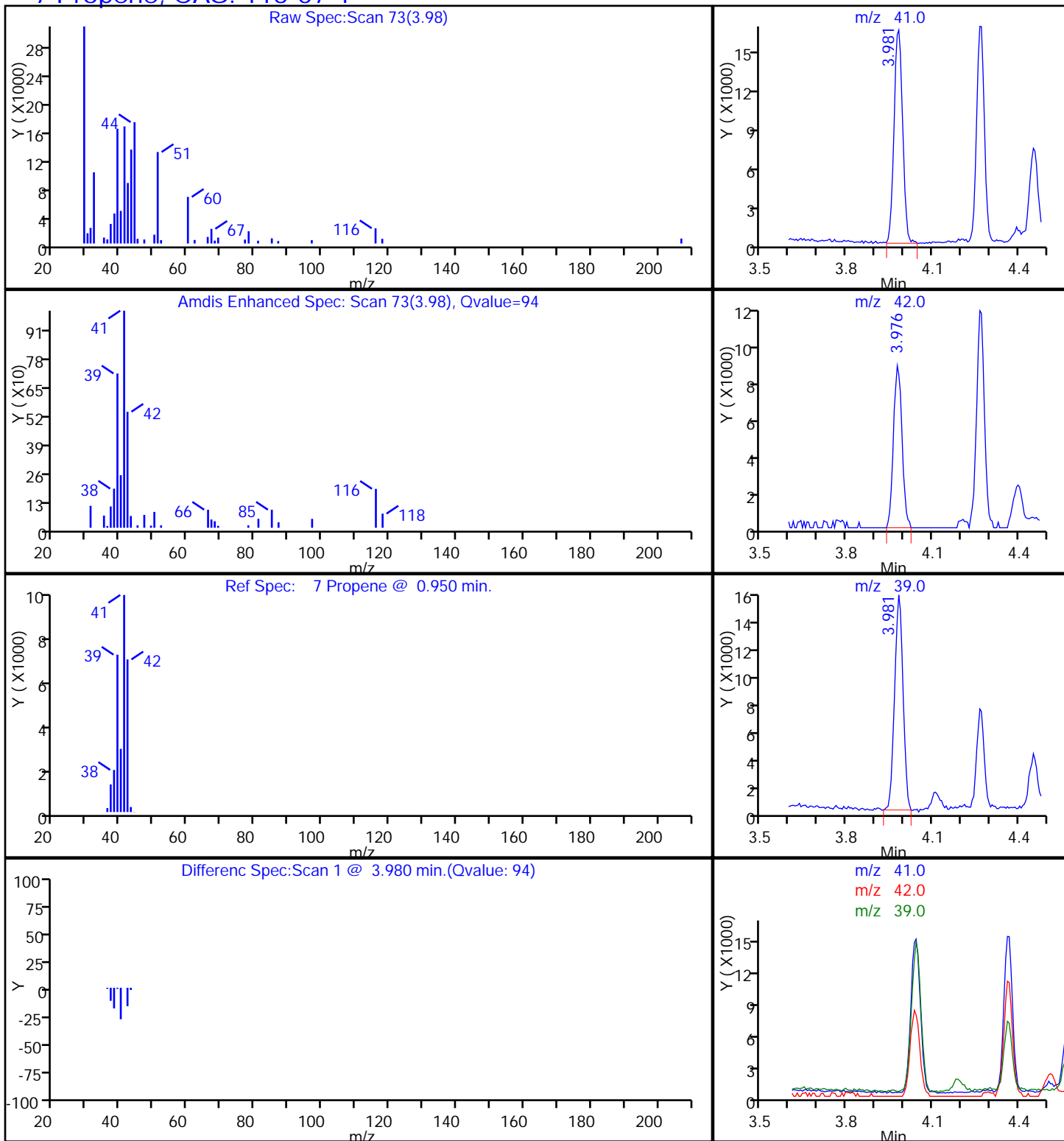
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

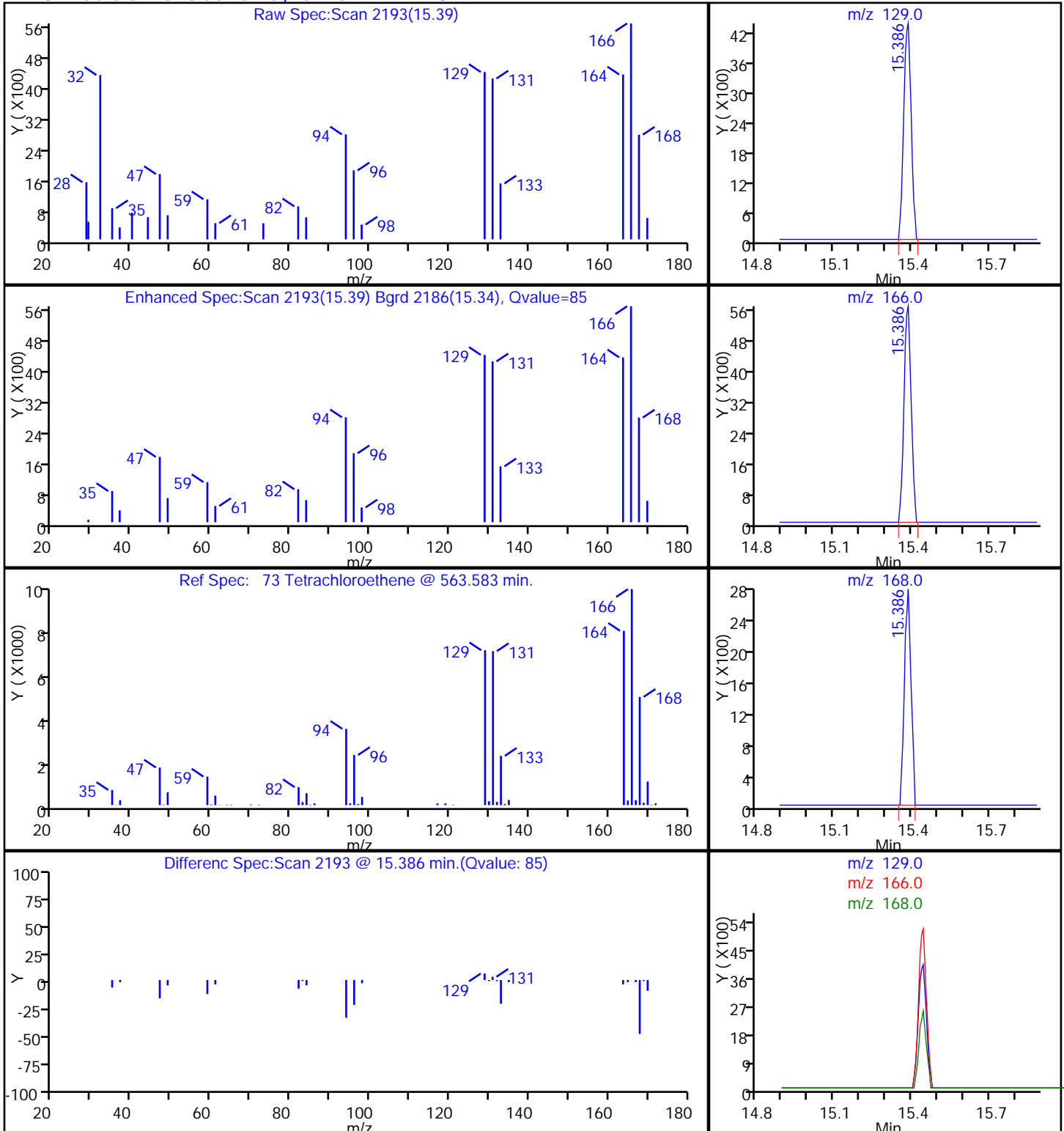
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

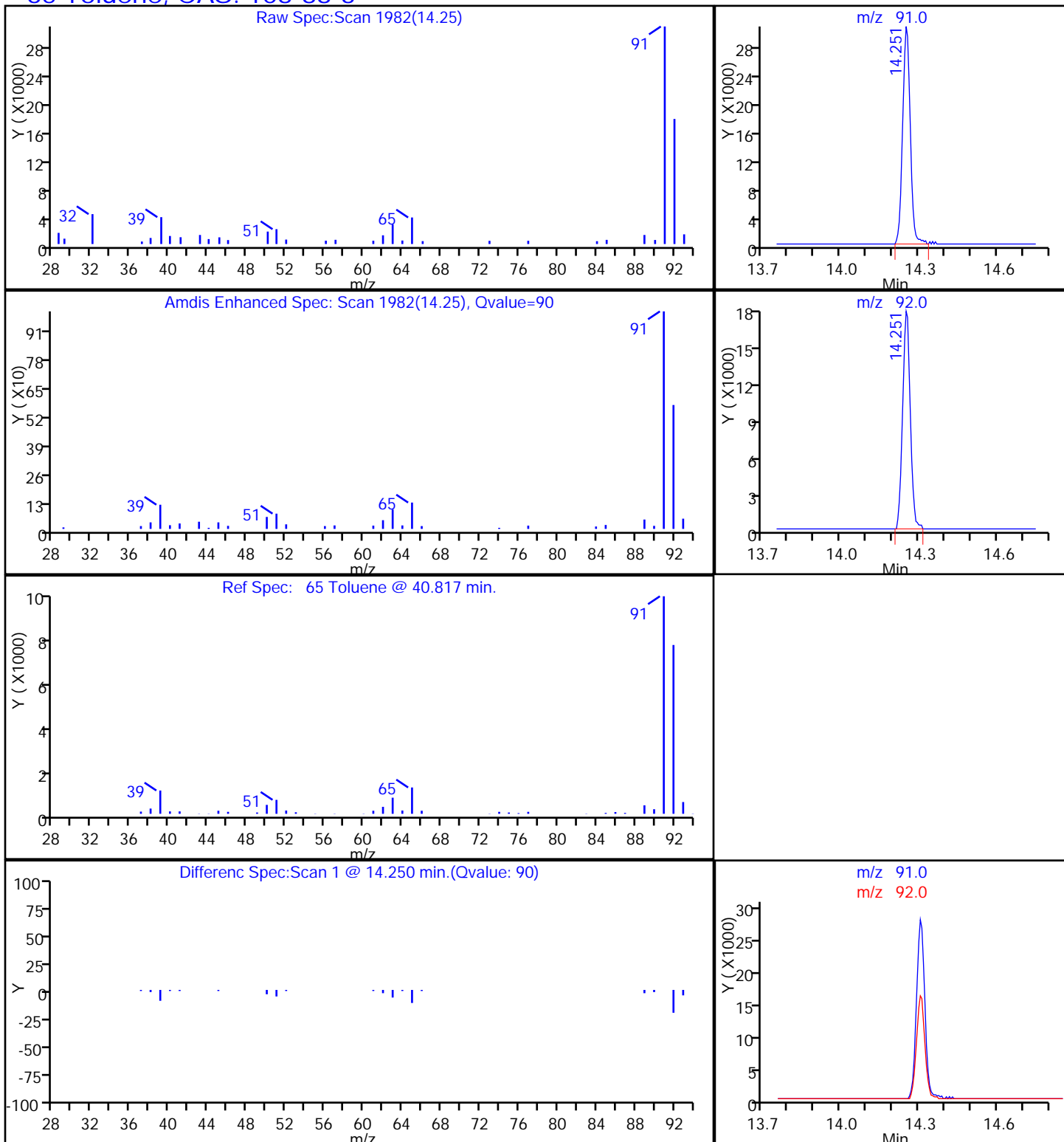
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P207.D

Injection Date: 19-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-4

Lab Sample ID: 140-1063-4

Client ID: IA7-E14

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

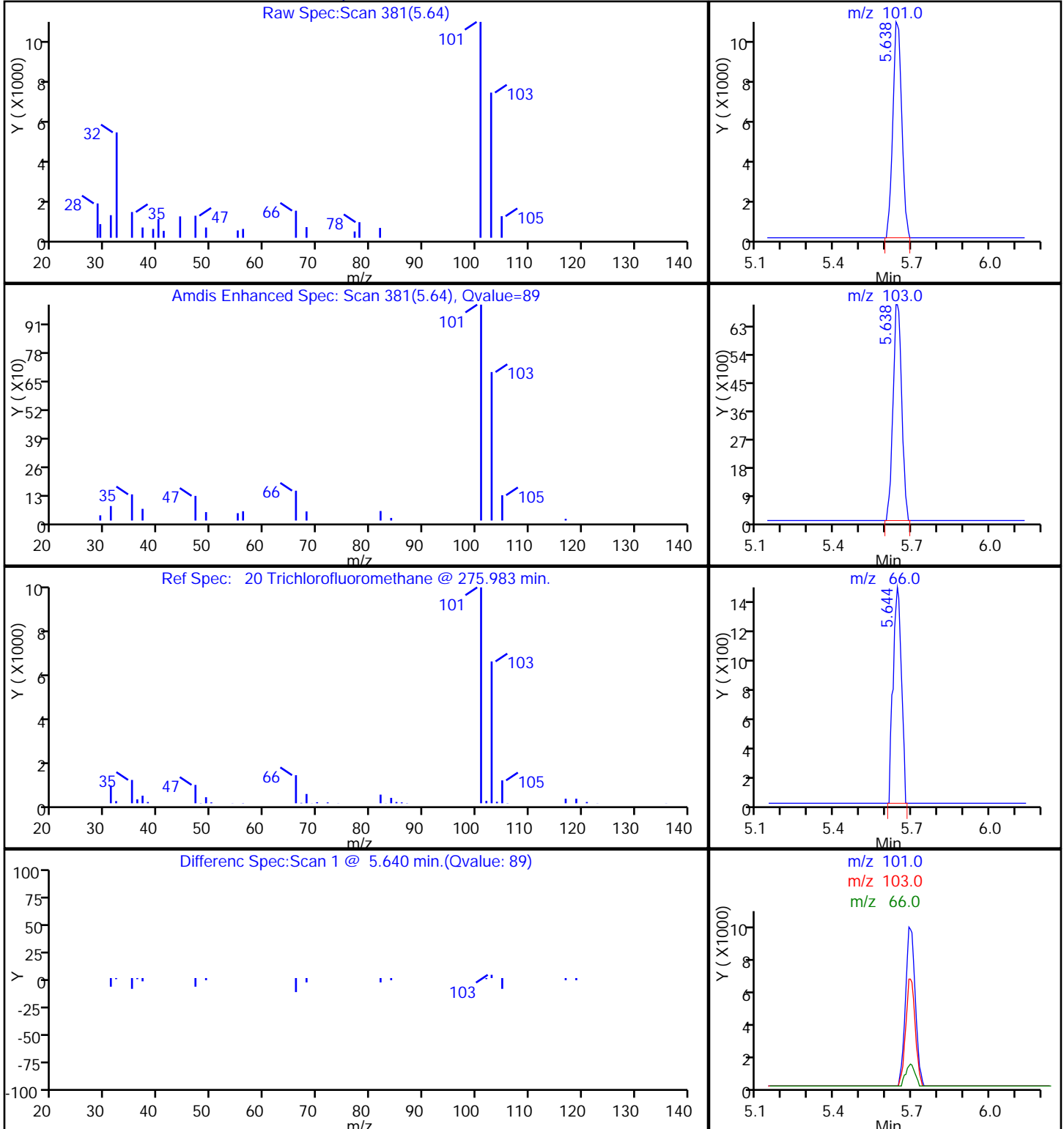
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5
 Matrix: Air Lab File ID: JC18P208.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:48
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.068	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.059	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.1		1.0	0.20
591-78-6	2-Hexanone	100.20	0.13	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	0.29	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.52		0.50	0.045
67-64-1	Acetone	58.08	6.0		5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5
 Matrix: Air Lab File ID: JC18P208.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:48
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	9.2		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.075	J	0.20	0.068
142-82-5	Heptane	100.21	0.055	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.99	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.27	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.22		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.087	J	0.20	0.061
115-07-1	Propene	42.08	0.79	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.33		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.39		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5
 Matrix: Air Lab File ID: JC18P208.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:48
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5
 Matrix: Air Lab File ID: JC18P208.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:48
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.33	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.28	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	3.3		2.9	0.59
591-78-6	2-Hexanone	100.20	0.52	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	0.85	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.1		2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	0.77		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5
 Matrix: Air Lab File ID: JC18P208.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:48
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	17		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.33	J	0.87	0.30
142-82-5	Heptane	100.21	0.22	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.49	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.4	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.95	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.96		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.38	J	0.87	0.26
115-07-1	Propene	42.08	1.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.2		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-2 Lab Sample ID: 140-1063-5
 Matrix: Air Lab File ID: JC18P208.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:48
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D
 Lims ID: 140-1063-A-5 Lab Sample ID: 140-1063-5
 Client ID: AMB-2
 Sample Type: Client
 Inject. Date: 19-Mar-2014 02:25:30 ALS Bottle#: 8 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-5
 Misc. Info.: J031814,TO15,,140-0000527-014
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 12:59:23 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 12:59:23

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	356136	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1701568	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1362505	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	870106	3.61	
7 Propene	41	3.975	3.971	0.004	96	34568	0.3165	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	100	61359	0.1739	
9 Chloromethane	52	4.228	4.229	-0.001	98	8272	0.2064	
17 Ethanol	31	5.116	5.116	0.0	94	104848	3.67	
19 2-Methylbutane	43	5.412	5.407	0.005	88	17432	0.1152	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	89	24549	0.0792	
23 Acetone	58	5.767	5.767	0.0	92	122182	2.41	
24 Isopropyl alcohol	45	5.858	5.848	0.010	74	53172	0.3978	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.580	-0.006	64	5771	0.0269	
31 Methylene Chloride	84	6.751	6.757	-0.006	87	10409	0.1093	
39 2-Butanone (MEK)	72	8.596	8.586	0.010	99	15281	0.4533	
40 Hexane	56	8.639	8.635	0.004	77	5378	0.0562	
48 Benzene	78	11.022	11.023	-0.001	89	28083	0.0962	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	86	6889	0.0286	
53 Isooctane	57	11.765	11.760	0.005	51	11790	0.0237	
54 n-Heptane	71	12.120	12.120	0.0	56	2261	0.0219	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	94	37327	0.2093	
65 Toluene	91	14.250	14.256	-0.006	91	39484	0.1562	
69 2-Hexanone	58	14.691	14.681	0.010	72	4226	0.0510	
73 Tetrachloroethene	129	15.380	15.386	-0.006	84	15399	0.1308	
76 Ethylbenzene	91	16.526	16.532	-0.006	43	8390	0.0301	
78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	91	19853	0.0881	
82 o-Xylene	91	17.214	17.215	-0.001	67	7965	0.0349	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	44	7165	0.0271	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Worklist Smp#: 14

Client ID: AMB-2

Purge Vol: 500.000 mL

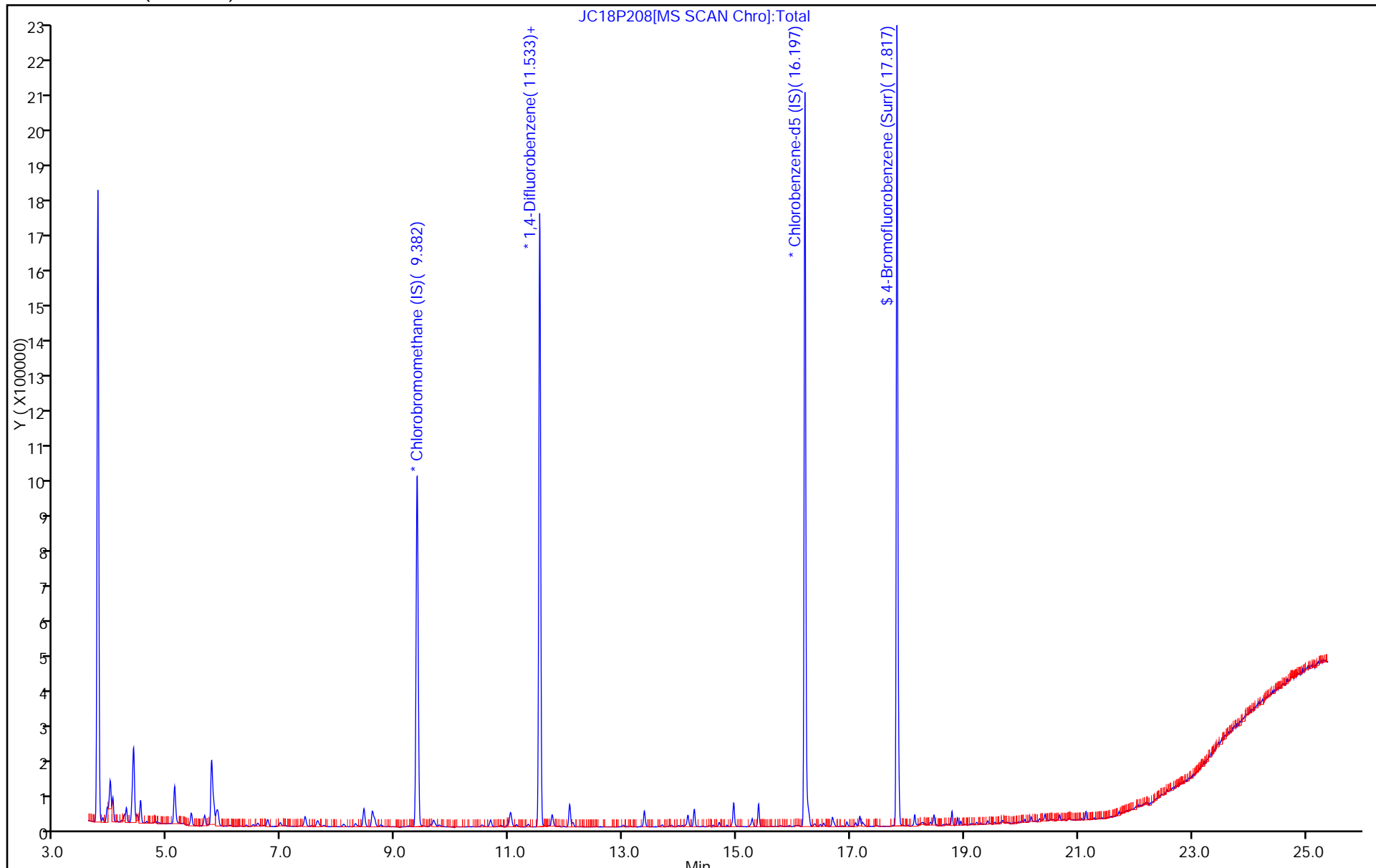
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

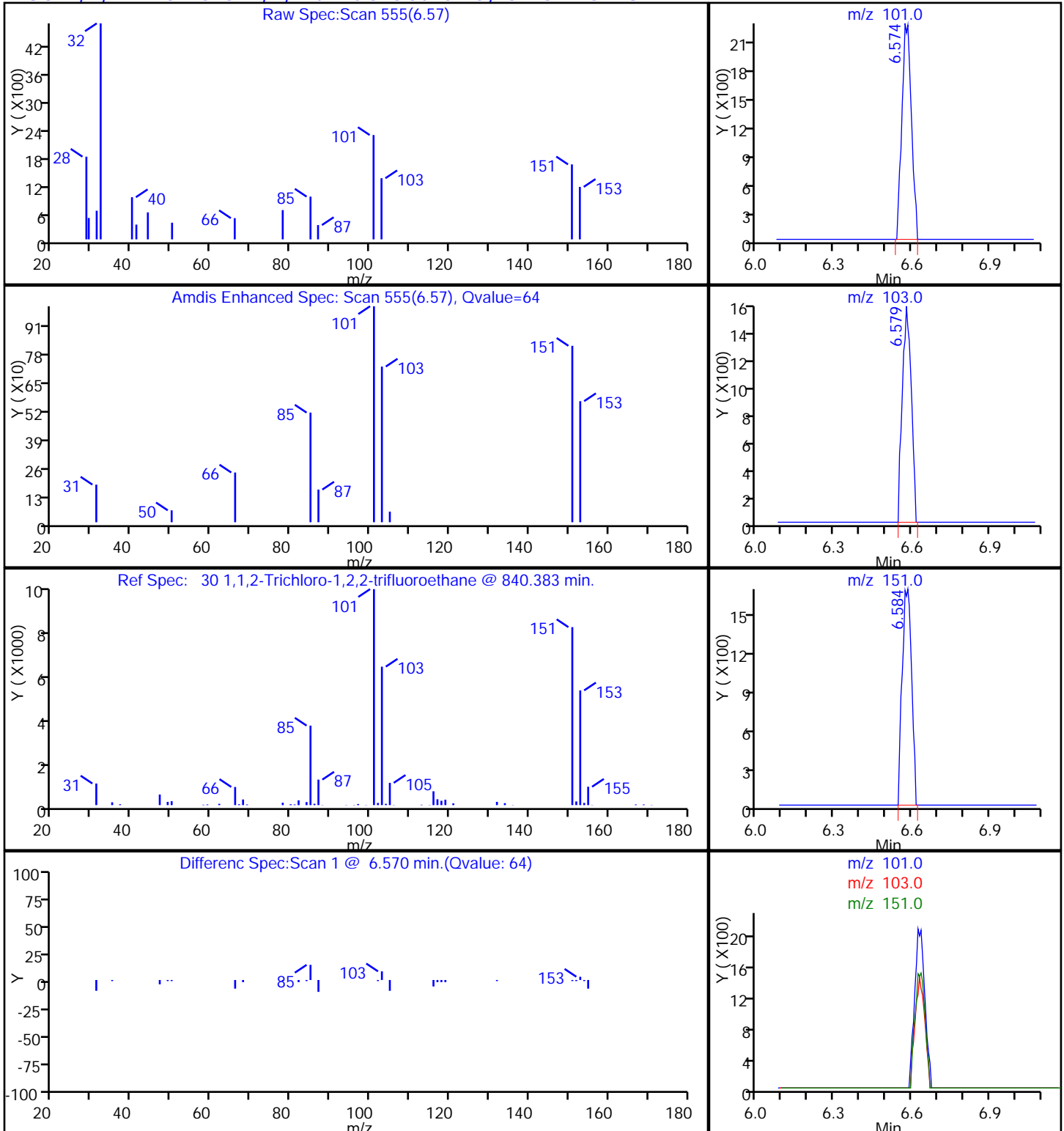
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

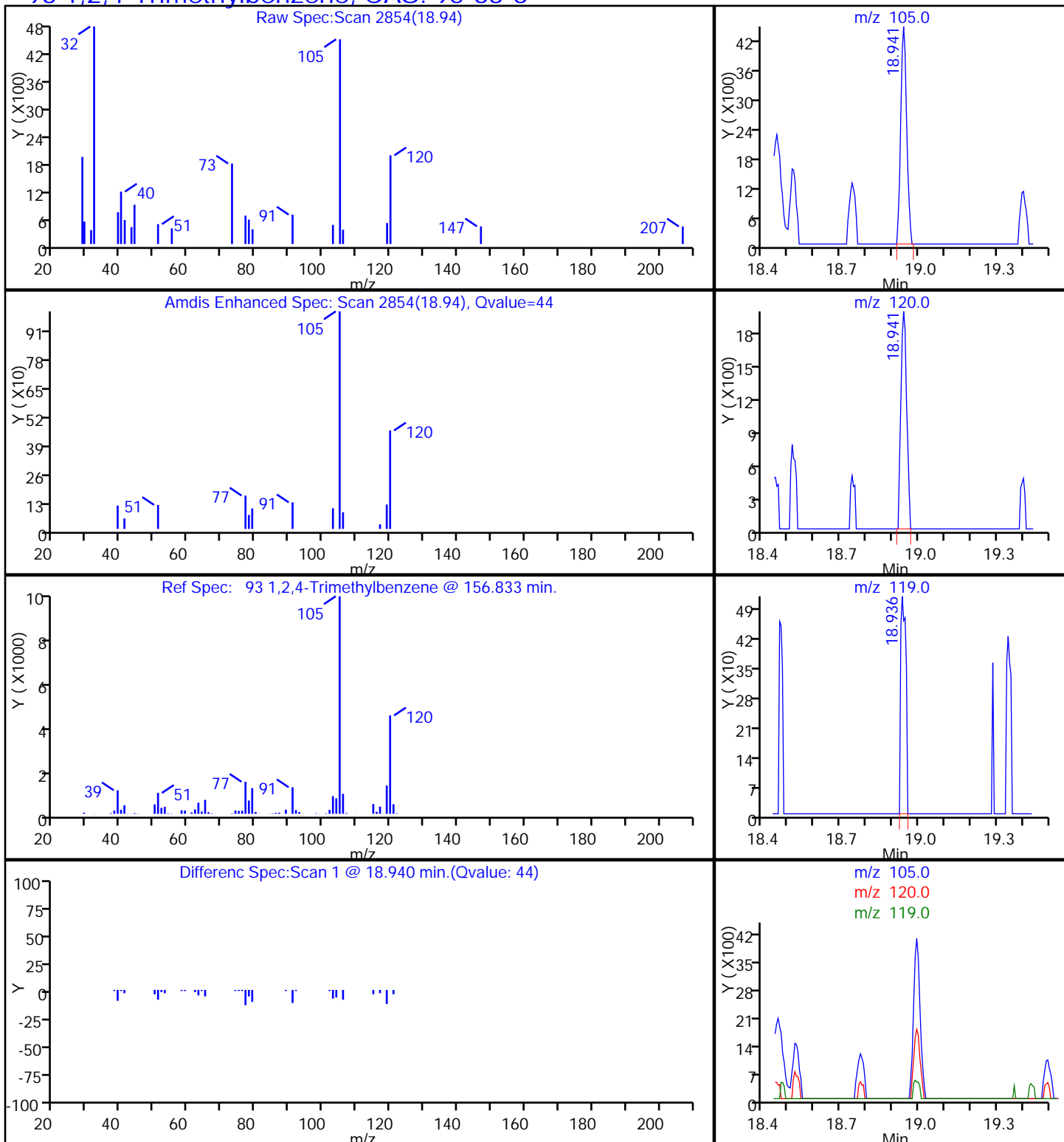
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

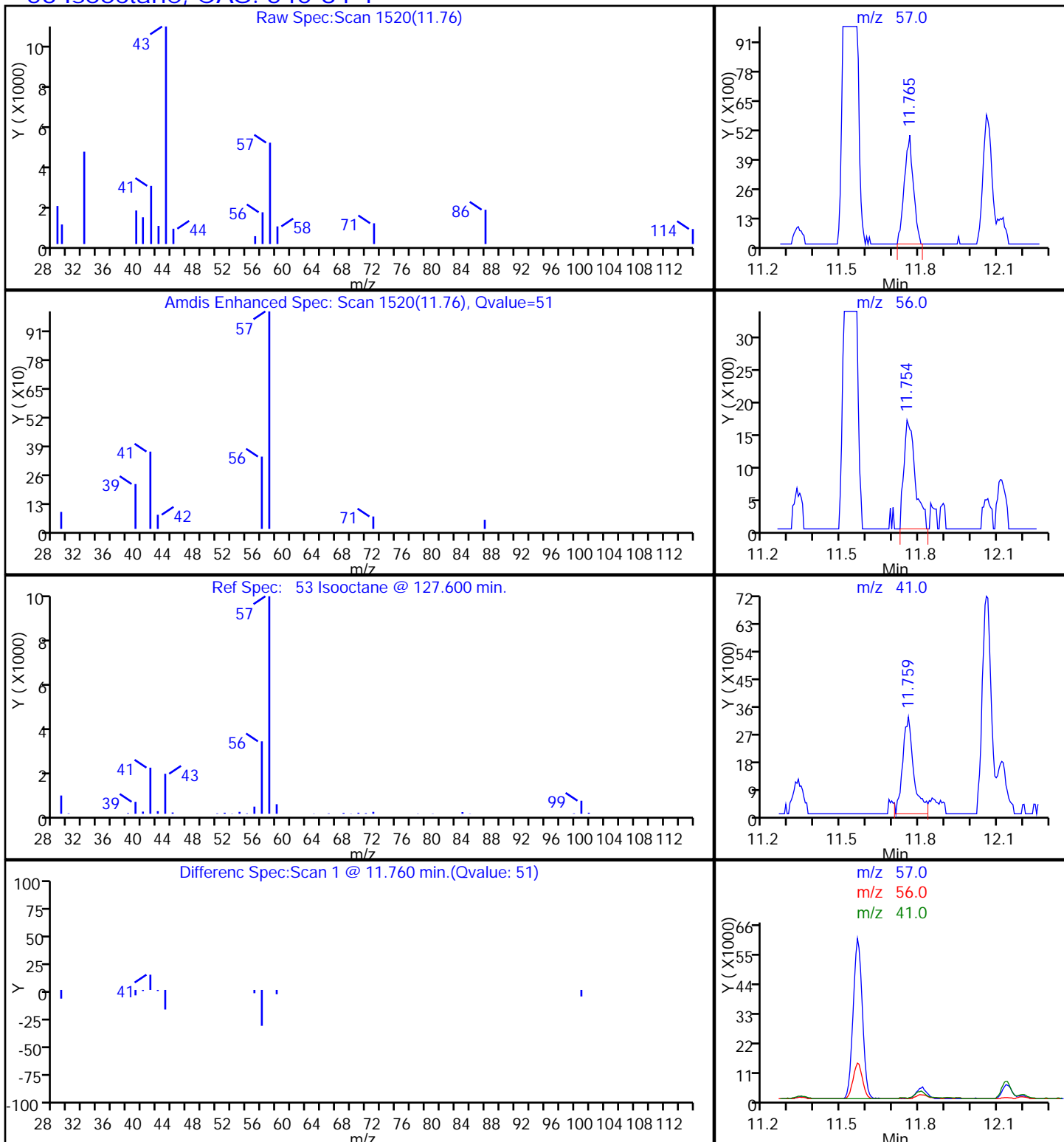
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

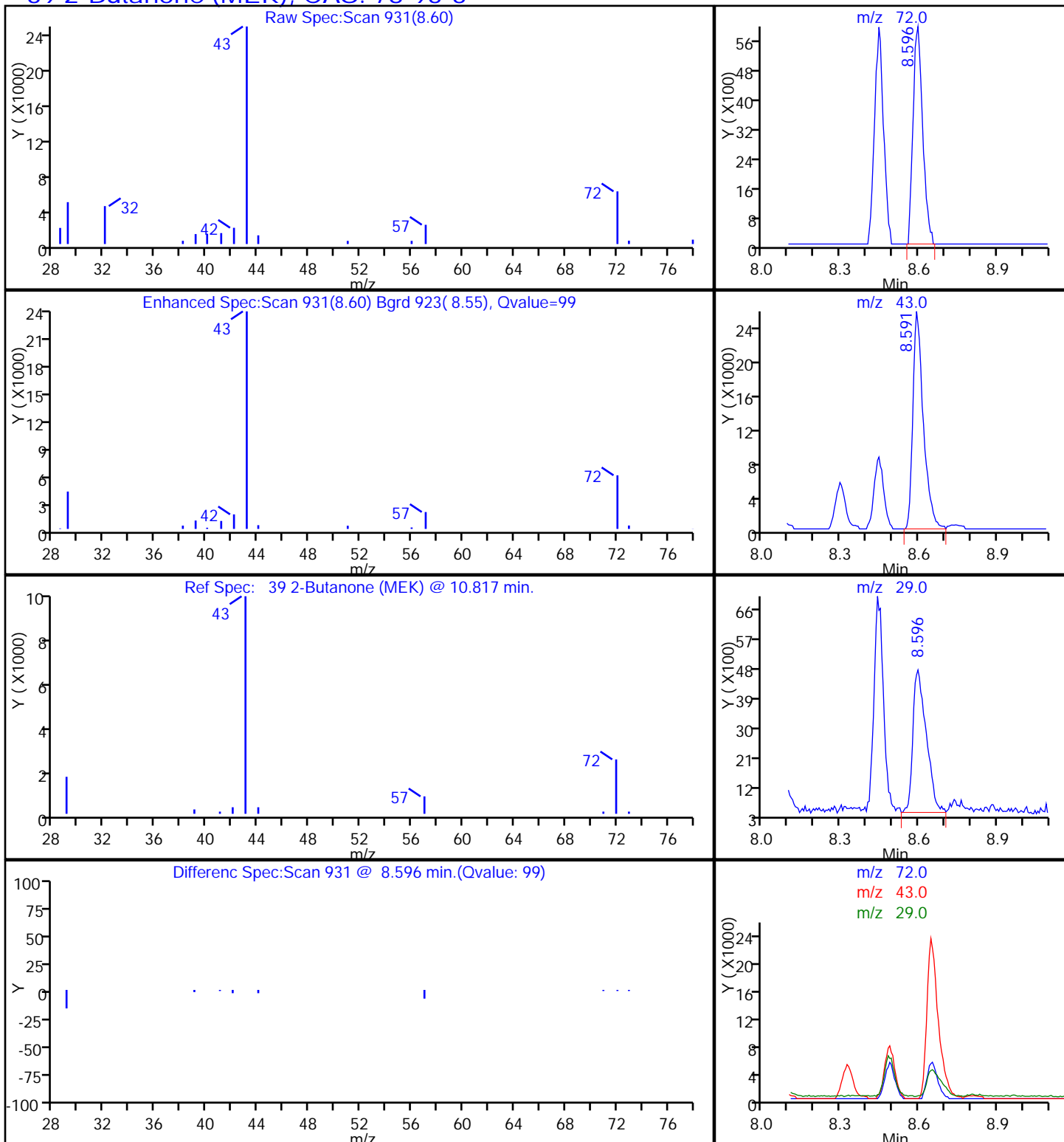
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

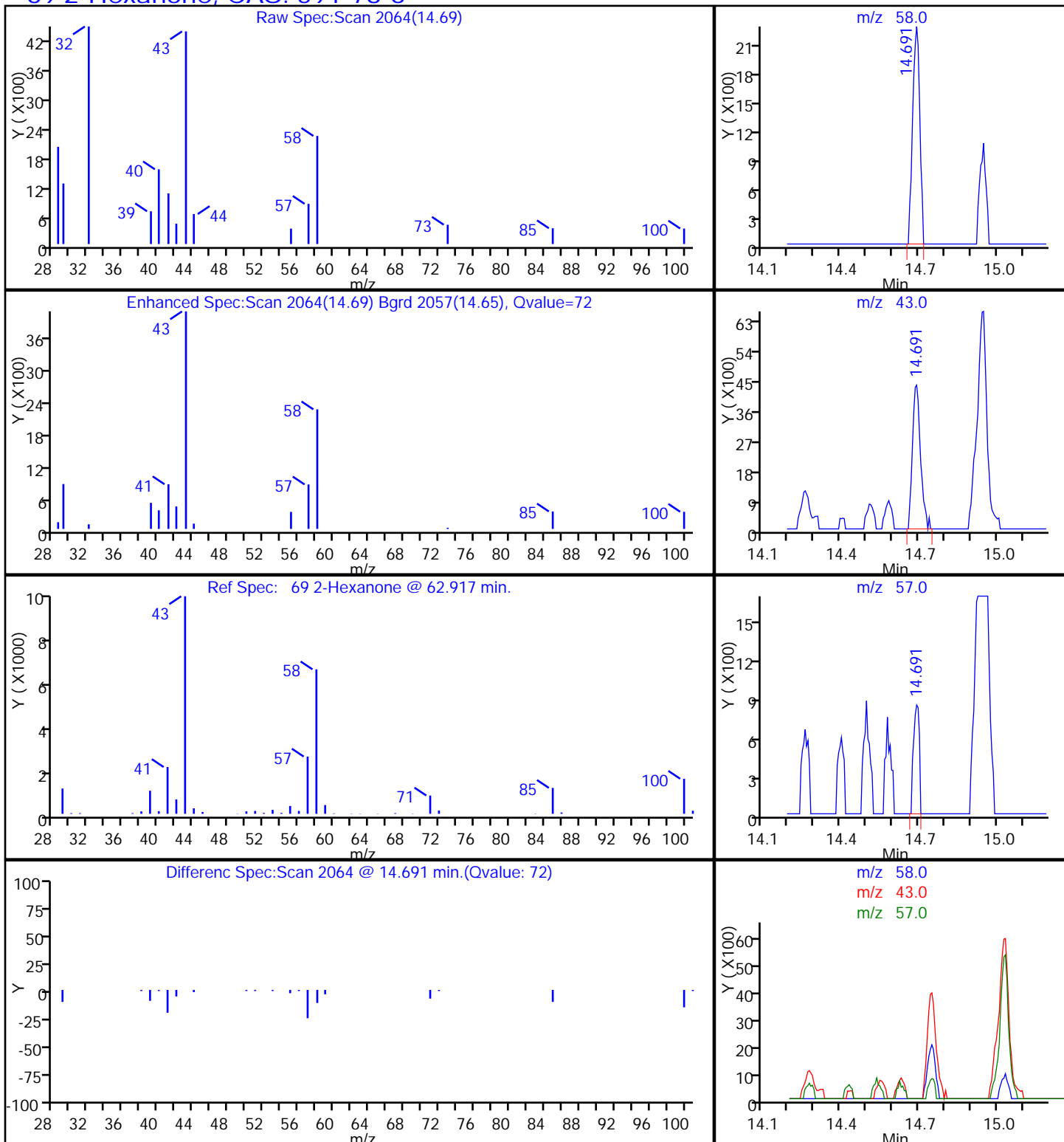
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

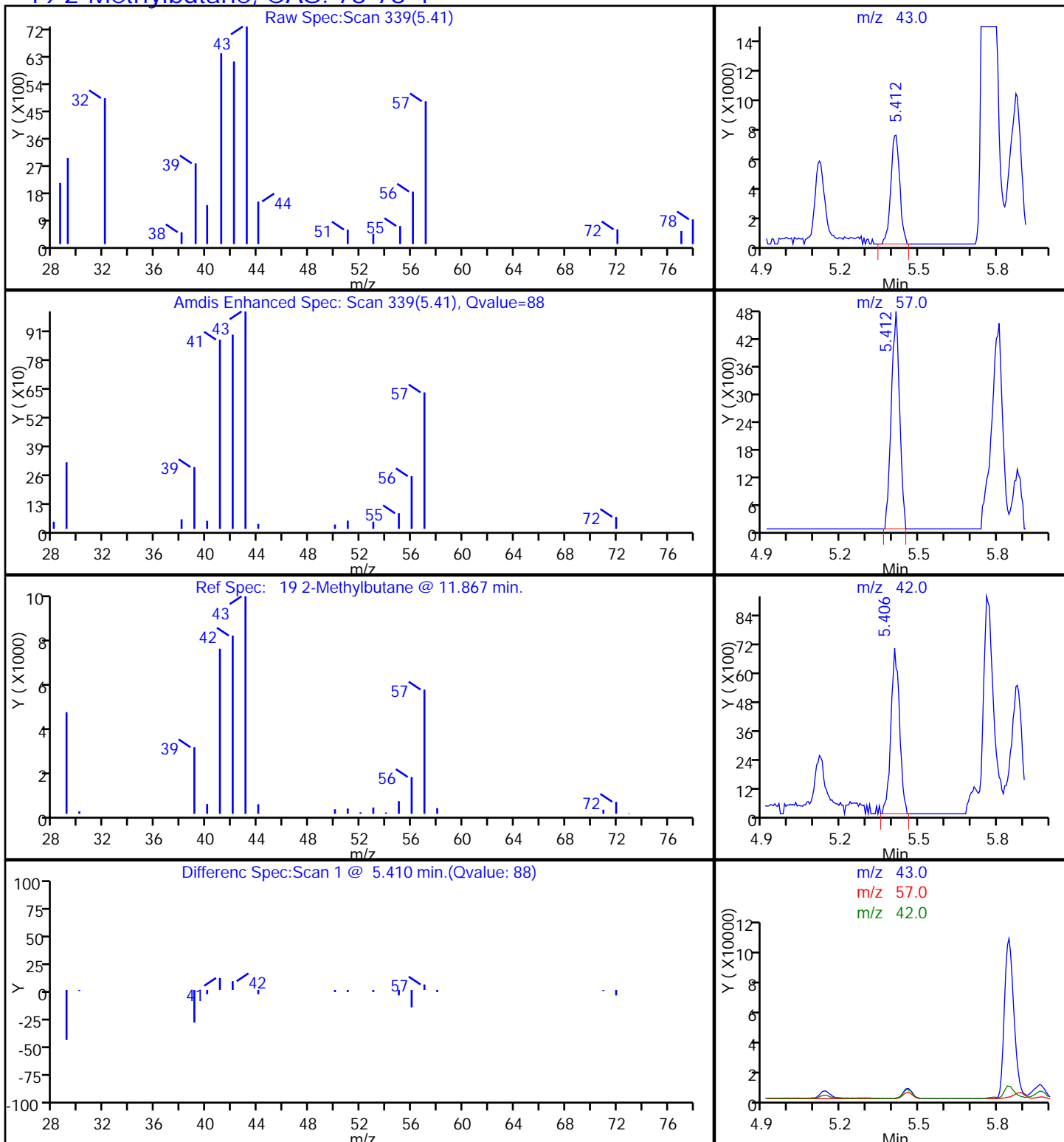
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

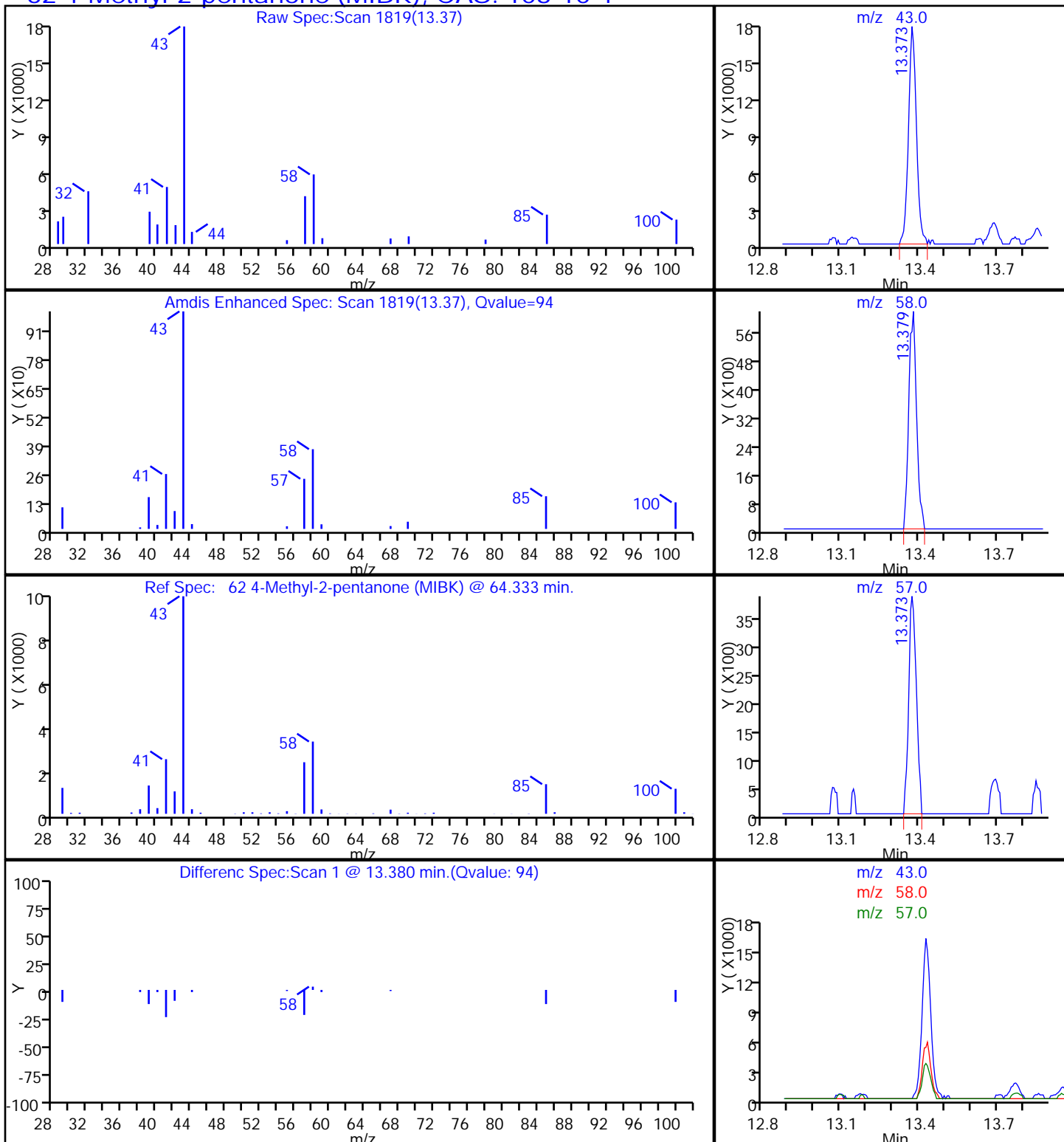
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

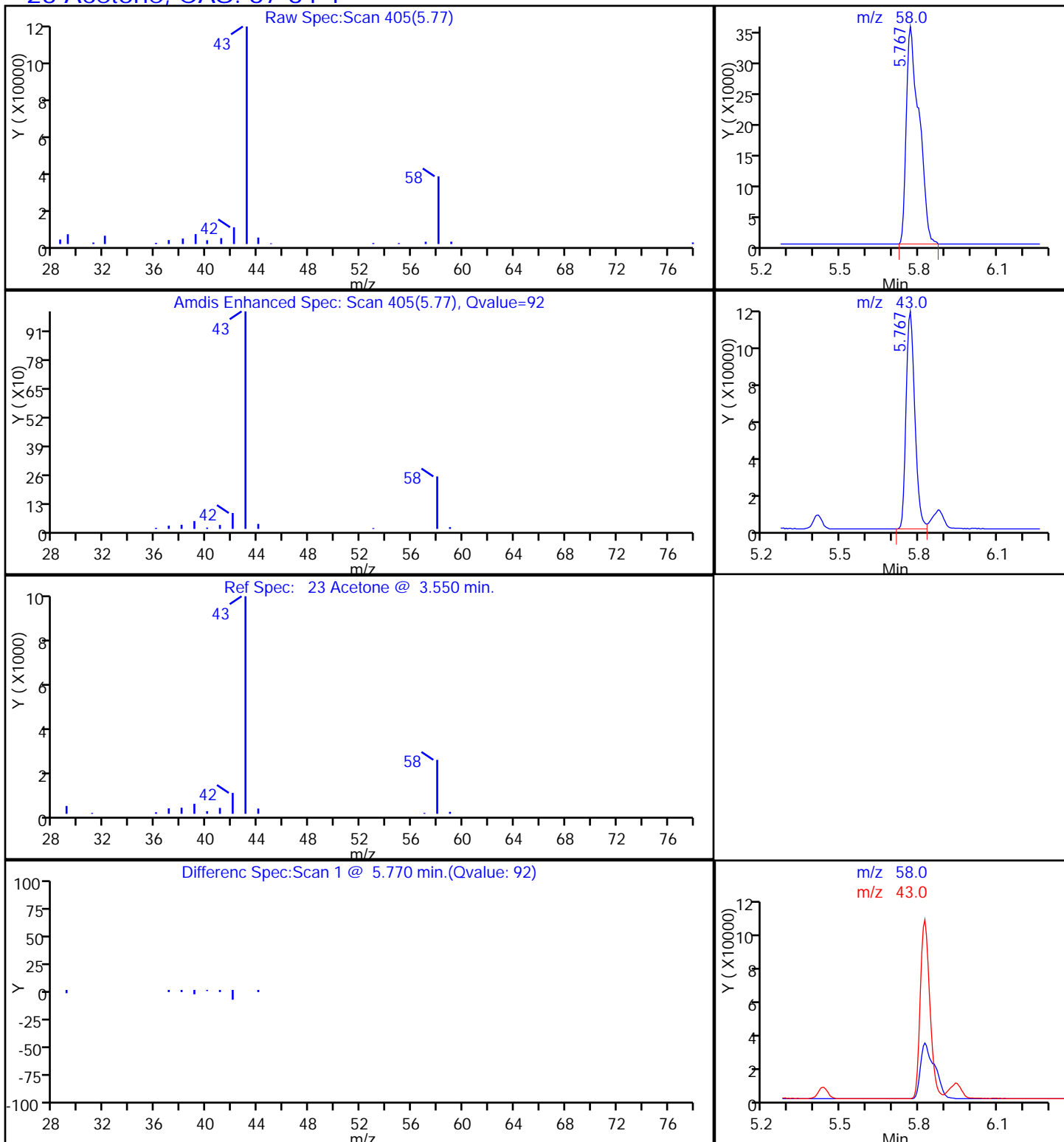
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

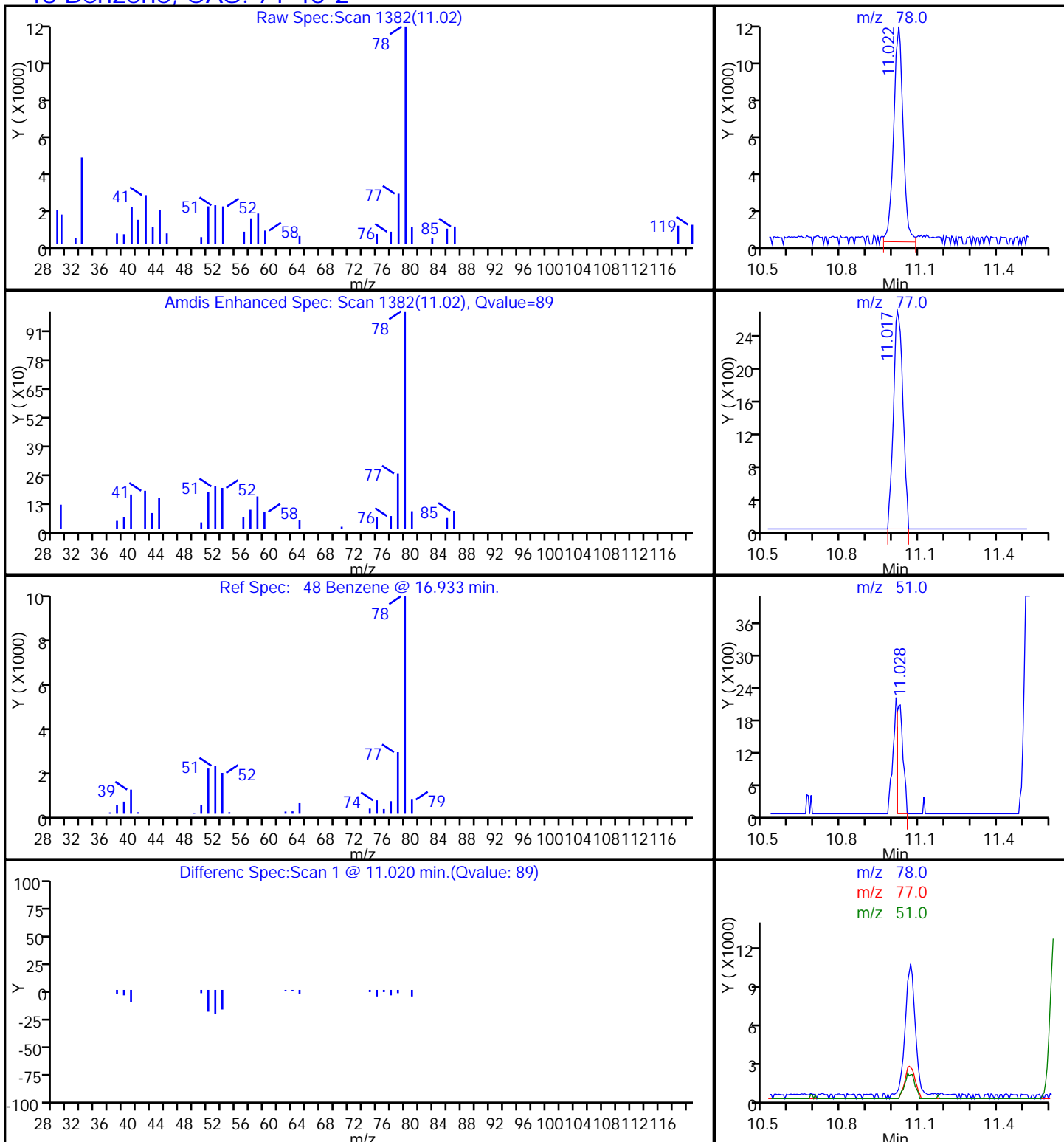
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

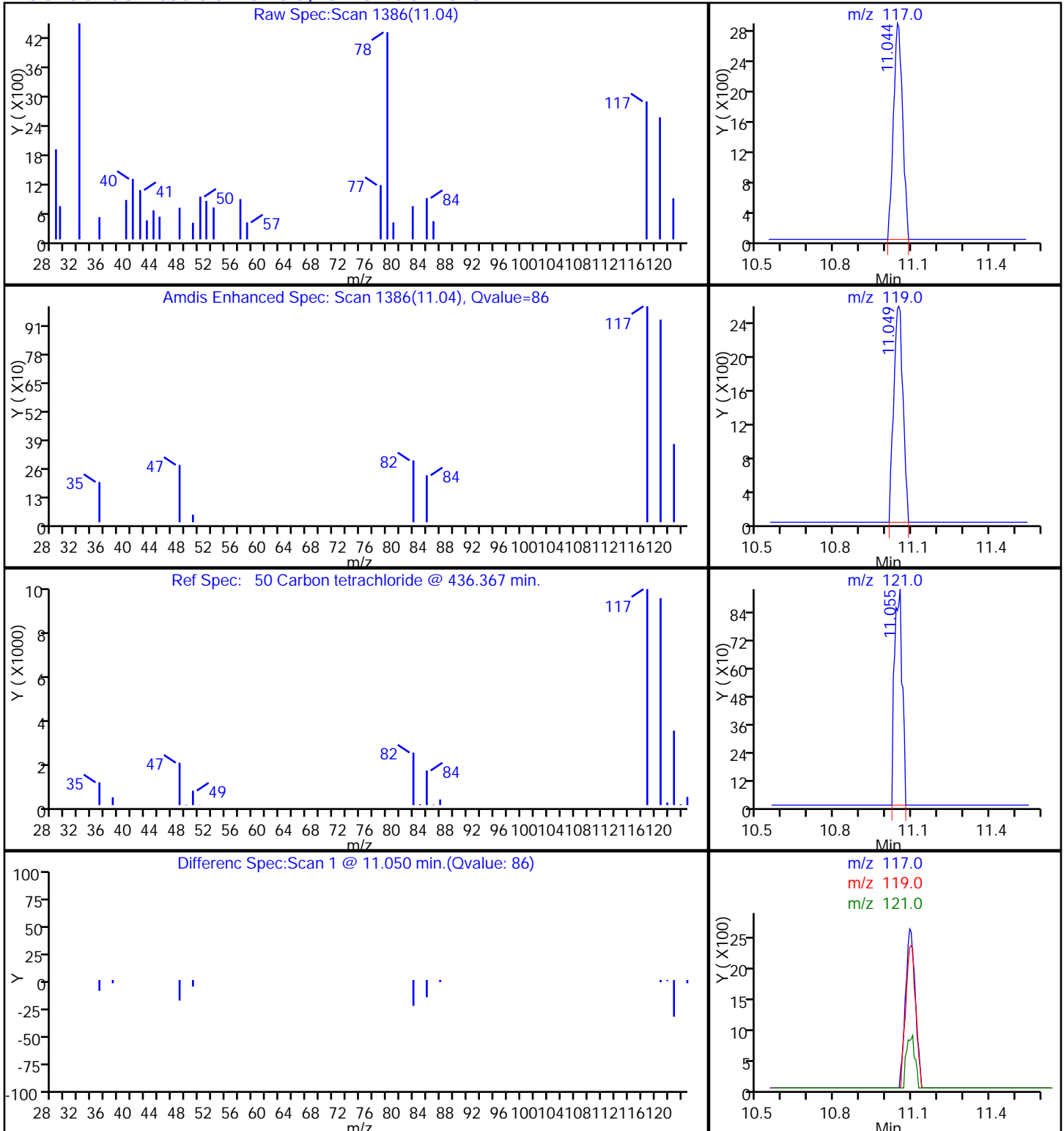
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

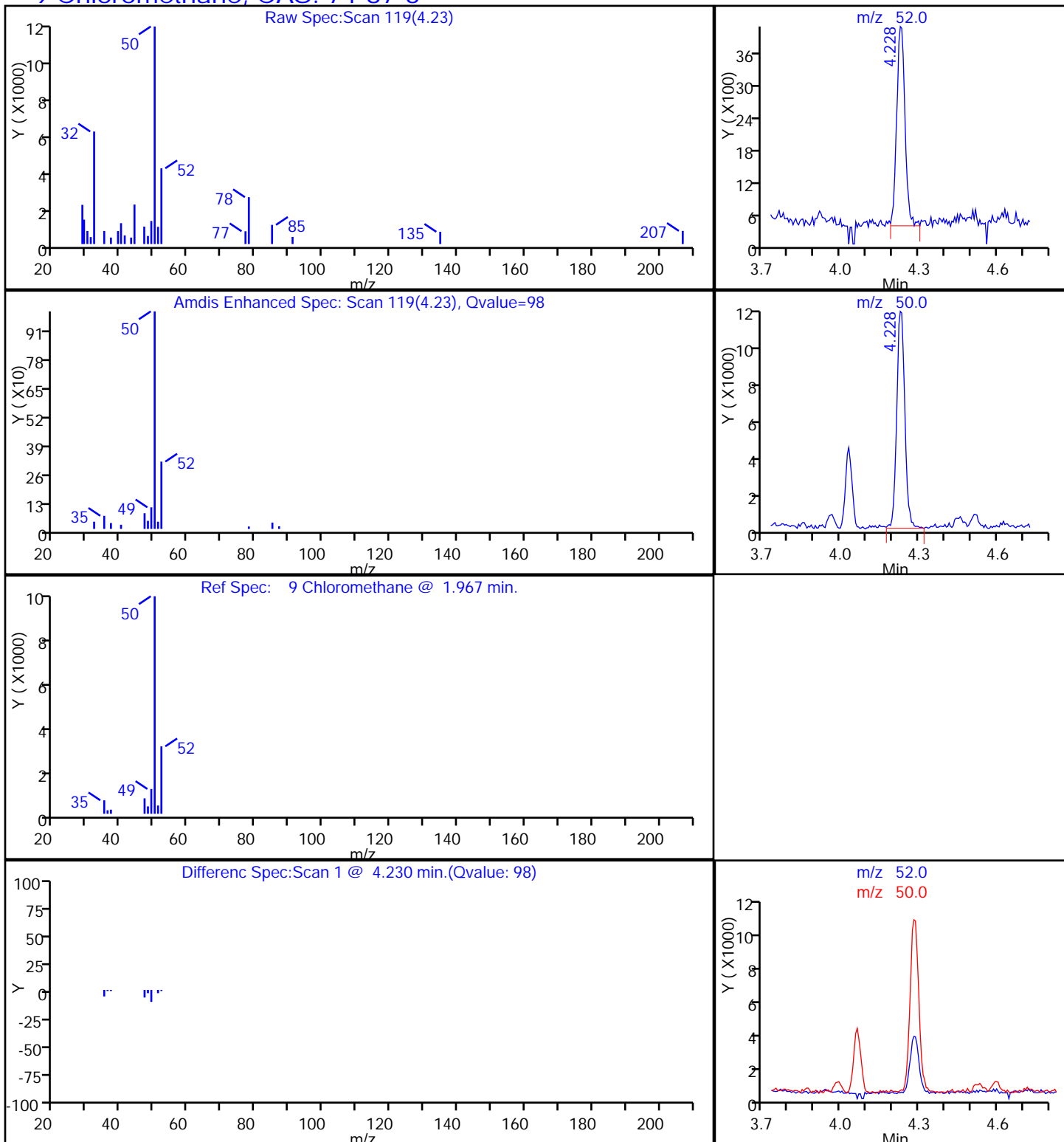
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

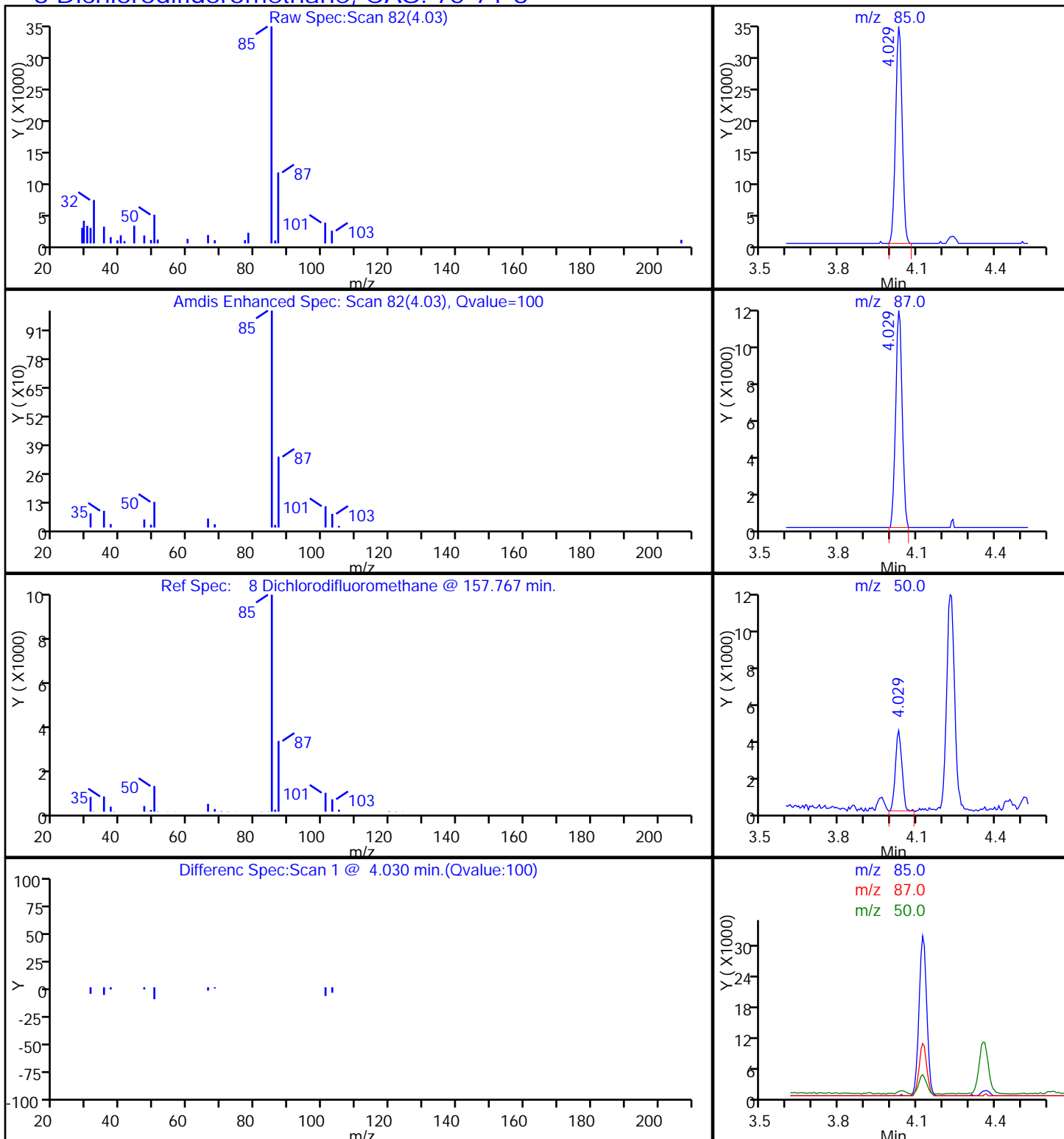
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

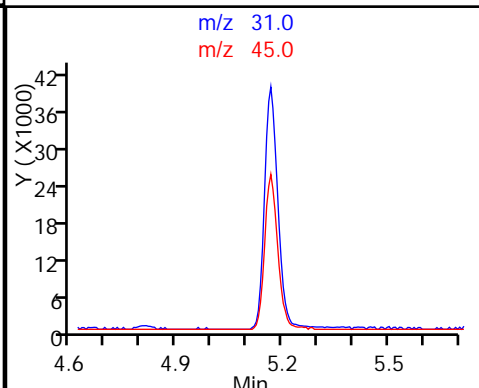
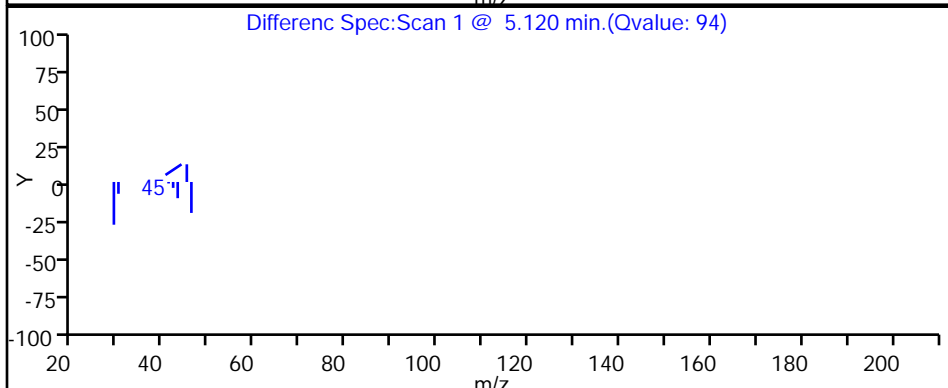
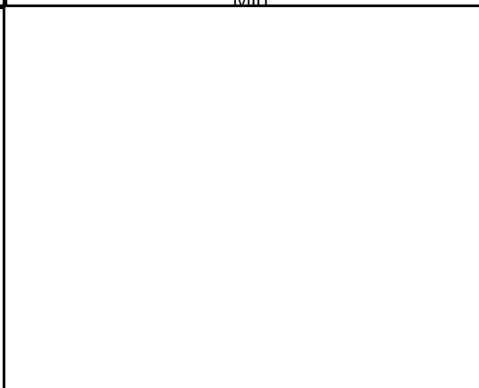
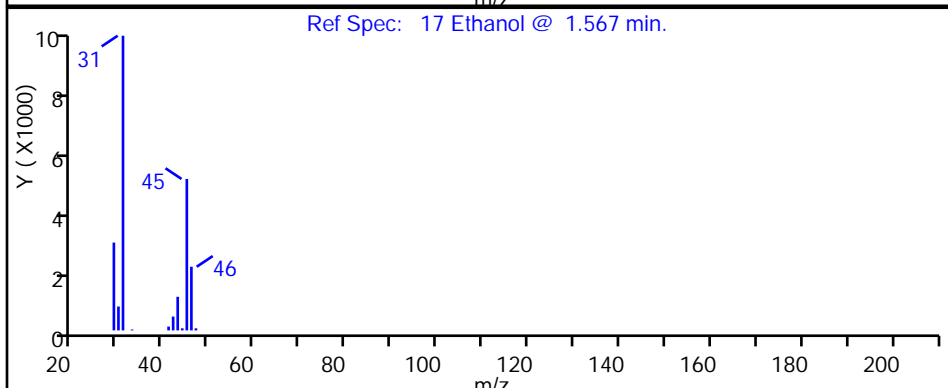
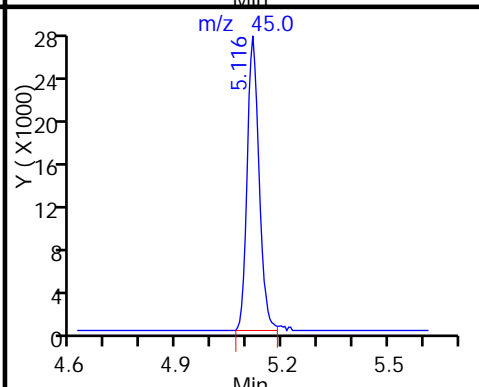
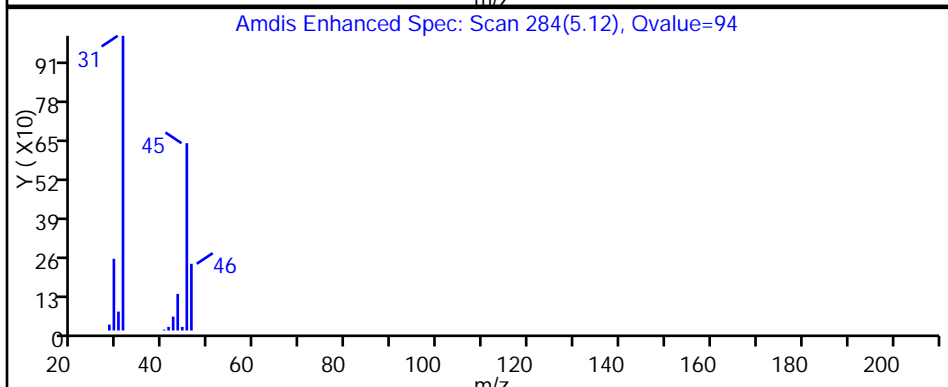
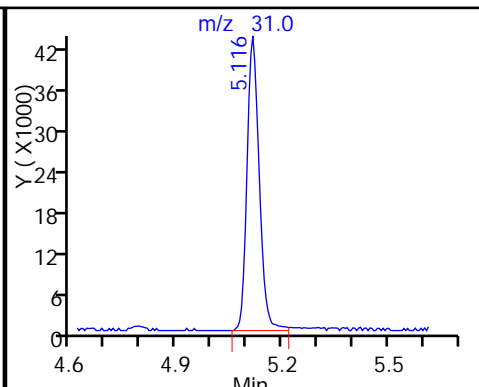
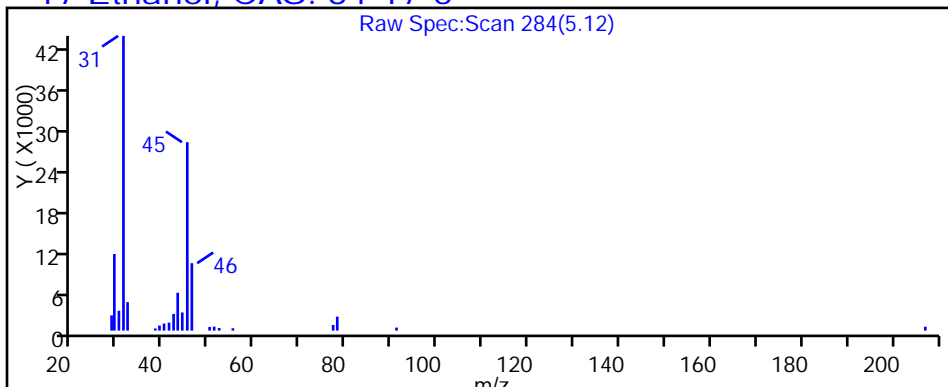
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

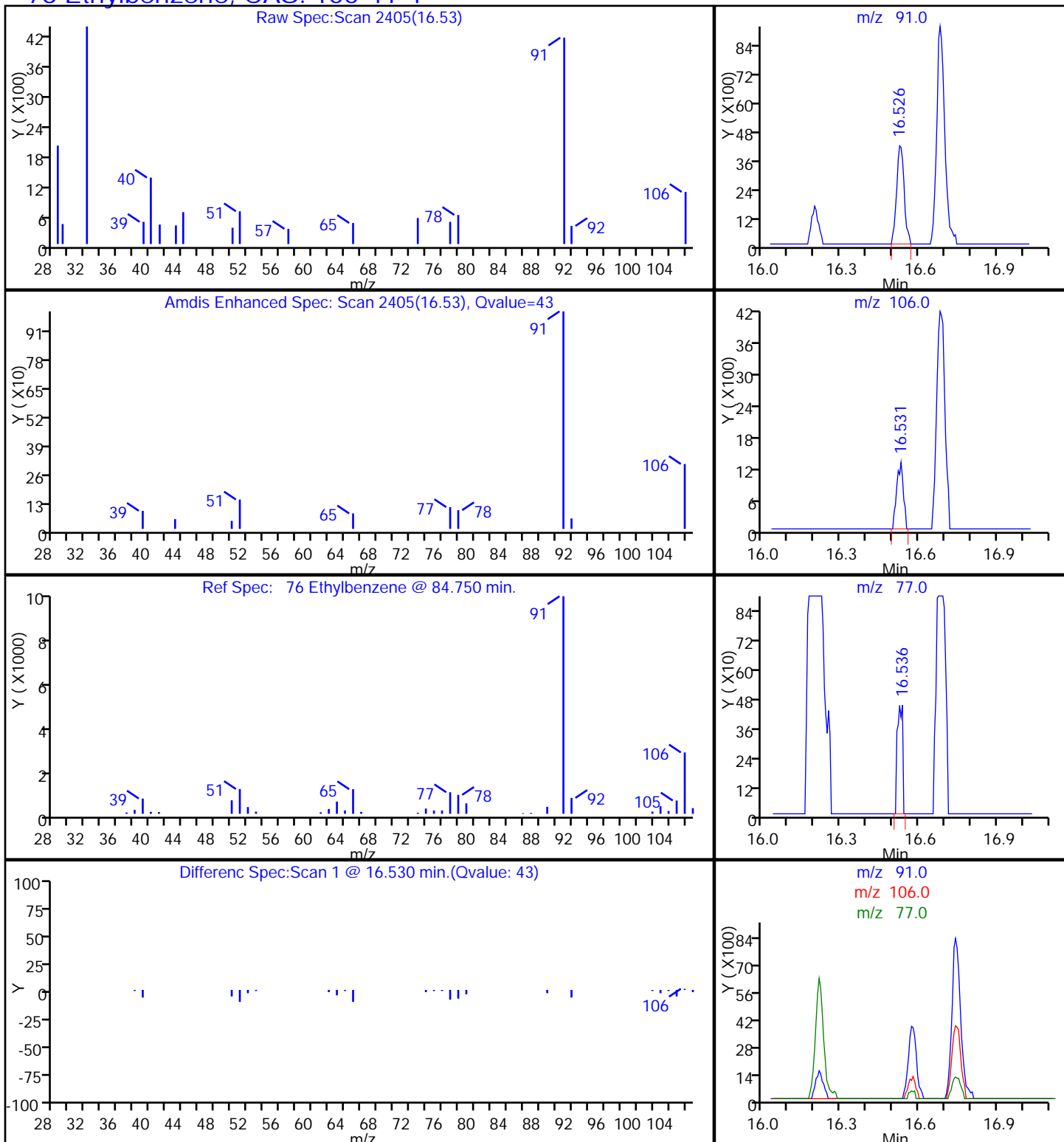
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

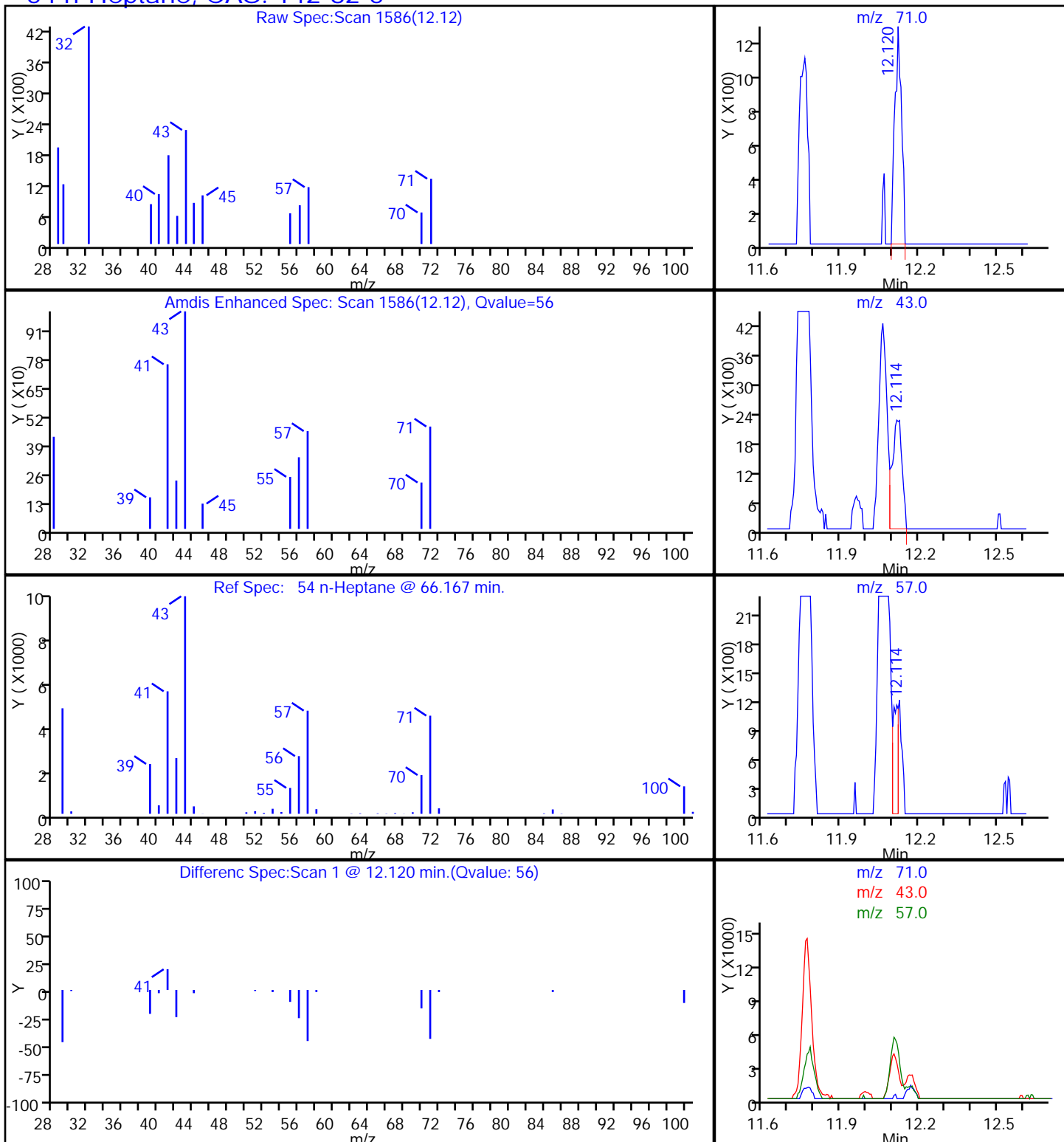
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

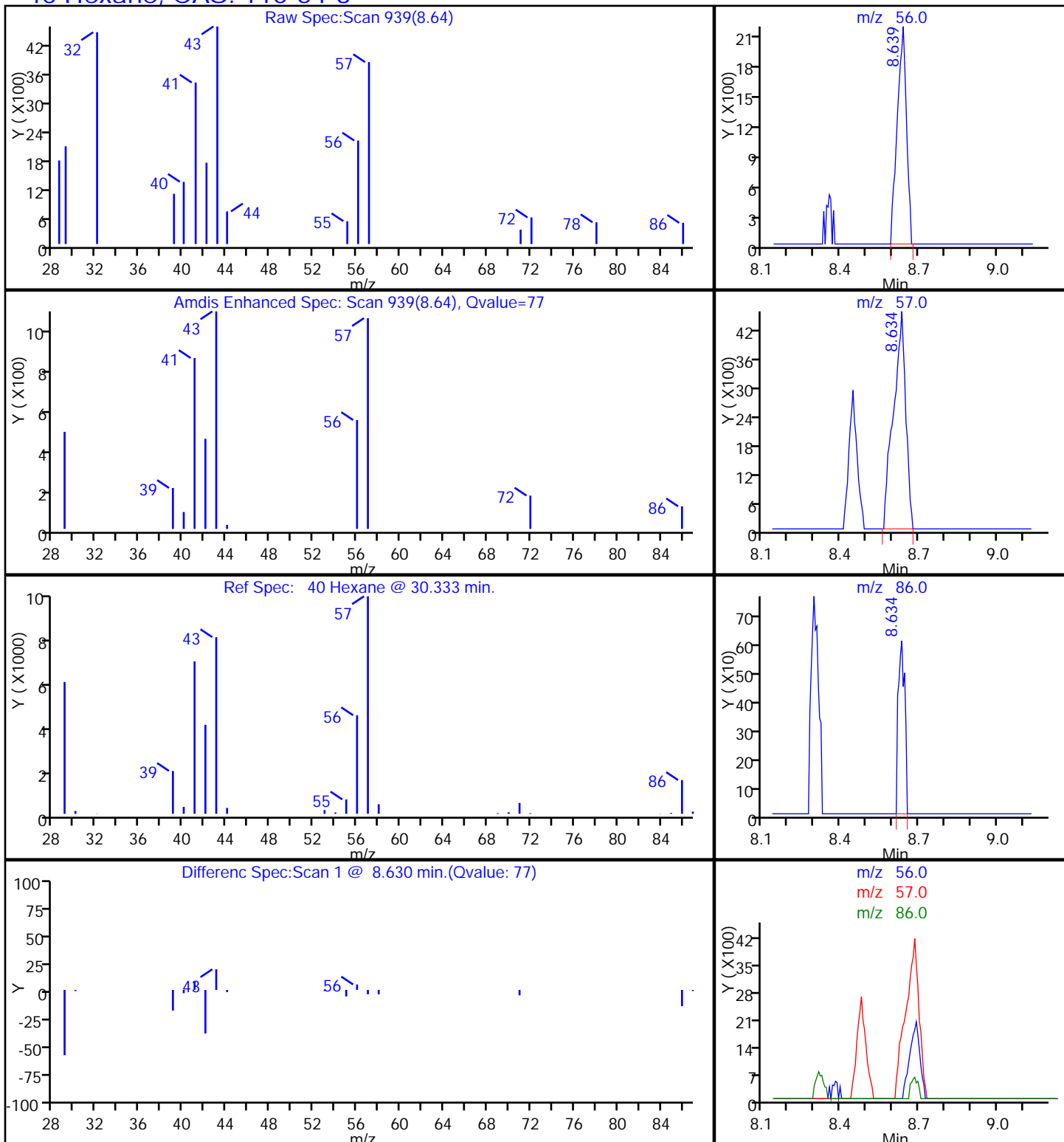
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

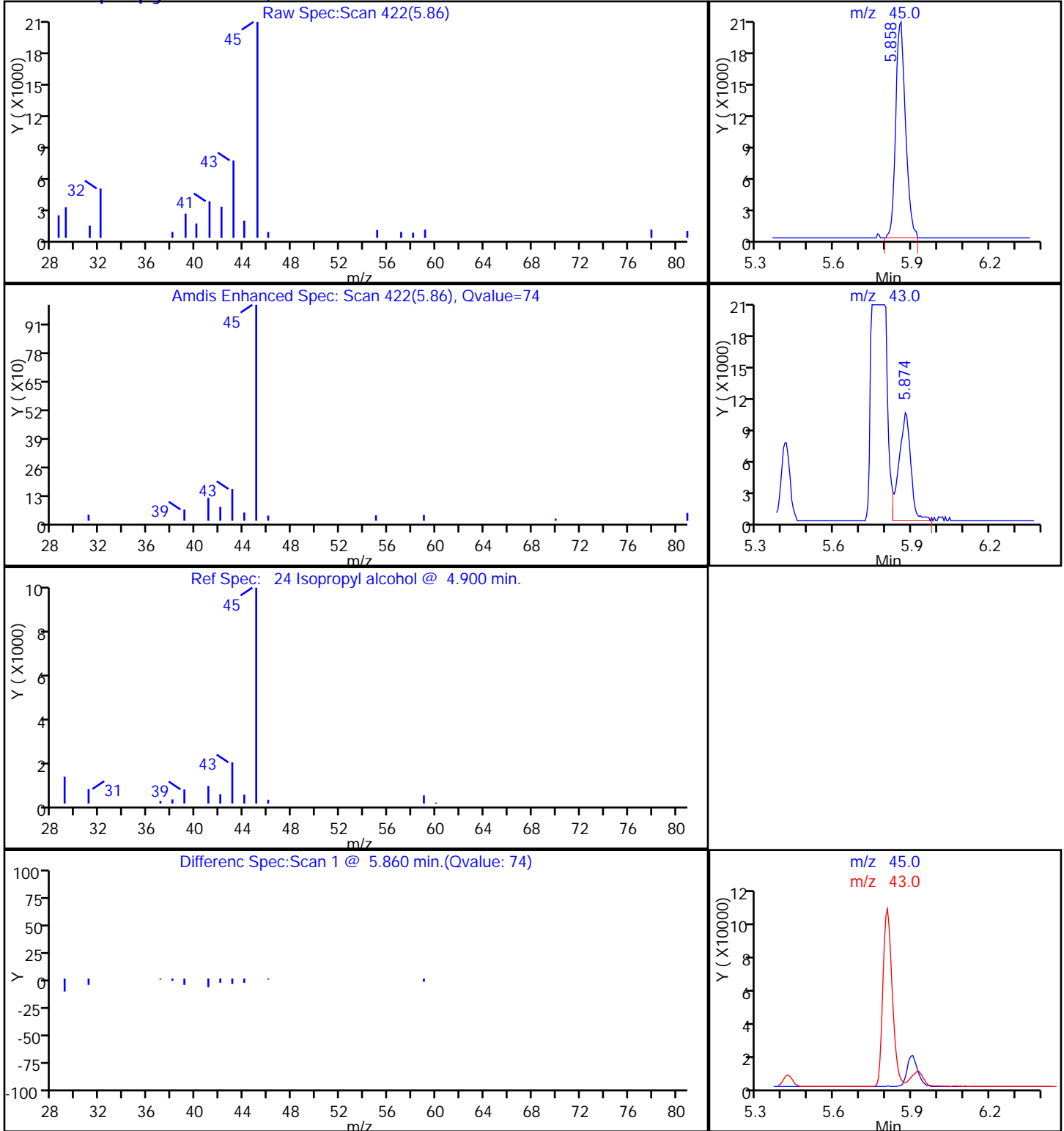
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

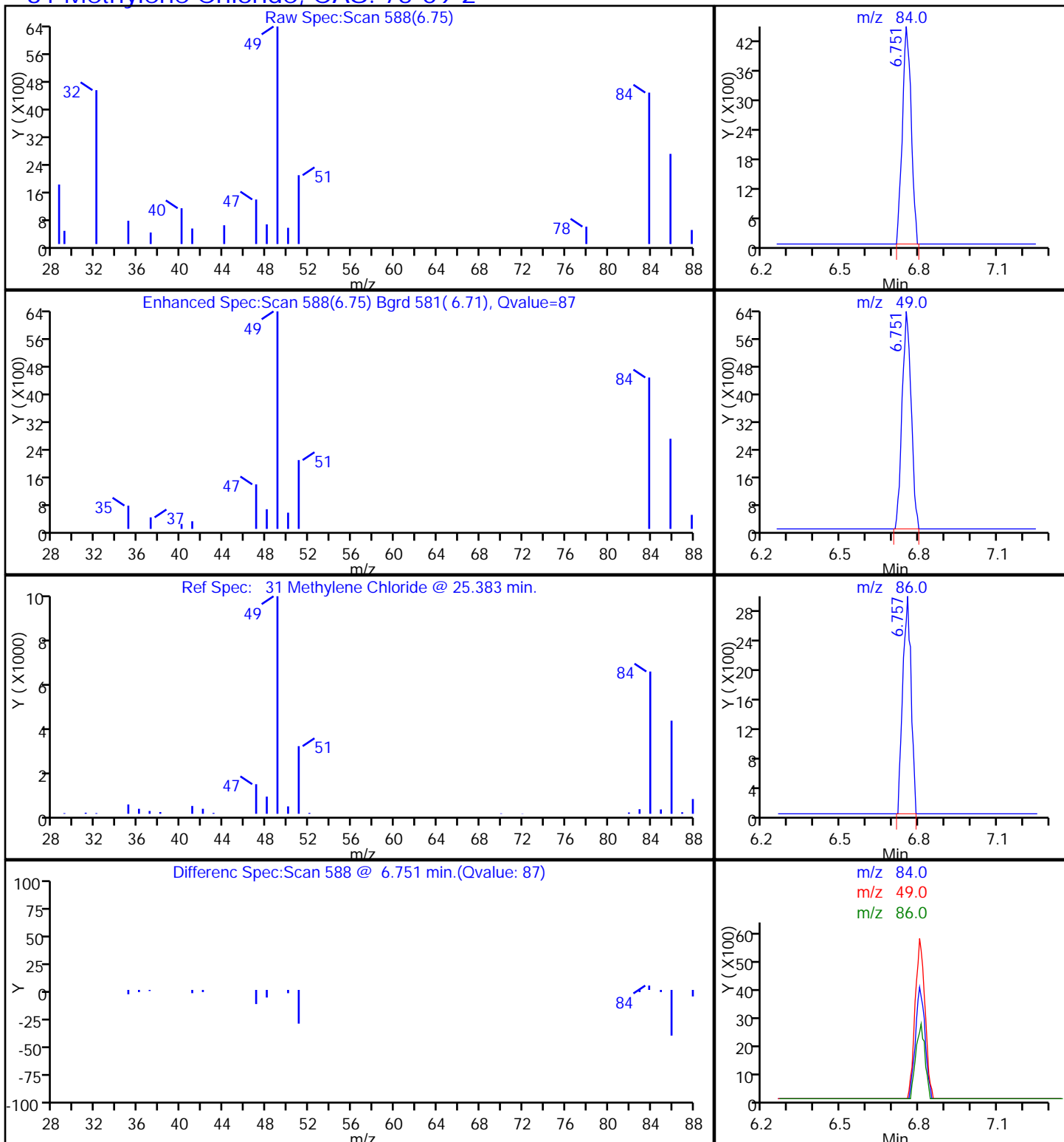
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

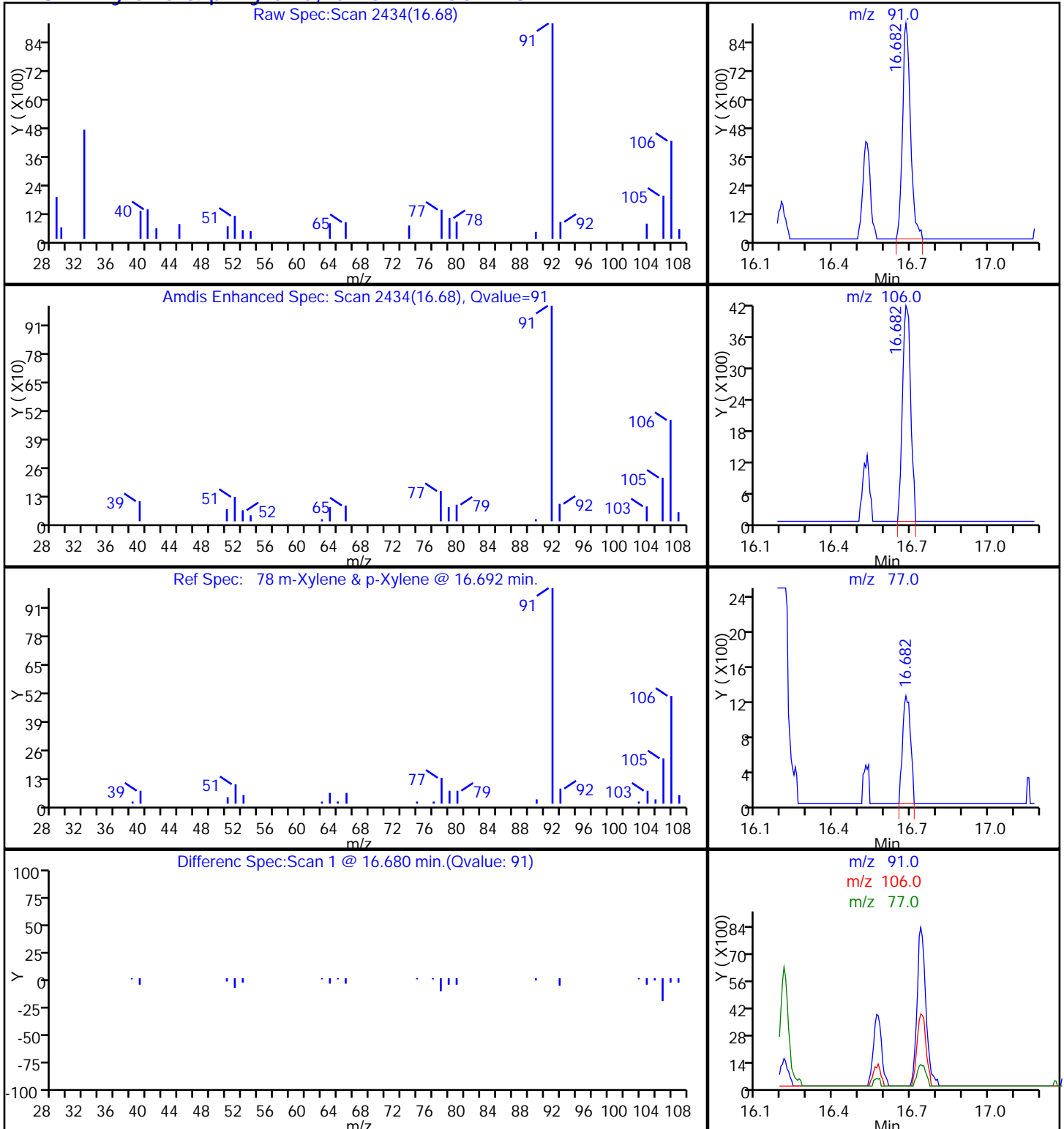
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

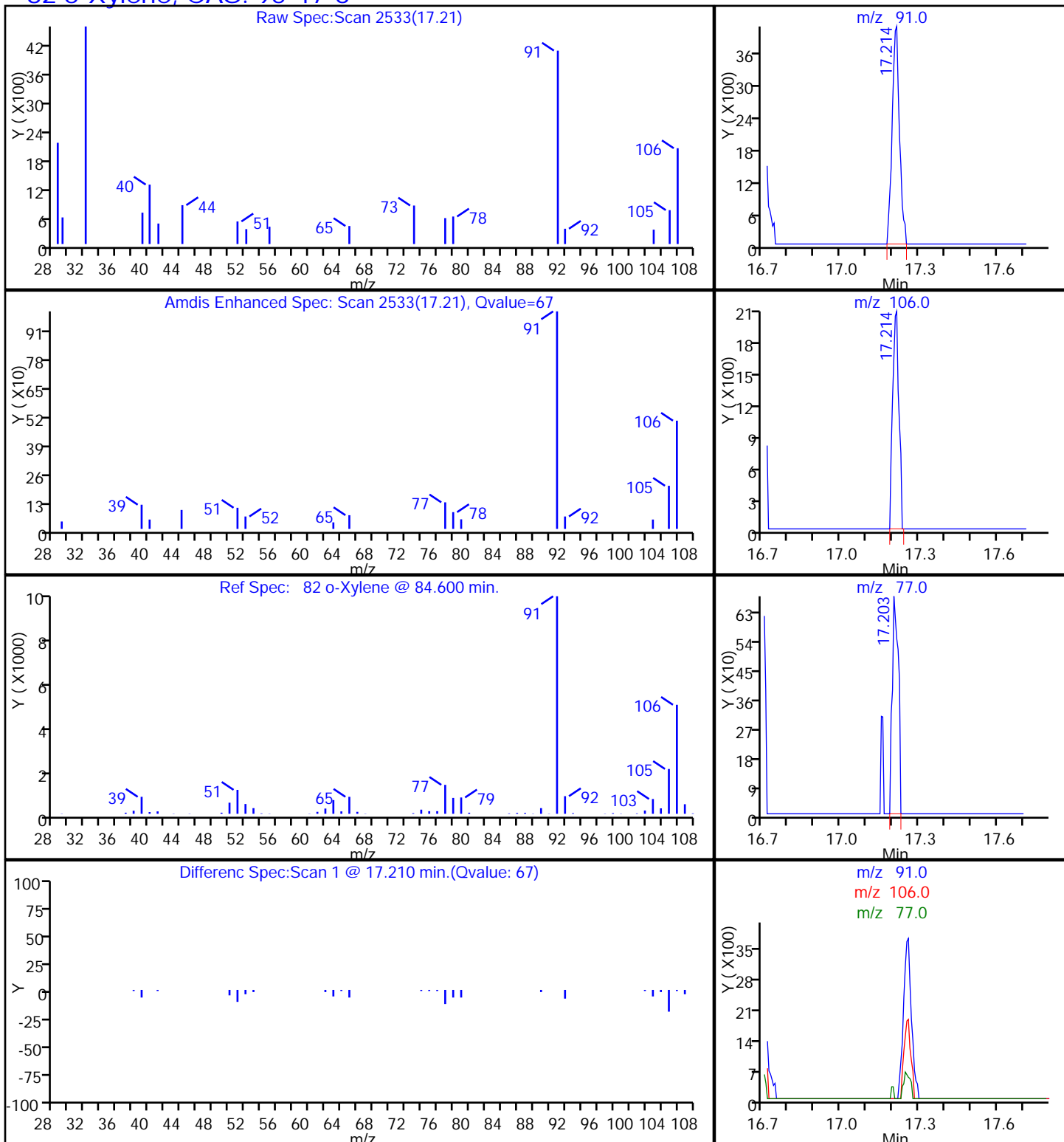
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

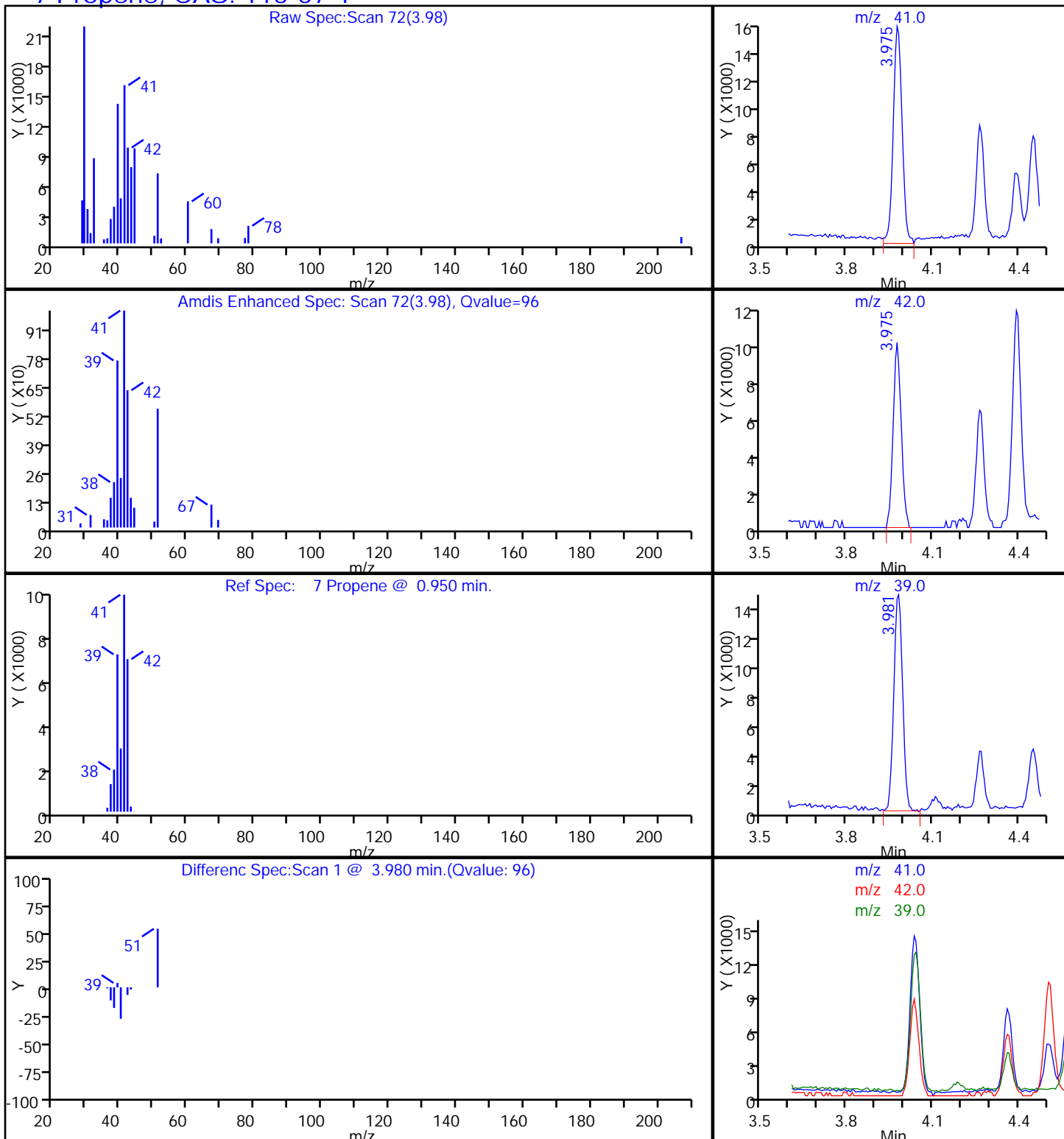
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

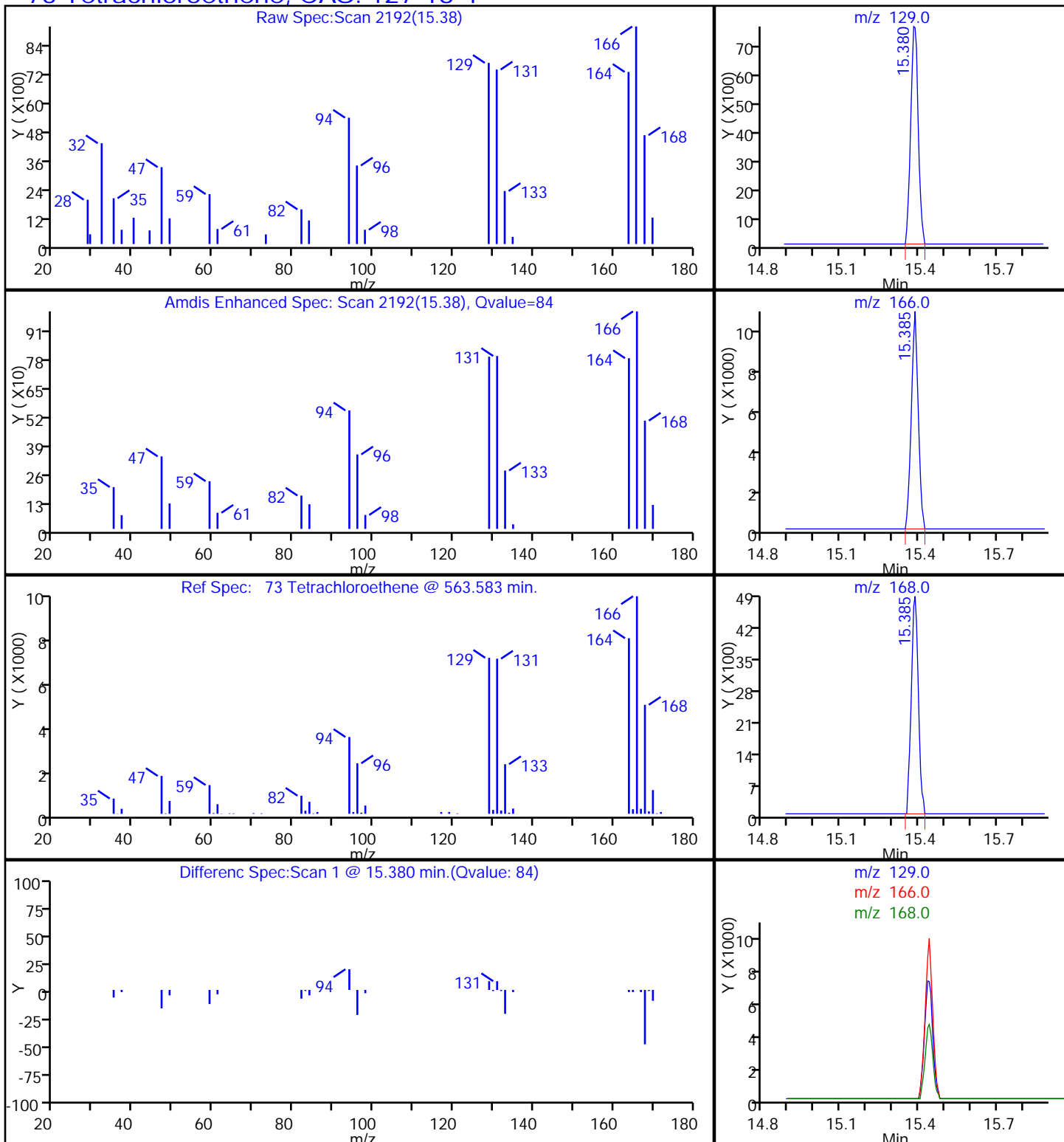
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

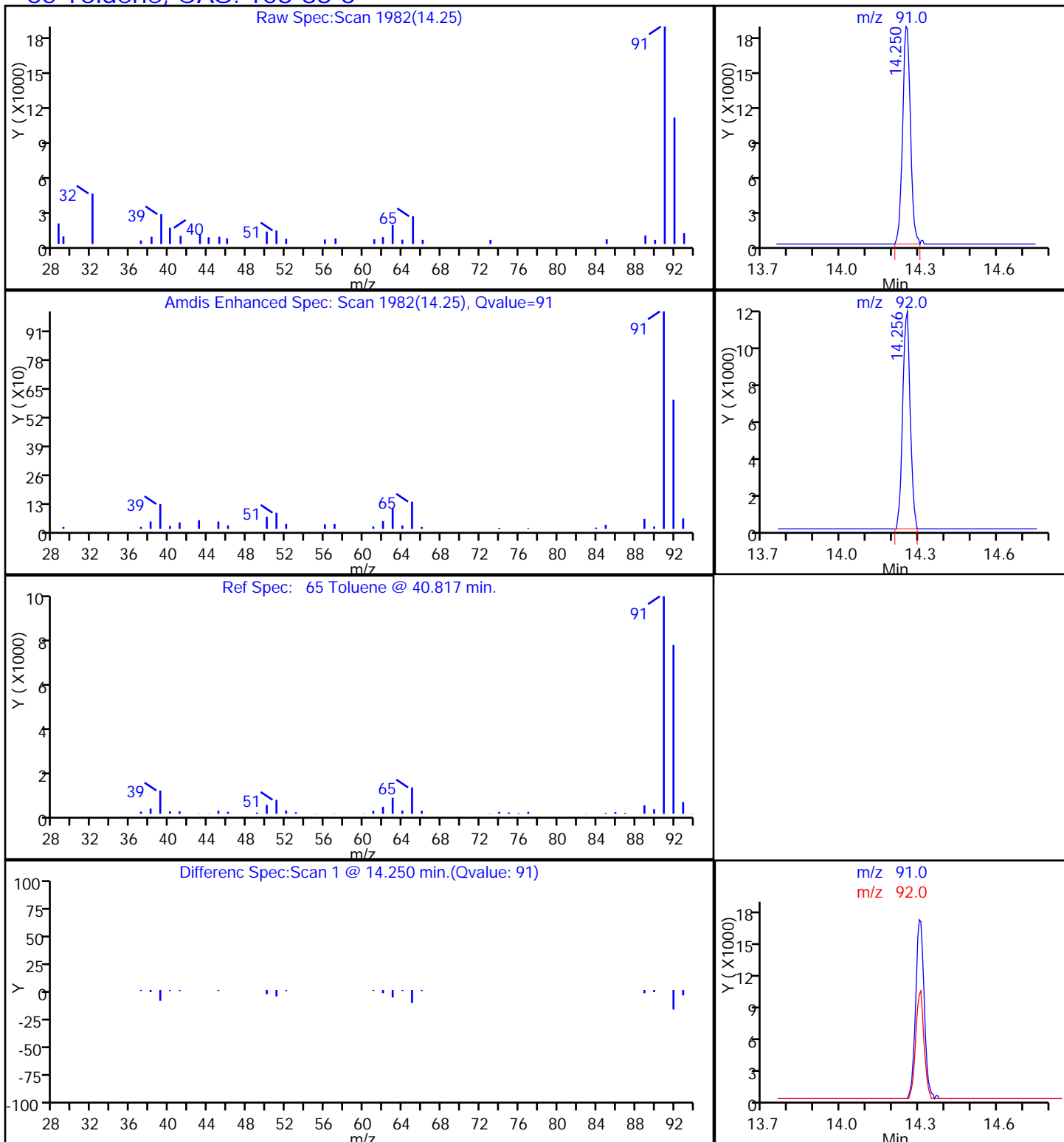
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P208.D

Injection Date: 19-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-5

Lab Sample ID: 140-1063-5

Client ID: AMB-2

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

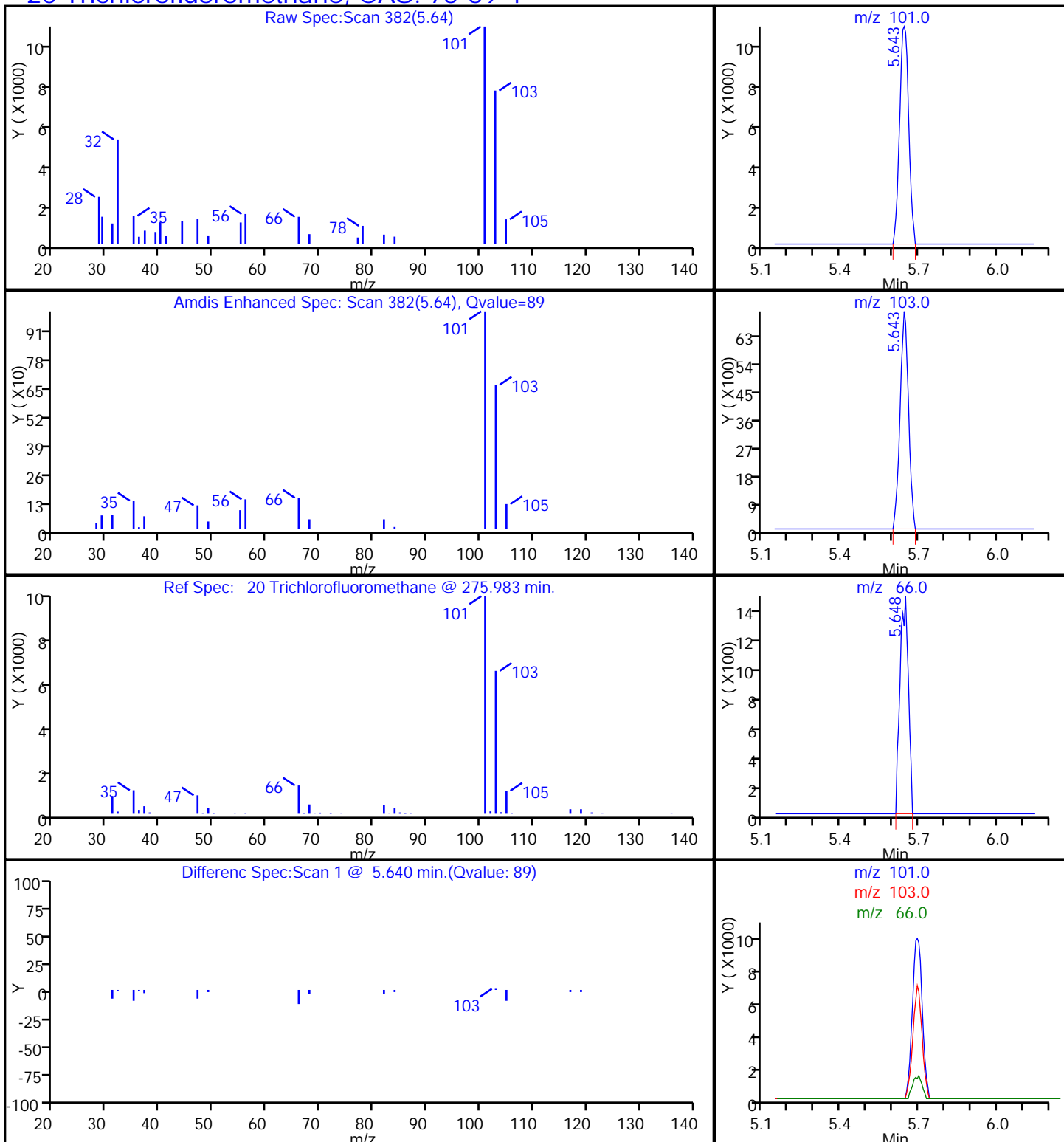
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6
 Matrix: Air Lab File ID: JC18P209.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:49
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.047	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.61	J	1.0	0.20
591-78-6	2-Hexanone	100.20	0.058	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	0.27	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.15	J	0.50	0.045
67-64-1	Acetone	58.08	3.2	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6
 Matrix: Air Lab File ID: JC18P209.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:49
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.49	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	8.0		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.057	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.64	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.23	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.14	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.60	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.55		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.29		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.19	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6
 Matrix: Air Lab File ID: JC18P209.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:49
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6
 Matrix: Air Lab File ID: JC18P209.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:49
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	0.24	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	0.80	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.60	J	2.0	0.18
67-64-1	Acetone	58.08	7.5	J	12	3.3
71-43-2	Benzene	78.11	0.69		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6
 Matrix: Air Lab File ID: JC18P209.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:49
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	15		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.23	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.40	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.6	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.81	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.61	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	1.0	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	3.7		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-4 Lab Sample ID: 140-1063-6
 Matrix: Air Lab File ID: JC18P209.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:49
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D
 Lims ID: 140-1063-A-6 Lab Sample ID: 140-1063-6
 Client ID: AMB-4
 Sample Type: Client
 Inject. Date: 19-Mar-2014 03:20:30 ALS Bottle#: 9 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-6
 Misc. Info.: J031814,TO15,,140-0000527-015
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 13:03:37 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:04:05

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.380	9.388	-0.008	89	362335	4.00	
* 2 1,4-Difluorobenzene	114	11.537	11.539	-0.002	94	1751097	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.196	16.198	-0.002	93	1422550	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.817	0.003	91	903134	3.59	
7 Propene	41	3.979	3.971	0.008	93	26729	0.2406	
8 Dichlorodifluoromethane	85	4.027	4.030	-0.003	100	62205	0.1733	
9 Chloromethane	52	4.227	4.229	-0.002	97	8066	0.1978	
17 Ethanol	31	5.114	5.116	-0.002	94	93475	3.21	
19 2-Methylbutane	43	5.410	5.407	0.003	89	16782	0.1091	
20 Trichlorofluoromethane	101	5.641	5.644	-0.003	84	24461	0.0776	
23 Acetone	58	5.765	5.767	-0.002	92	64980	1.26	
24 Isopropyl alcohol	45	5.856	5.848	0.008	77	34990	0.2573	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.577	6.580	-0.003	68	5967	0.0273	
31 Methylene Chloride	84	6.755	6.757	-0.002	81	9010	0.0930	
39 2-Butanone (MEK)	72	8.600	8.586	0.014	97	8408	0.2451	
40 Hexane	56	8.632	8.635	-0.003	59	4381	0.0450	
48 Benzene	78	11.021	11.023	-0.002	89	26007	0.0866	
50 Carbon tetrachloride	117	11.048	11.050	-0.002	87	6726	0.0271	
53 Isooctane	57	11.763	11.760	0.003	51	9546	0.0186	
54 n-Heptane	71	12.118	12.120	-0.002	81	2427	0.0228	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.368	0.009	86	10789	0.0588	
65 Toluene	91	14.254	14.256	-0.002	84	30339	0.1150	
69 2-Hexanone	58	14.695	14.681	0.014	46	2003	0.0232	
73 Tetrachloroethene	129	15.384	15.386	-0.002	89	27044	0.2200	
78 m-Xylene & p-Xylene	91	16.685	16.688	-0.003	84	13233	0.0563	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Worklist Smp#: 15

Client ID: AMB-4

Purge Vol: 500.000 mL

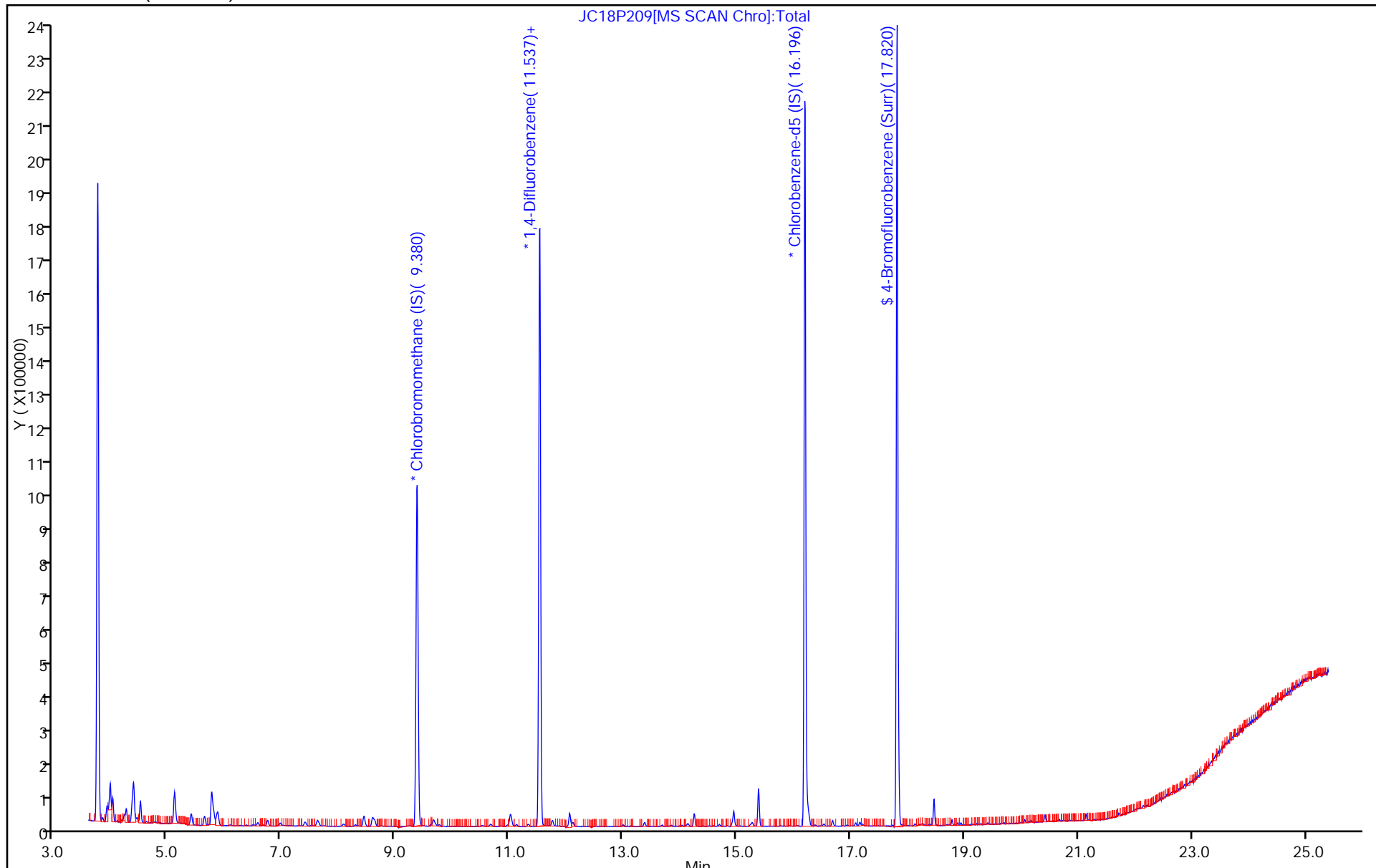
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

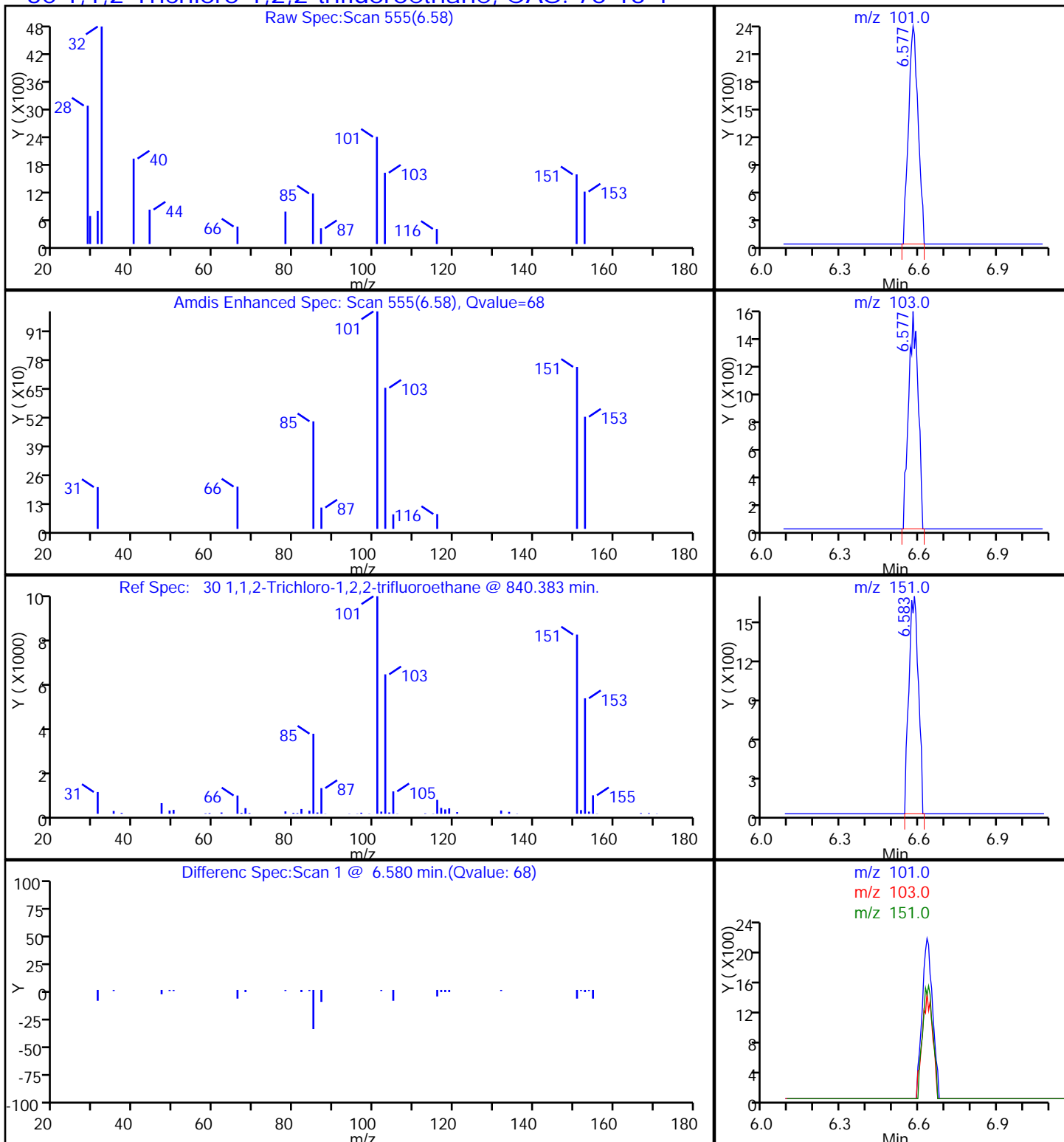
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

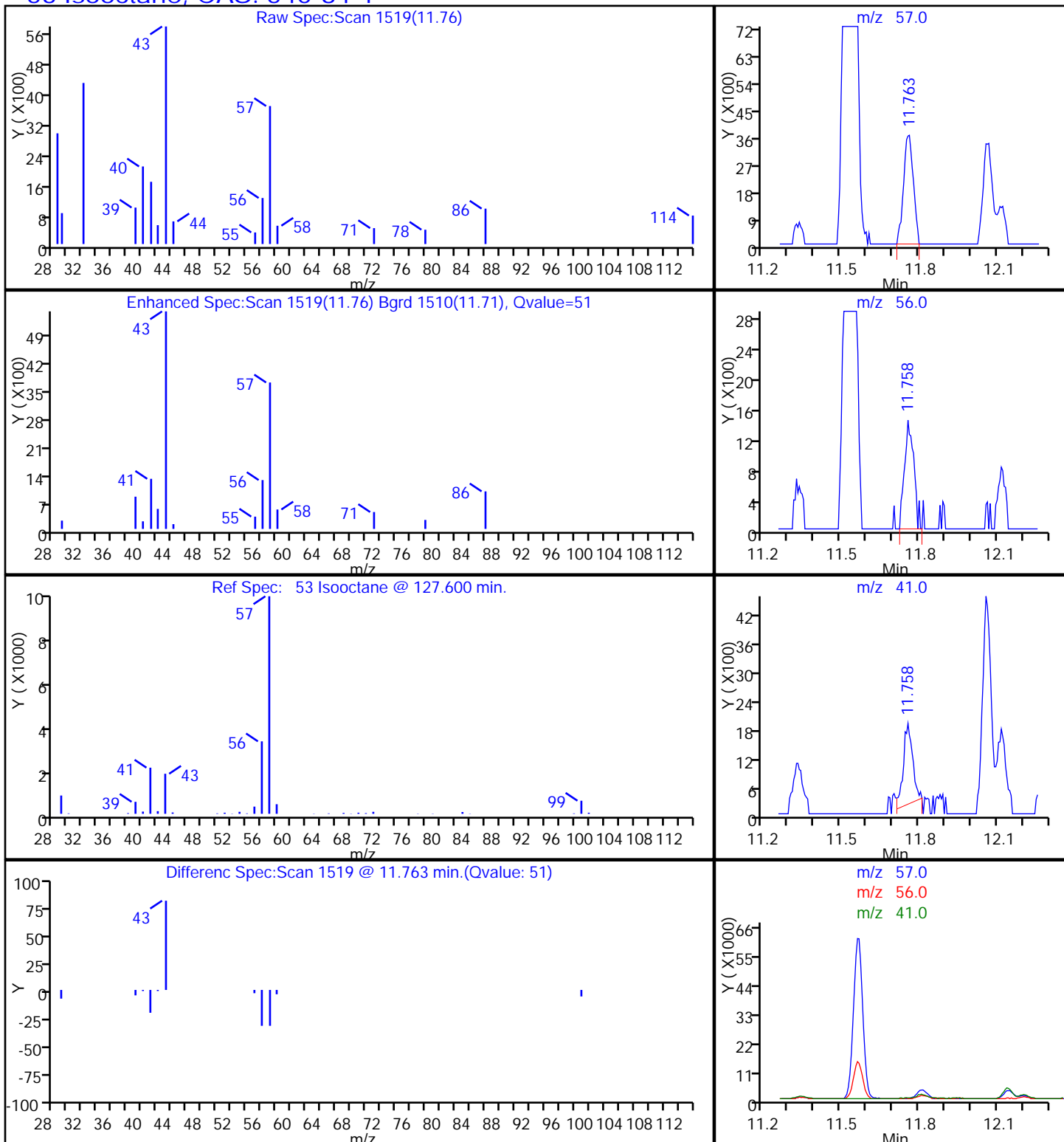
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

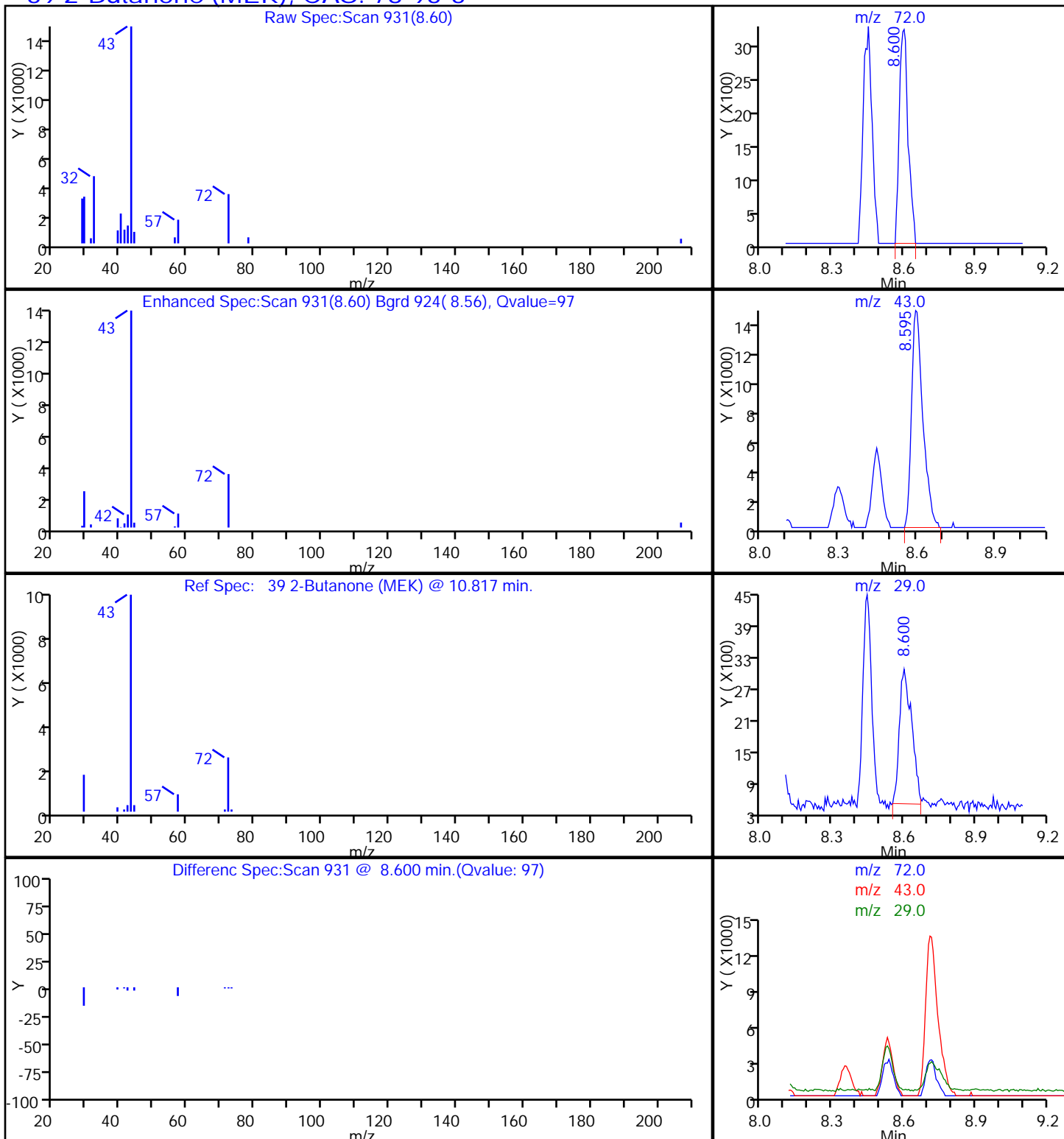
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

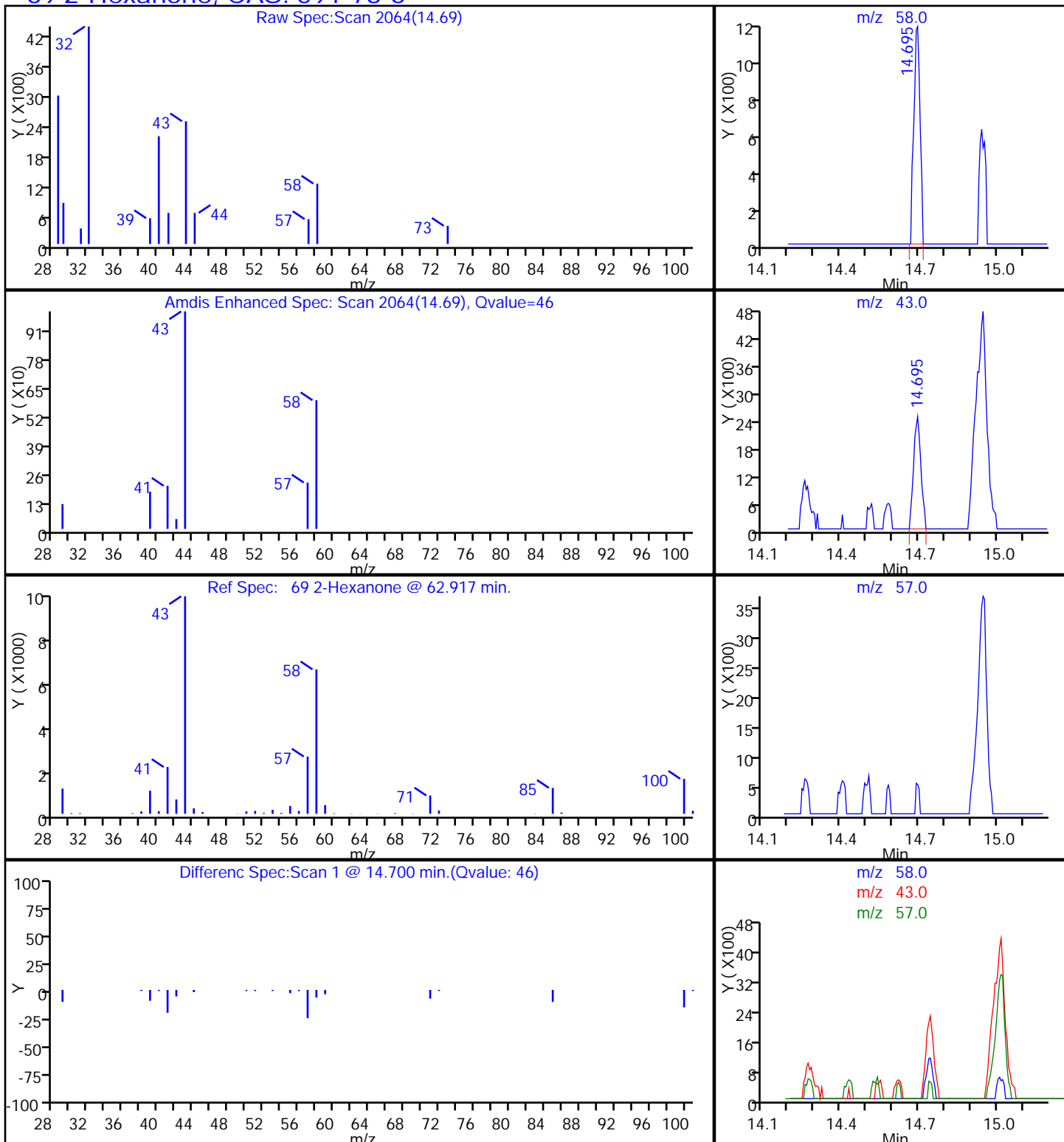
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

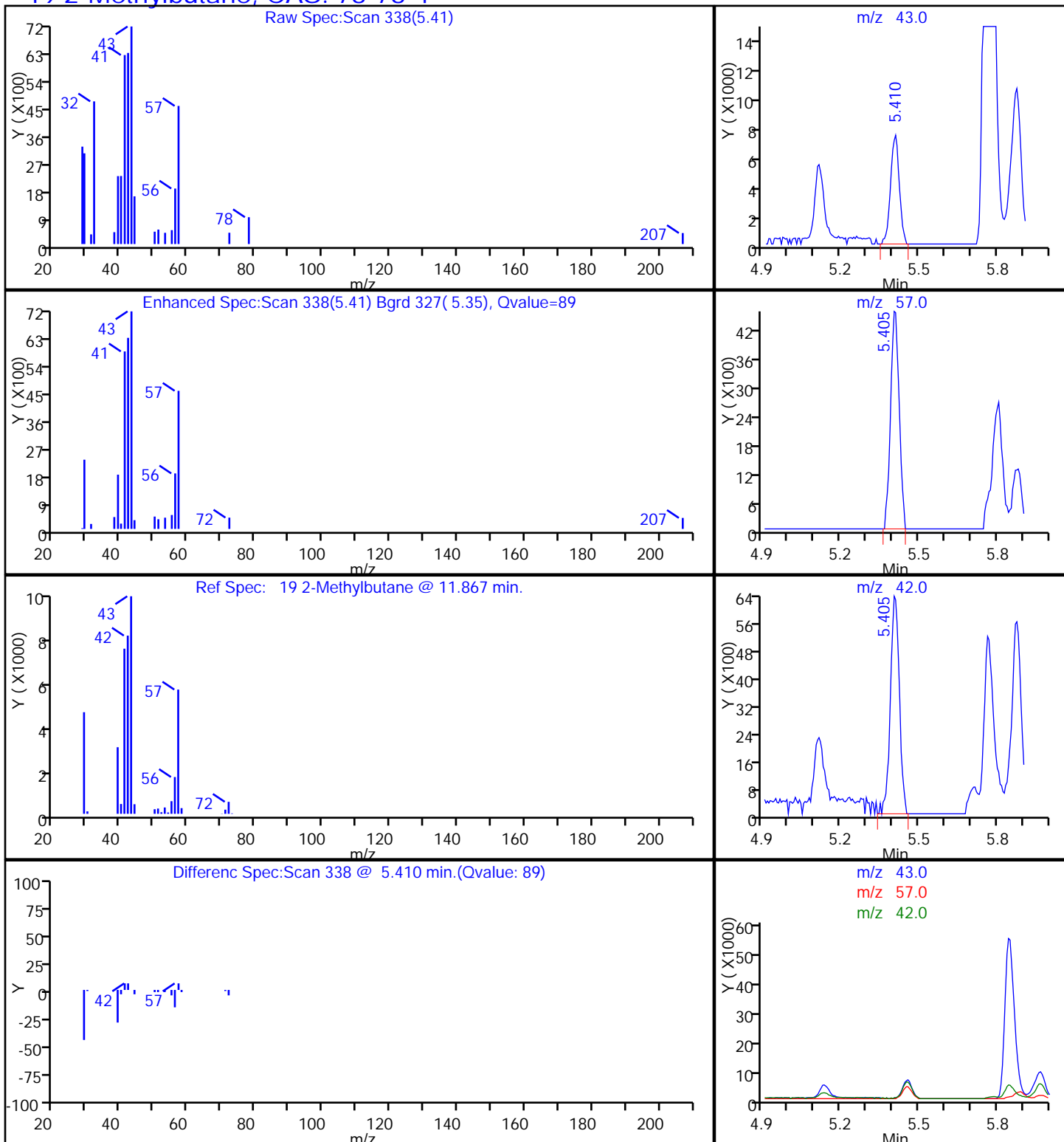
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

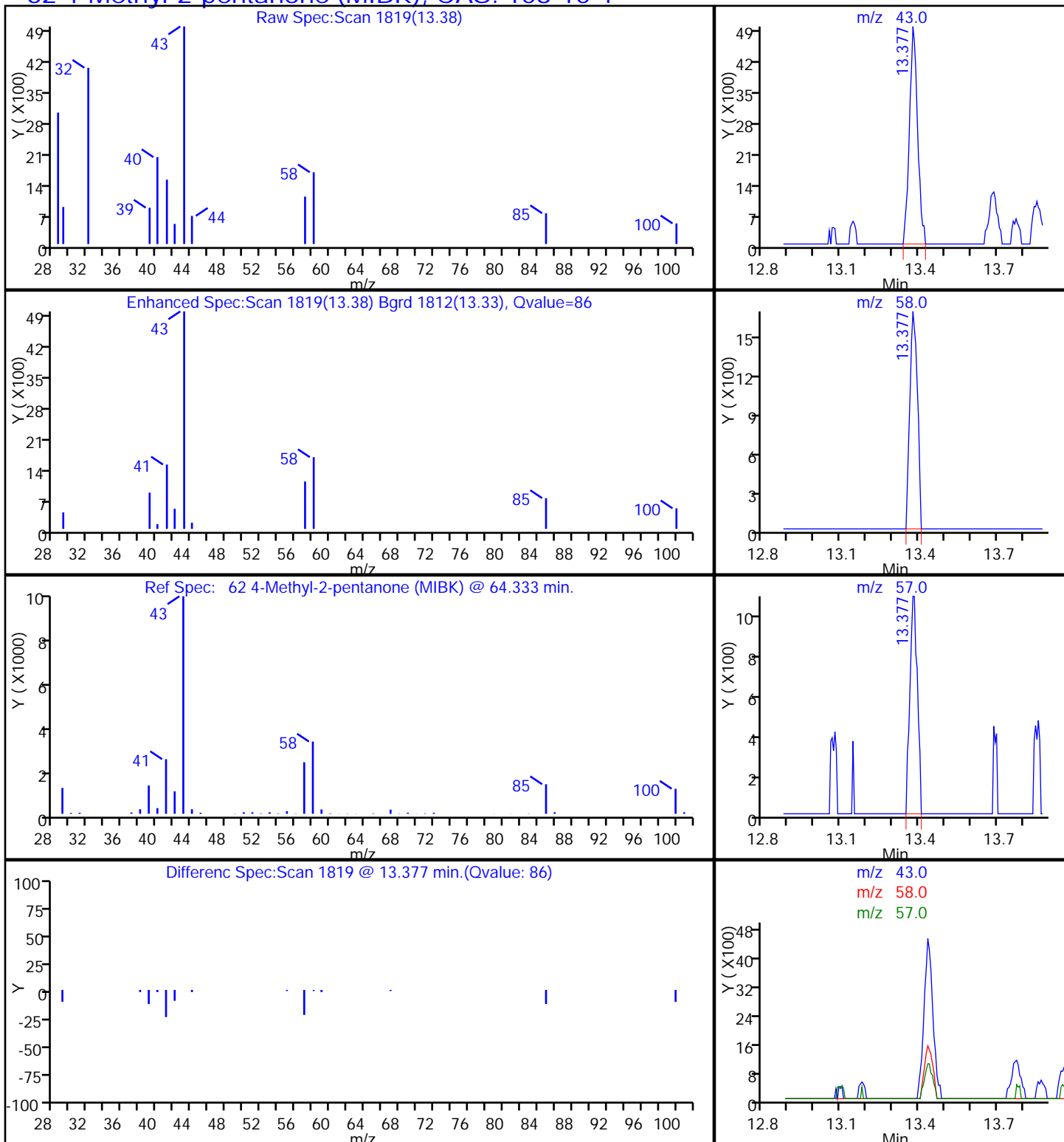
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

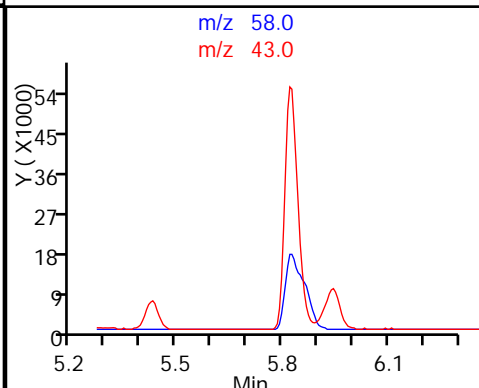
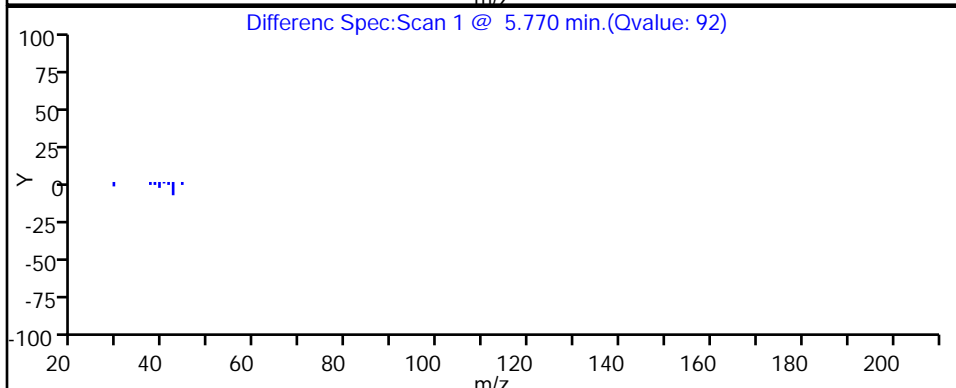
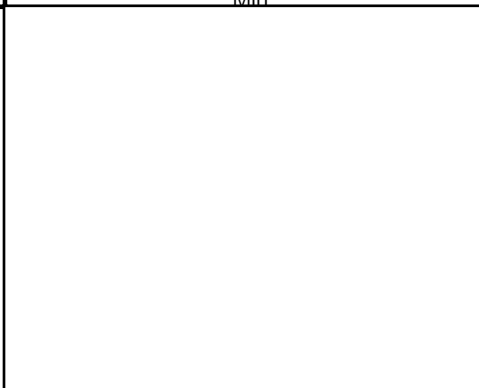
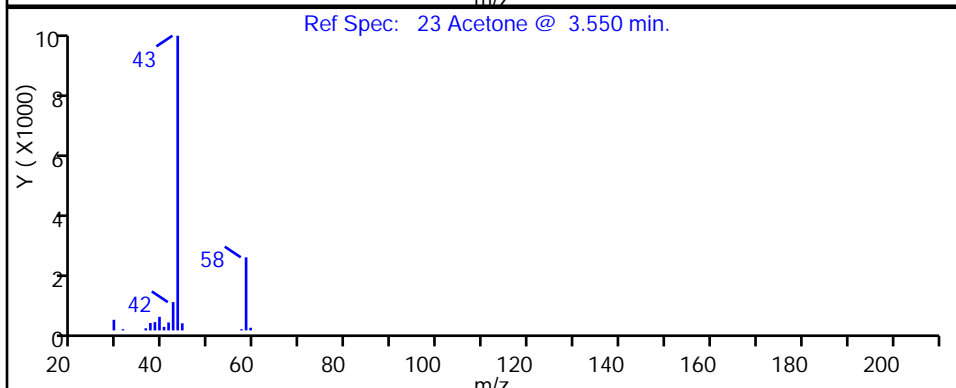
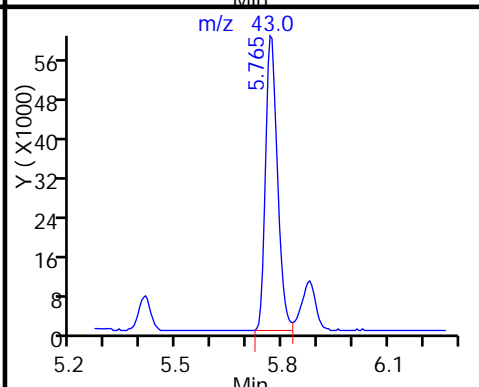
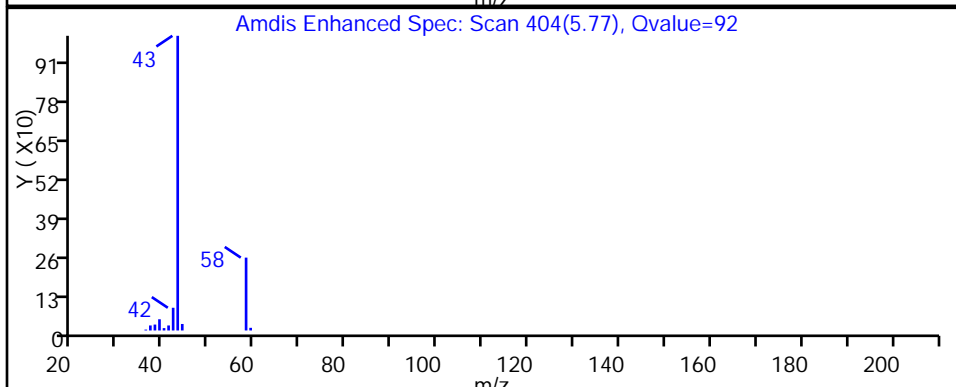
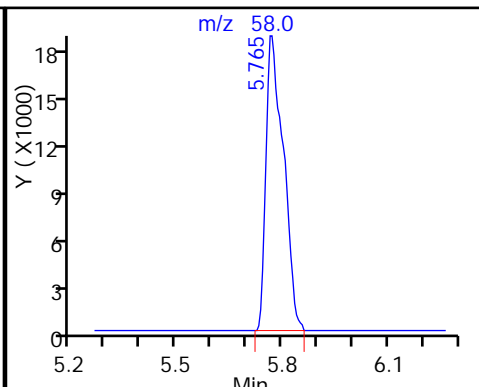
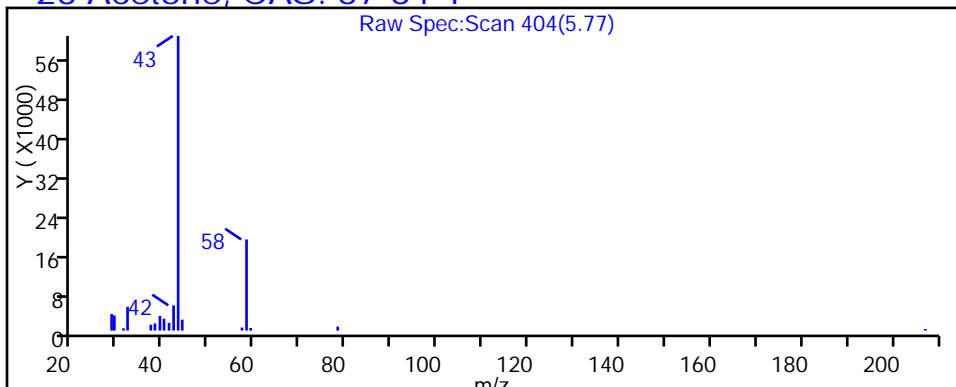
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

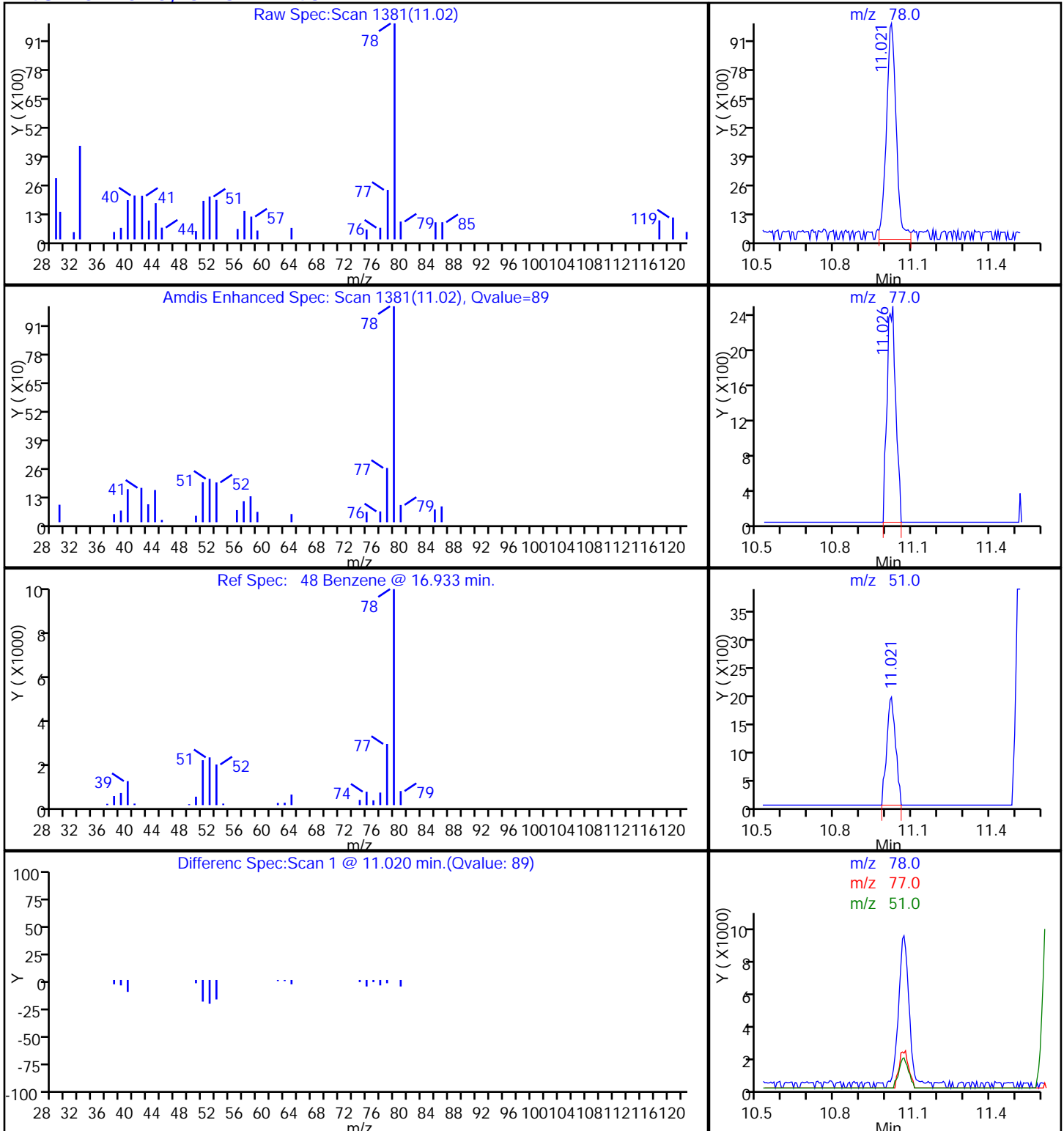
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

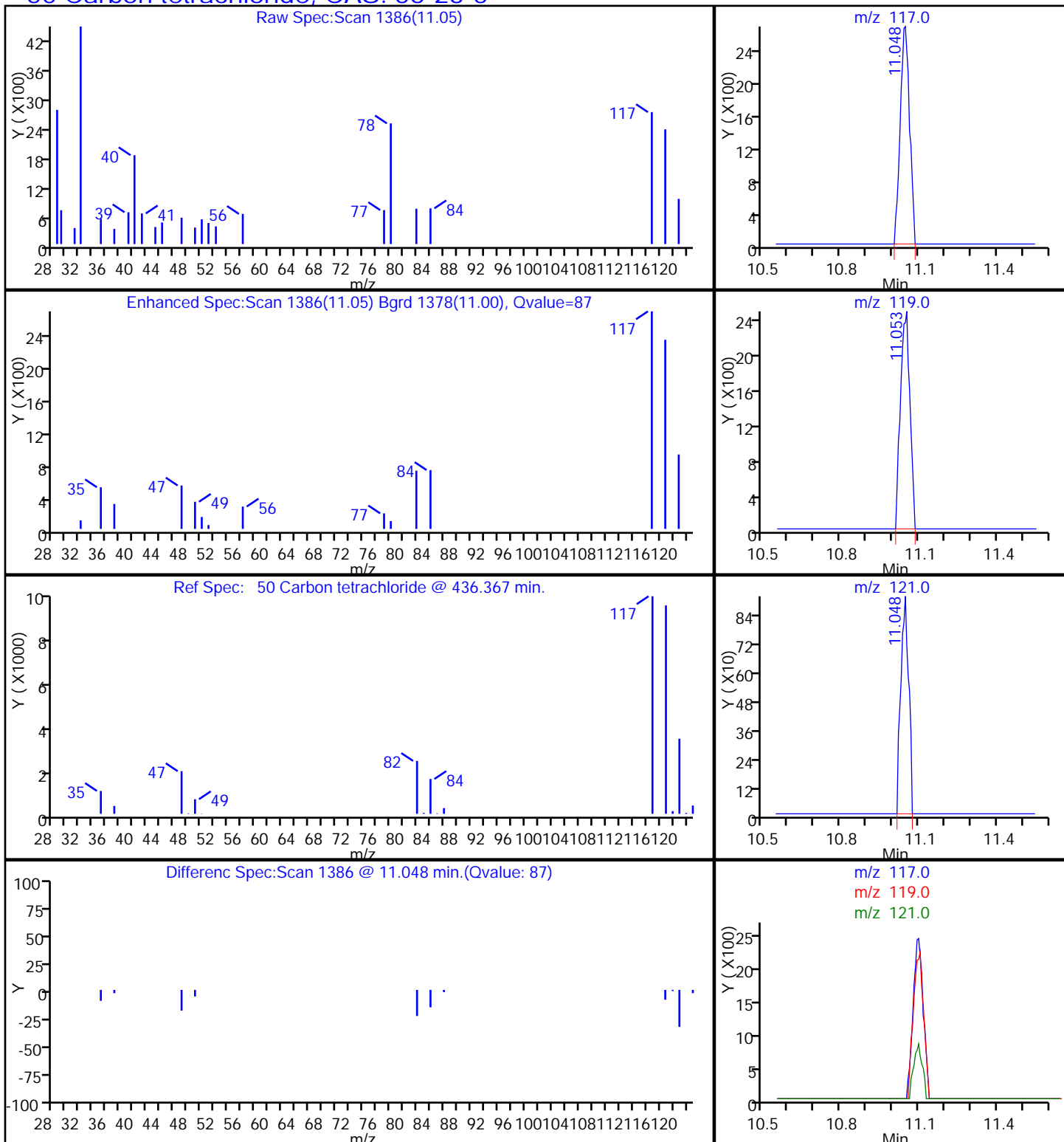
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

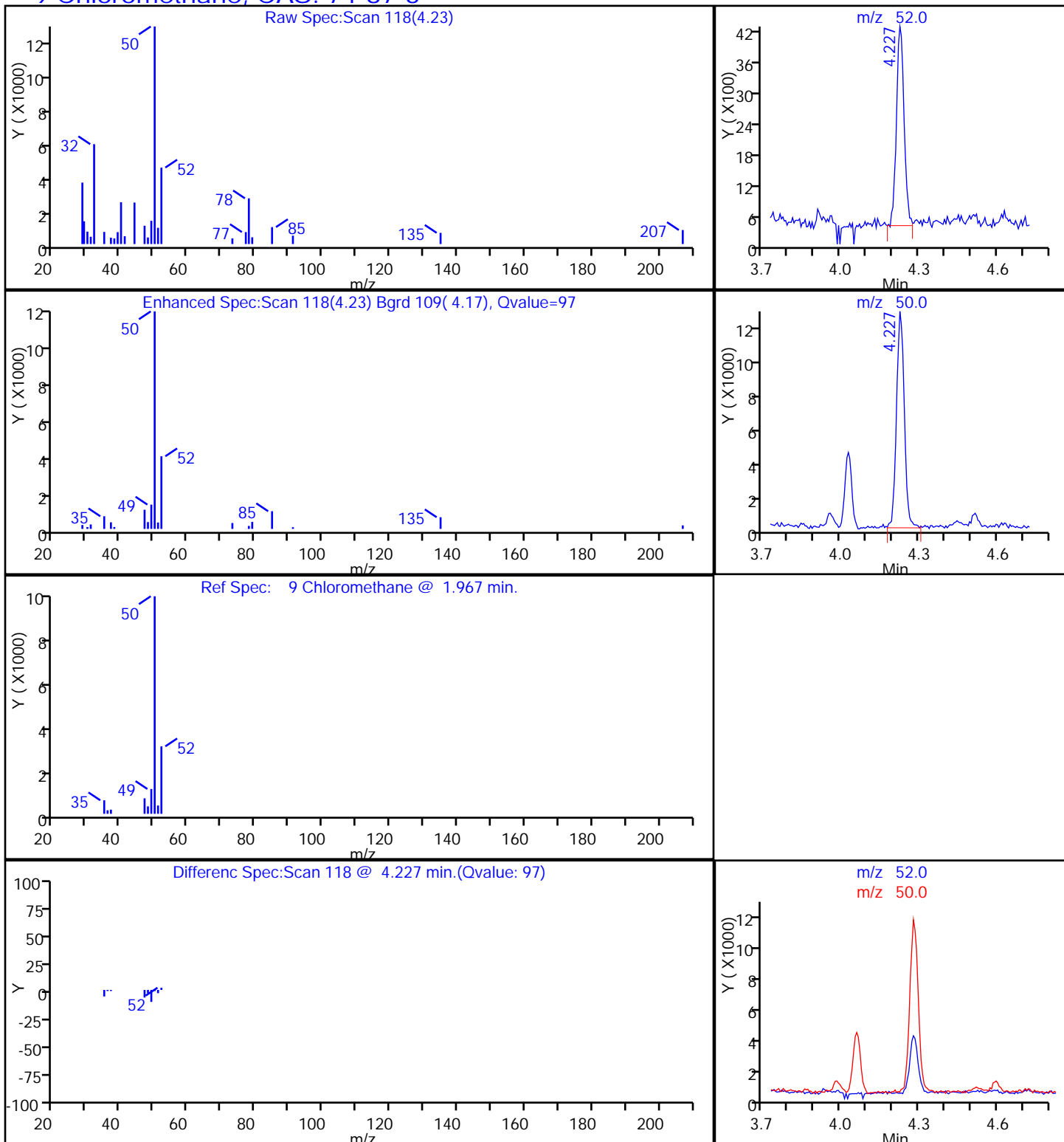
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

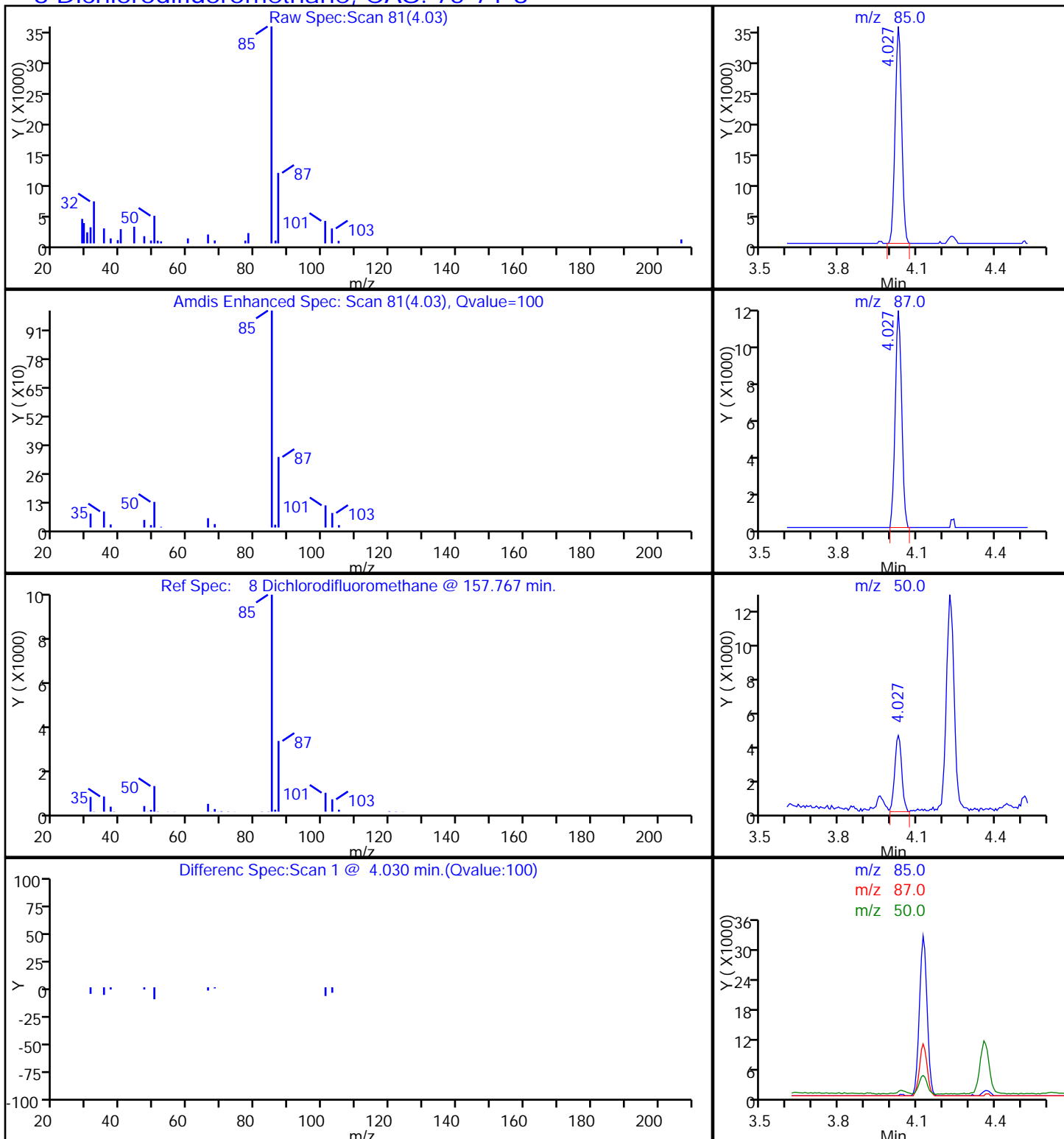
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

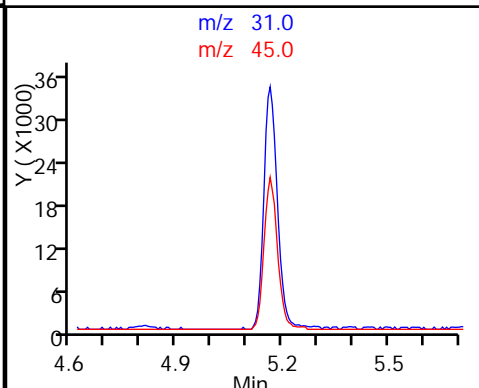
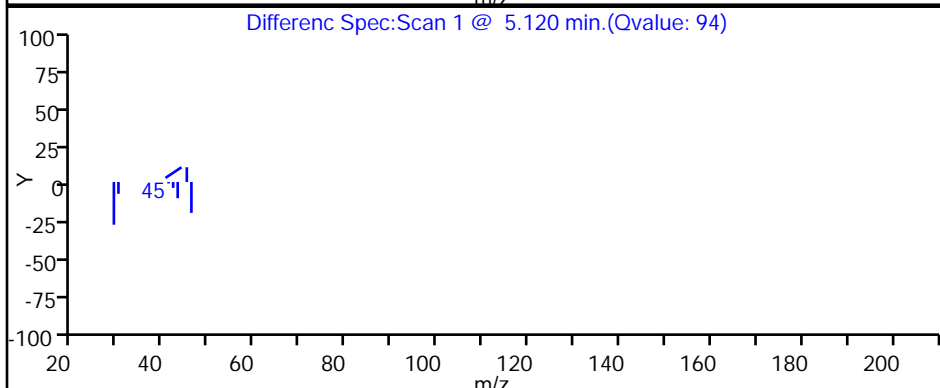
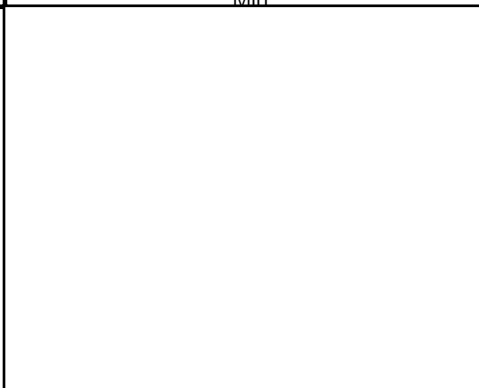
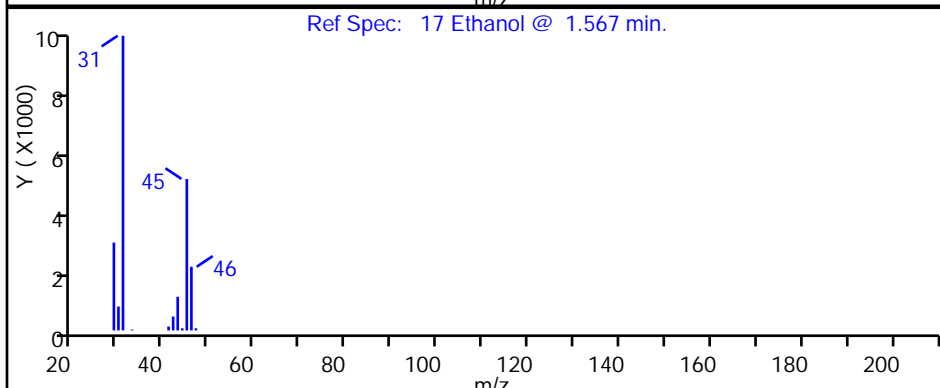
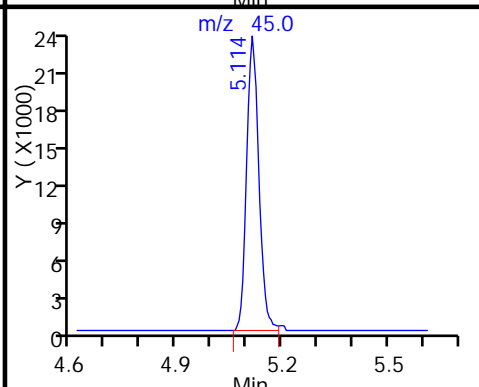
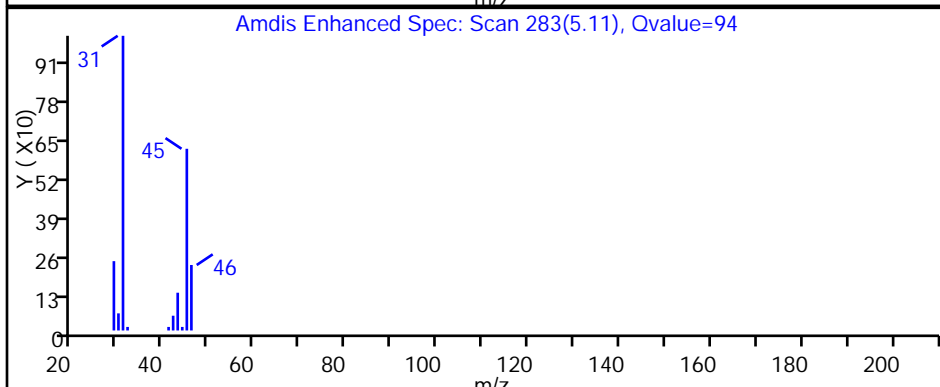
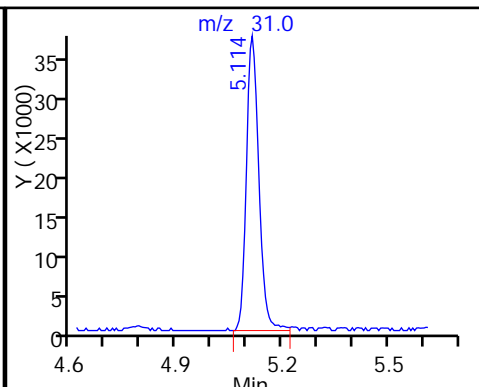
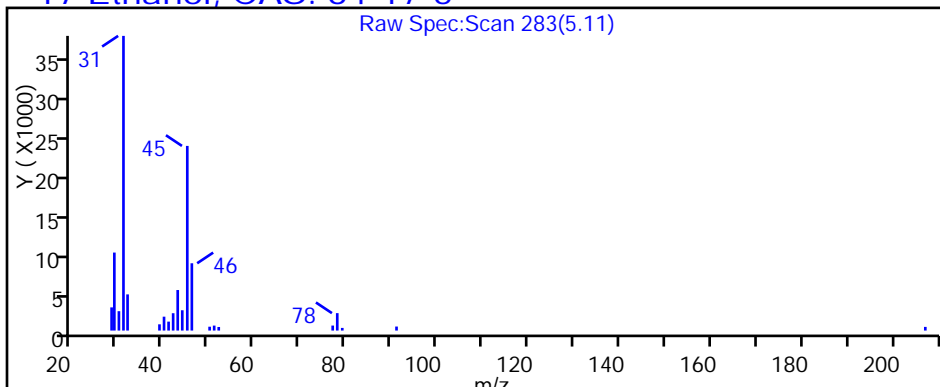
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

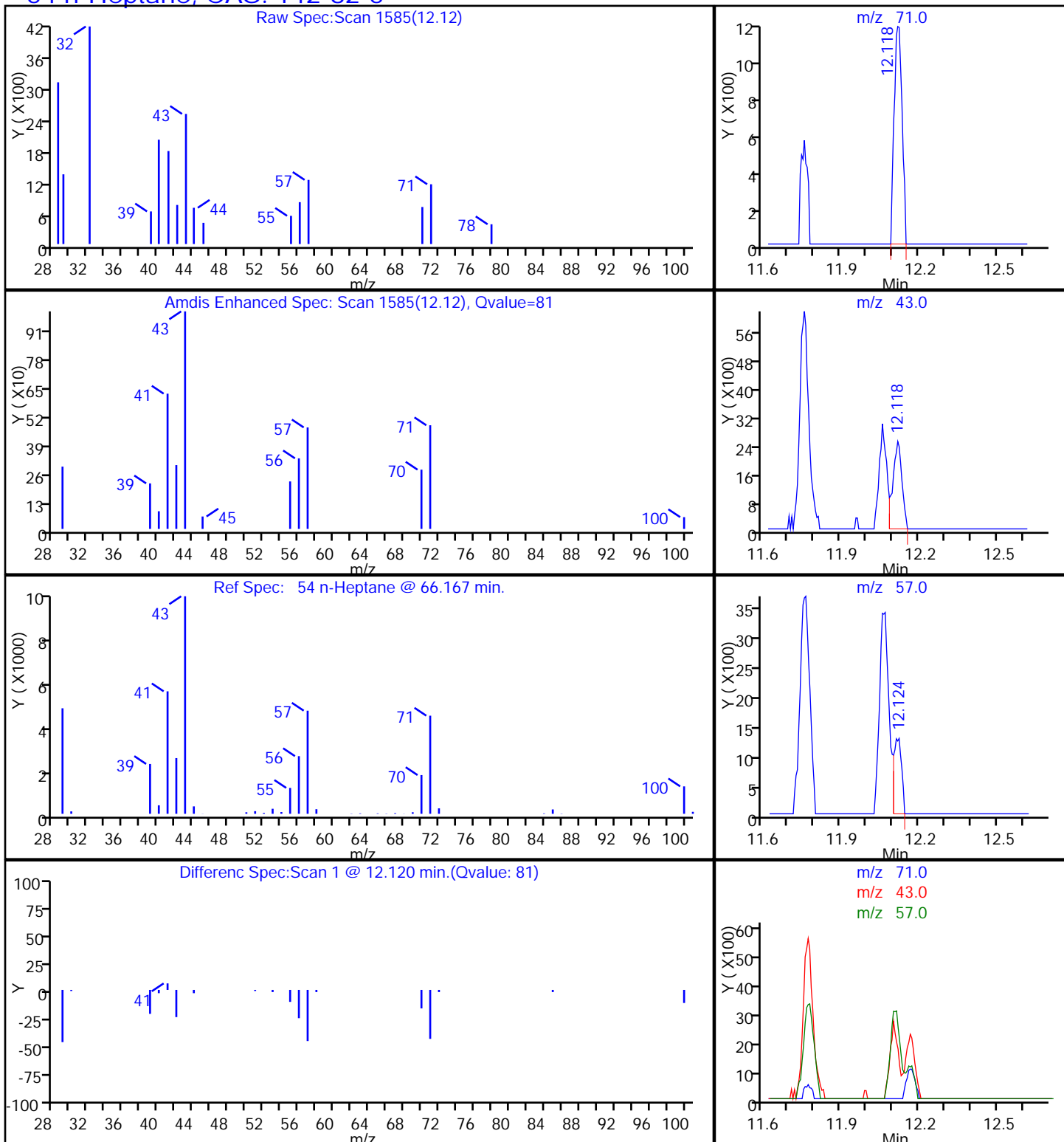
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

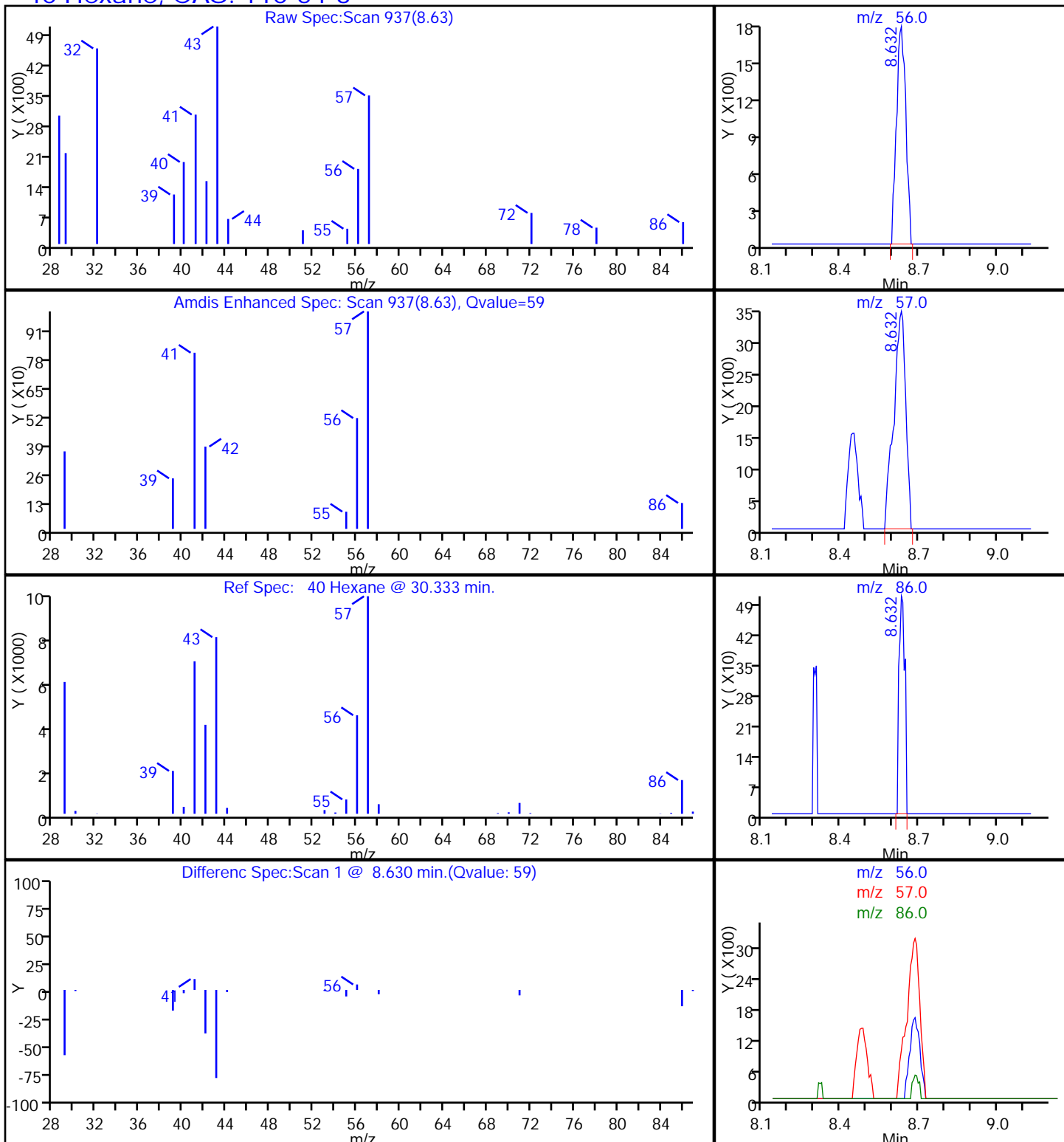
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

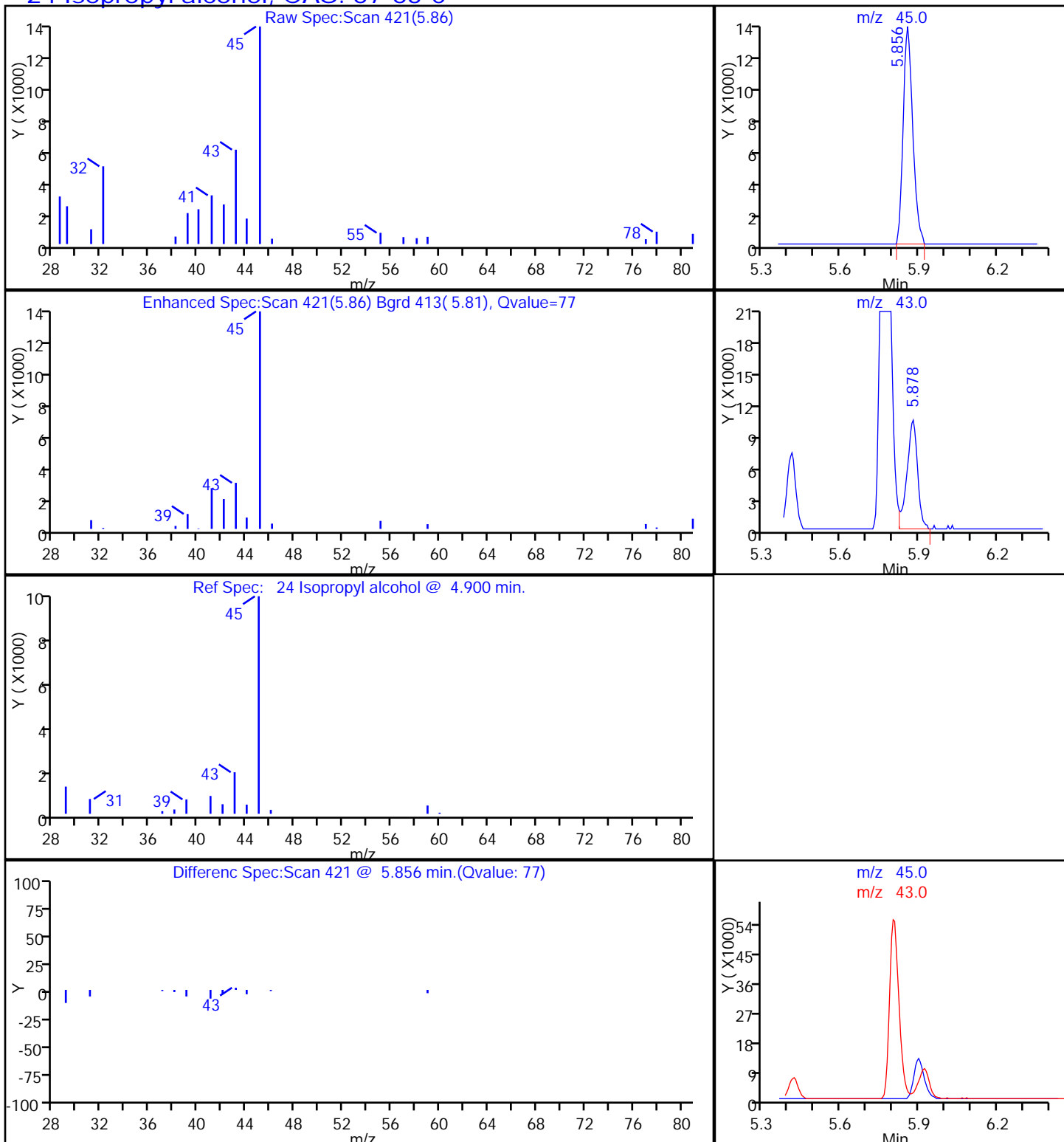
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

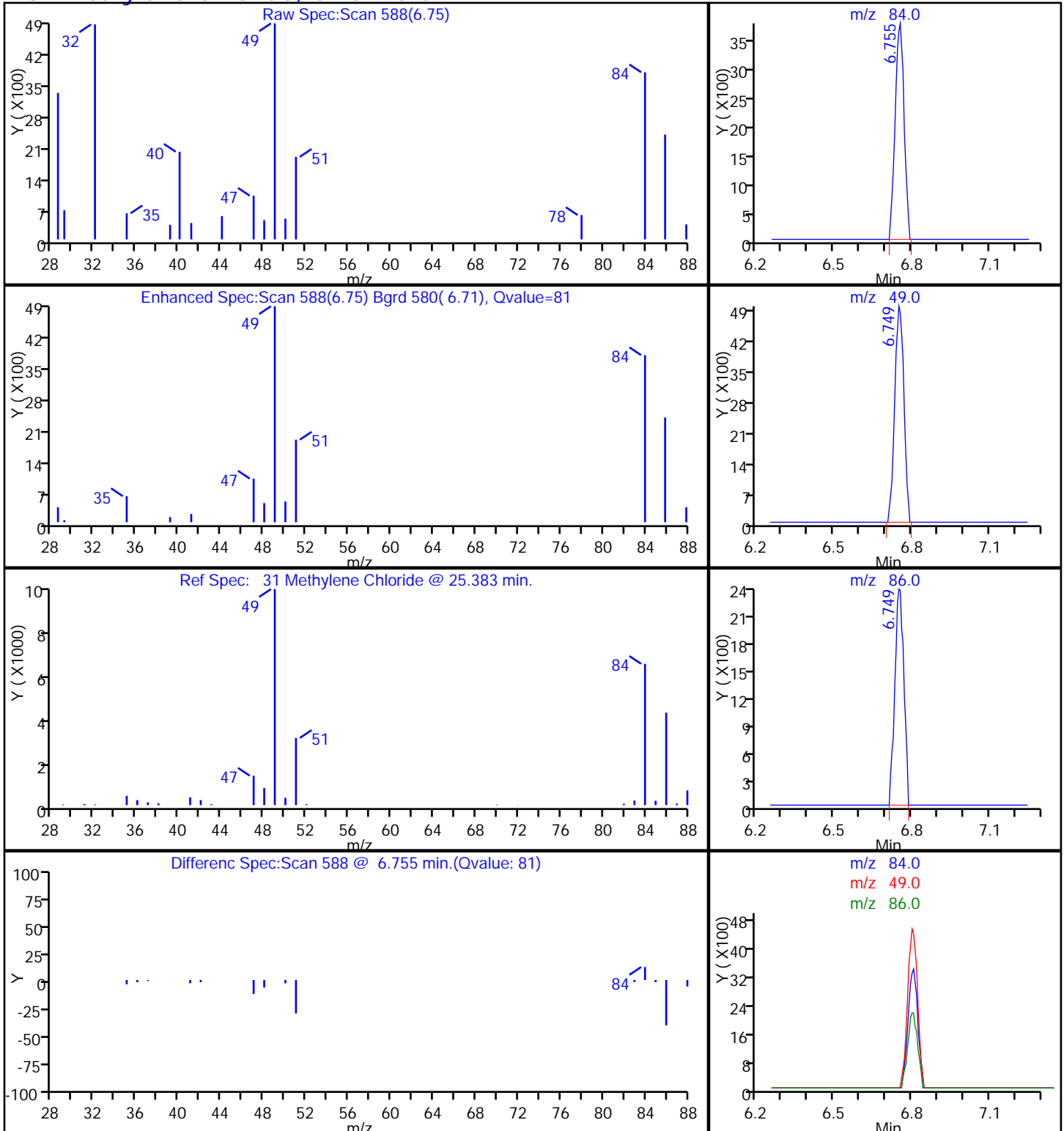
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

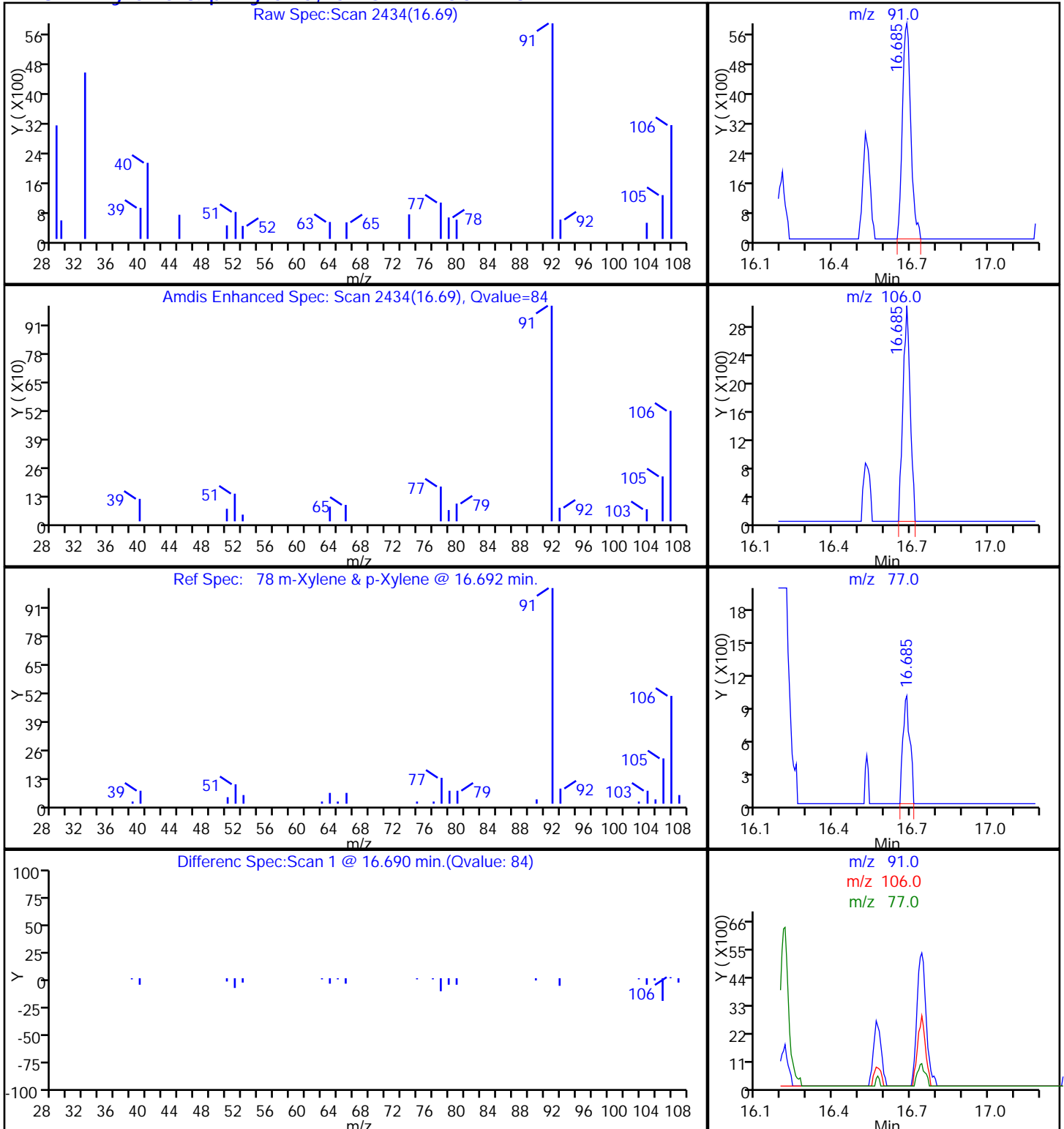
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

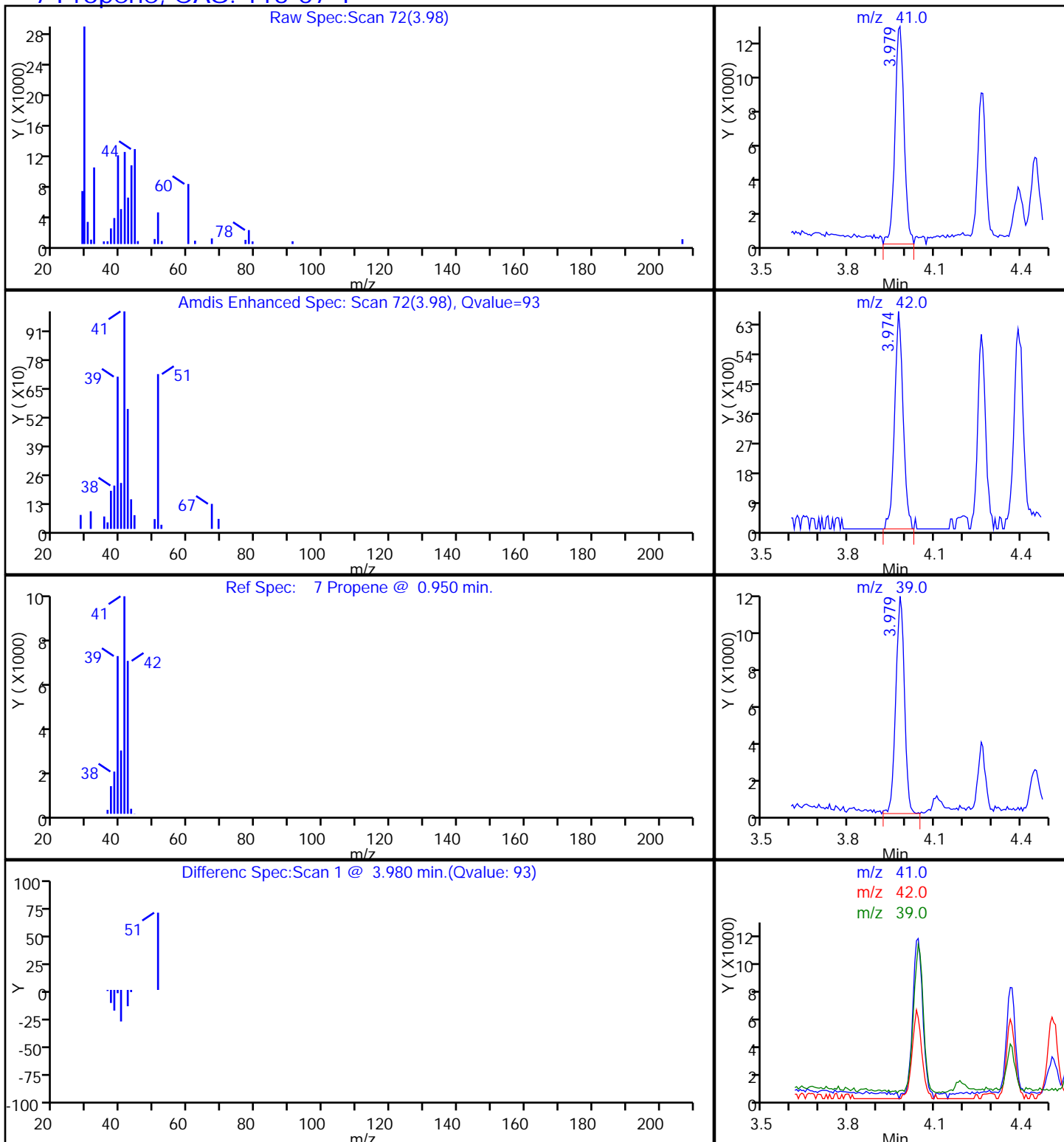
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

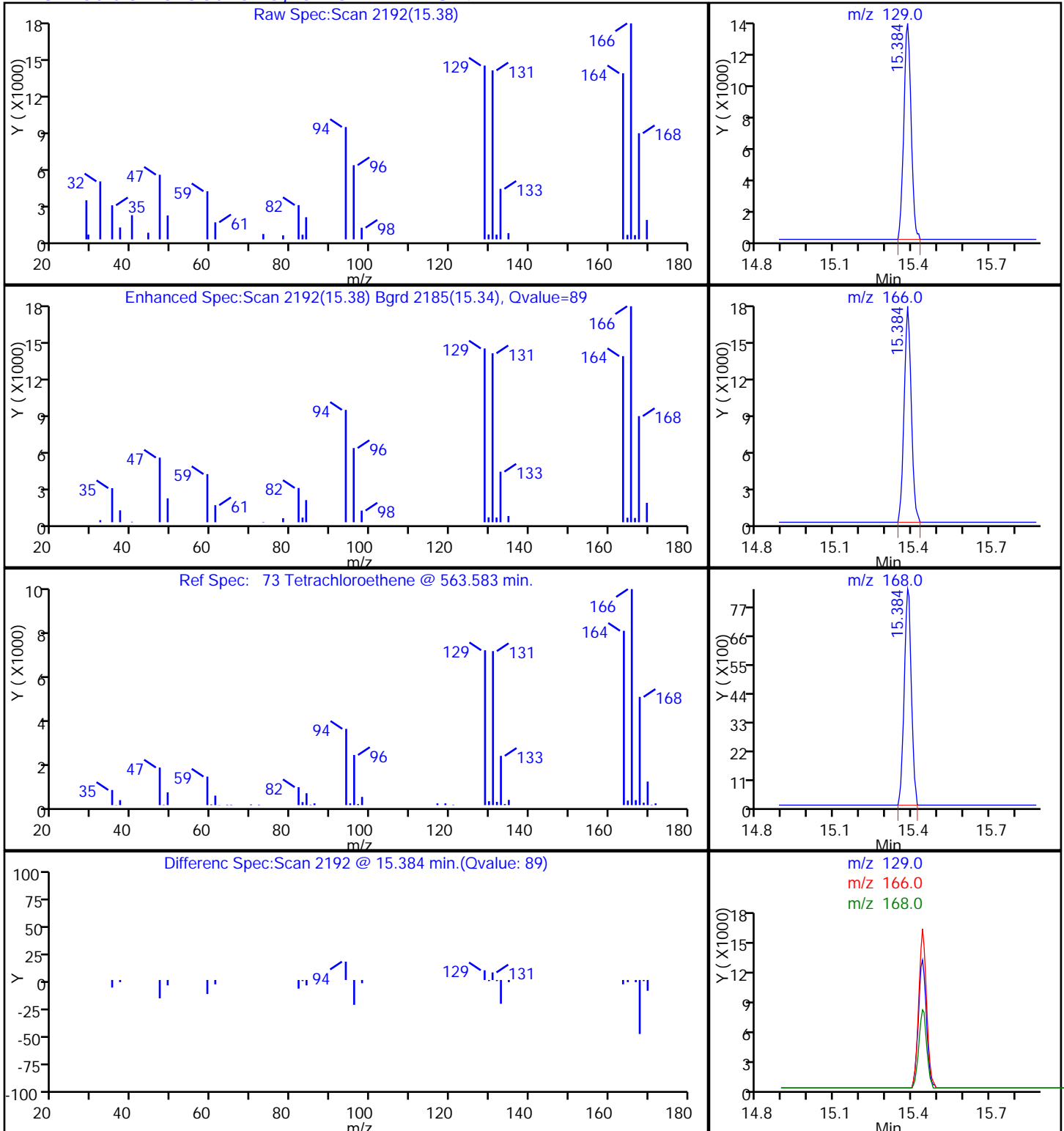
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

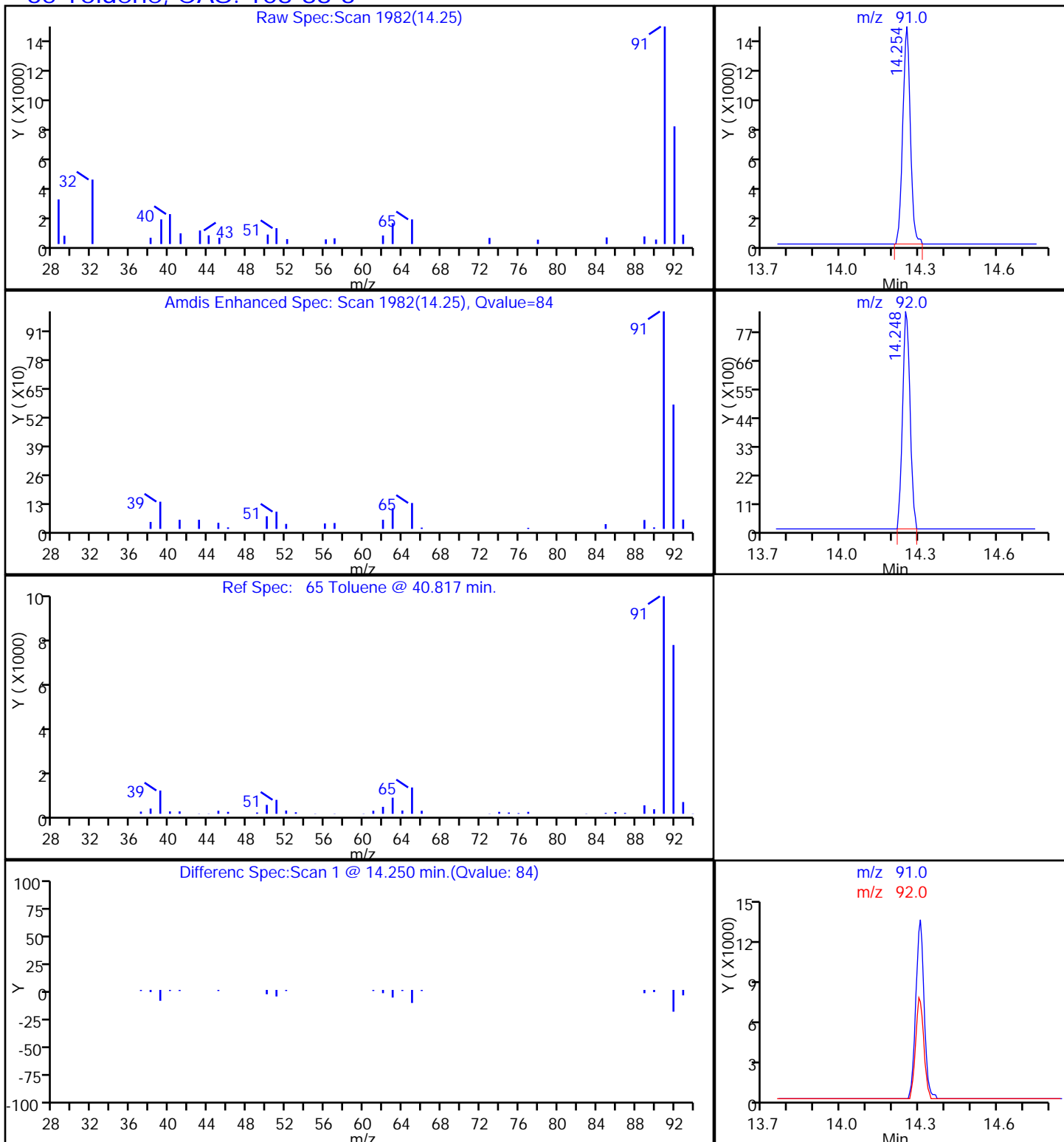
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P209.D

Injection Date: 19-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1063-A-6

Lab Sample ID: 140-1063-6

Client ID: AMB-4

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

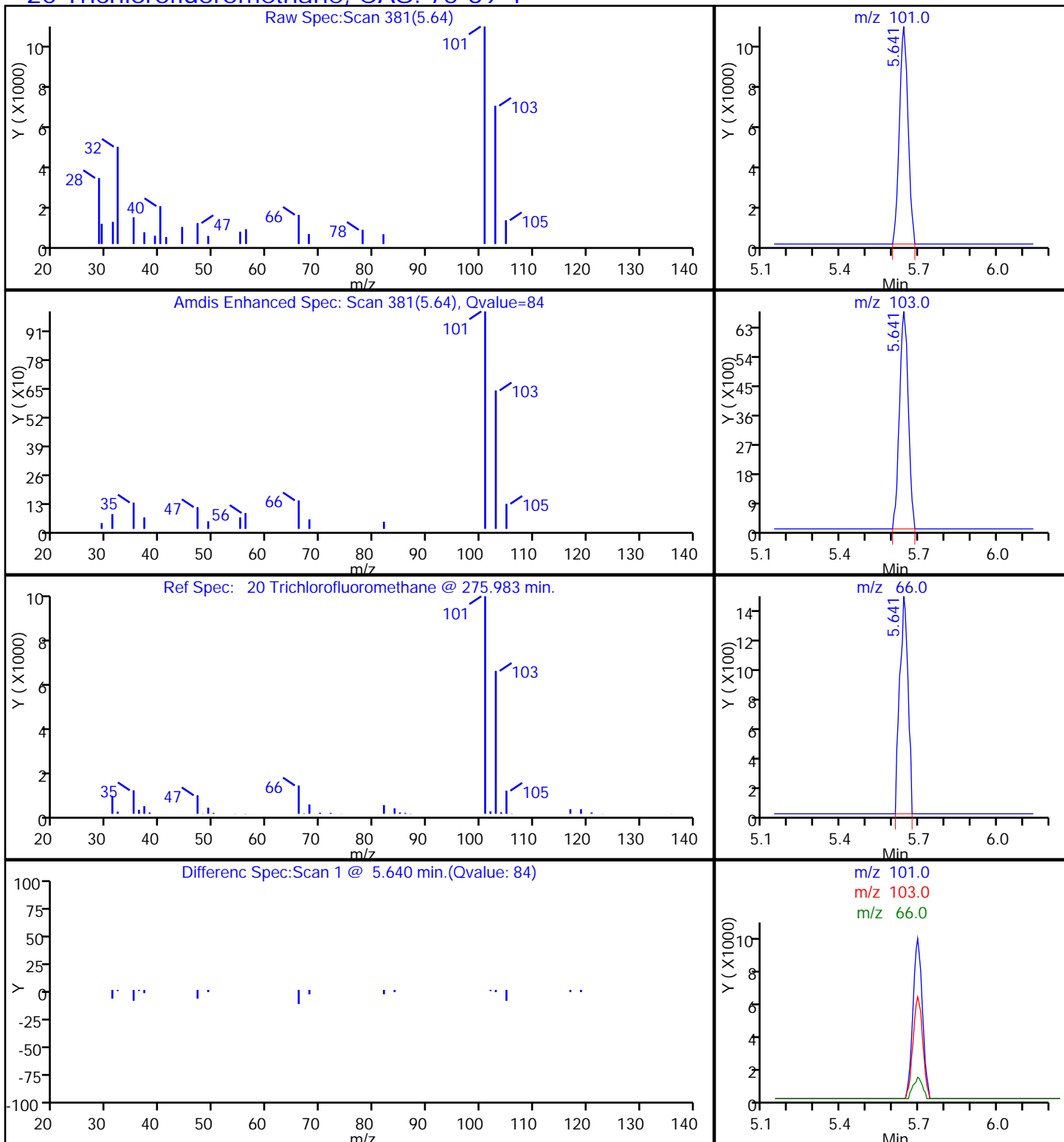
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8
 Matrix: Air Lab File ID: JC18P210.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:00
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.15	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.75	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.1		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.25		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.16	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.60		0.50	0.045
67-64-1	Acetone	58.08	4.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.39		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8
 Matrix: Air Lab File ID: JC18P210.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:00
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.16	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.57		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.072	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	53		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.38		0.20	0.068
142-82-5	Heptane	100.21	0.19	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.29	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.4		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	3.6		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	1.7		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.68		0.20	0.061
115-07-1	Propene	42.08	0.97	cn	0.50	0.077
100-42-5	Styrene	104.15	0.14	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.22		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.4		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8
 Matrix: Air Lab File ID: JC18P210.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:00
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 04:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8
 Matrix: Air Lab File ID: JC18P210.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:00
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.75	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.68	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	2.2	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	3.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.88		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.78	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.5		2.0	0.18
67-64-1	Acetone	58.08	11	J	12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8
 Matrix: Air Lab File ID: JC18P210.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:00
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 04:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.78	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.25	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	99		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.7		0.87	0.30
142-82-5	Heptane	100.21	0.79	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.0	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.8		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	13		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	7.3		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	3.0		0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	0.61	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.5		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B7 Lab Sample ID: 140-1063-8
 Matrix: Air Lab File ID: JC18P210.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:00
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 04:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D
 Lims ID: 140-1063-A-8 Lab Sample ID: 140-1063-8
 Client ID: PCV-IA2-B7
 Sample Type: Client
 Inject. Date: 19-Mar-2014 04:13:30 ALS Bottle#: 10 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-8
 Misc. Info.: J031814,TO15,,140-0000527-016
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 13:03:37 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:05:07

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	345221	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.539	-0.005	94	1647743	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1373616	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	959823	3.95	
7 Propene	41	3.981	3.971	0.010	92	40912	0.3865	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	61620	0.1802	
9 Chloromethane	52	4.229	4.229	0.0	97	8899	0.2291	
17 Ethanol	31	5.122	5.116	0.006	95	582144	21.0	
19 2-Methylbutane	43	5.407	5.407	0.0	92	63810	0.4352	
20 Trichlorofluoromethane	101	5.644	5.644	0.0	87	26236	0.0873	
23 Acetone	58	5.767	5.767	0.0	99	90633	1.85	
24 Isopropyl alcohol	45	5.859	5.848	0.011	91	122645	0.9465	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.580	6.580	0.0	61	5459	0.0262	
31 Methylene Chloride	84	6.752	6.757	-0.005	96	134670	1.46	
35 2-Methylpentane	43	7.623	7.623	0.0	91	26530	0.0996	
39 2-Butanone (MEK)	72	8.597	8.586	0.011	95	9854	0.3015	
40 Hexane	56	8.635	8.635	0.0	75	10723	0.1155	
43 Chloroform	83	9.388	9.393	-0.005	53	12779	0.0635	
48 Benzene	78	11.023	11.023	0.0	94	43857	0.1551	
49 Cyclohexane	69	11.023	11.034	-0.011	32	1601	0.0287	
50 Carbon tetrachloride	117	11.050	11.050	0.0	85	6447	0.0276	
53 Isooctane	57	11.755	11.760	-0.005	90	28058	0.0581	
54 n-Heptane	71	12.115	12.120	-0.005	79	7682	0.0768	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	95	41691	0.2414	
65 Toluene	91	14.251	14.256	-0.005	93	142893	0.5608	
73 Tetrachloroethene	129	15.386	15.386	0.0	85	10531	0.0887	
76 Ethylbenzene	91	16.526	16.532	-0.006	89	42824	0.1521	
78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	99	153277	0.6749	
80 Styrene	104	17.150	17.150	0.0	70	8954	0.0574	
82 o-Xylene	91	17.210	17.215	-0.005	96	62836	0.2729	
88 4-Ethyltoluene	105	18.458	18.447	0.011	41	19479	0.0637	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	81	16330	0.0612	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Worklist Smp#: 16

Client ID: PCV-IA2-B7

Purge Vol: 500.000 mL

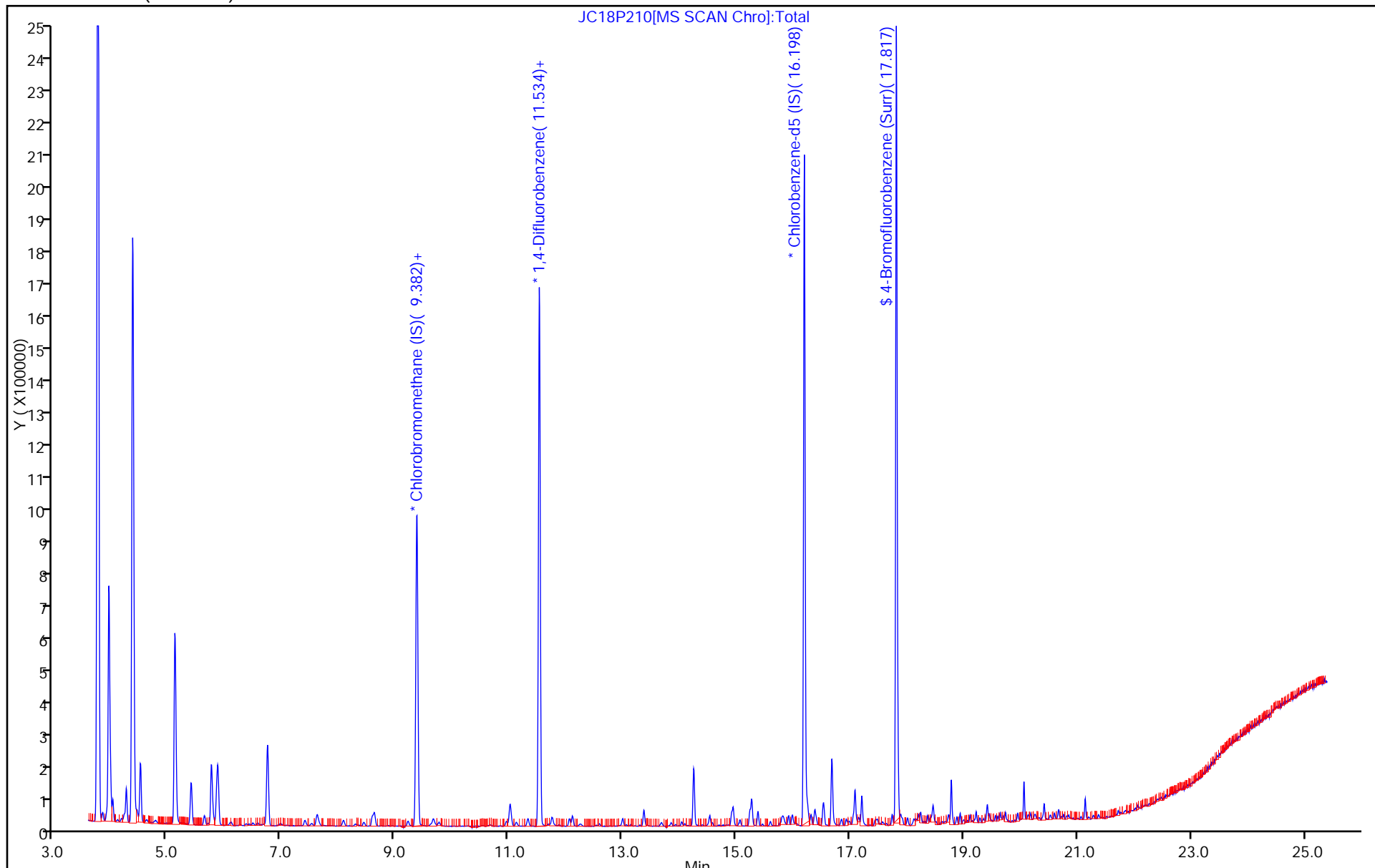
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

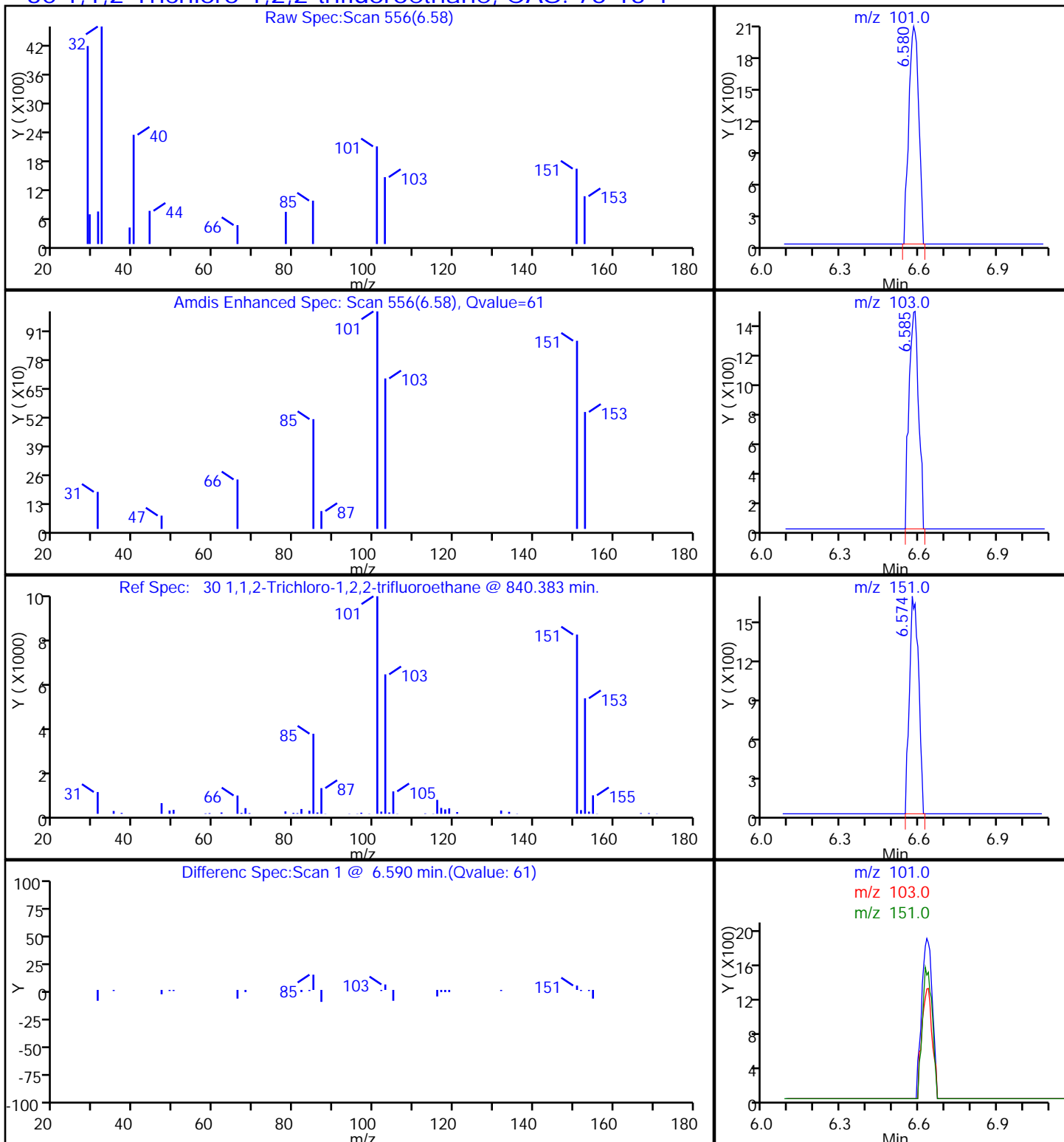
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

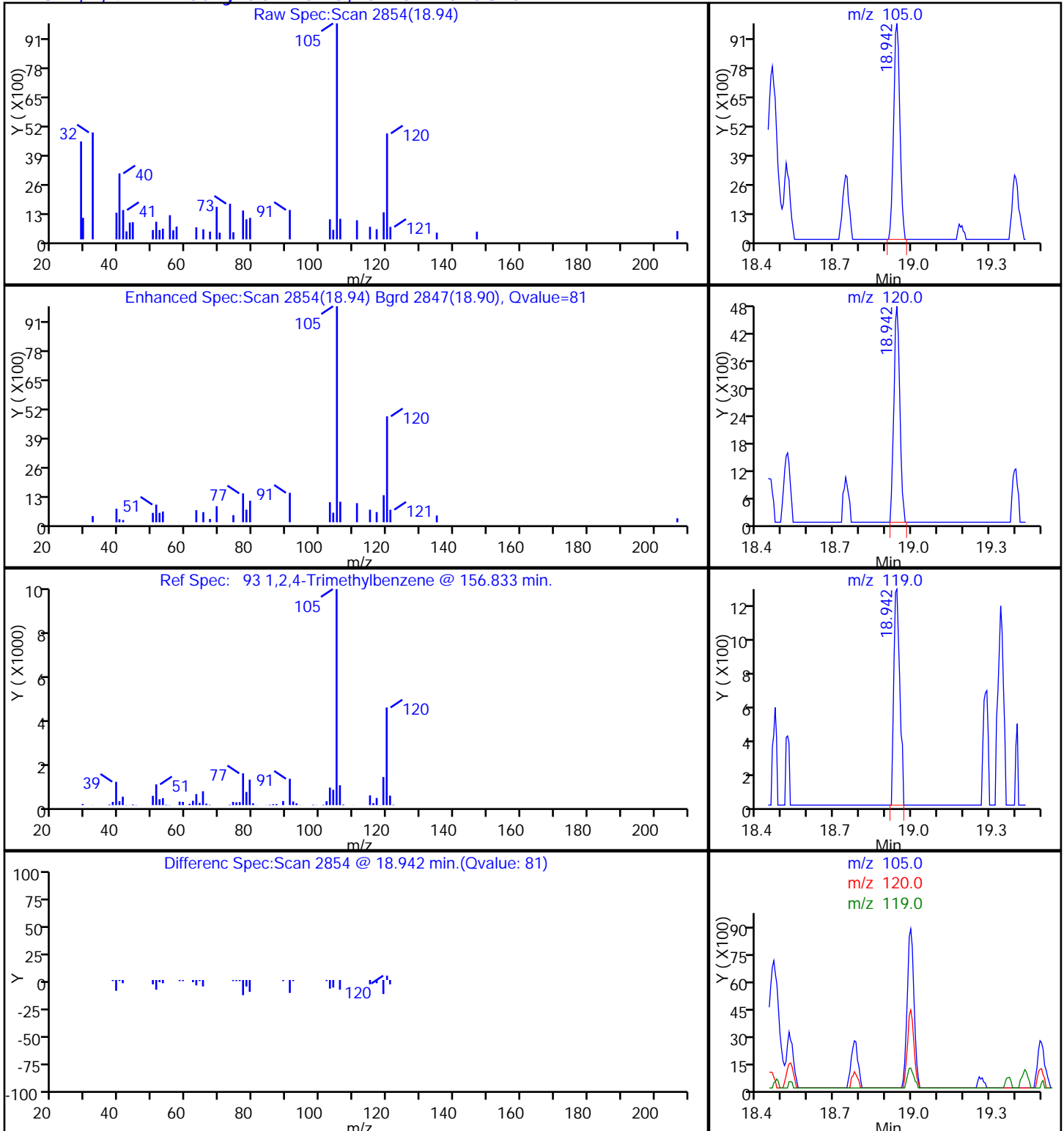
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

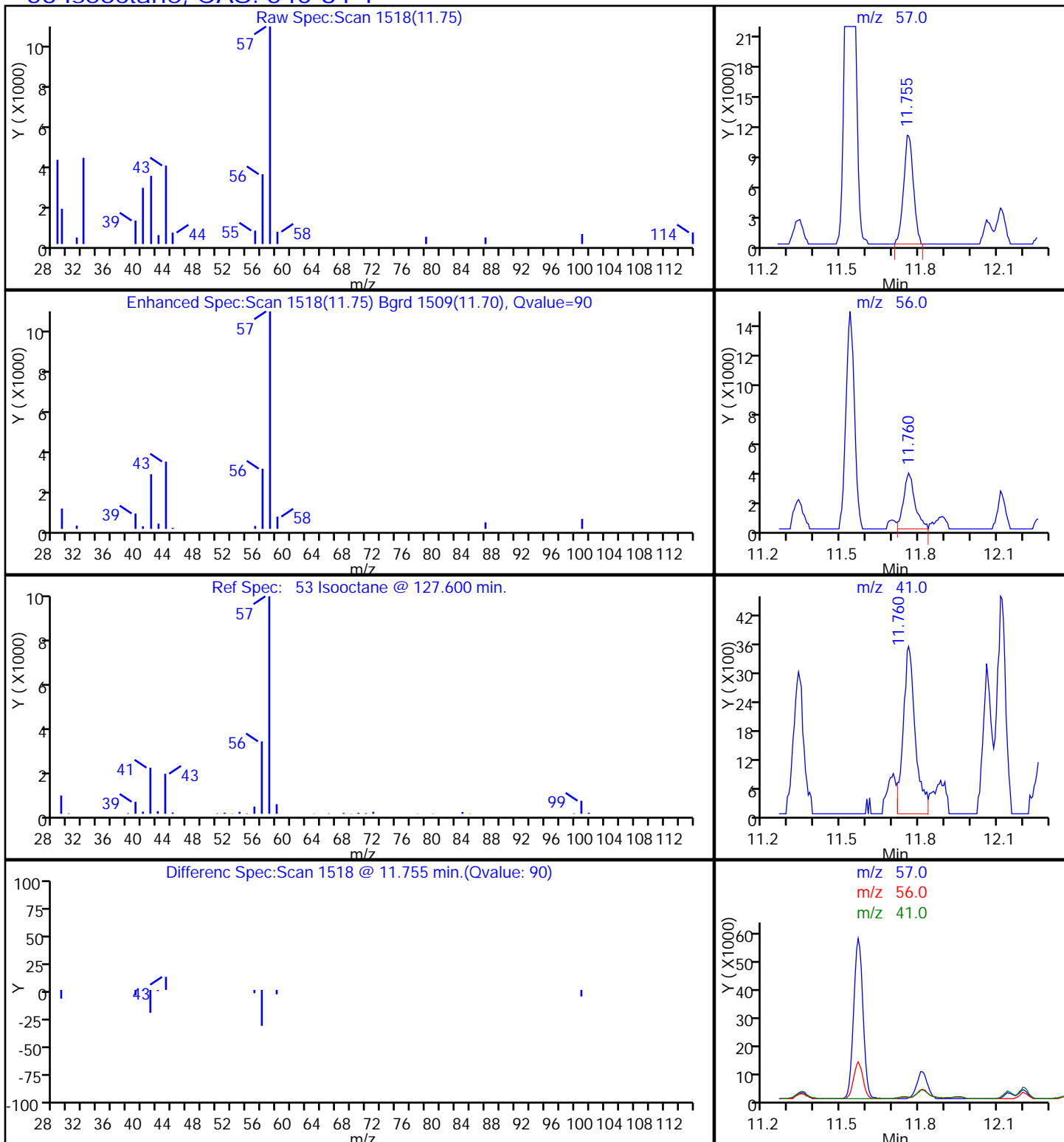
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

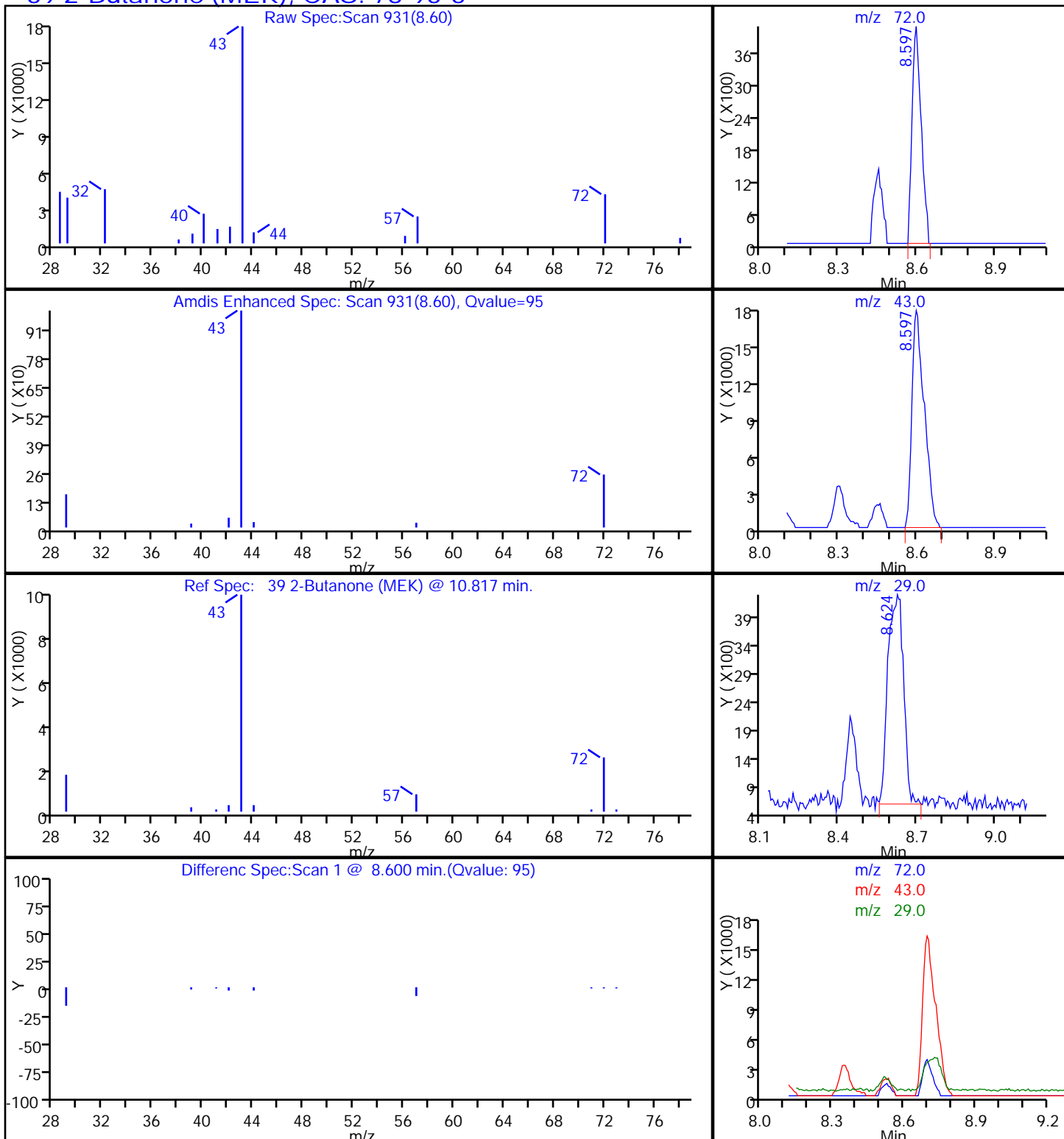
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

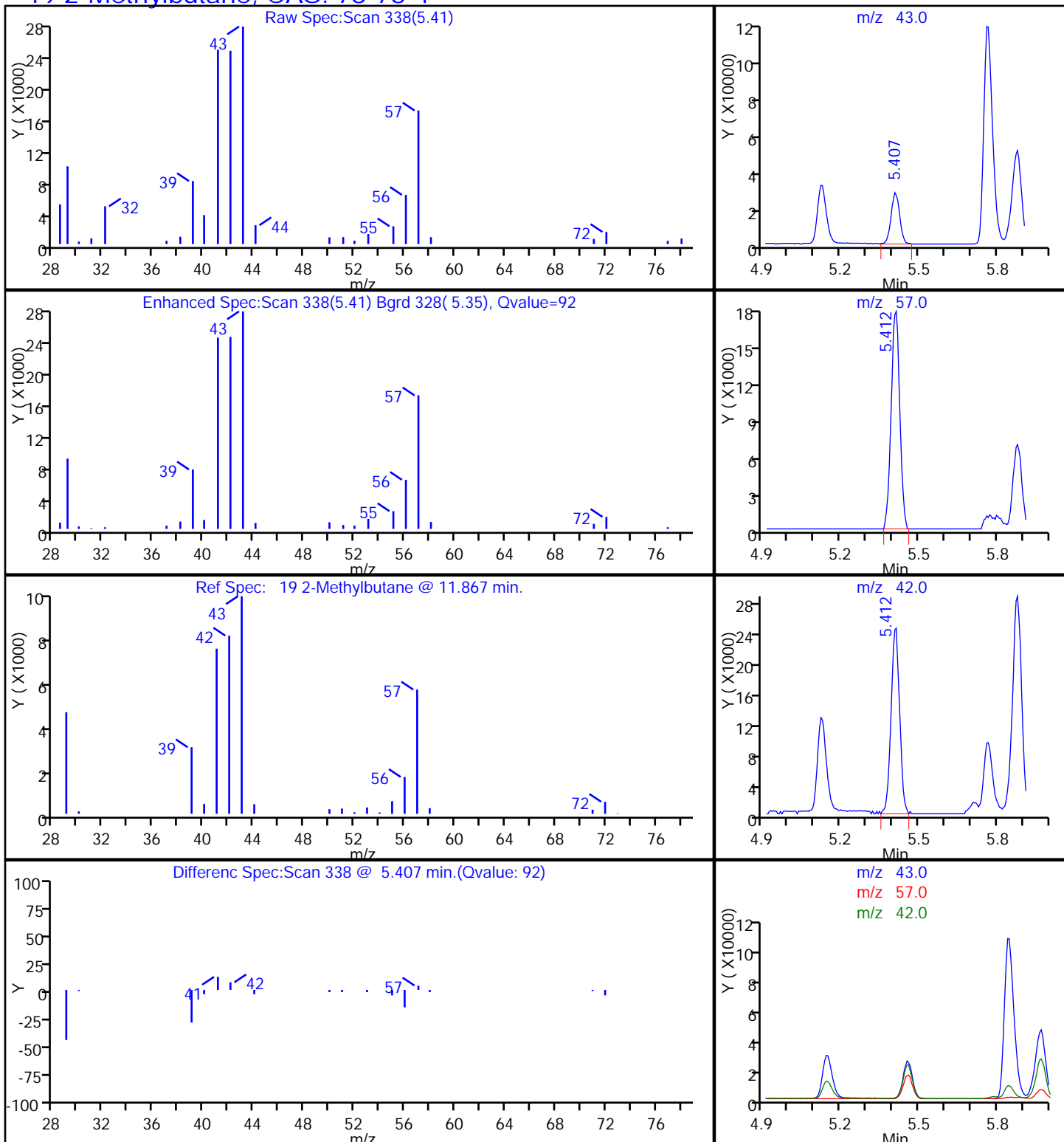
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

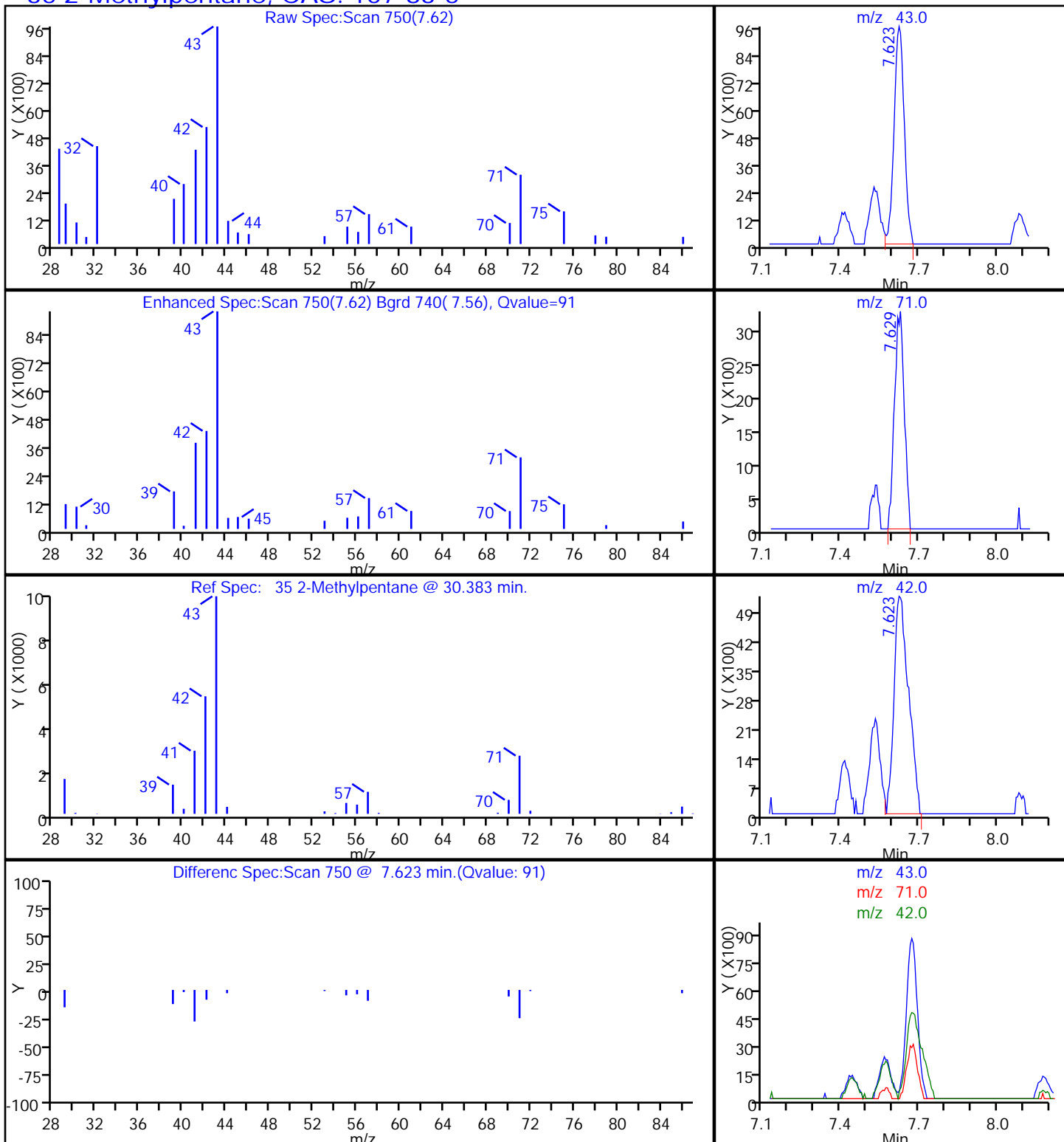
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

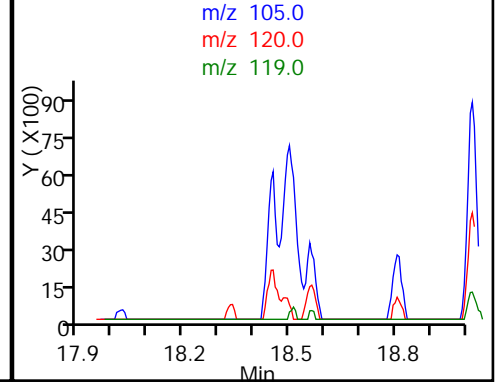
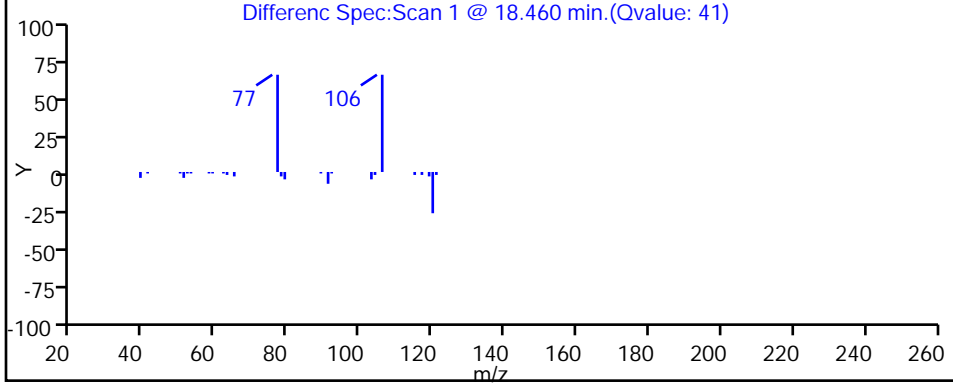
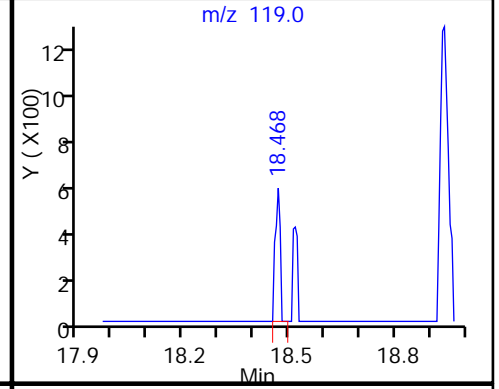
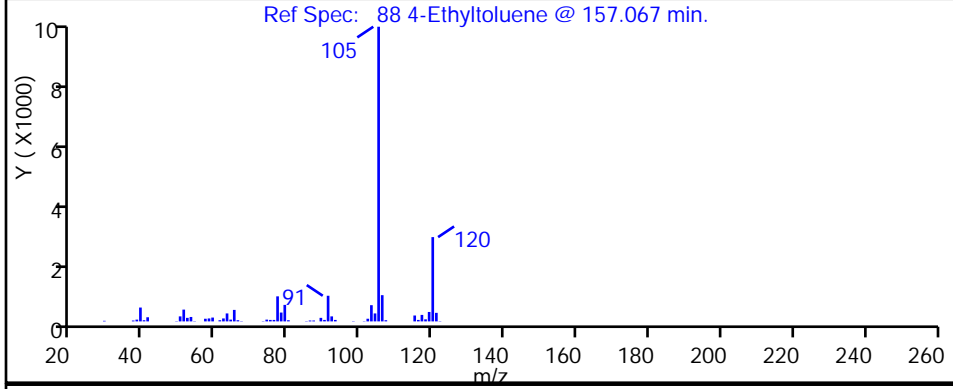
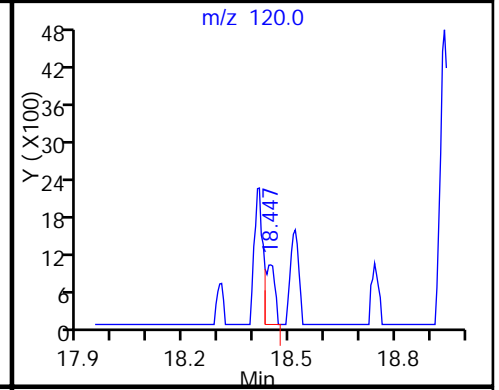
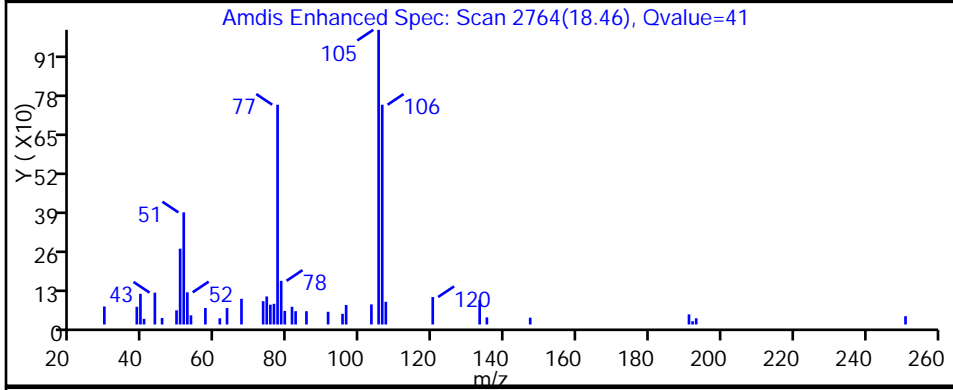
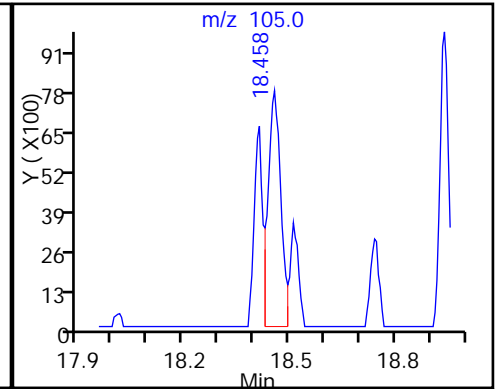
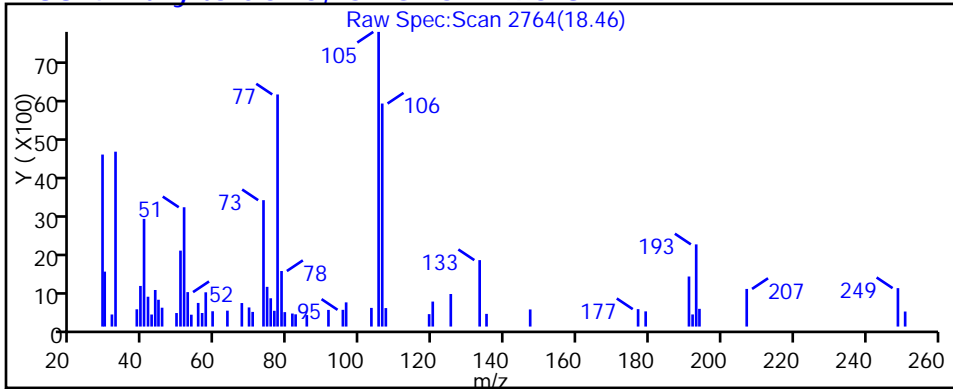
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

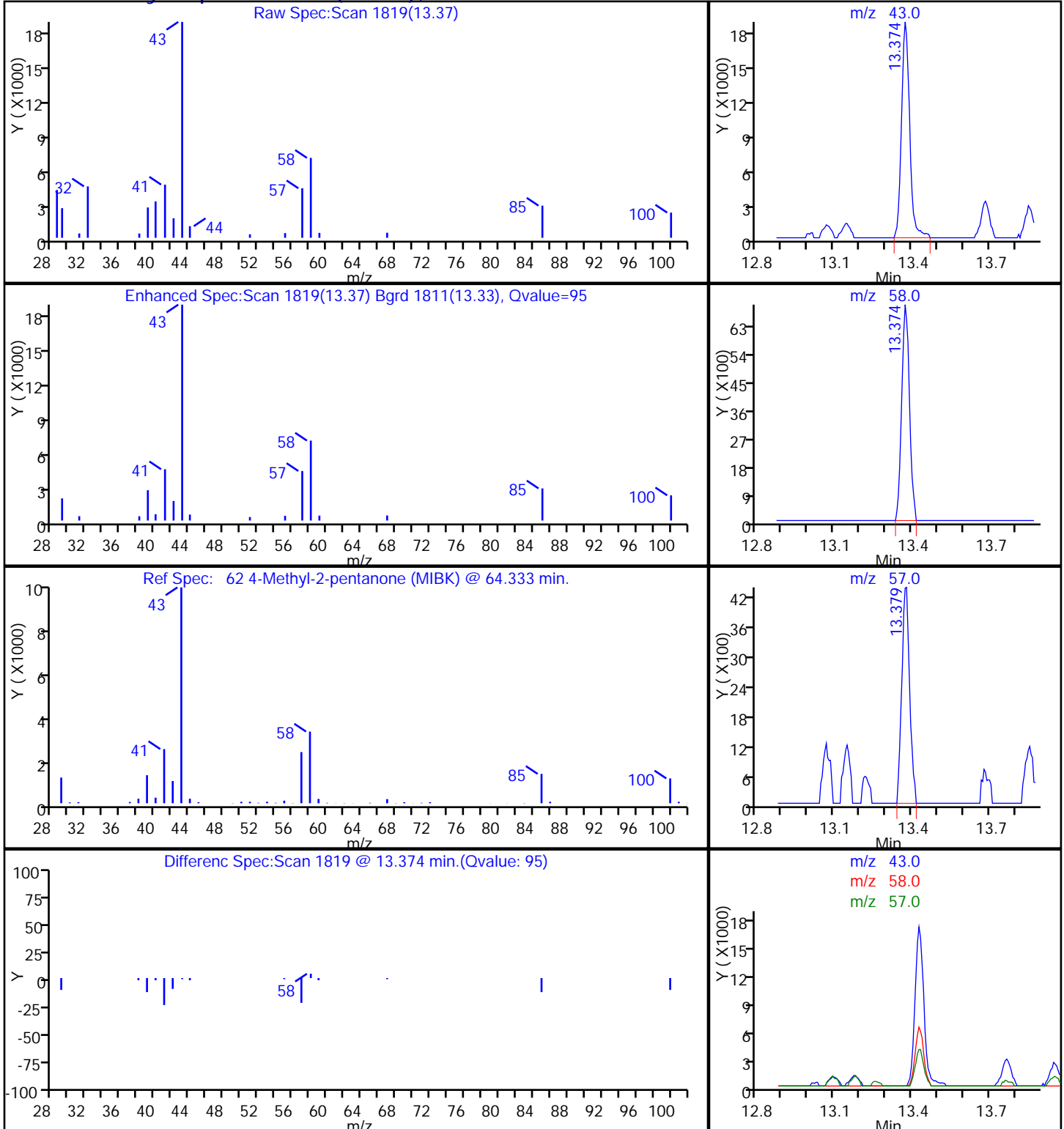
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

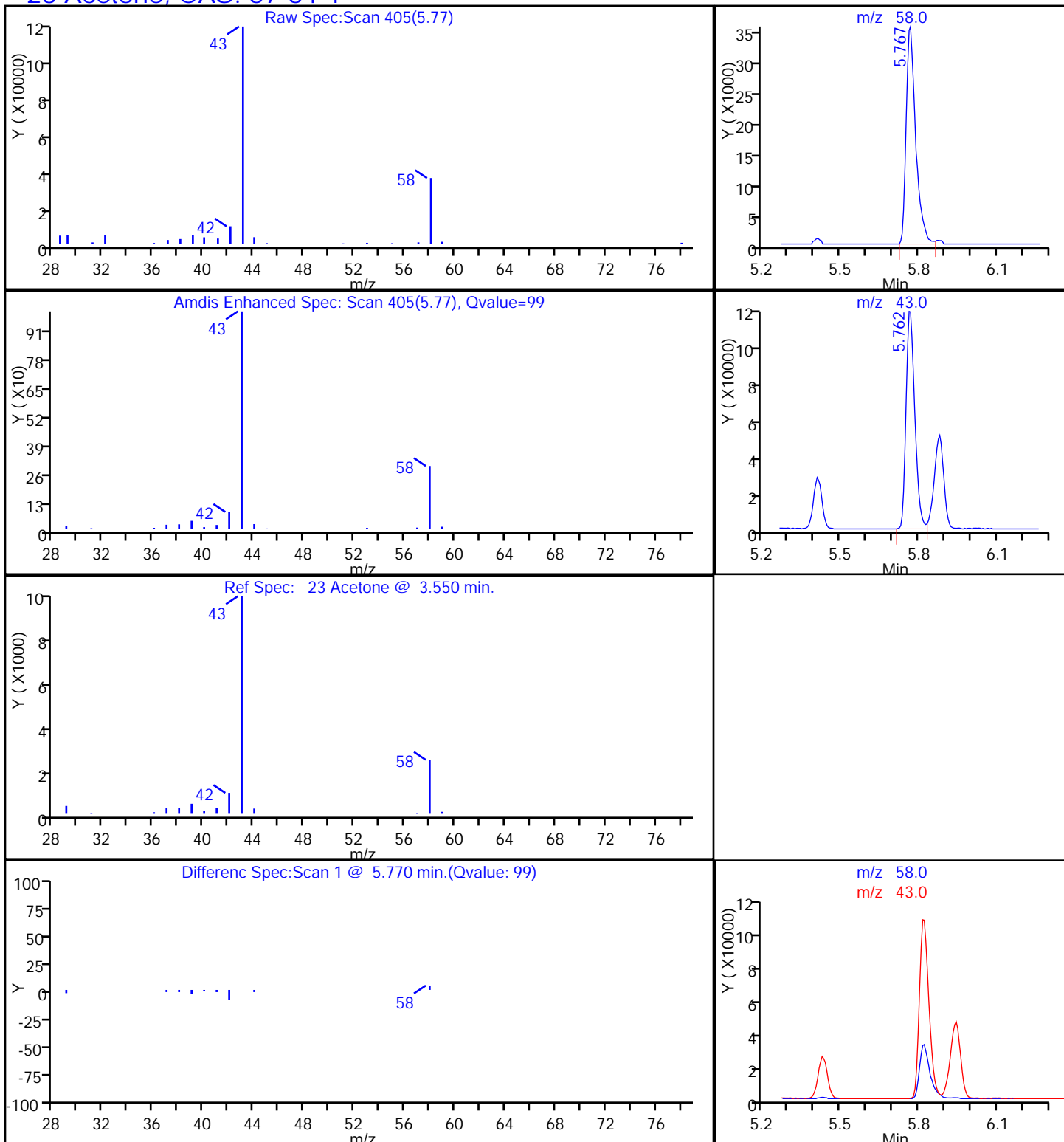
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

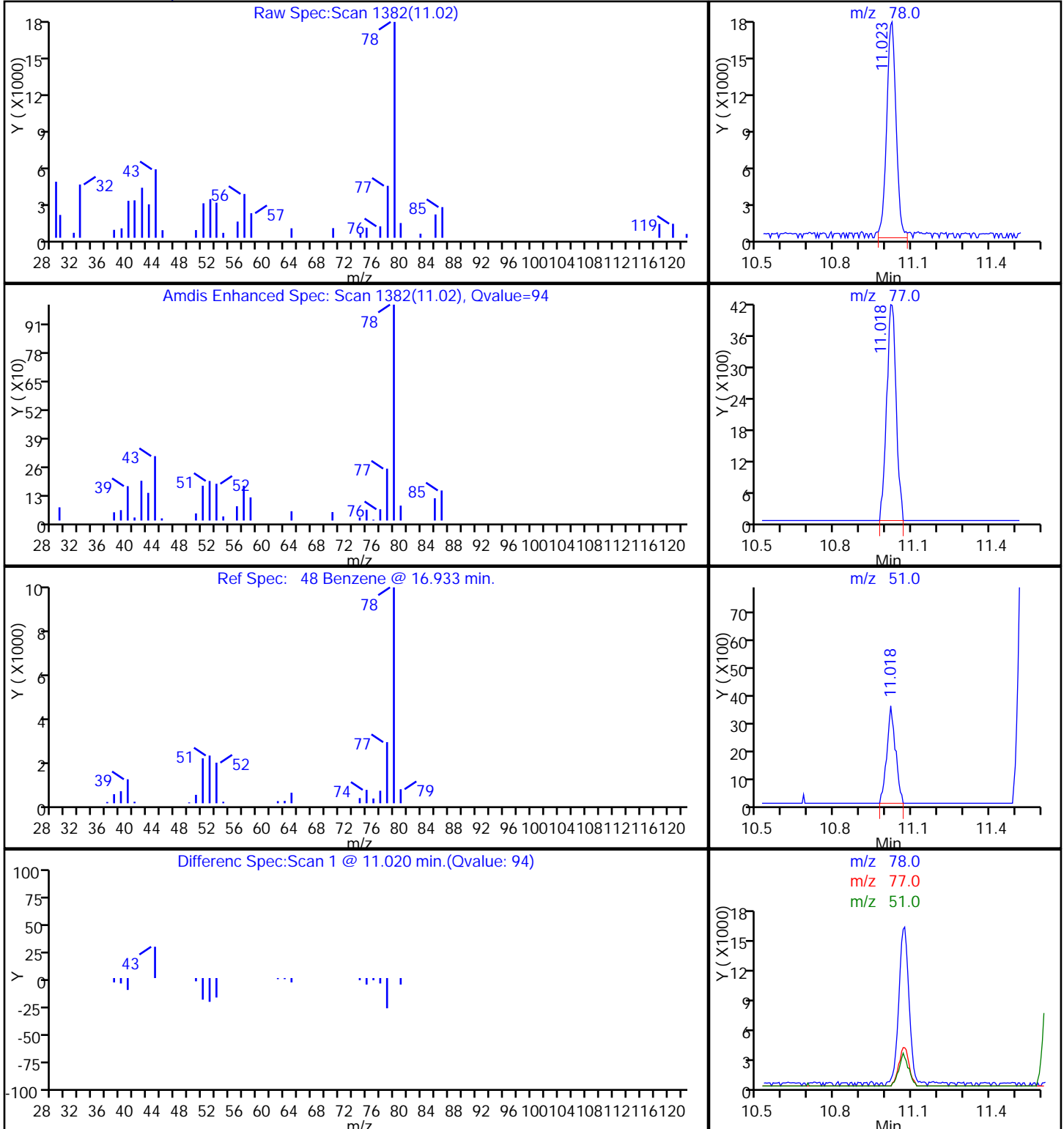
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

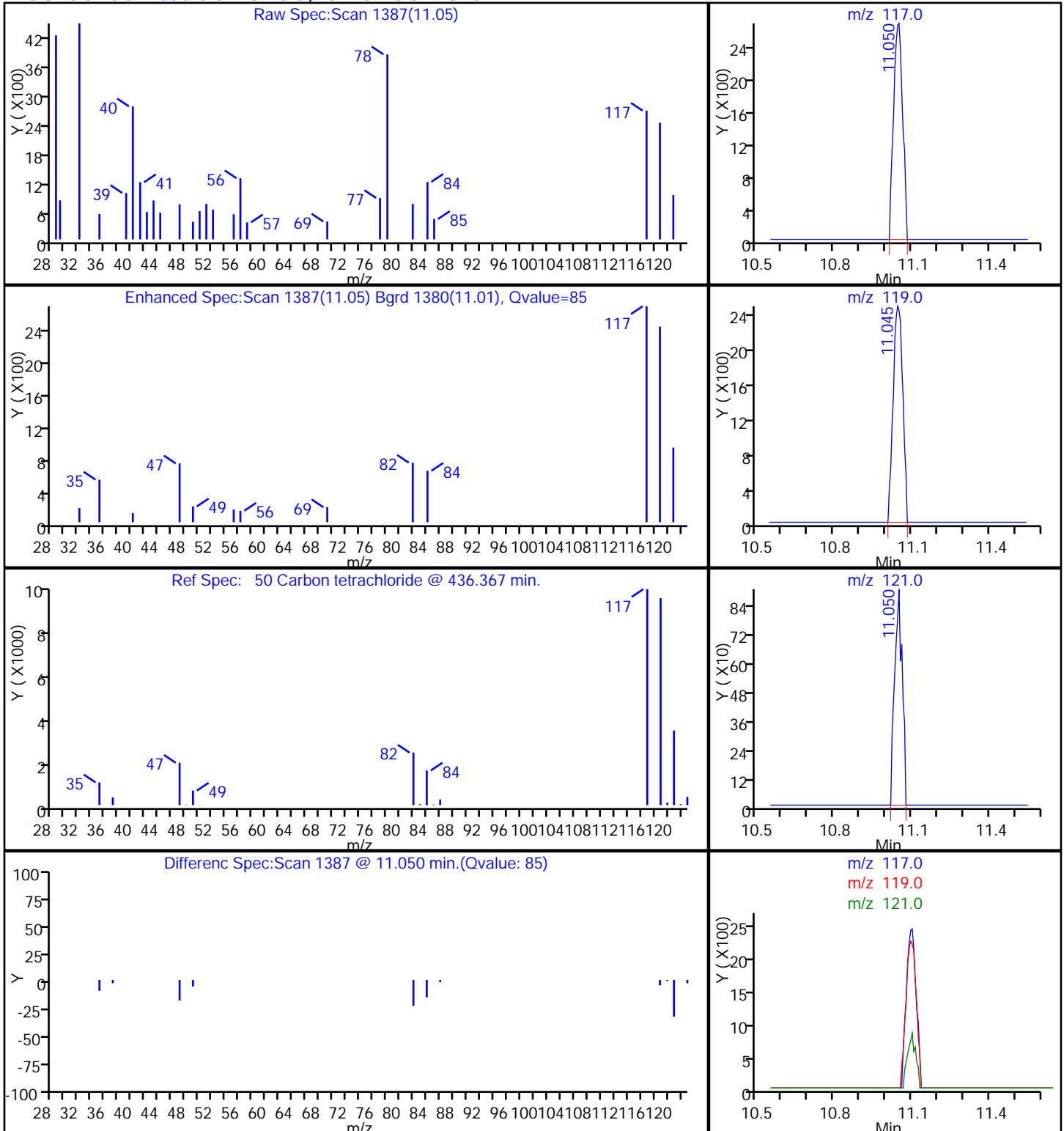
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

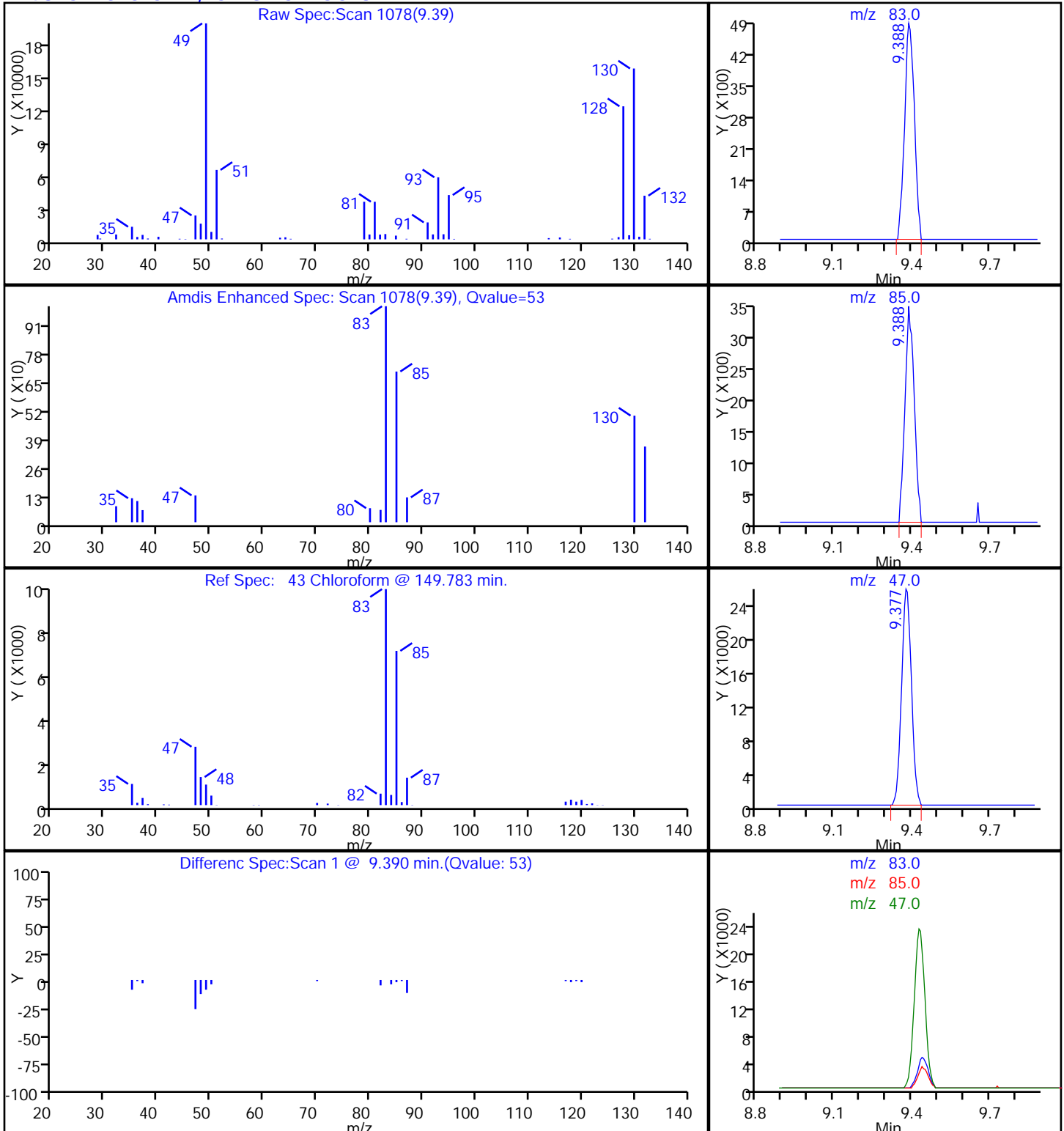
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

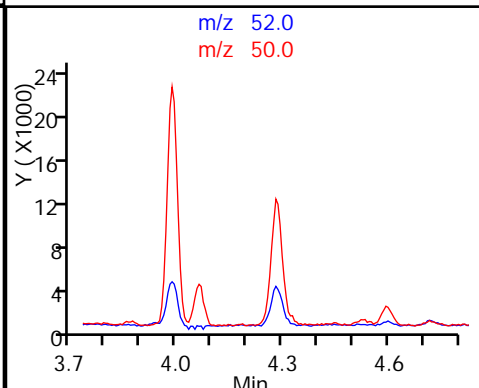
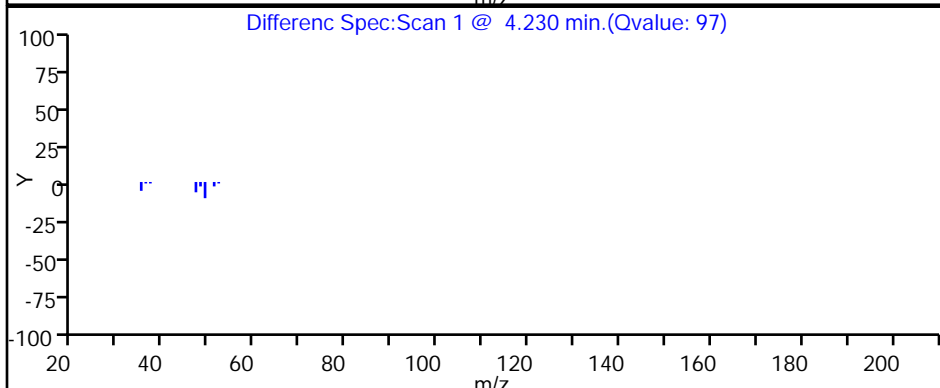
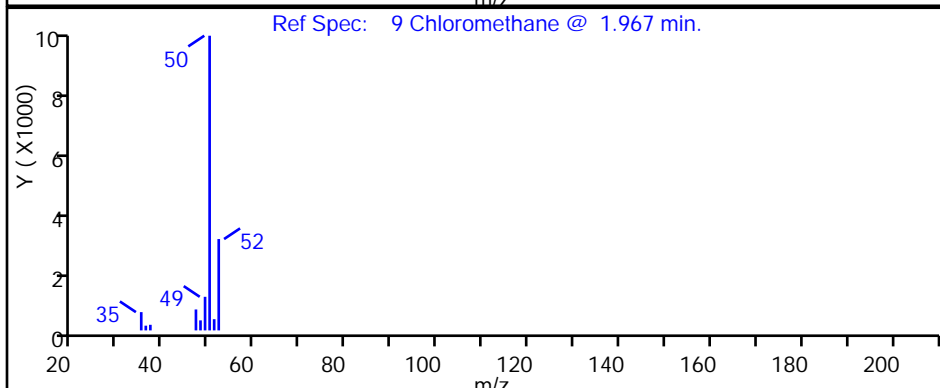
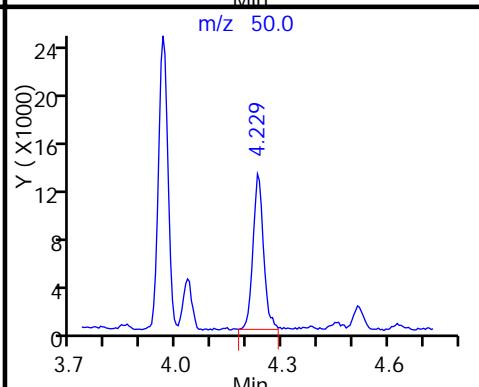
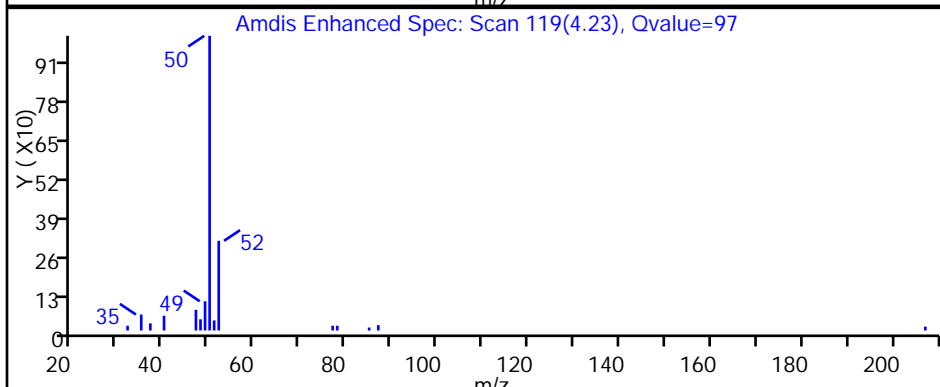
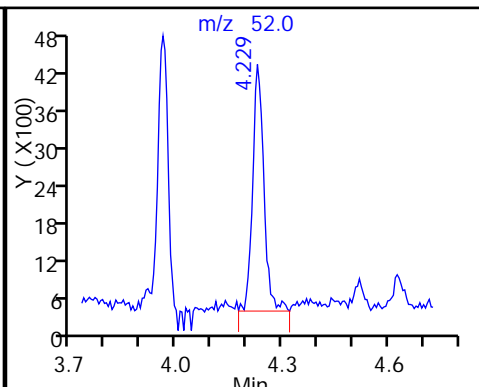
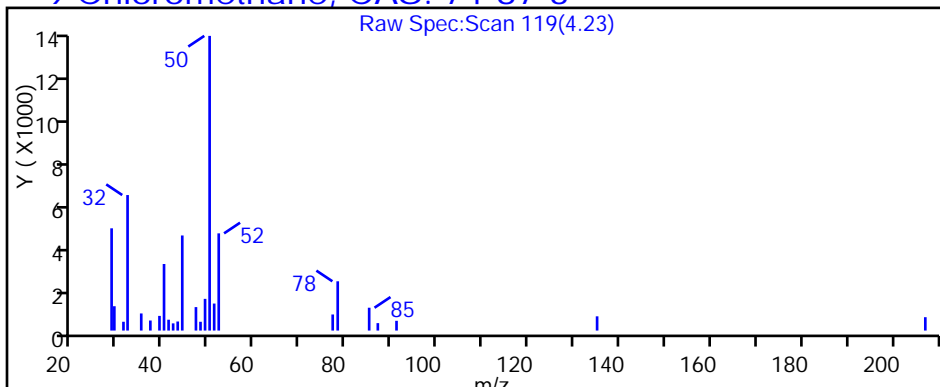
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

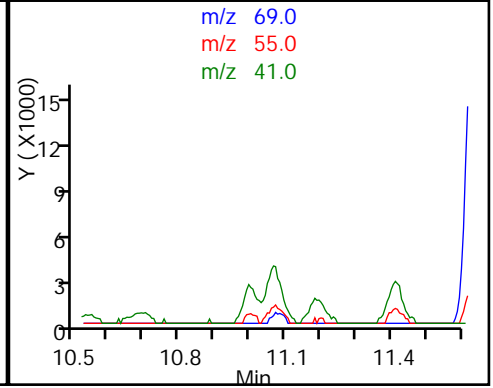
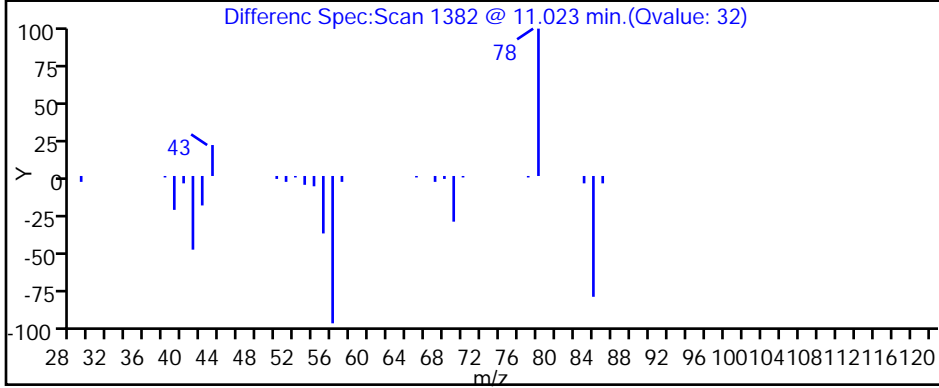
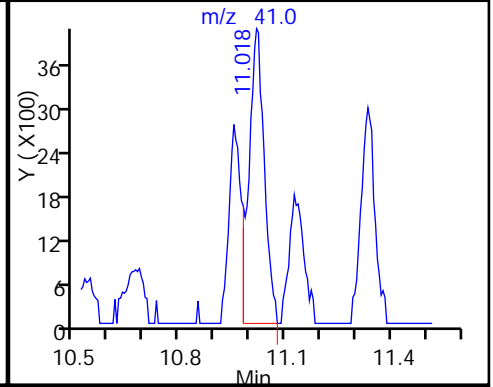
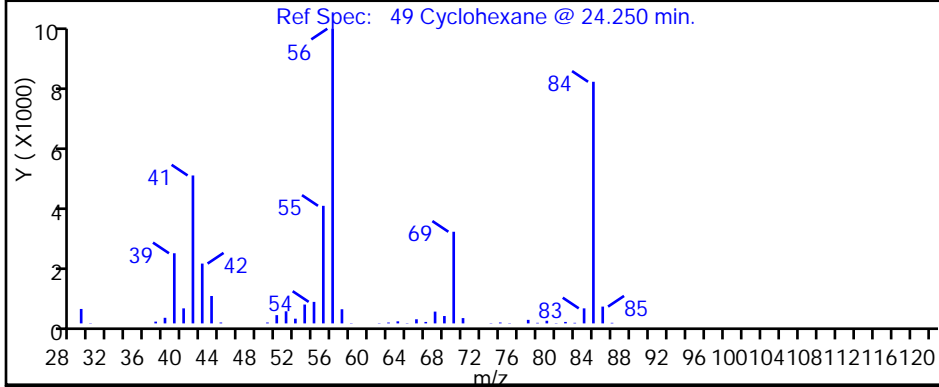
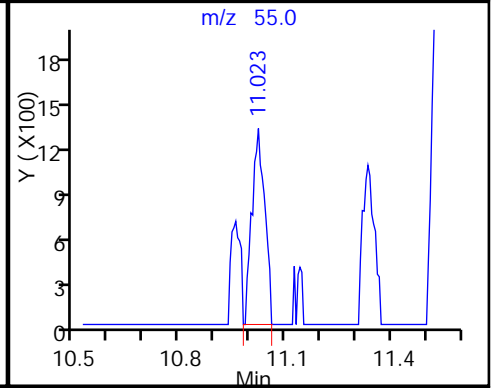
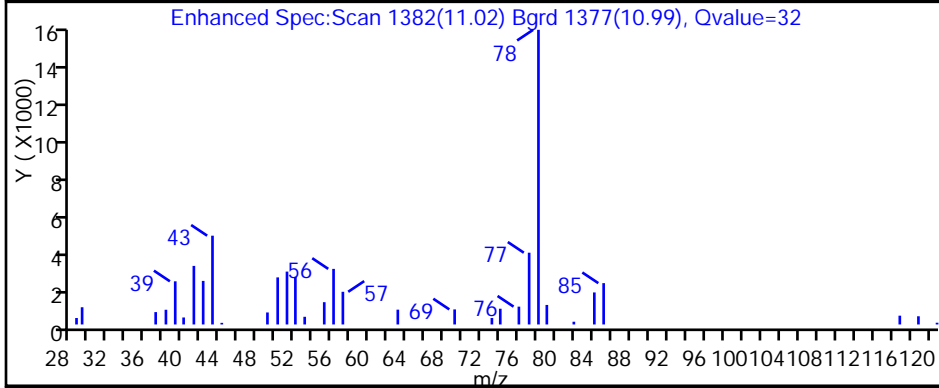
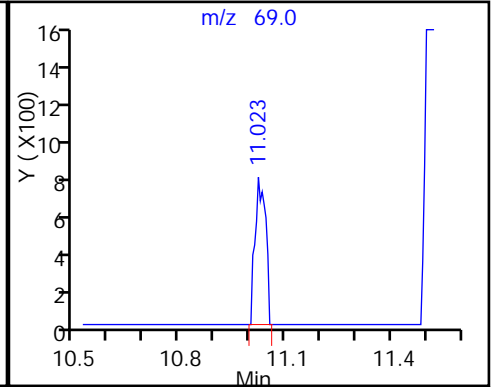
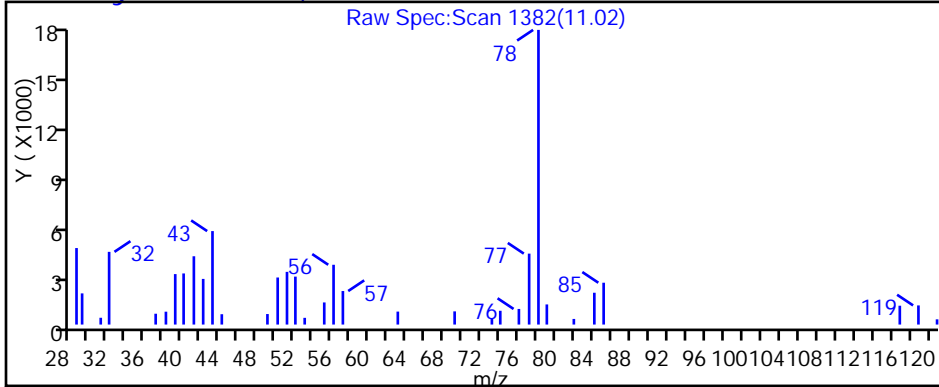
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

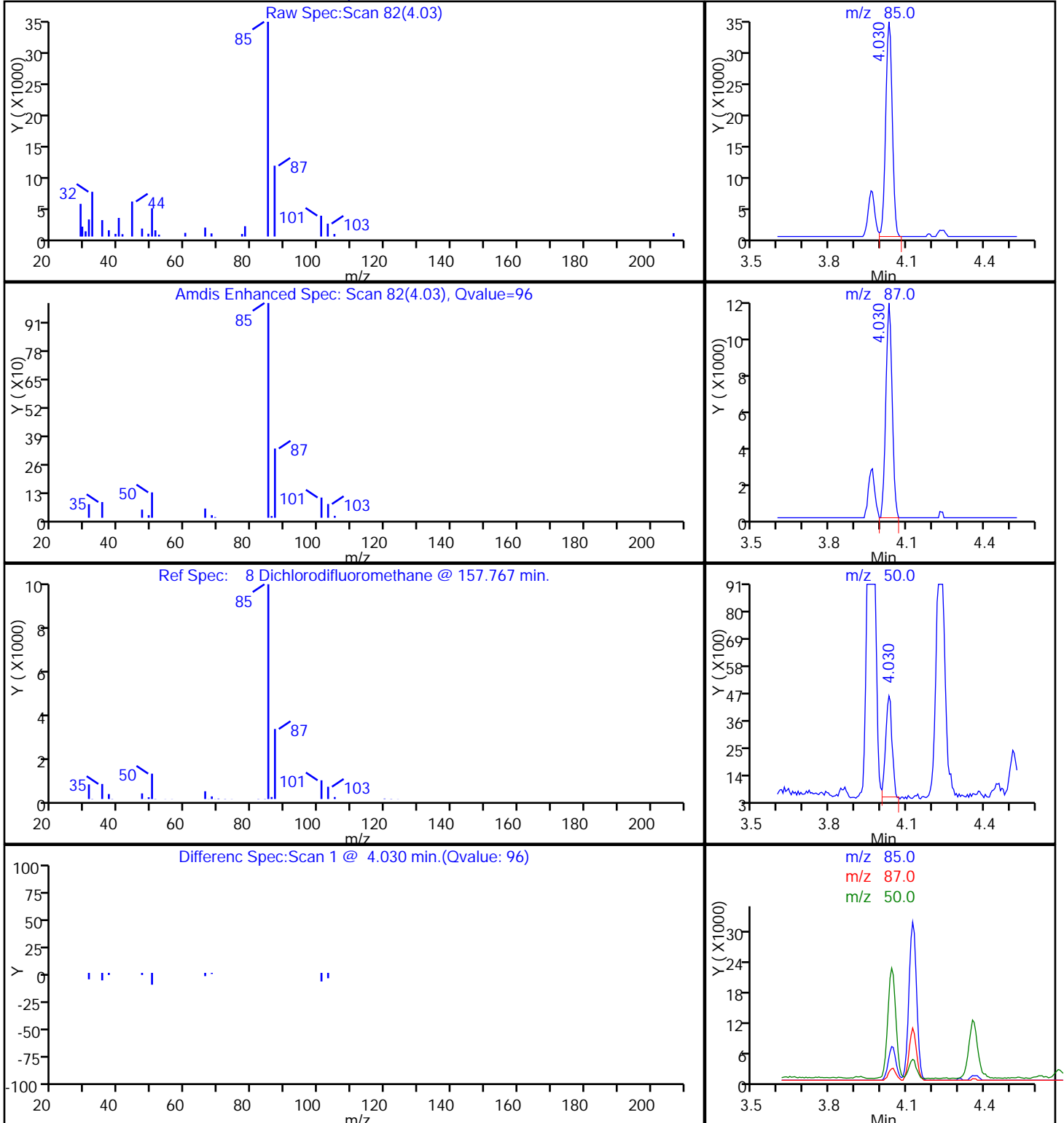
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

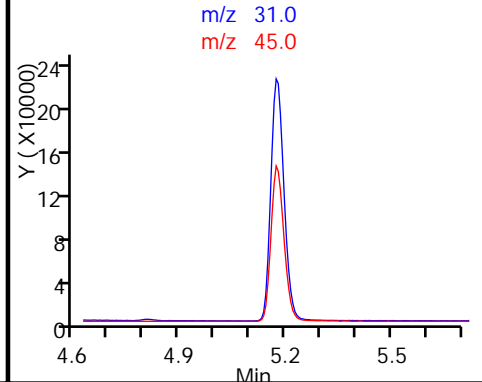
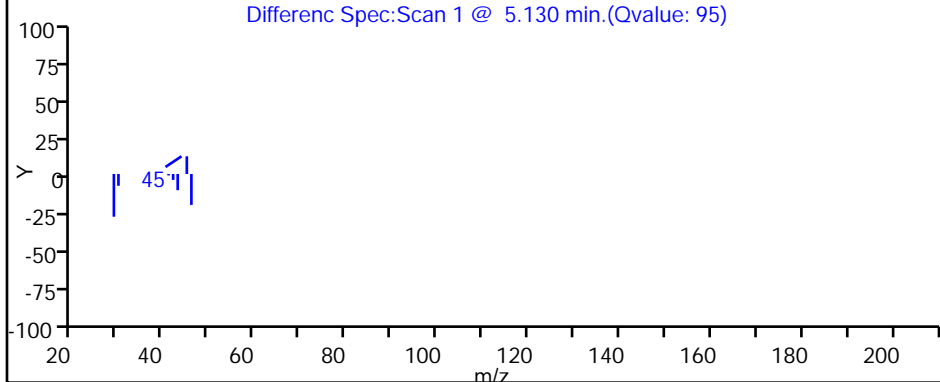
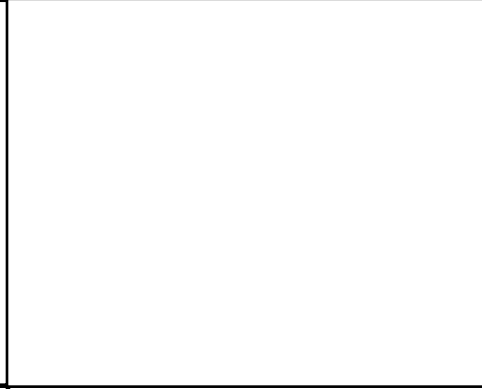
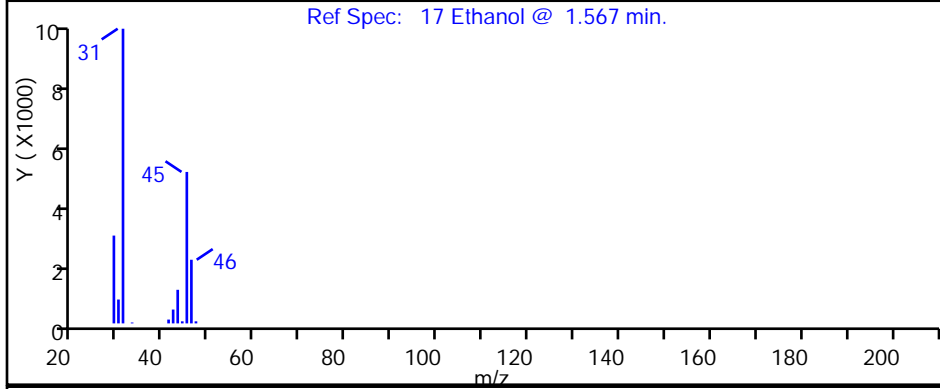
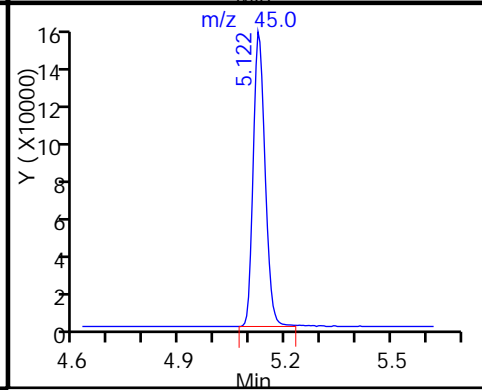
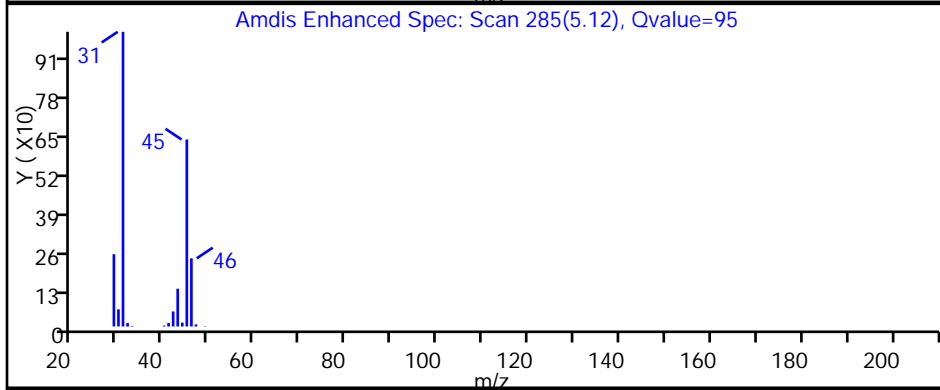
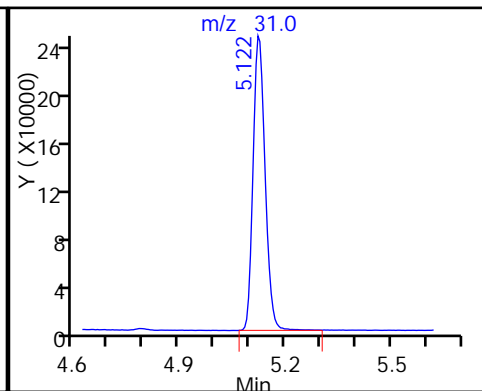
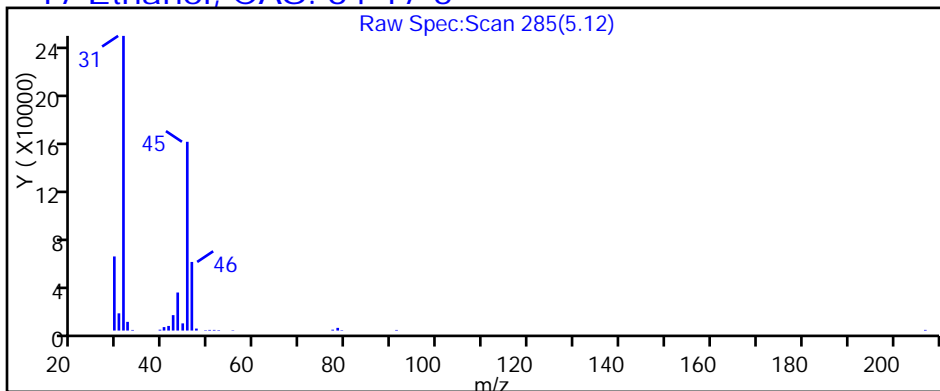
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

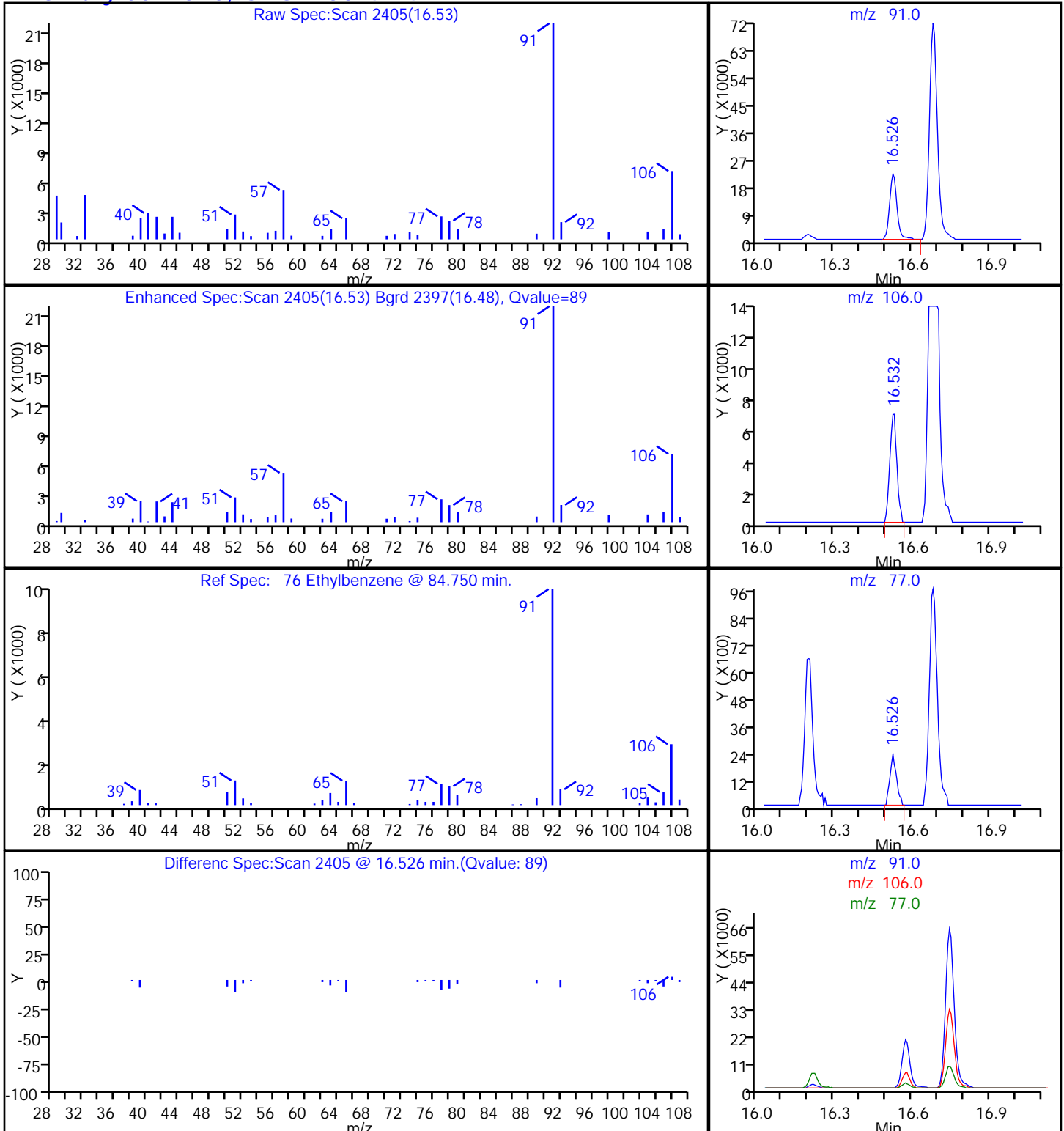
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

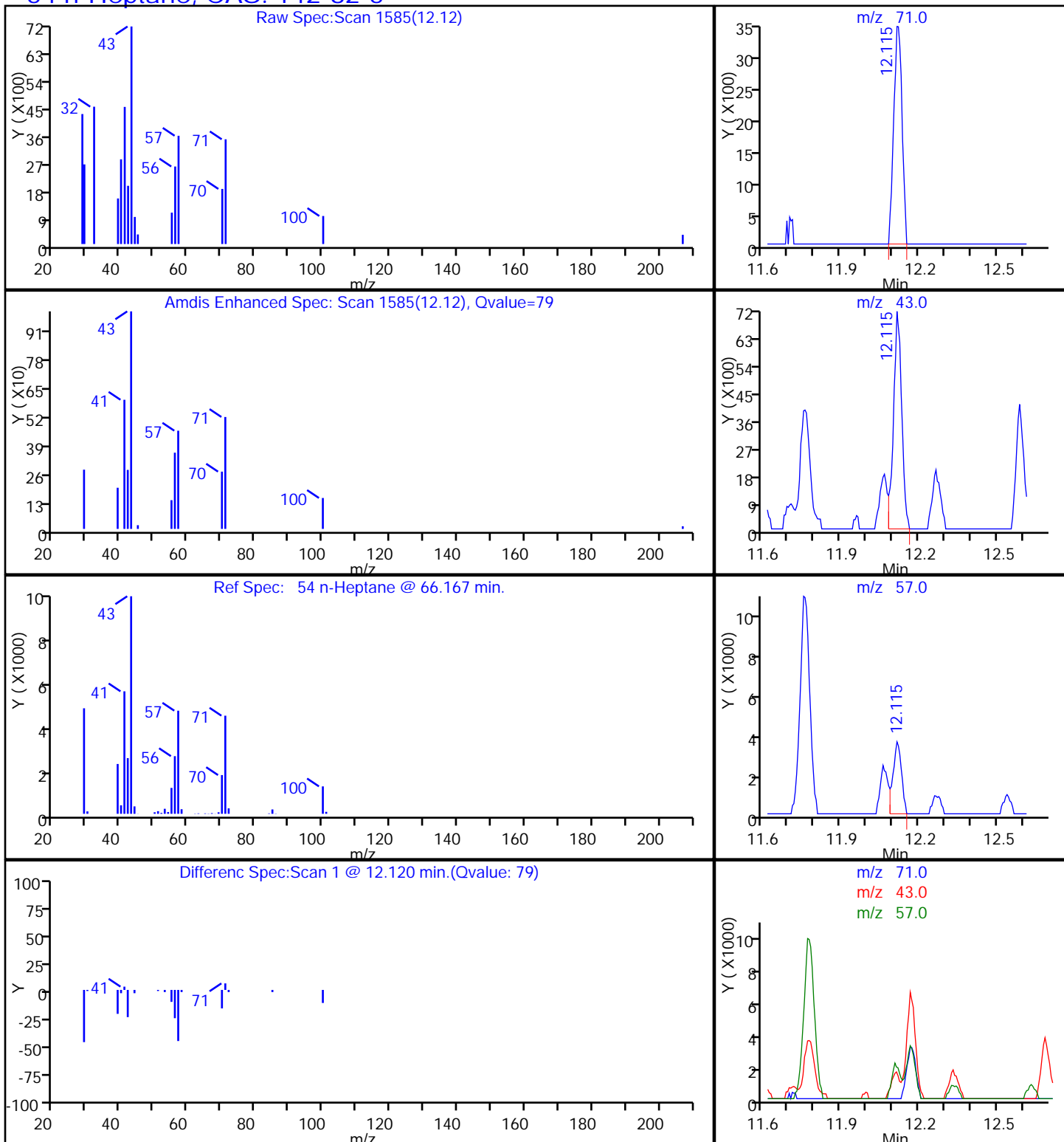
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

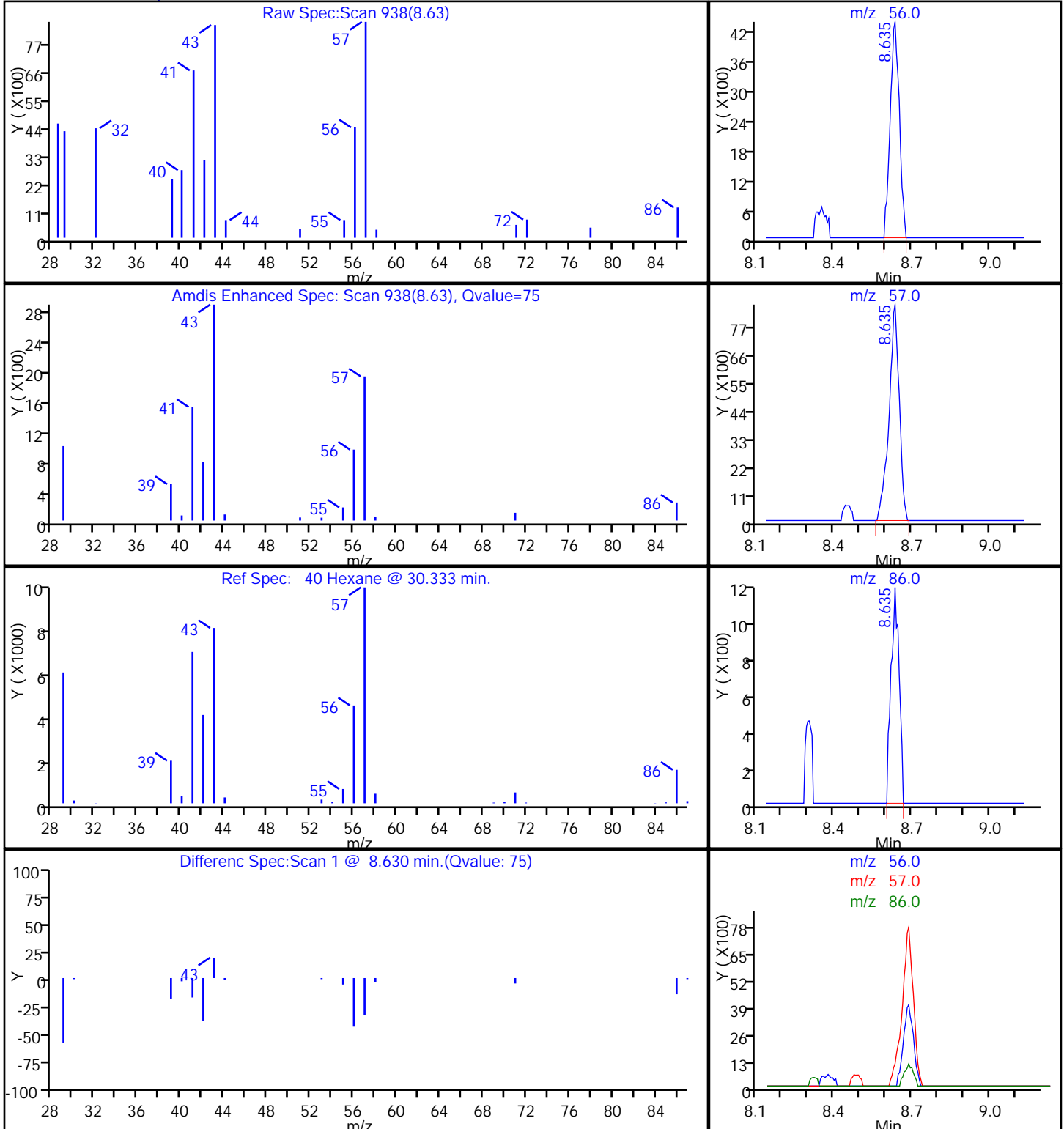
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

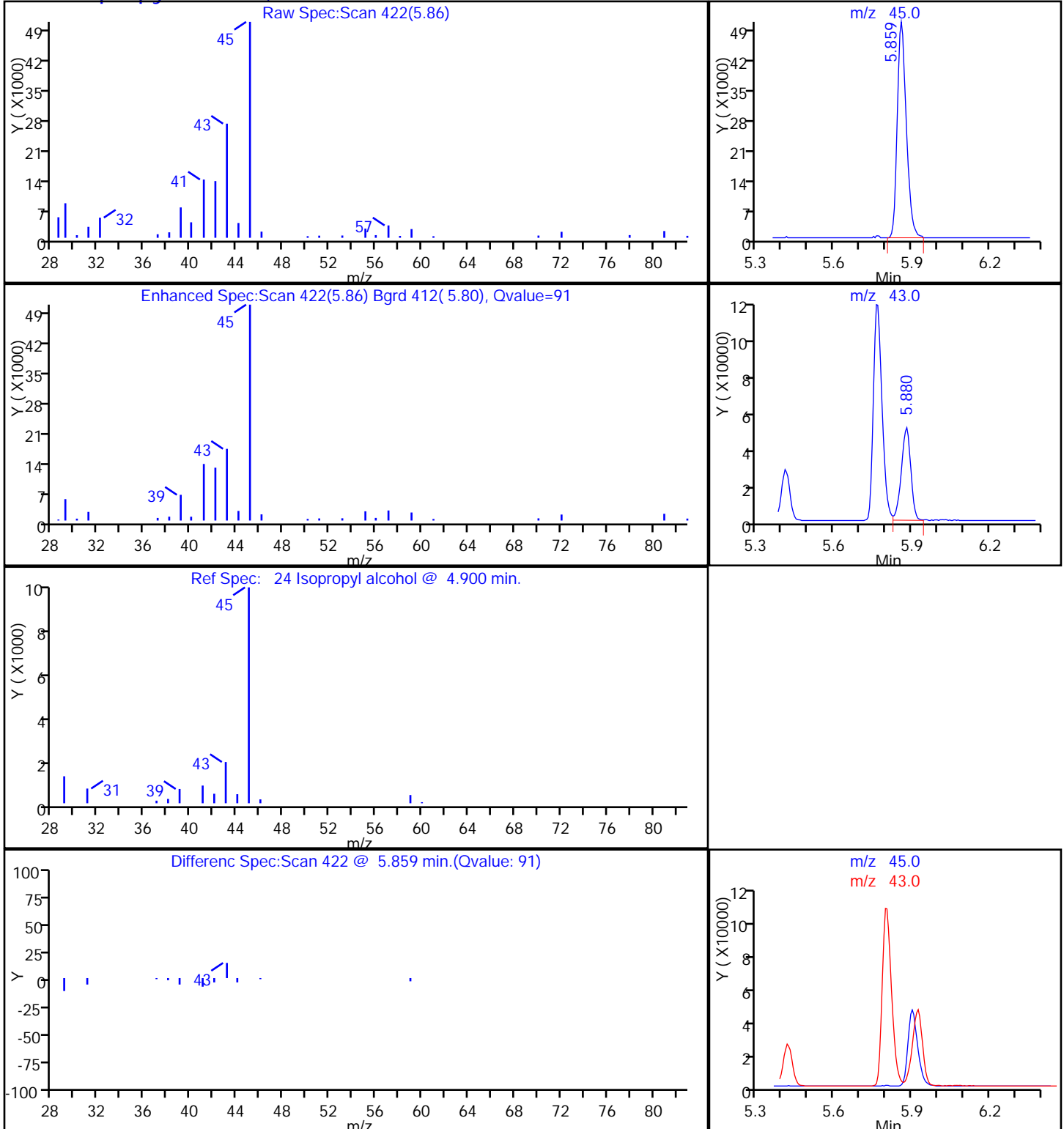
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

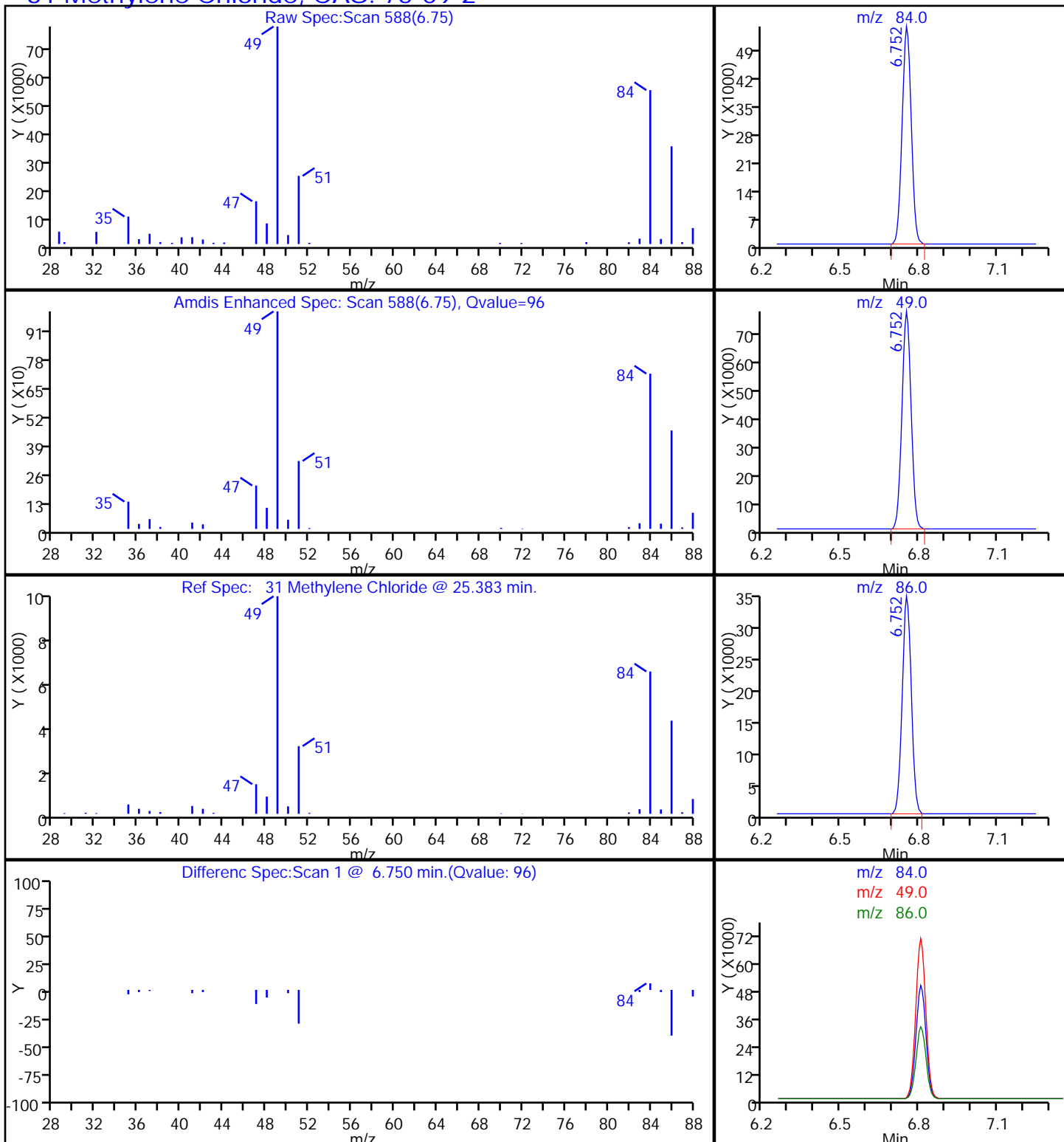
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

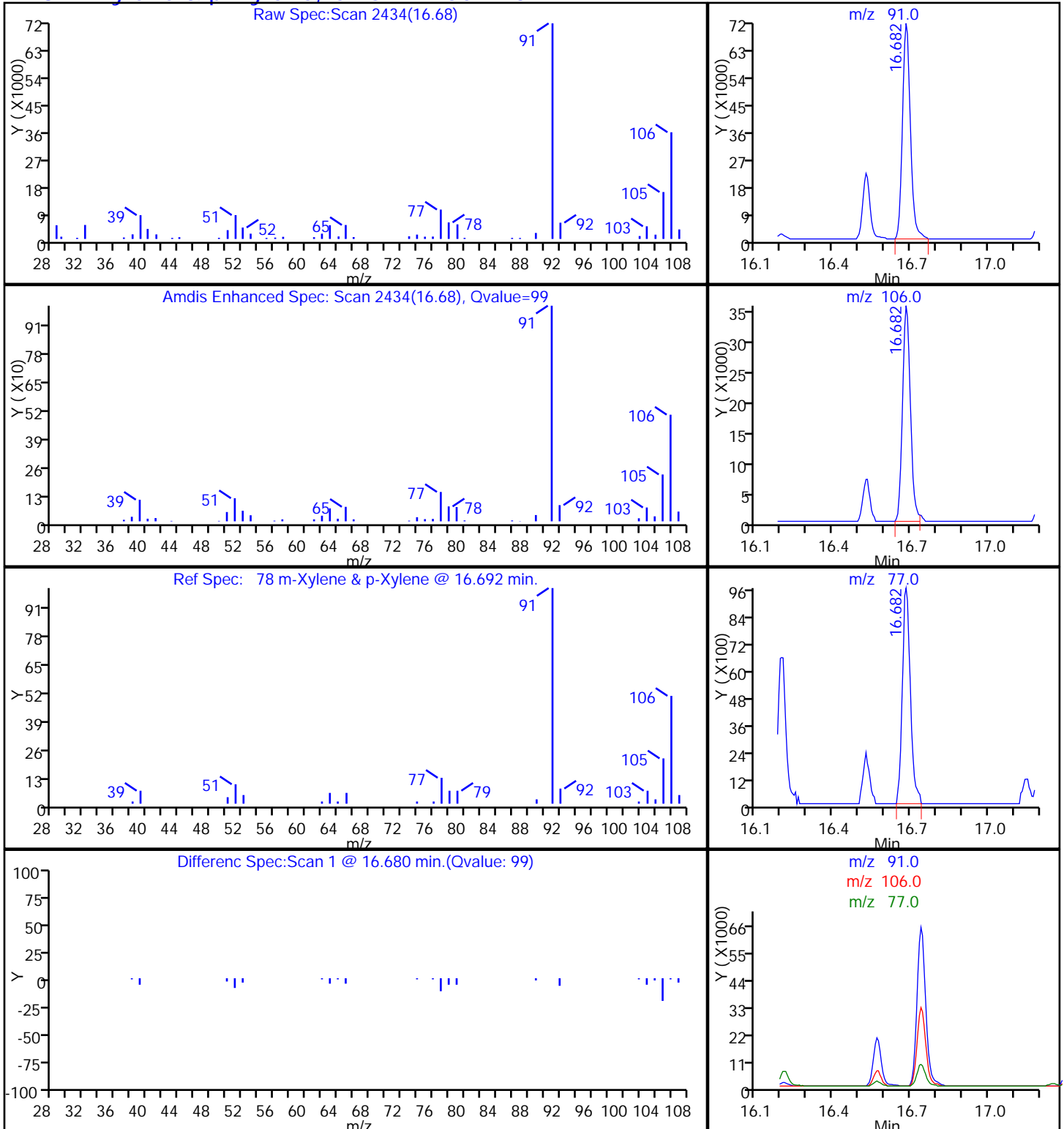
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

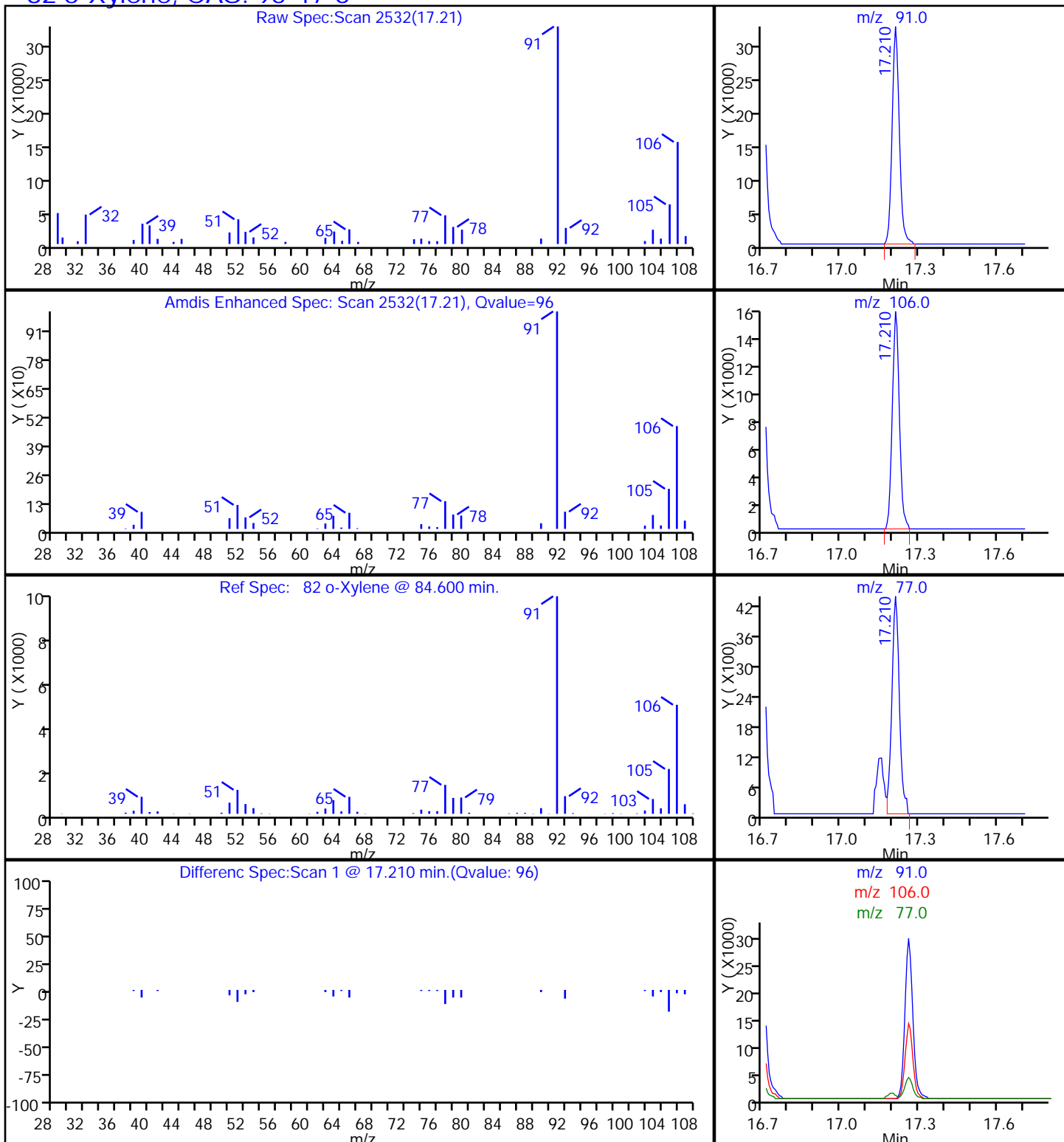
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

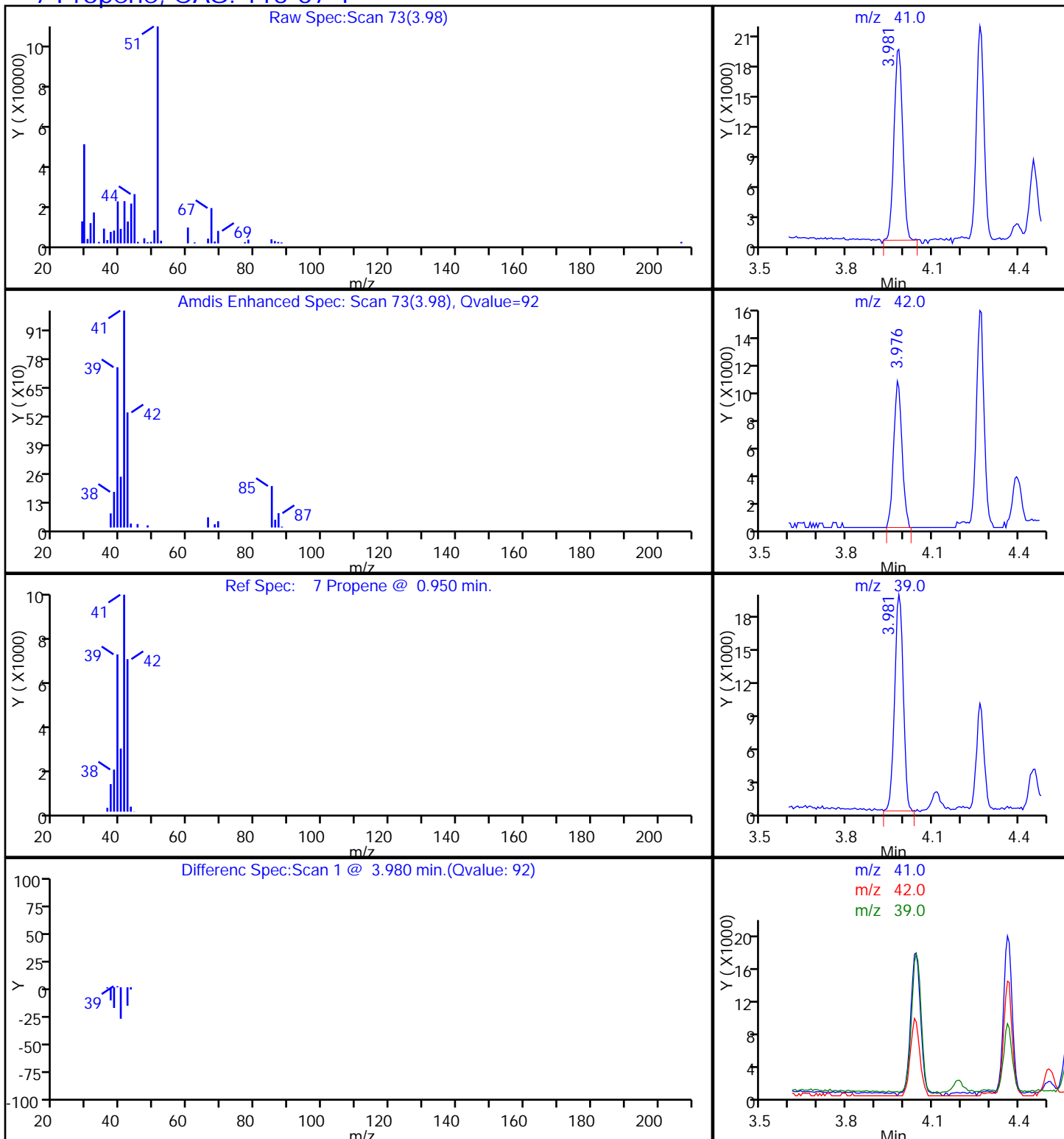
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

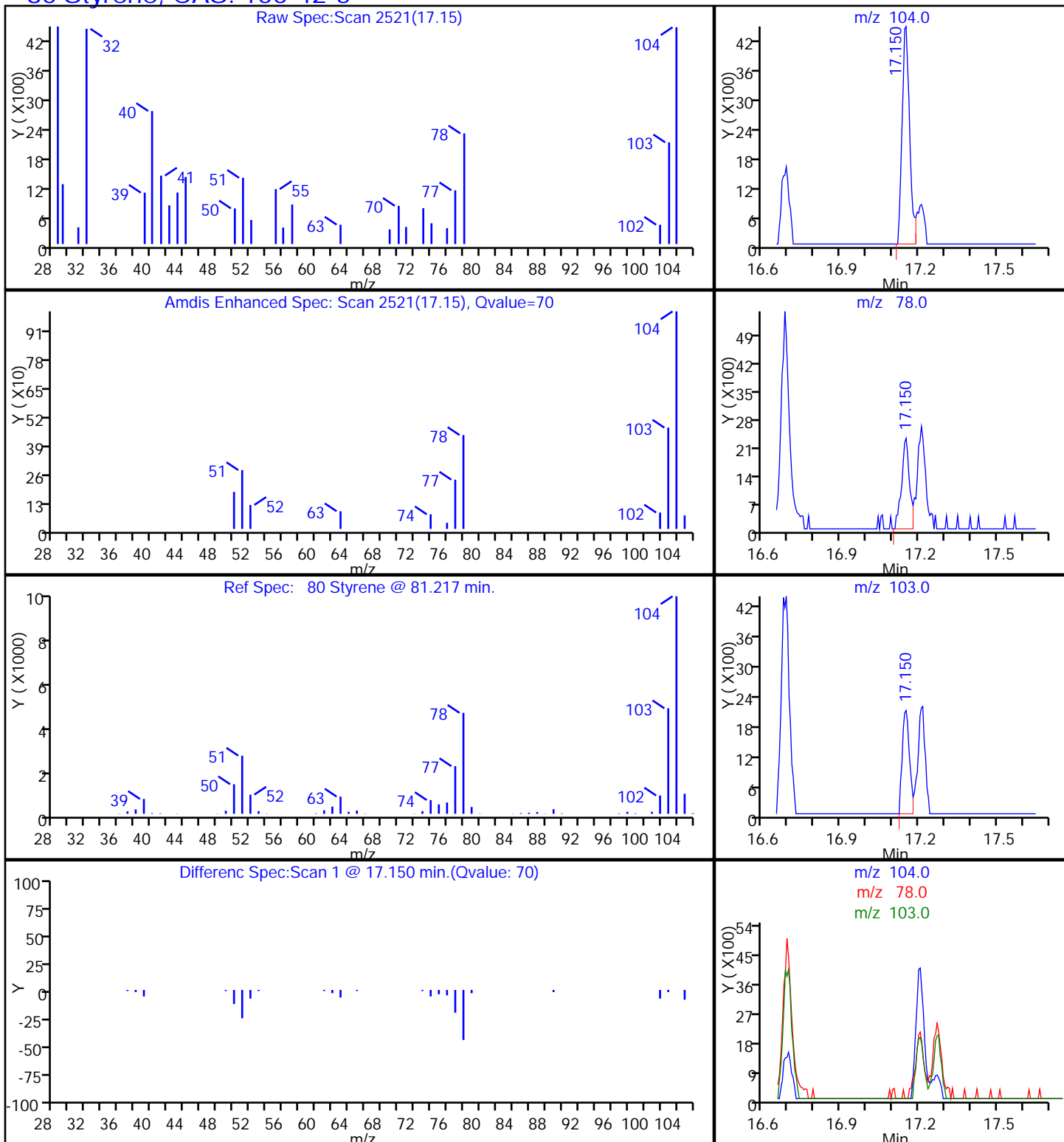
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

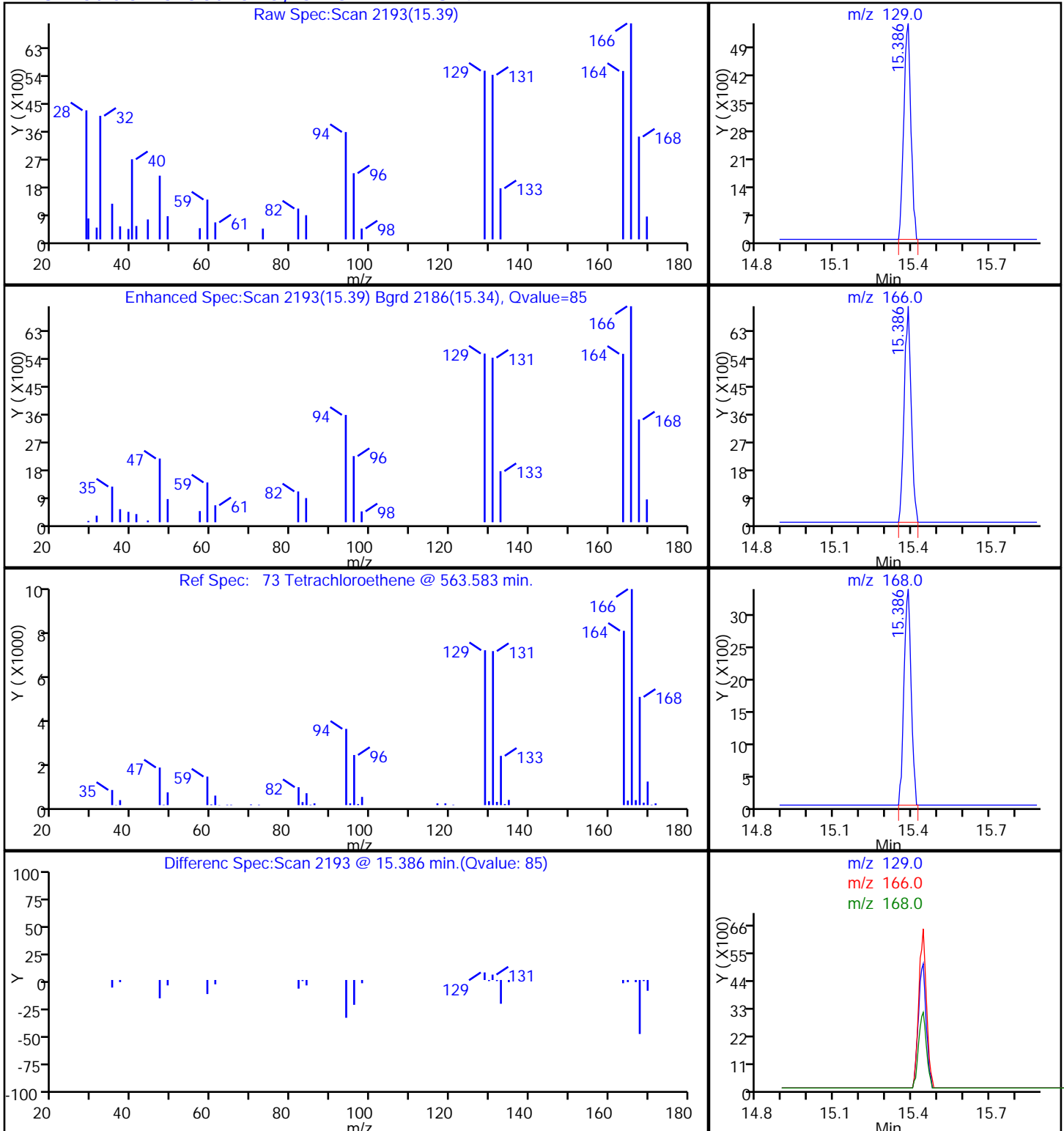
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

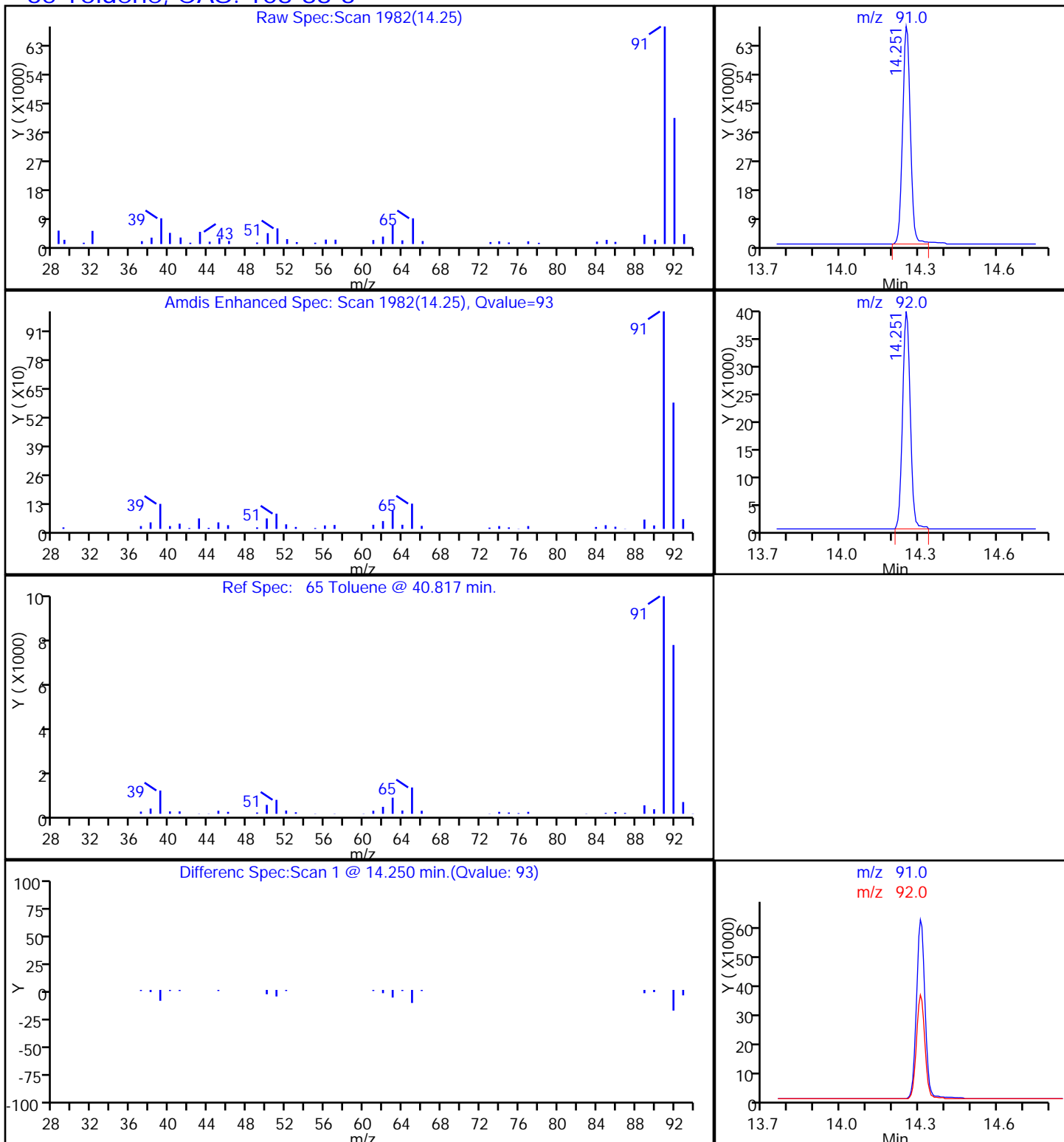
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P210.D

Injection Date: 19-Mar-2014 04:13:30

Instrument ID: MJ

Lims ID: 140-1063-A-8

Lab Sample ID: 140-1063-8

Client ID: PCV-IA2-B7

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

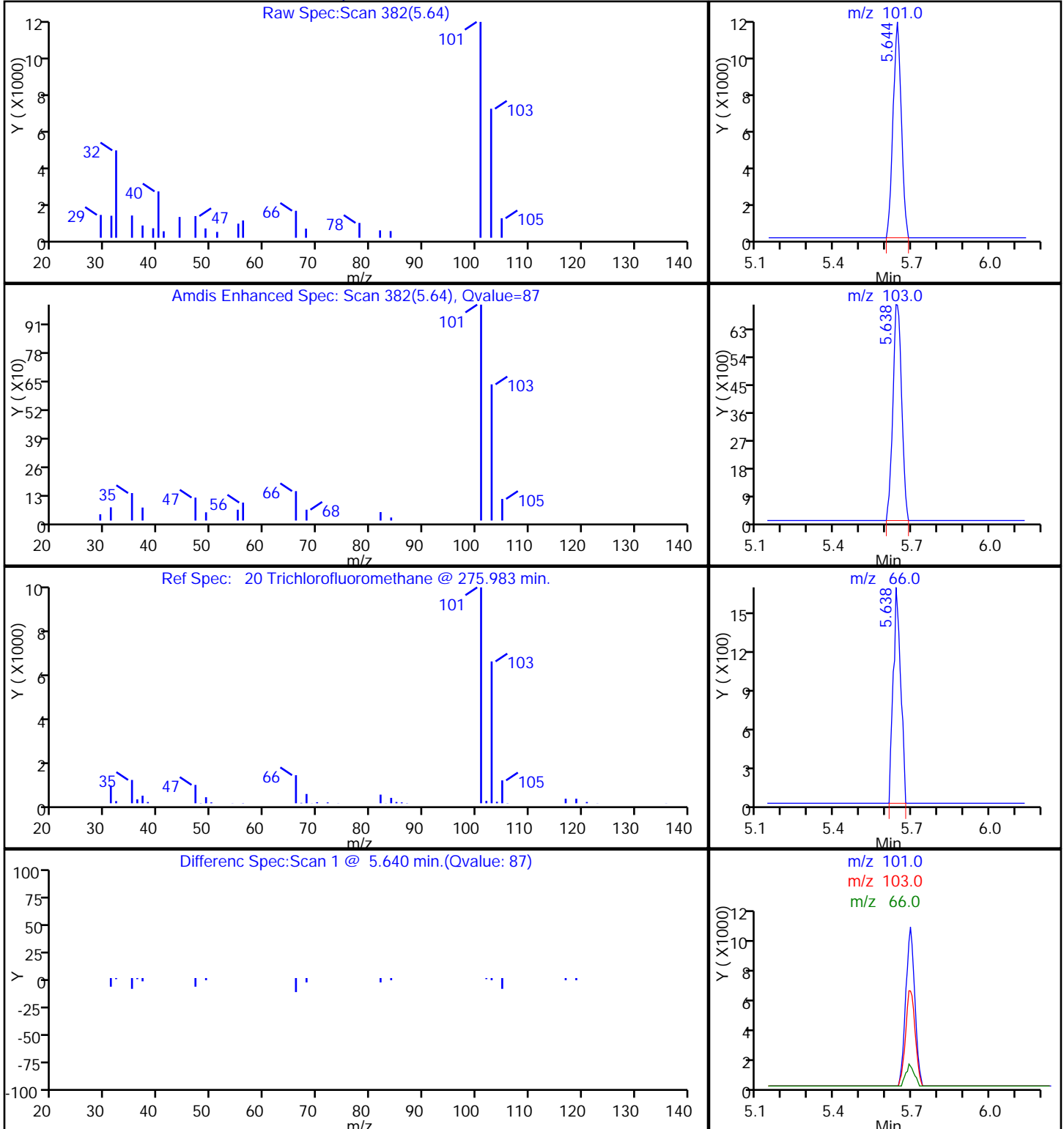
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9
 Matrix: Air Lab File ID: JC18P211.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.16	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.14	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.62	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.92		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.23		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.13	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.21	J	0.50	0.045
67-64-1	Acetone	58.08	3.8	J	5.0	1.4
71-43-2	Benzene	78.11	0.36		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9
 Matrix: Air Lab File ID: JC18P211.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.065	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.056	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.58		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.068	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	23		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.068
142-82-5	Heptane	100.21	0.15	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.36	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.4	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.82		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.94		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.38		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	0.073	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.14	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.1		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9
 Matrix: Air Lab File ID: JC18P211.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:10
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 05:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9
 Matrix: Air Lab File ID: JC18P211.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.55	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.81	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.63	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.7		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.83		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.62	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.86	J	2.0	0.18
67-64-1	Acetone	58.08	8.9	J	12	3.3
71-43-2	Benzene	78.11	1.1		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9
 Matrix: Air Lab File ID: JC18P211.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 05:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.41	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.27	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.23	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	44		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	0.60	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.3	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.5	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	4.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.6		0.87	0.26
115-07-1	Propene	42.08	1.8	cn	0.86	0.13
100-42-5	Styrene	104.15	0.31	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.97	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B7 Lab Sample ID: 140-1063-9
 Matrix: Air Lab File ID: JC18P211.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:10
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 05:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D
 Lims ID: 140-1063-A-9 Lab Sample ID: 140-1063-9
 Client ID: PCV-IA3-B7
 Sample Type: Client
 Inject. Date: 19-Mar-2014 05:07:30 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-9
 Misc. Info.: J031814,TO15,,140-0000527-017
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 13:03:37 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:05:27

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	90	344401	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	94	1626086	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1289345	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	865581	3.80	
7 Propene	41	3.981	3.971	0.010	94	44970	0.4258	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	61854	0.1813	
9 Chloromethane	52	4.234	4.229	0.005	93	9002	0.2323	
17 Ethanol	31	5.121	5.116	0.005	95	257584	9.32	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	53704	0.3671	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	87	26032	0.0869	
23 Acetone	58	5.767	5.767	0.0	98	73659	1.50	
24 Isopropyl alcohol	45	5.853	5.848	0.005	92	73174	0.5660	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.580	-0.006	54	5917	0.0285	
31 Methylene Chloride	84	6.757	6.757	0.0	95	30093	0.3266	
35 2-Methylpentane	43	7.628	7.623	0.005	87	24917	0.0938	
39 2-Butanone (MEK)	72	8.596	8.586	0.010	81	8043	0.2467	
40 Hexane	56	8.634	8.635	-0.001	88	13473	0.1455	
43 Chloroform	83	9.387	9.393	-0.006	3	4506	0.0225	
48 Benzene	78	11.022	11.023	-0.001	94	39764	0.1425	
49 Cyclohexane	69	11.033	11.034	-0.001	34	1498	0.0272	
50 Carbon tetrachloride	117	11.049	11.050	-0.001	85	6024	0.0261	
53 Isooctane	57	11.759	11.760	-0.001	90	25832	0.0542	
54 n-Heptane	71	12.120	12.120	0.0	80	5782	0.0586	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.368	0.011	84	14320	0.0840	
65 Toluene	91	14.250	14.256	-0.006	92	105829	0.4425	
73 Tetrachloroethene	129	15.385	15.386	-0.001	80	6353	0.0570	
76 Ethylbenzene	91	16.531	16.532	-0.001	82	24380	0.0923	
78 m-Xylene & p-Xylene	91	16.687	16.688	-0.001	99	79848	0.3745	
80 Styrene	104	17.144	17.150	-0.006	31	4250	0.0290	
82 o-Xylene	91	17.209	17.215	-0.006	90	32470	0.1502	
88 4-Ethyltoluene	105	18.457	18.447	0.010	59	14404	0.0502	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	81	16425	0.0656	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Worklist Smp#: 17

Client ID: PCV-IA3-B7

Purge Vol: 500.000 mL

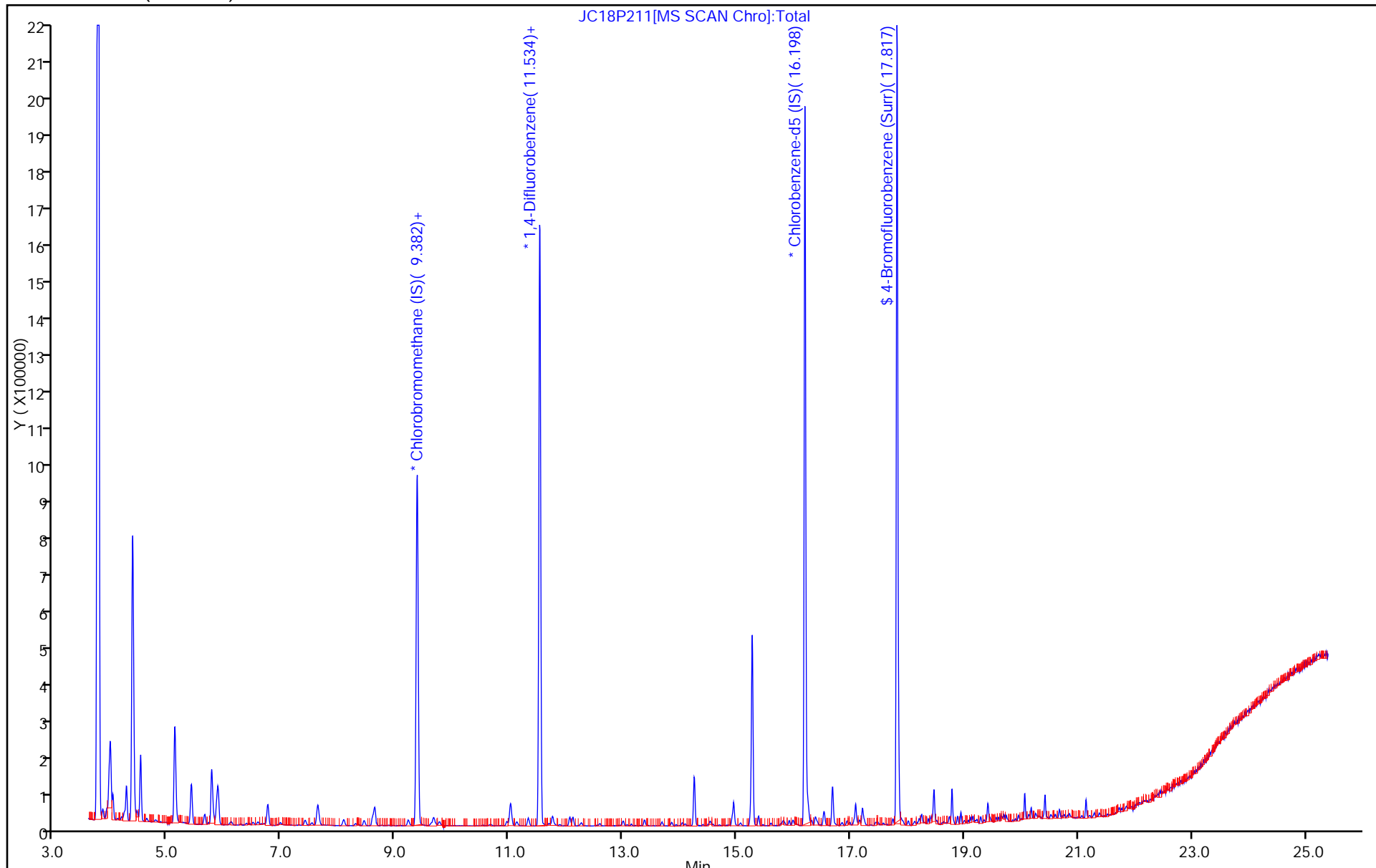
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

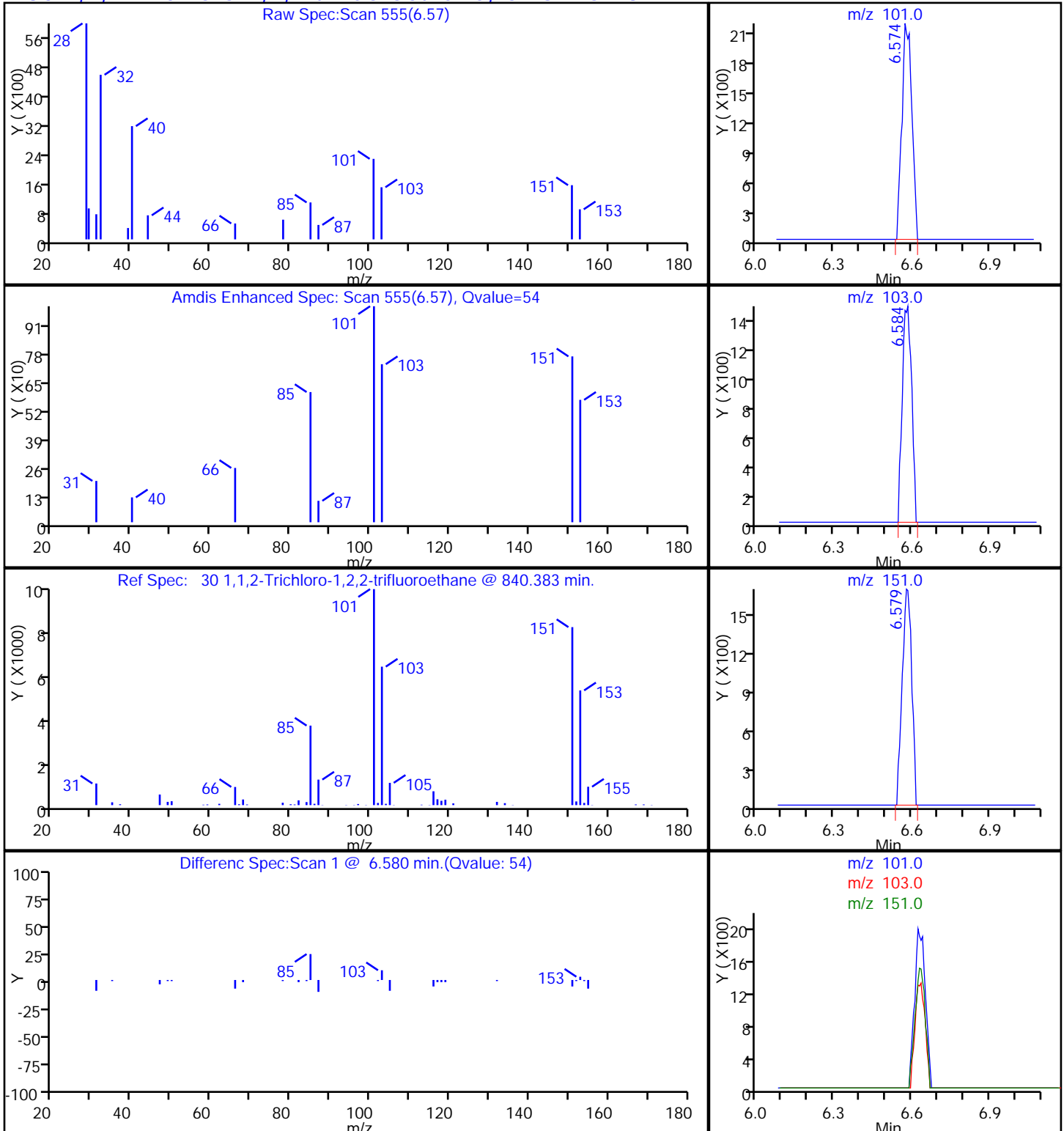
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

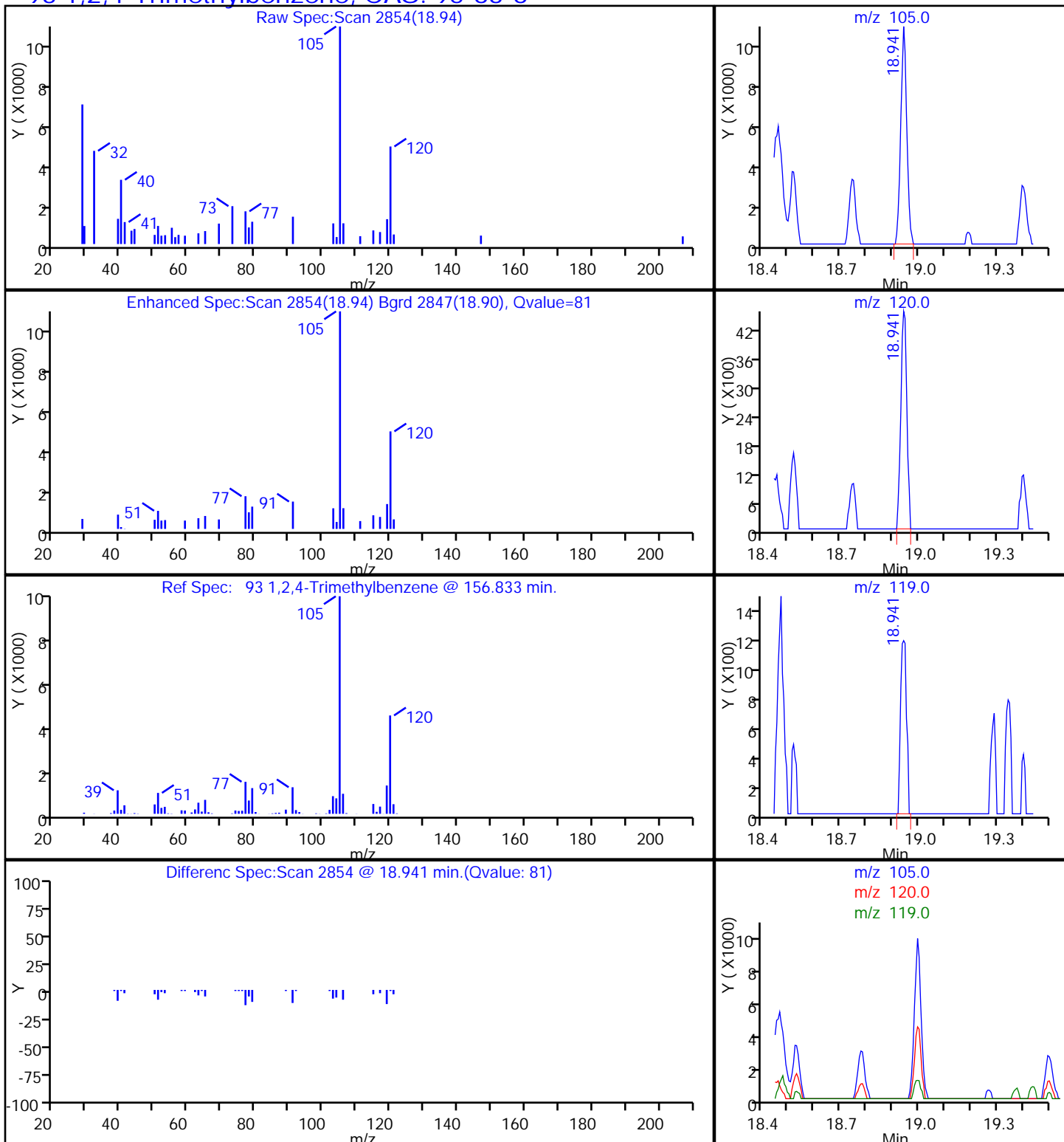
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

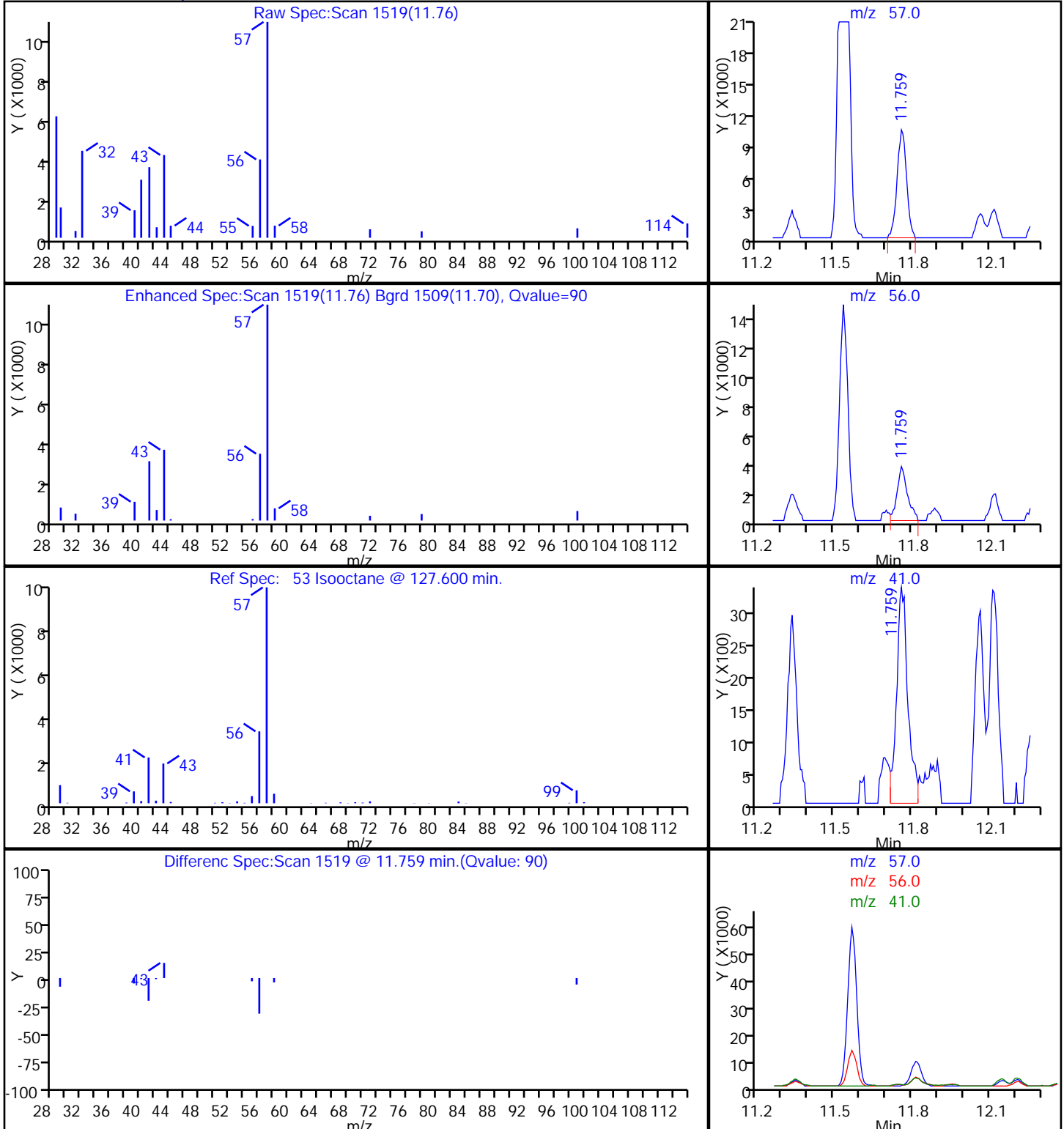
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

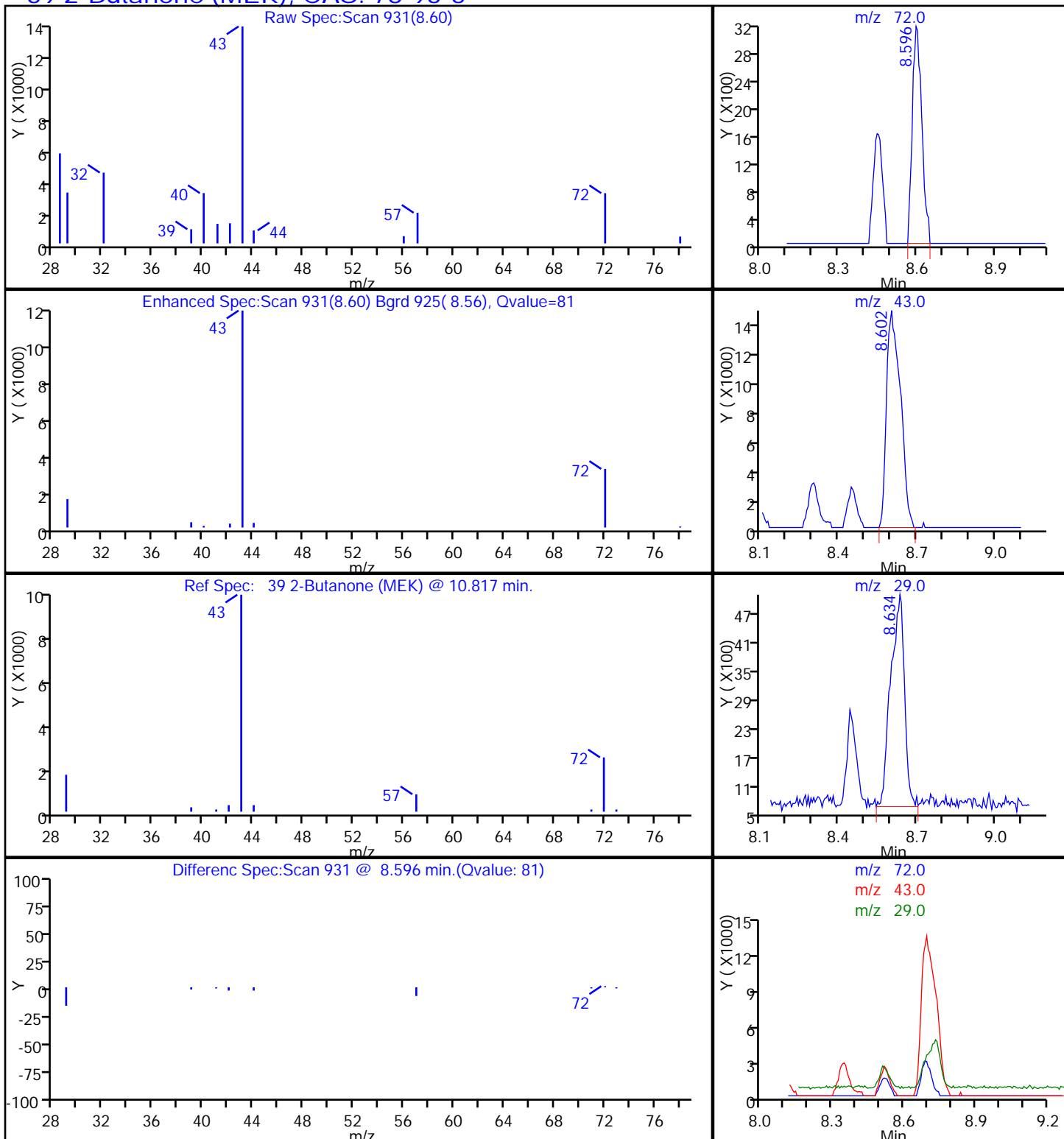
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

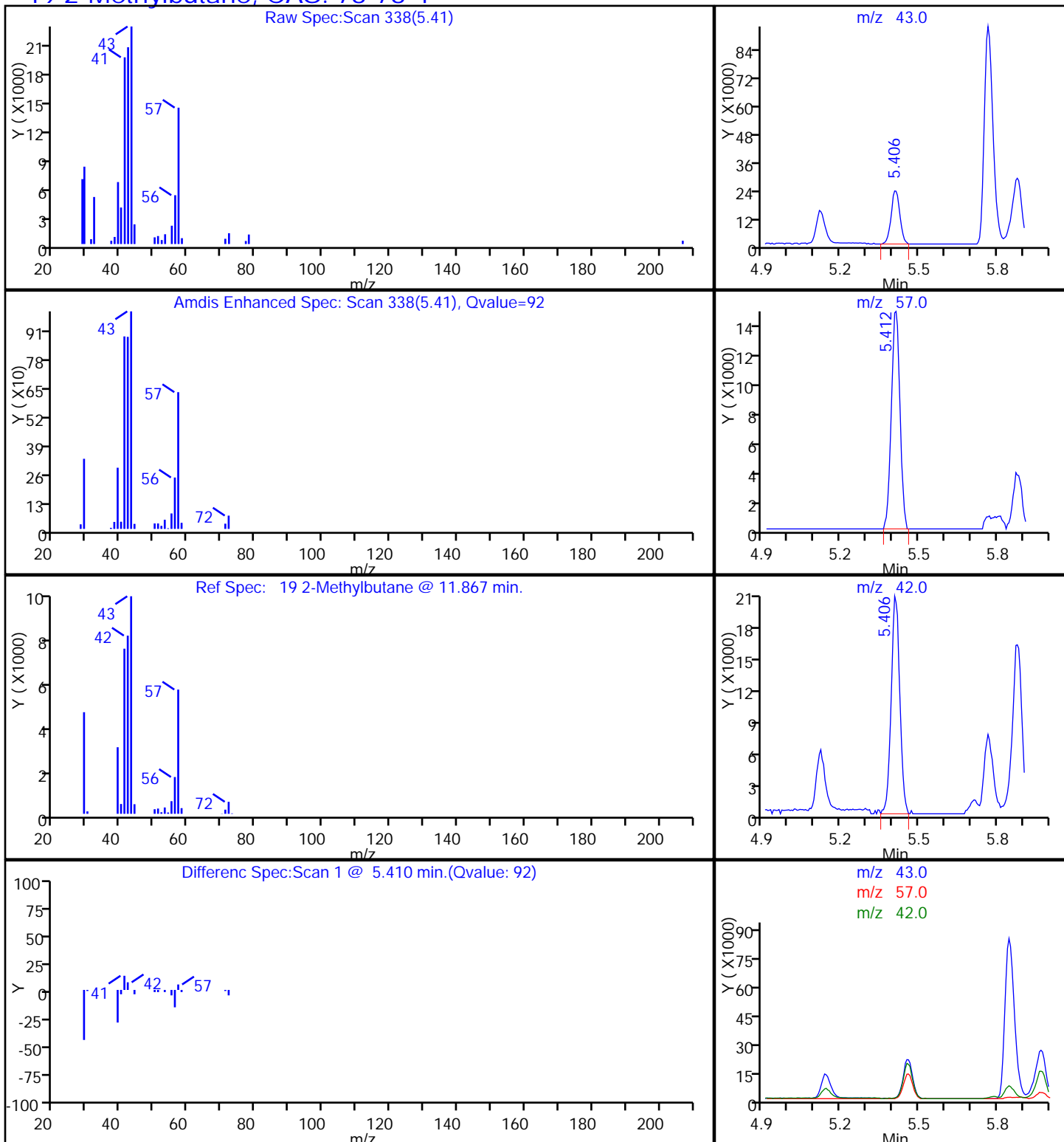
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

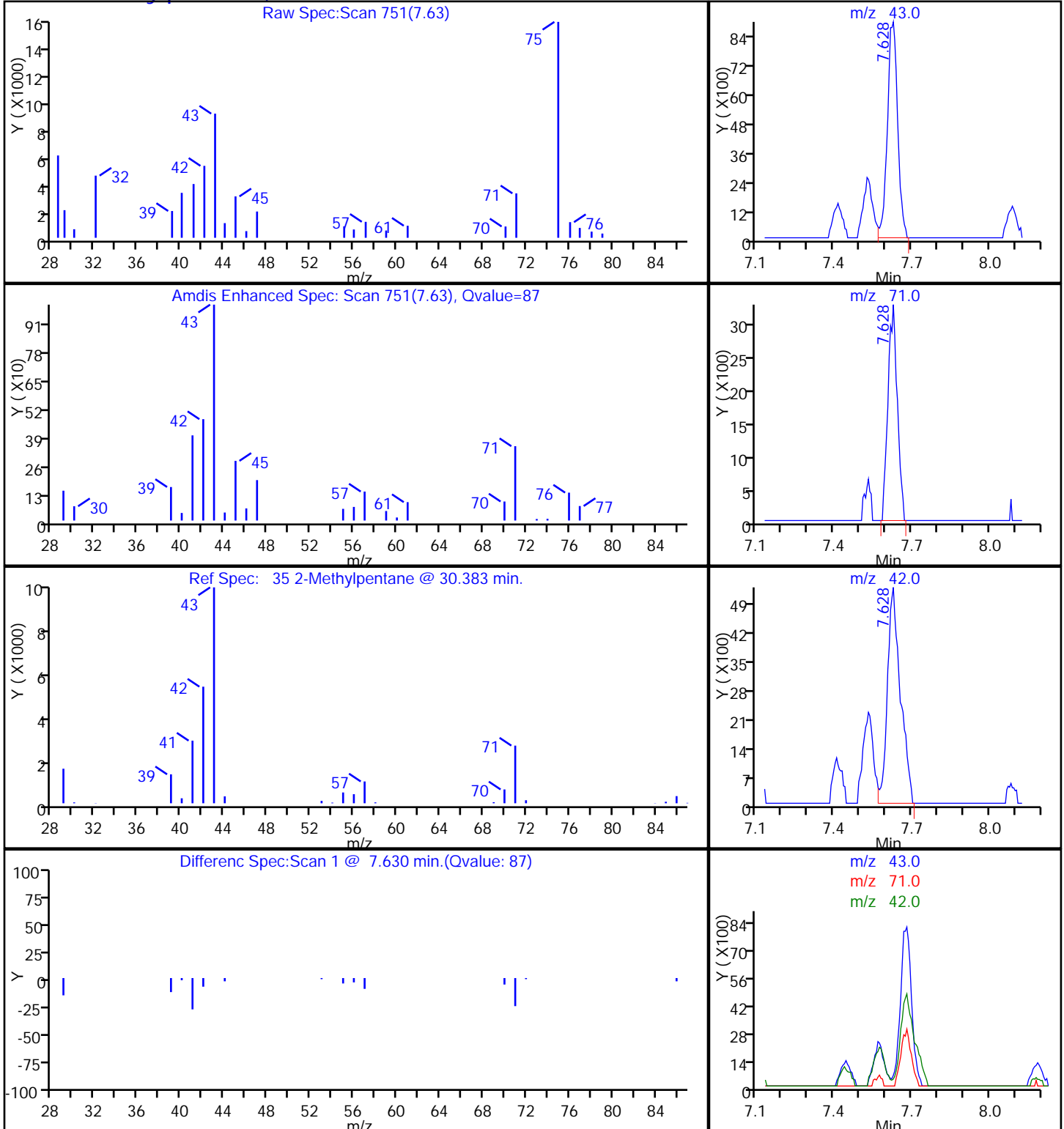
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

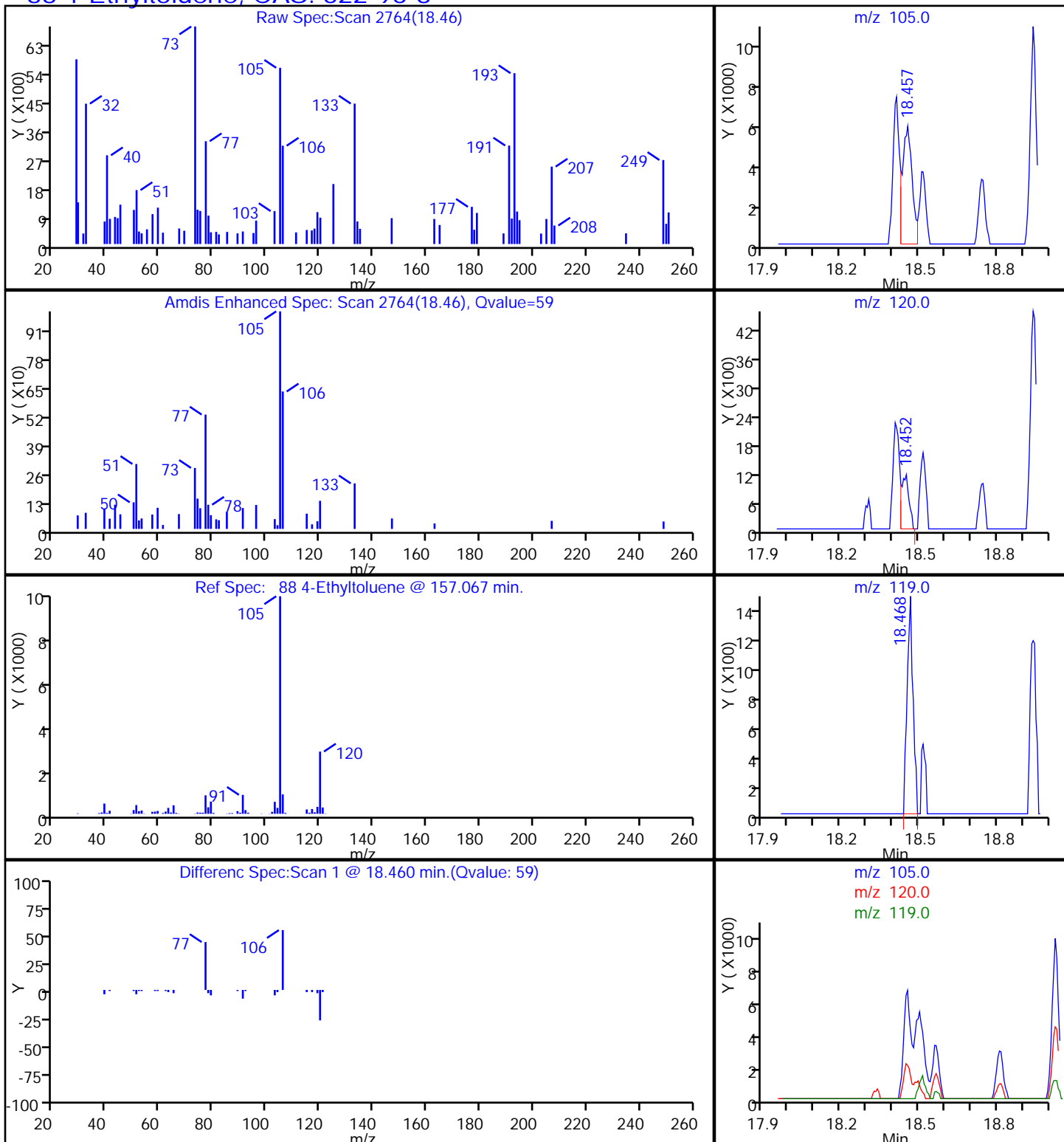
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

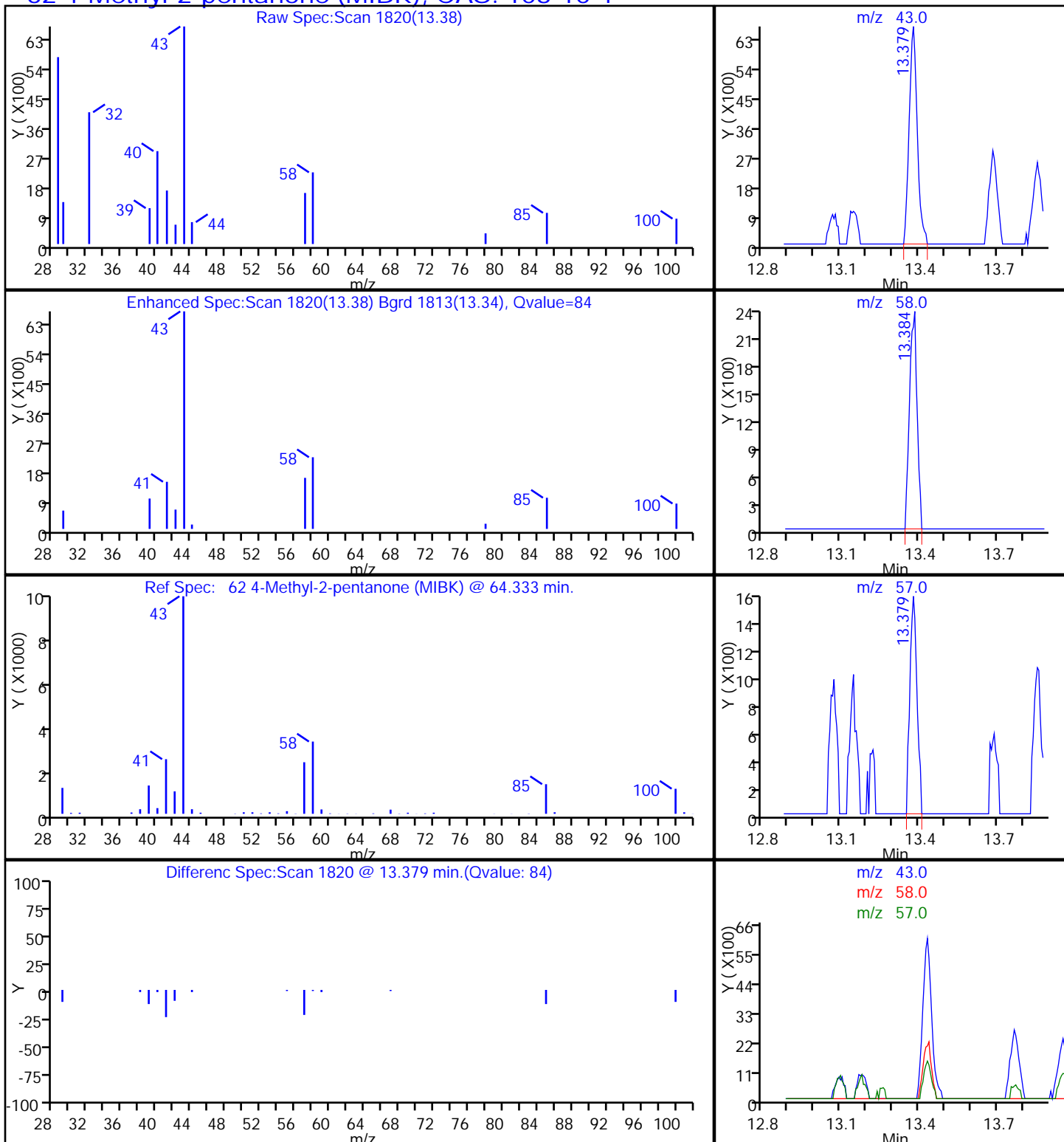
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

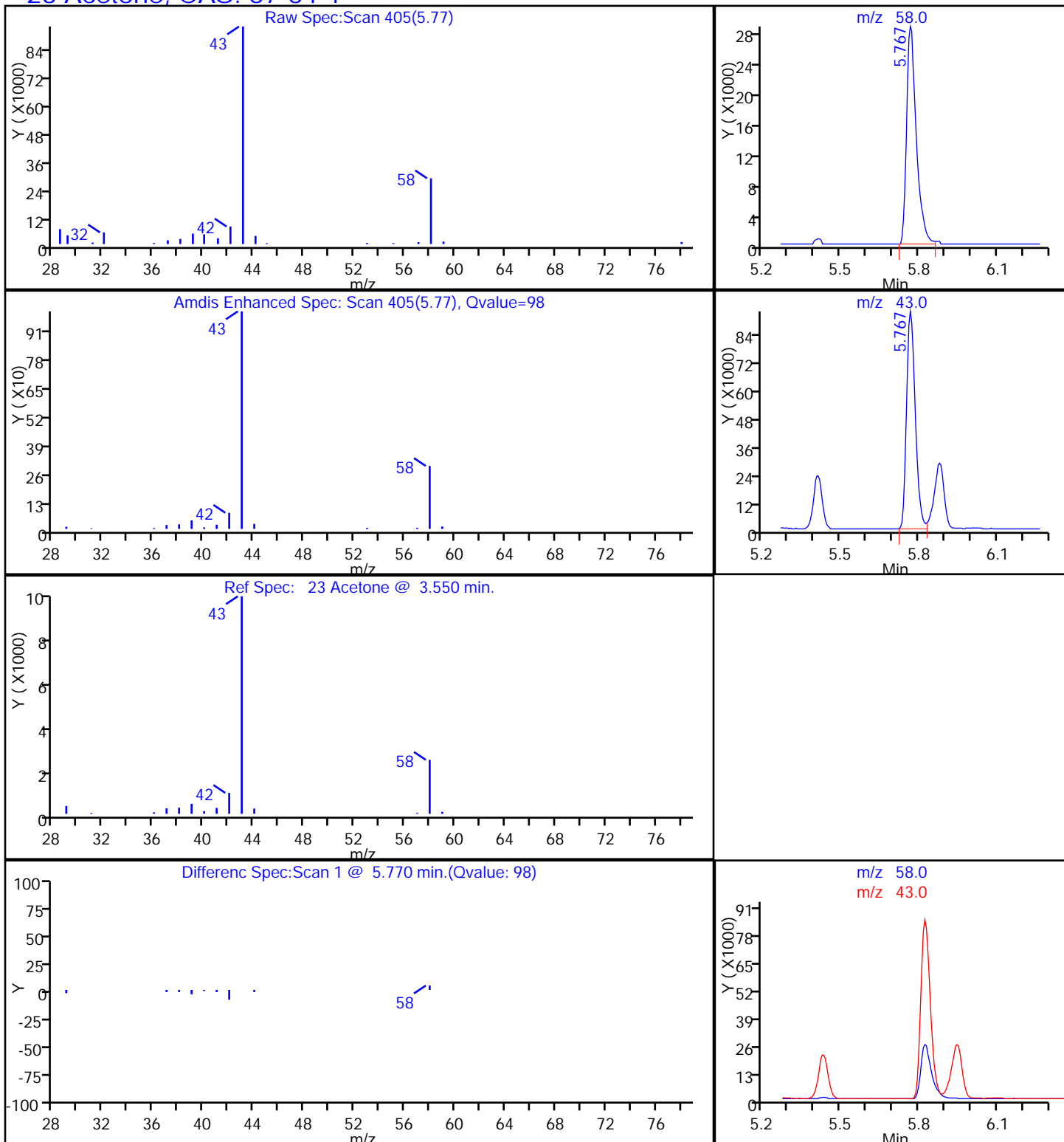
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

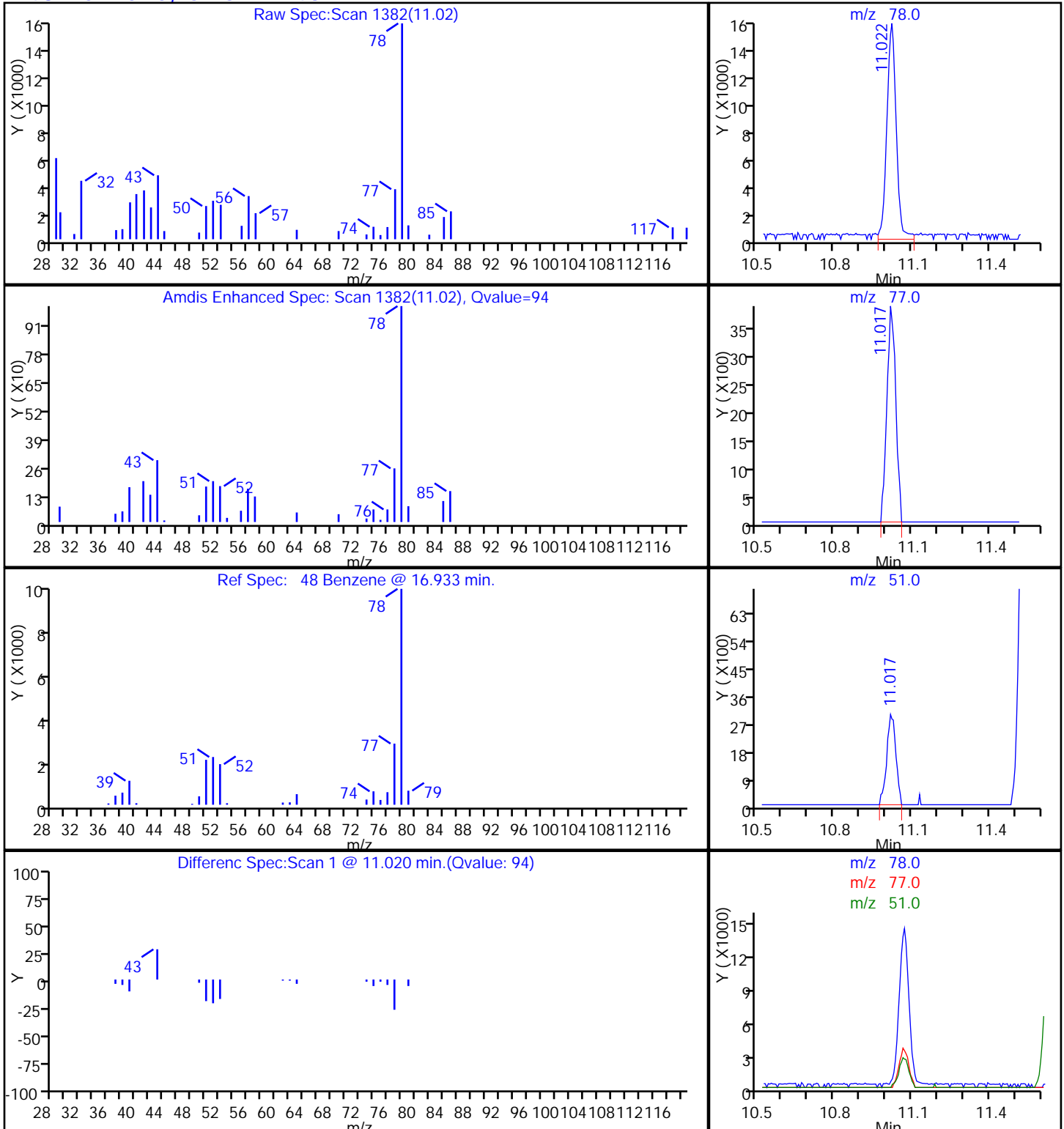
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

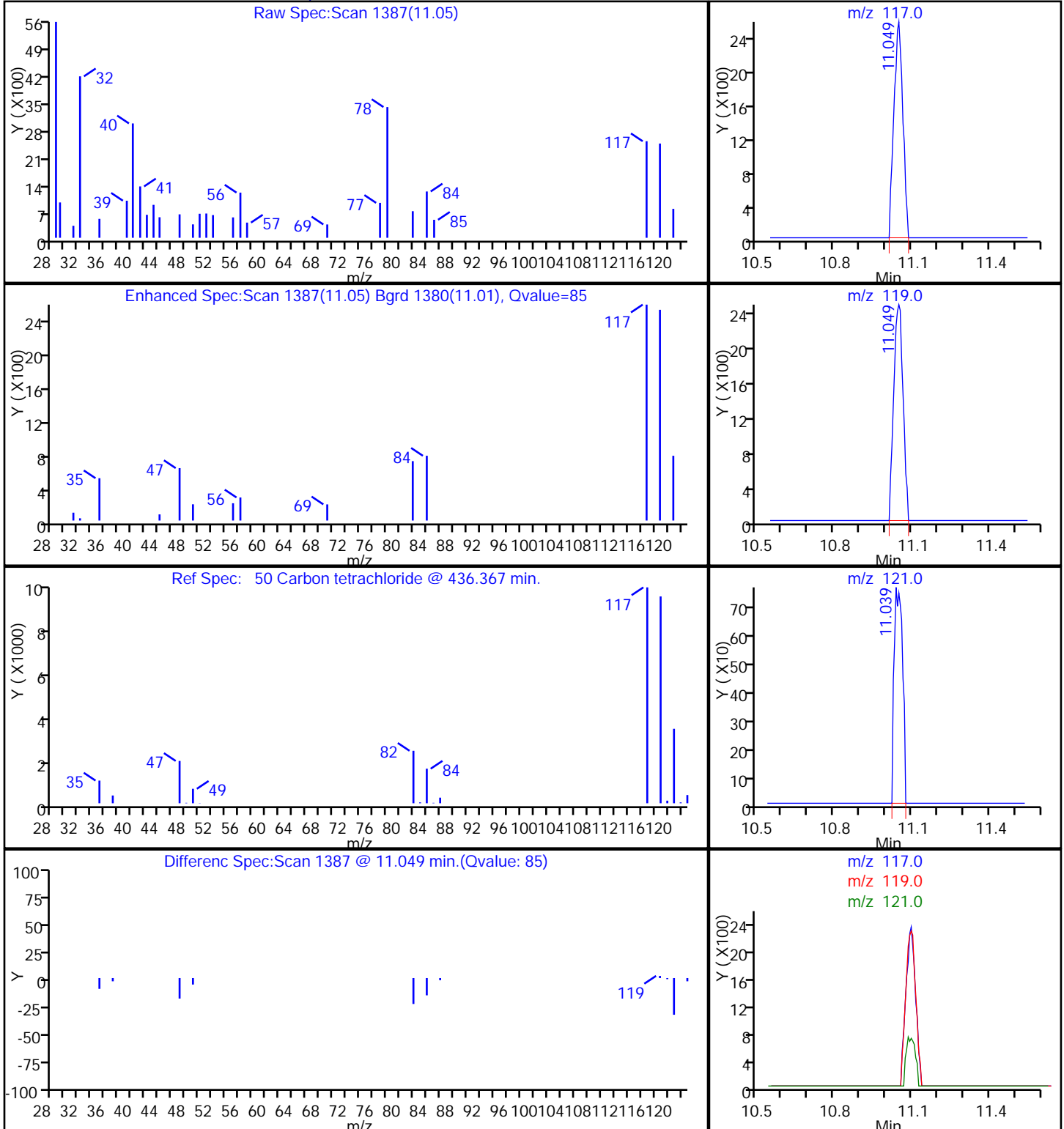
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

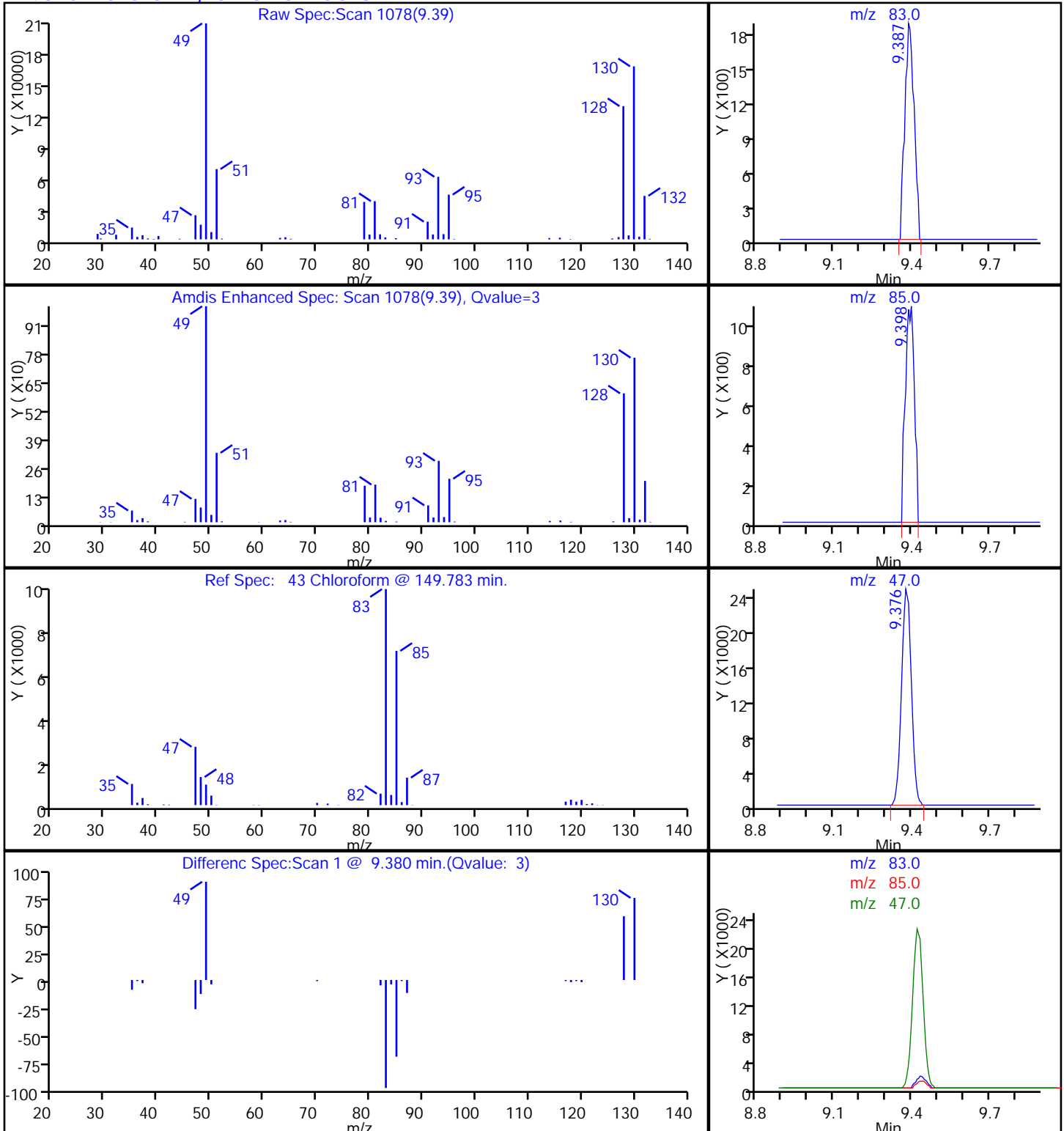
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

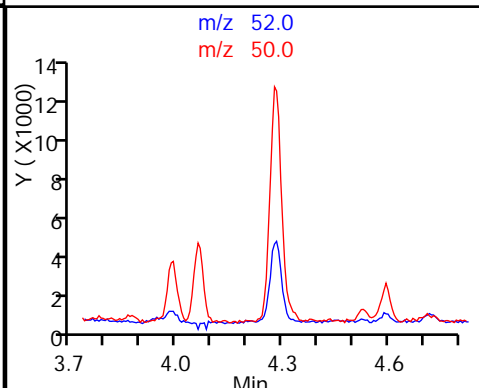
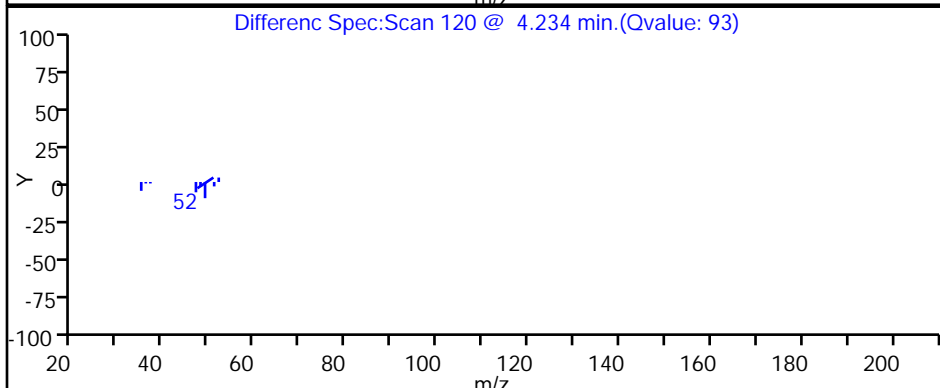
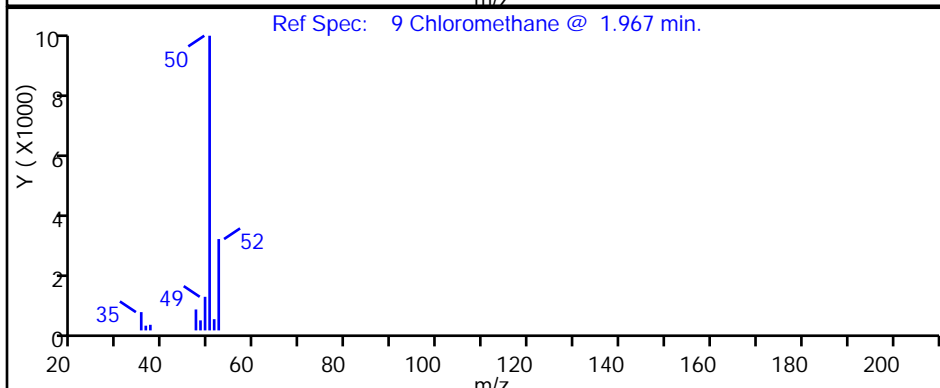
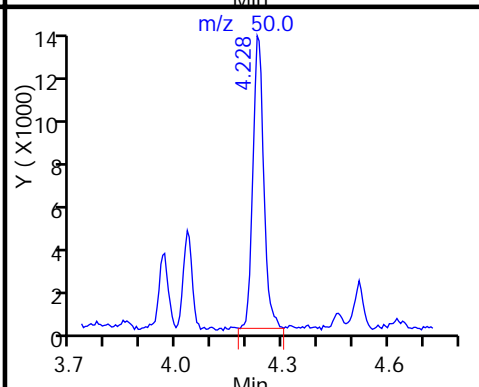
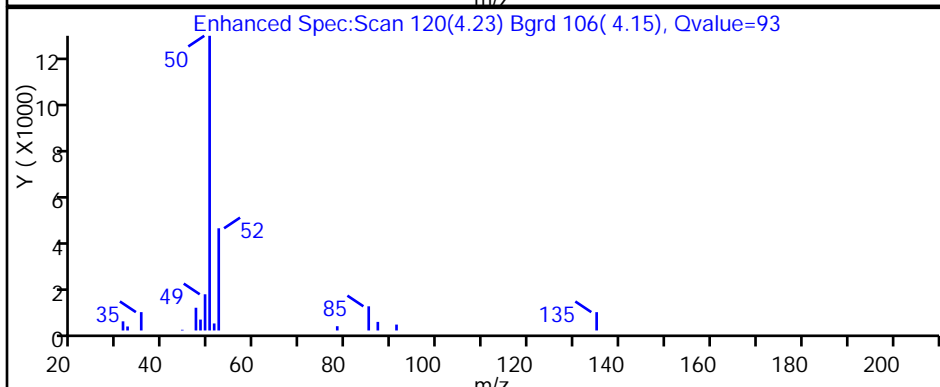
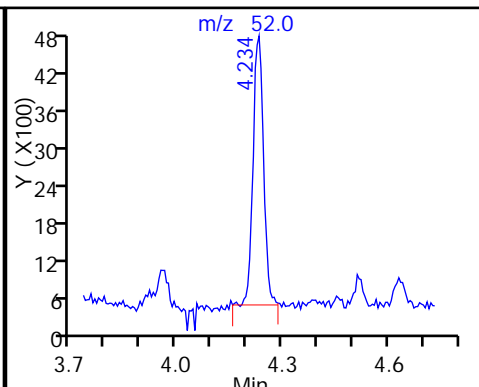
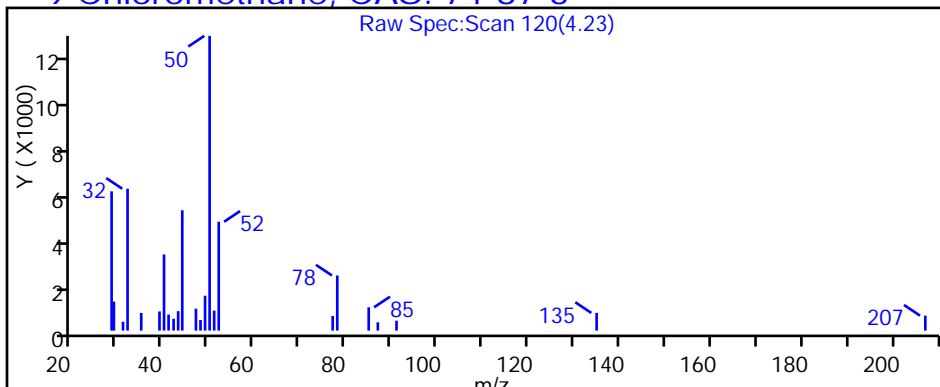
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

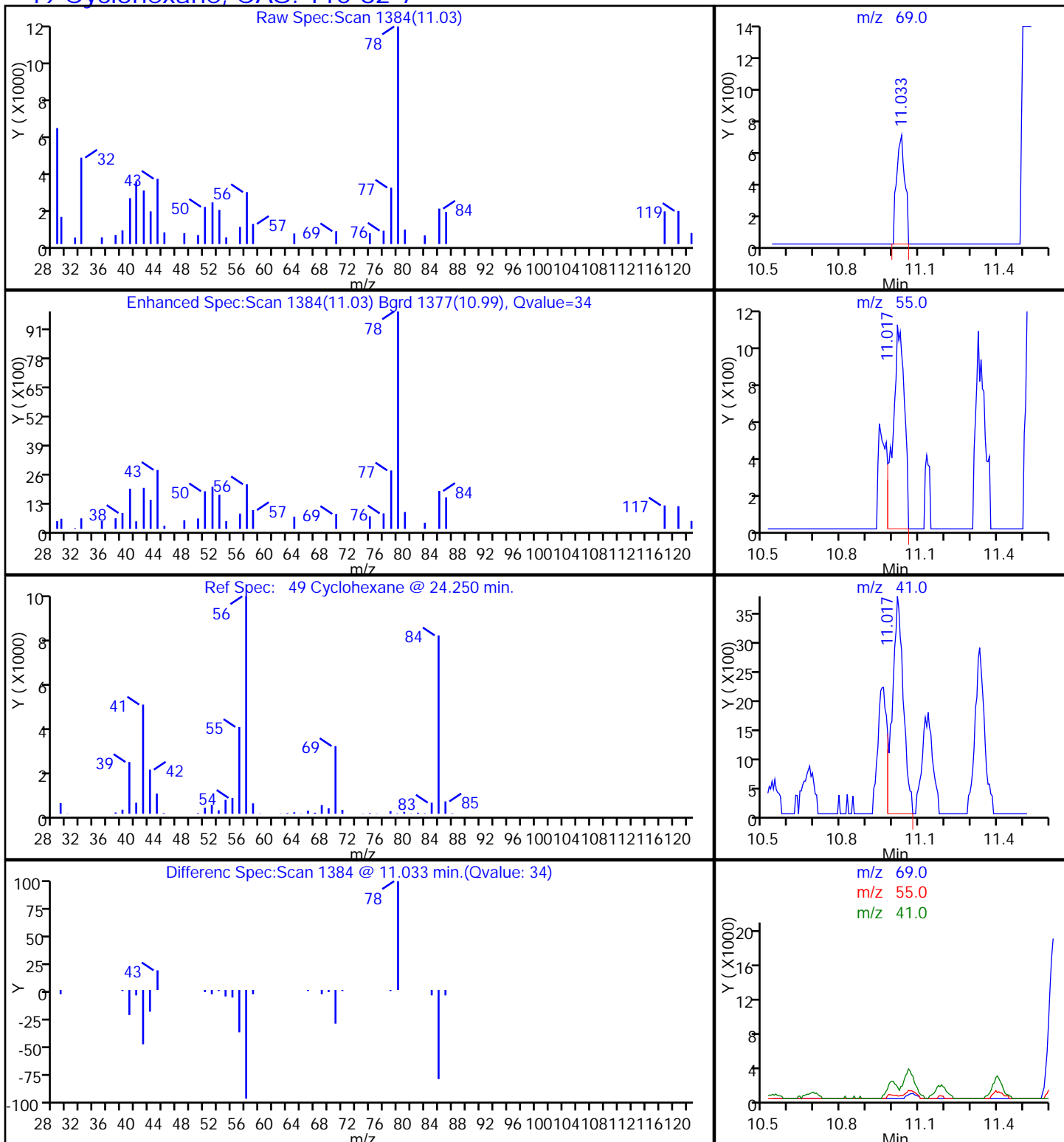
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

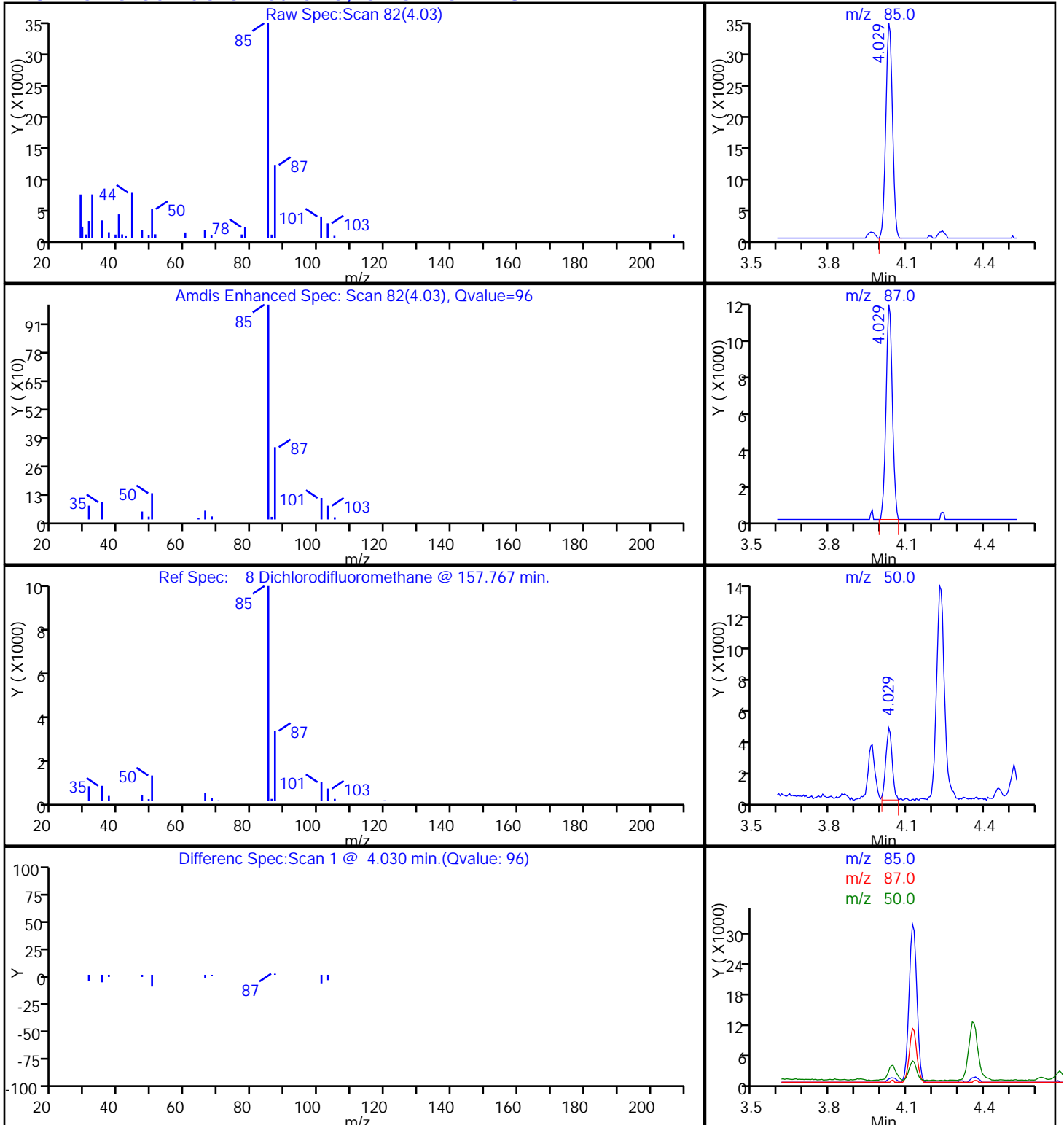
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

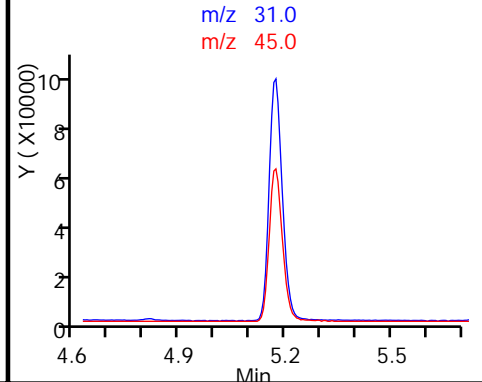
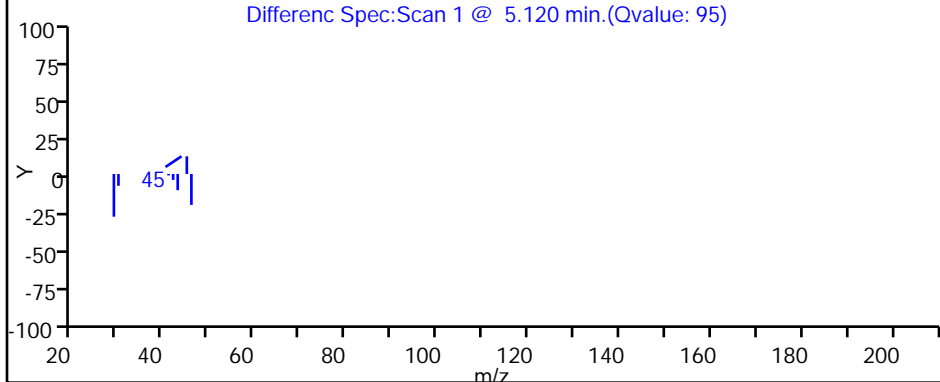
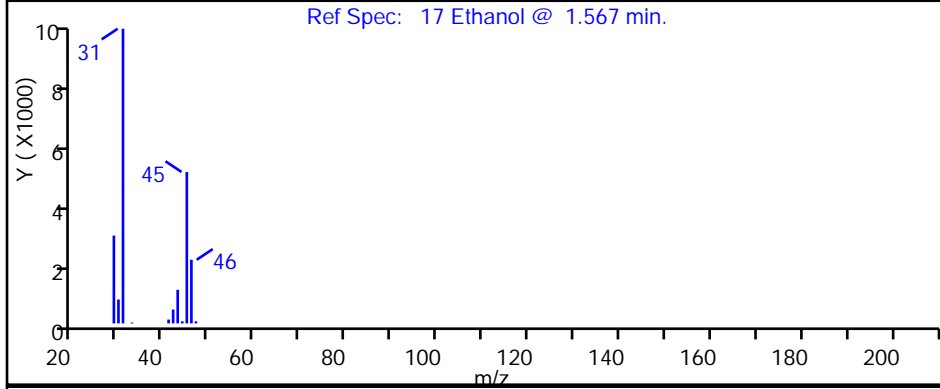
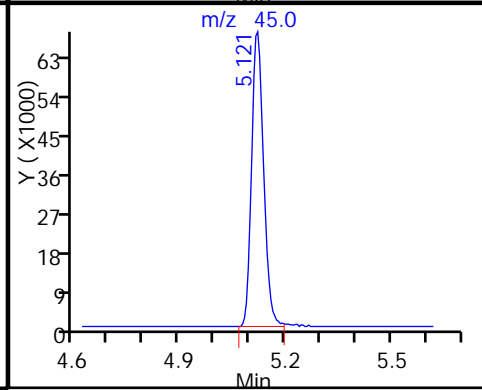
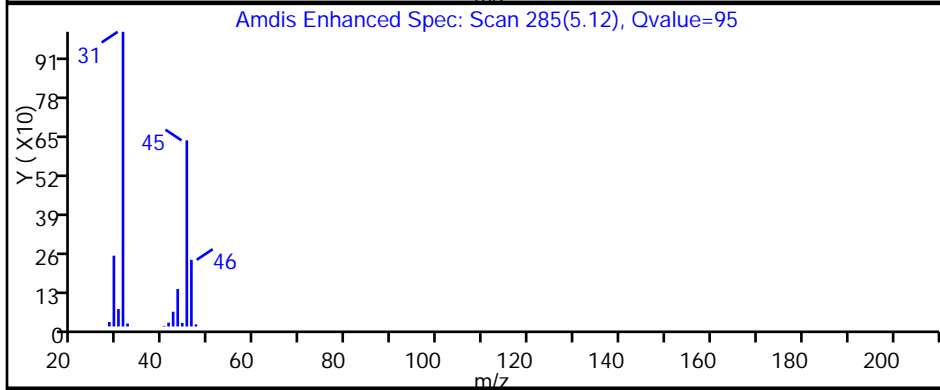
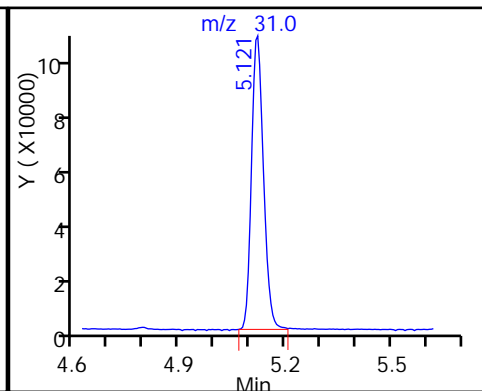
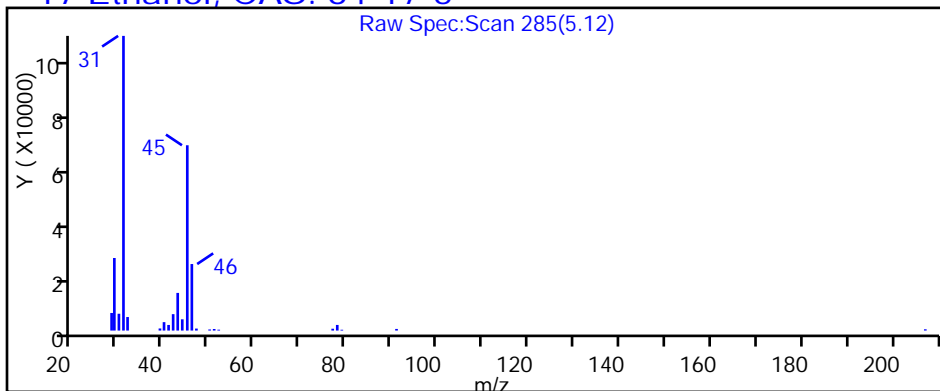
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

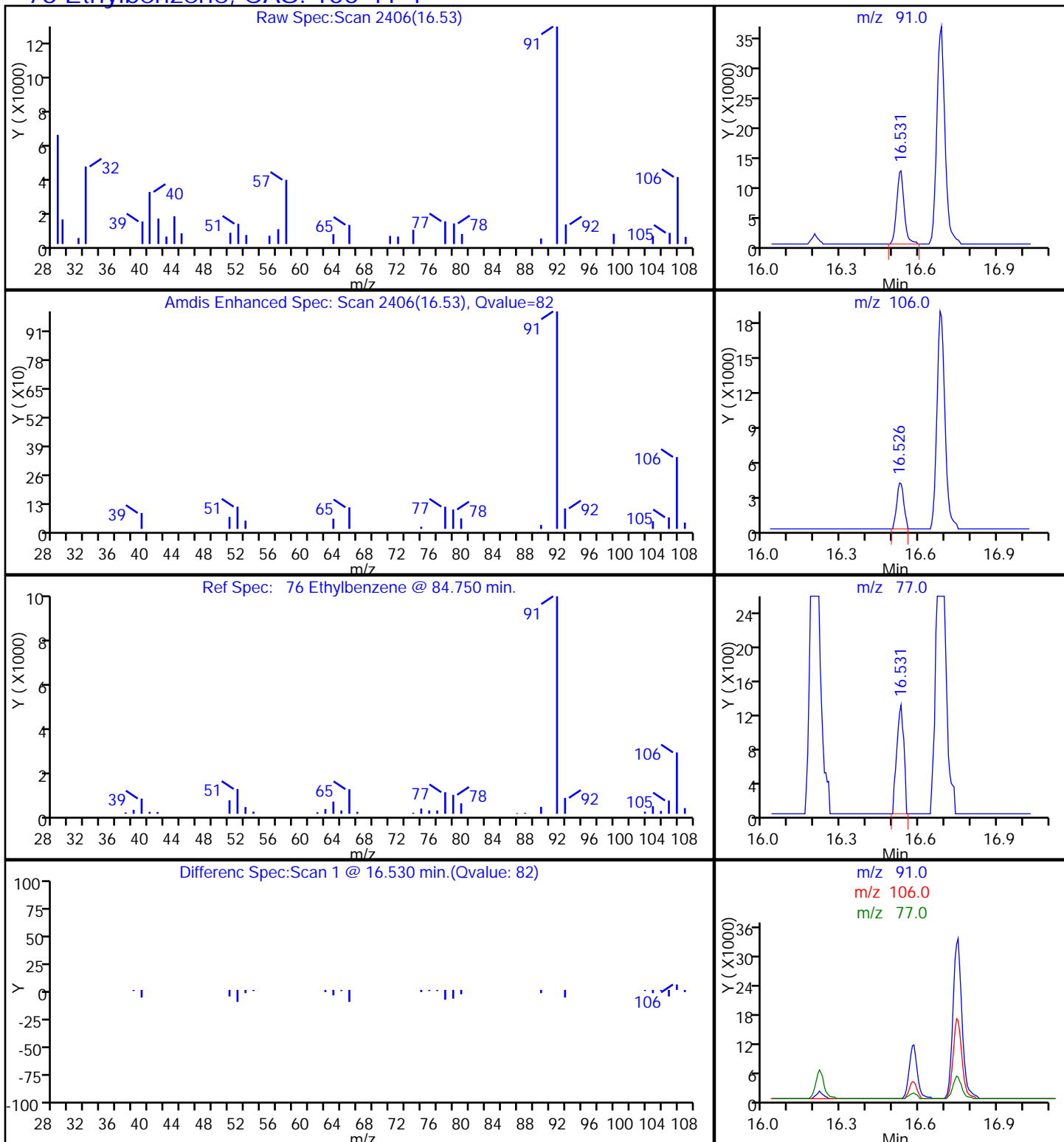
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

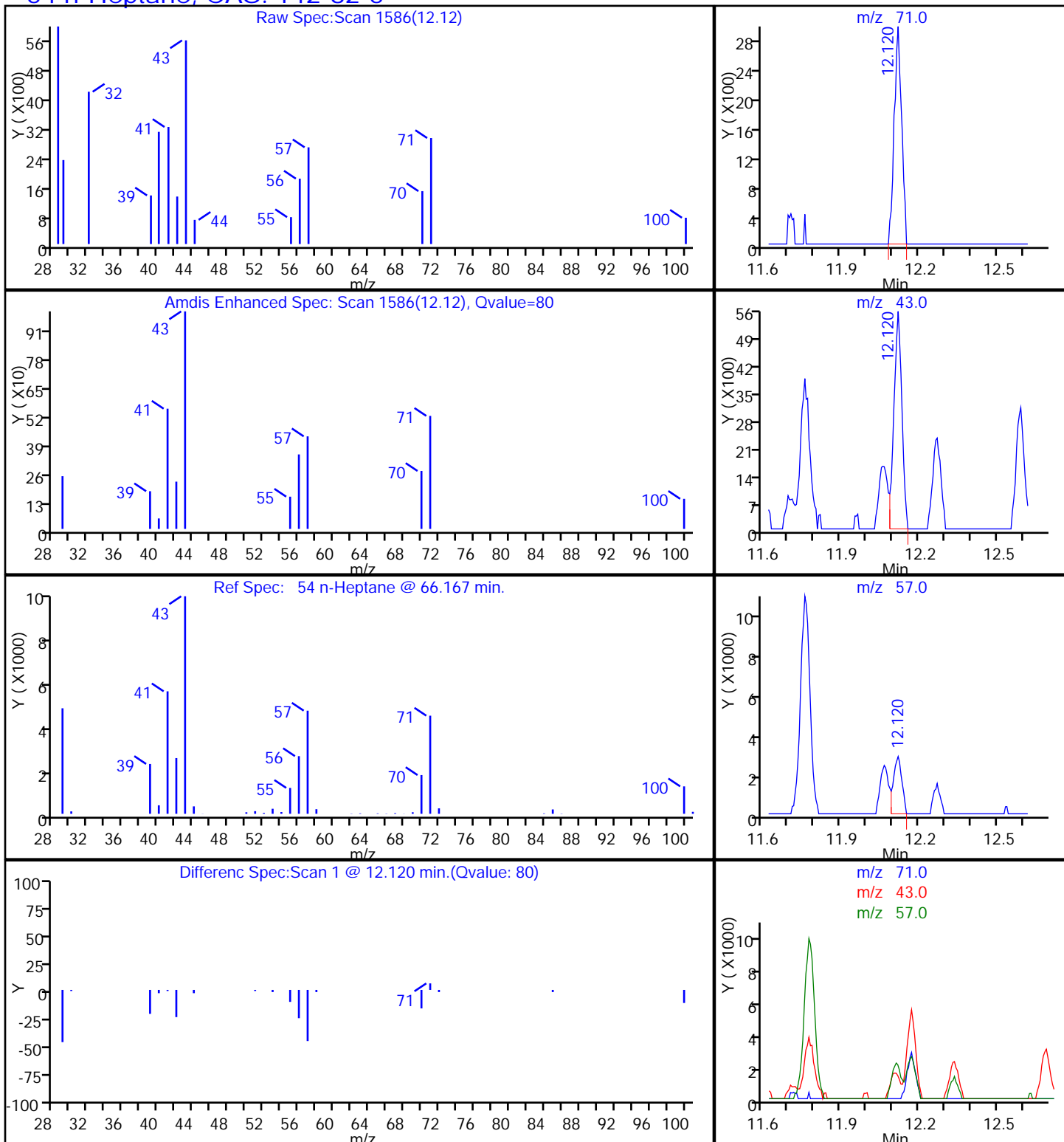
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

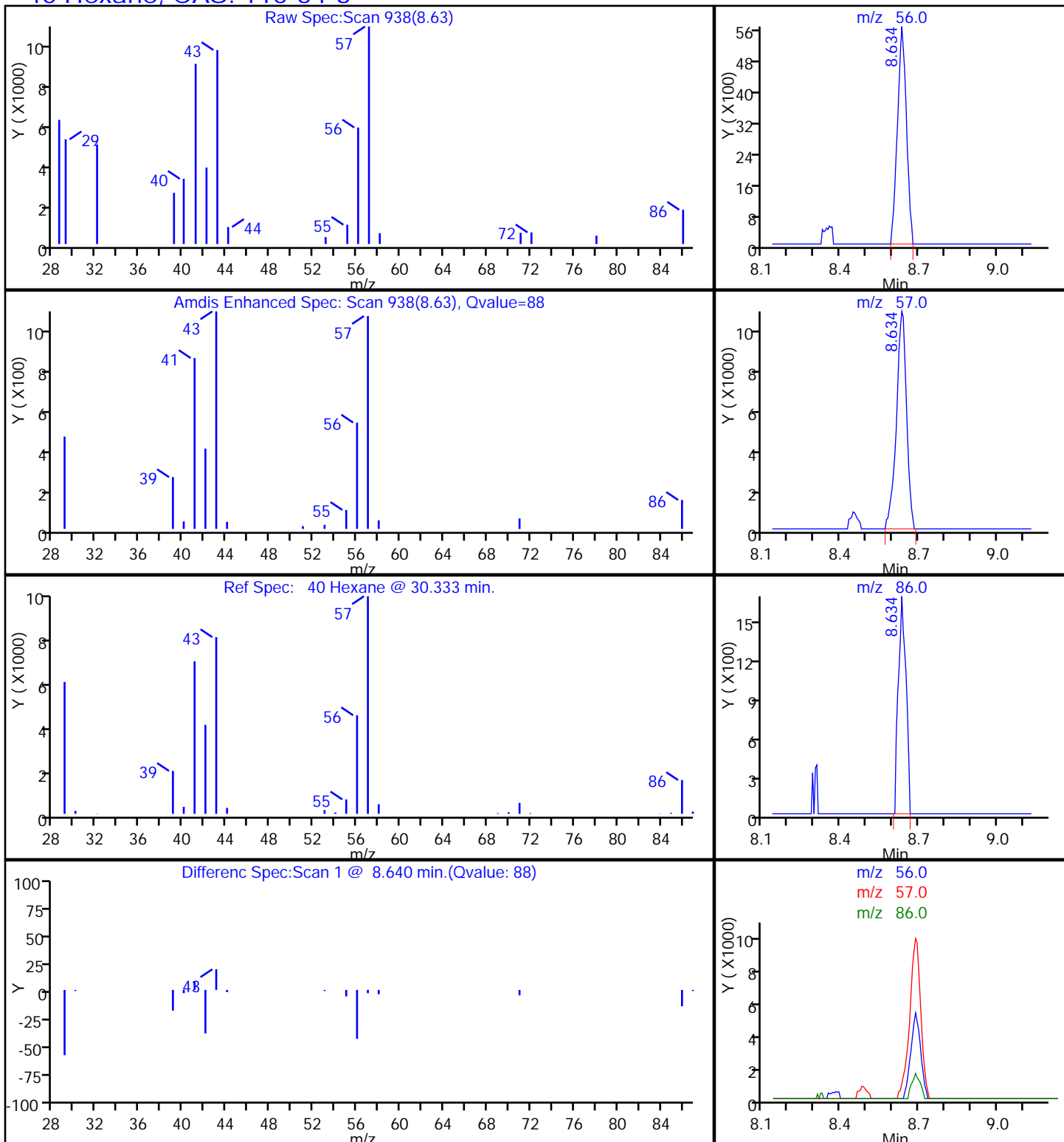
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

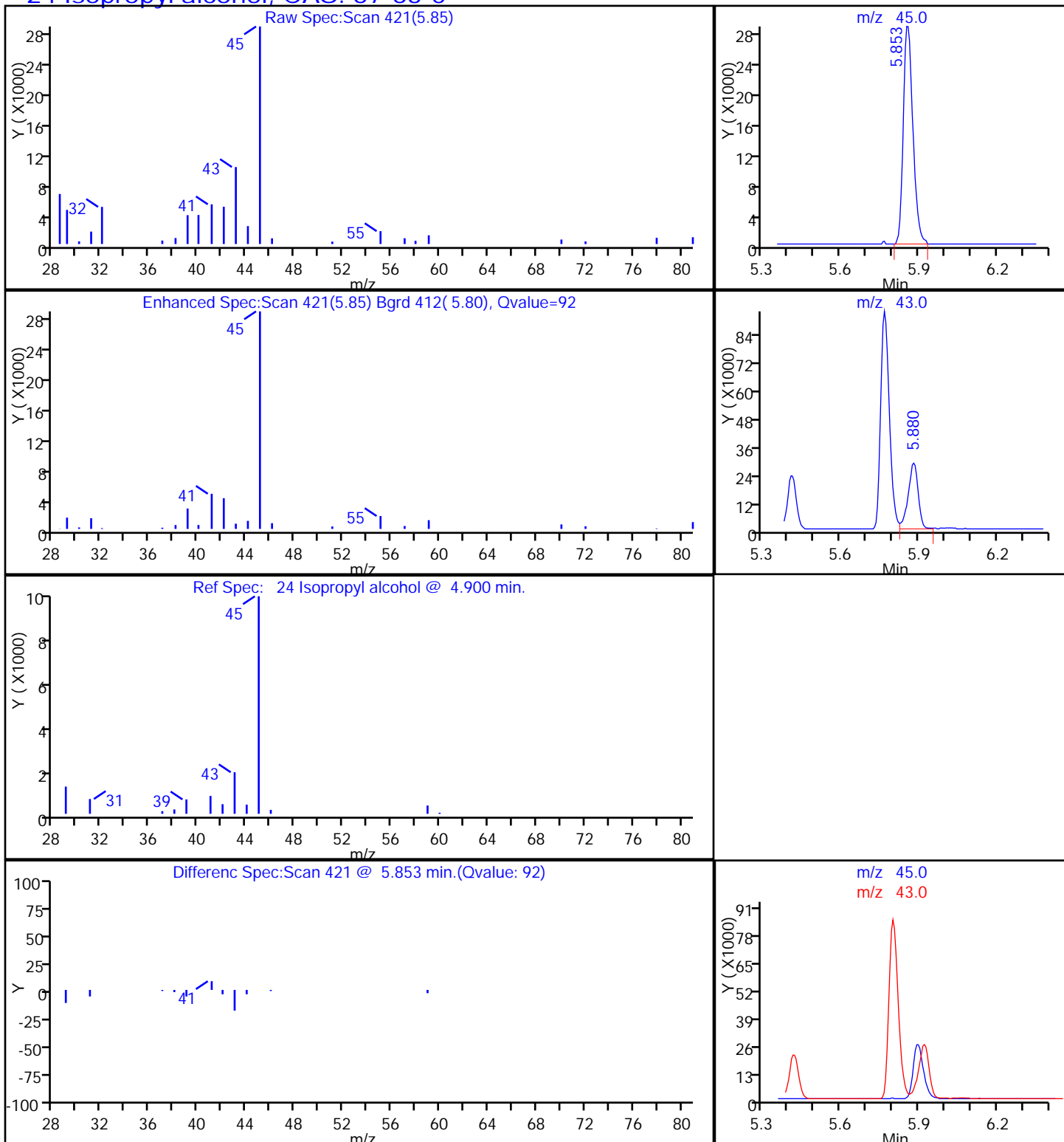
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

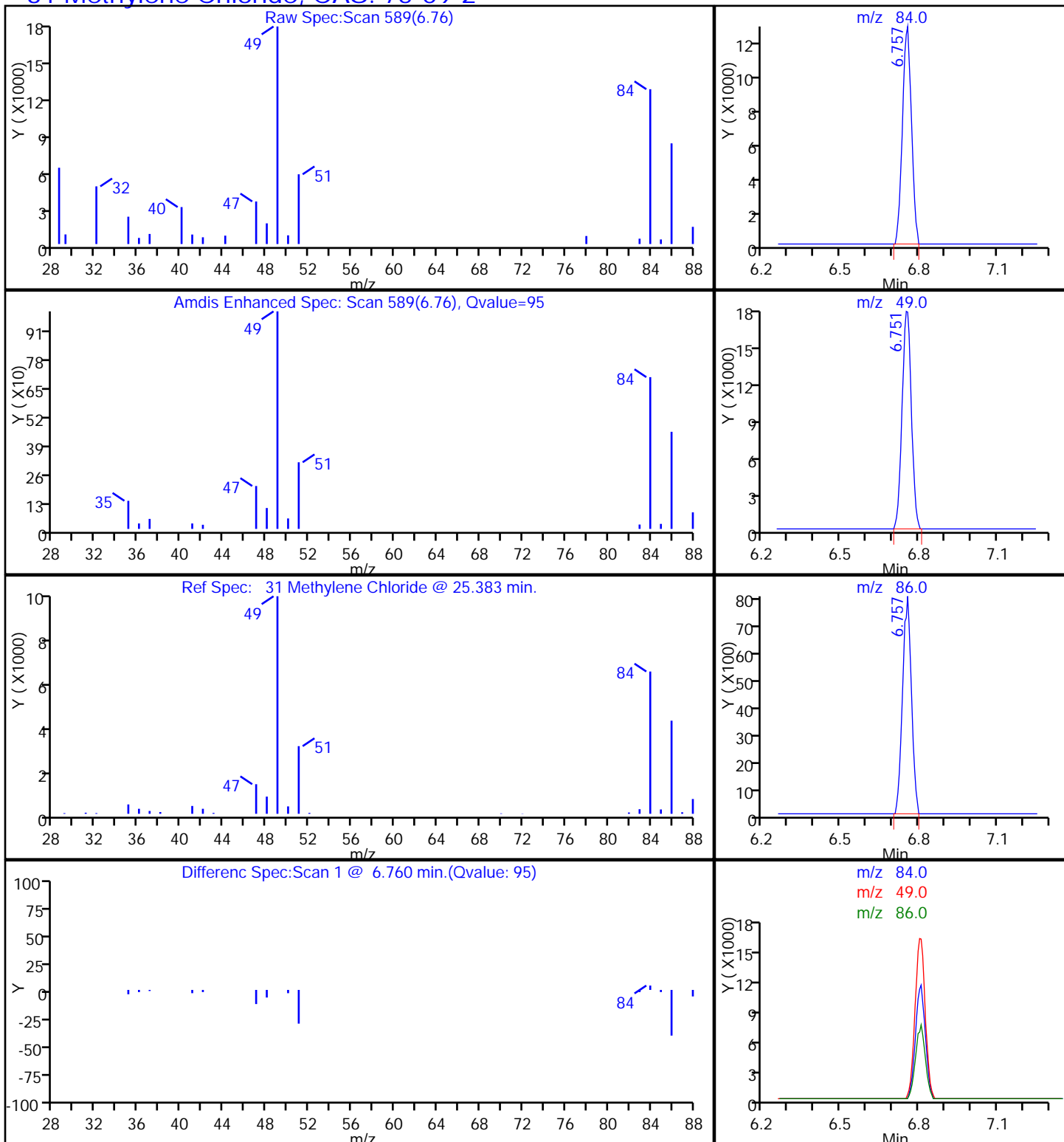
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

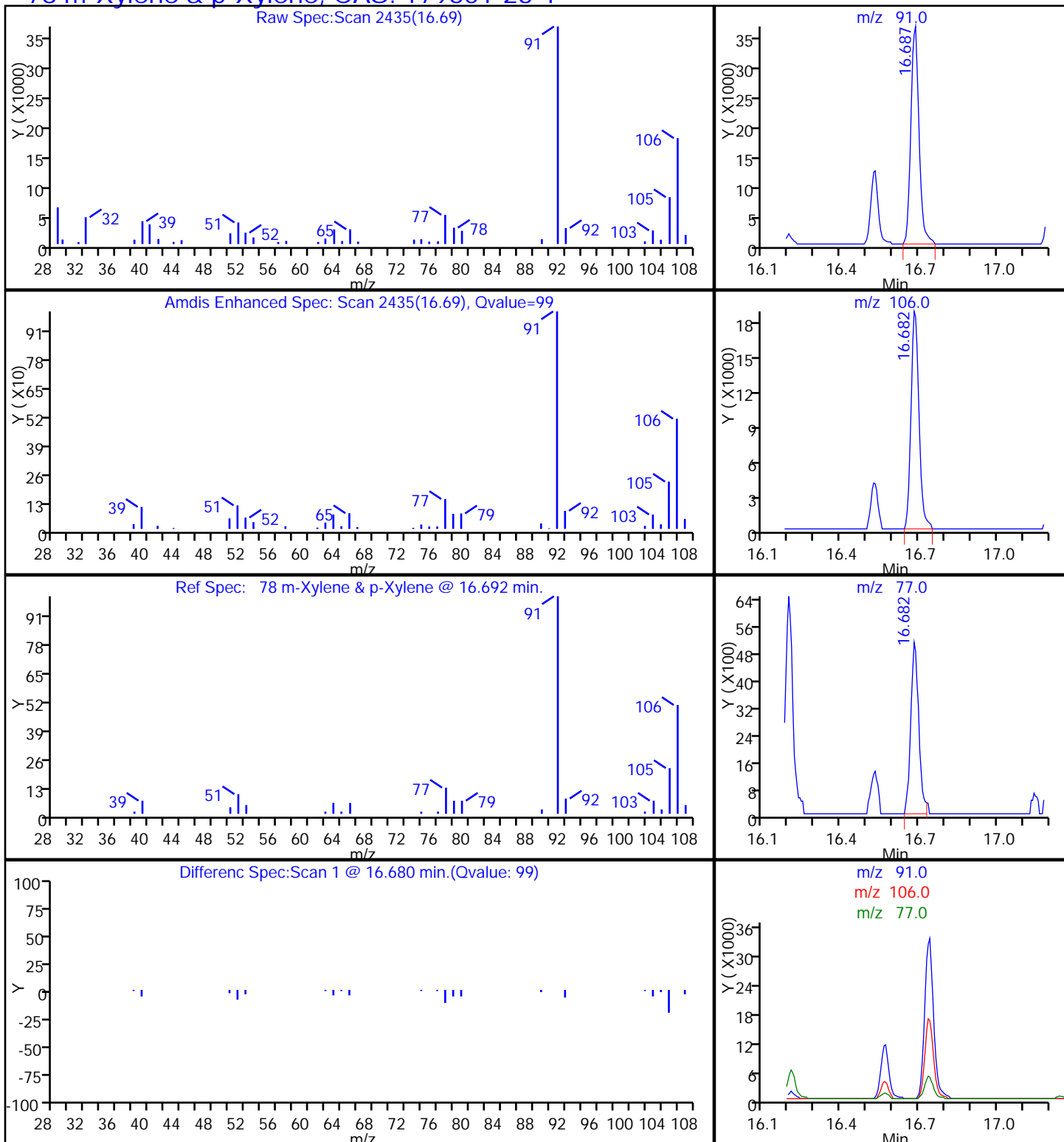
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

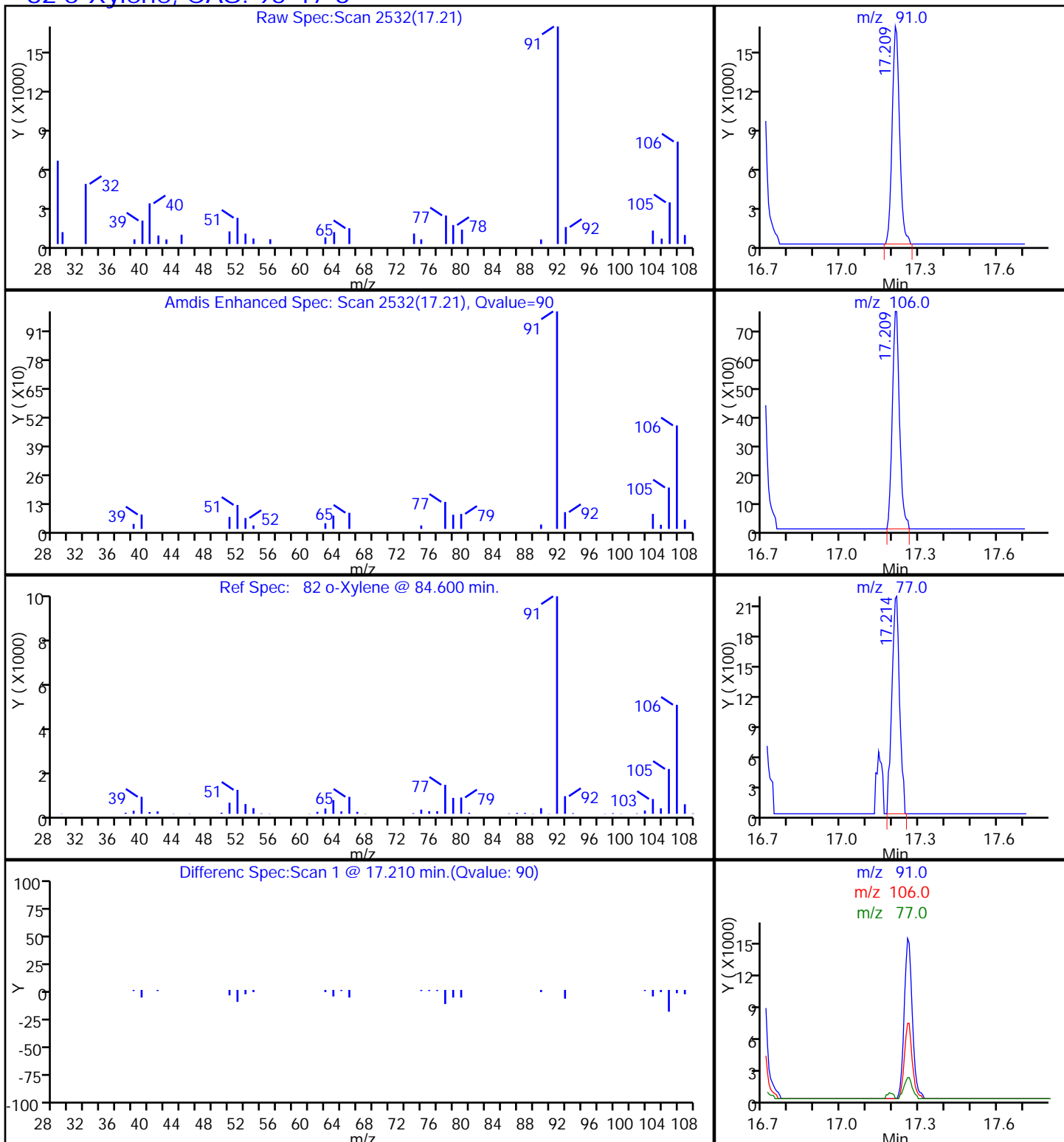
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

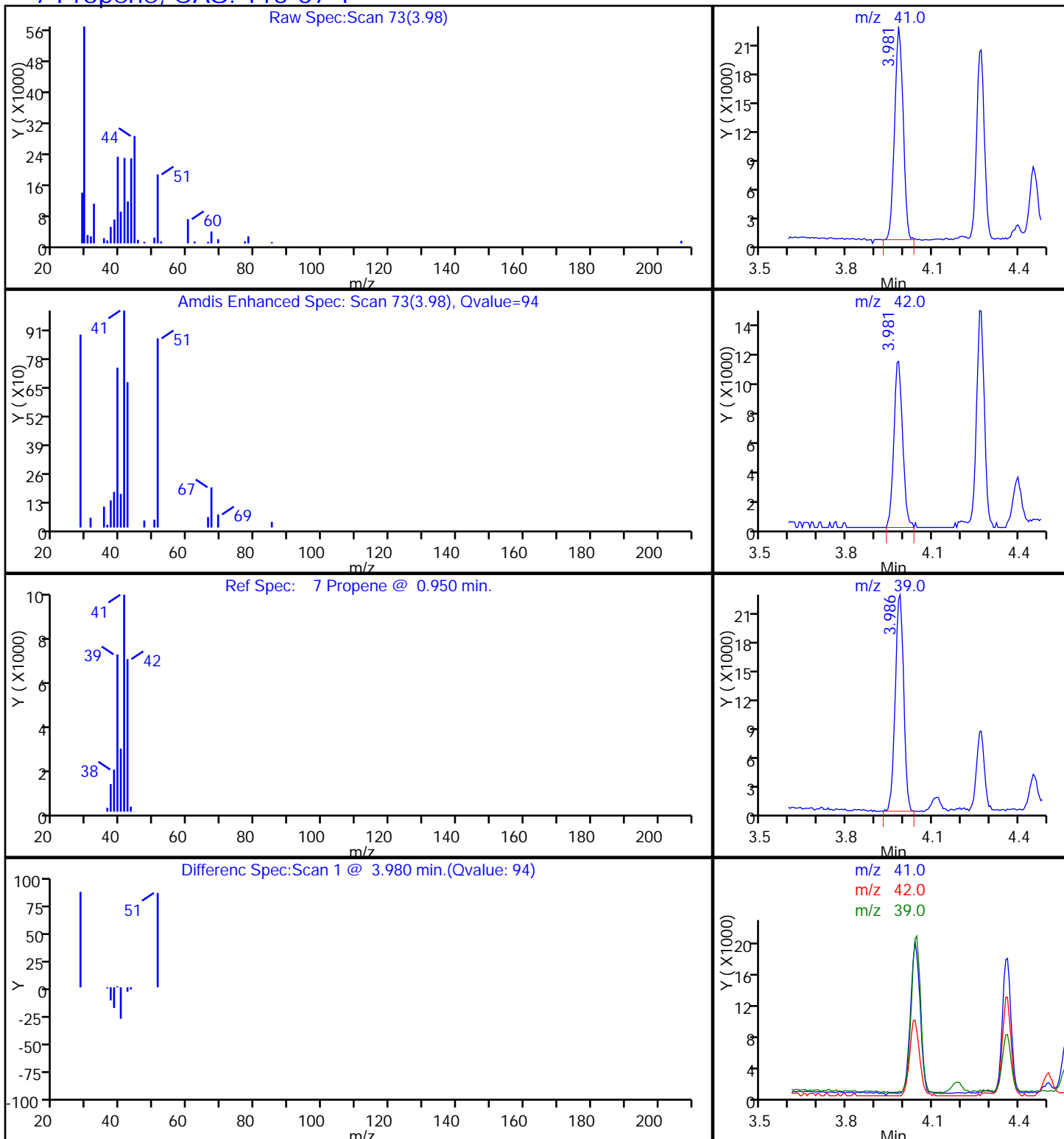
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

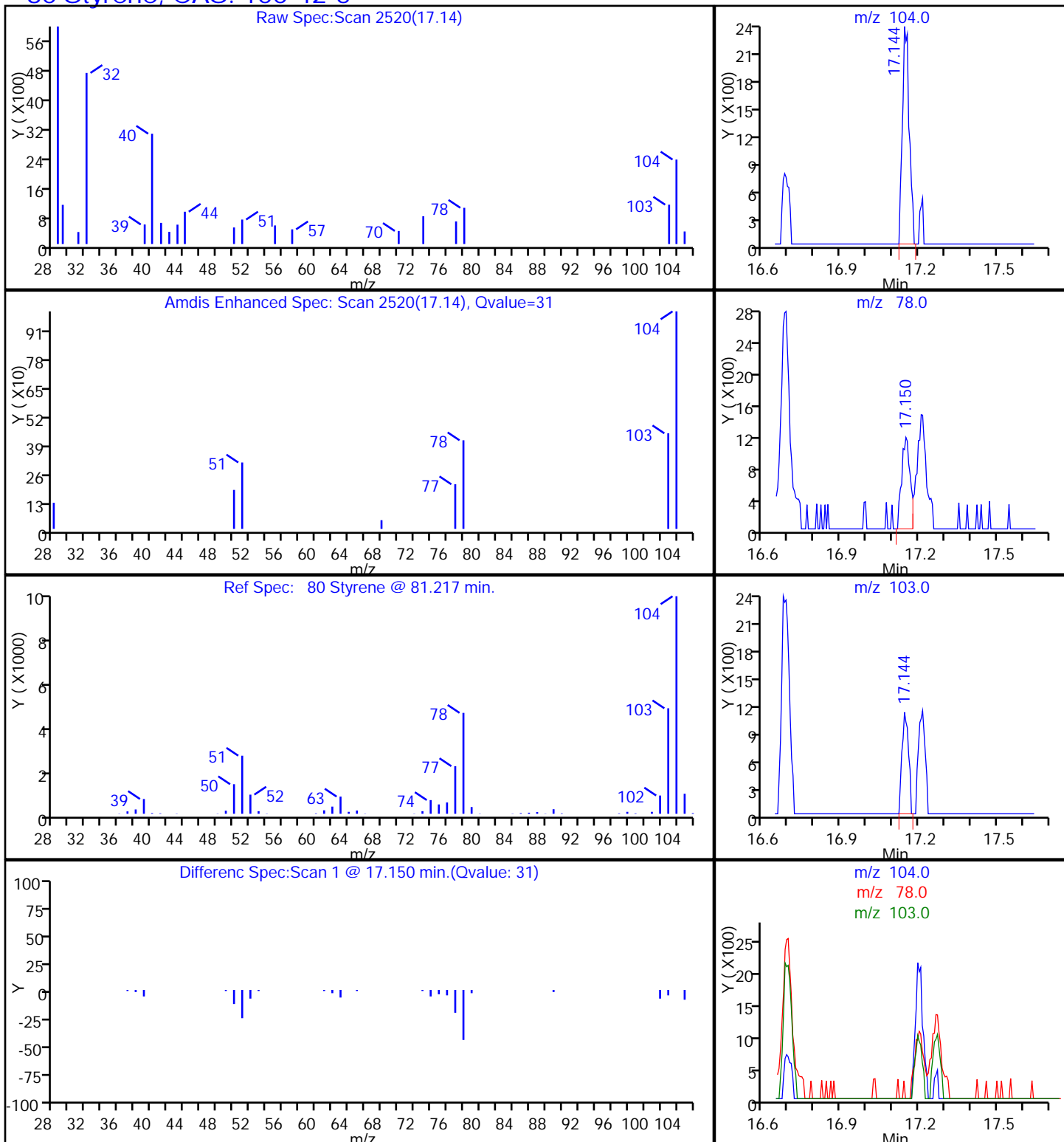
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

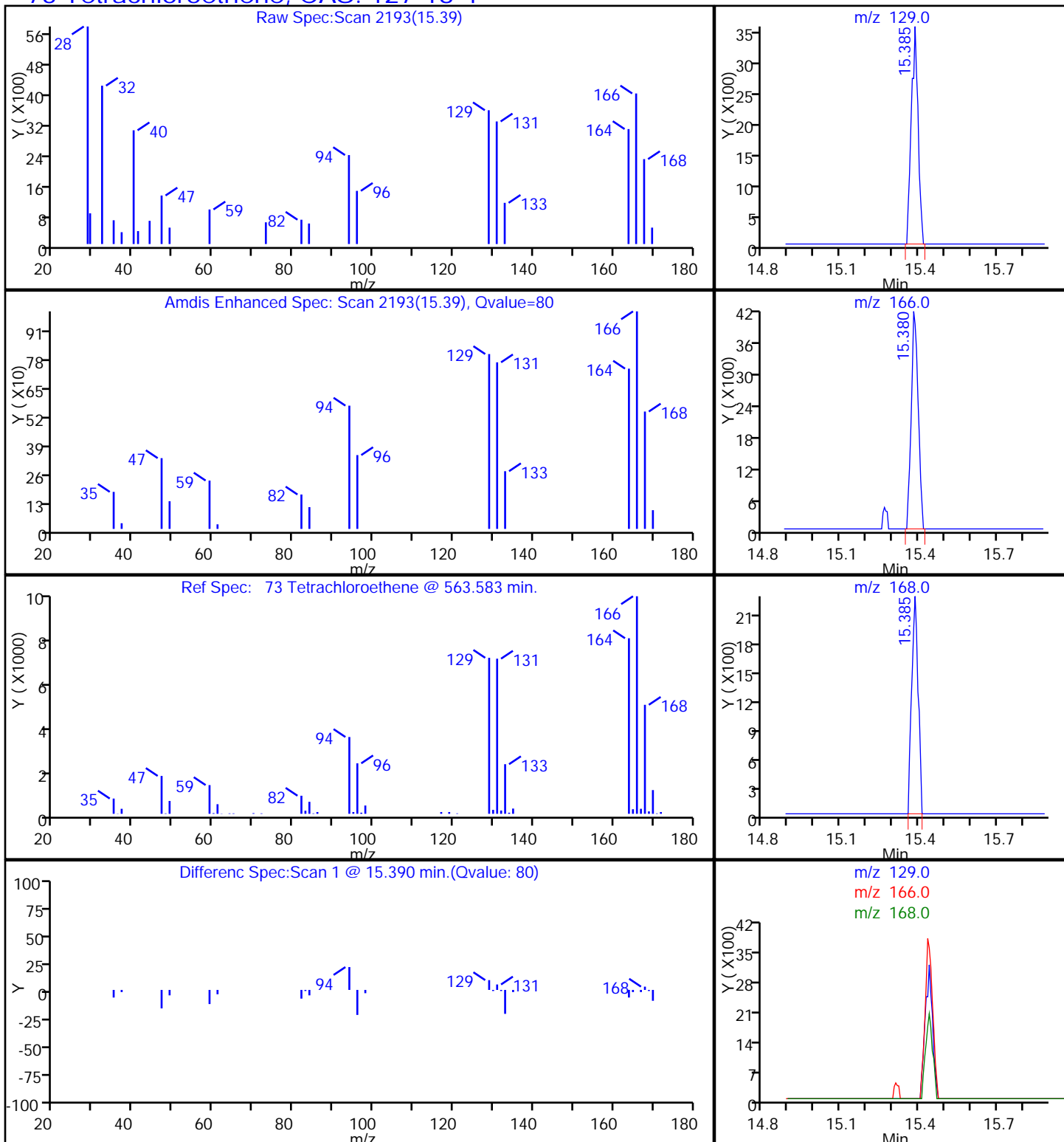
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

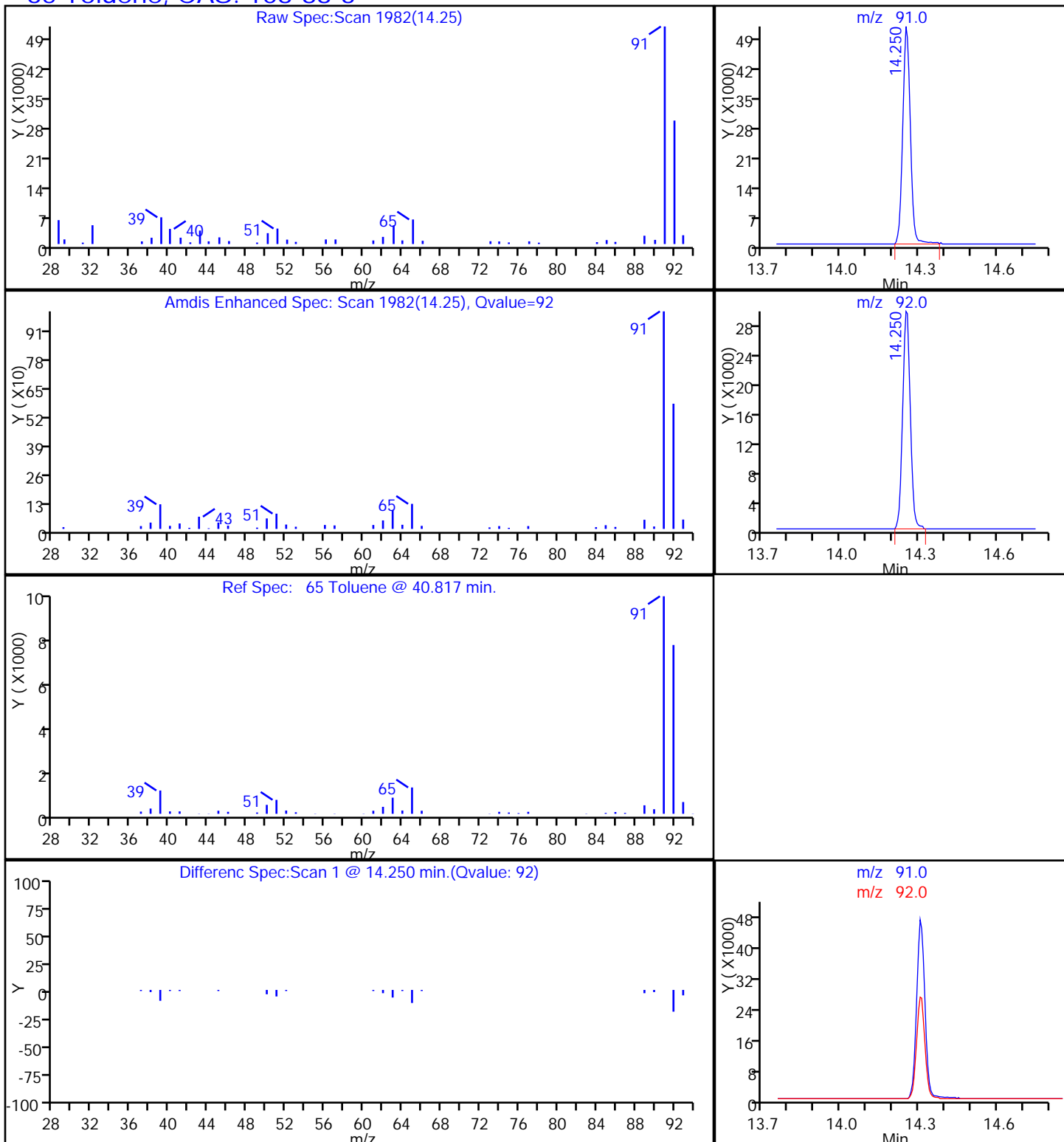
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P211.D

Injection Date: 19-Mar-2014 05:07:30

Instrument ID: MJ

Lims ID: 140-1063-A-9

Lab Sample ID: 140-1063-9

Client ID: PCV-IA3-B7

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

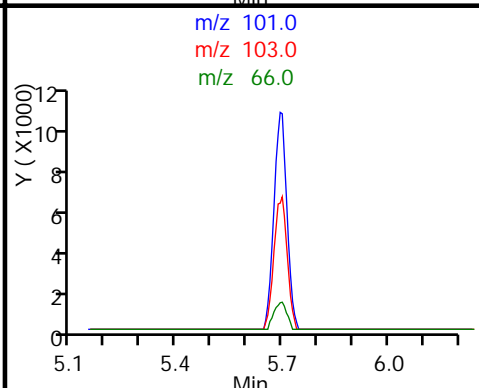
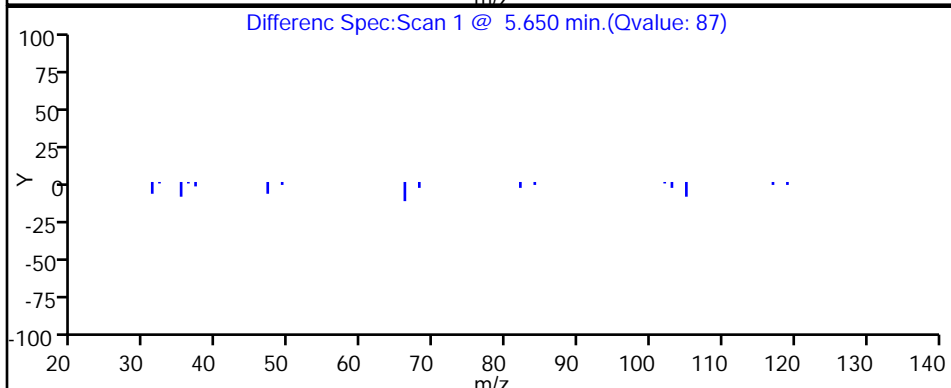
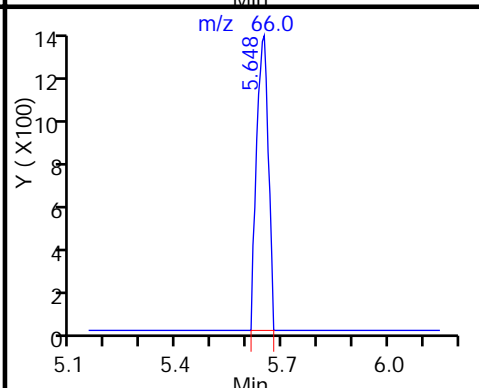
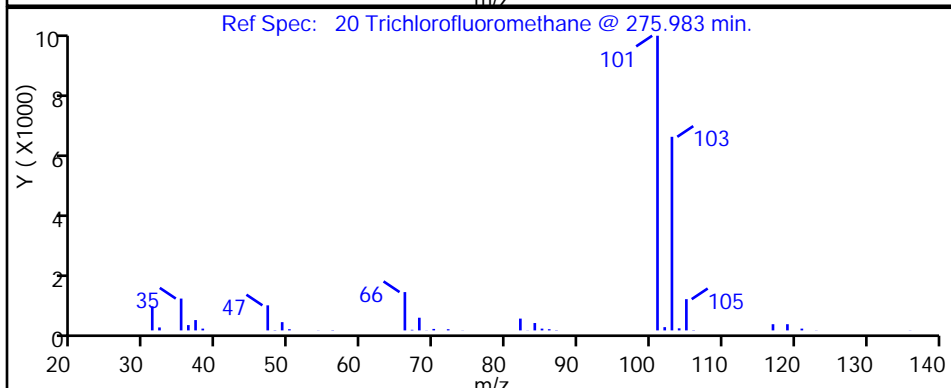
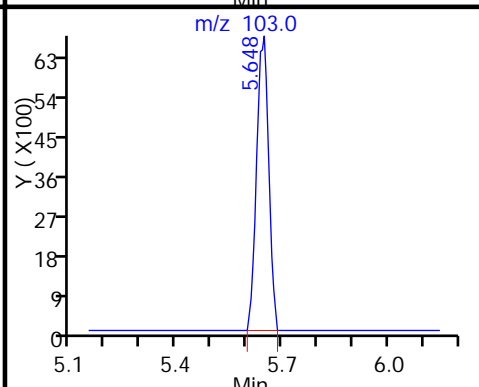
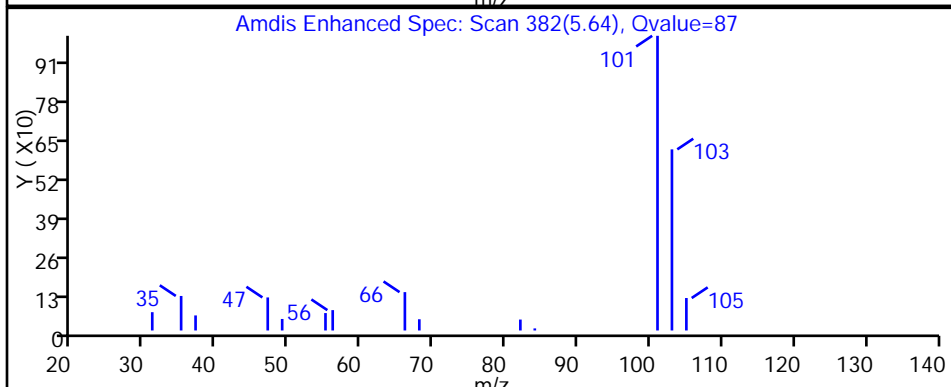
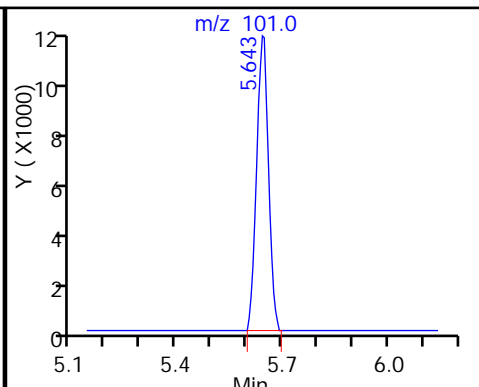
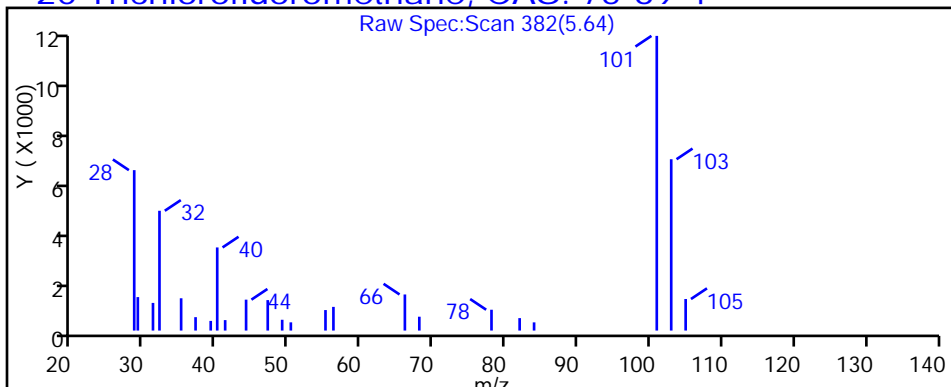
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10
 Matrix: Air Lab File ID: JC18P212.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:34
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.16	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.096	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.17	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.1		1.0	0.20
591-78-6	2-Hexanone	100.20	0.099	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	2.5		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.40		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.17	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.34	J	0.50	0.045
67-64-1	Acetone	58.08	8.5		5.0	1.4
71-43-2	Benzene	78.11	0.39		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10
 Matrix: Air Lab File ID: JC18P212.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:34
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.14	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.57		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.13	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	160		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.21		0.20	0.068
142-82-5	Heptane	100.21	0.19	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.50		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.7		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.60		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.79		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.32		0.20	0.061
115-07-1	Propene	42.08	5.1	cn	0.50	0.077
100-42-5	Styrene	104.15	0.070	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.20		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.2		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10
 Matrix: Air Lab File ID: JC18P212.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:34
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 06:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10
 Matrix: Air Lab File ID: JC18P212.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:34
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.79	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.58	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.77	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	3.3		2.9	0.59
591-78-6	2-Hexanone	100.20	0.41	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	7.3		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.4		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.85	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.4	J	2.0	0.18
67-64-1	Acetone	58.08	20		12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10
 Matrix: Air Lab File ID: JC18P212.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:34
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.67	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.43	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	290		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.90		0.87	0.30
142-82-5	Heptane	100.21	0.77	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.8		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	21		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	2.1		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.4		0.87	0.26
115-07-1	Propene	42.08	8.8	cn	0.86	0.13
100-42-5	Styrene	104.15	0.30	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.3		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.5		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B11 Lab Sample ID: 140-1063-10
 Matrix: Air Lab File ID: JC18P212.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:34
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 06:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D
 Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10
 Client ID: PCV-IA1-B11
 Sample Type: Client
 Inject. Date: 19-Mar-2014 06:01:30 ALS Bottle#: 12 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-10
 Misc. Info.: J031814,TO15,,140-0000527-018
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:57:17 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: liul

Date: 20-Mar-2014 14:57:17

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.383	9.388	-0.005	90	356594	4.00	
* 2 1,4-Difluorobenzene	114	11.535	11.539	-0.004	94	1636233	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.199	16.198	0.001	86	1357067	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.818	17.817	0.001	91	900147	3.75	
7 Propene	41	3.987	3.971	0.016	88	222412	2.03	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	62252	0.1762	
9 Chloromethane	52	4.235	4.229	0.006	97	9179	0.2288	M
17 Ethanol	31	5.122	5.116	0.006	94	1778110	62.1	
19 2-Methylbutane	43	5.407	5.407	0.0	93	149083	0.9844	
20 Trichlorofluoromethane	101	5.644	5.644	0.0	88	26808	0.0864	
23 Acetone	58	5.763	5.767	-0.005	92	171710	3.39	
24 Isopropyl alcohol	45	5.854	5.848	0.006	98	467804	3.49	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.580	6.580	0.0	69	5561	0.0259	
31 Methylene Chloride	84	6.752	6.757	-0.005	90	22759	0.2386	
35 2-Methylpentane	43	7.624	7.623	0.001	94	44261	0.1609	
39 2-Butanone (MEK)	72	8.597	8.586	0.011	96	15162	0.4492	
40 Hexane	56	8.635	8.635	0.0	91	19078	0.1990	
43 Chloroform	83	9.394	9.393	0.001	15	11449	0.0551	
48 Benzene	78	11.024	11.023	0.001	94	43896	0.1564	
49 Cyclohexane	69	11.034	11.034	0.0	41	2778	0.0501	
50 Carbon tetrachloride	117	11.045	11.050	-0.005	86	6606	0.0285	
53 Isooctane	57	11.766	11.760	0.006	90	31783	0.0663	
54 n-Heptane	71	12.116	12.120	-0.004	82	7500	0.0755	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	88	23444	0.1367	
65 Toluene	91	14.251	14.256	-0.005	93	119466	0.4745	
69 2-Hexanone	58	14.687	14.681	0.006	49	3275	0.0397	
73 Tetrachloroethene	129	15.381	15.386	-0.005	81	9201	0.0785	
76 Ethylbenzene	91	16.527	16.532	-0.005	81	22981	0.0826	
78 m-Xylene & p-Xylene	91	16.683	16.688	-0.005	99	70794	0.3155	
80 Styrene	104	17.151	17.150	0.001	51	4322	0.0280	
82 o-Xylene	91	17.210	17.215	-0.005	90	29352	0.1290	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
88 4-Ethyltoluene	105	18.458	18.447	0.011	54	20967	0.0694	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	80	16969	0.0644	
97 1,4-Dichlorobenzene	146	19.297	19.297	0.0	68	6220	0.0386	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Worklist Smp#: 18

Client ID: PCV-IA1-B11

Purge Vol: 500.000 mL

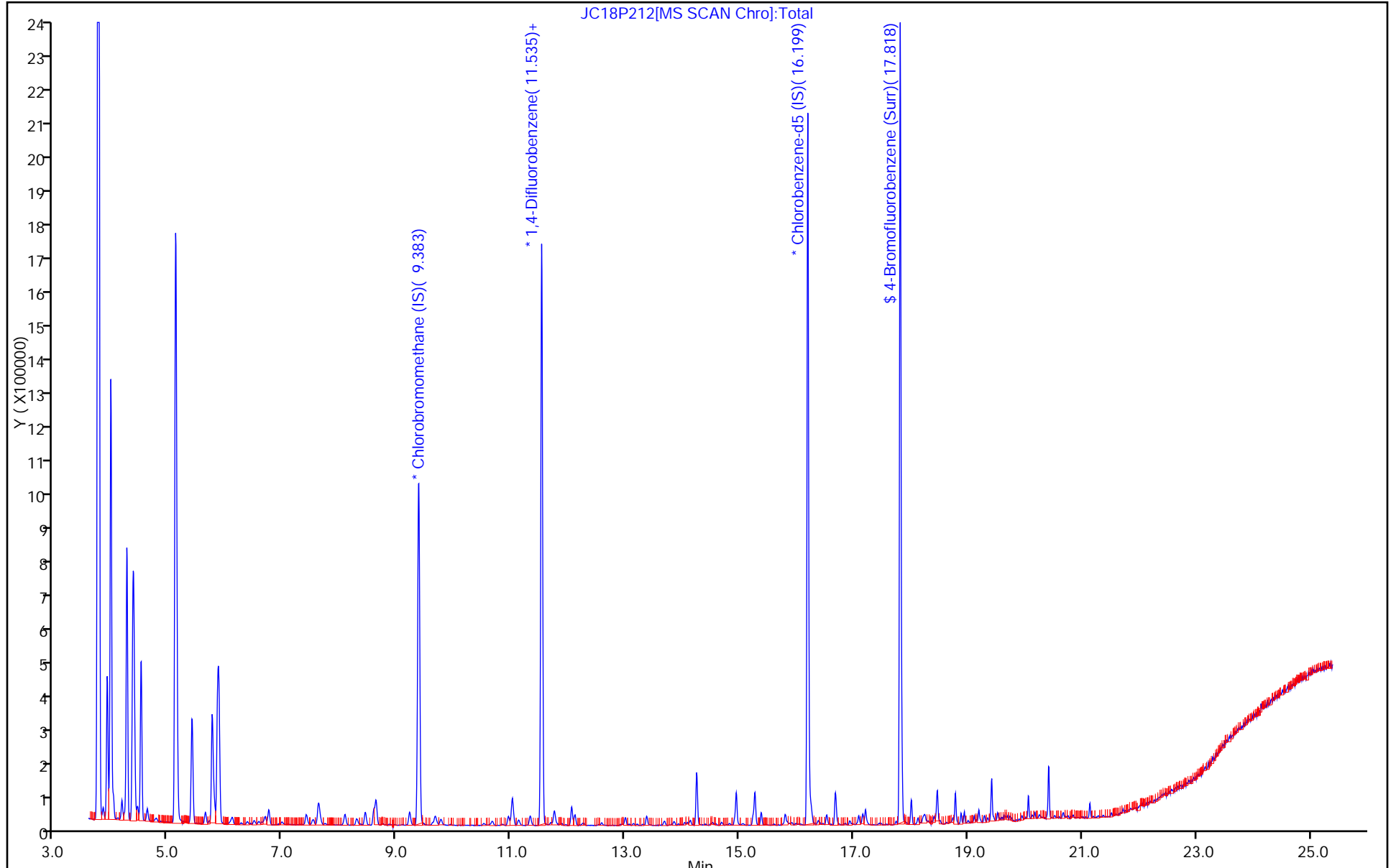
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

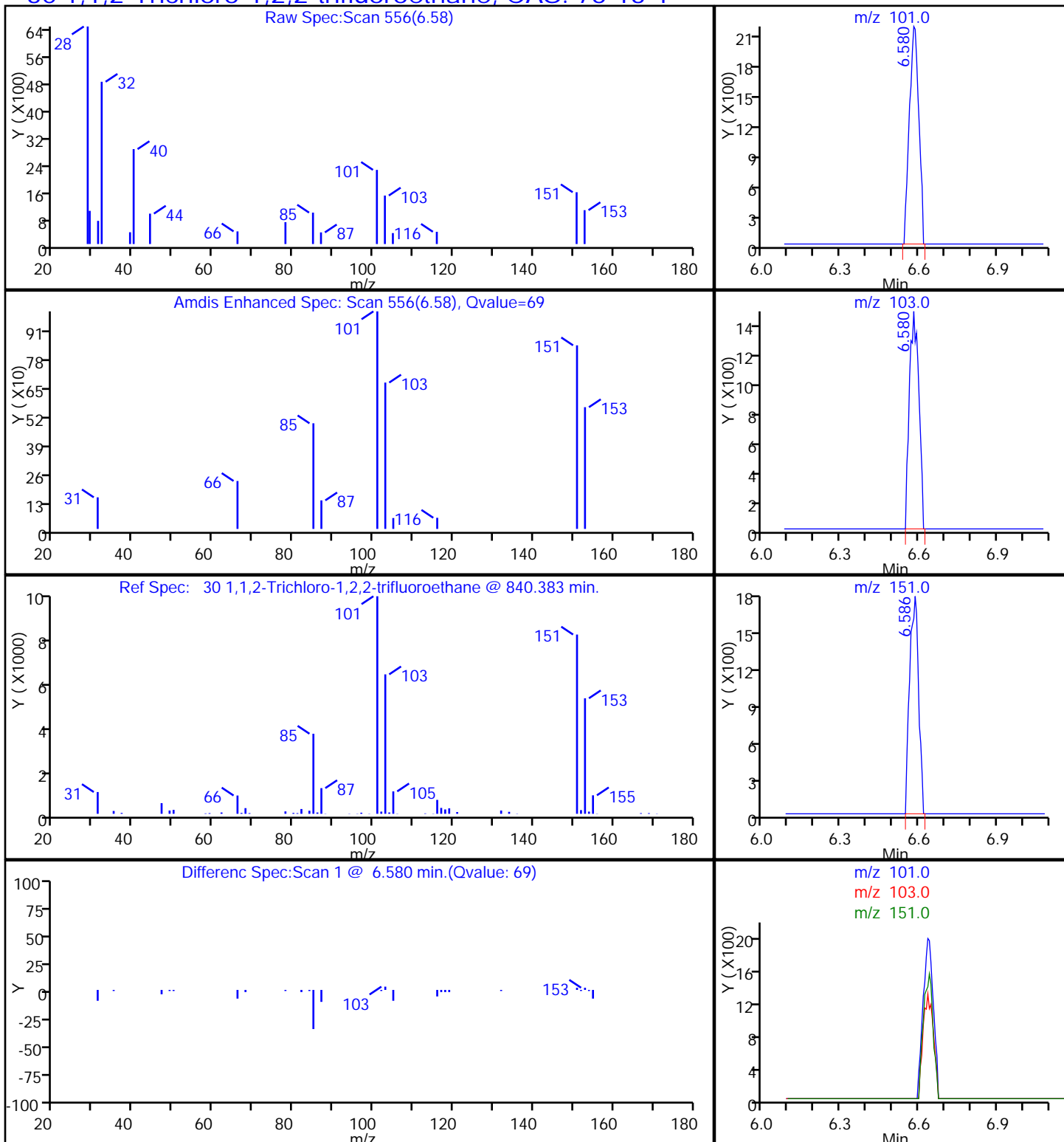
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

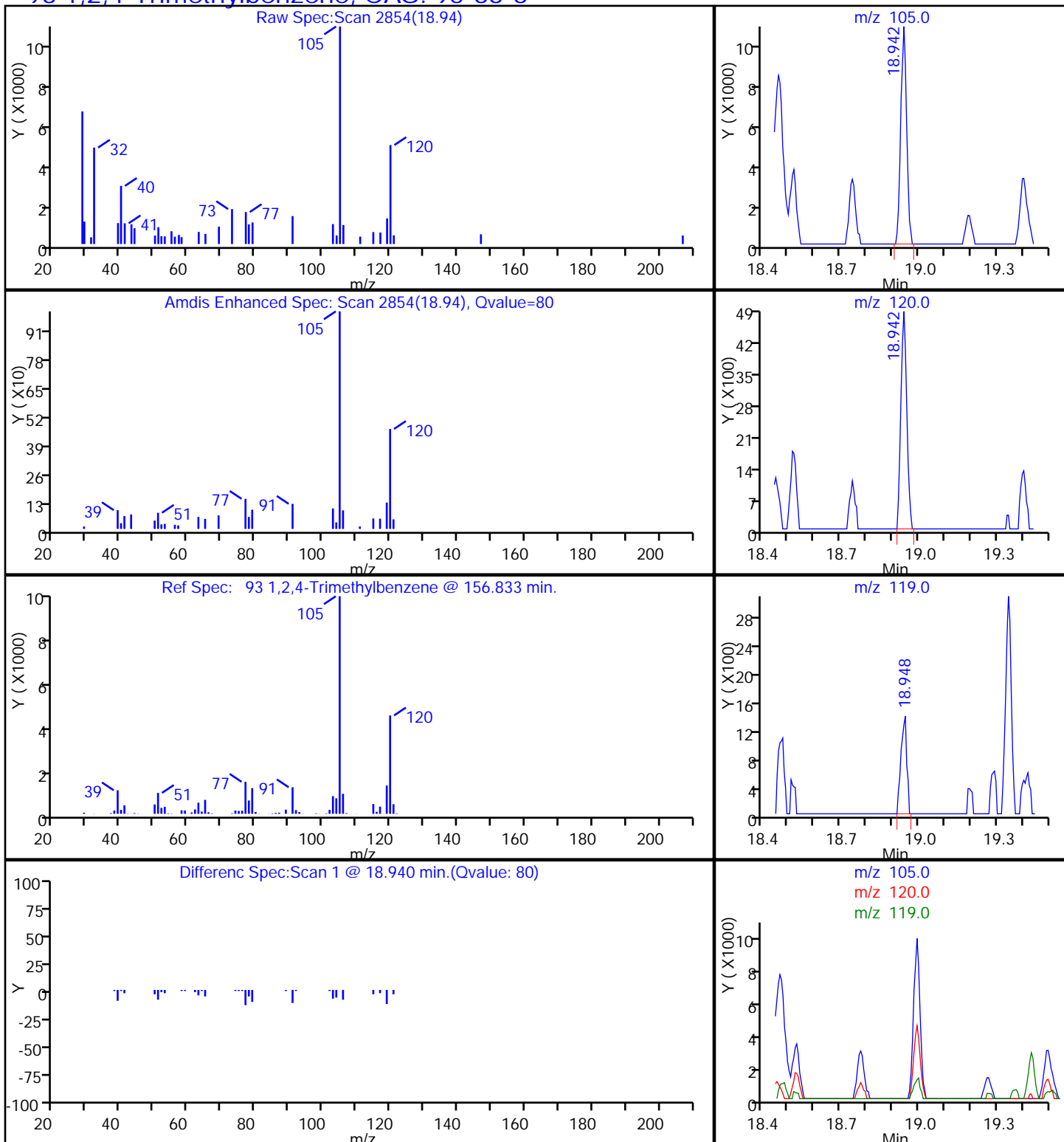
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

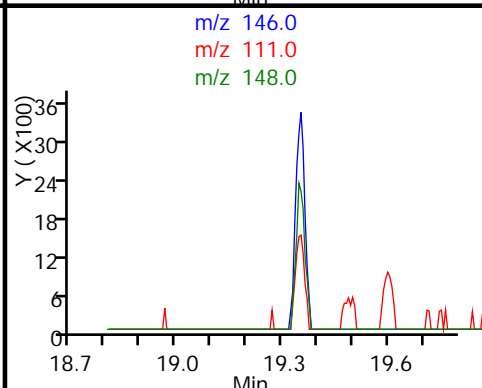
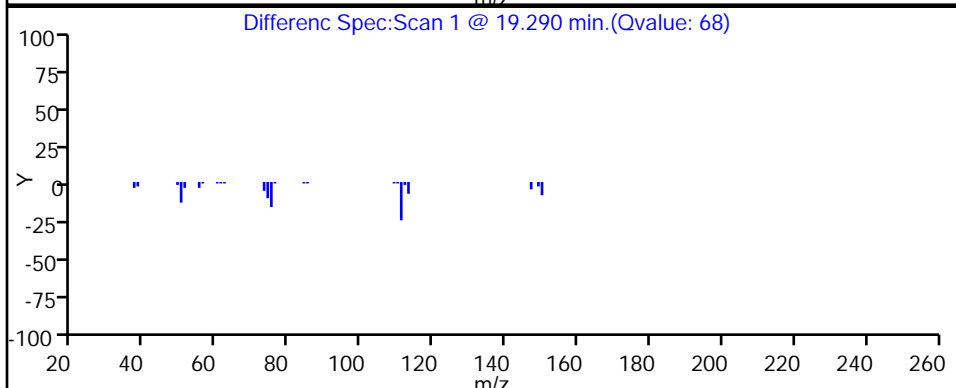
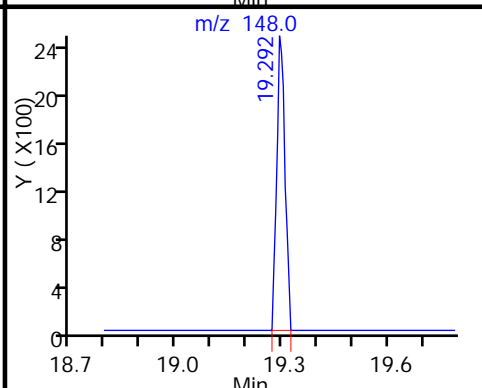
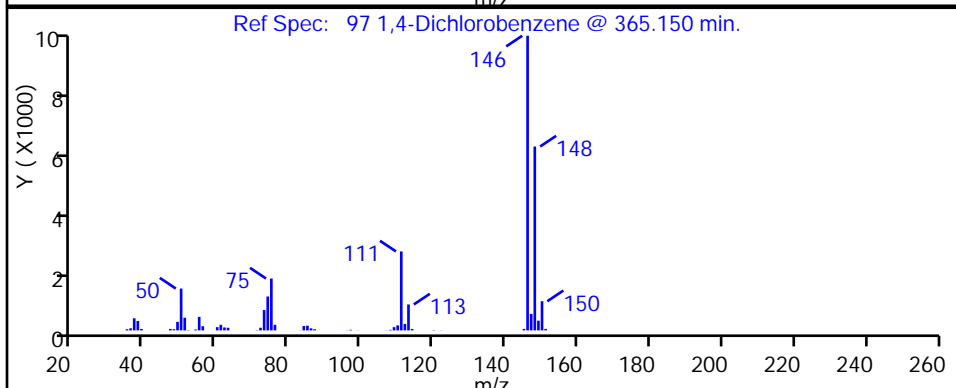
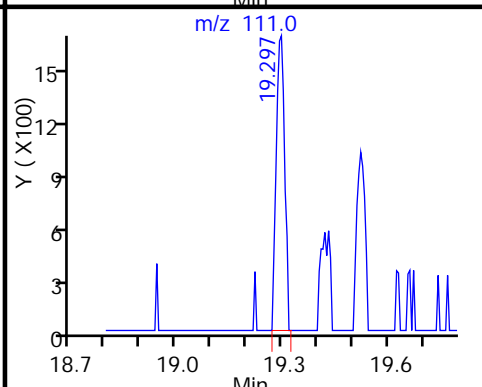
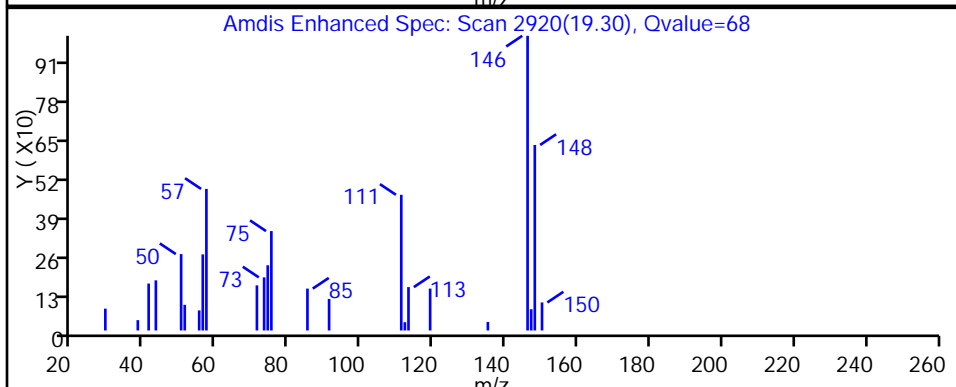
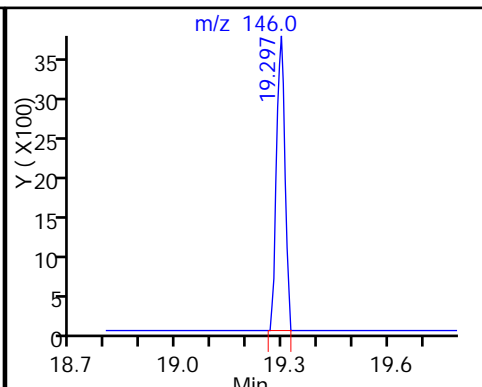
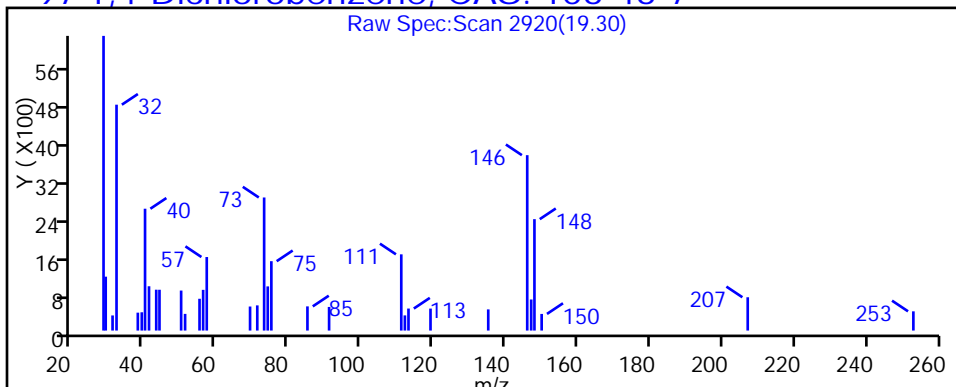
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

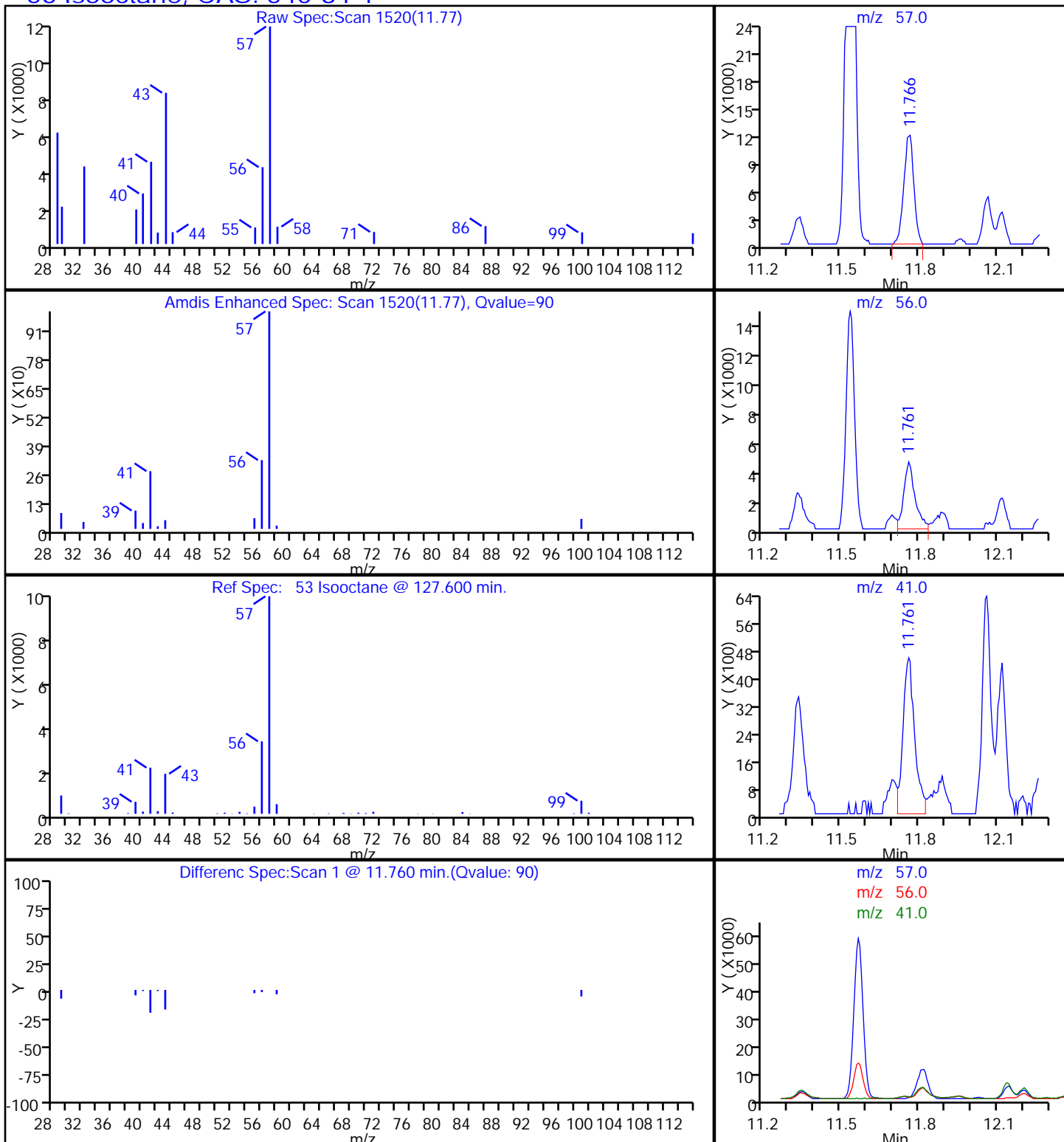
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

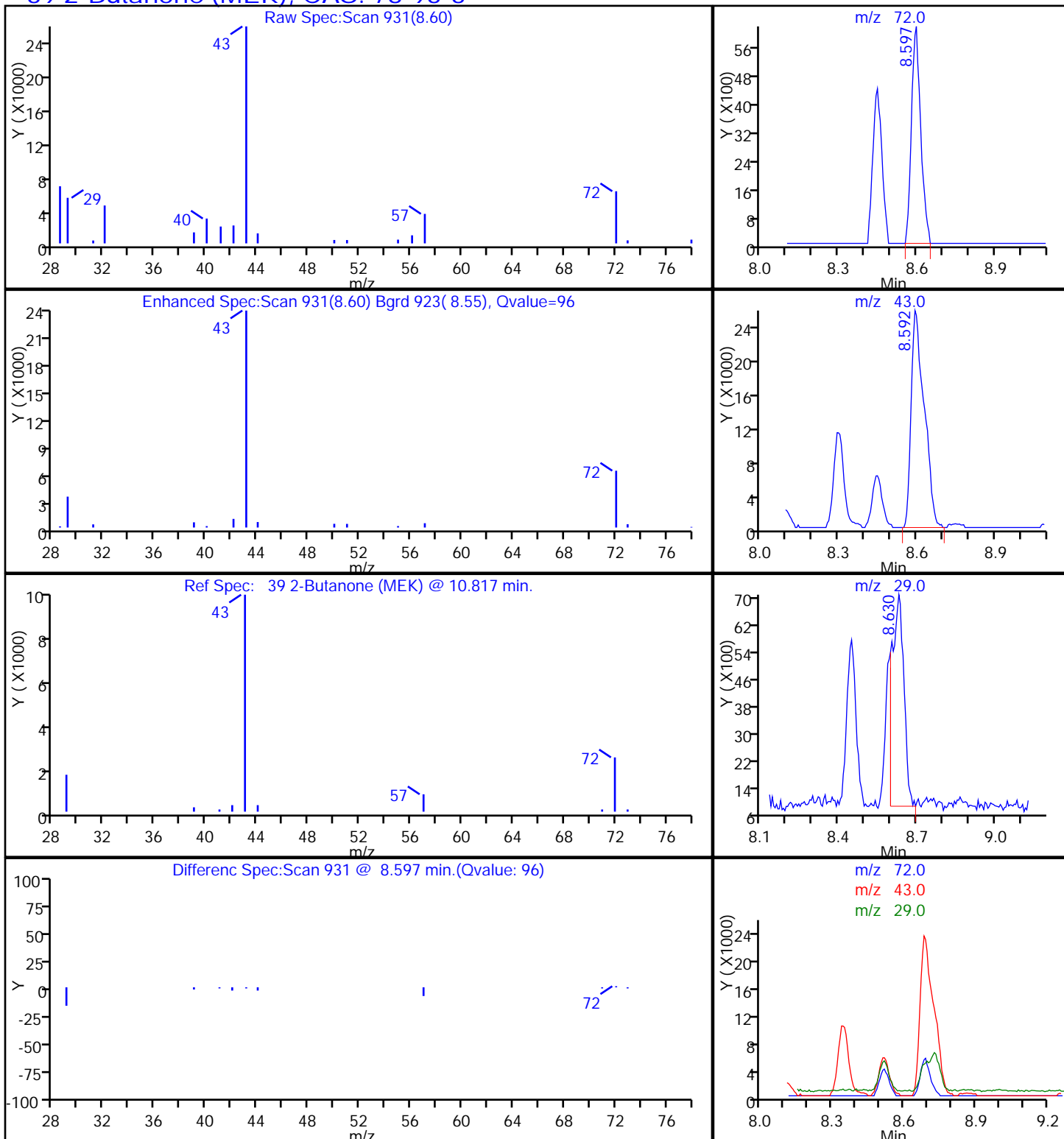
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

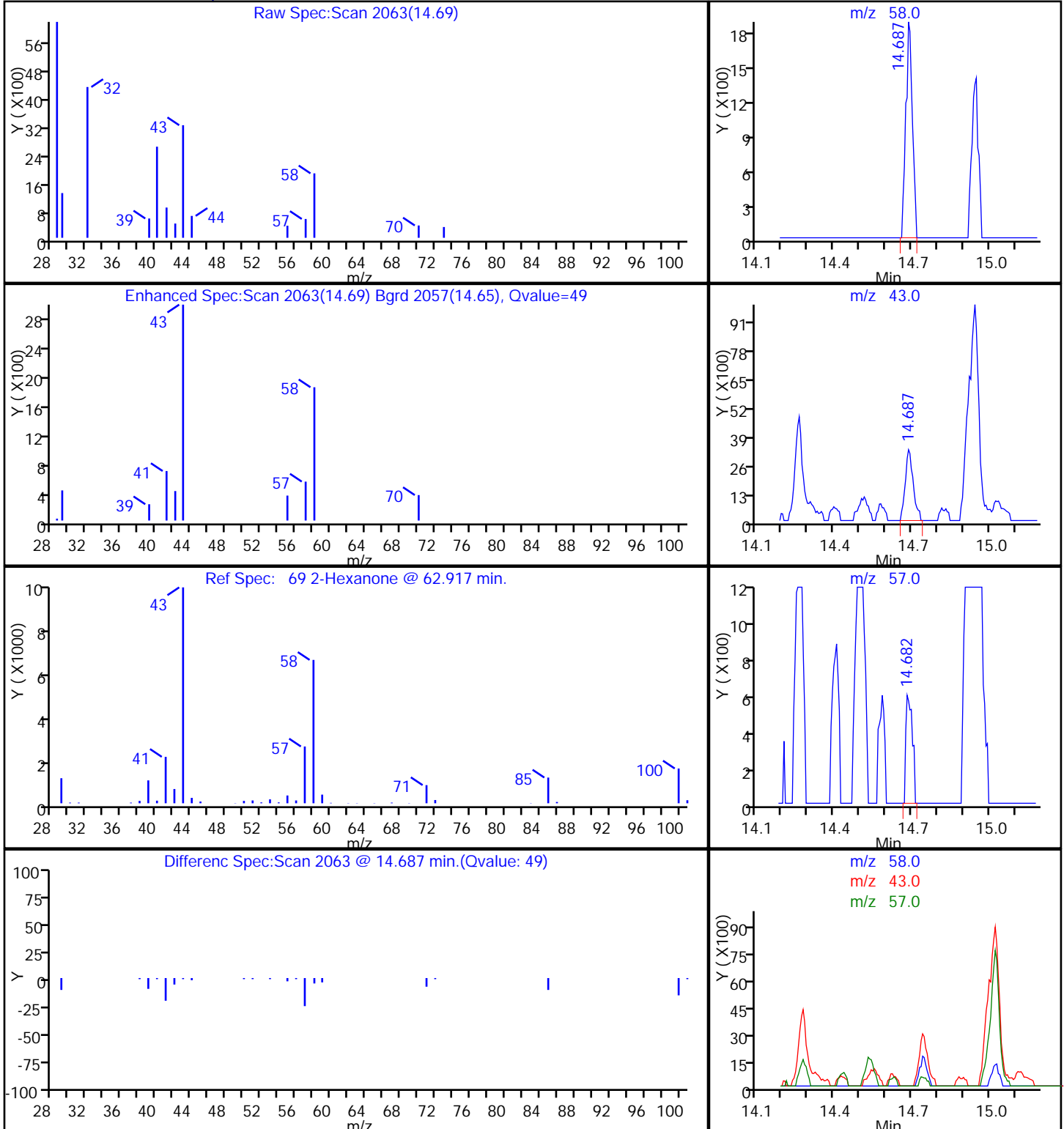
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

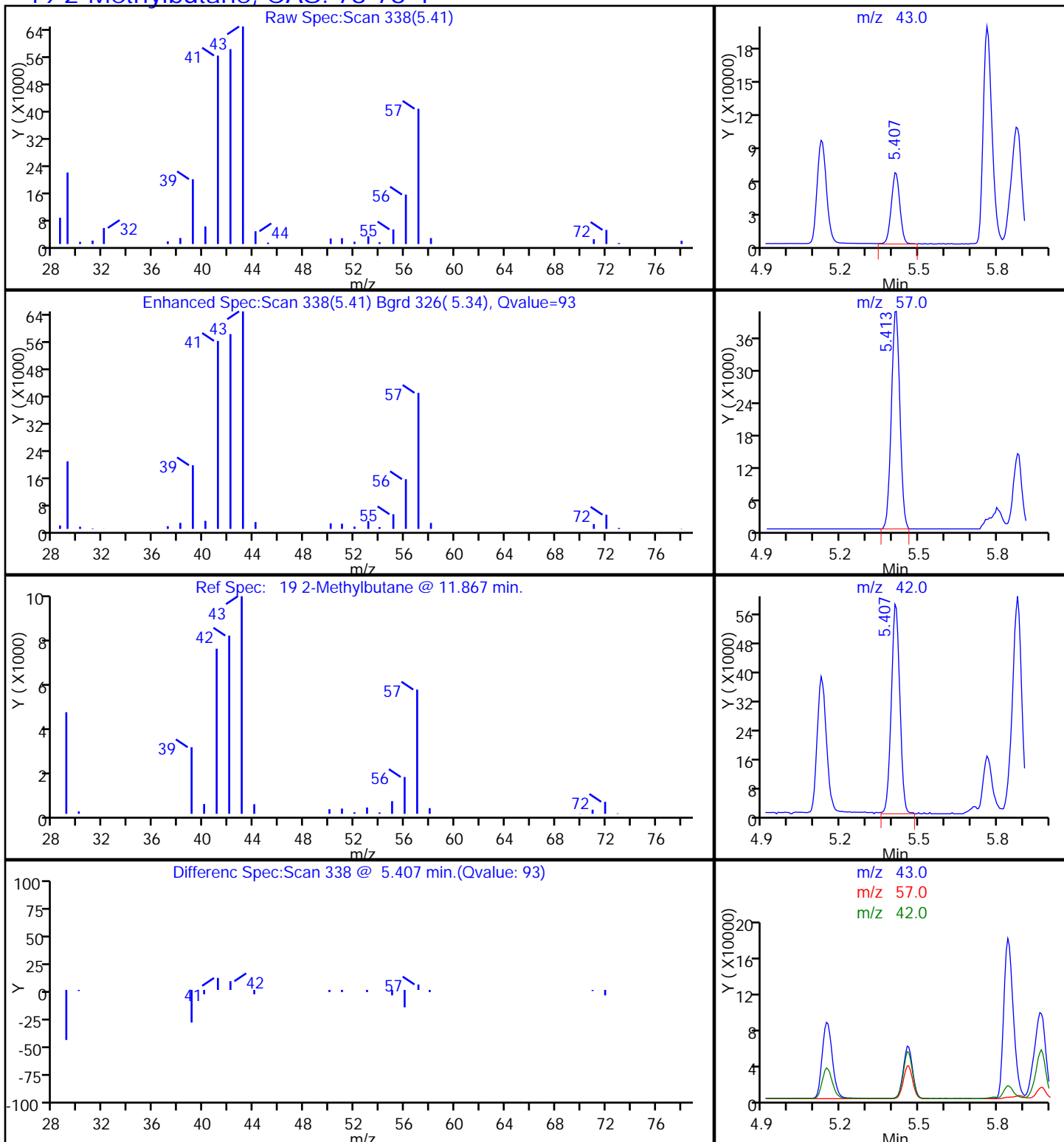
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

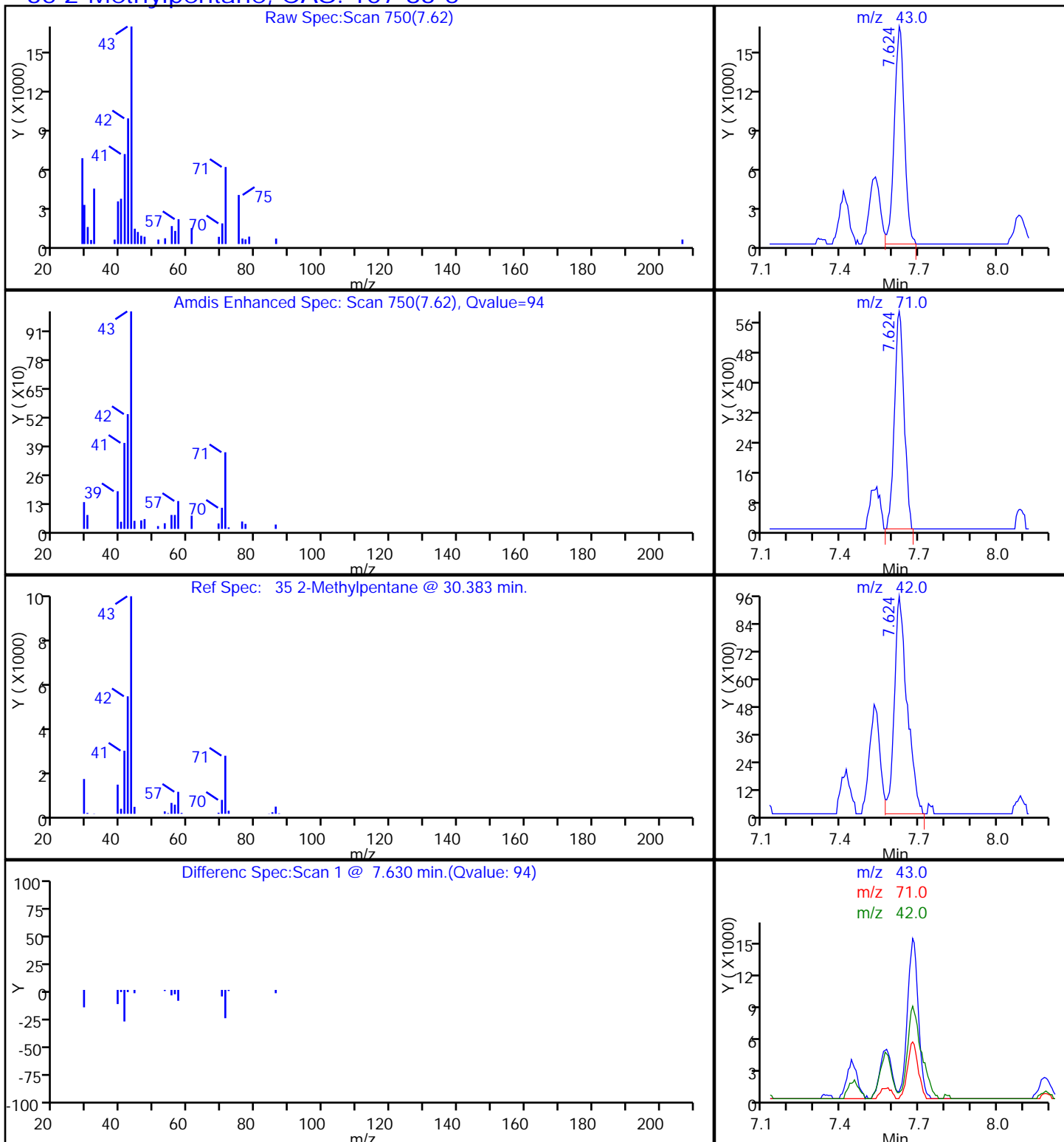
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

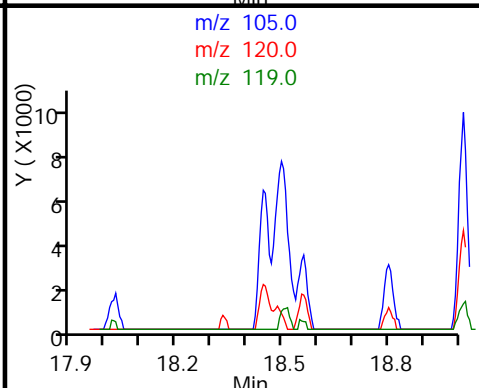
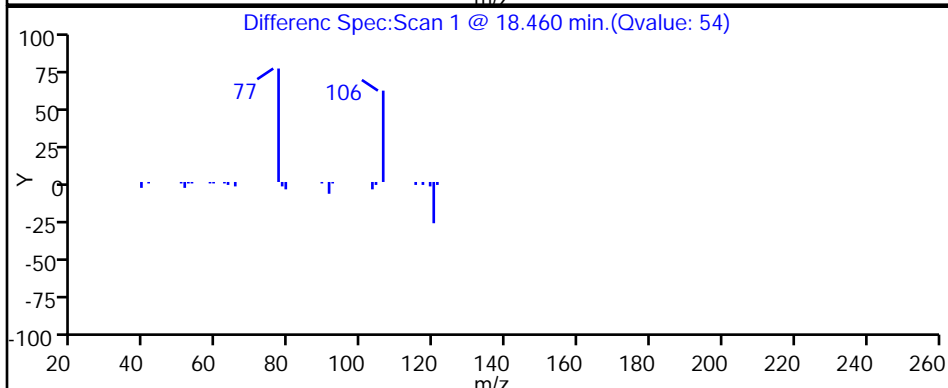
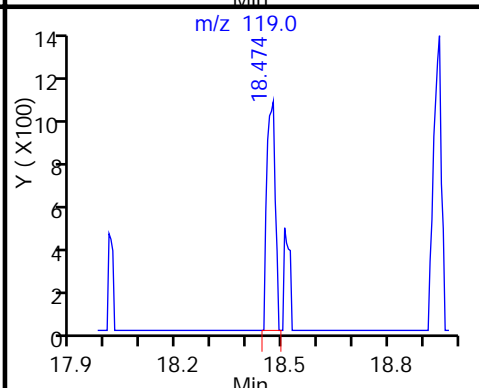
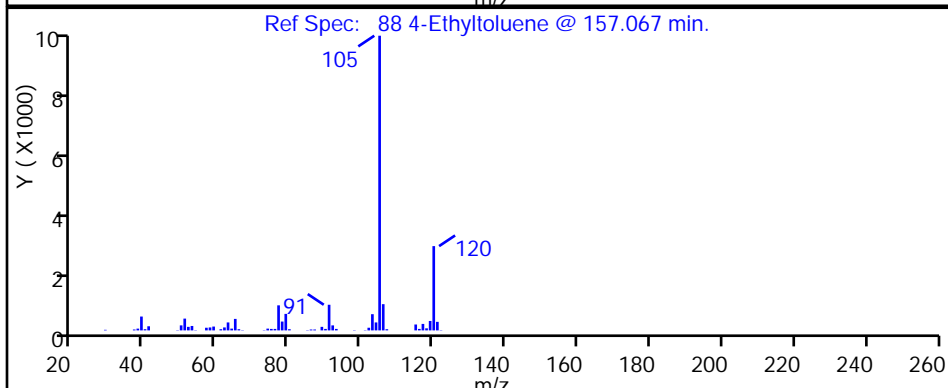
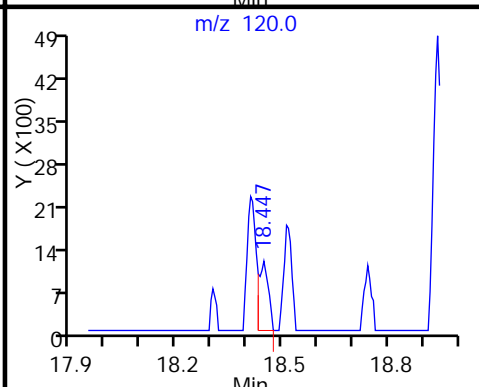
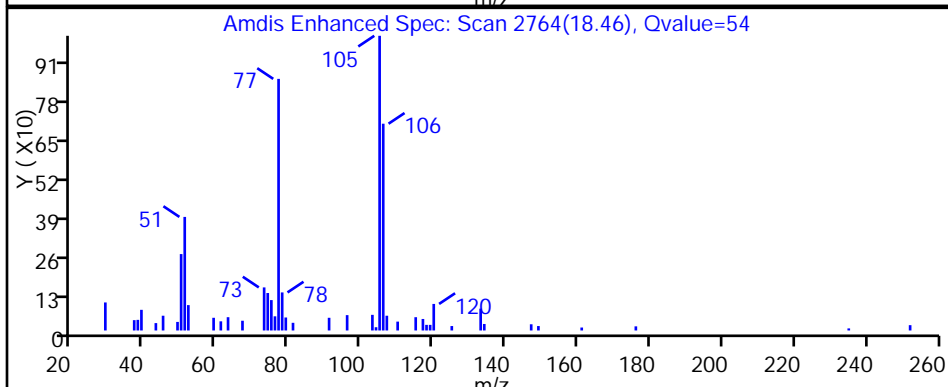
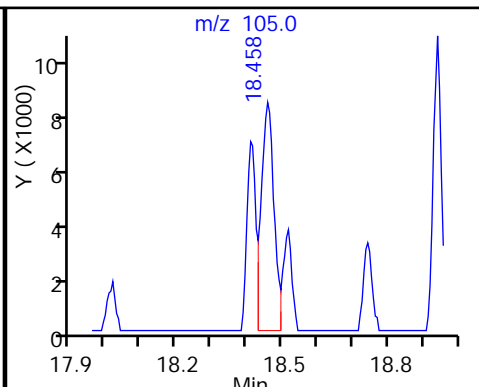
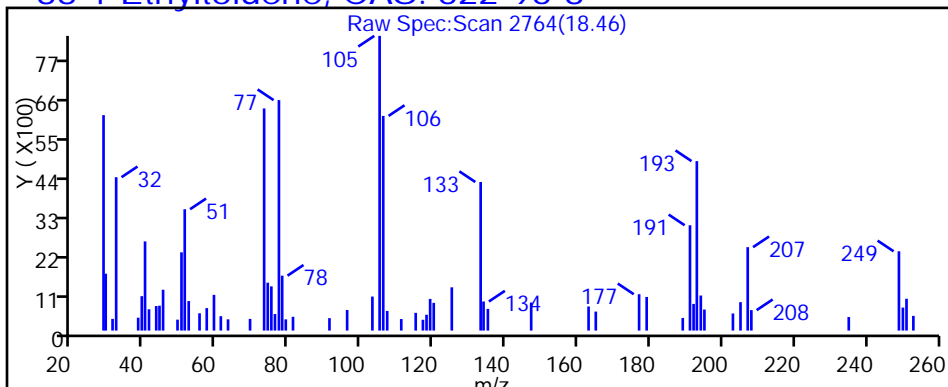
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

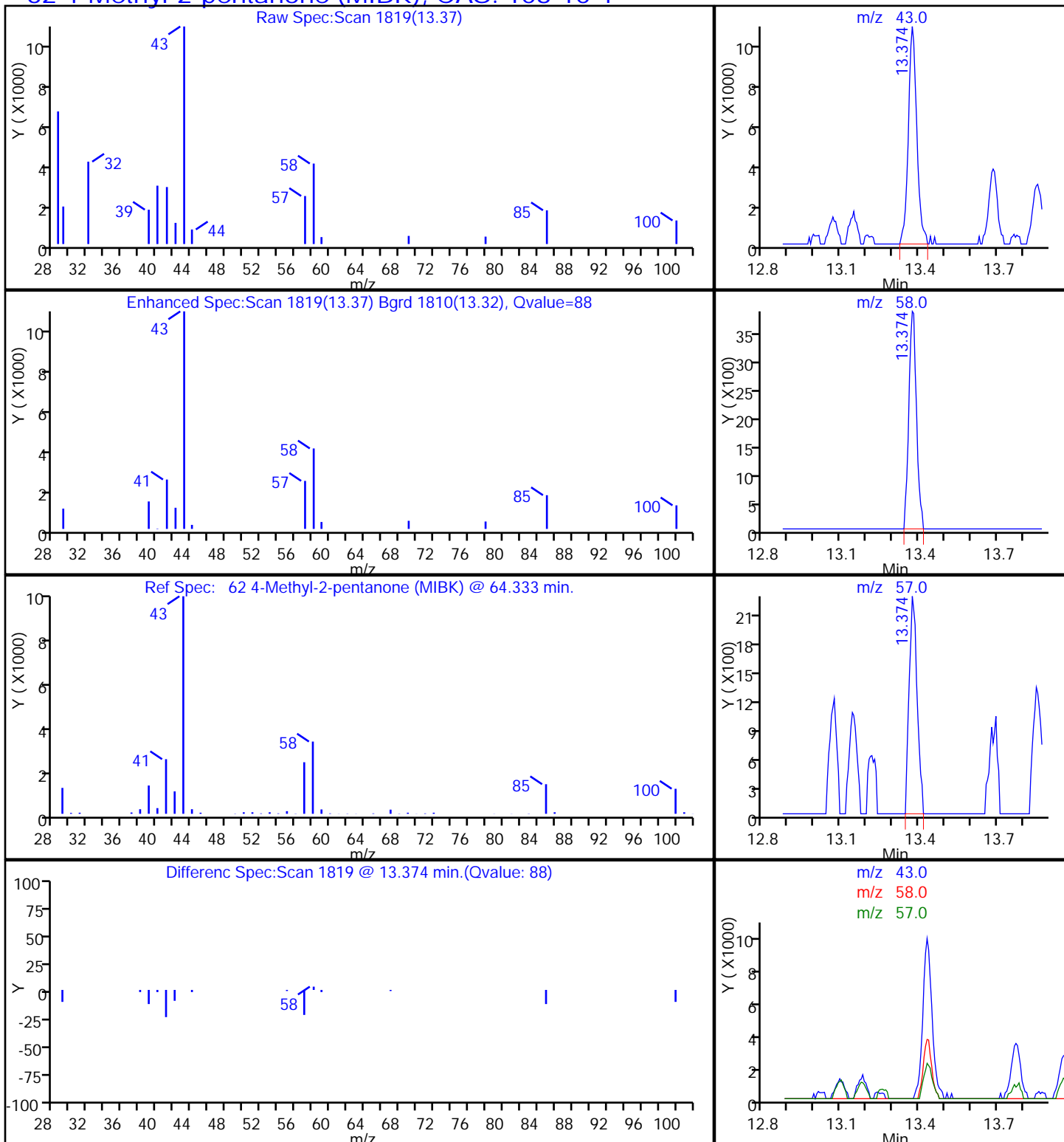
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

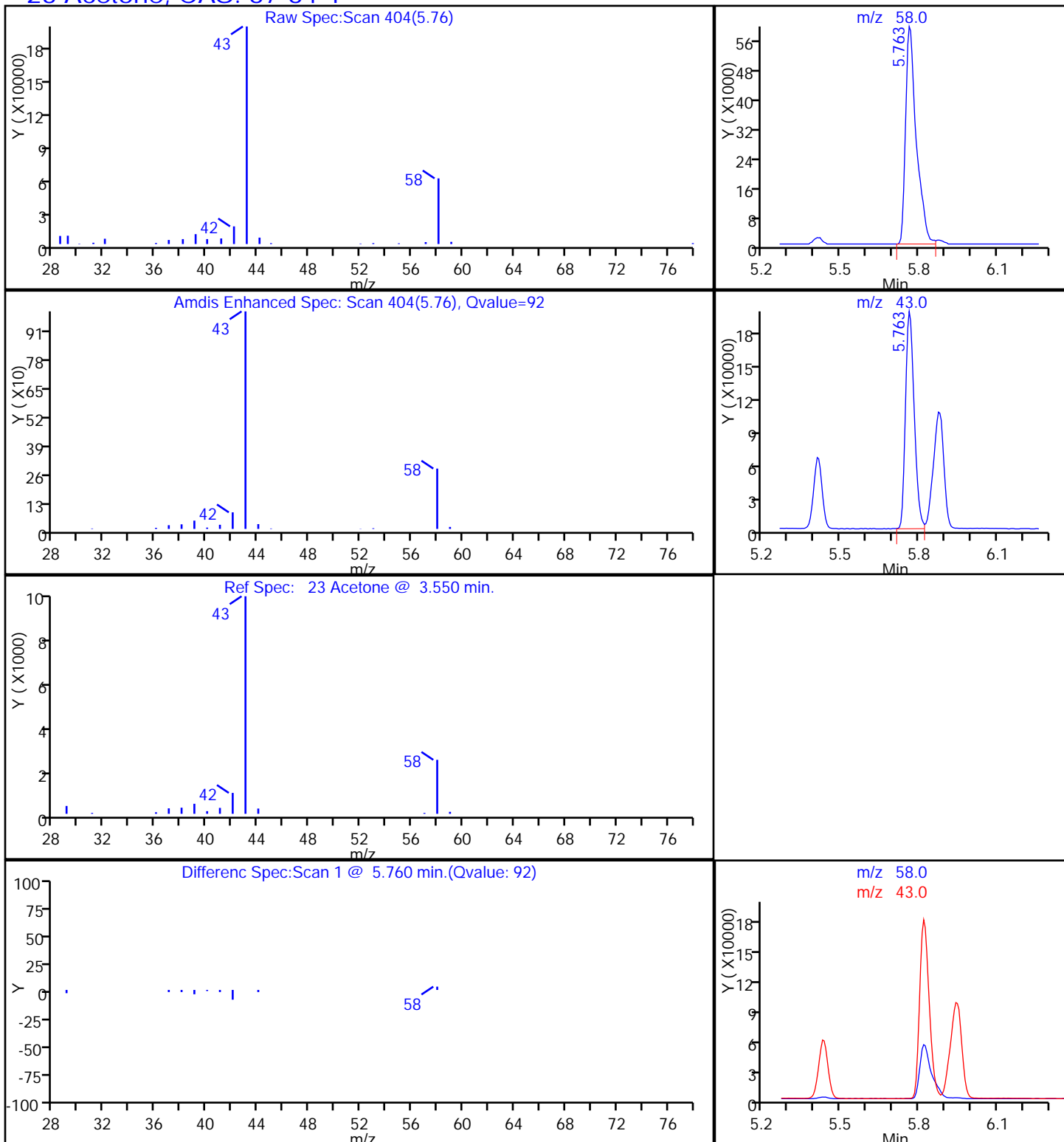
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

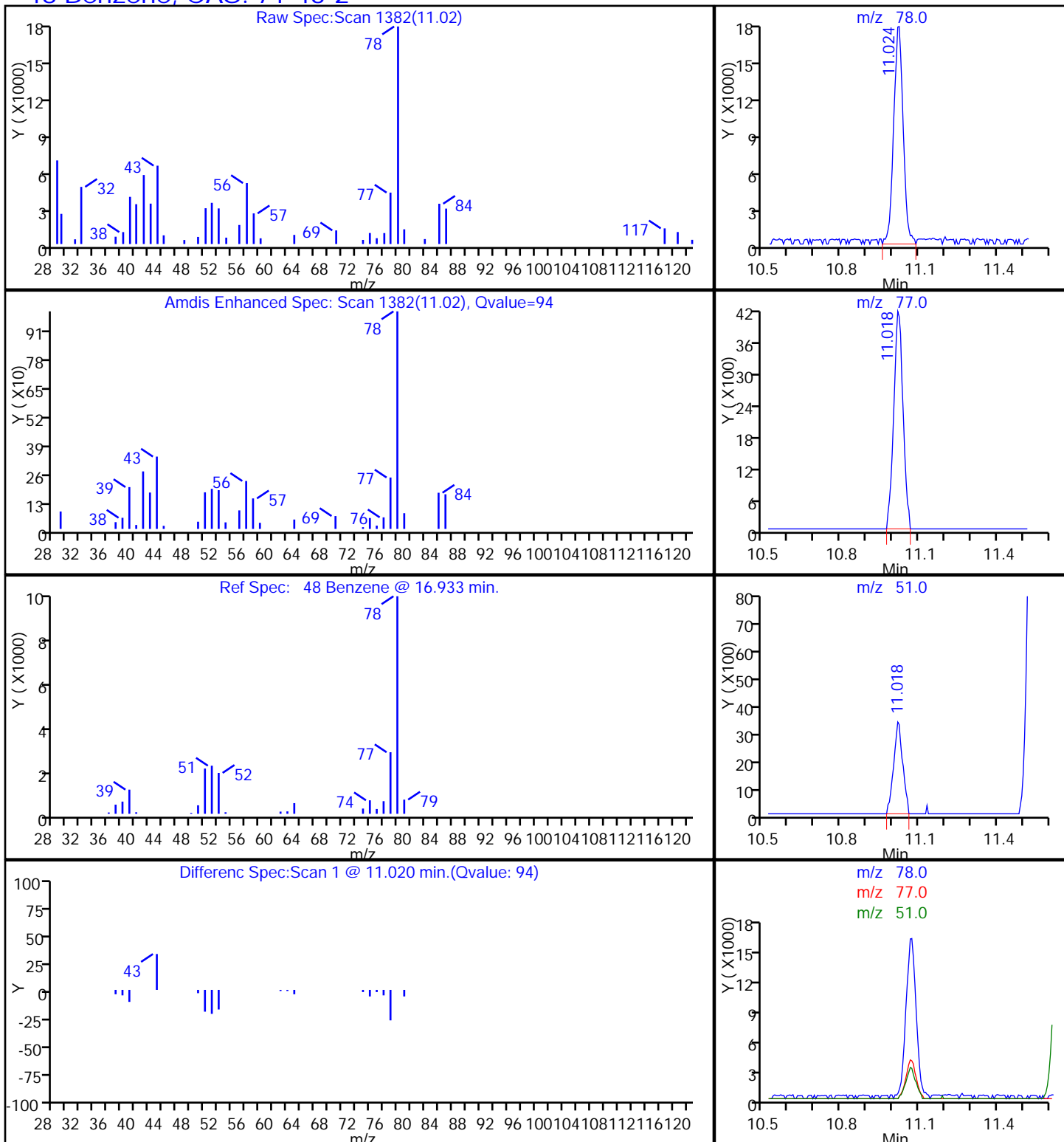
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

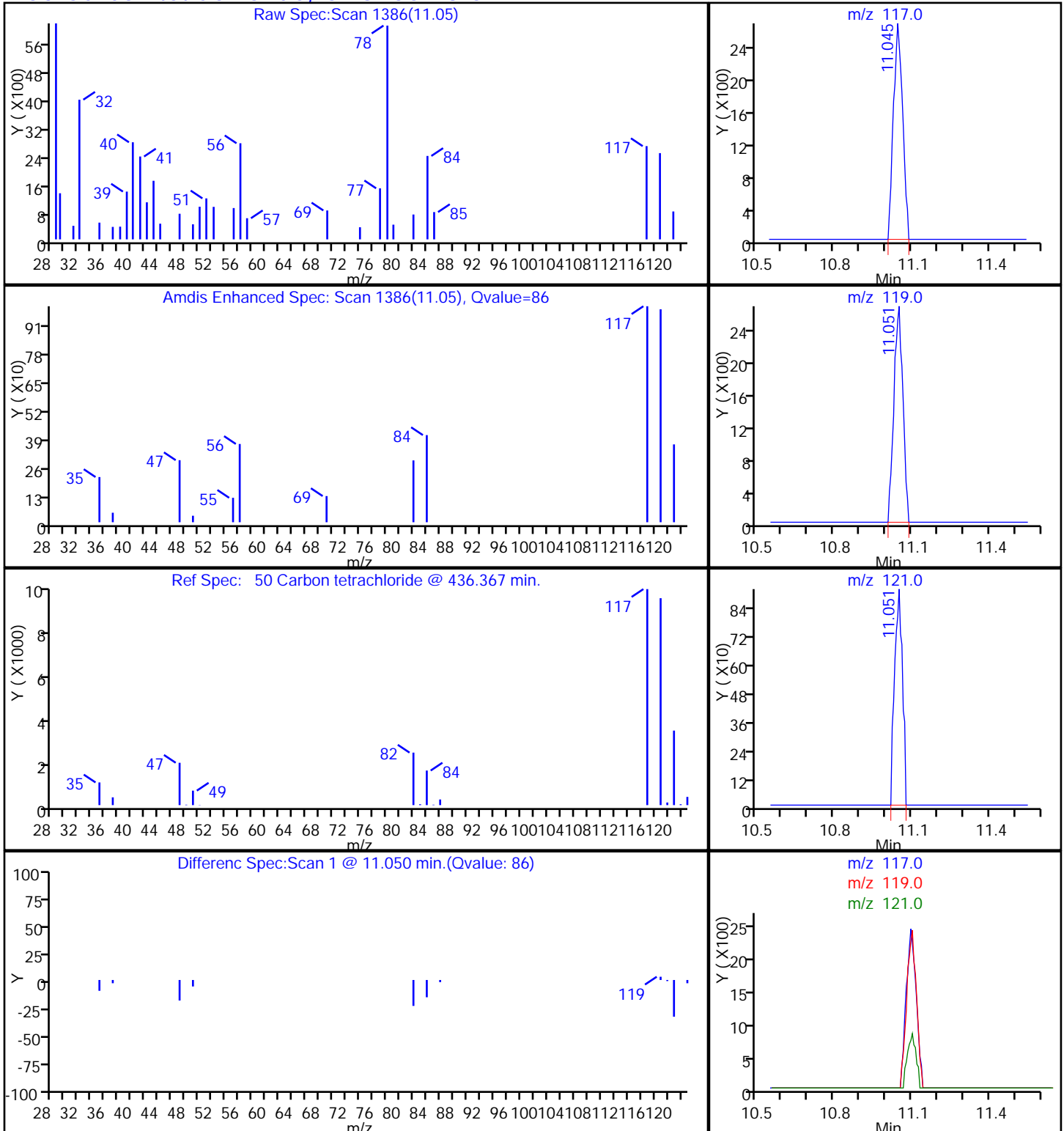
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

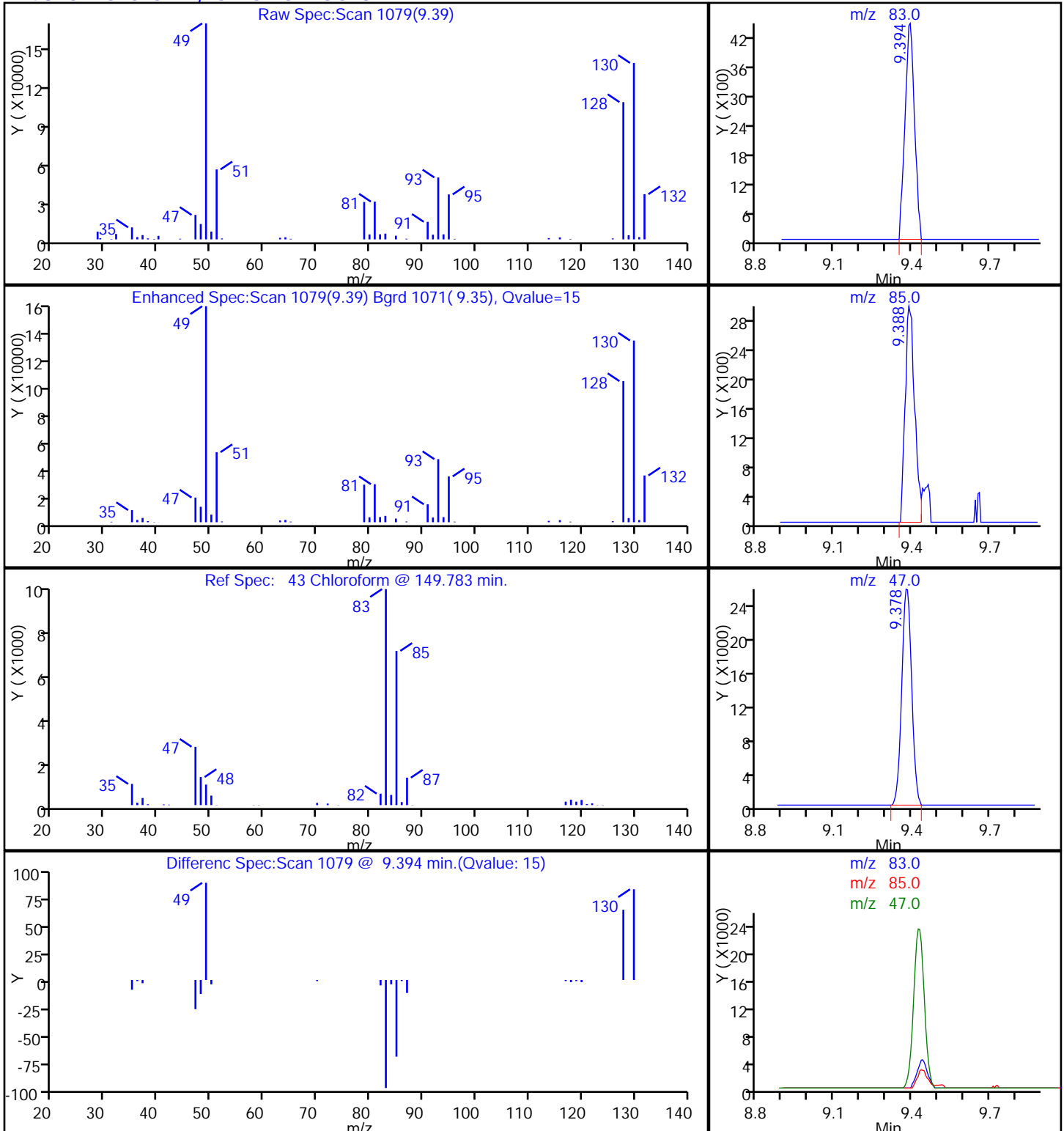
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

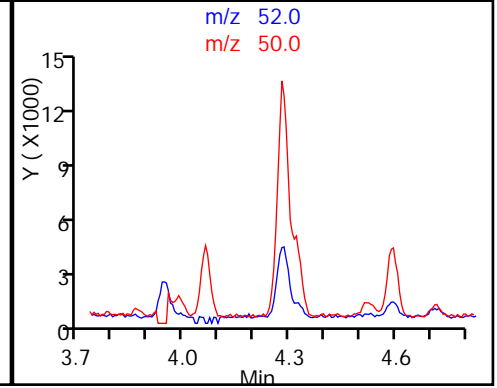
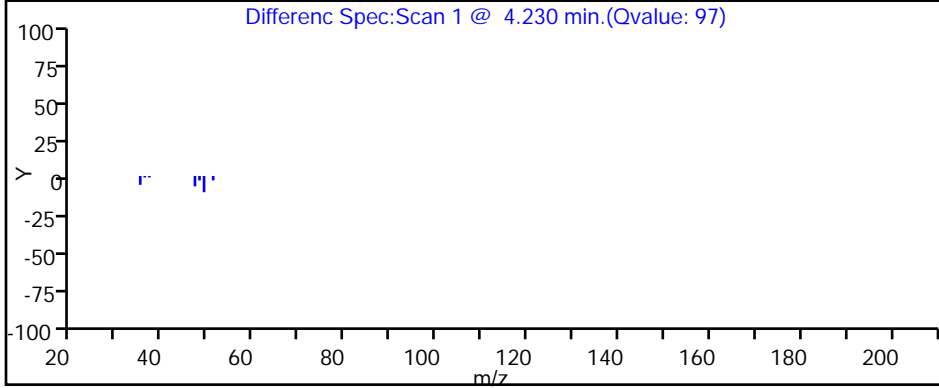
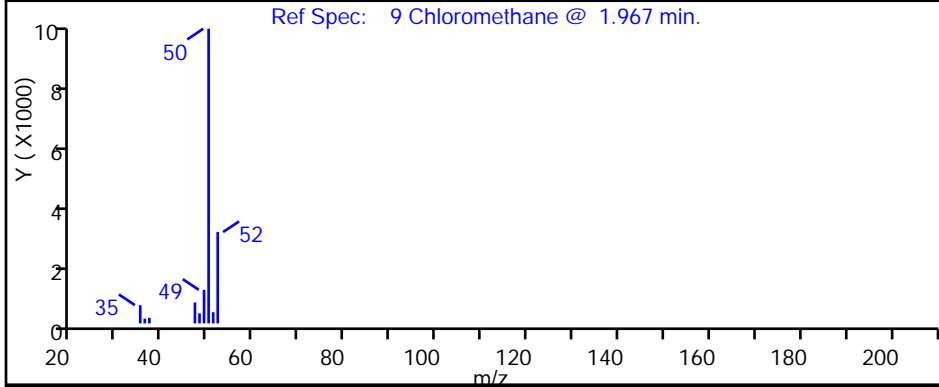
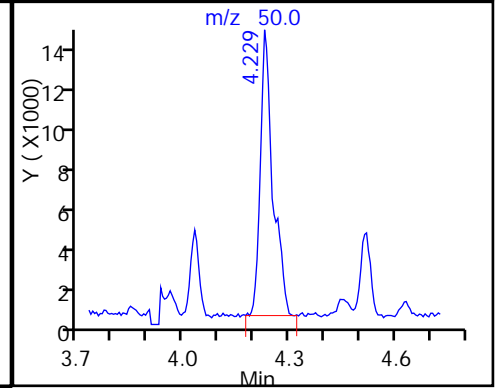
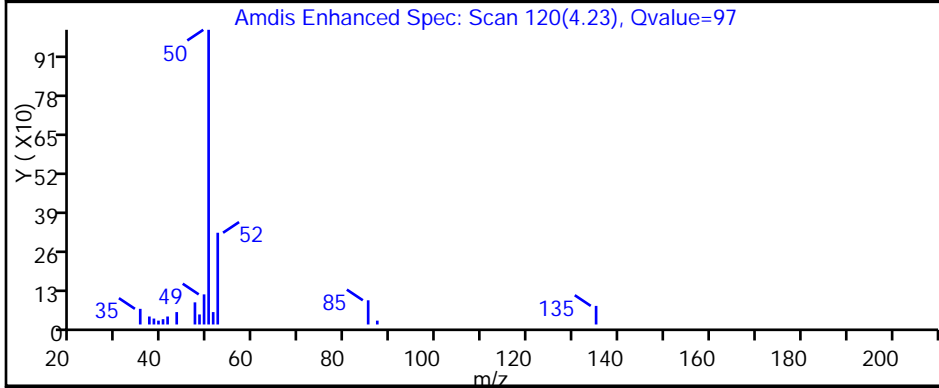
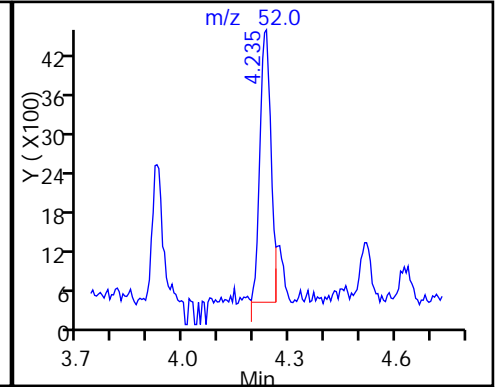
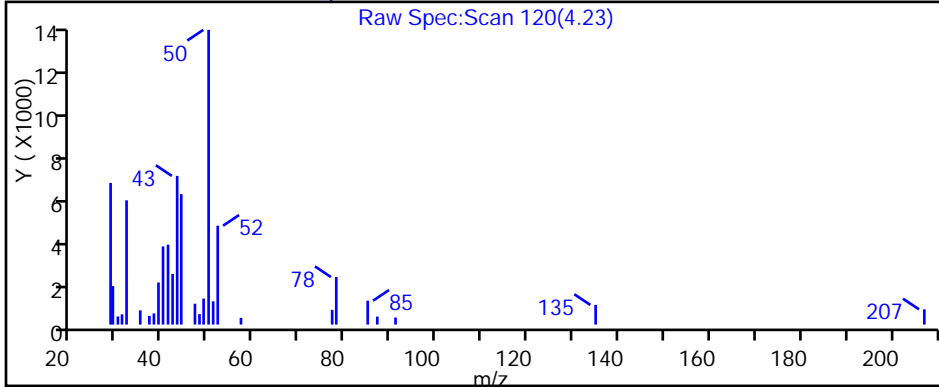
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

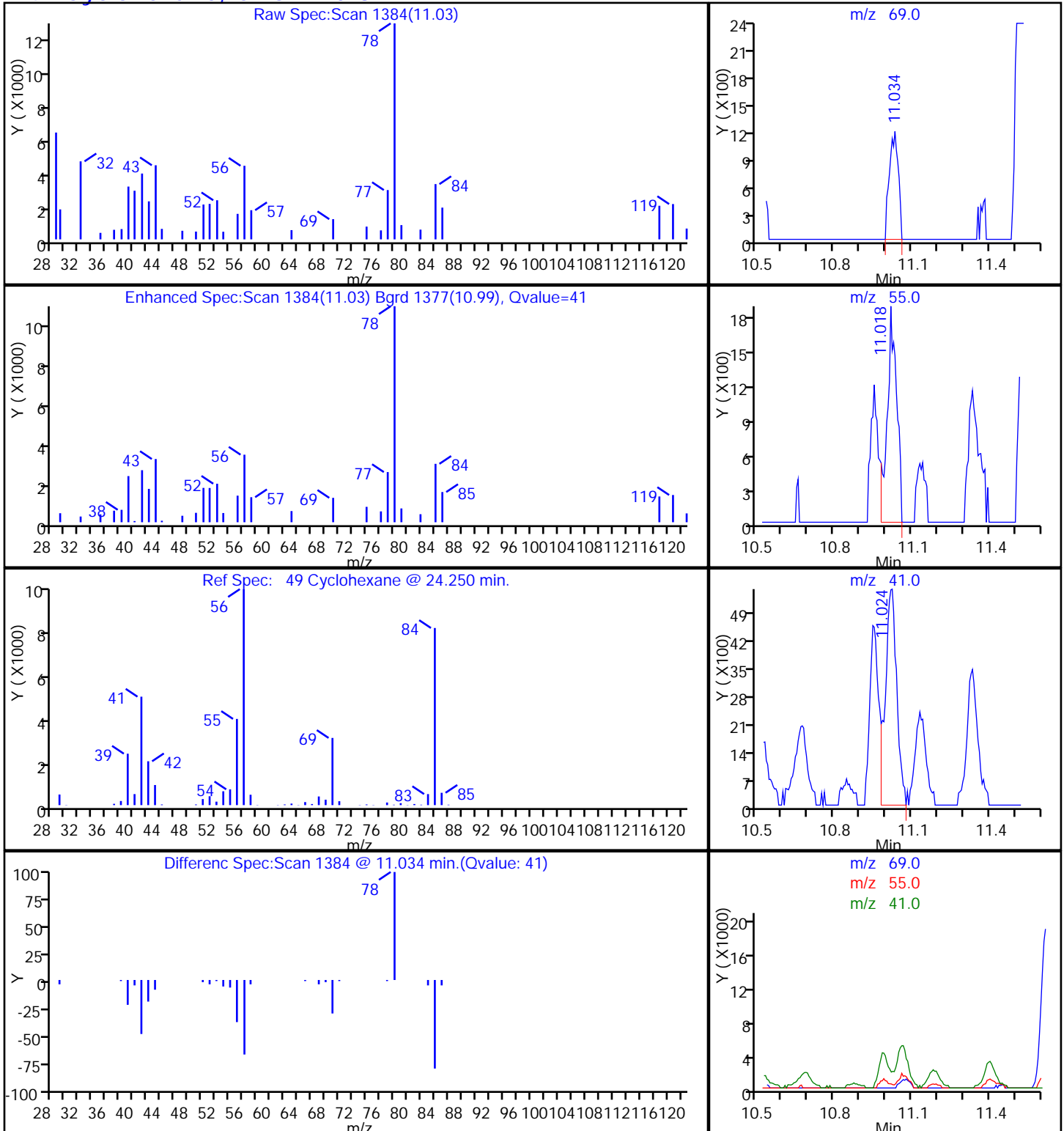
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

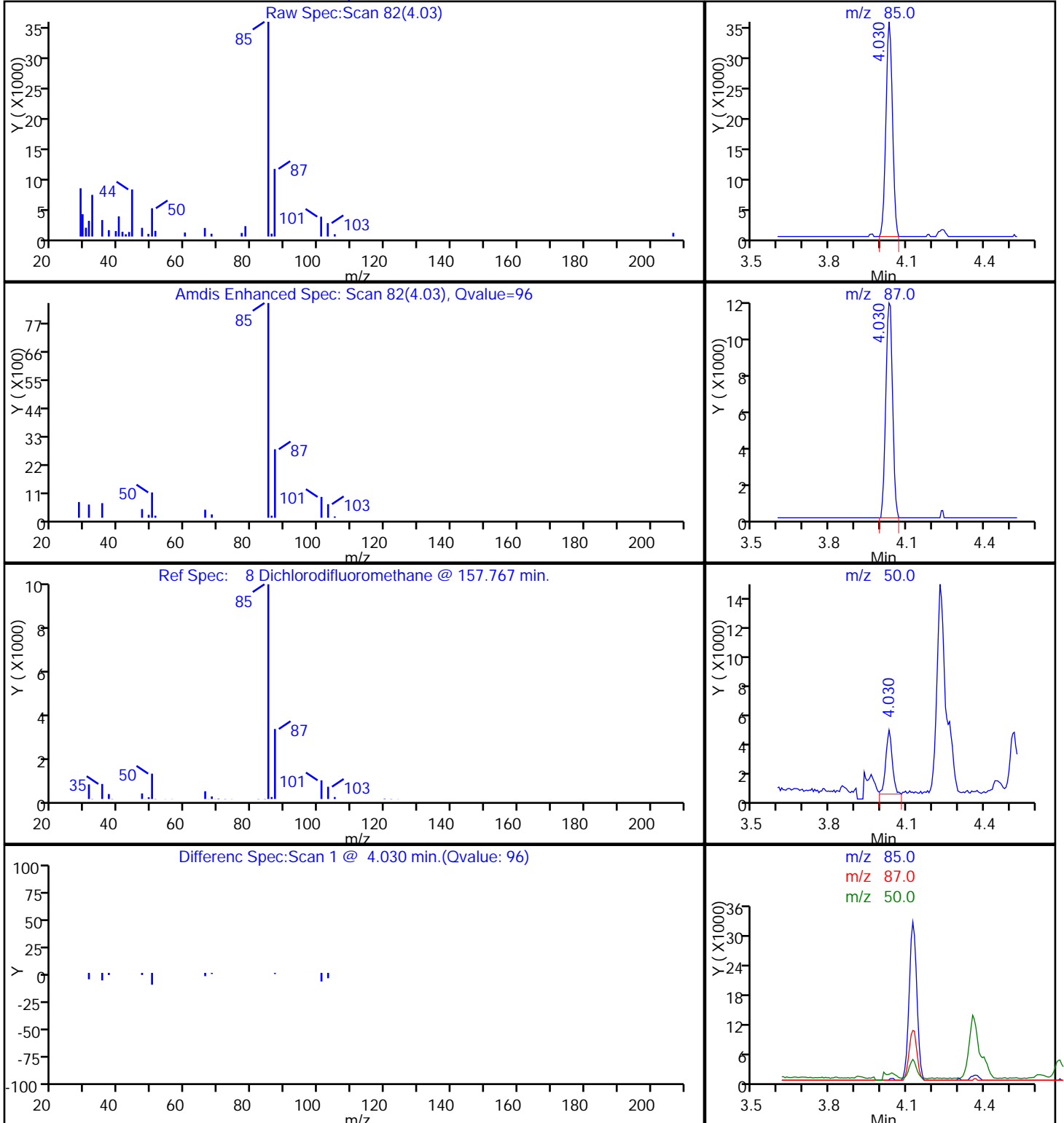
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

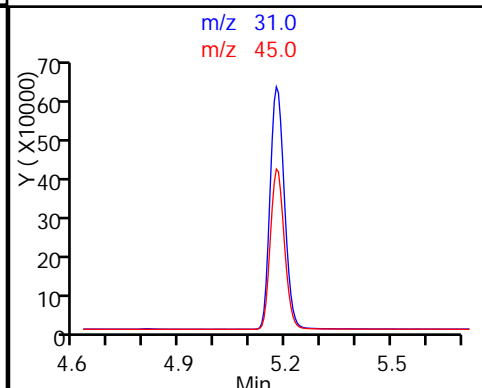
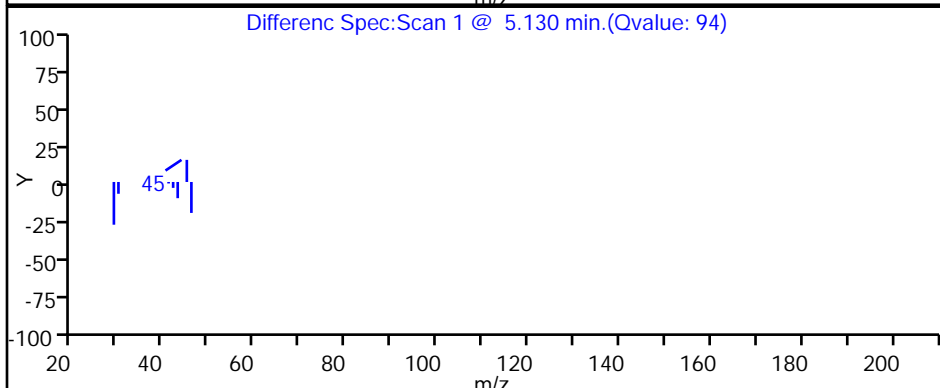
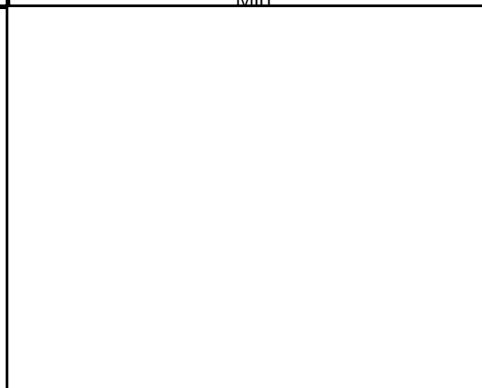
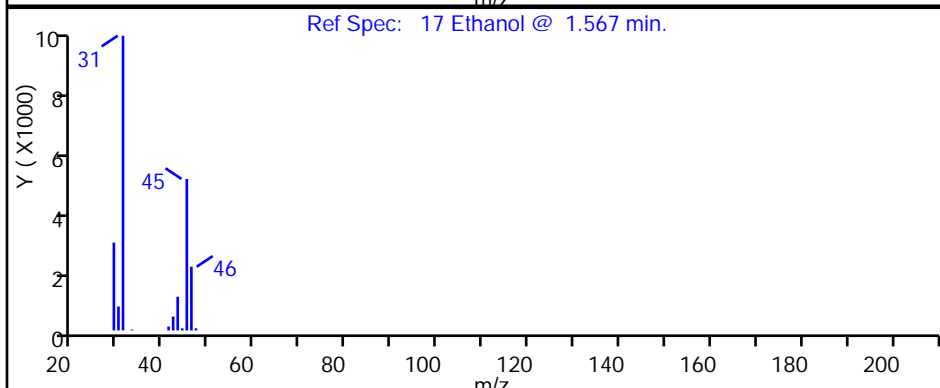
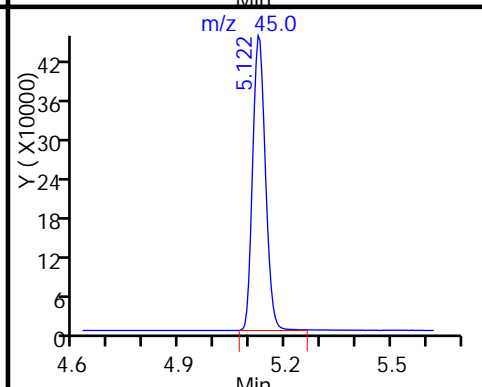
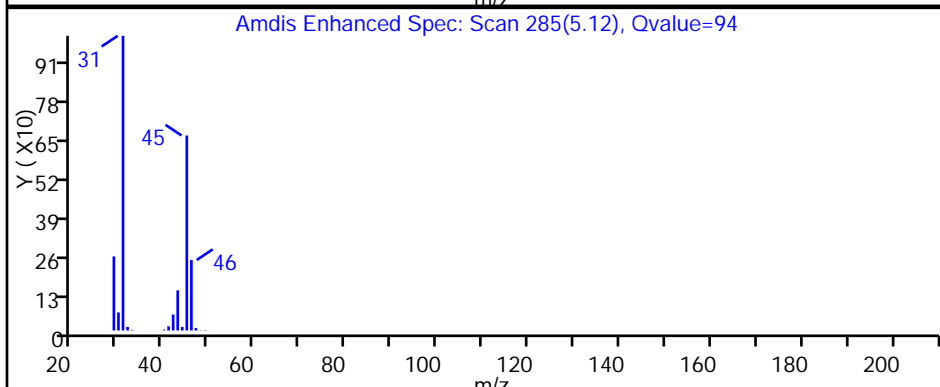
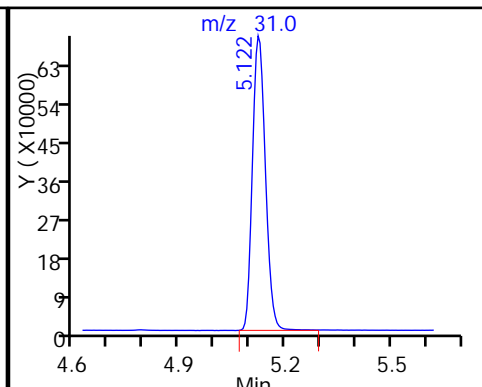
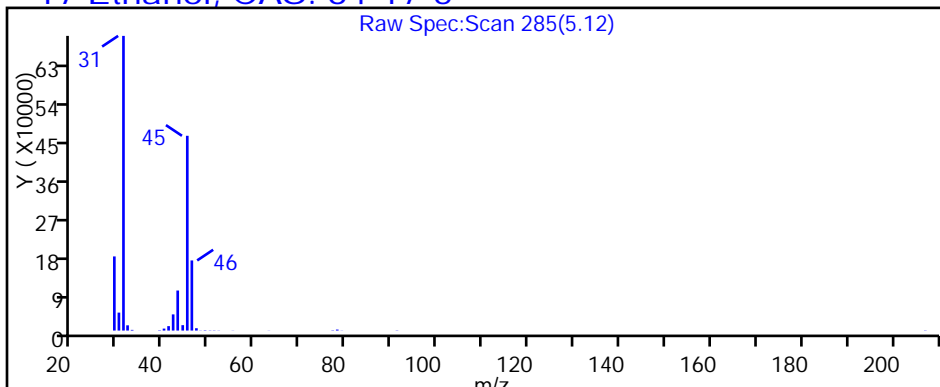
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

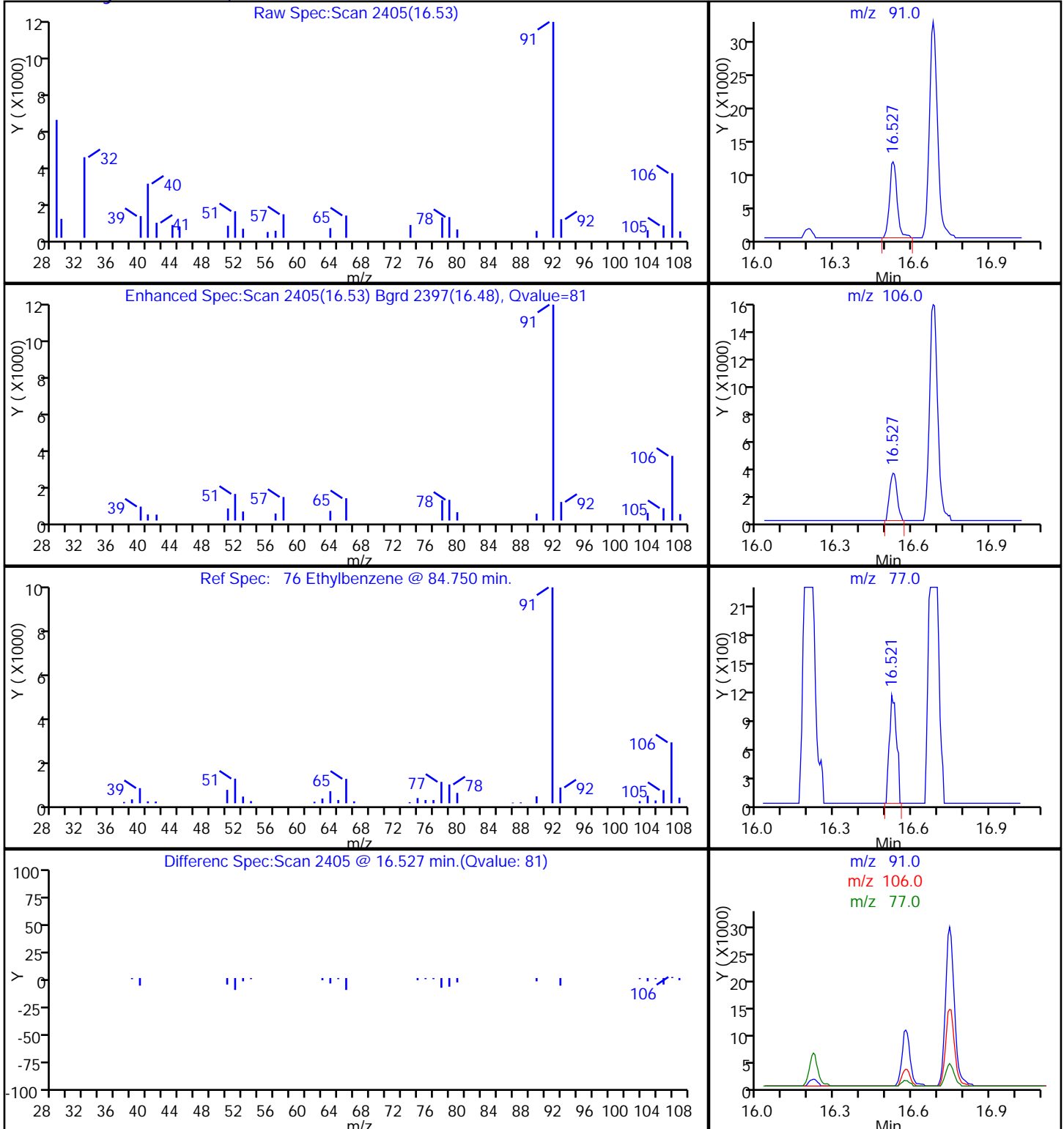
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

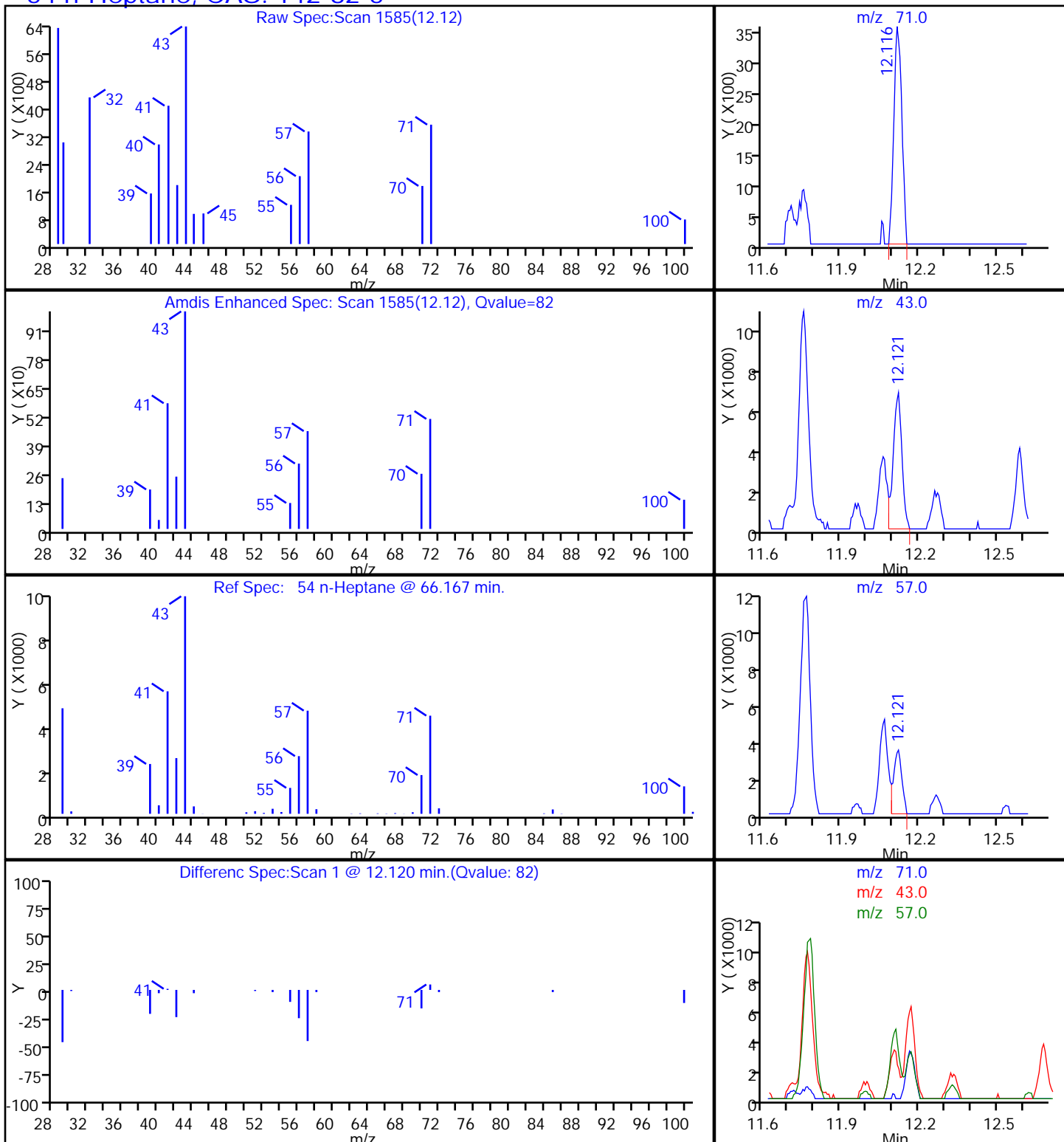
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

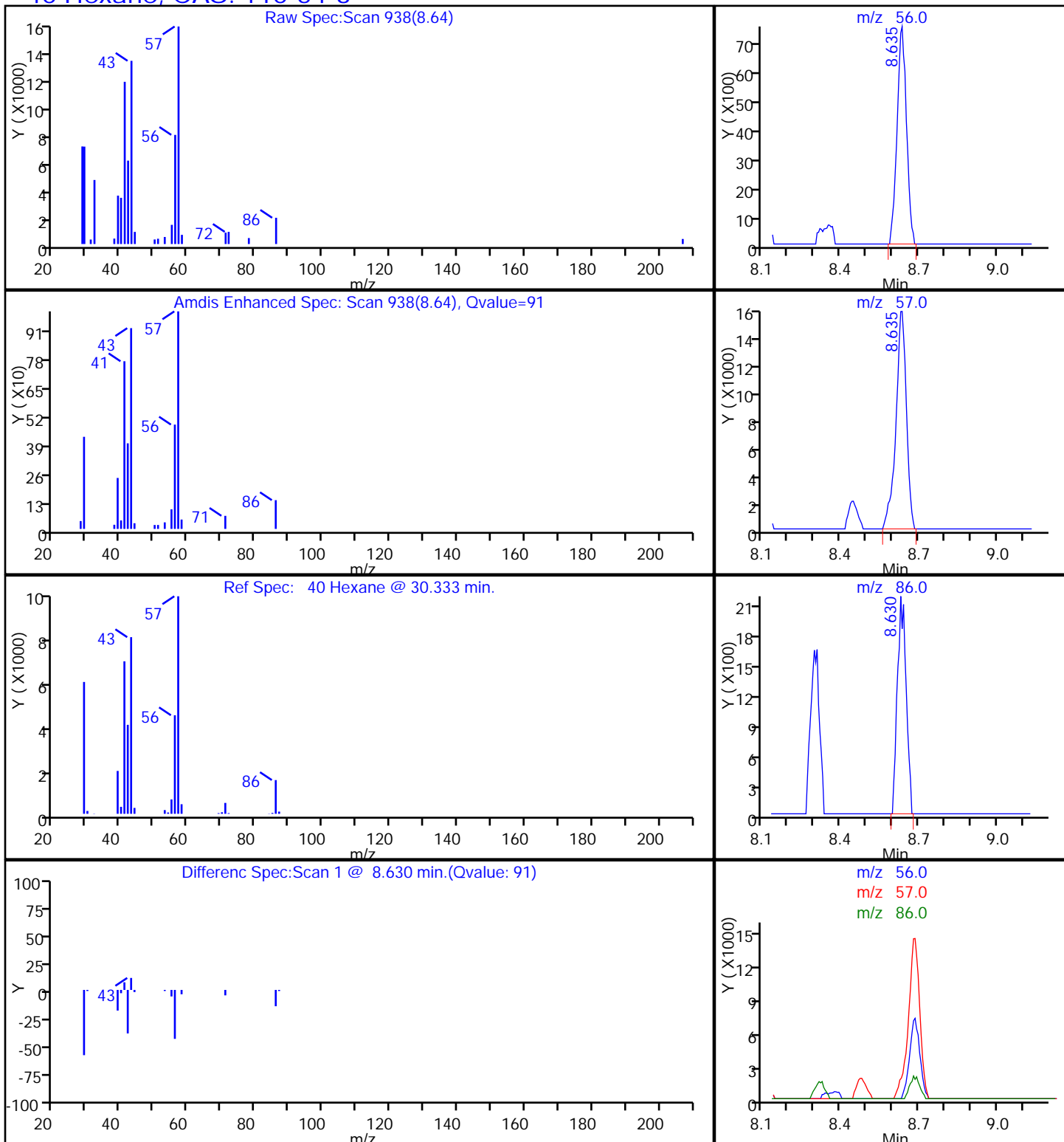
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

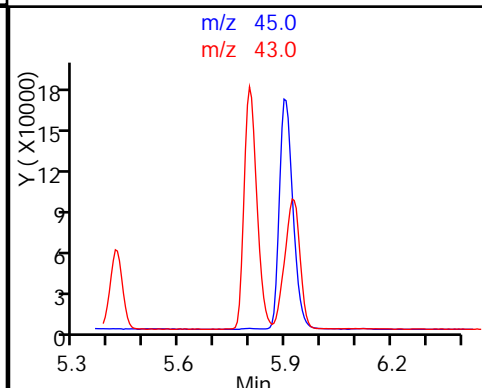
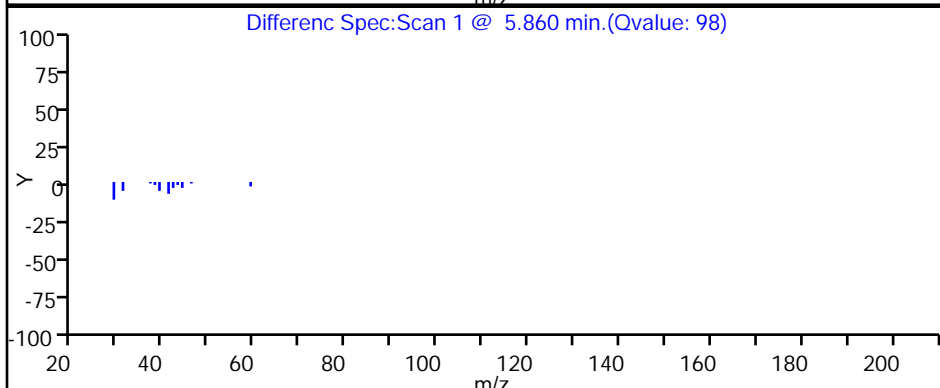
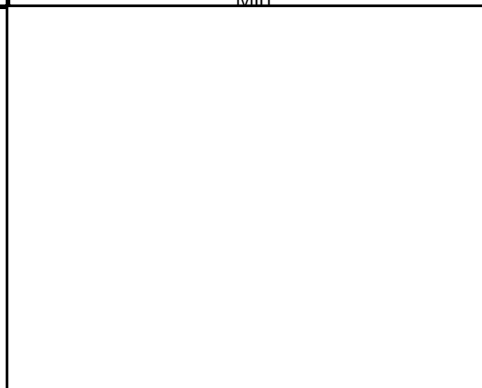
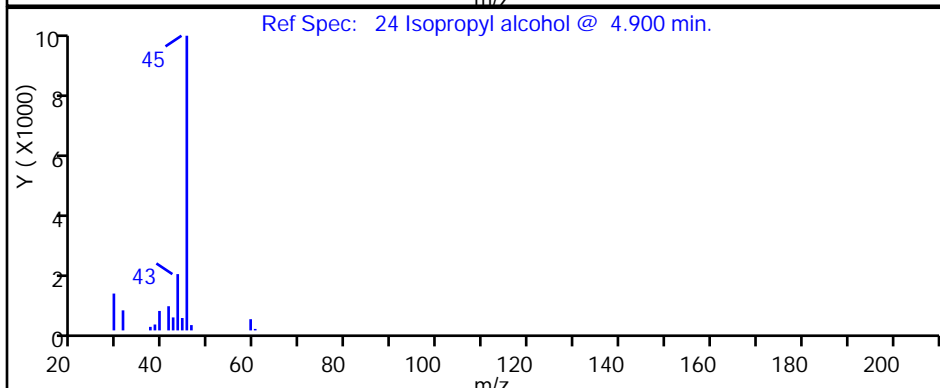
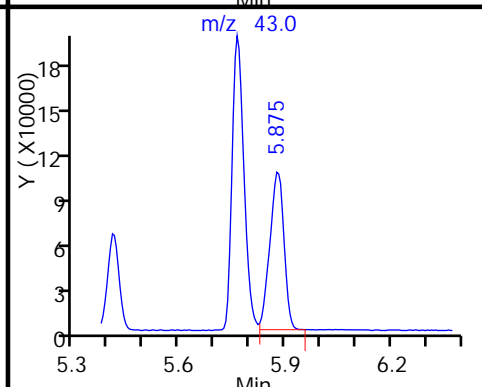
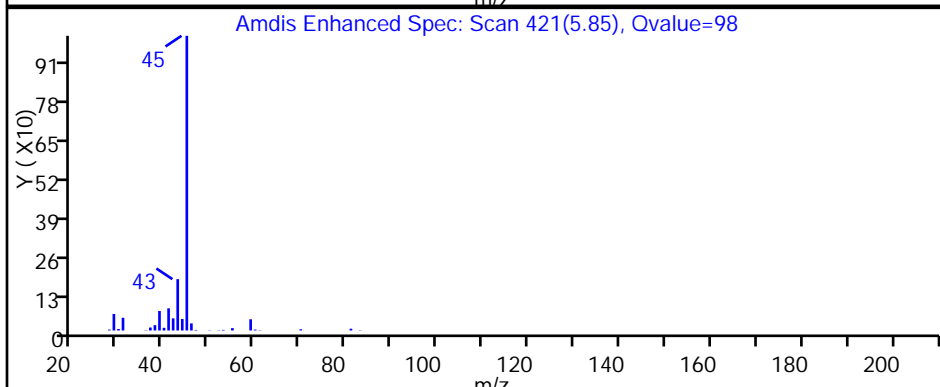
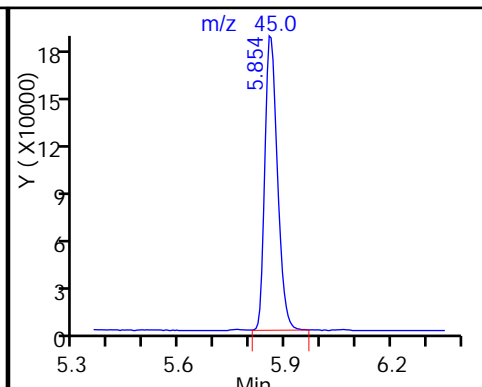
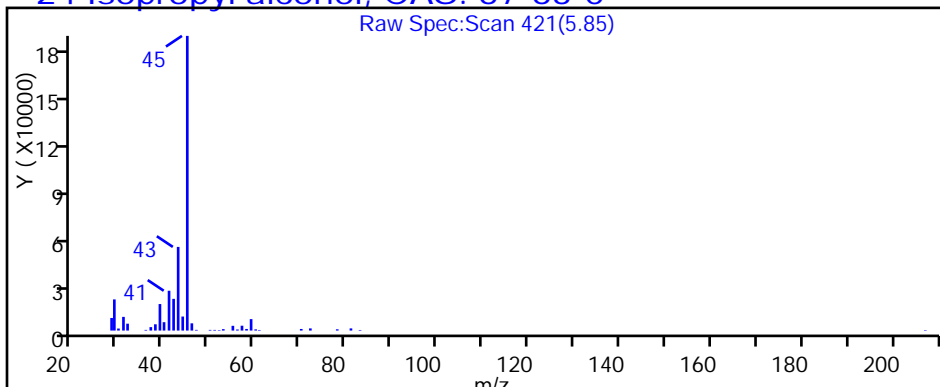
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

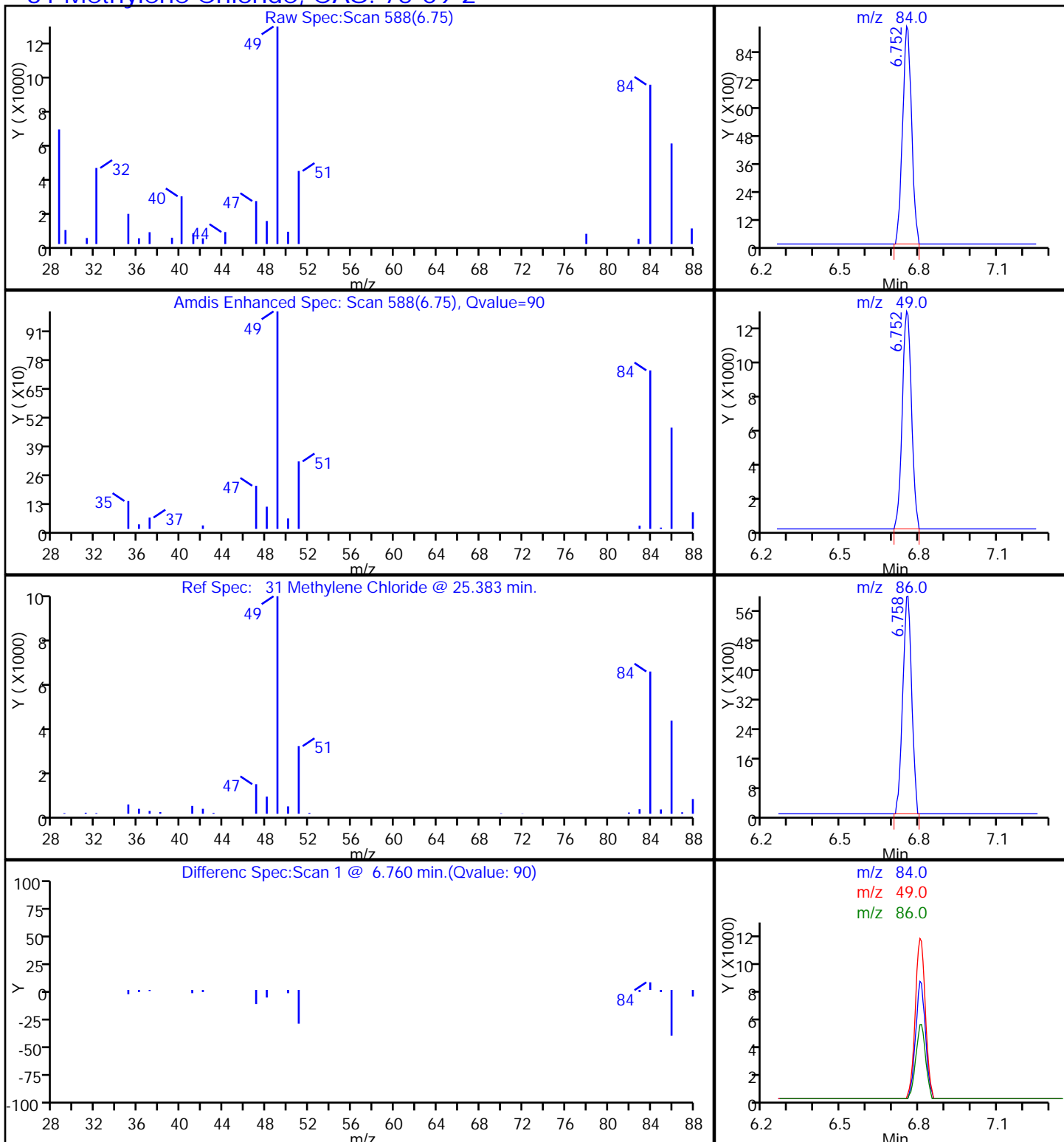
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

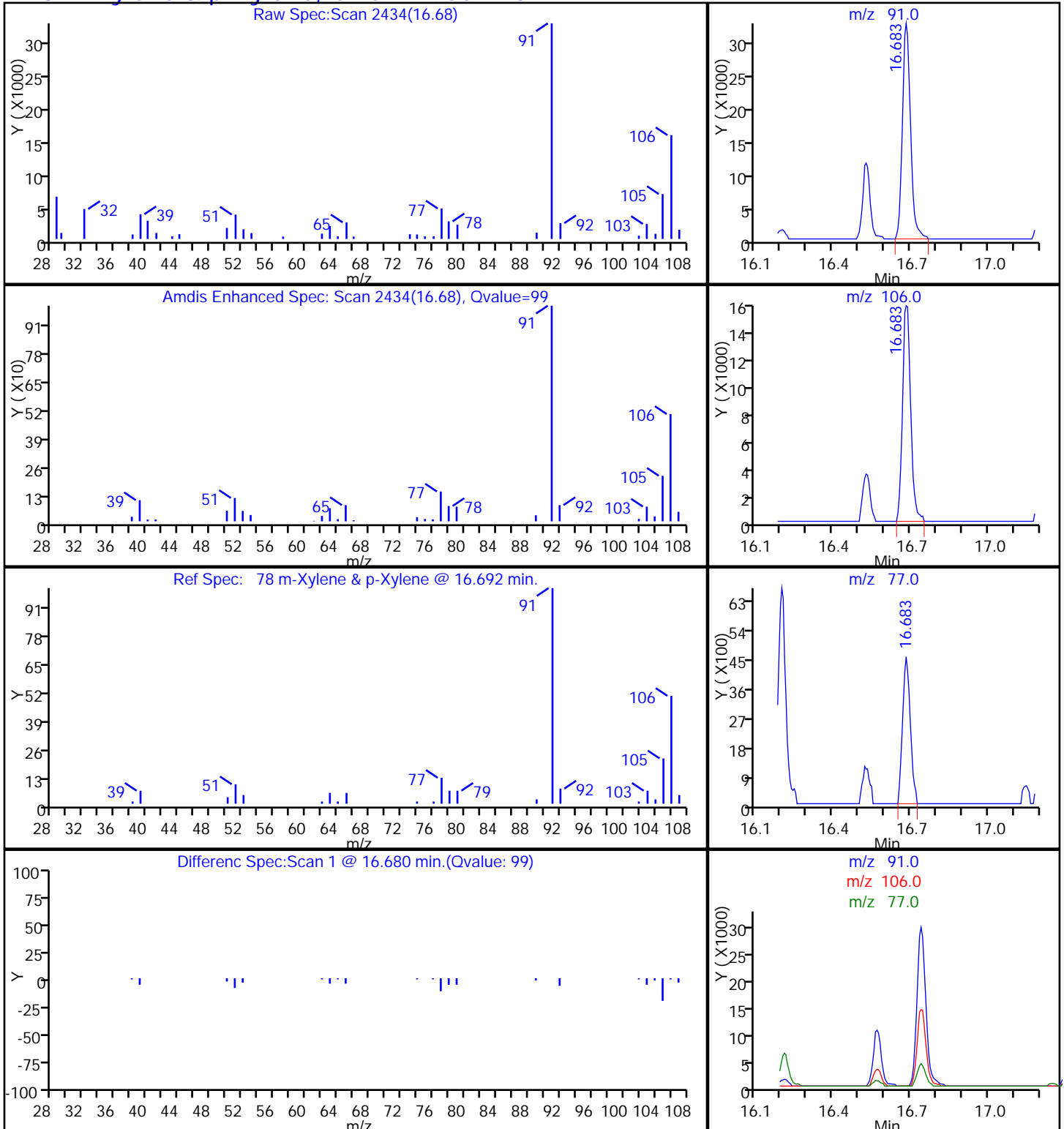
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

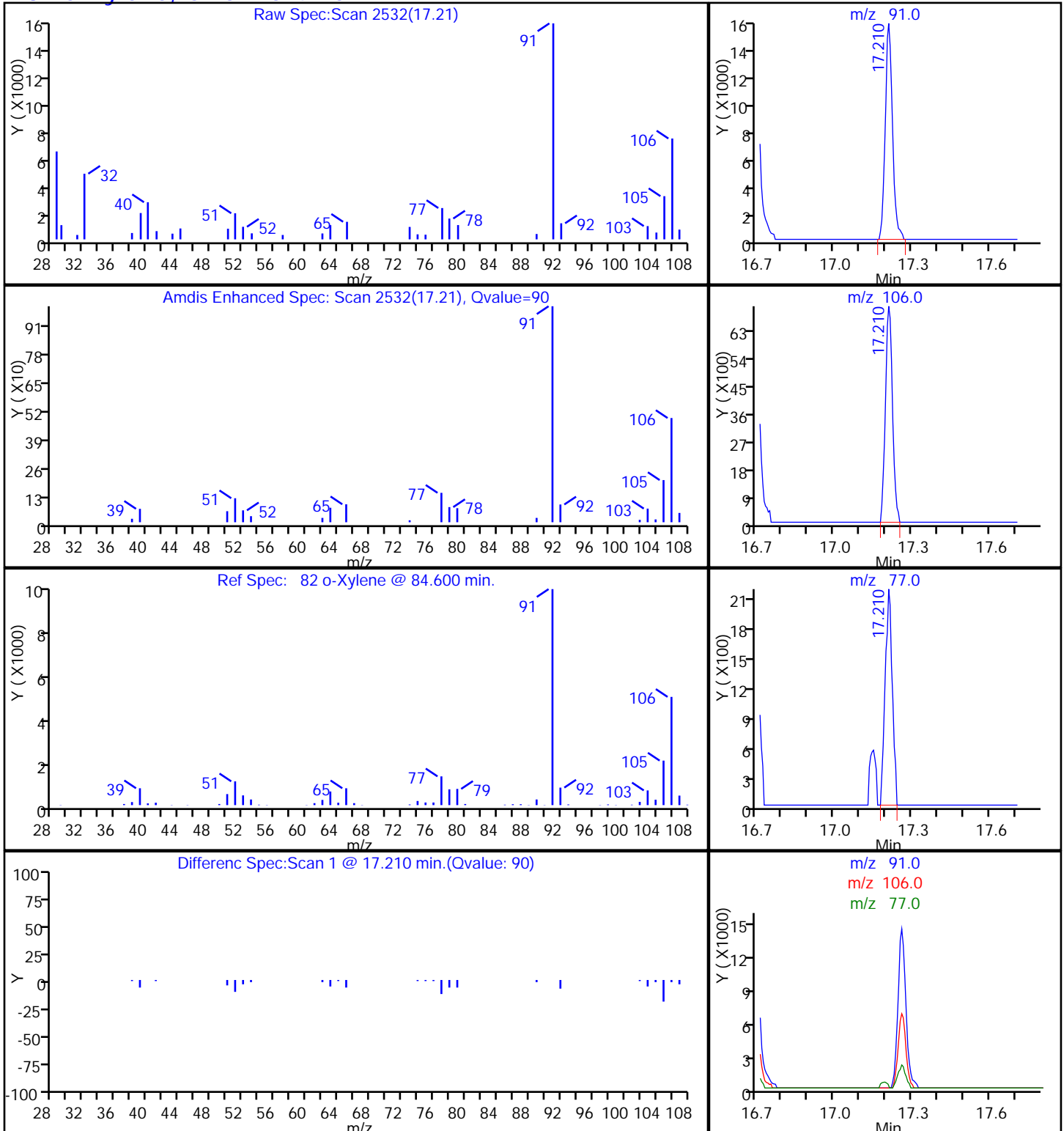
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

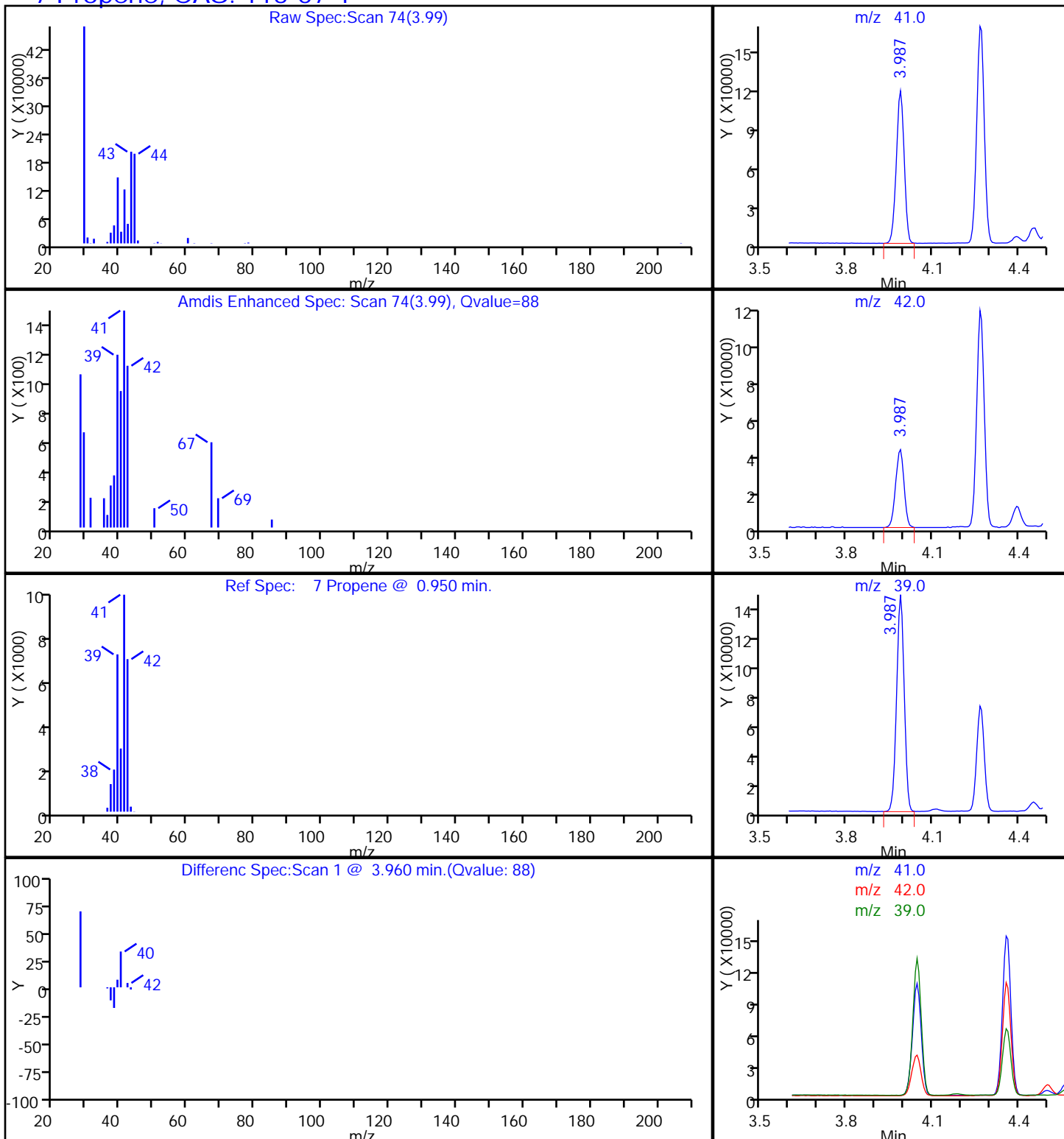
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

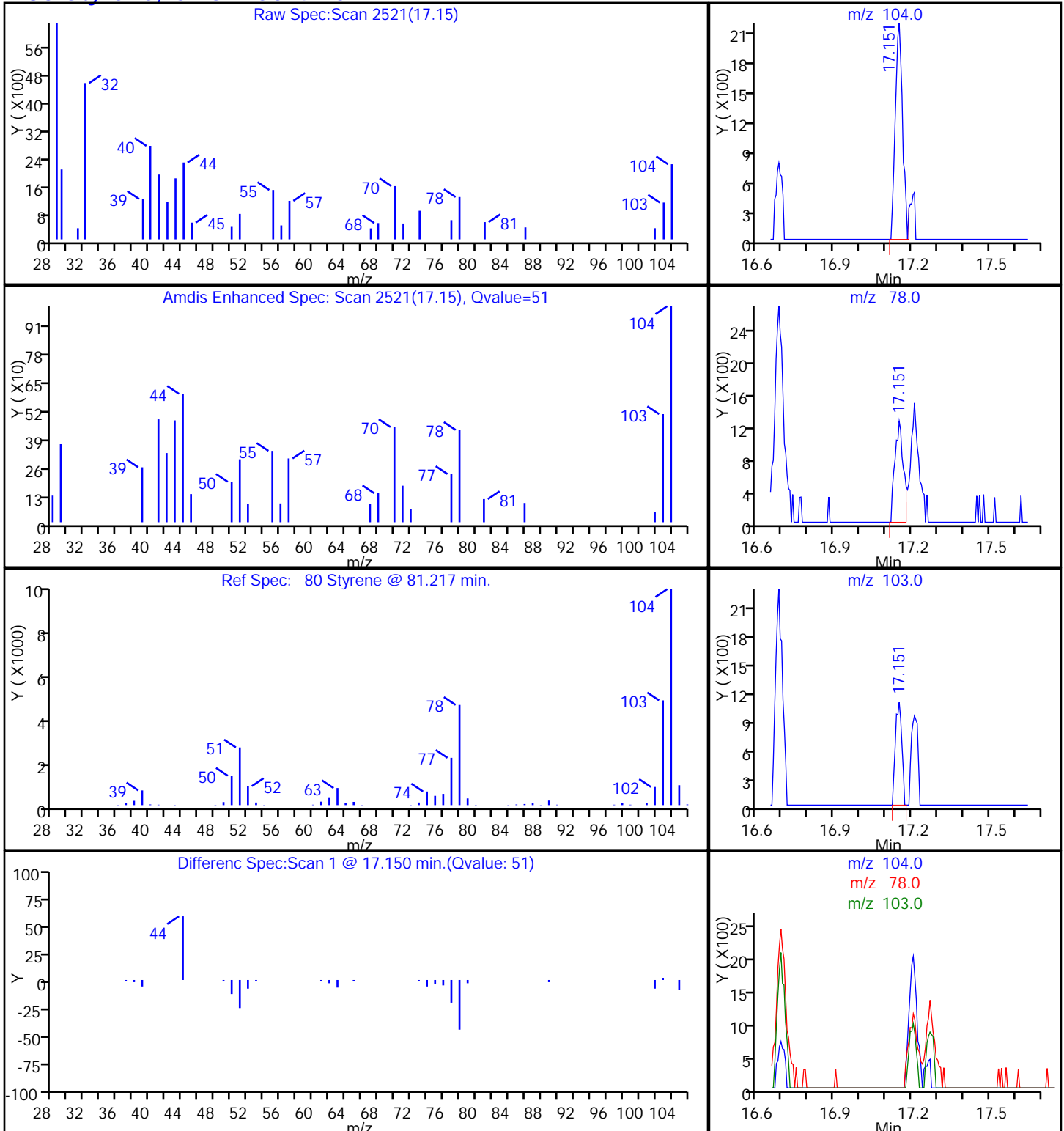
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

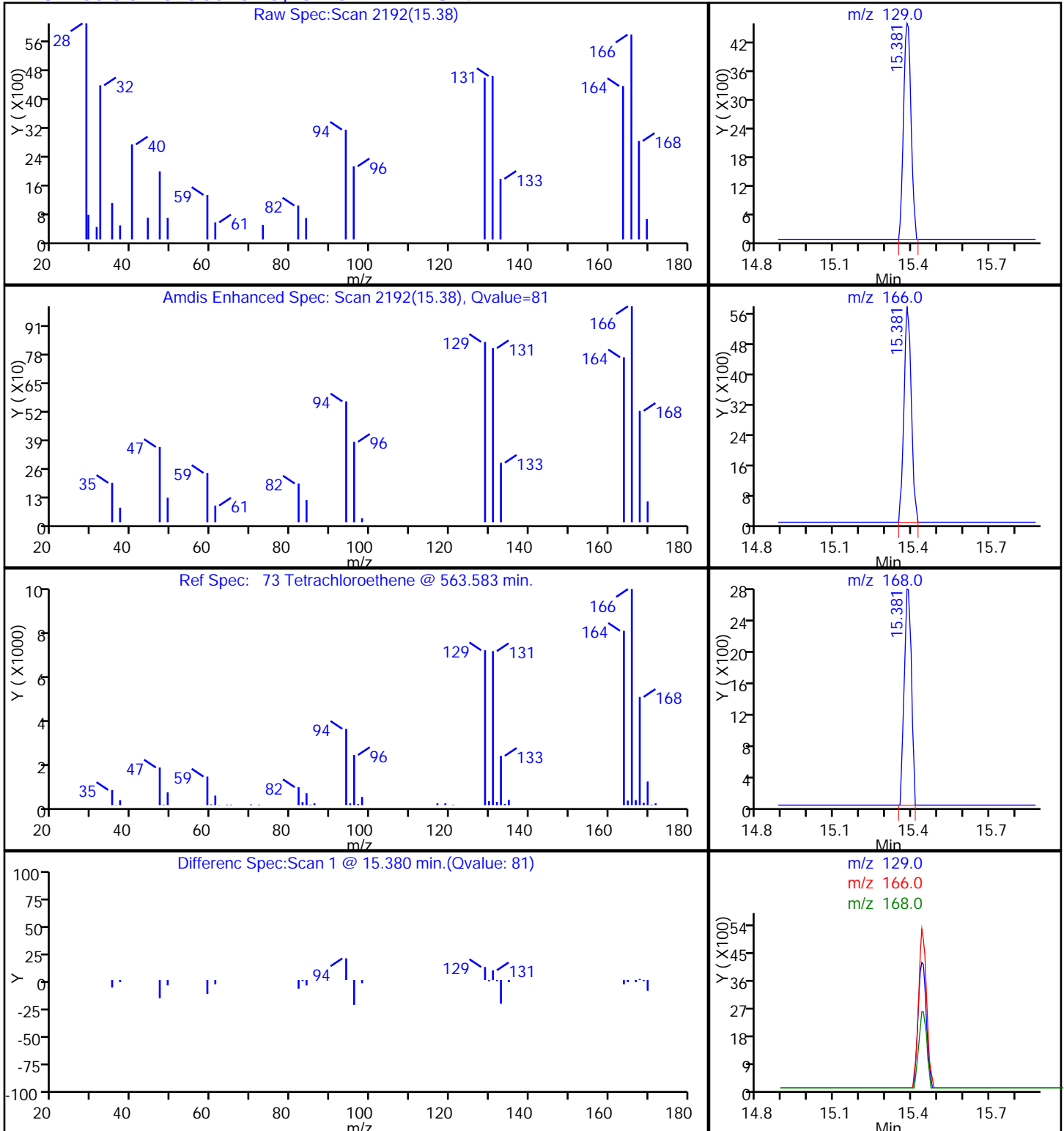
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

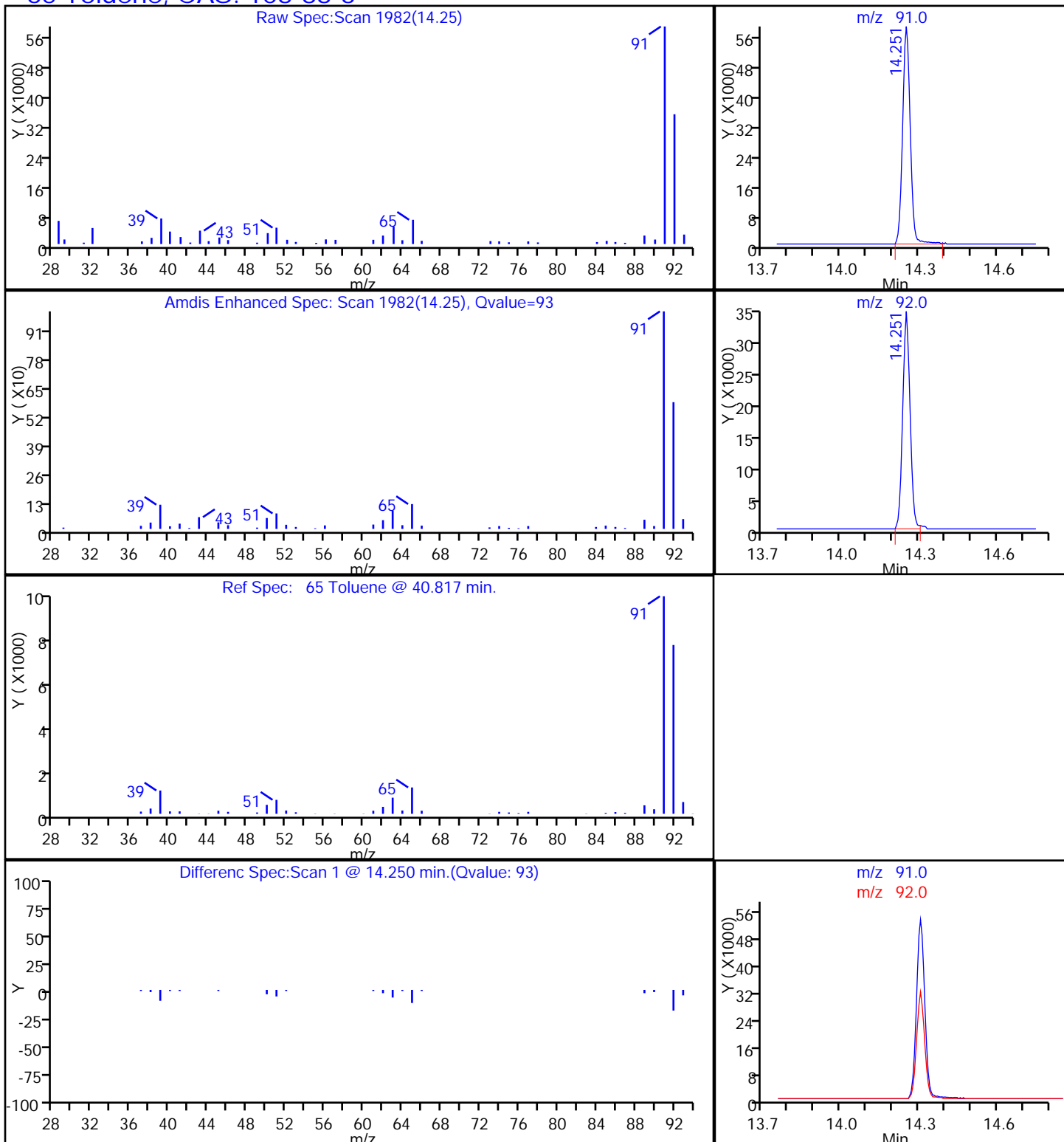
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D

Injection Date: 19-Mar-2014 06:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-10

Lab Sample ID: 140-1063-10

Client ID: PCV-IA1-B11

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

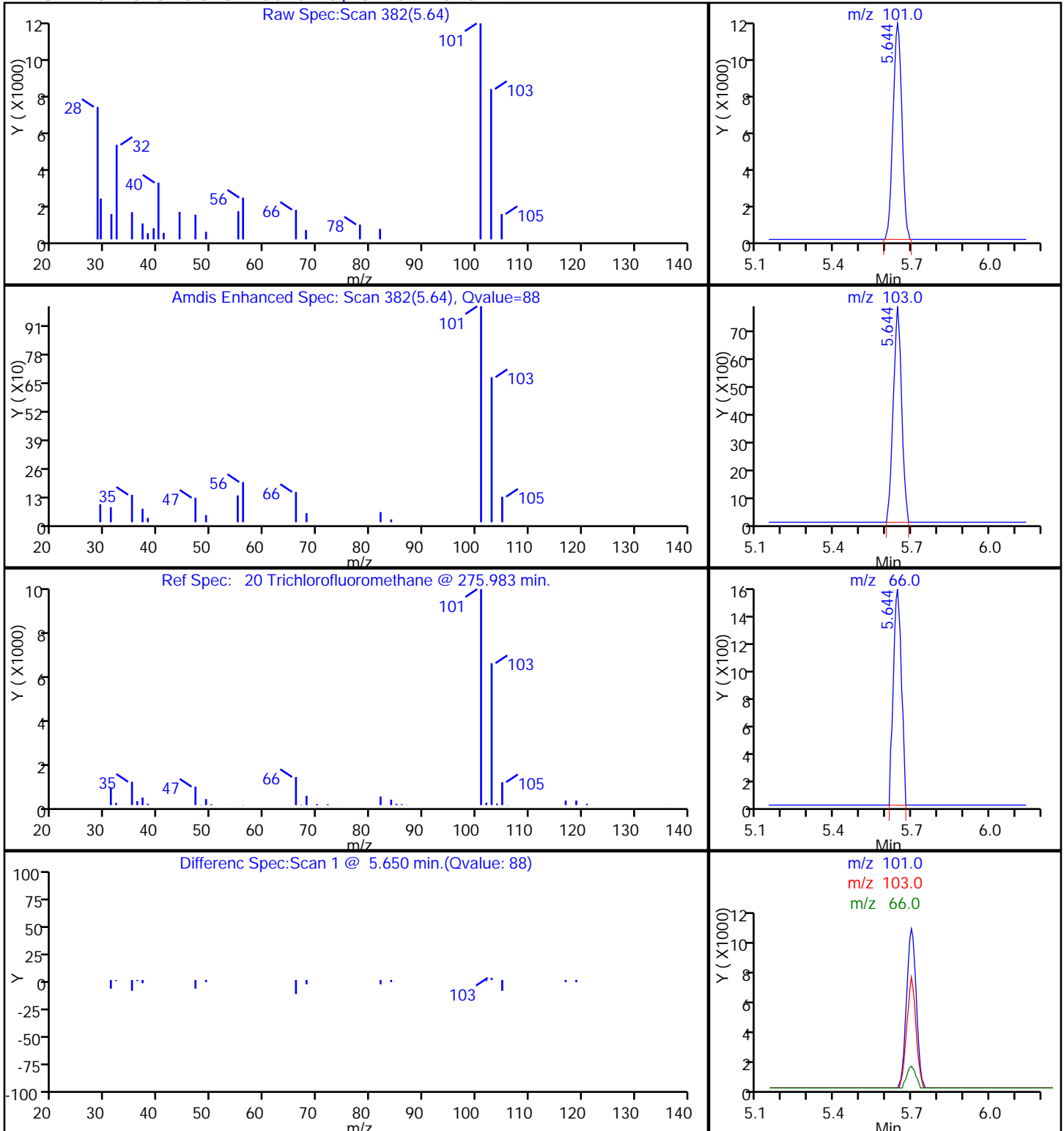
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



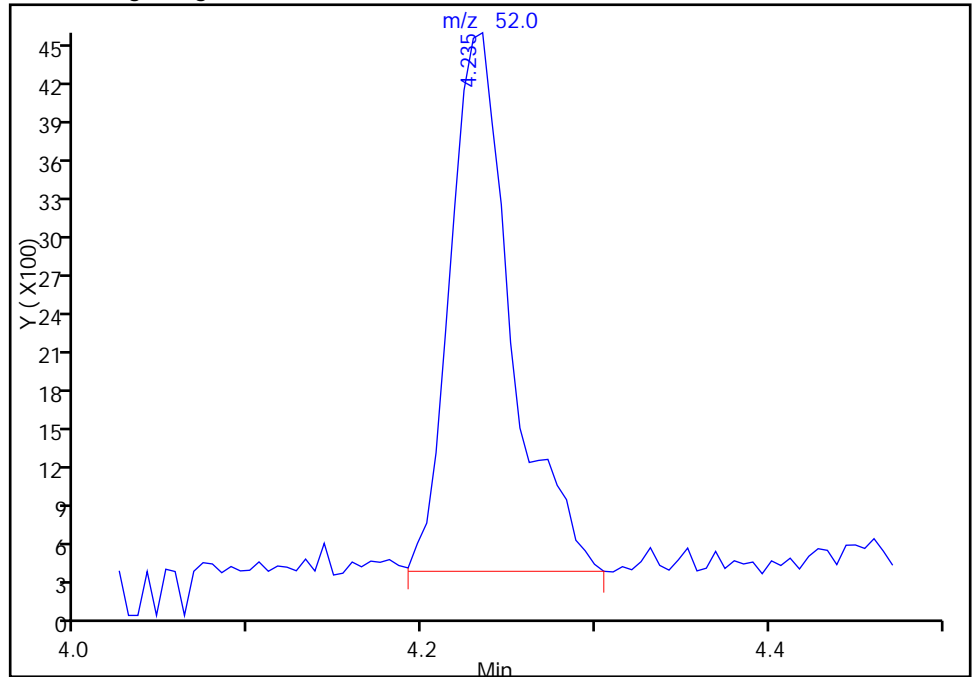
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P212.D
Injection Date: 19-Mar-2014 06:01:30 Instrument ID: MJ
Lims ID: 140-1063-A-10 Lab Sample ID: 140-1063-10
Client ID: PCV-IA1-B11
Operator ID: 403648 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

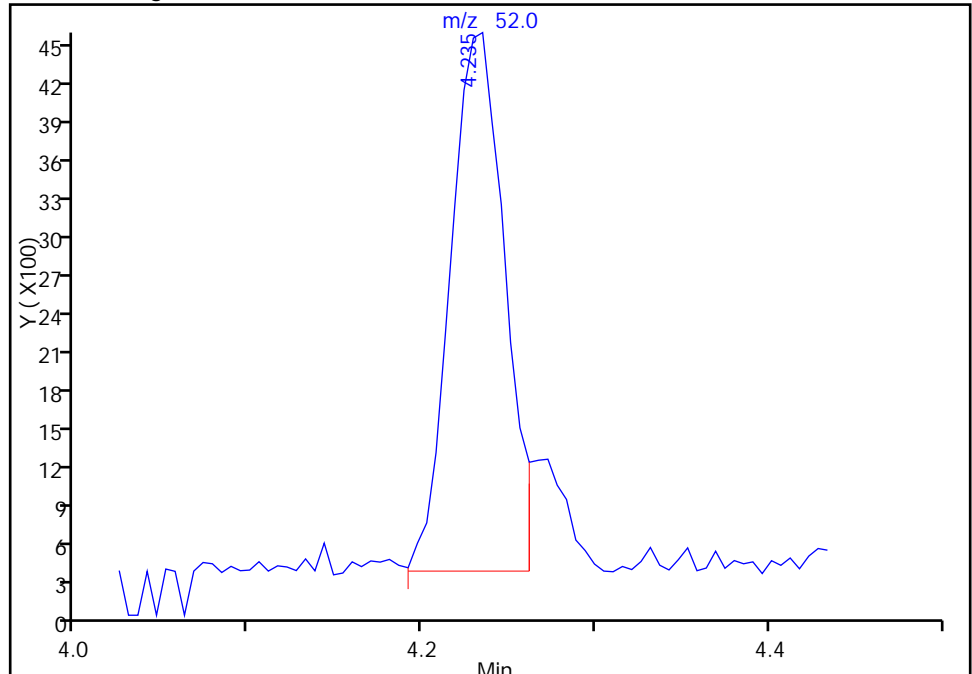
RT: 4.23
Response: 10283
Amount: 0.256274

Processing Integration Results



RT: 4.23
Response: 9179
Amount: 0.228760

Manual Integration Results



Reviewer: barlozhetskayaa, 19-Mar-2014 12:54:39
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11
 Matrix: Air Lab File ID: JC18P213.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:32
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.13	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.10	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.83	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	1.5		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.29		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.099	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.46	J	0.50	0.045
67-64-1	Acetone	58.08	5.5		5.0	1.4
71-43-2	Benzene	78.11	0.37		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.042	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11
 Matrix: Air Lab File ID: JC18P213.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:32
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.077	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.64		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.090	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	56		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.18	J	0.20	0.068
142-82-5	Heptane	100.21	0.18	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.31	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.47	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.61		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.24		0.20	0.061
115-07-1	Propene	42.08	1.9	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.1		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11
 Matrix: Air Lab File ID: JC18P213.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:32
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 06:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11
 Matrix: Air Lab File ID: JC18P213.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:32
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.64	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.61	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.72	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	2.5	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	4.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.0		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.49	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.9	J	2.0	0.18
67-64-1	Acetone	58.08	13		12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.13	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11
 Matrix: Air Lab File ID: JC18P213.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:32
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 06:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.38	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.31	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	110		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.77	J	0.87	0.30
142-82-5	Heptane	100.21	0.73	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.1	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.6	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	2.7		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.0		0.87	0.26
115-07-1	Propene	42.08	3.2	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.0	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B11 Lab Sample ID: 140-1063-11
 Matrix: Air Lab File ID: JC18P213.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:32
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 06:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D
 Lims ID: 140-1063-A-11 Lab Sample ID: 140-1063-11
 Client ID: PCV-IA2-B11
 Sample Type: Client
 Inject. Date: 19-Mar-2014 06:56:30 ALS Bottle#: 13 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-11
 Misc. Info.: J031814,TO15,,140-0000527-019
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:57:31 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:06:38

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.381	9.388	-0.007	89	353782	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1687192	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1399026	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	91	947308	3.83	
7 Propene	41	3.980	3.971	0.009	86	81566	0.7519	
8 Dichlorodifluoromethane	85	4.028	4.030	-0.002	96	63715	0.1818	
9 Chloromethane	52	4.227	4.229	-0.002	99	10222	0.2568	
17 Ethanol	31	5.115	5.116	-0.001	95	638229	22.5	
19 2-Methylbutane	43	5.411	5.407	0.004	93	89933	0.5985	
20 Trichlorofluoromethane	101	5.642	5.644	-0.002	87	26914	0.0874	
23 Acetone	58	5.766	5.767	-0.001	92	110958	2.21	
24 Isopropyl alcohol	45	5.852	5.848	0.004	95	276601	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.578	6.580	-0.002	62	6020	0.0282	
31 Methylene Chloride	84	6.750	6.757	-0.007	92	17913	0.1893	
33 Carbon disulfide	76	6.928	6.935	-0.007	73	5564	0.0167	
35 2-Methylpentane	43	7.622	7.623	-0.001	92	31465	0.1153	
39 2-Butanone (MEK)	72	8.595	8.586	0.009	96	11169	0.3335	
40 Hexane	56	8.633	8.635	-0.002	82	11919	0.1253	
43 Chloroform	83	9.386	9.393	-0.007	4	6368	0.0309	
48 Benzene	78	11.016	11.023	-0.007	95	42773	0.1478	
49 Cyclohexane	69	11.027	11.034	-0.007	39	2057	0.0360	
50 Carbon tetrachloride	117	11.048	11.050	-0.002	85	6747	0.0282	
53 Isooctane	57	11.759	11.760	-0.001	85	30284	0.0613	
54 n-Heptane	71	12.119	12.120	-0.001	81	7248	0.0708	
62 4-Methyl-2-pentanone (MIBK)	43	13.372	13.368	0.004	90	32230	0.1822	
65 Toluene	91	14.249	14.256	-0.007	93	119062	0.4588	
73 Tetrachloroethene	129	15.379	15.386	-0.007	82	7276	0.0602	
76 Ethylbenzene	91	16.525	16.532	-0.007	76	20267	0.0707	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	99	56839	0.2457	
82 o-Xylene	91	17.213	17.215	-0.002	83	22163	0.0945	
88 4-Ethyltoluene	105	18.451	18.447	0.004	36	12393	0.0398	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.940	18.942	-0.002	75	14207	0.0523	
97 1,4-Dichlorobenzene	146	19.295	19.297	-0.002	69	6723	0.0405	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Worklist Smp#: 19

Client ID: PCV-IA2-B11

Purge Vol: 500.000 mL

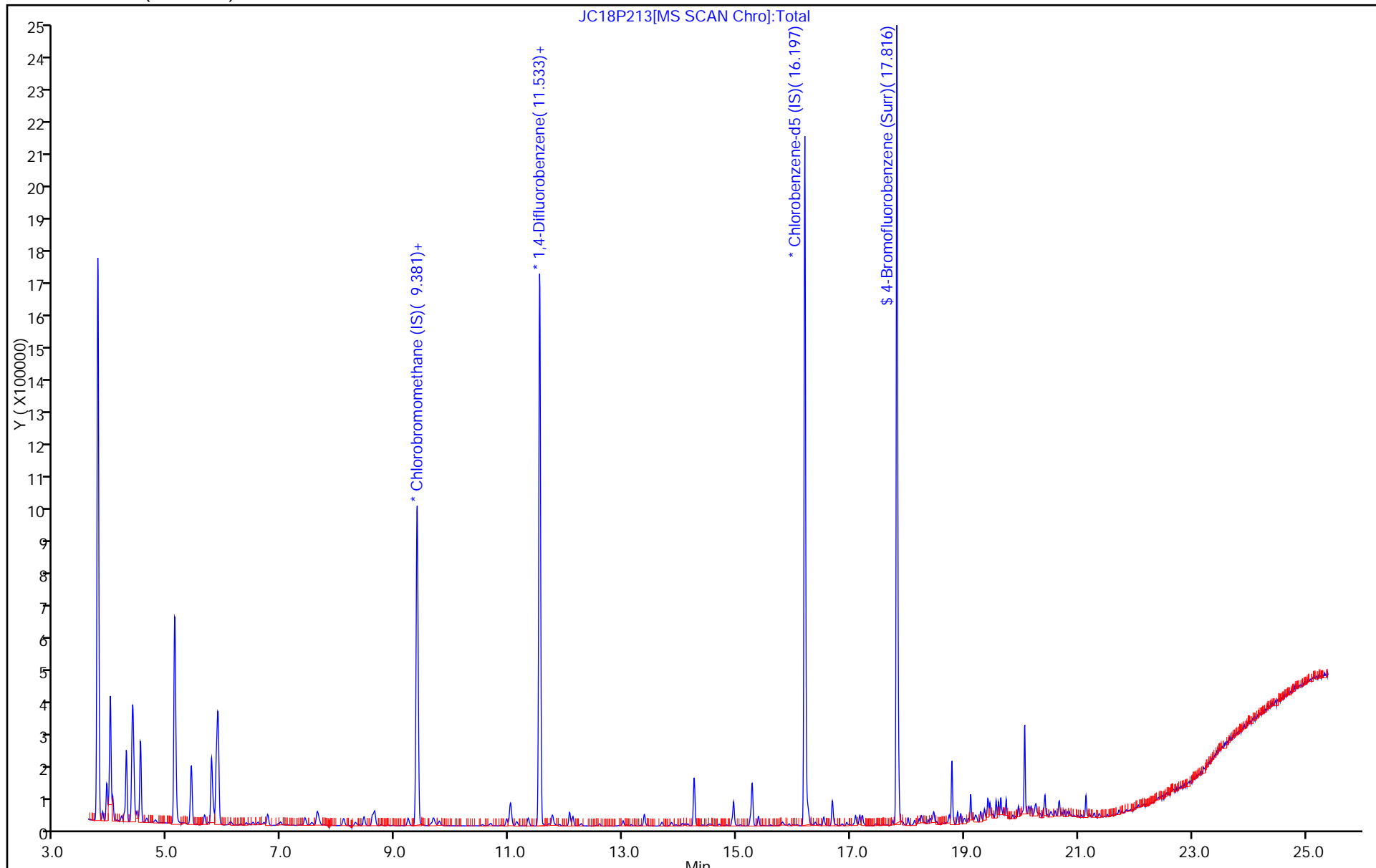
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

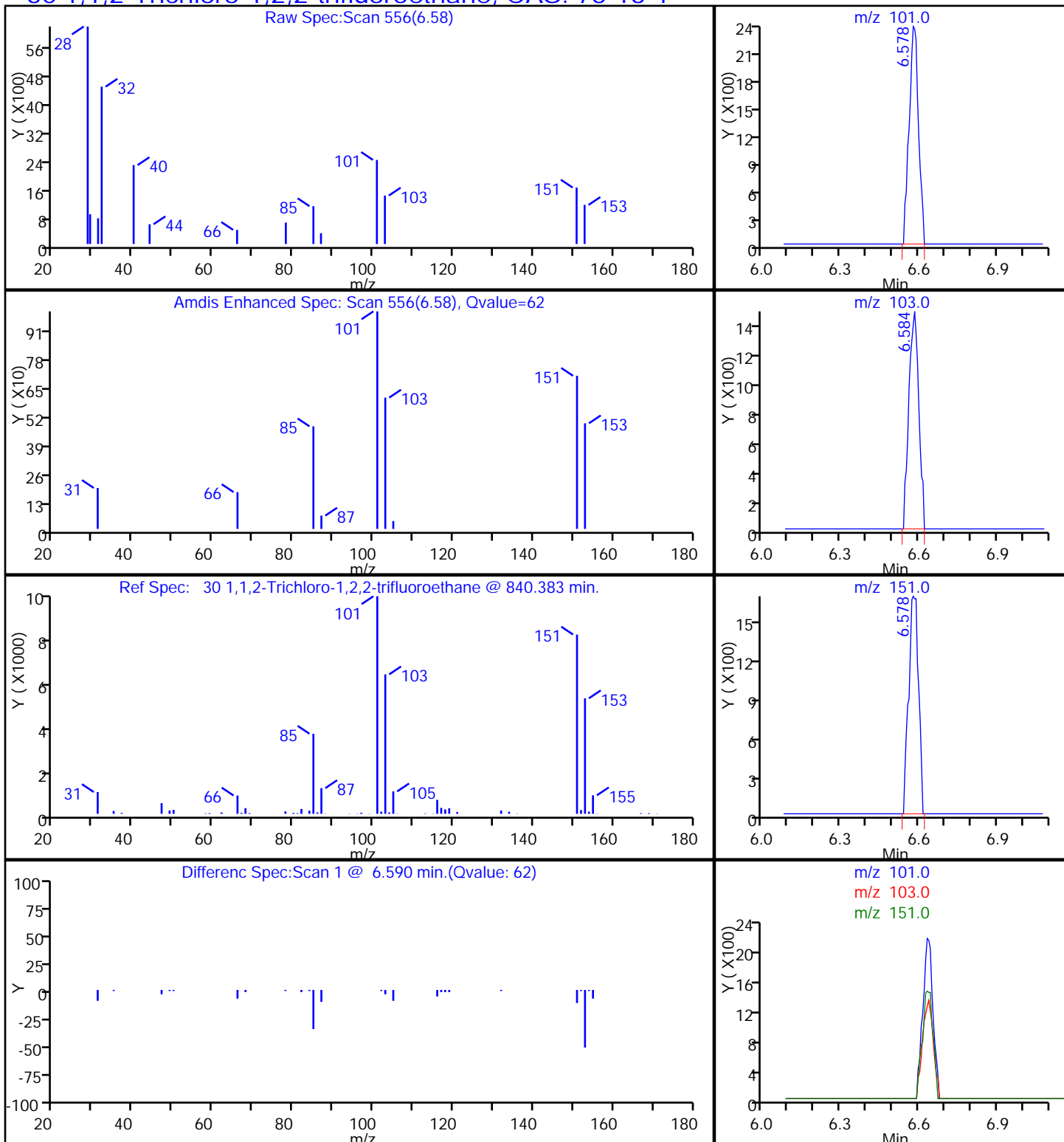
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

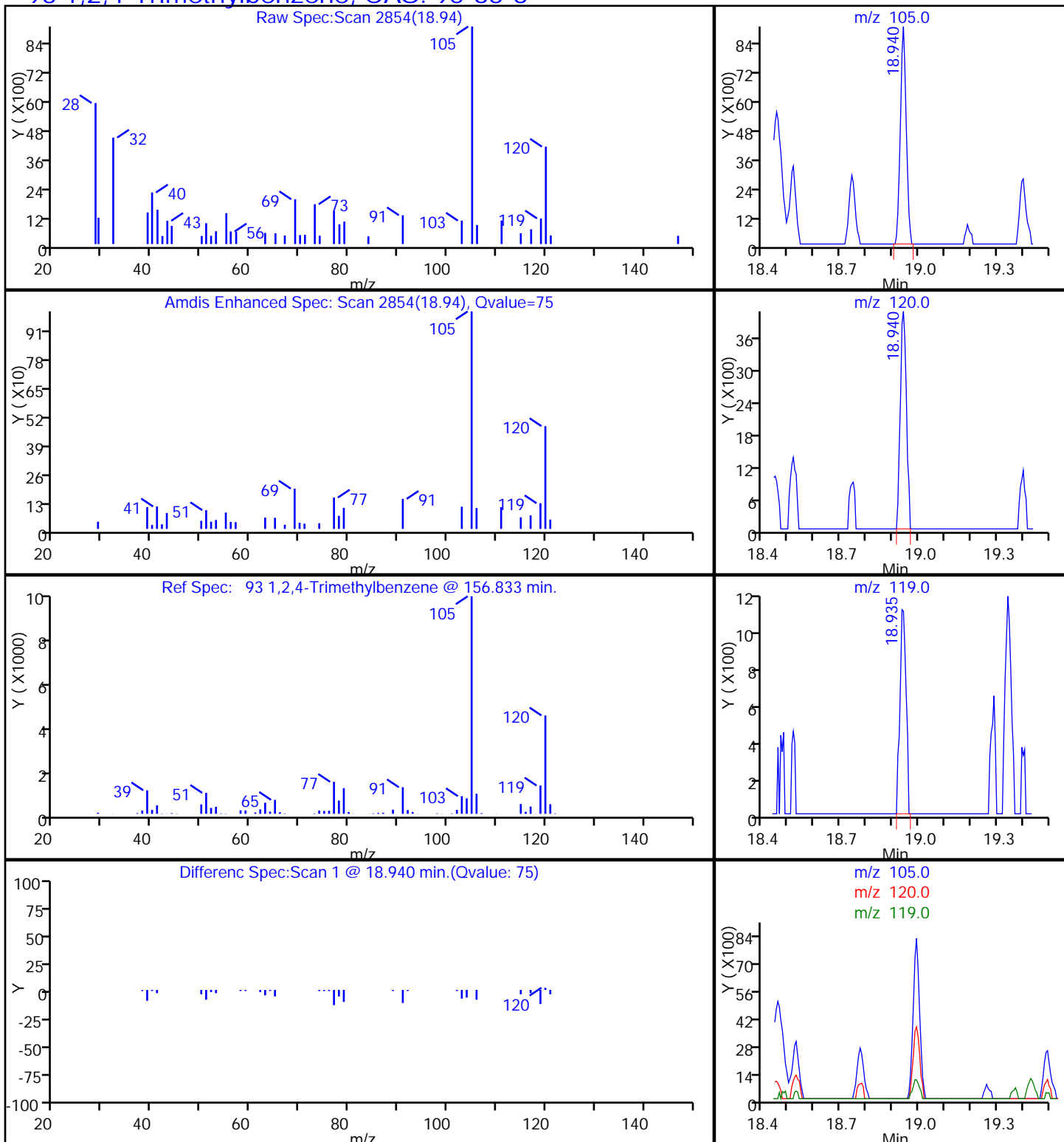
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

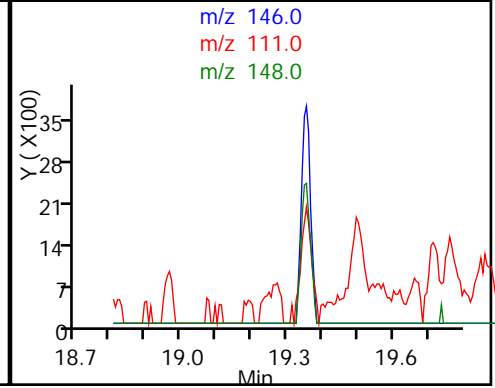
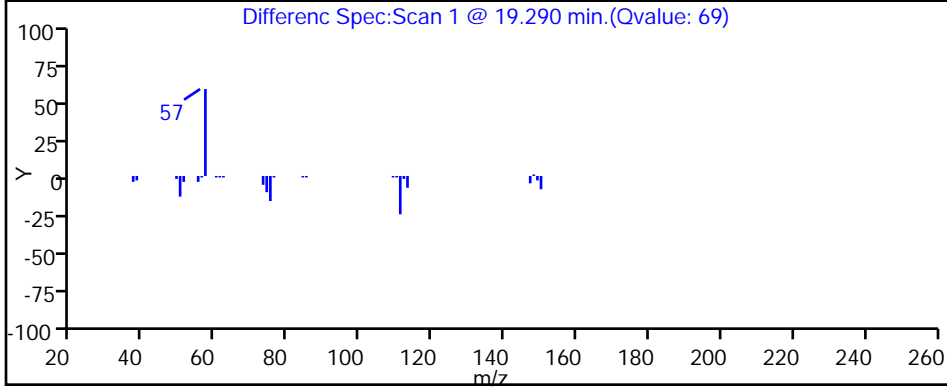
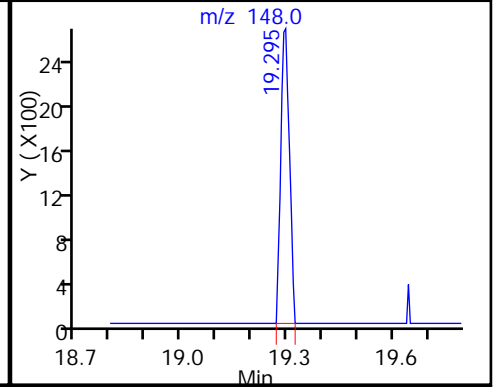
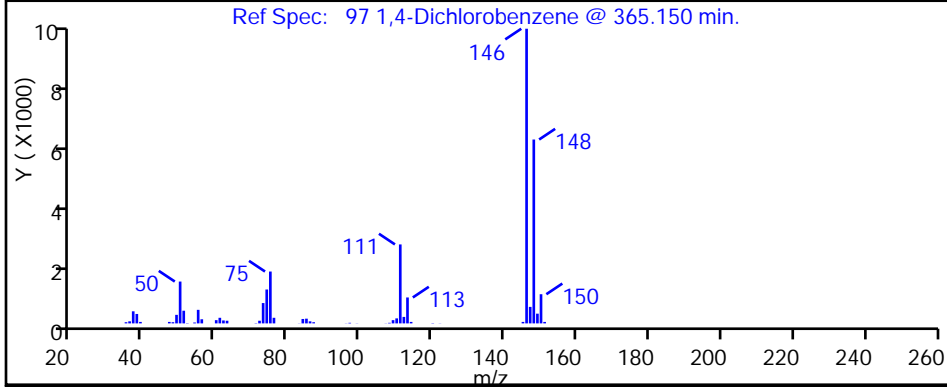
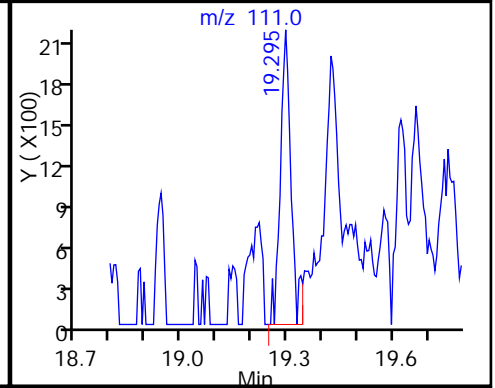
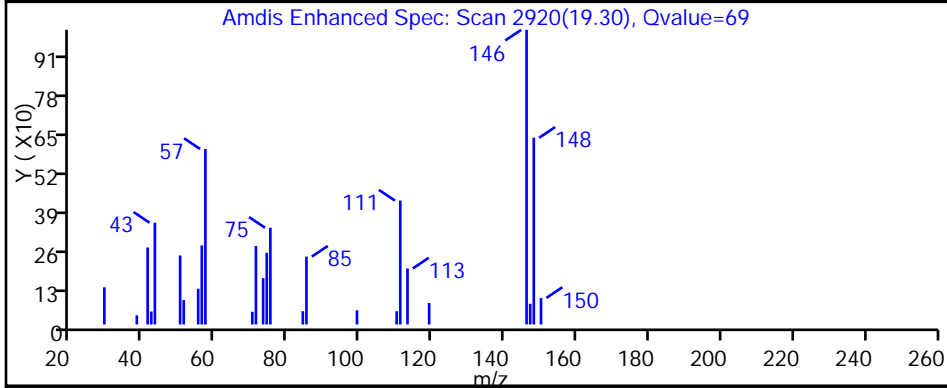
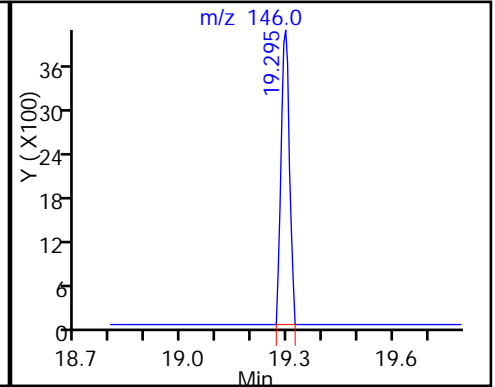
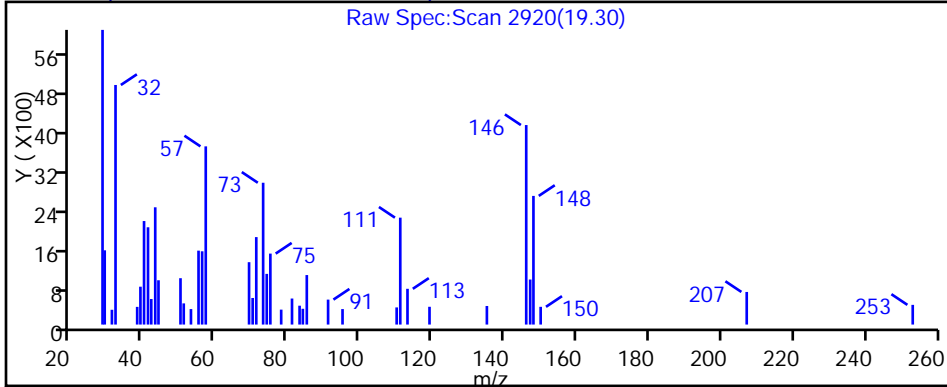
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

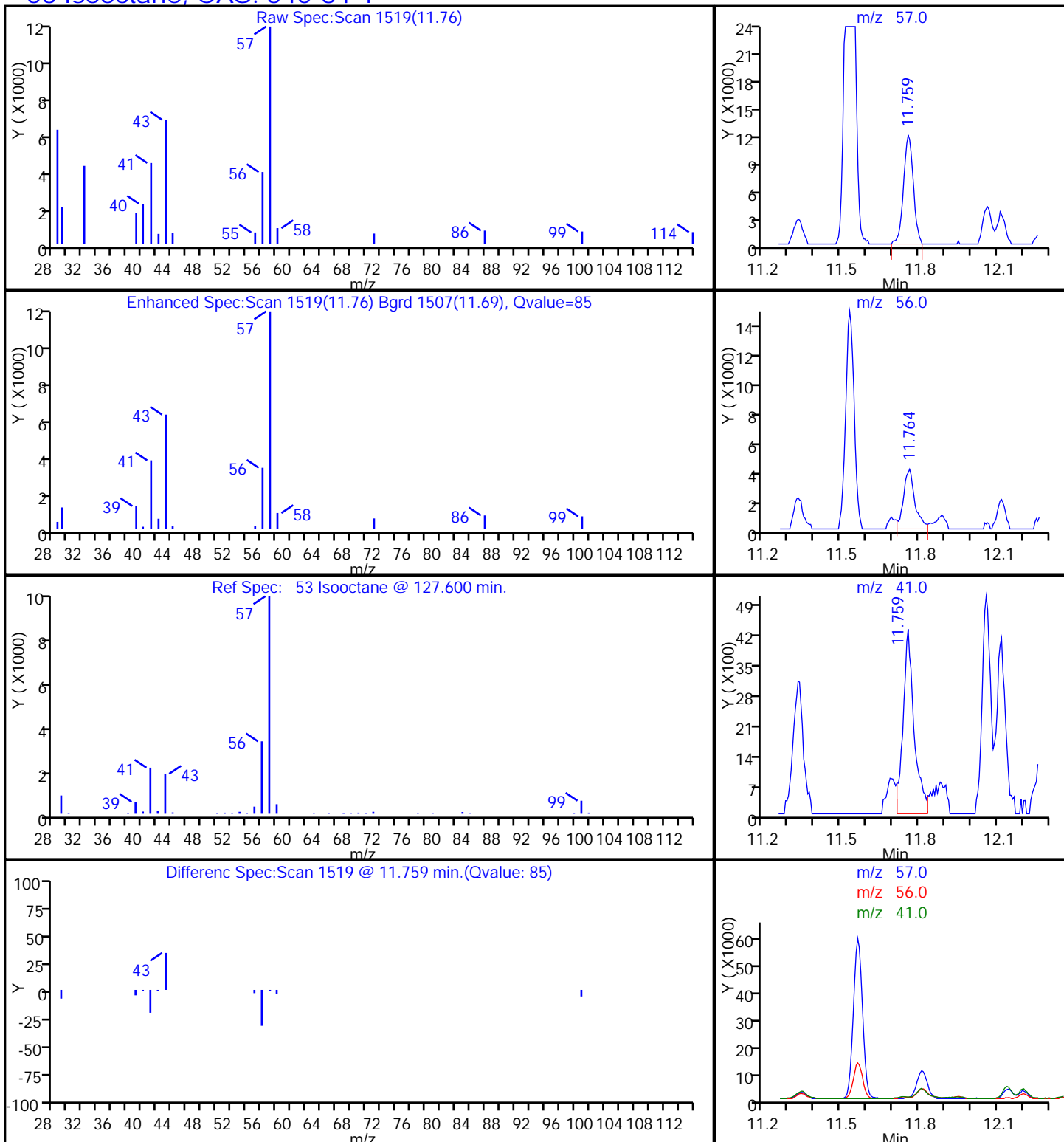
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

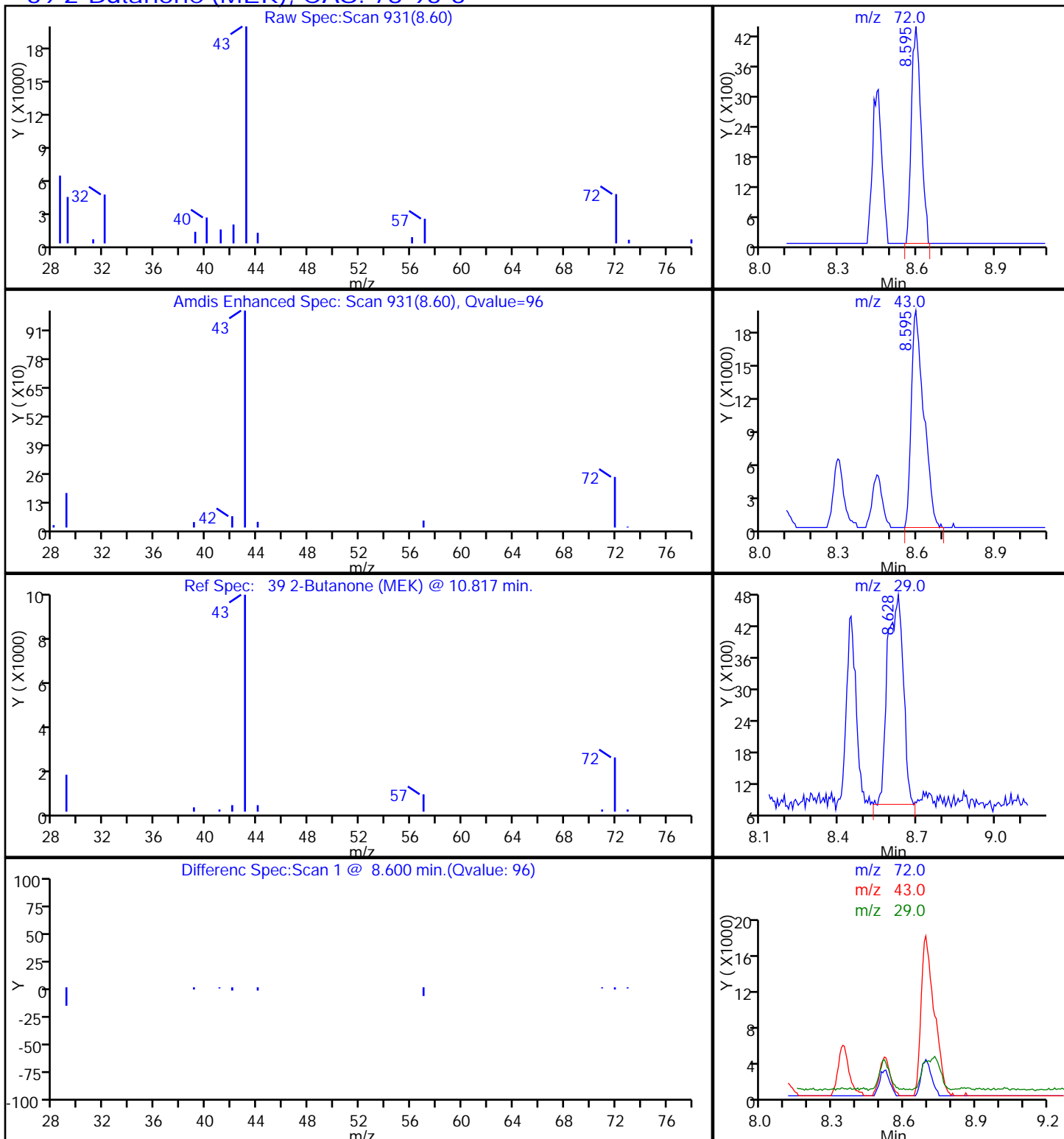
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

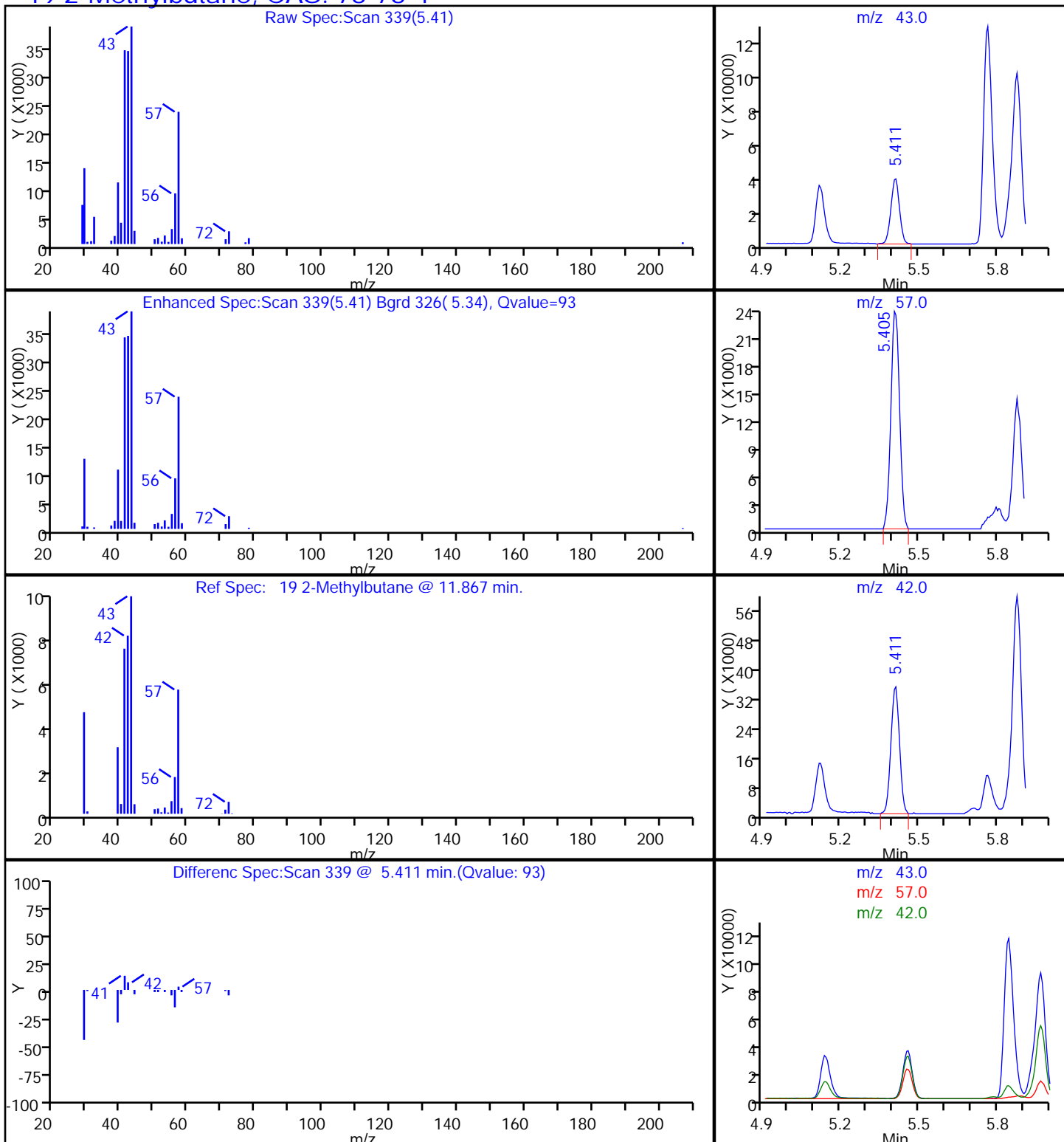
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

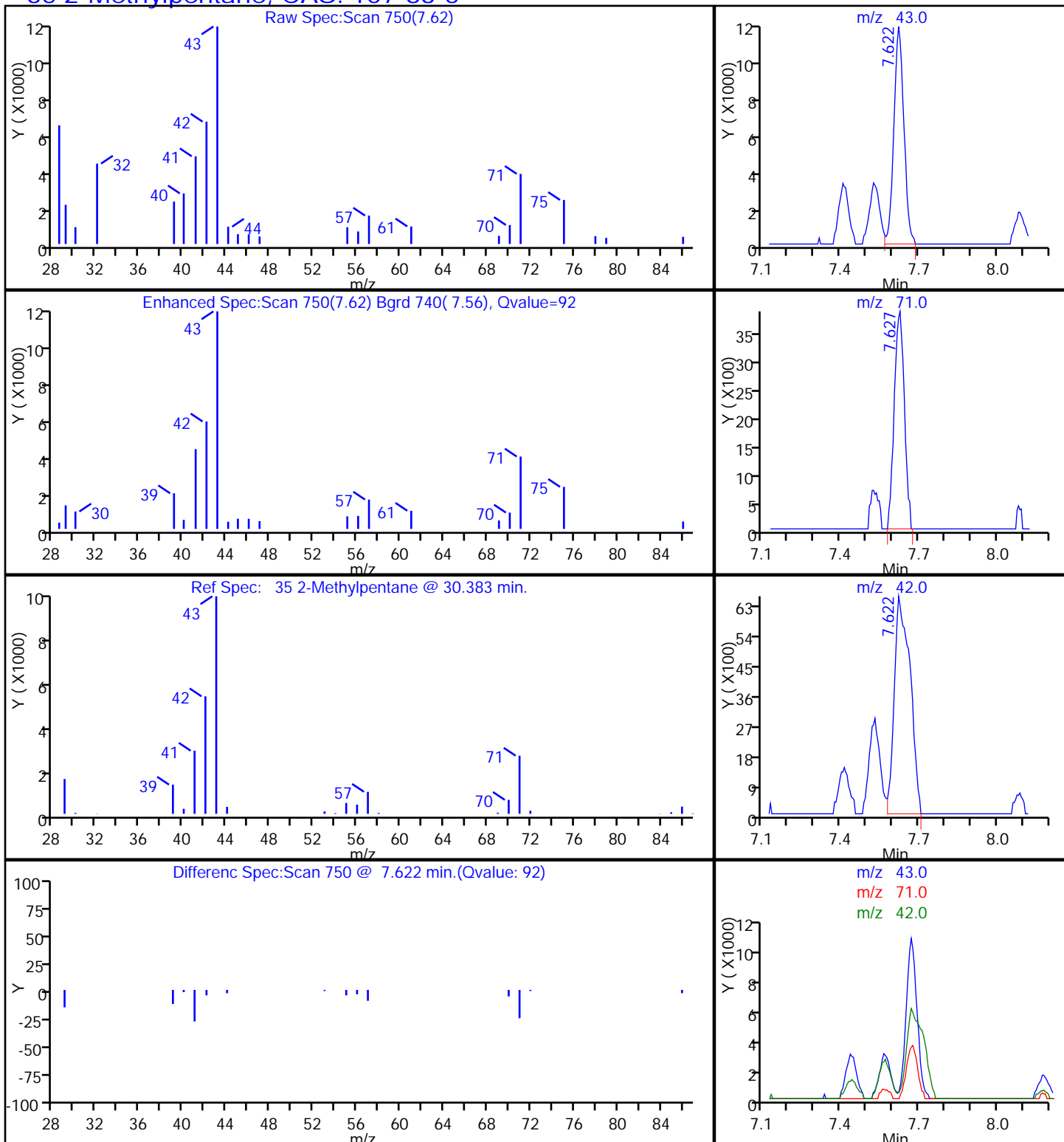
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

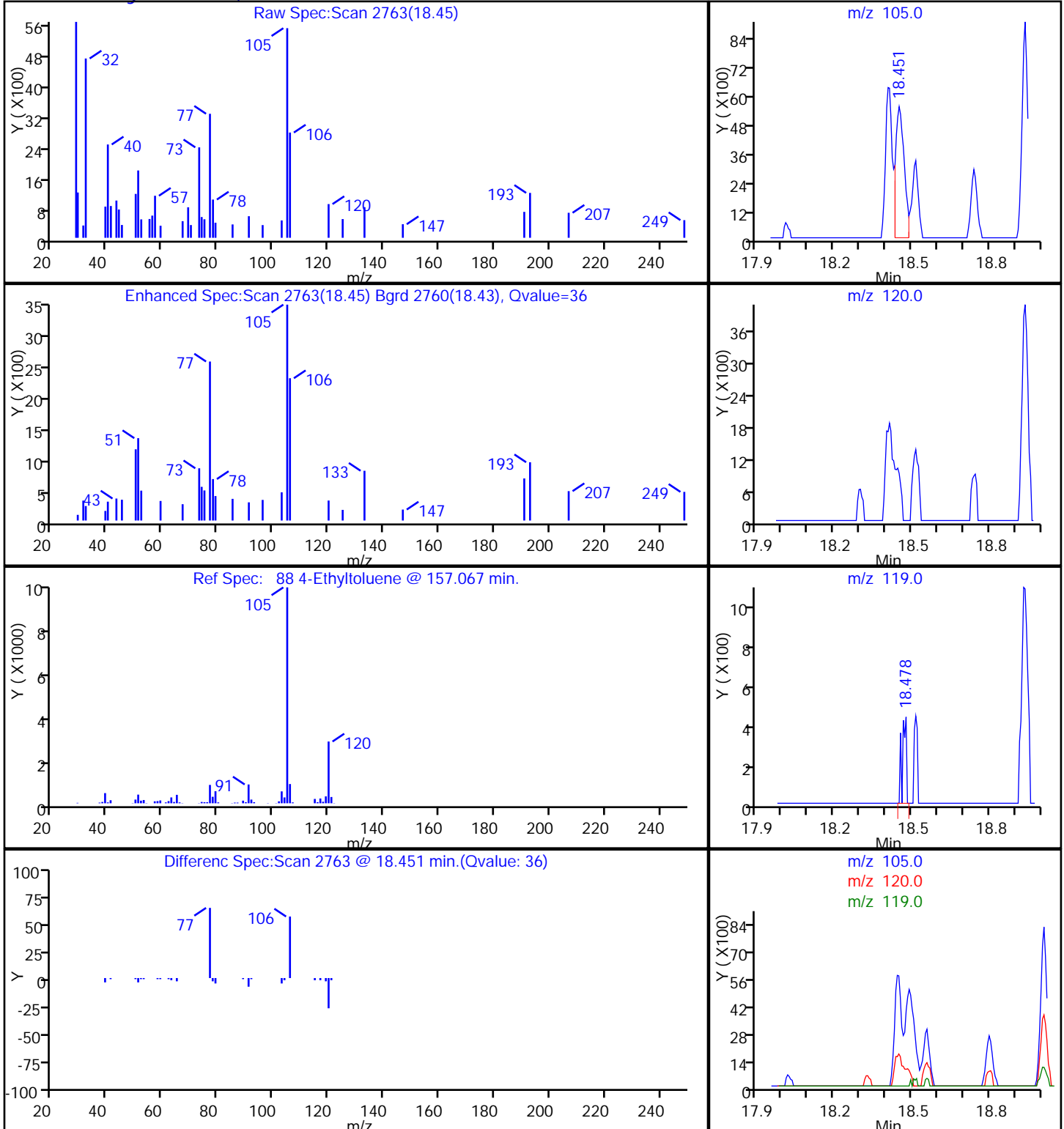
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

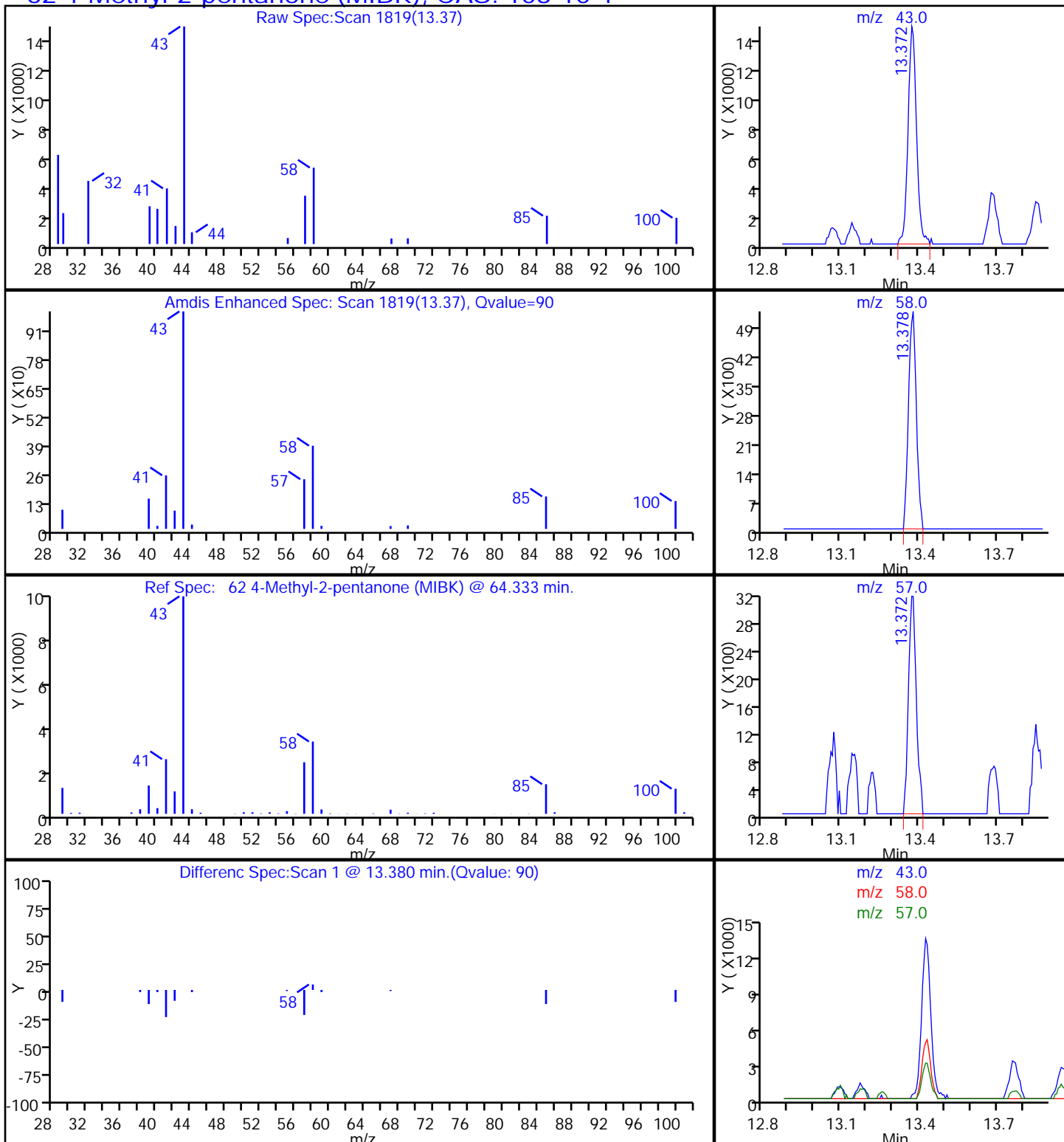
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

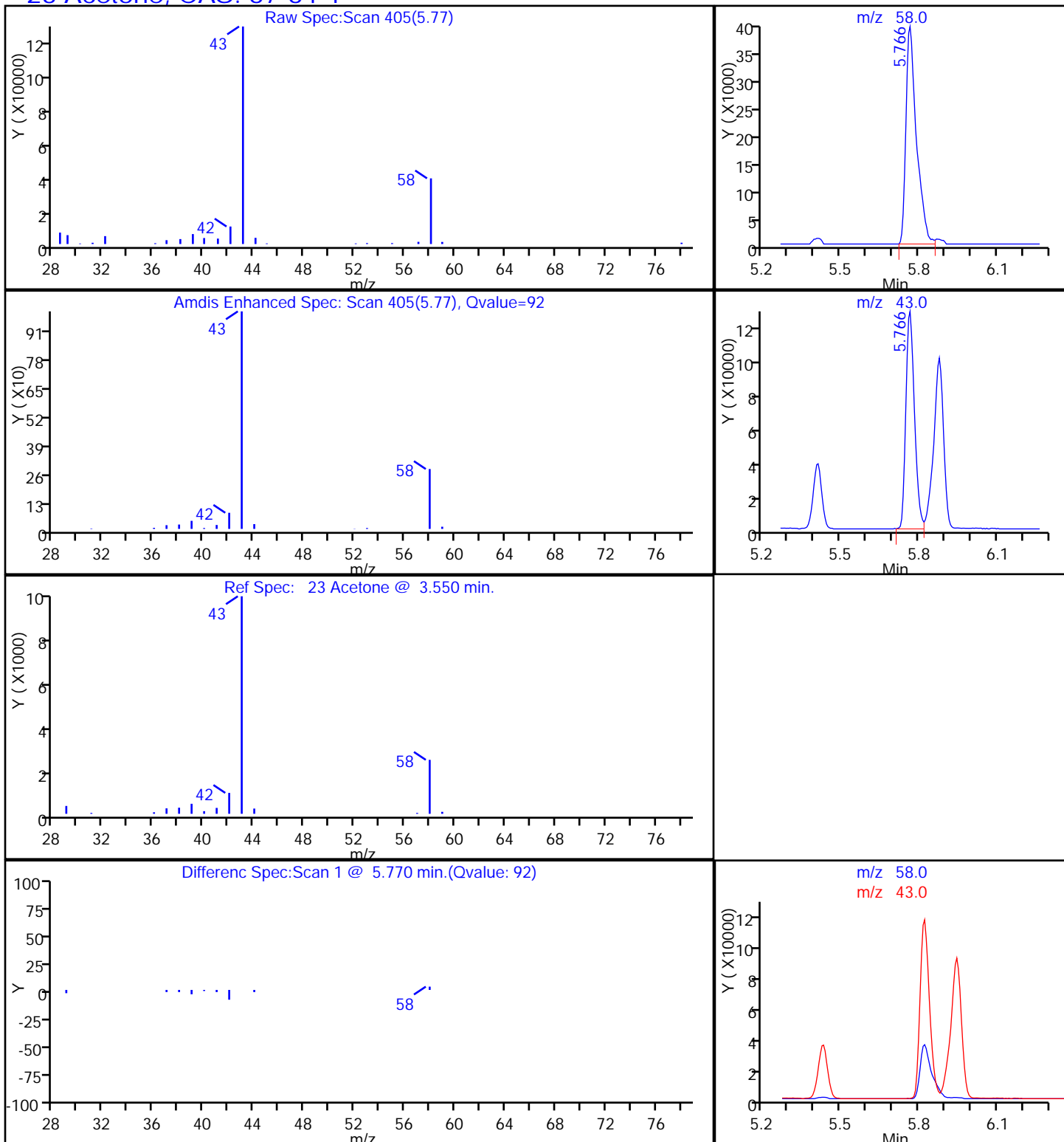
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

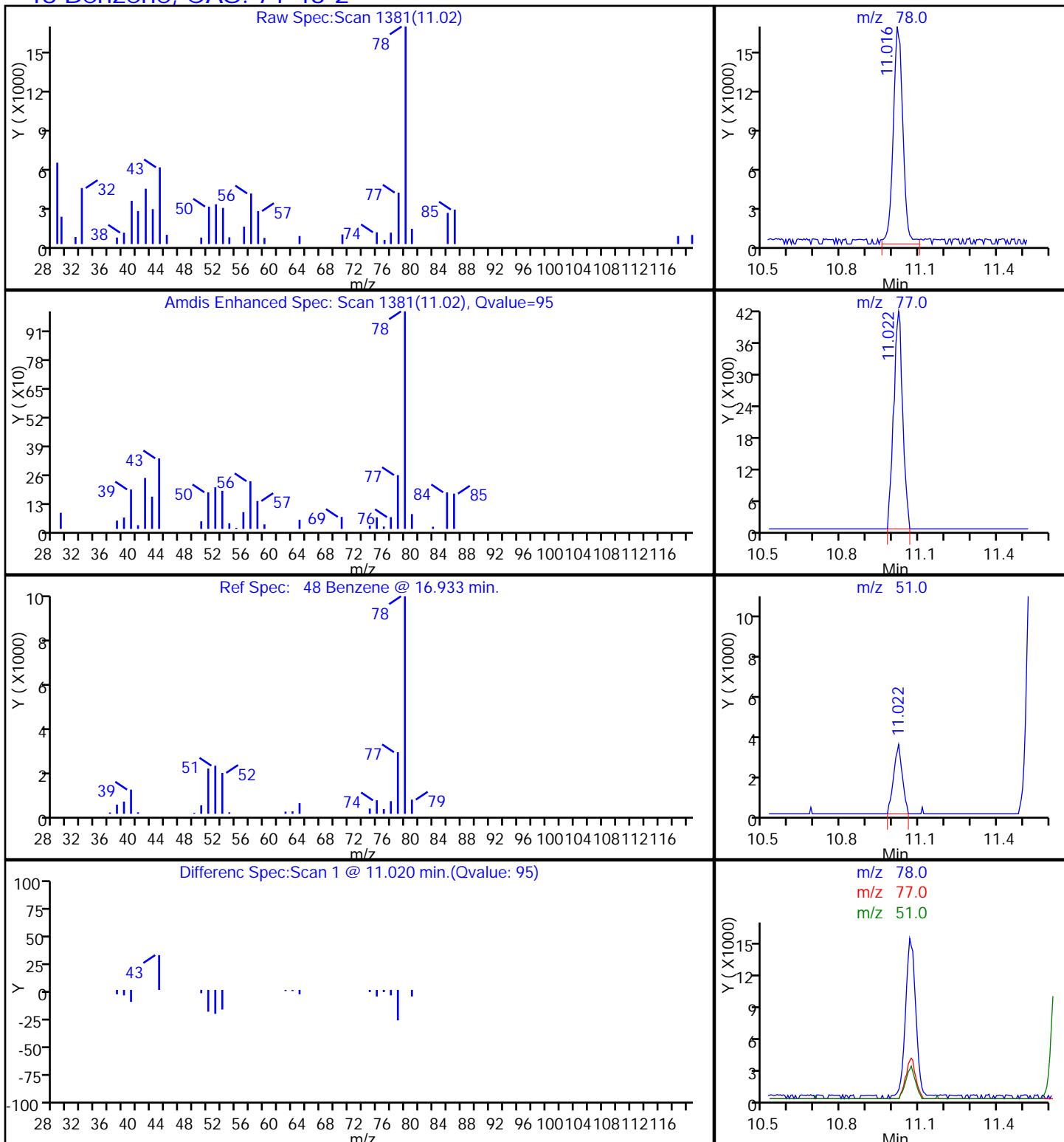
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

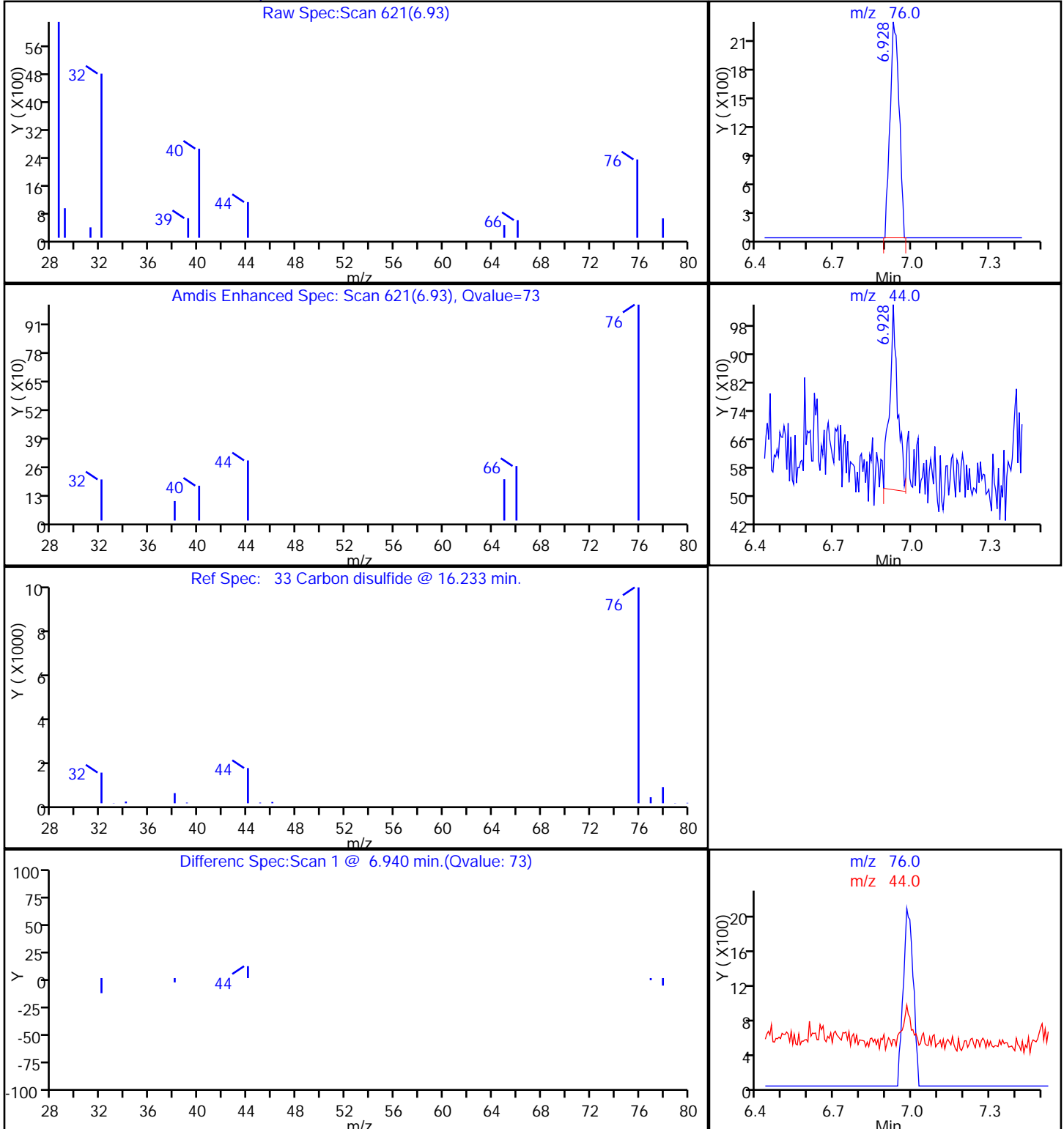
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

33 Carbon disulfide, CAS: 75-15-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

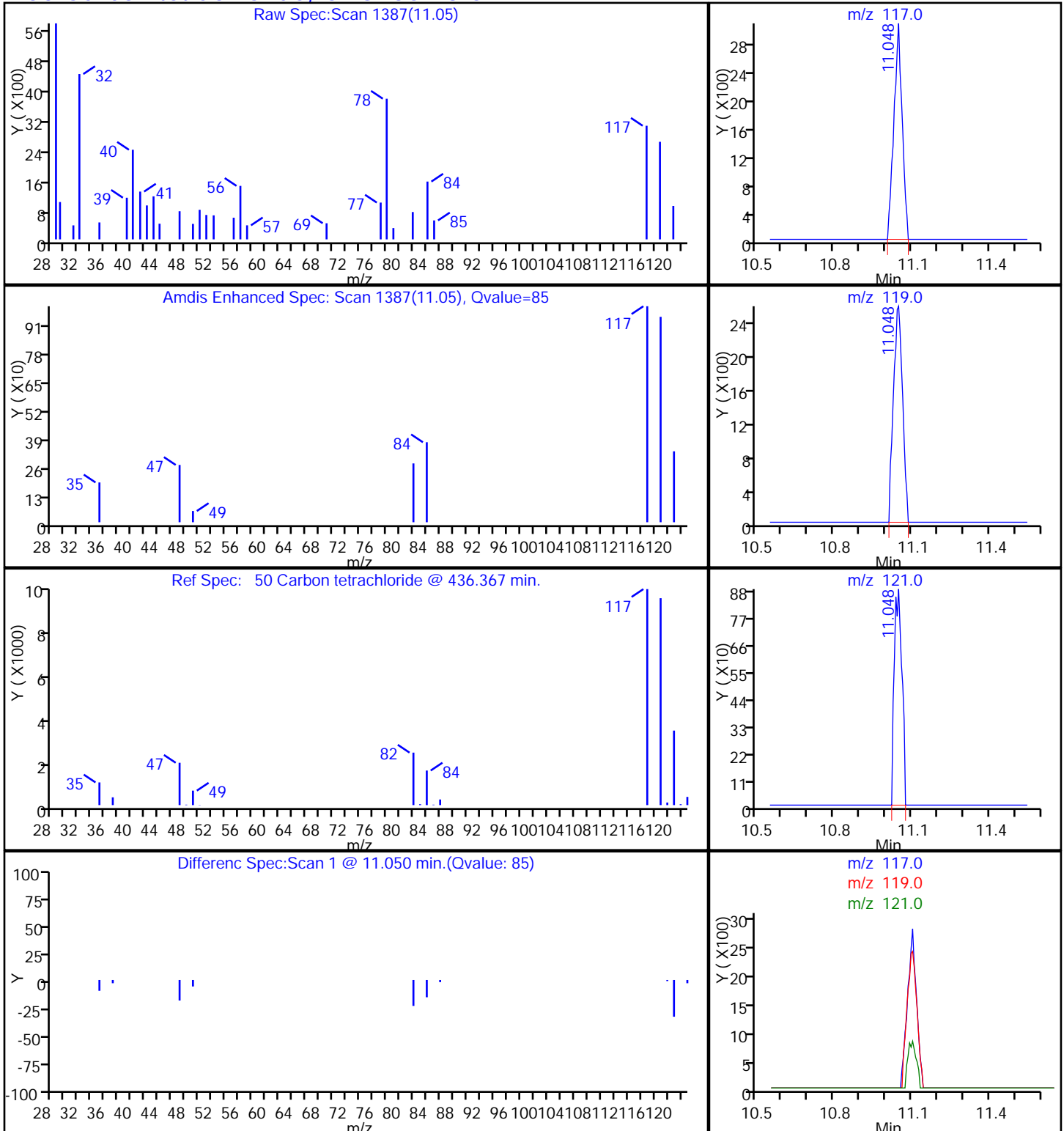
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

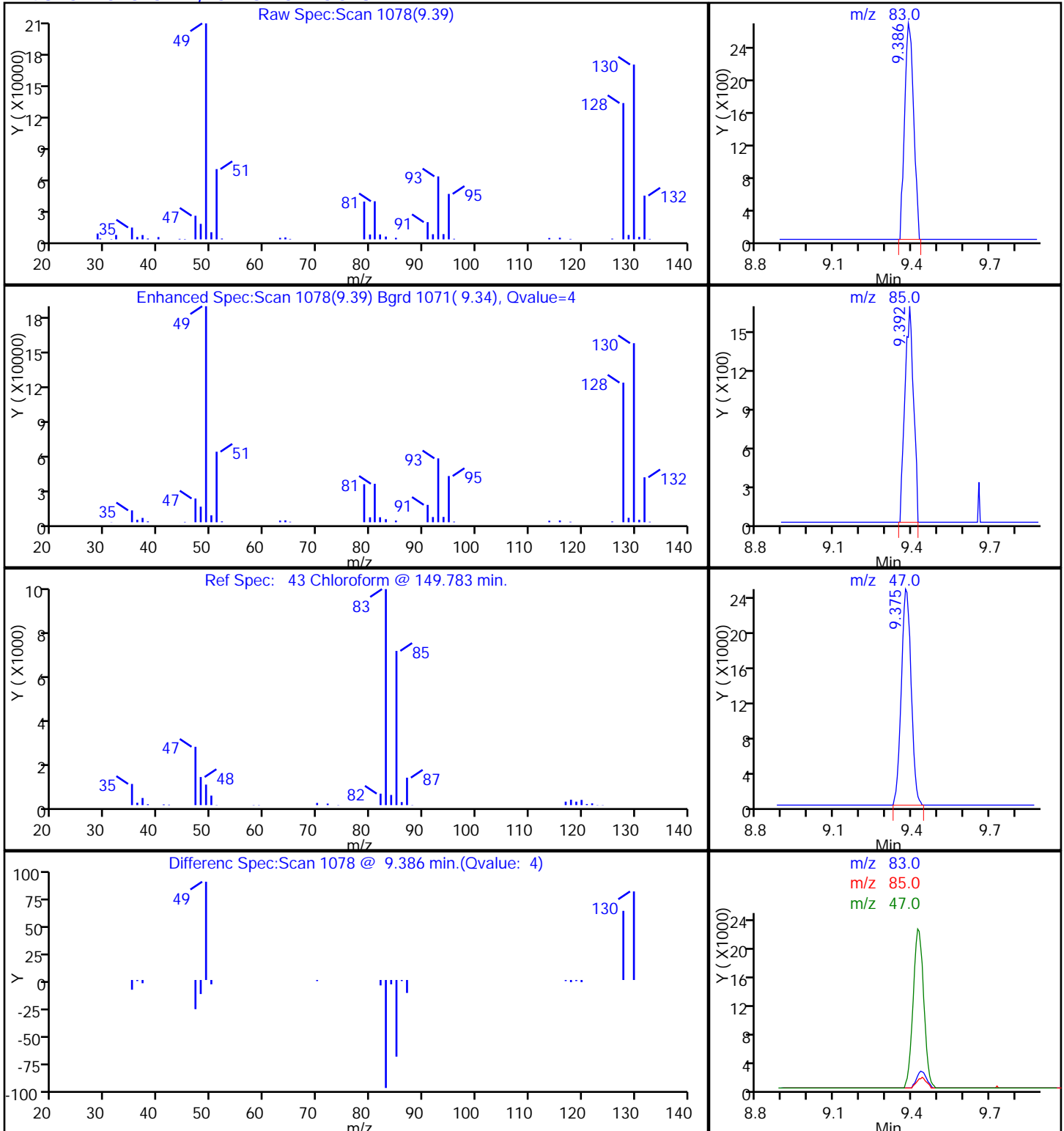
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

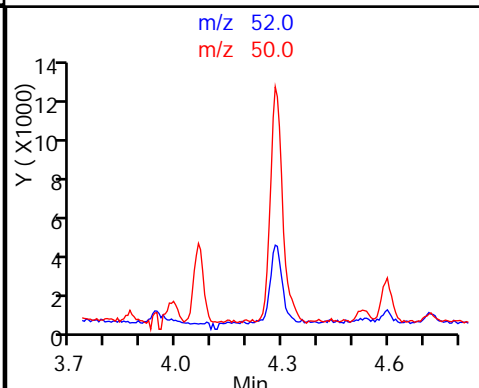
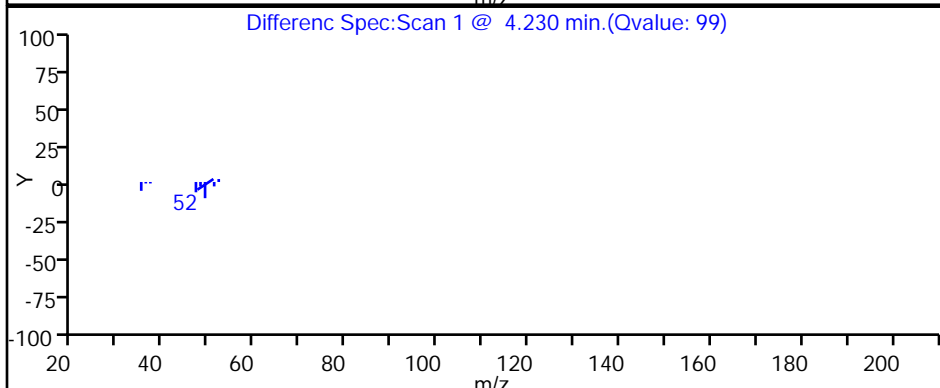
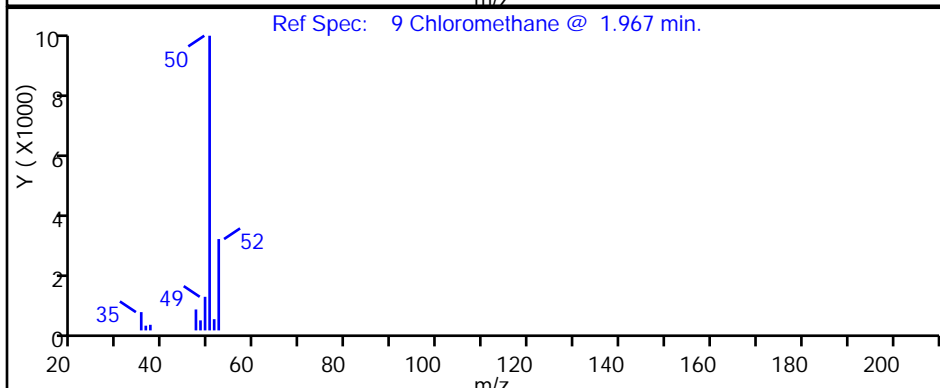
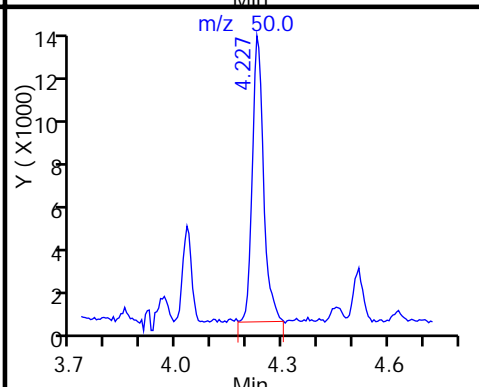
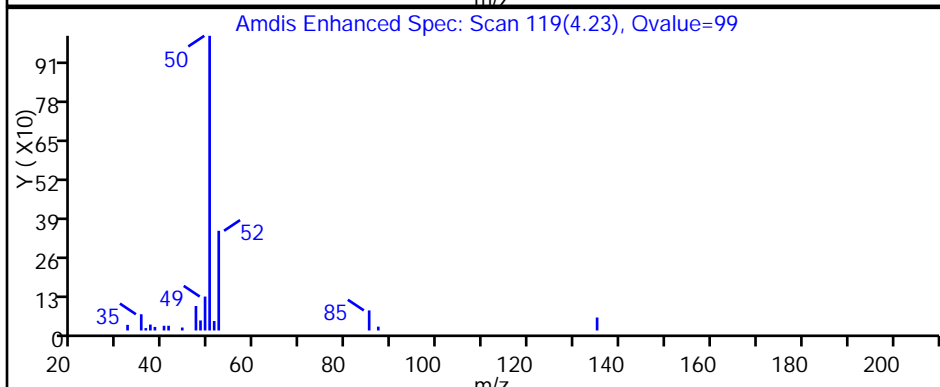
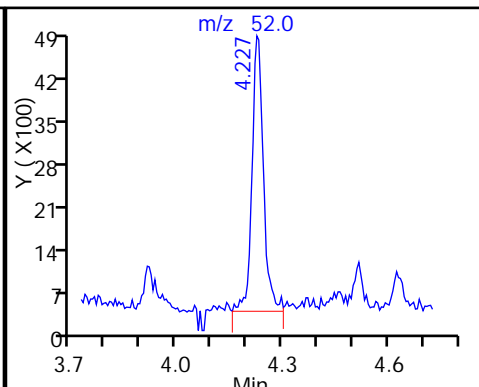
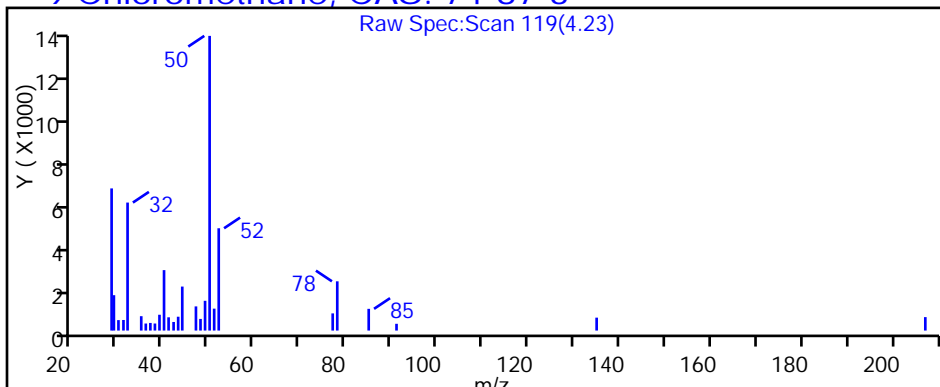
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

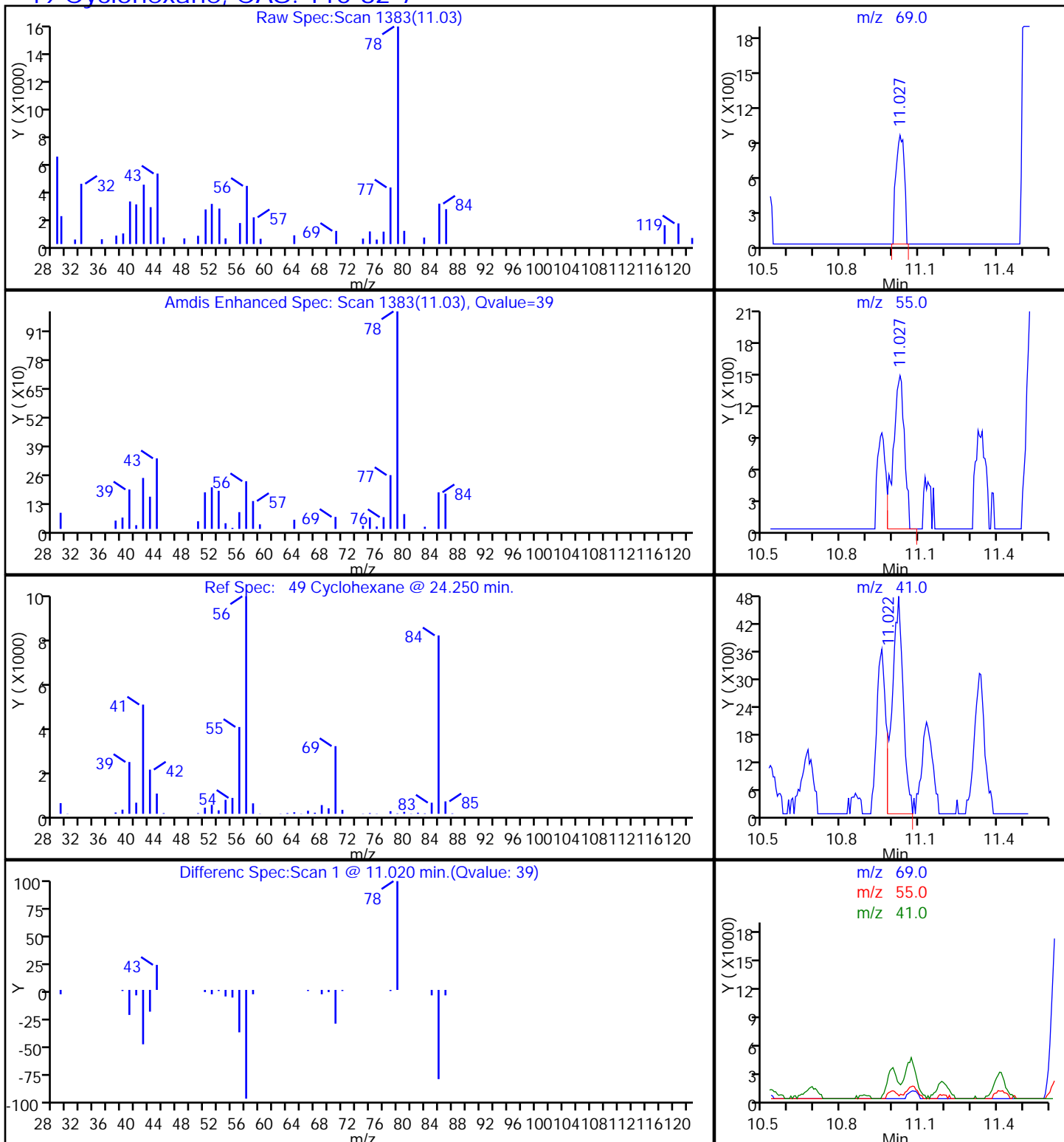
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

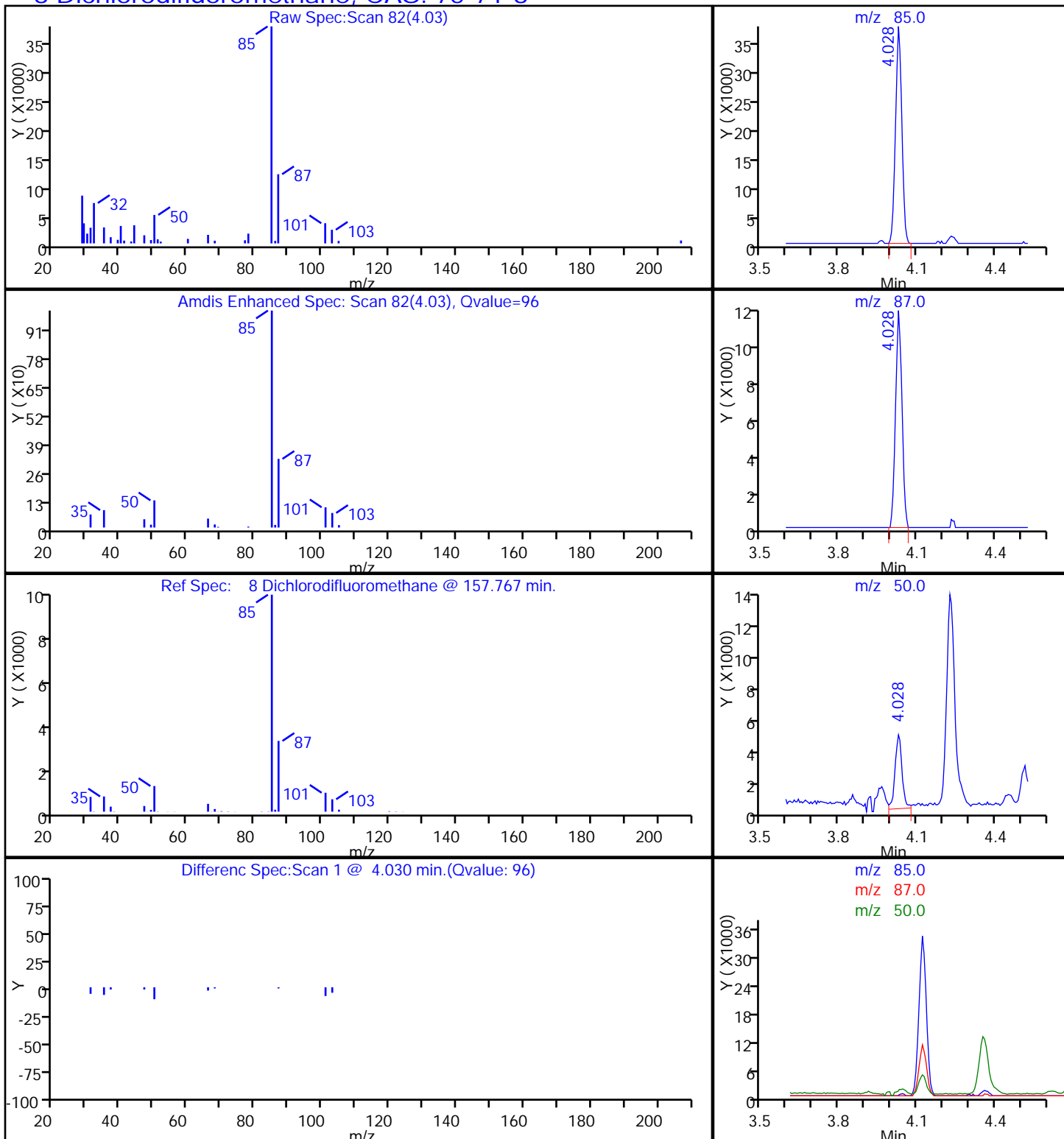
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

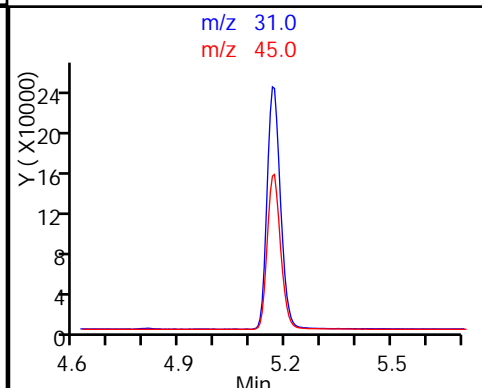
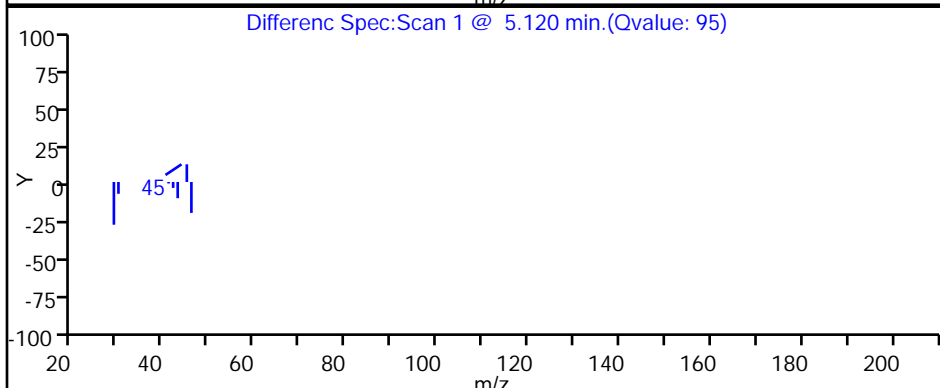
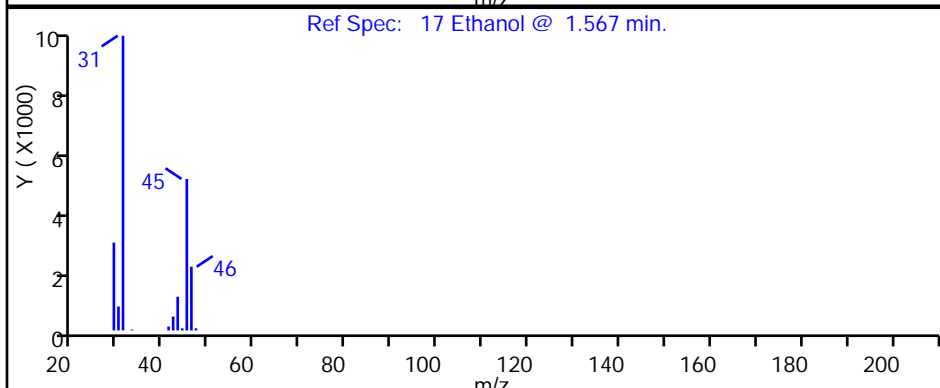
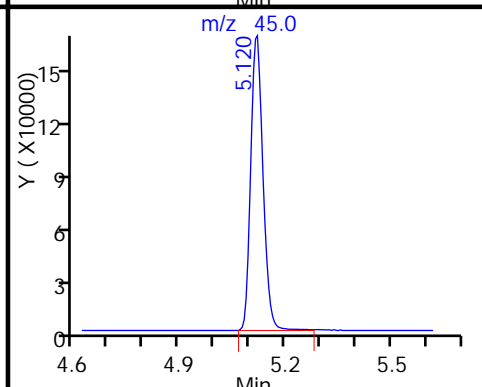
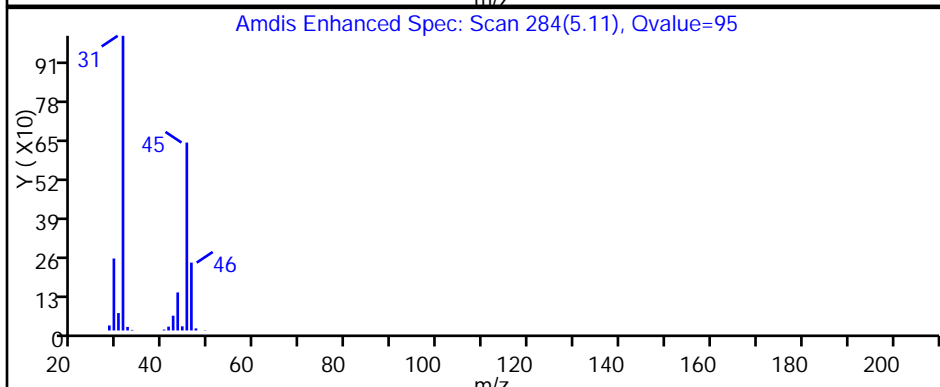
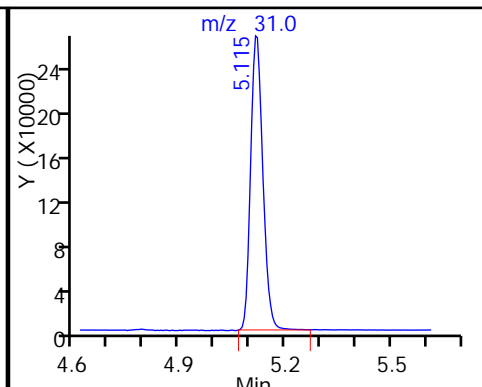
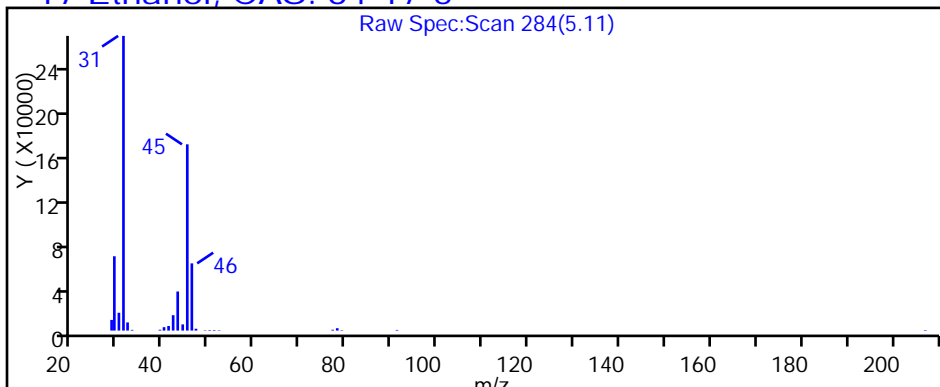
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

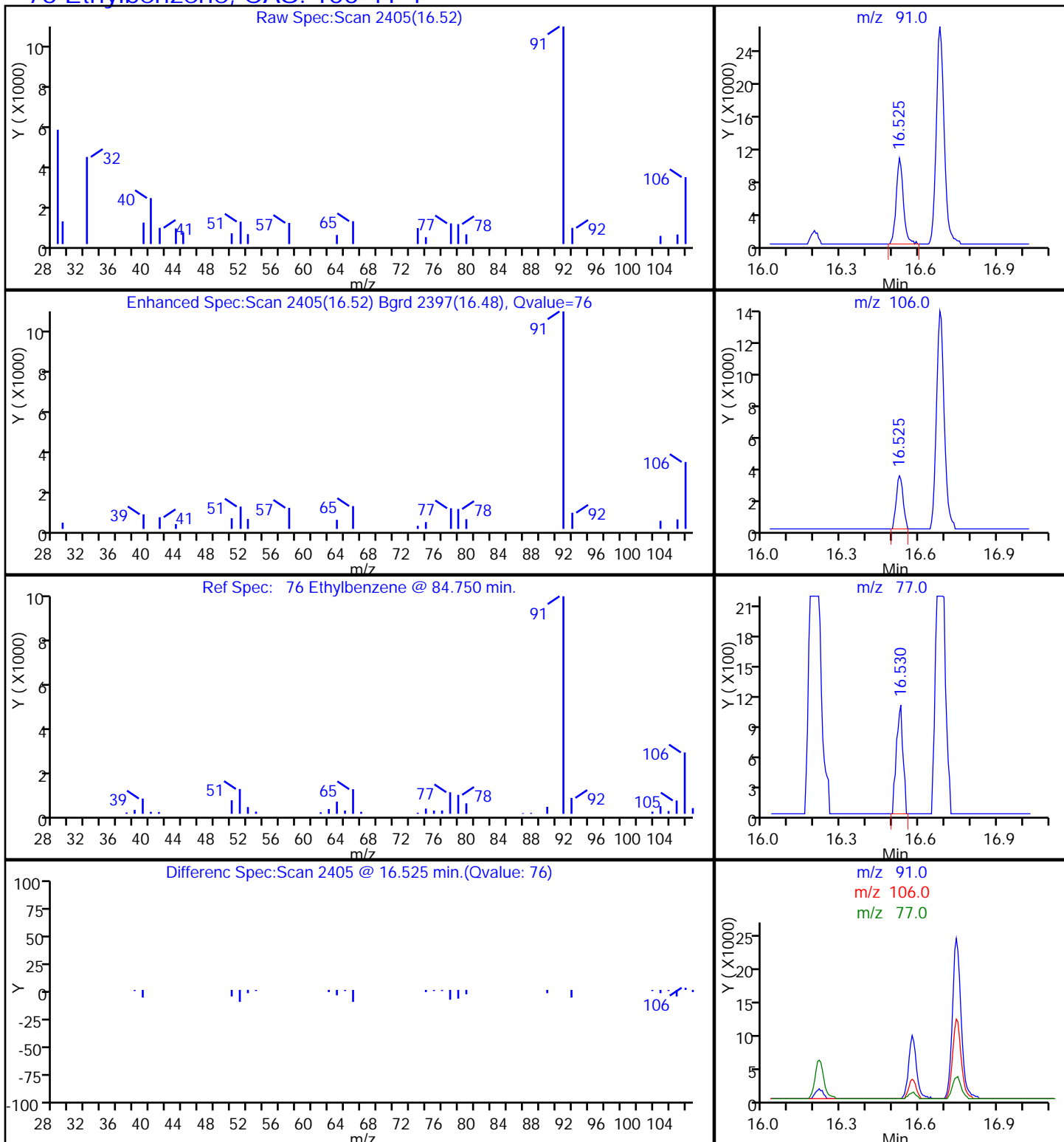
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

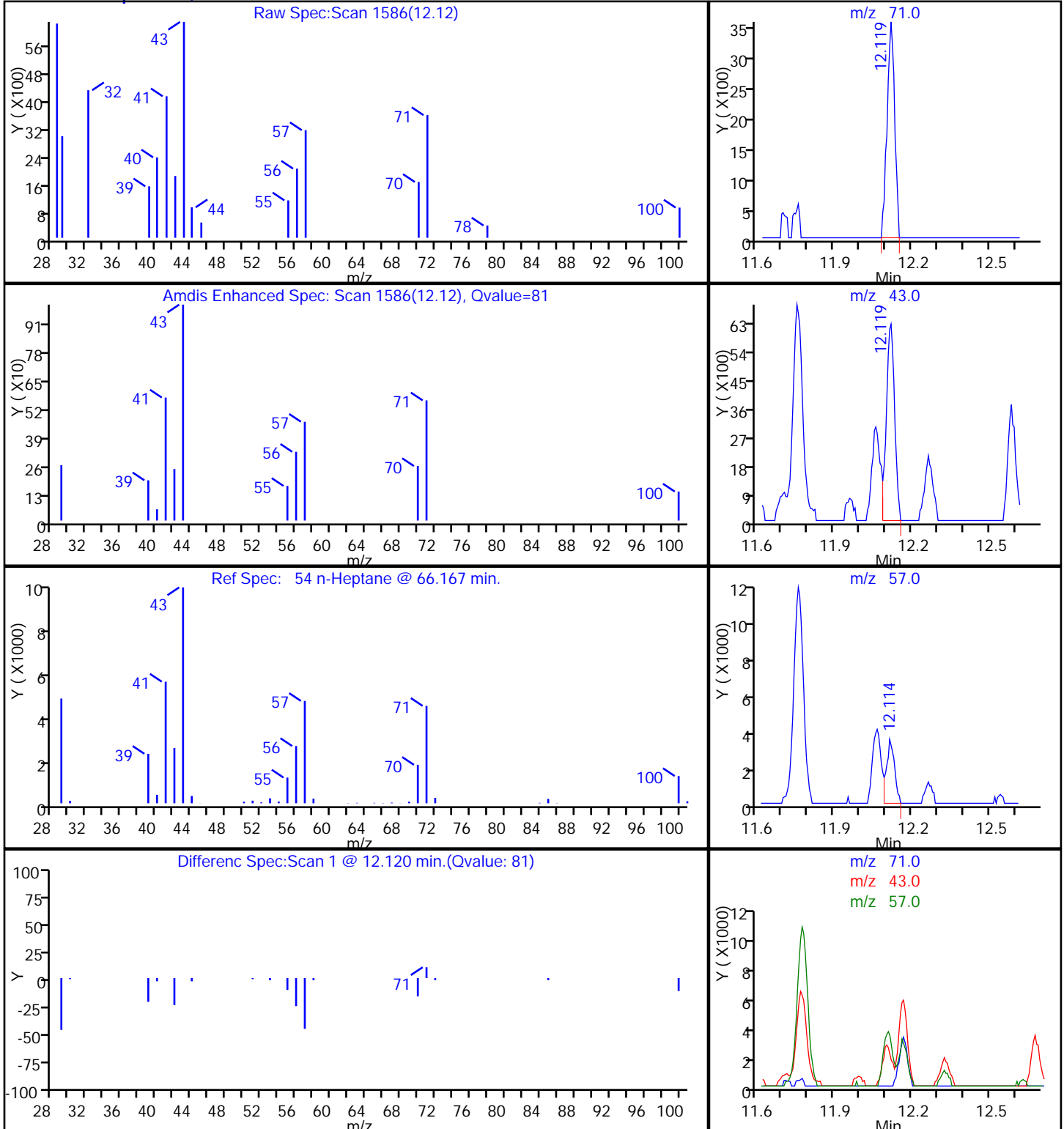
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

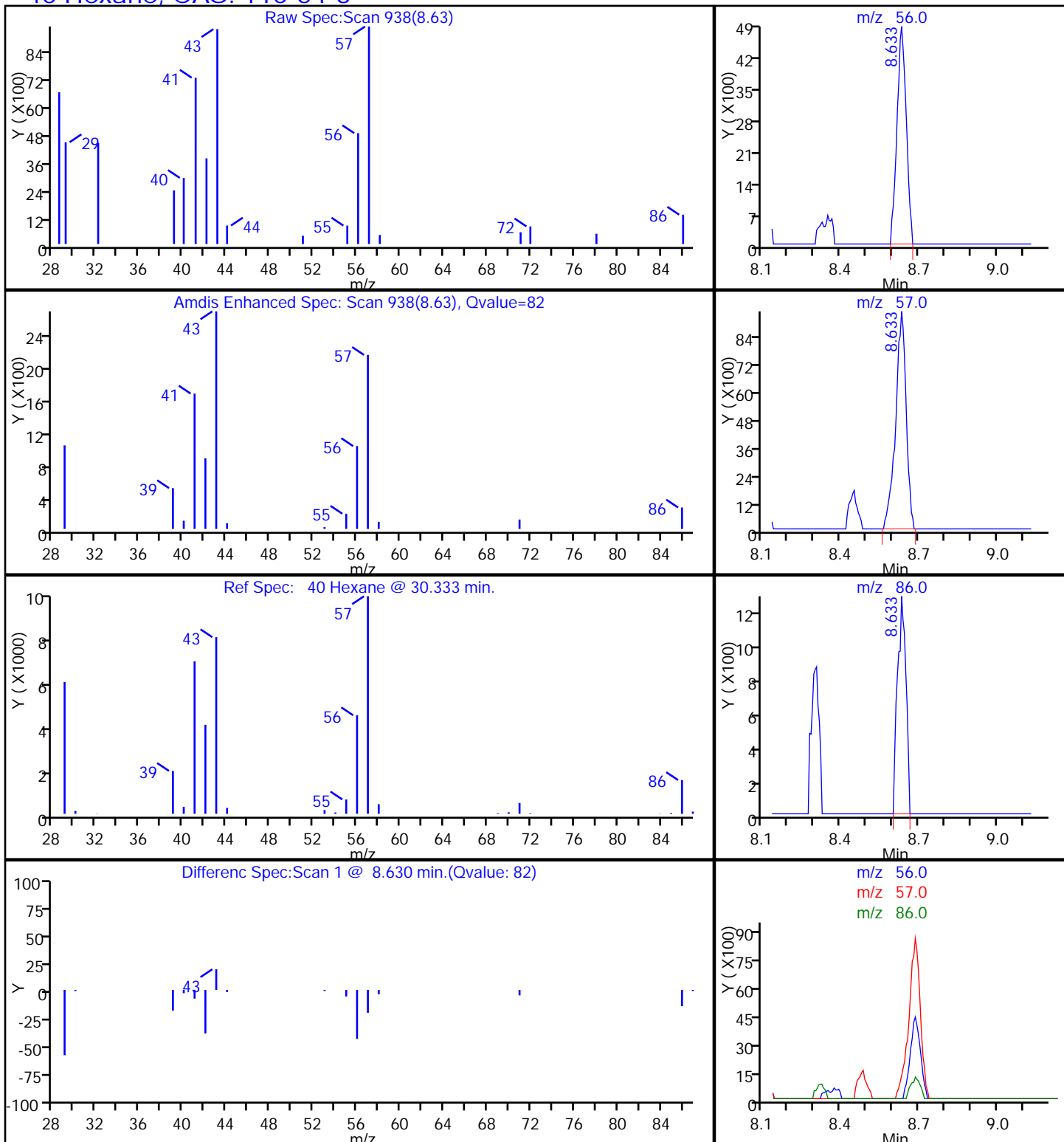
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

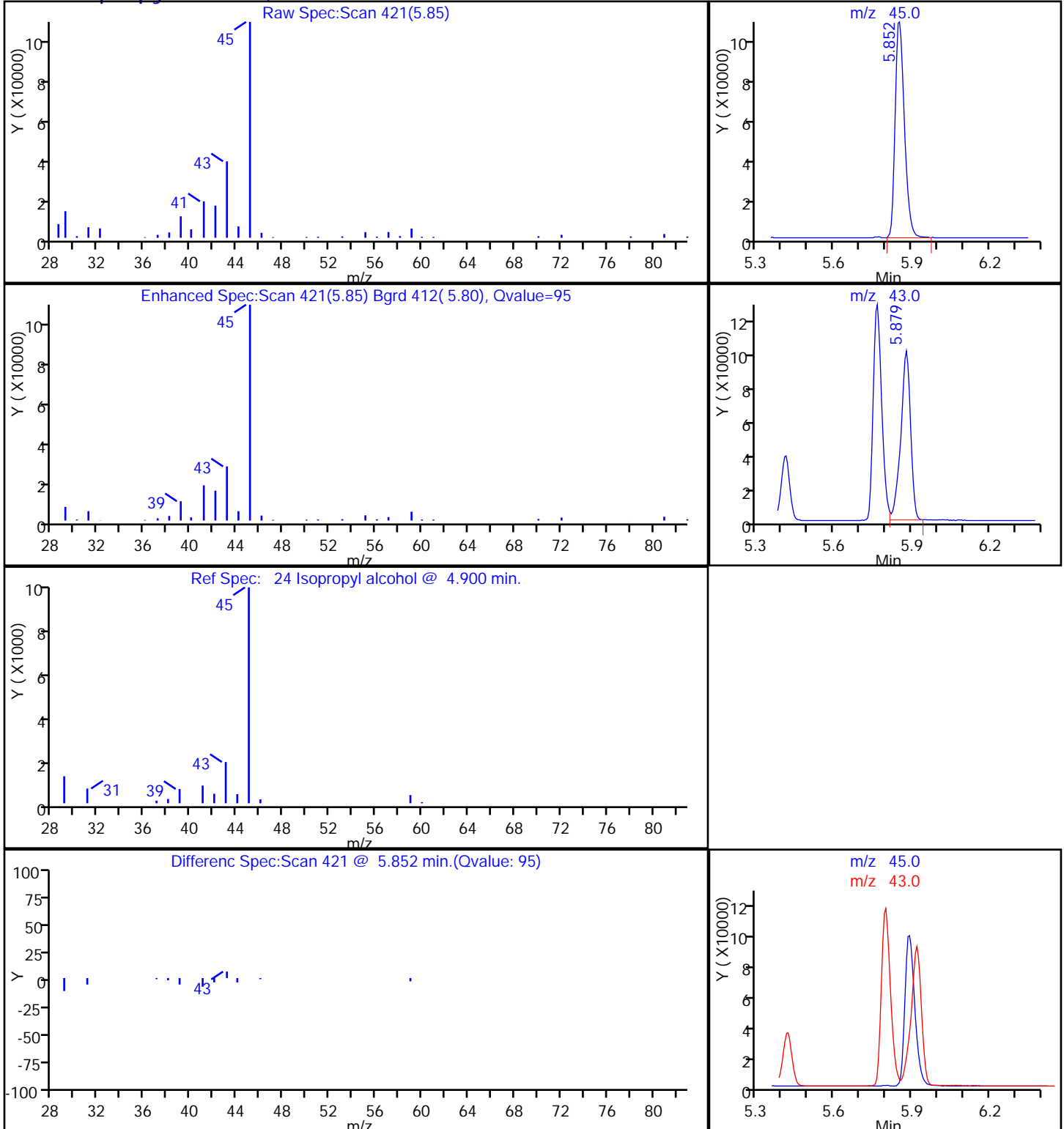
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

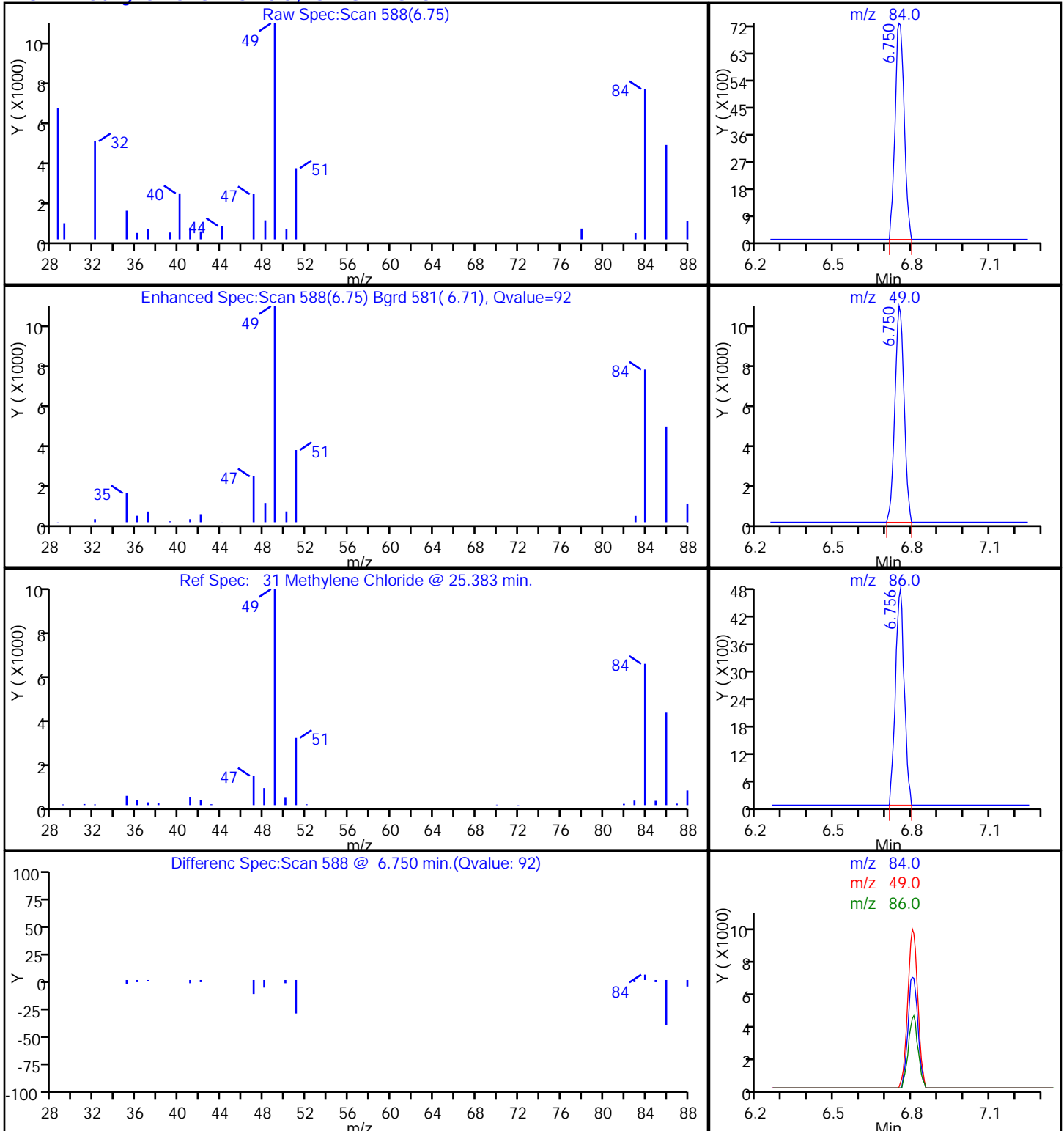
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

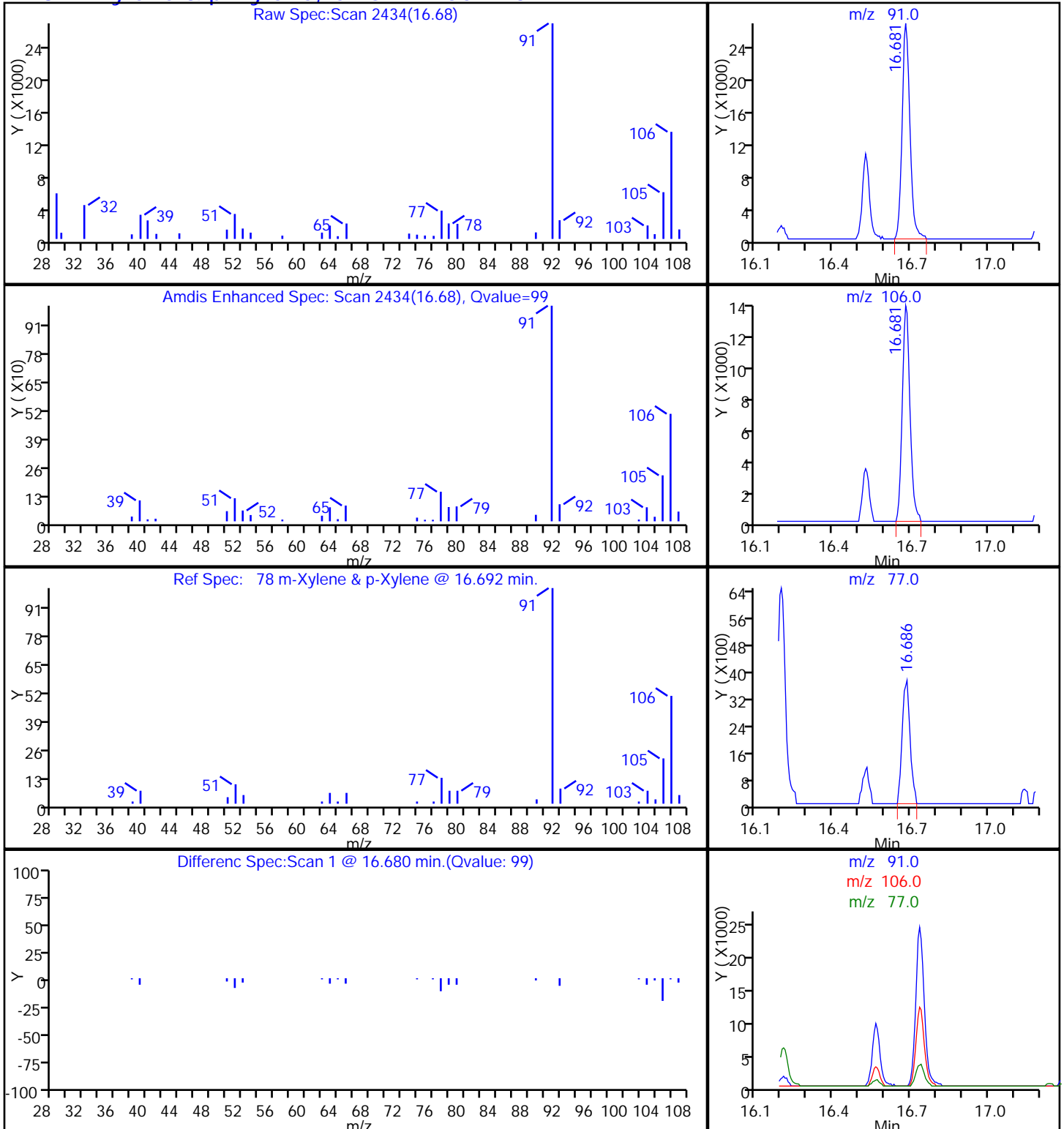
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

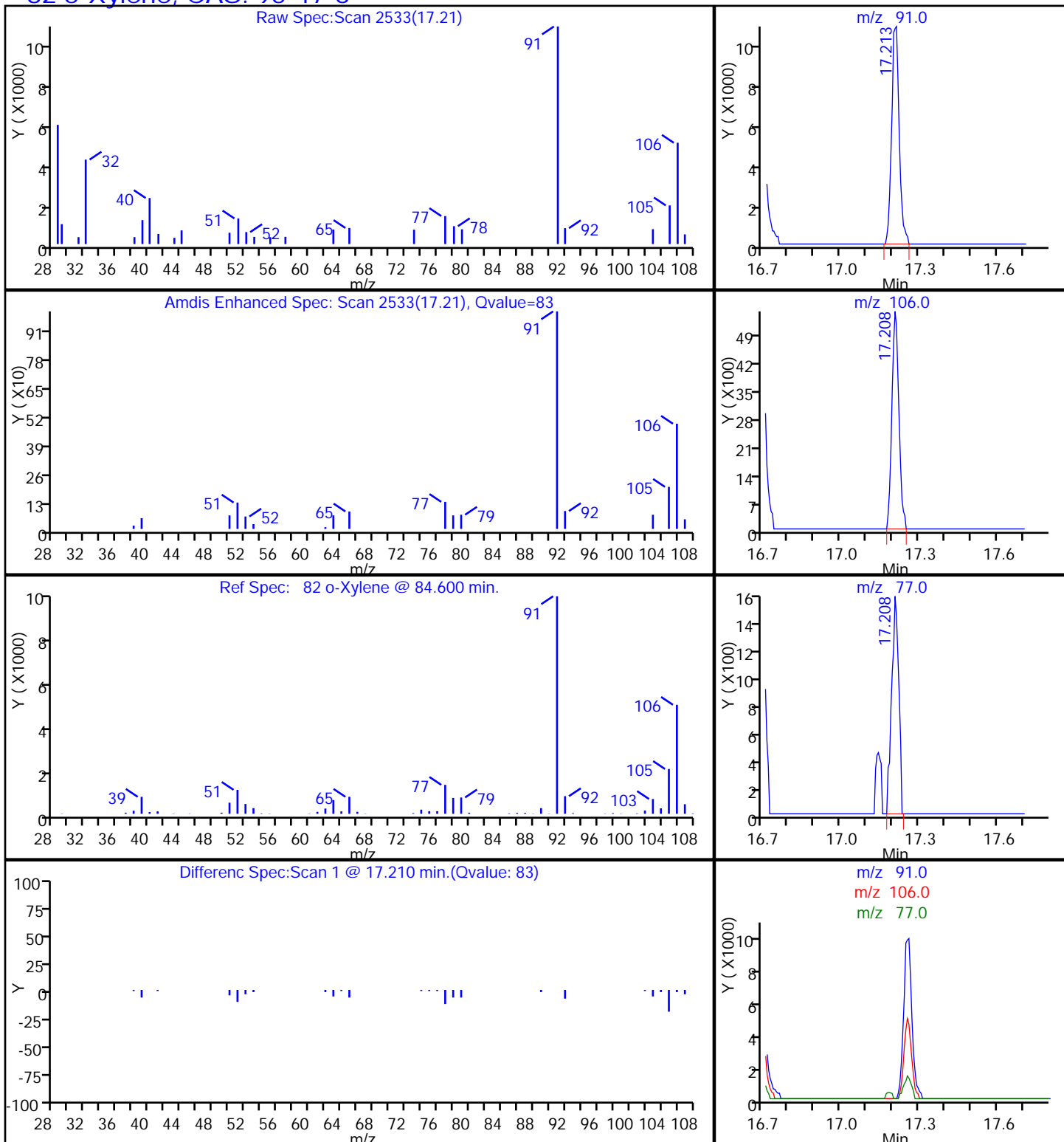
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

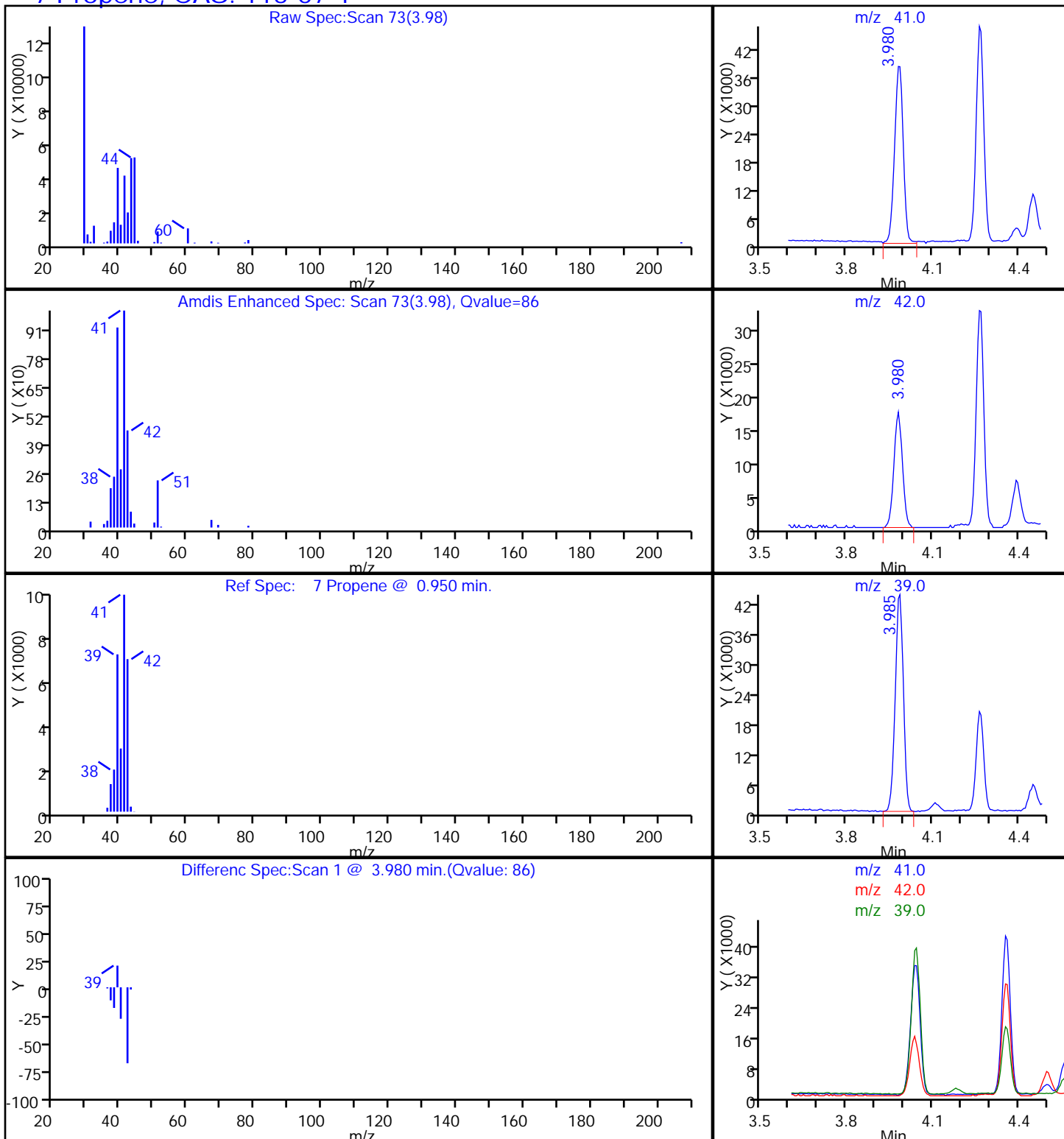
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

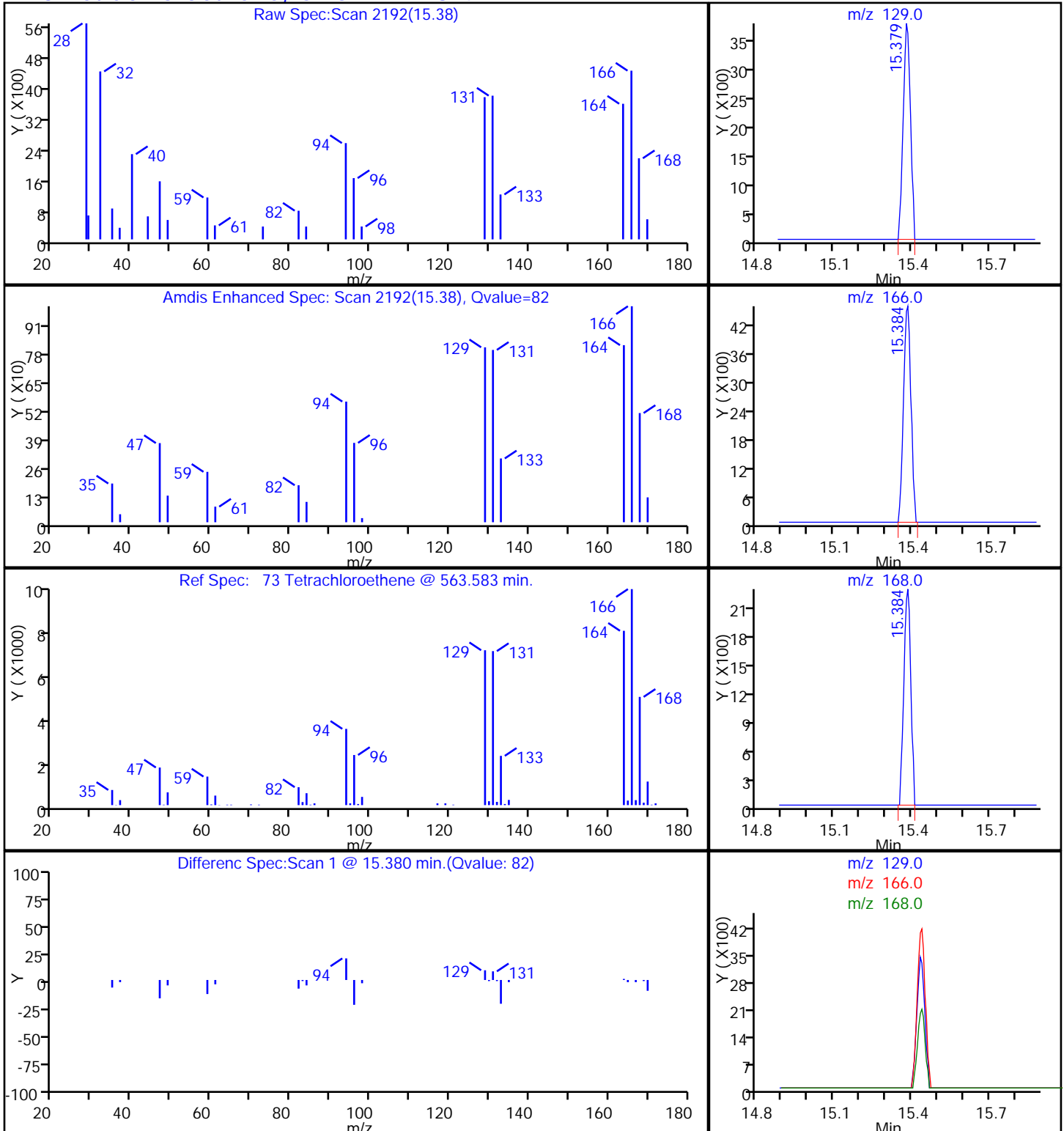
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

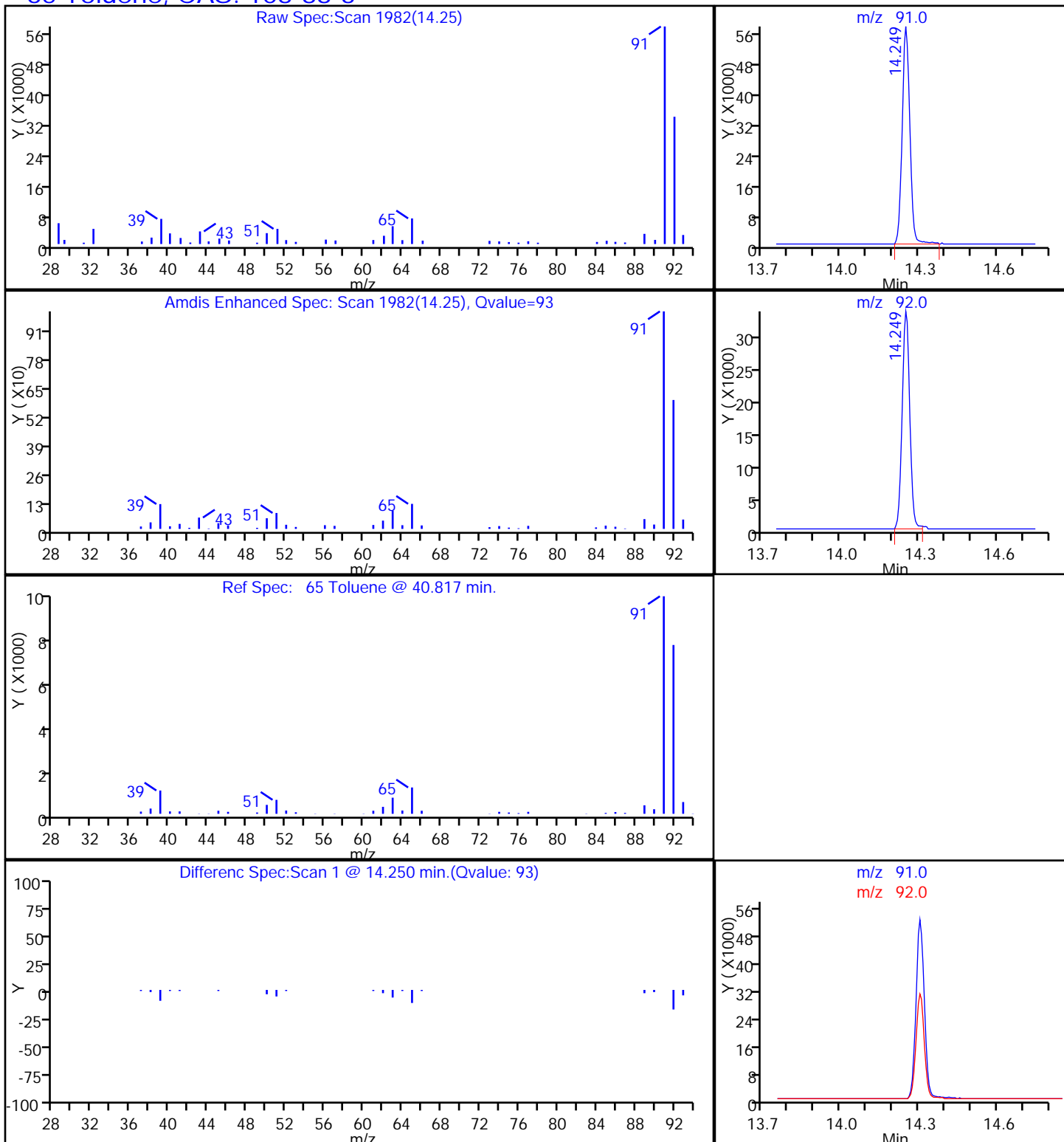
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P213.D

Injection Date: 19-Mar-2014 06:56:30

Instrument ID: MJ

Lims ID: 140-1063-A-11

Lab Sample ID: 140-1063-11

Client ID: PCV-IA2-B11

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

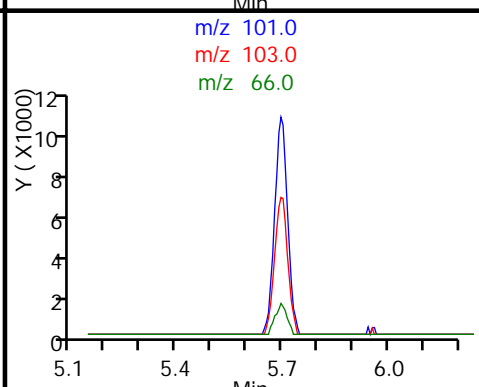
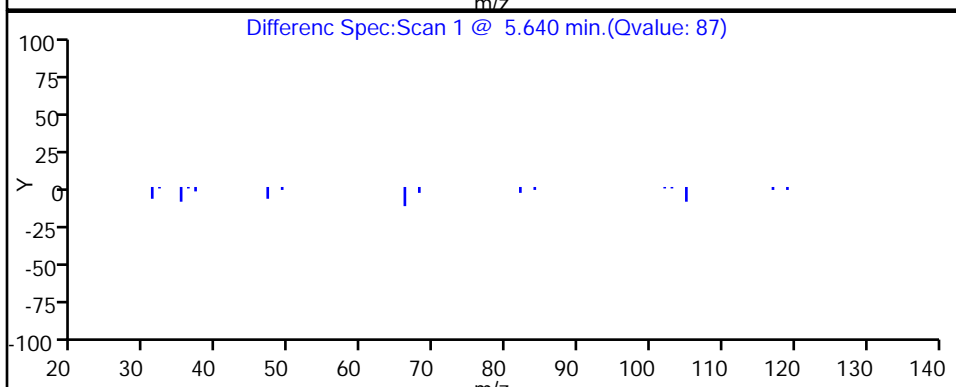
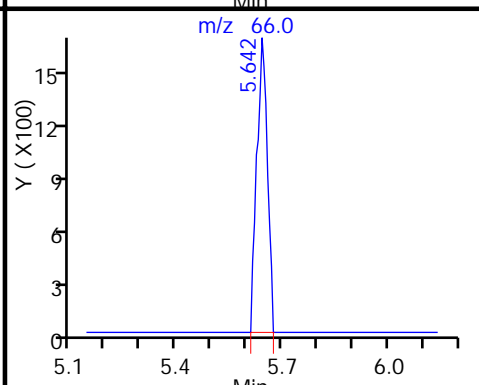
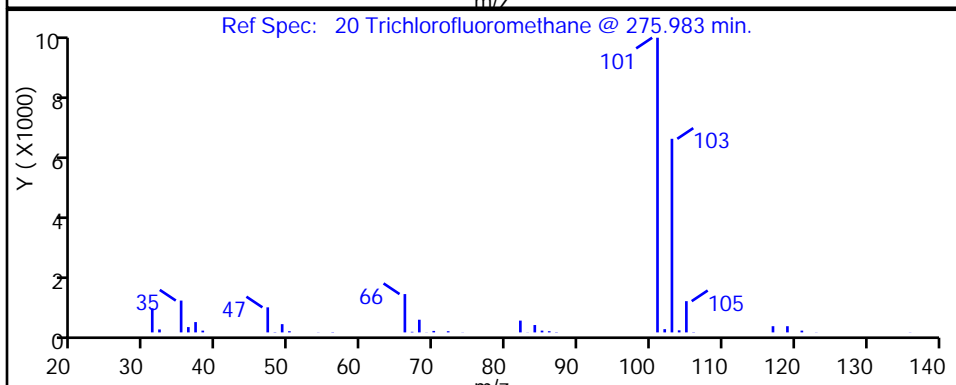
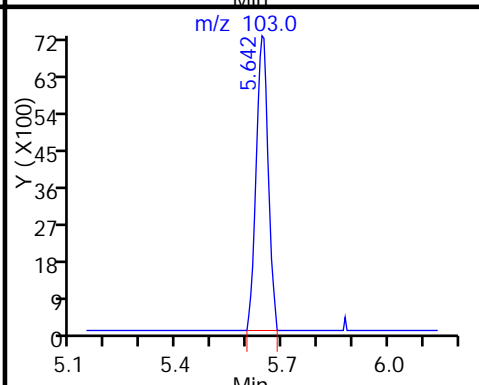
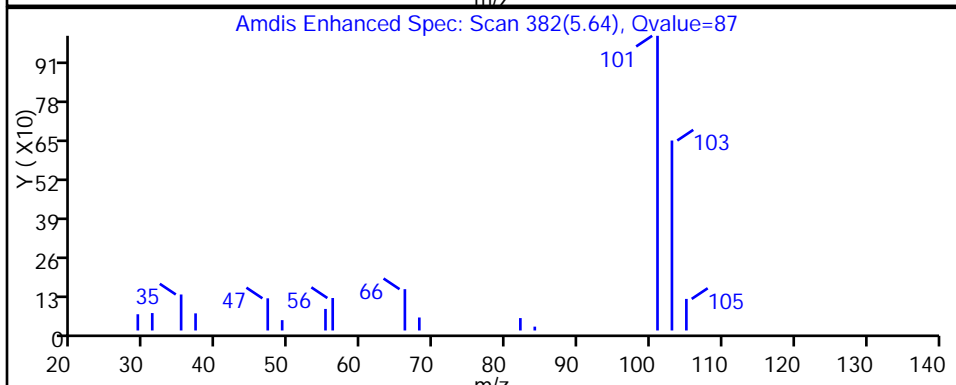
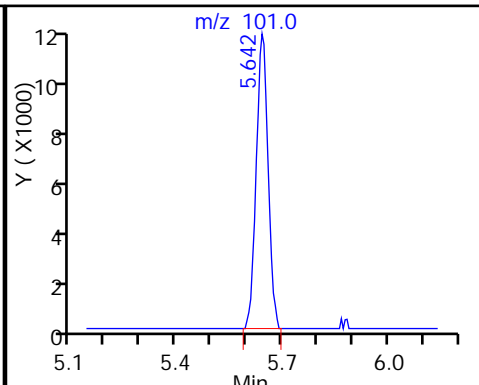
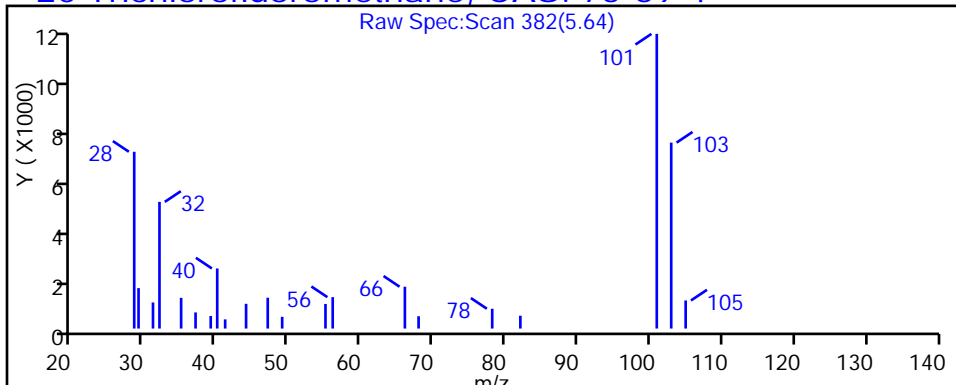
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12
 Matrix: Air Lab File ID: JC18P214.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:30
 Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51
 Soil Aliquot Vol: _____ Dilution Factor: 1.64
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.21		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.14	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.16	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.6		1.0	0.20
591-78-6	2-Hexanone	100.20	0.088	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	1.4		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.33		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.31	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.56		0.50	0.045
67-64-1	Acetone	58.08	7.1		5.0	1.4
71-43-2	Benzene	78.11	0.40		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.037	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12
 Matrix: Air Lab File ID: JC18P214.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:30
 Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51
 Soil Aliquot Vol: _____ Dilution Factor: 1.64
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.40		0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.10	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	110		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.21		0.20	0.068
142-82-5	Heptane	100.21	0.24	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.42	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.51		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.79		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.31		0.20	0.061
115-07-1	Propene	42.08	1.7	cn	0.50	0.077
100-42-5	Styrene	104.15	0.12	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.20		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.3		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12
 Matrix: Air Lab File ID: JC18P214.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:30
 Sample wt/vol: 328 (mL) Date Analyzed: 03/19/2014 07:51
 Soil Aliquot Vol: _____ Dilution Factor: 1.64
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12
 Matrix: Air Lab File ID: JC18P214.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:30
 Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51
 Soil Aliquot Vol: _____ Dilution Factor: 1.64
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.0		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.86	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.77	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	4.6		2.9	0.59
591-78-6	2-Hexanone	100.20	0.36	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	4.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.2		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.5	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.3		2.0	0.18
67-64-1	Acetone	58.08	17		12	3.3
71-43-2	Benzene	78.11	1.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.12	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12
 Matrix: Air Lab File ID: JC18P214.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:30
 Sample wt/vol: 328(mL) Date Analyzed: 03/19/2014 07:51
 Soil Aliquot Vol: _____ Dilution Factor: 1.64
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	2.0		0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.36	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	210		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.93		0.87	0.30
142-82-5	Heptane	100.21	0.97	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.5	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	22		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.4		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.4		0.87	0.26
115-07-1	Propene	42.08	3.0	cn	0.86	0.13
100-42-5	Styrene	104.15	0.52	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.4		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.0		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA3-B11 Lab Sample ID: 140-1063-12
 Matrix: Air Lab File ID: JC18P214.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 16:30
 Sample wt/vol: 328 (mL) Date Analyzed: 03/19/2014 07:51
 Soil Aliquot Vol: _____ Dilution Factor: 1.64
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D
 Lims ID: 140-1063-A-12 Lab Sample ID: 140-1063-12
 Client ID: PCV-IA3-B11
 Sample Type: Client
 Inject. Date: 19-Mar-2014 07:51:30 ALS Bottle#: 14 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.6400
 Sample Info: 140-1063-a-12@1.64
 Misc. Info.: J031814,TO15,,140-0000527-020
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:57:42 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:07:04

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.381	9.388	-0.007	89	363113	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1701606	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1409144	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	91	982304	3.94	
7 Propene	41	3.980	3.971	0.009	82	76821	0.6900	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	63232	0.1758	
9 Chloromethane	52	4.228	4.229	-0.001	98	9623	0.2355	
17 Ethanol	31	5.121	5.116	0.005	94	1271073	43.6	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	85591	0.5550	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	85	26451	0.0837	
23 Acetone	58	5.761	5.767	-0.006	92	147107	2.85	
24 Isopropyl alcohol	45	5.852	5.848	0.004	97	485743	3.56	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.584	6.580	0.004	68	5707	0.0261	
31 Methylene Chloride	84	6.751	6.757	-0.006	92	19966	0.2055	
33 Carbon disulfide	76	6.934	6.935	-0.001	78	5078	0.0149	
35 2-Methylpentane	43	7.622	7.623	-0.001	93	37220	0.1328	
39 2-Butanone (MEK)	72	8.591	8.586	0.005	98	21539	0.6266	
40 Hexane	56	8.634	8.635	-0.001	71	16324	0.1672	
43 Chloroform	83	9.392	9.393	-0.001	71	33992	0.1607	
48 Benzene	78	11.017	11.023	-0.006	95	47021	0.1611	
49 Cyclohexane	69	11.033	11.034	-0.001	45	2416	0.0419	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	87	6624	0.0275	
53 Isooctane	57	11.759	11.760	-0.001	83	32699	0.0656	
54 n-Heptane	71	12.114	12.120	-0.006	83	9807	0.0950	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	94	40073	0.2247	
65 Toluene	91	14.250	14.256	-0.006	93	138358	0.5293	
69 2-Hexanone	58	14.685	14.681	0.004	54	3003	0.0351	
73 Tetrachloroethene	129	15.379	15.386	-0.007	83	9953	0.0817	
76 Ethylbenzene	91	16.525	16.532	-0.007	83	24615	0.0852	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	99	73855	0.3170	
80 Styrene	104	17.144	17.150	-0.006	67	7767	0.0485	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
82 o-Xylene	91	17.208	17.215	-0.007	89	29384	0.1244	
88 4-Ethyltoluene	105	18.462	18.447	0.015	54	38740	0.1234	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	81	22995	0.0840	
97 1,4-Dichlorobenzene	146	19.290	19.297	-0.007	79	9607	0.0574	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Worklist Smp#: 20

Client ID: PCV-IA3-B11

Purge Vol: 500.000 mL

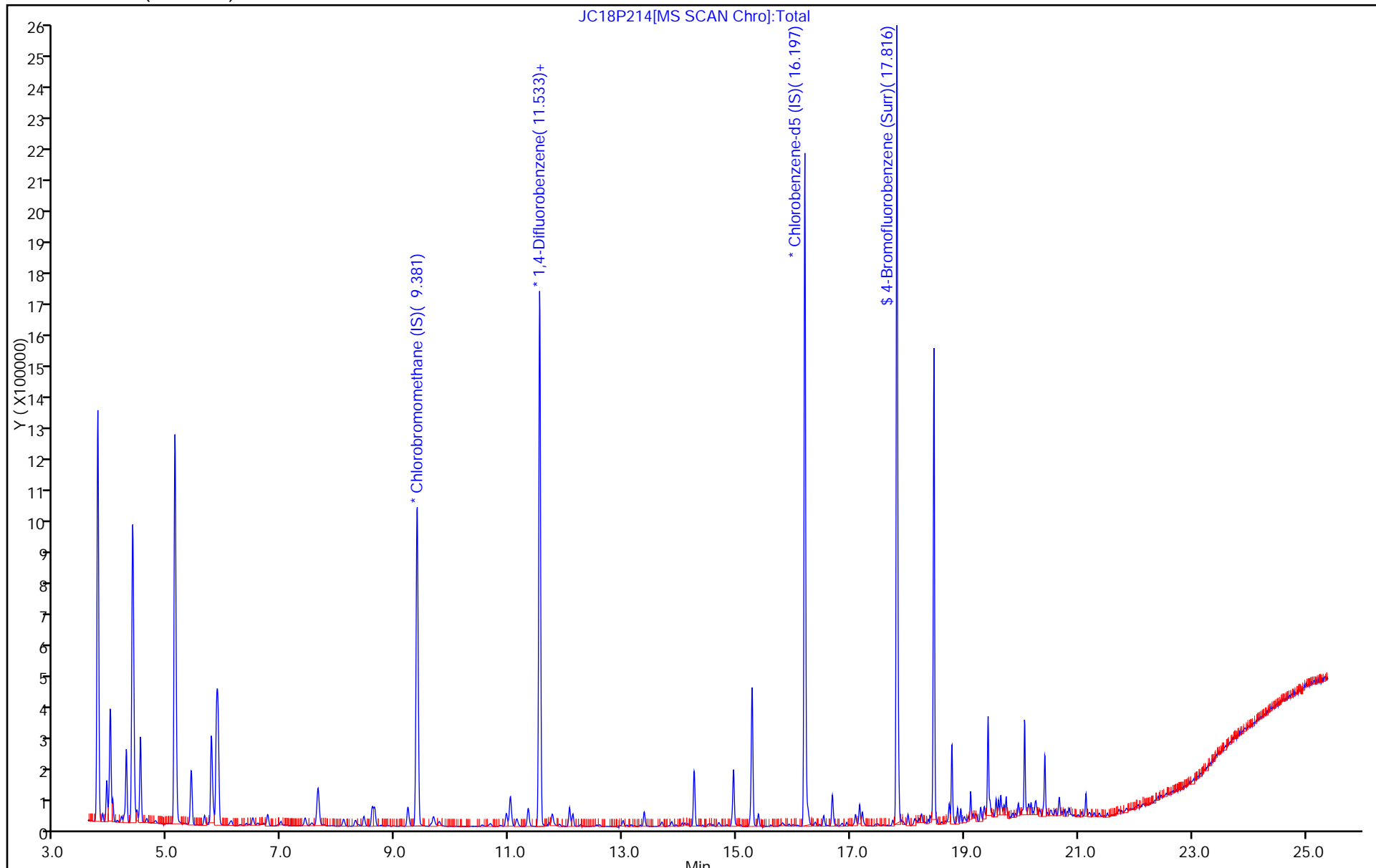
Dil. Factor: 1.6400

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

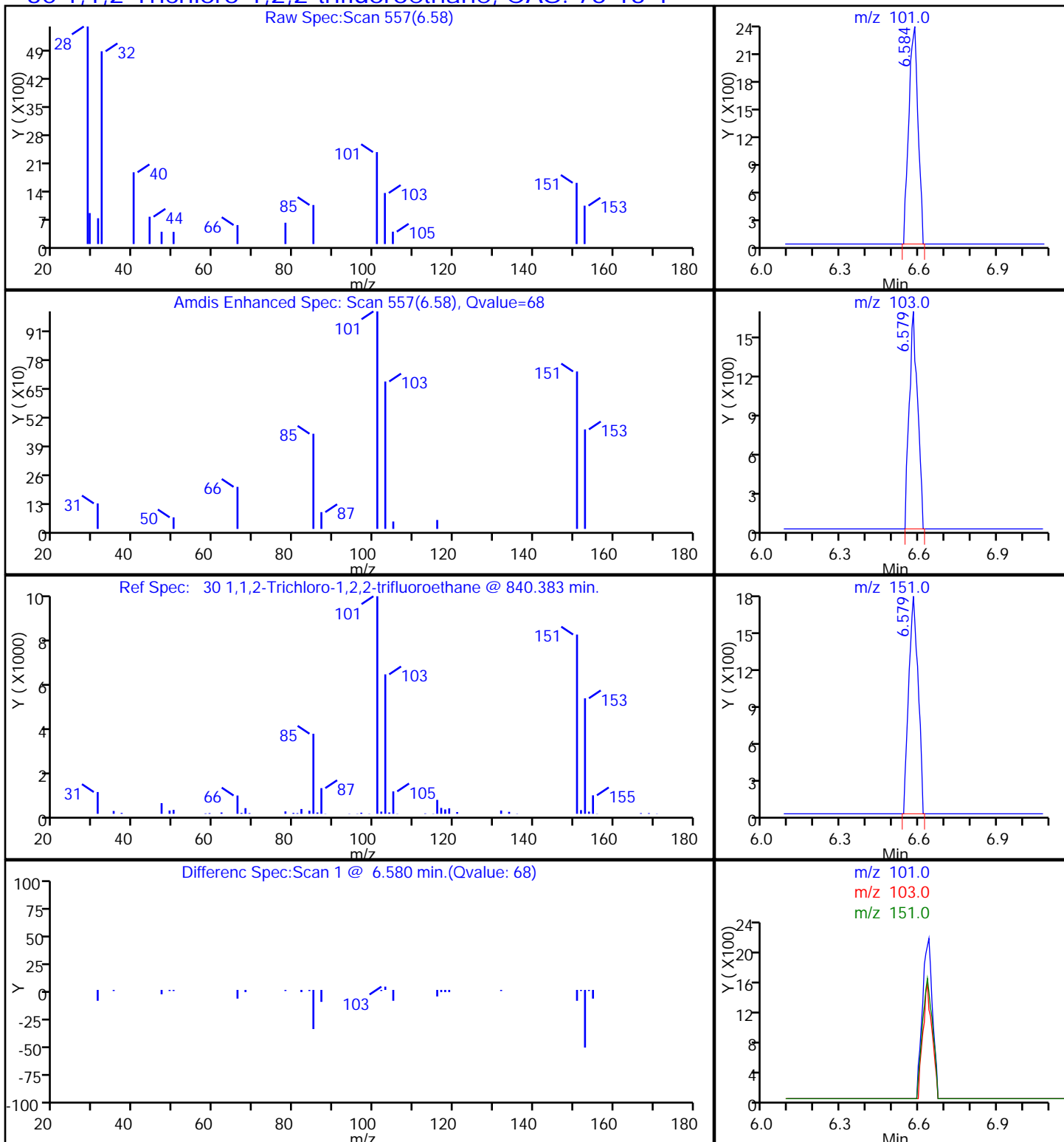
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

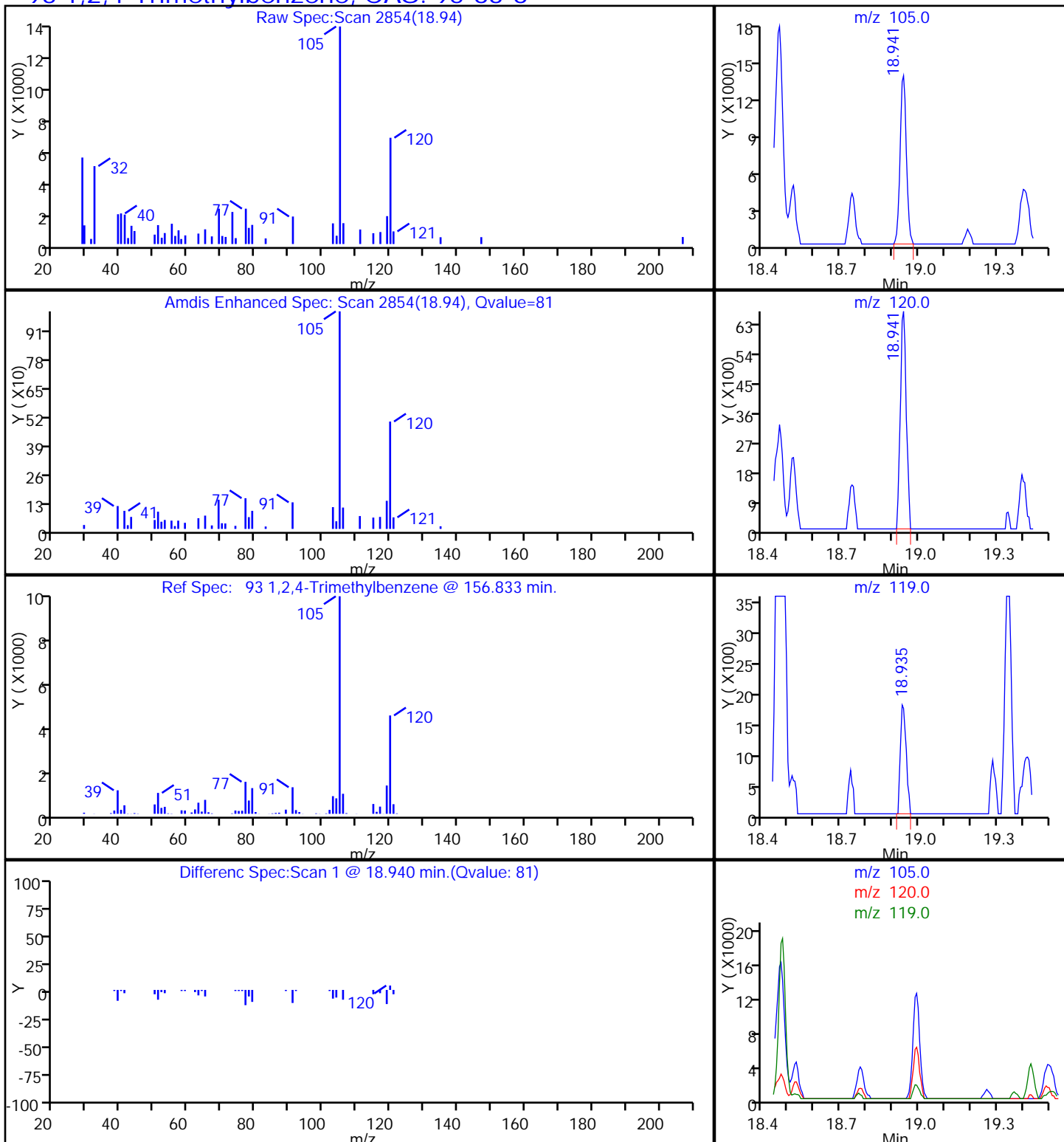
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

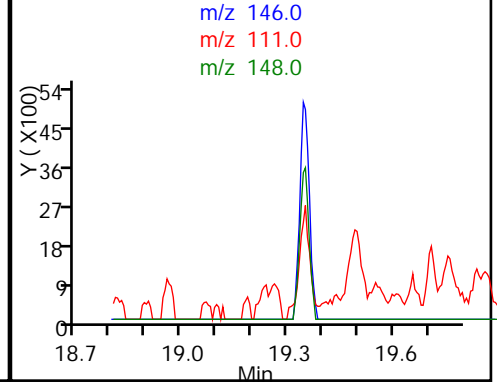
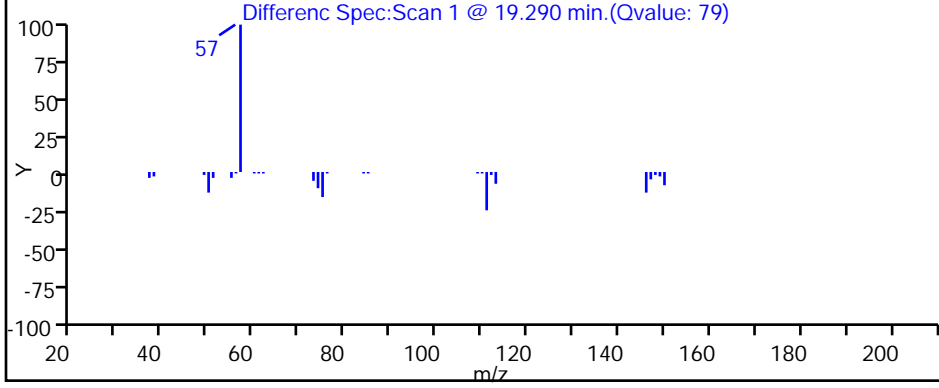
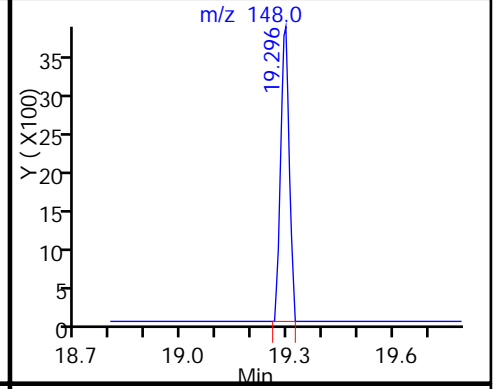
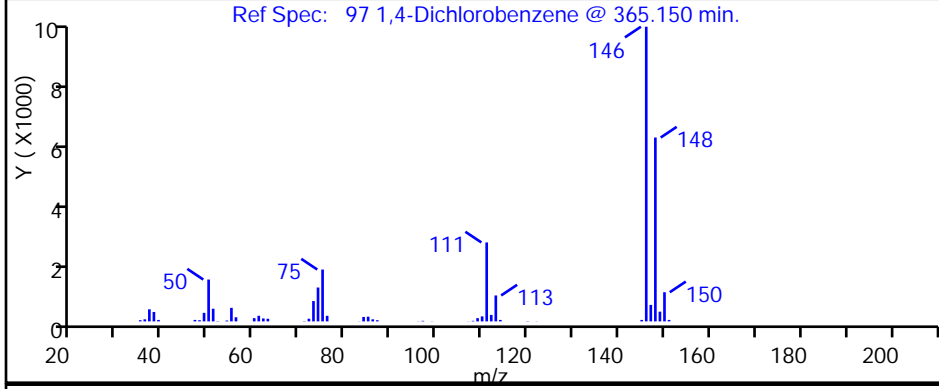
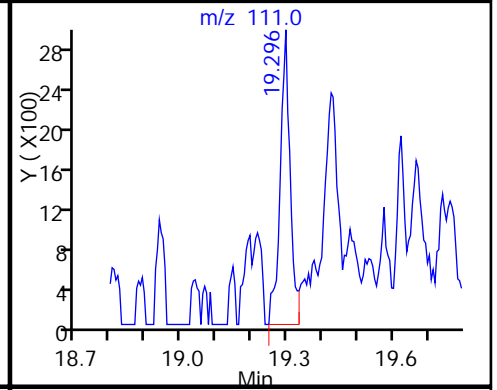
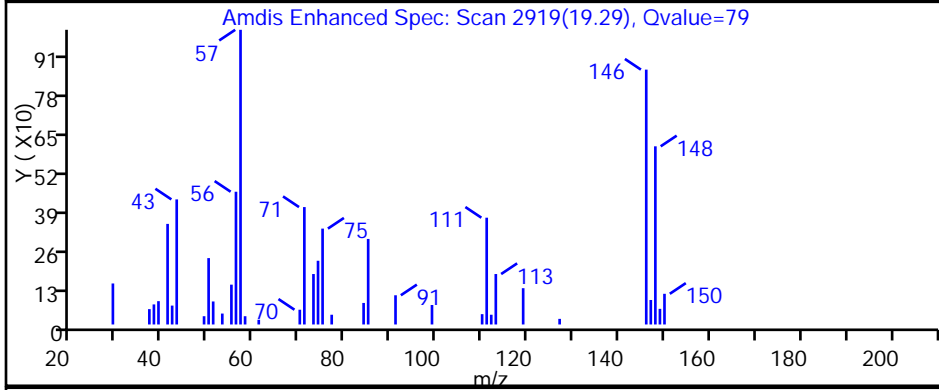
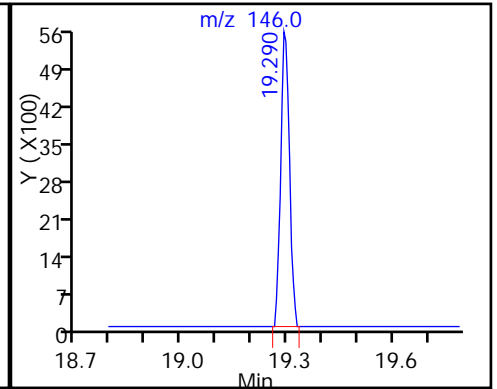
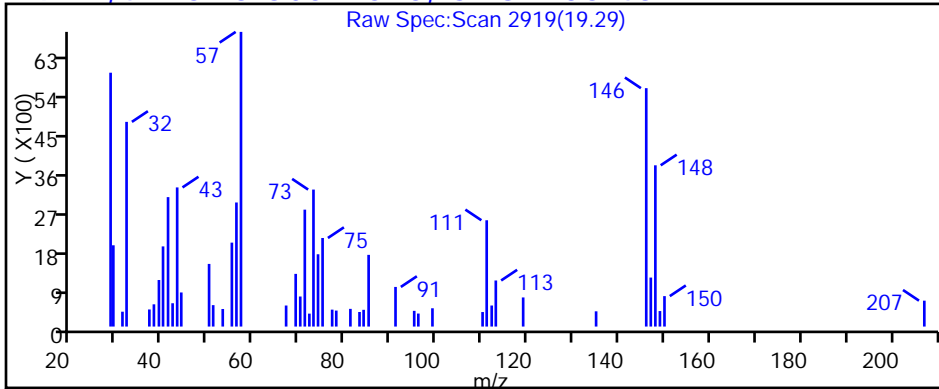
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

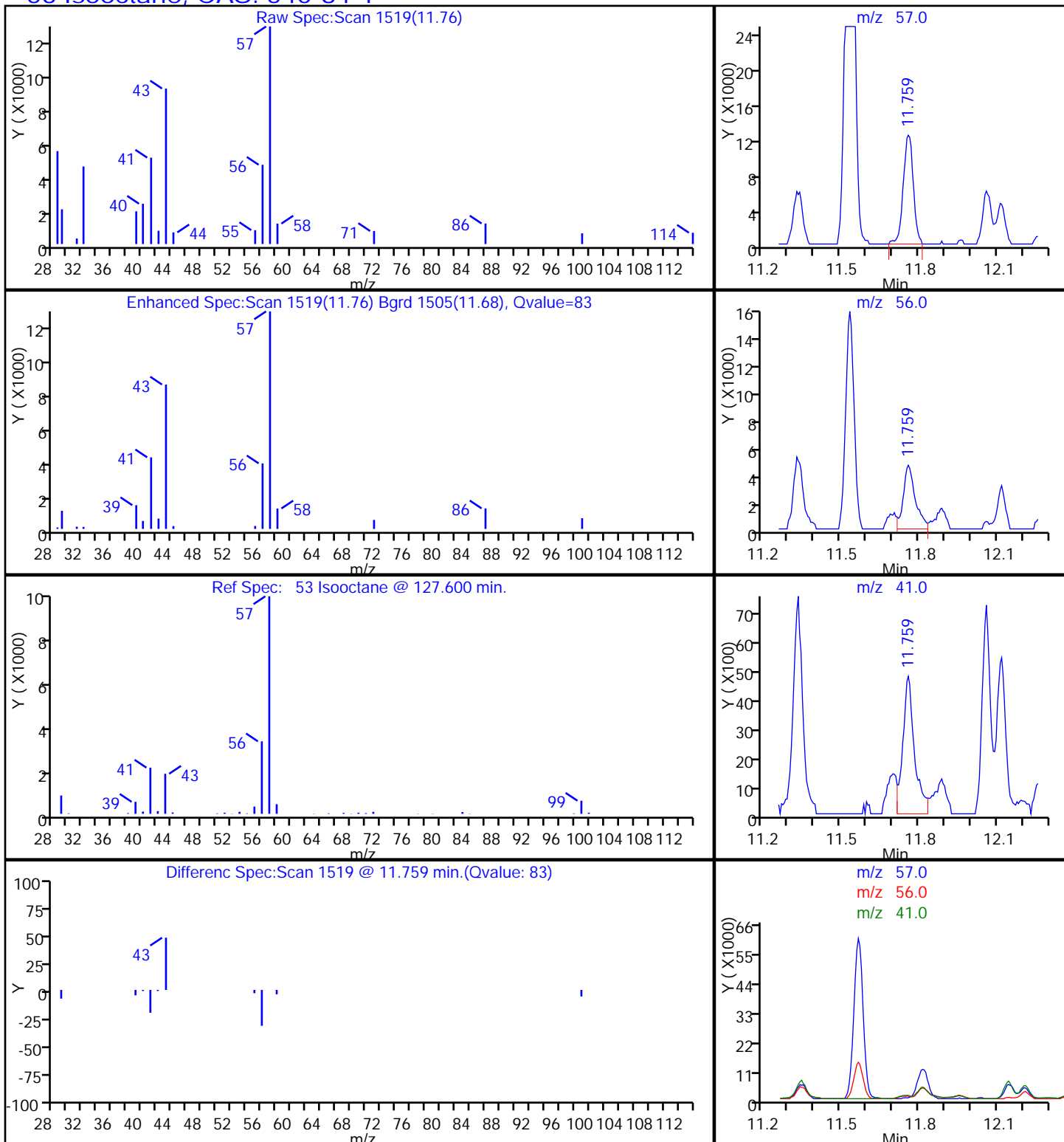
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

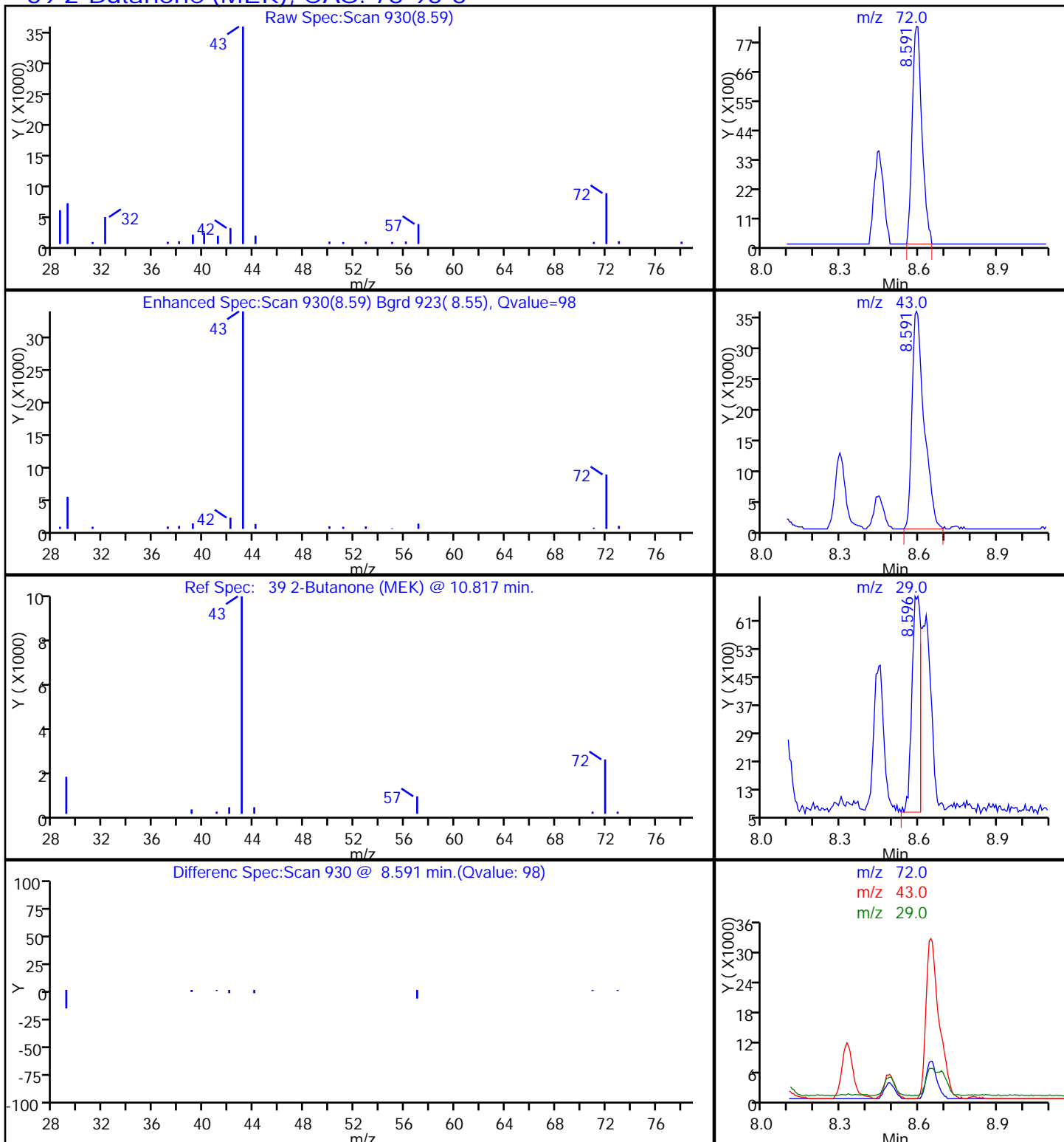
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

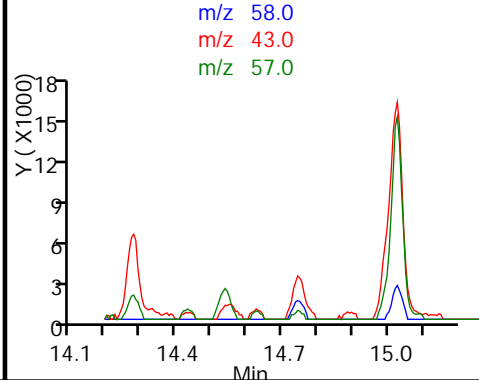
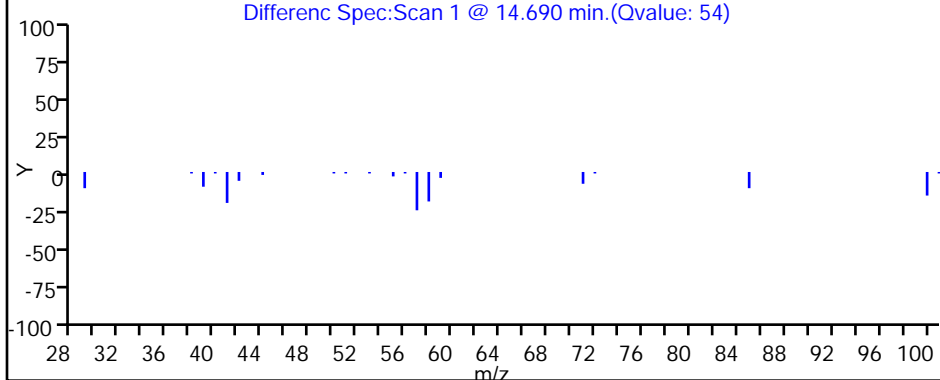
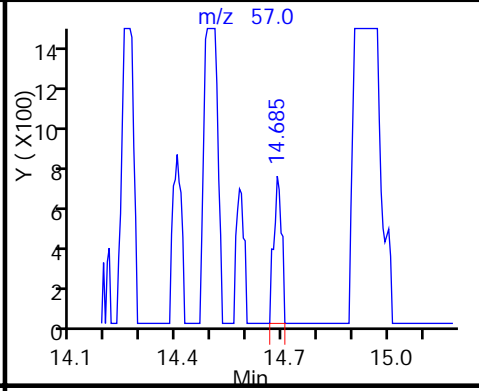
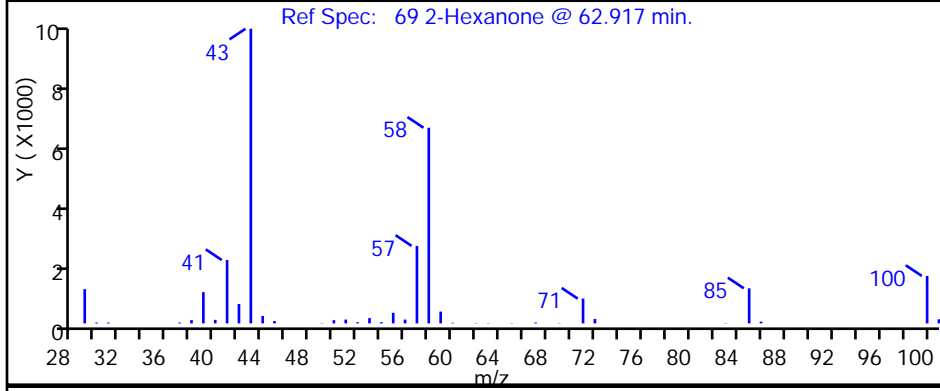
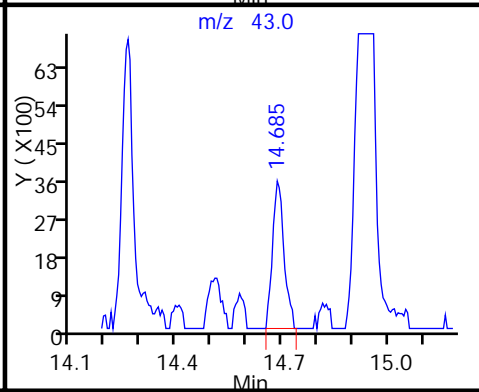
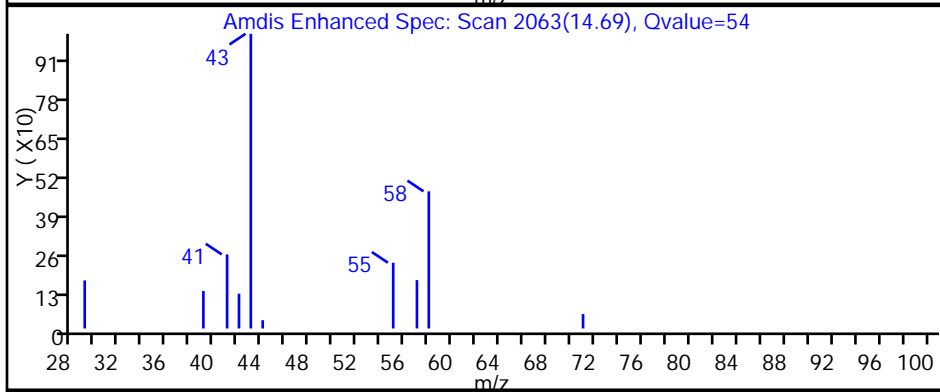
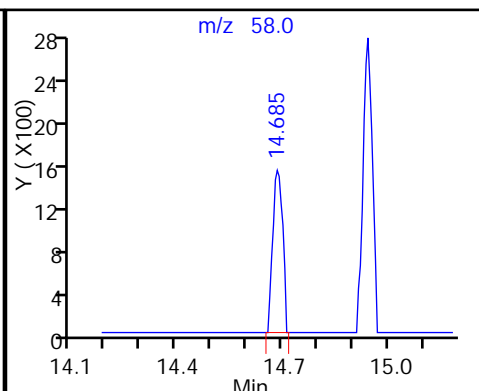
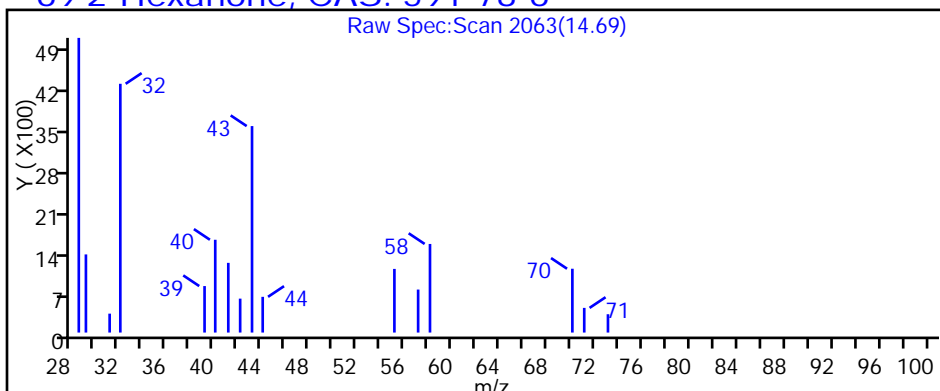
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

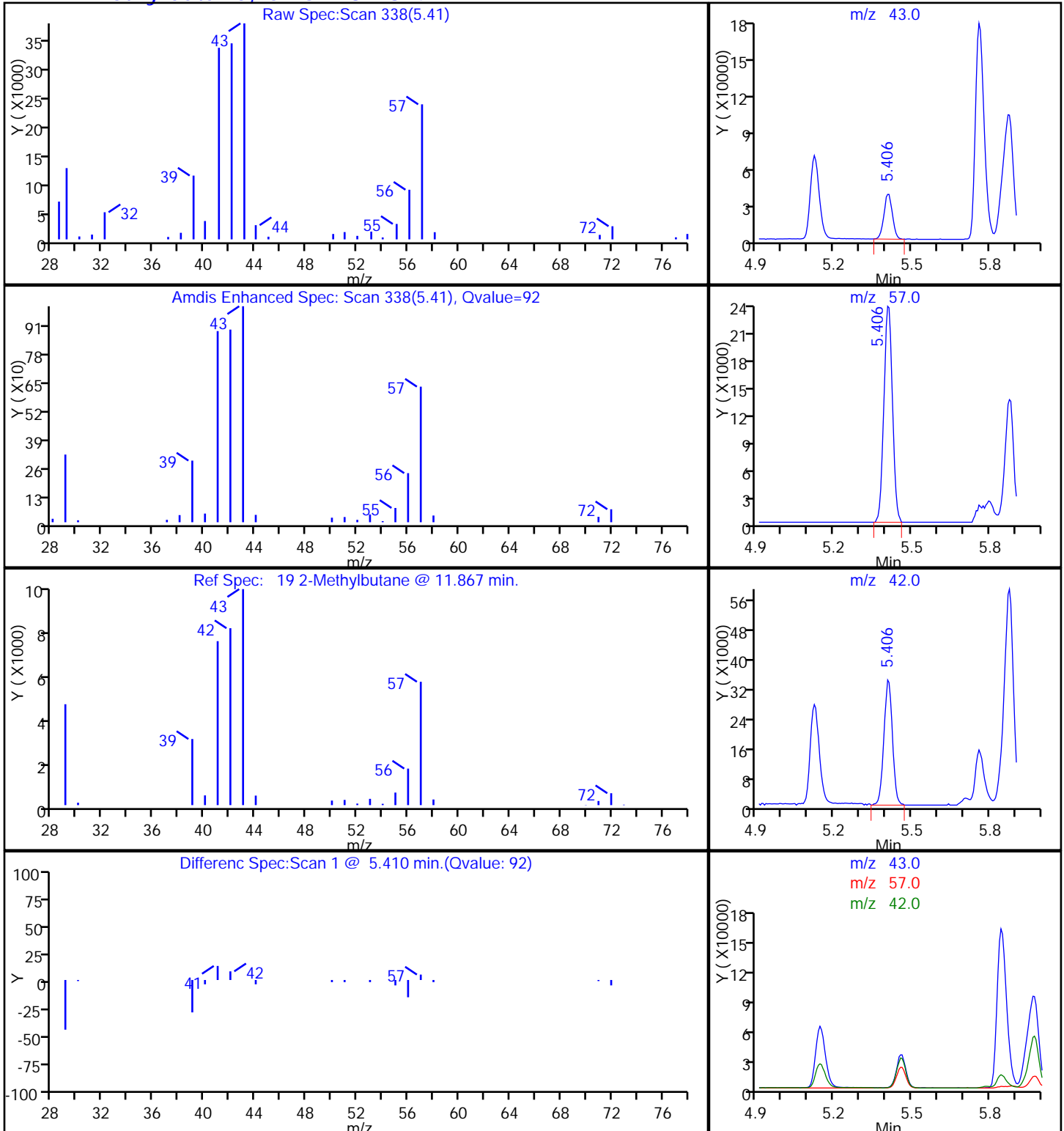
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

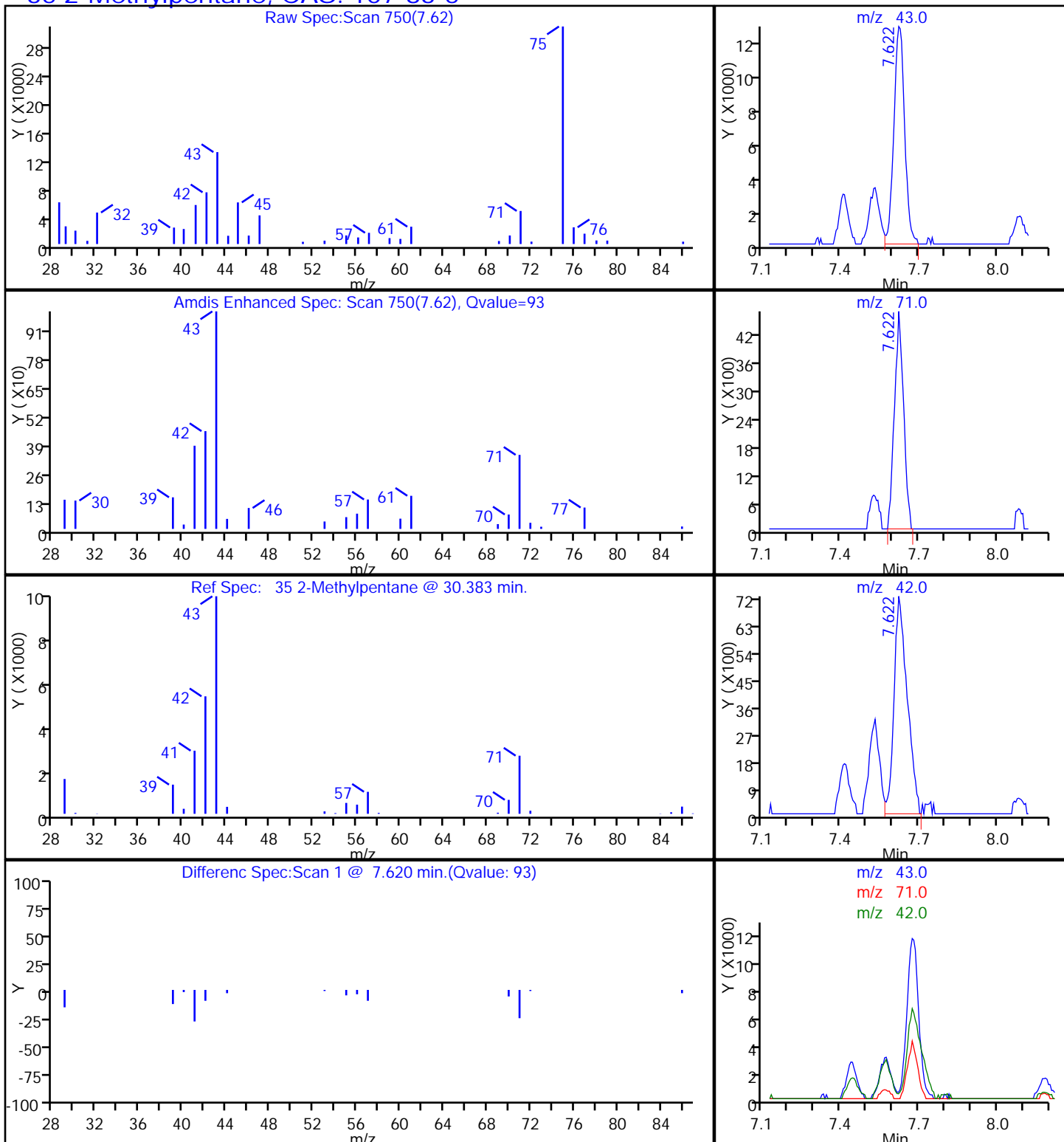
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

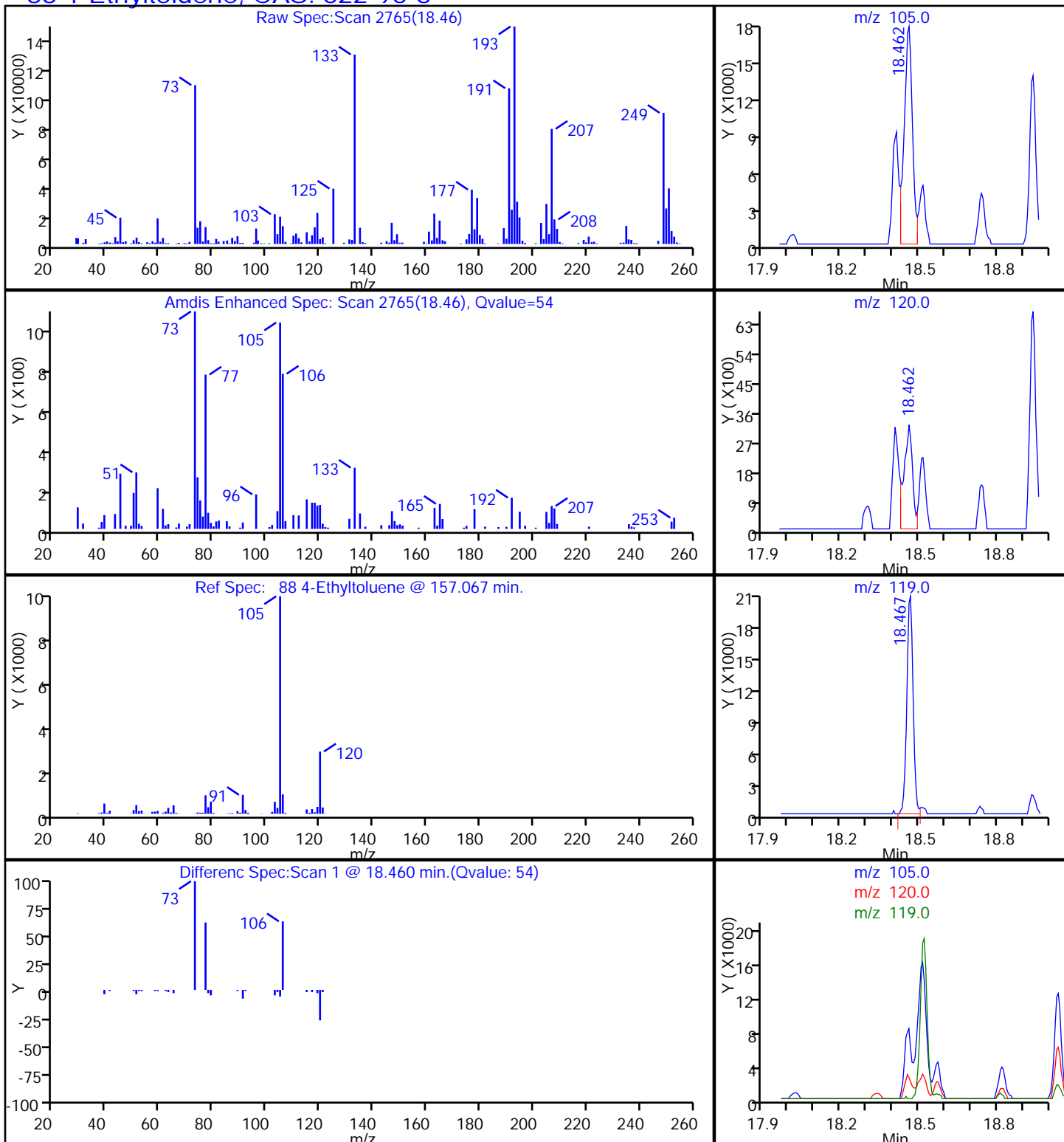
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

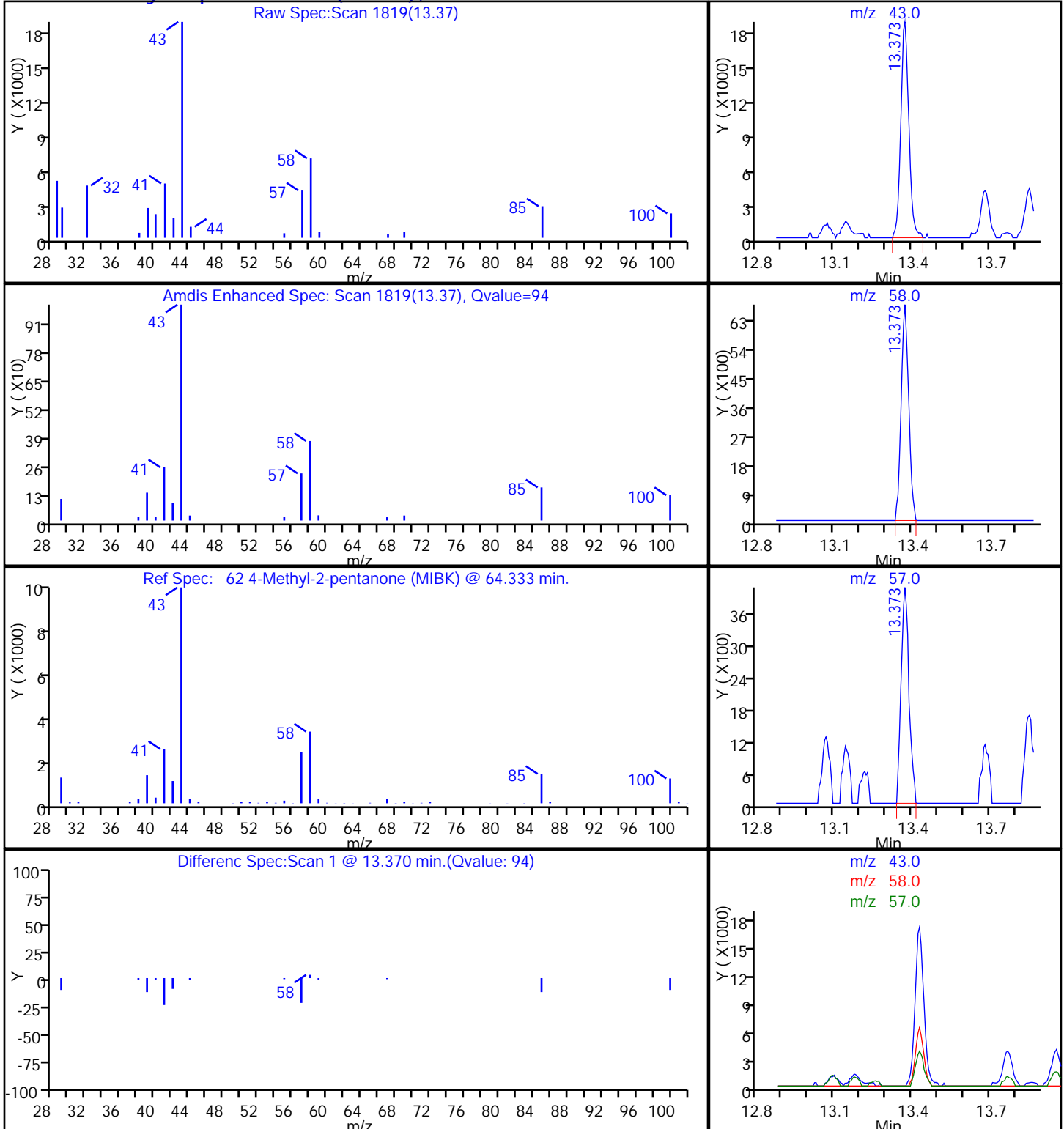
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

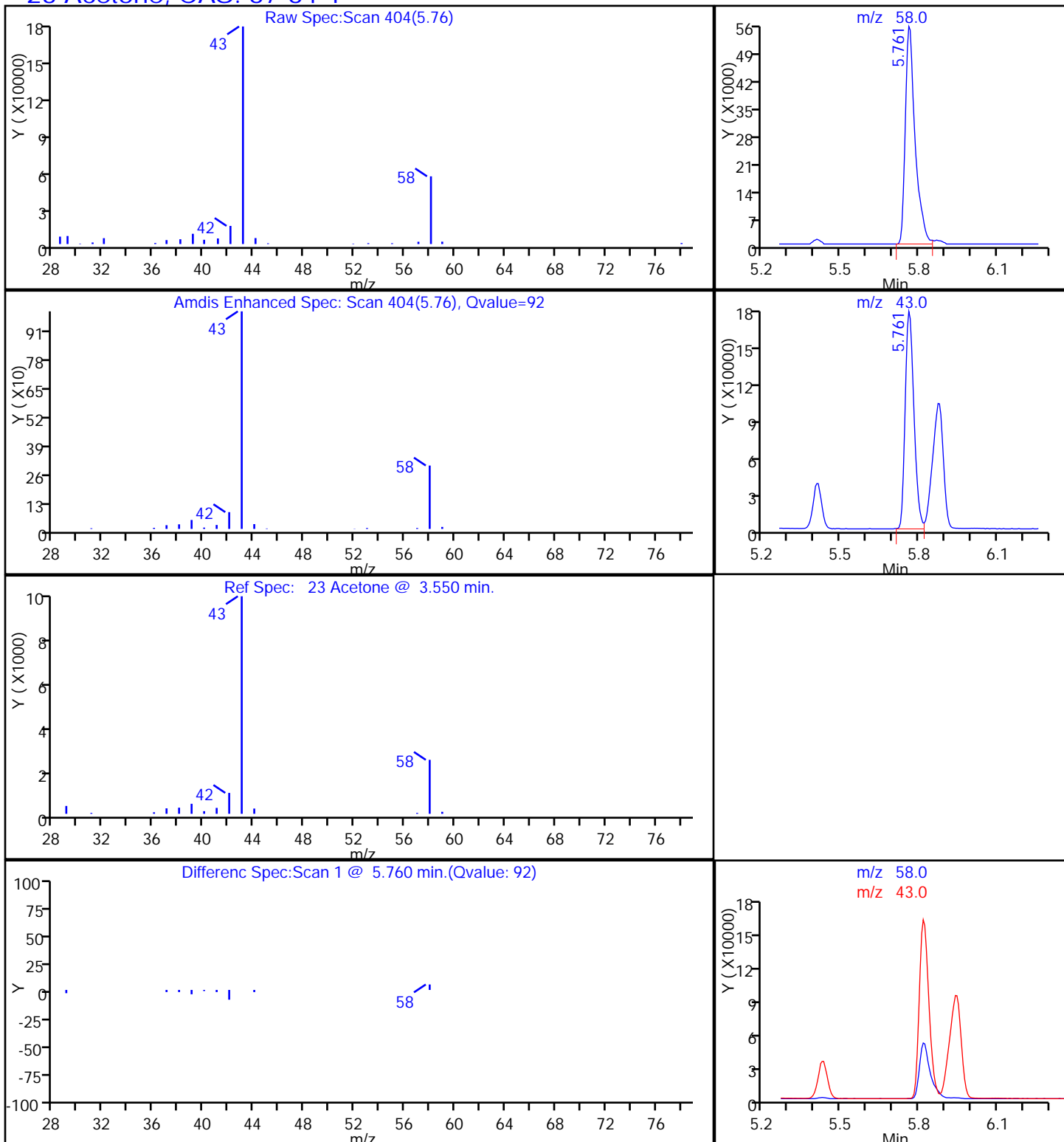
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

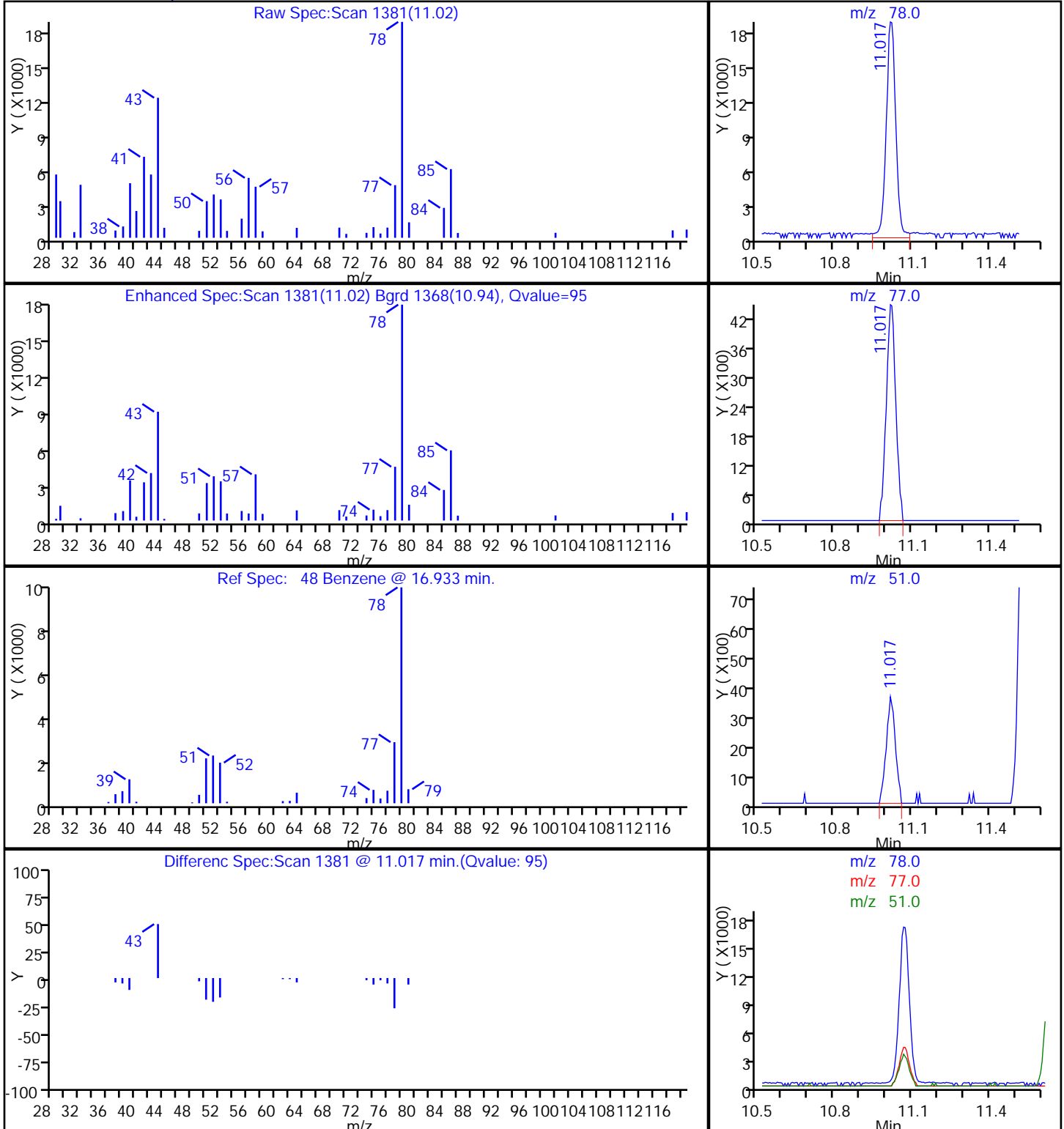
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

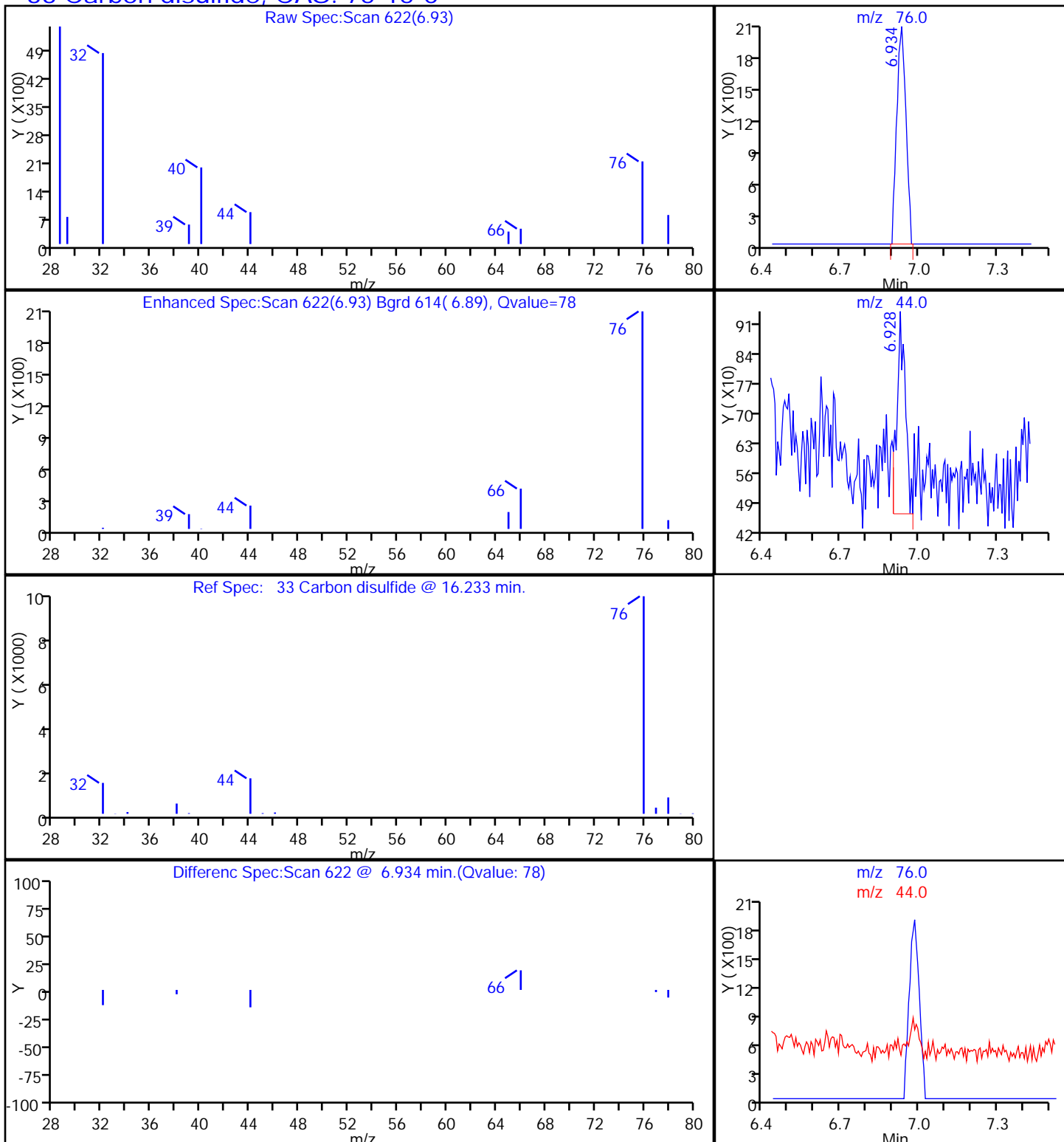
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

33 Carbon disulfide, CAS: 75-15-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

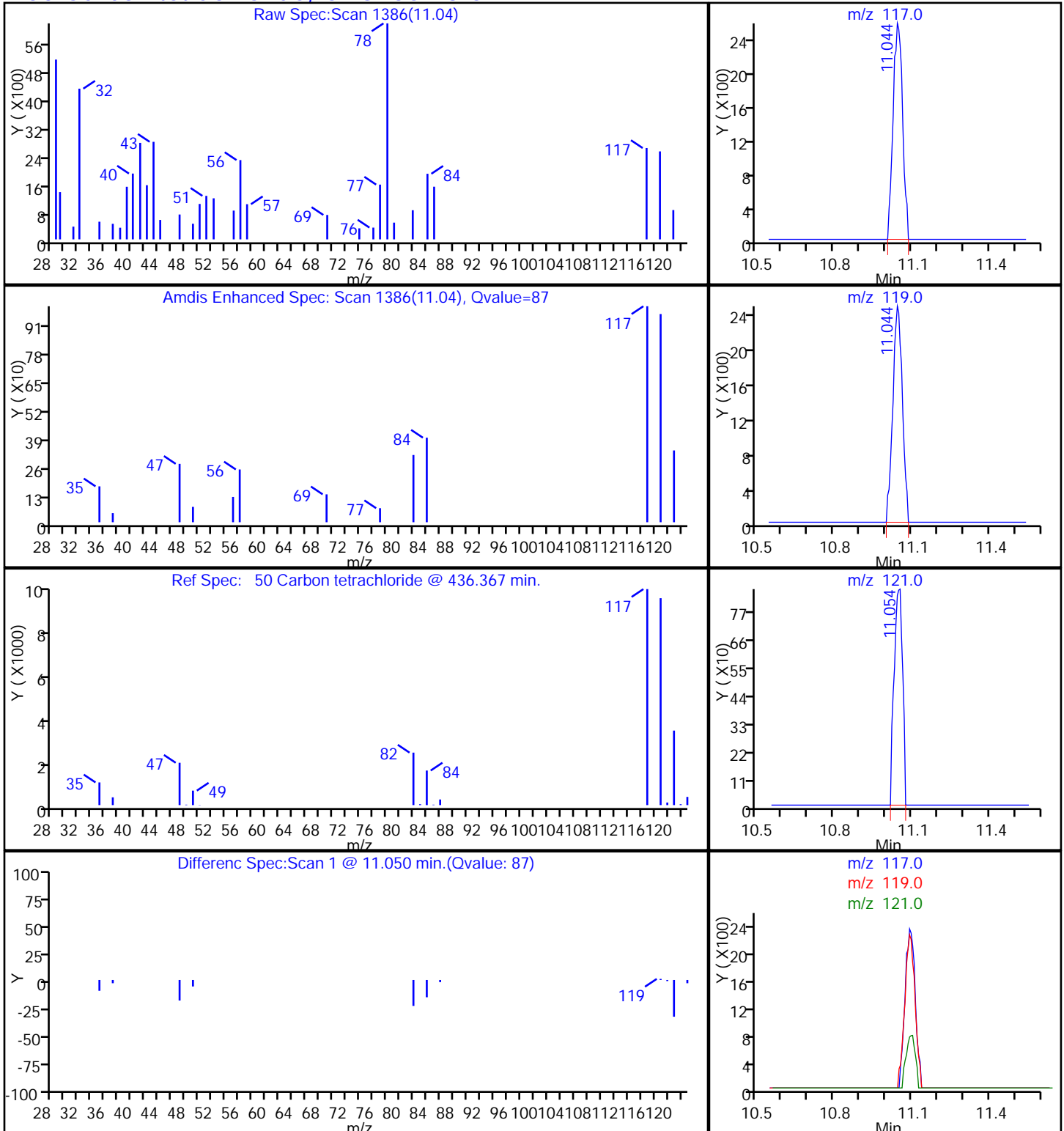
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

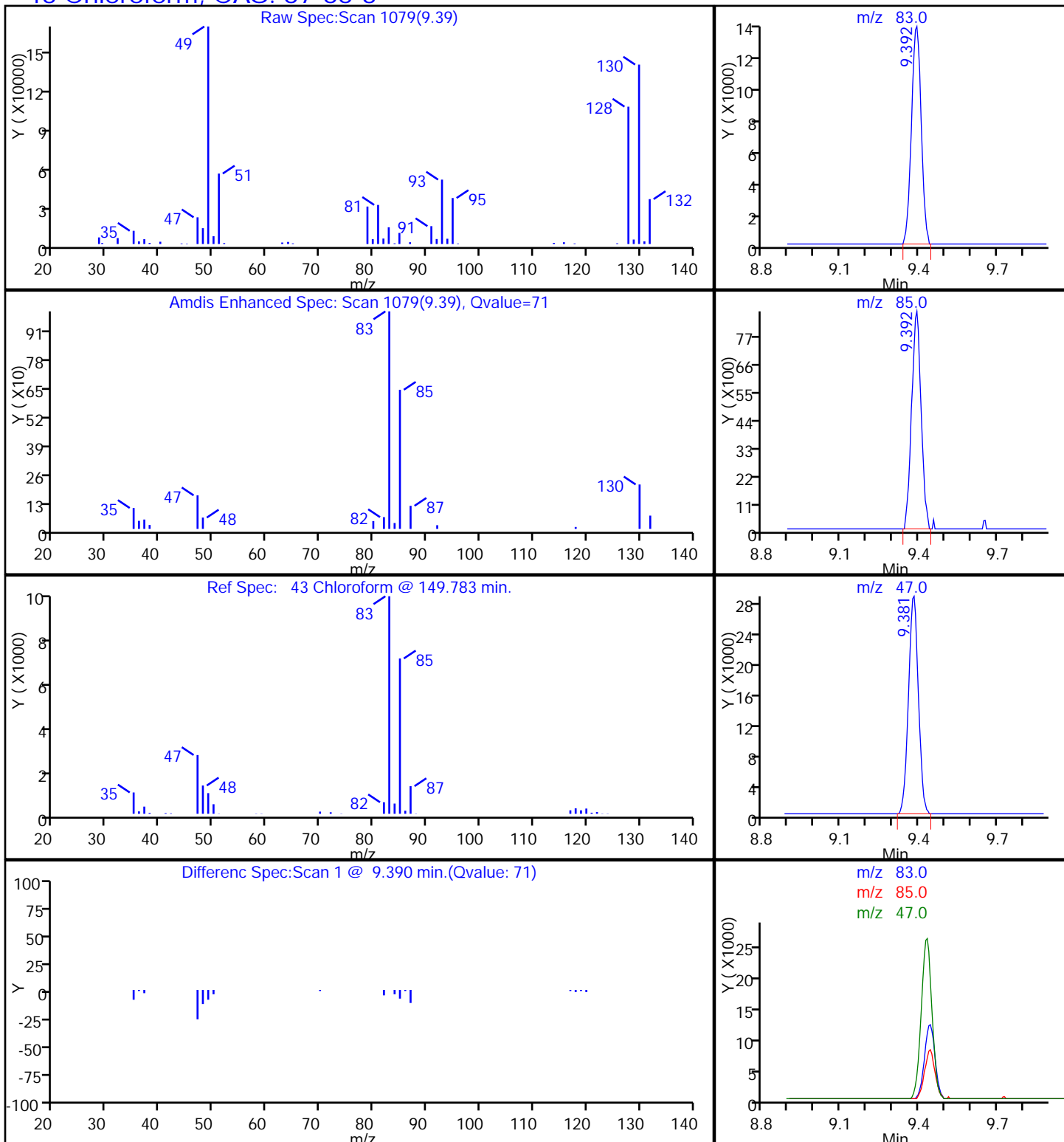
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

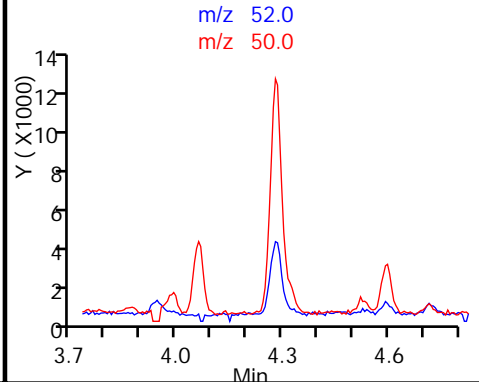
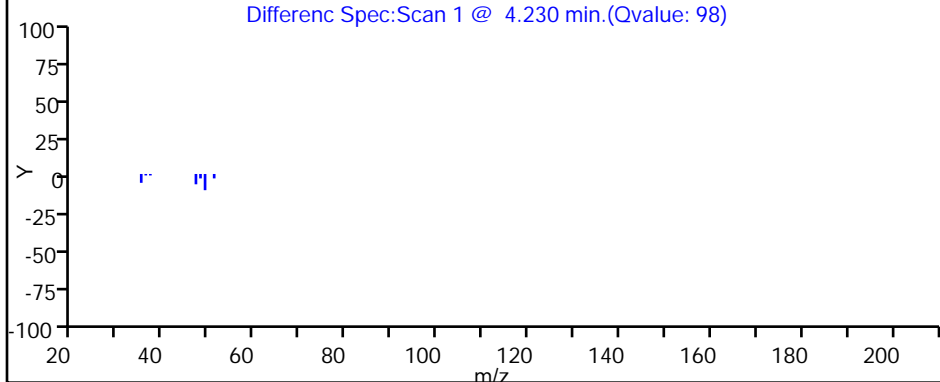
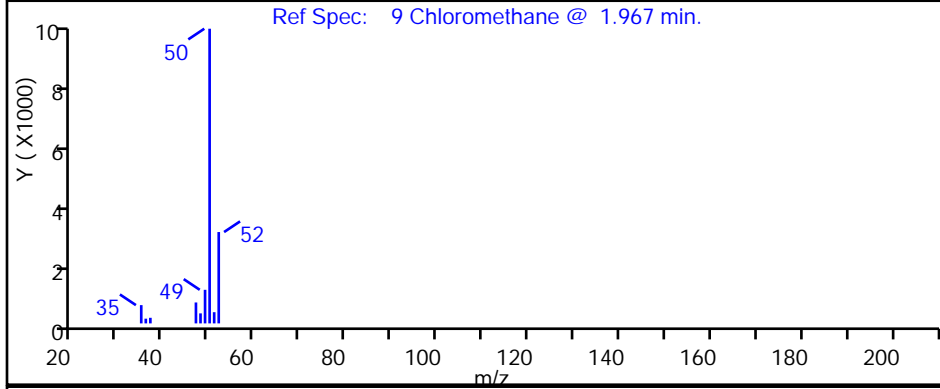
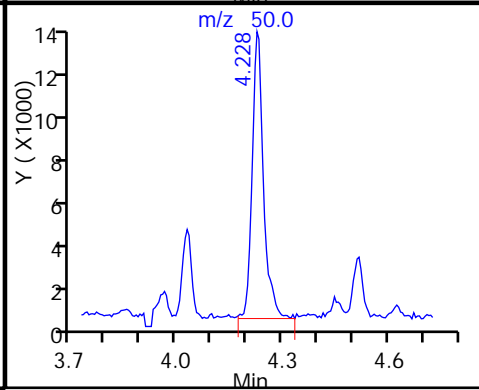
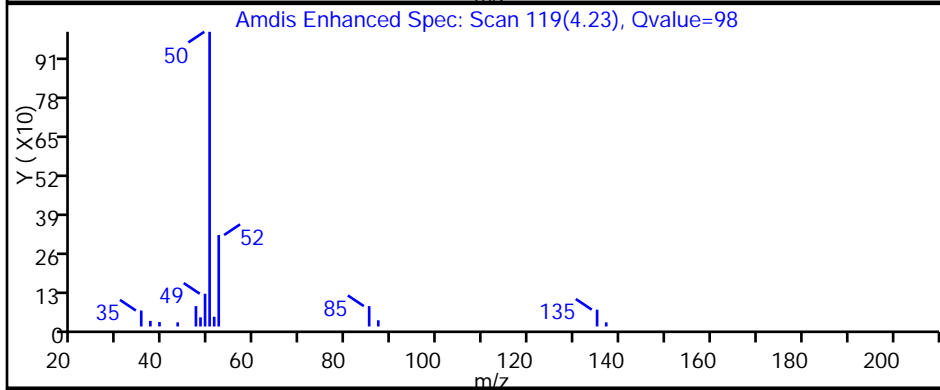
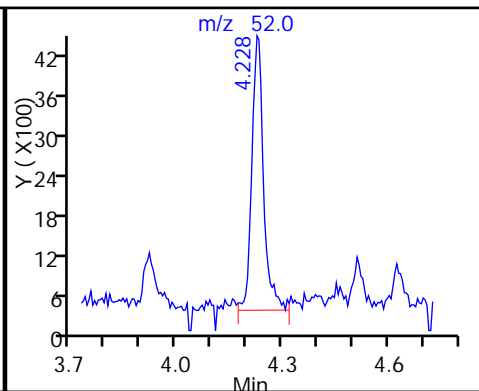
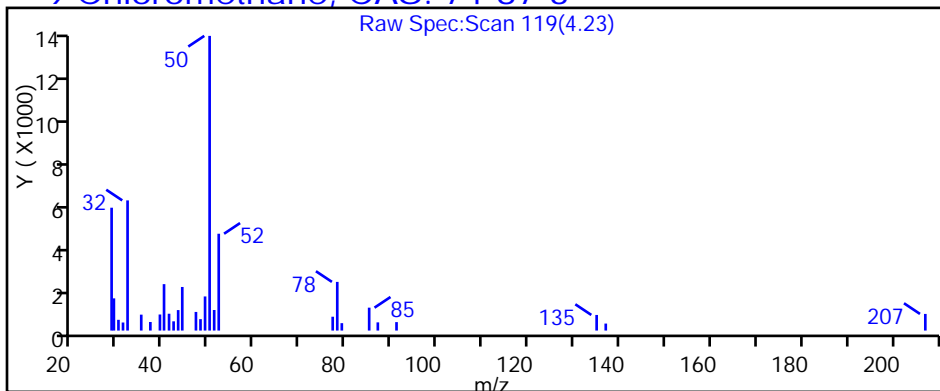
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

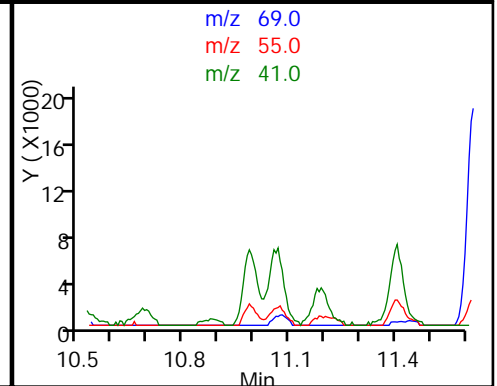
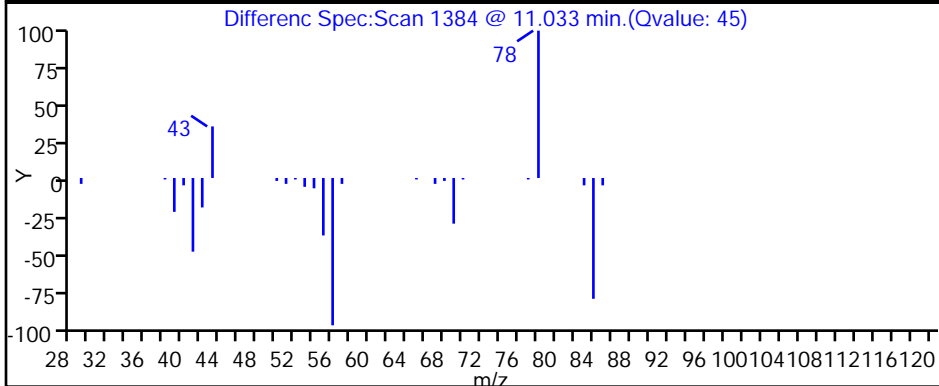
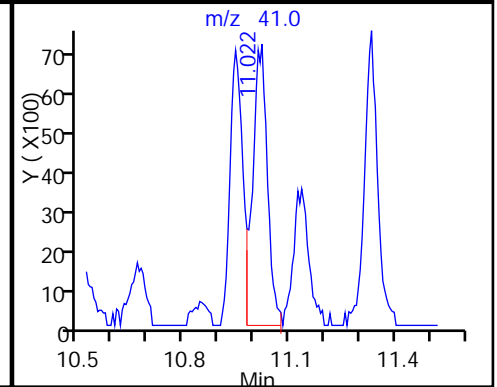
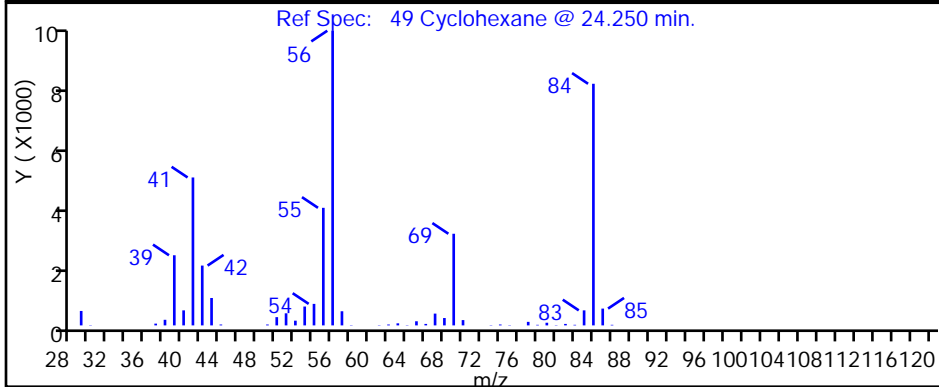
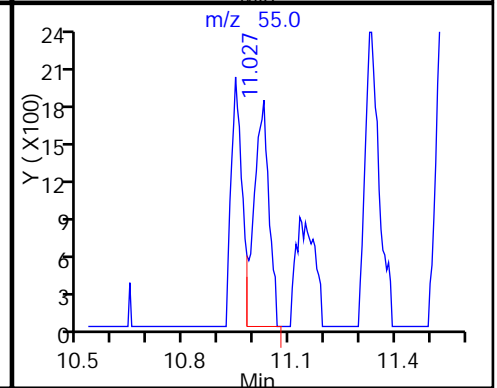
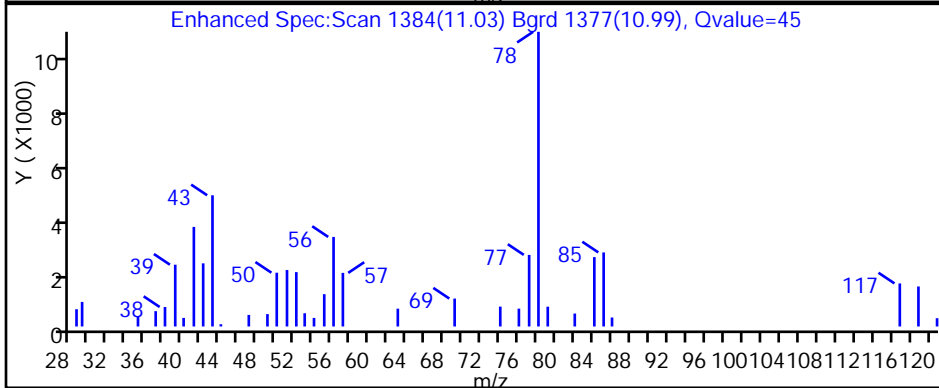
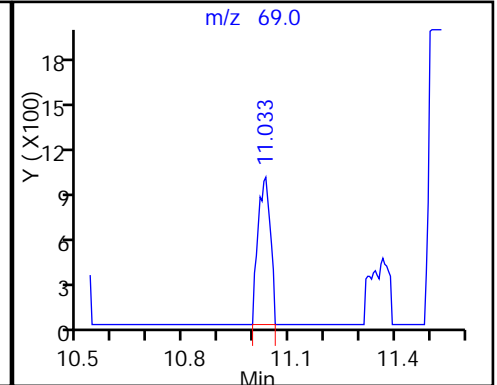
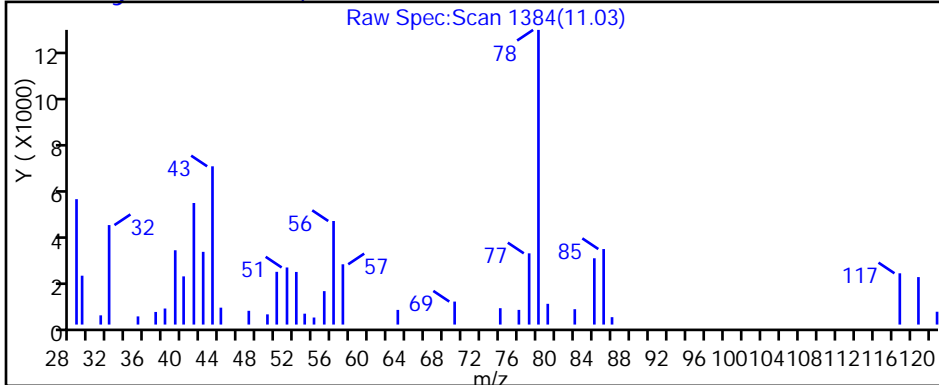
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

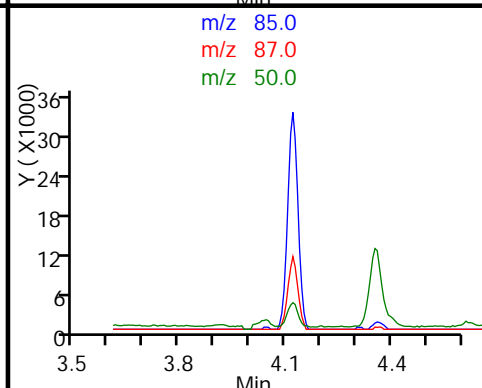
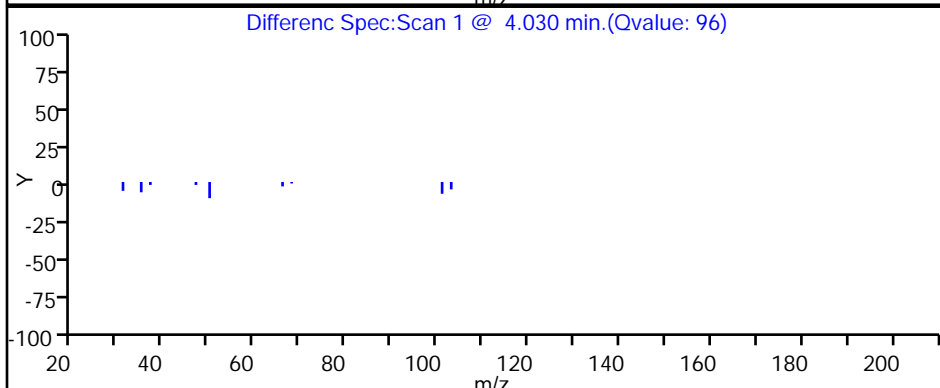
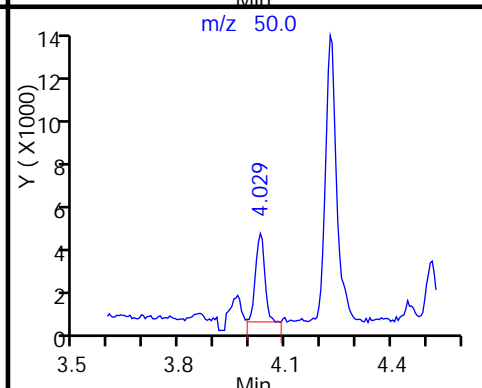
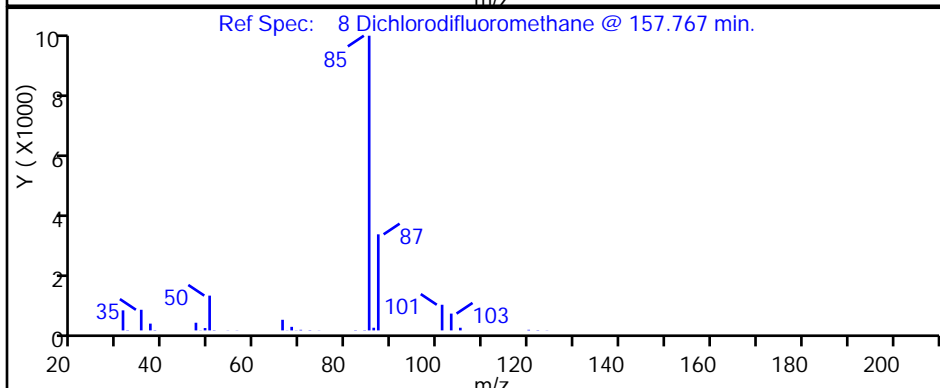
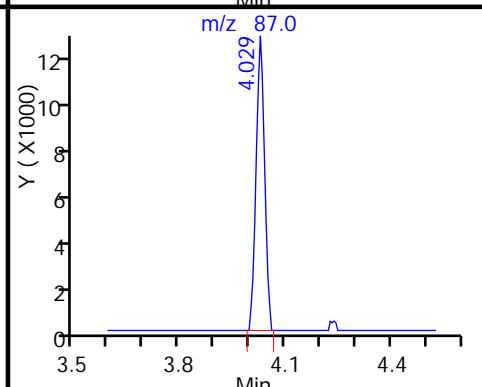
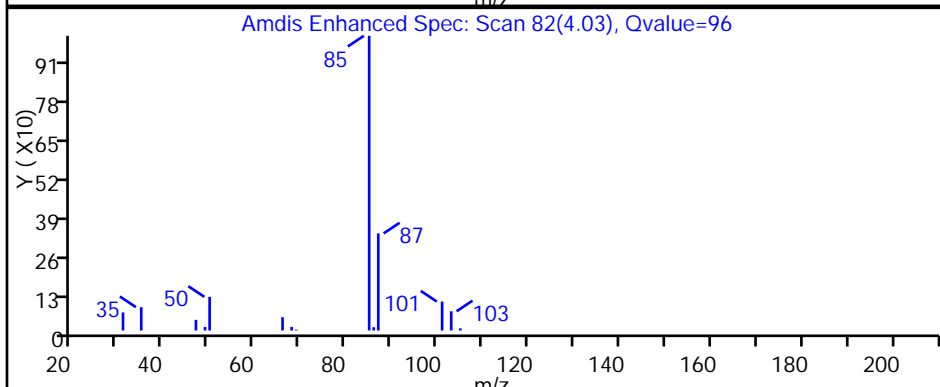
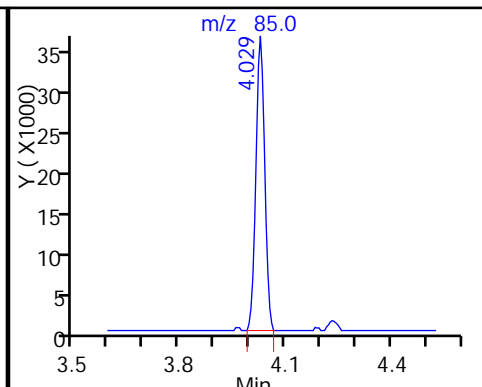
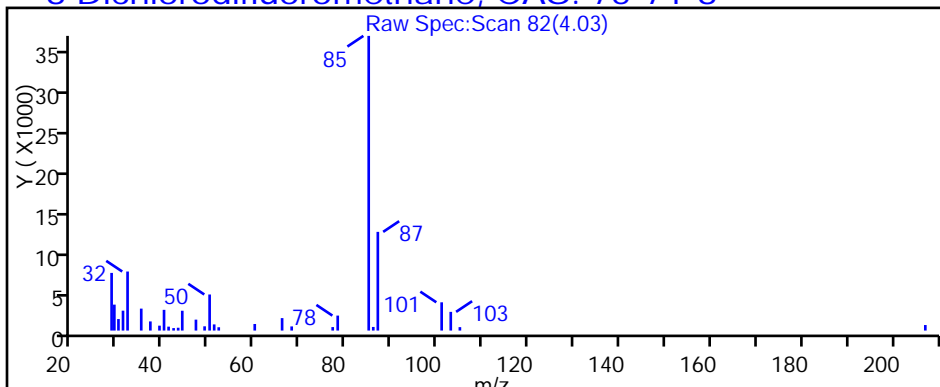
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

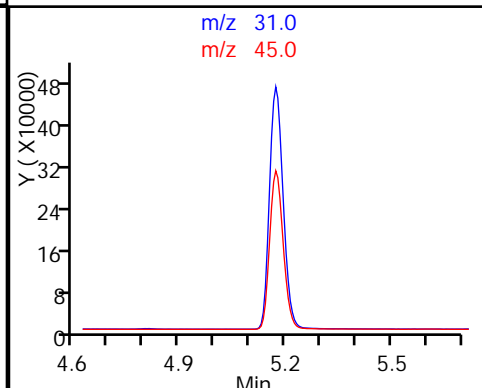
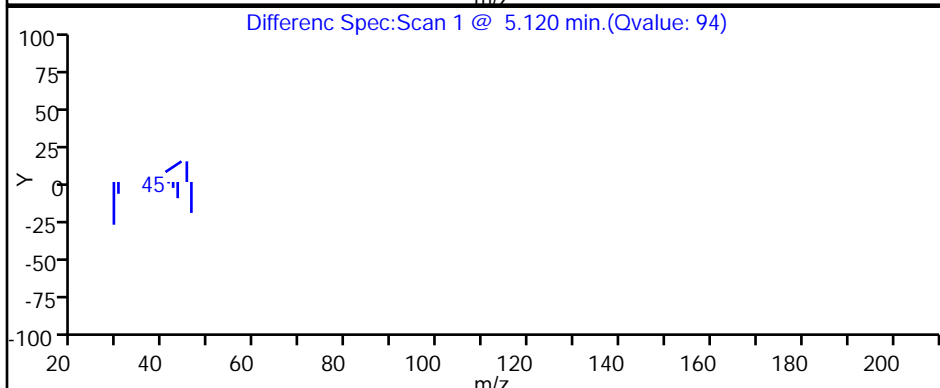
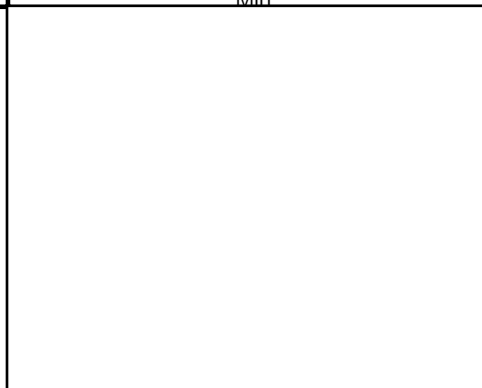
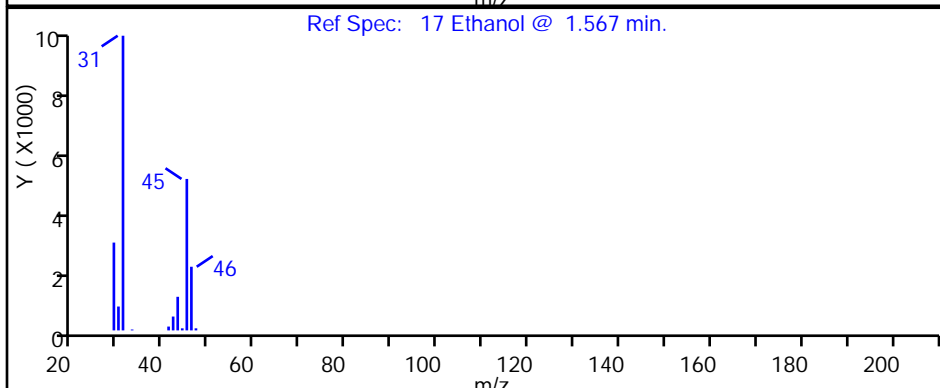
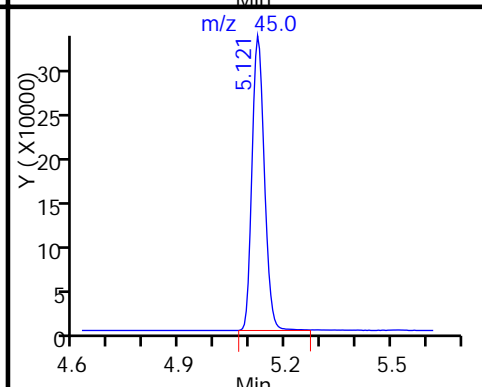
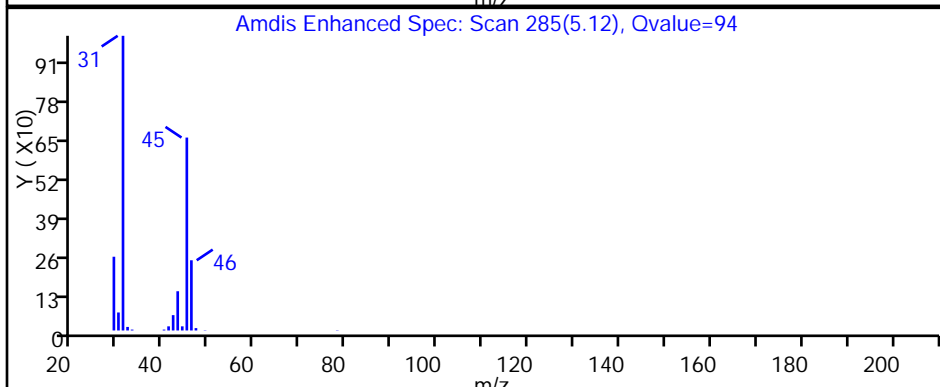
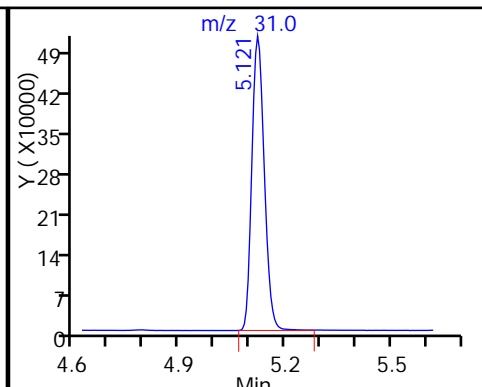
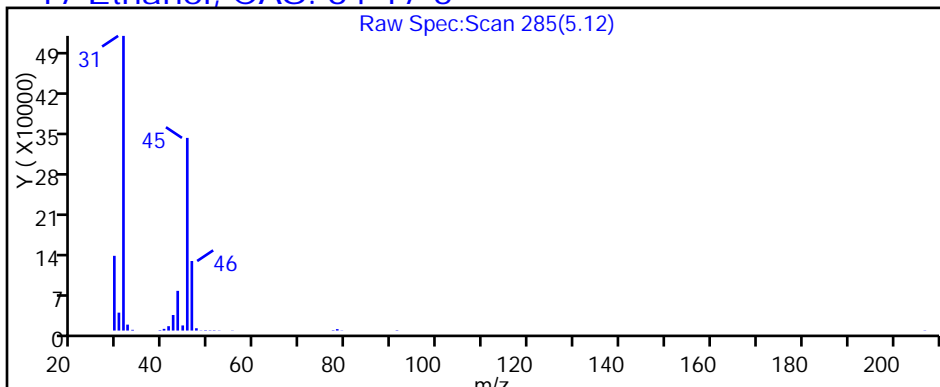
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

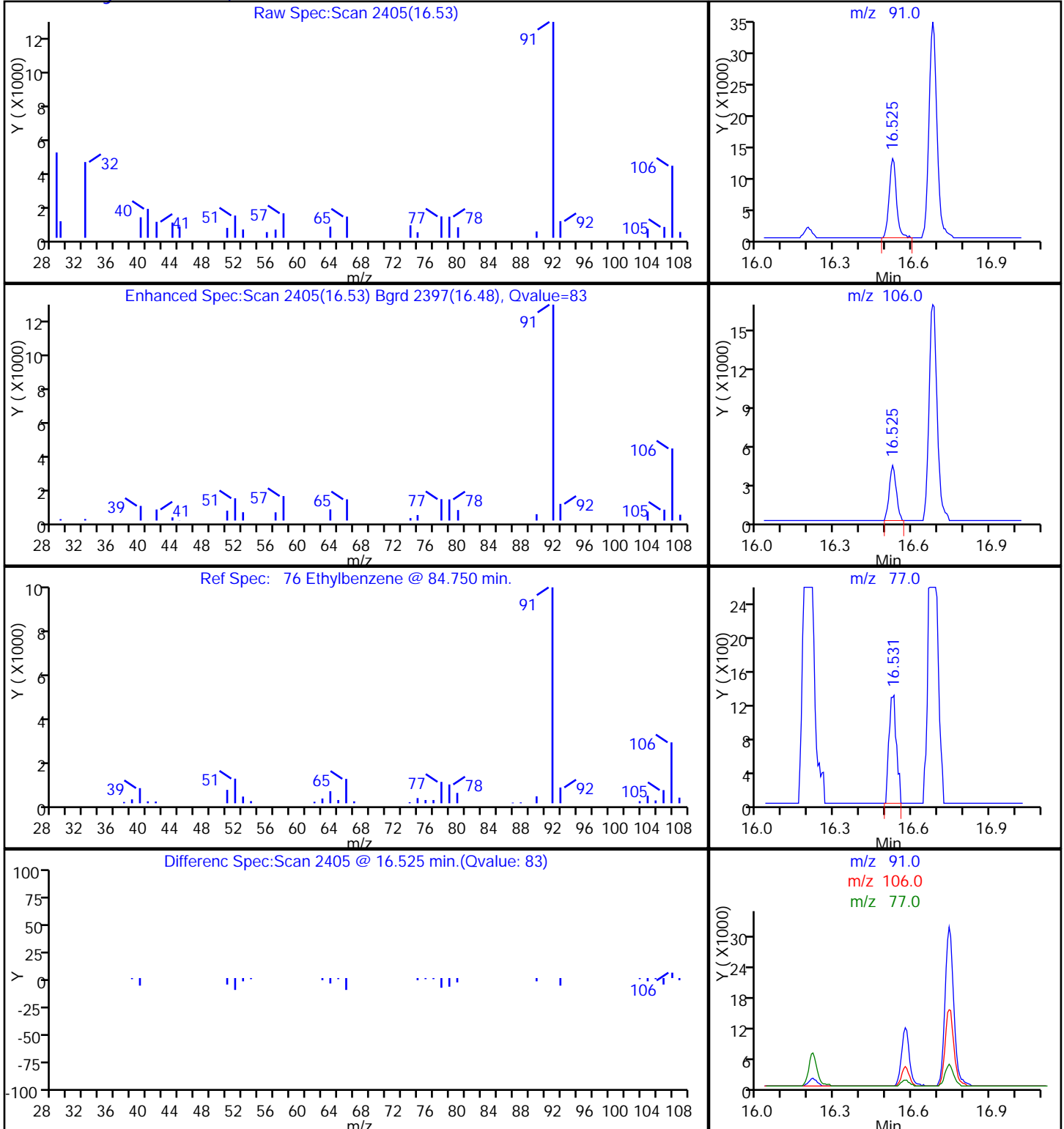
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

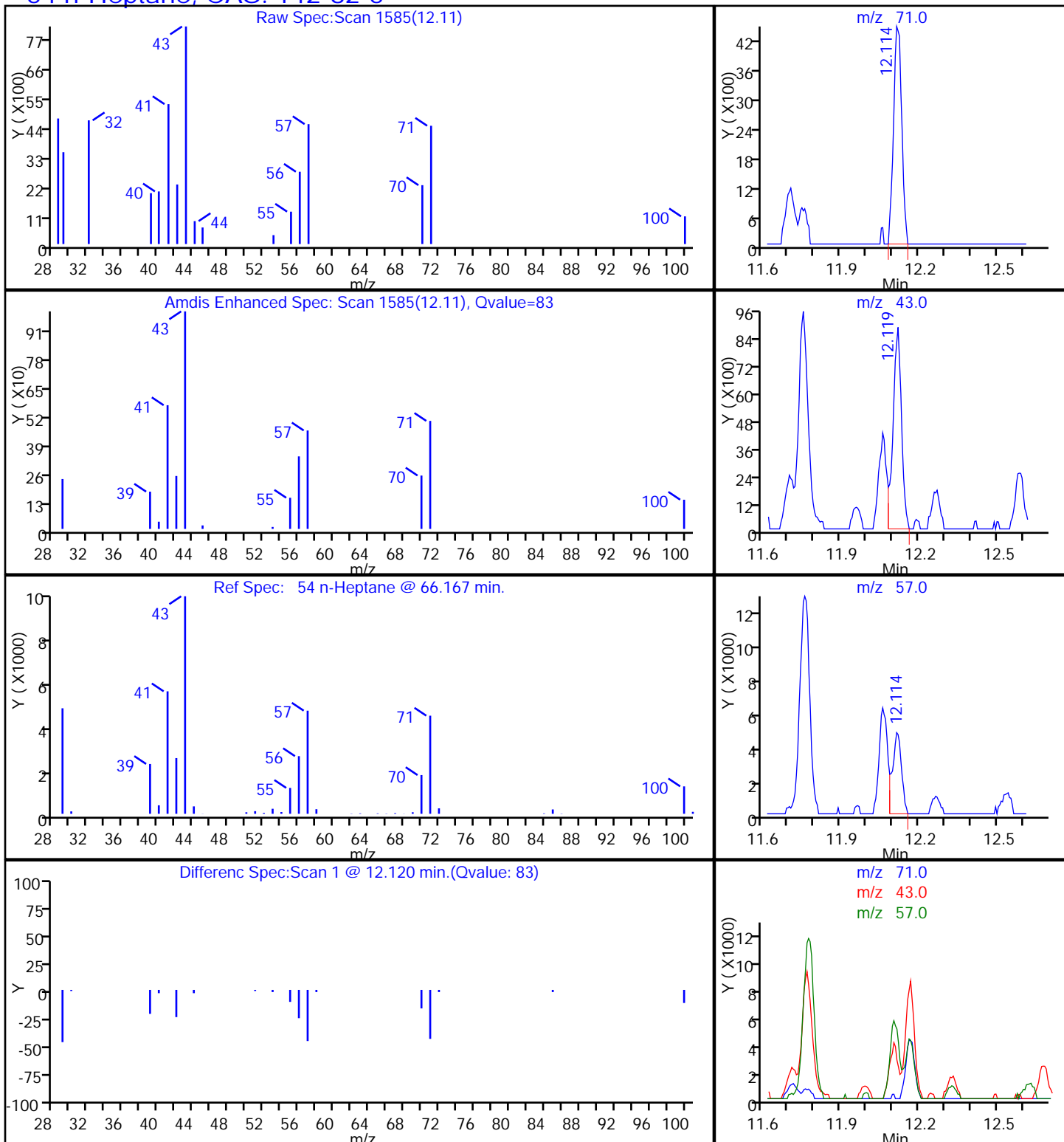
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

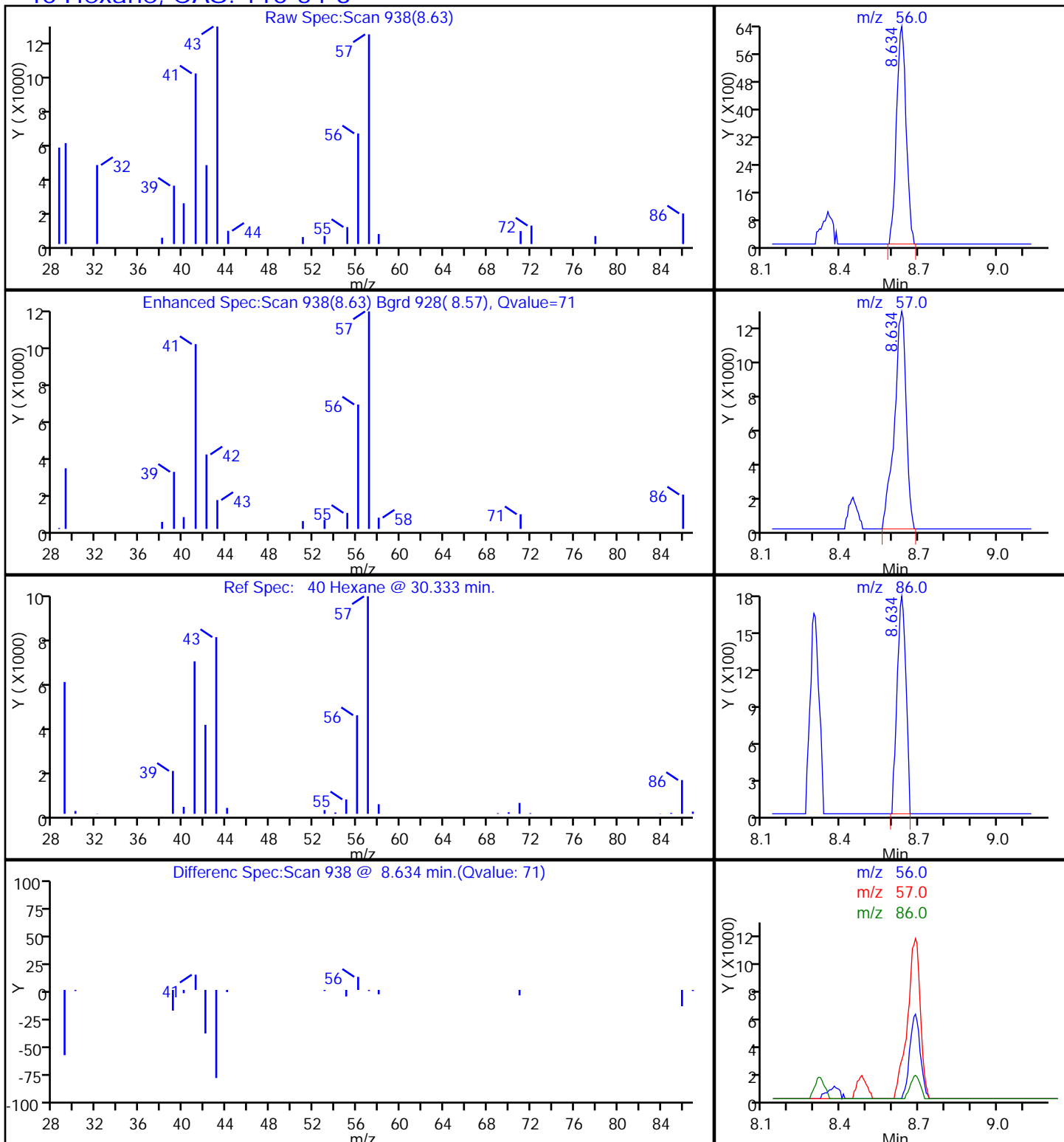
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

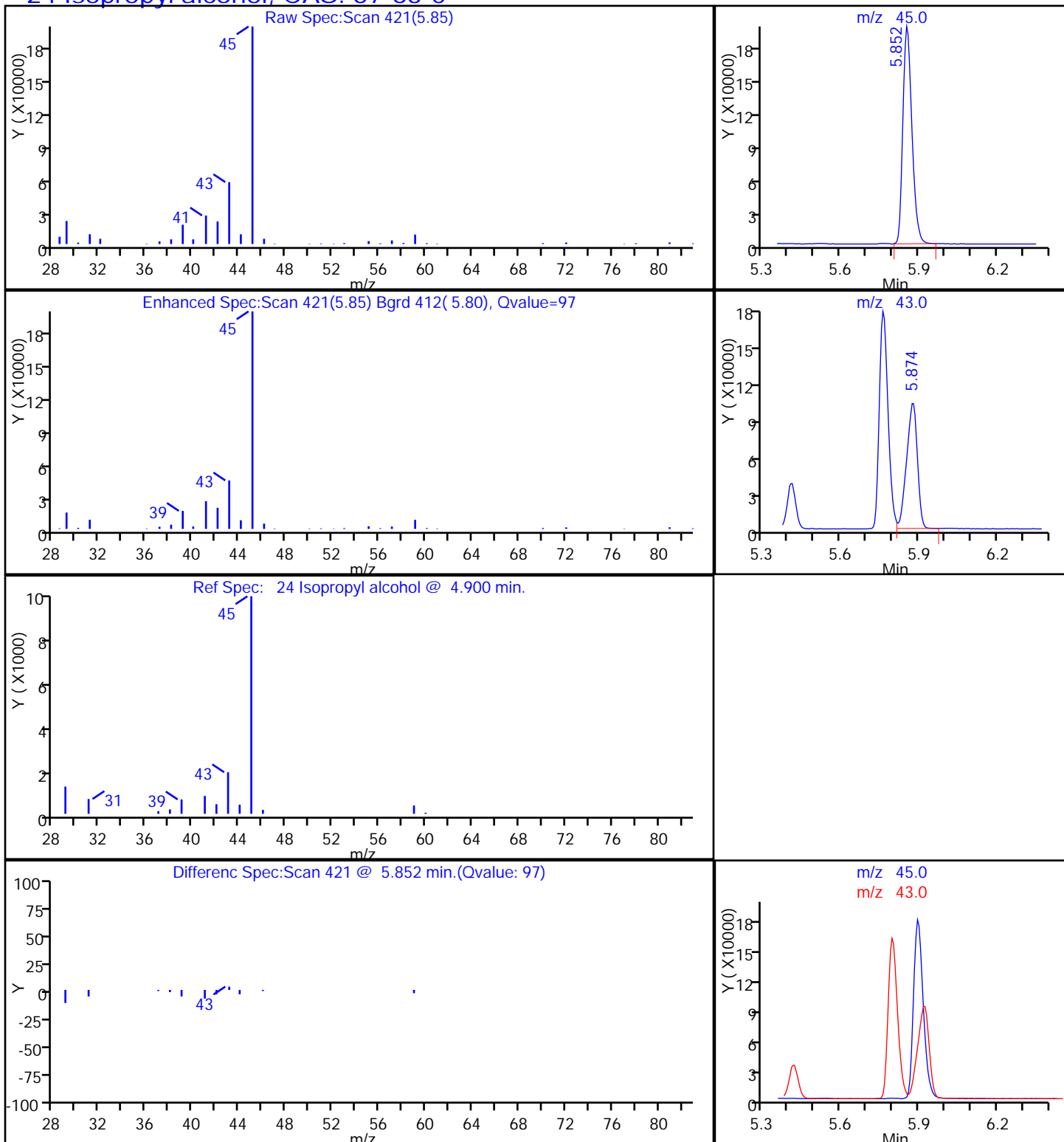
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

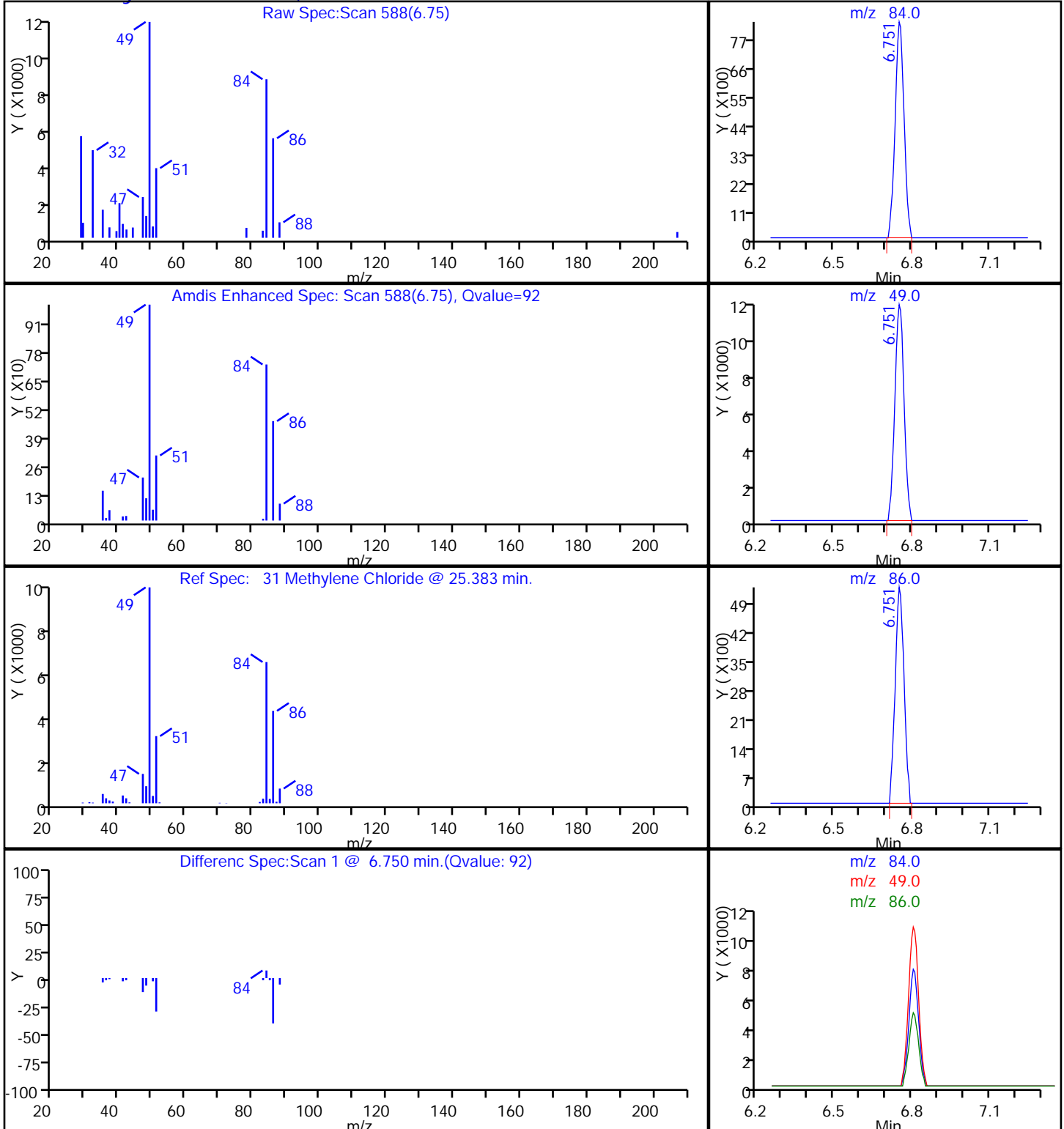
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

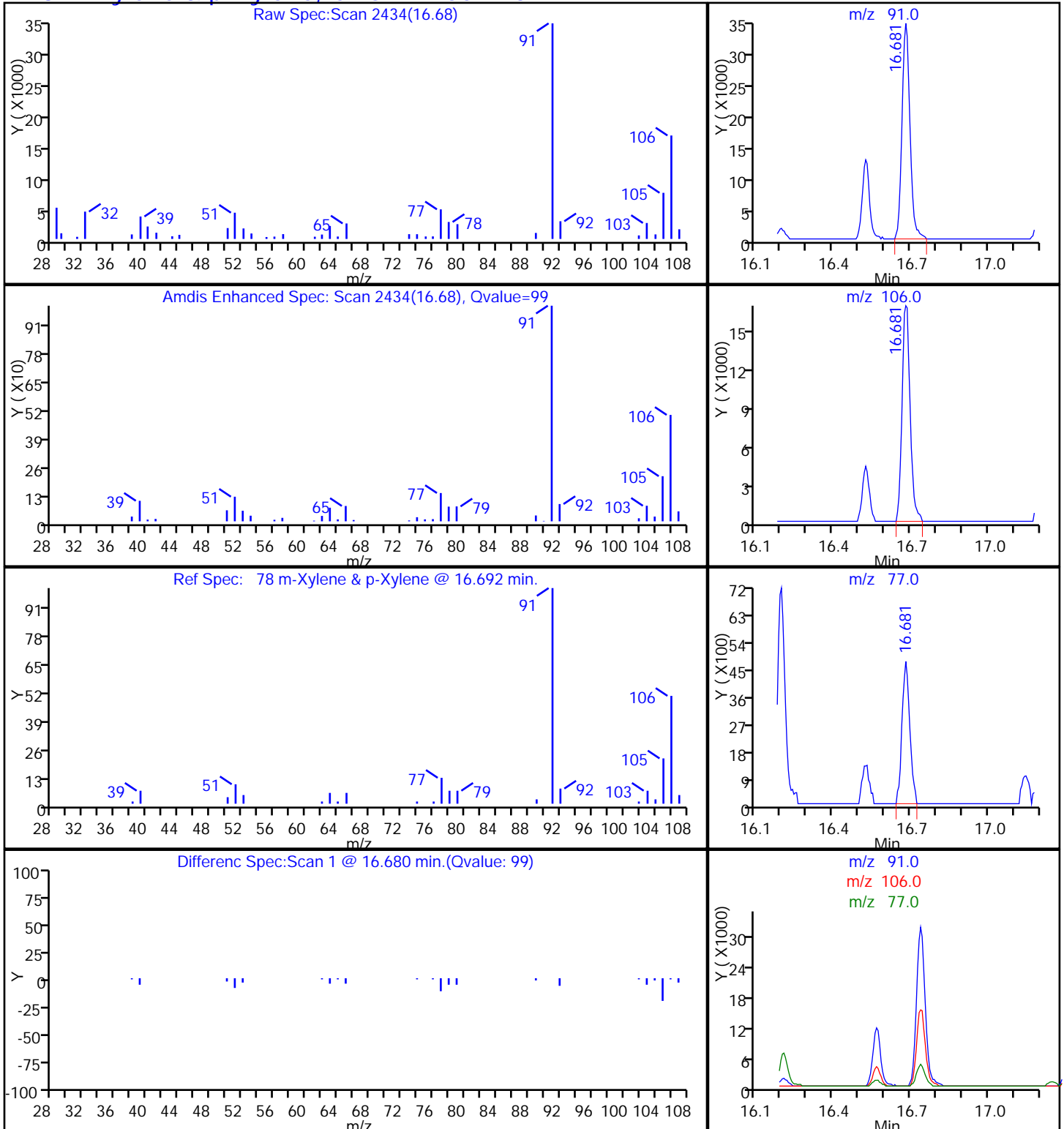
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

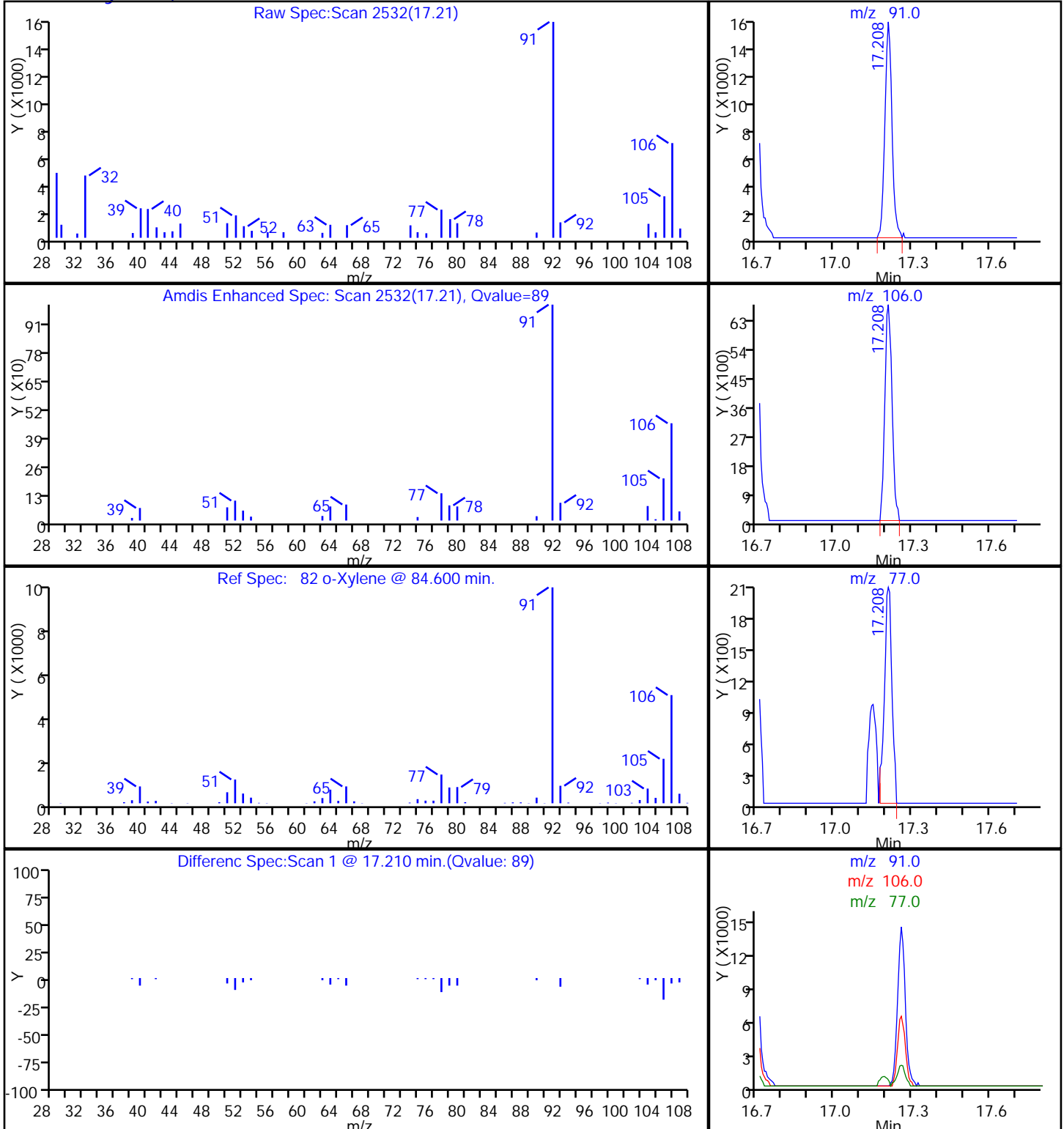
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

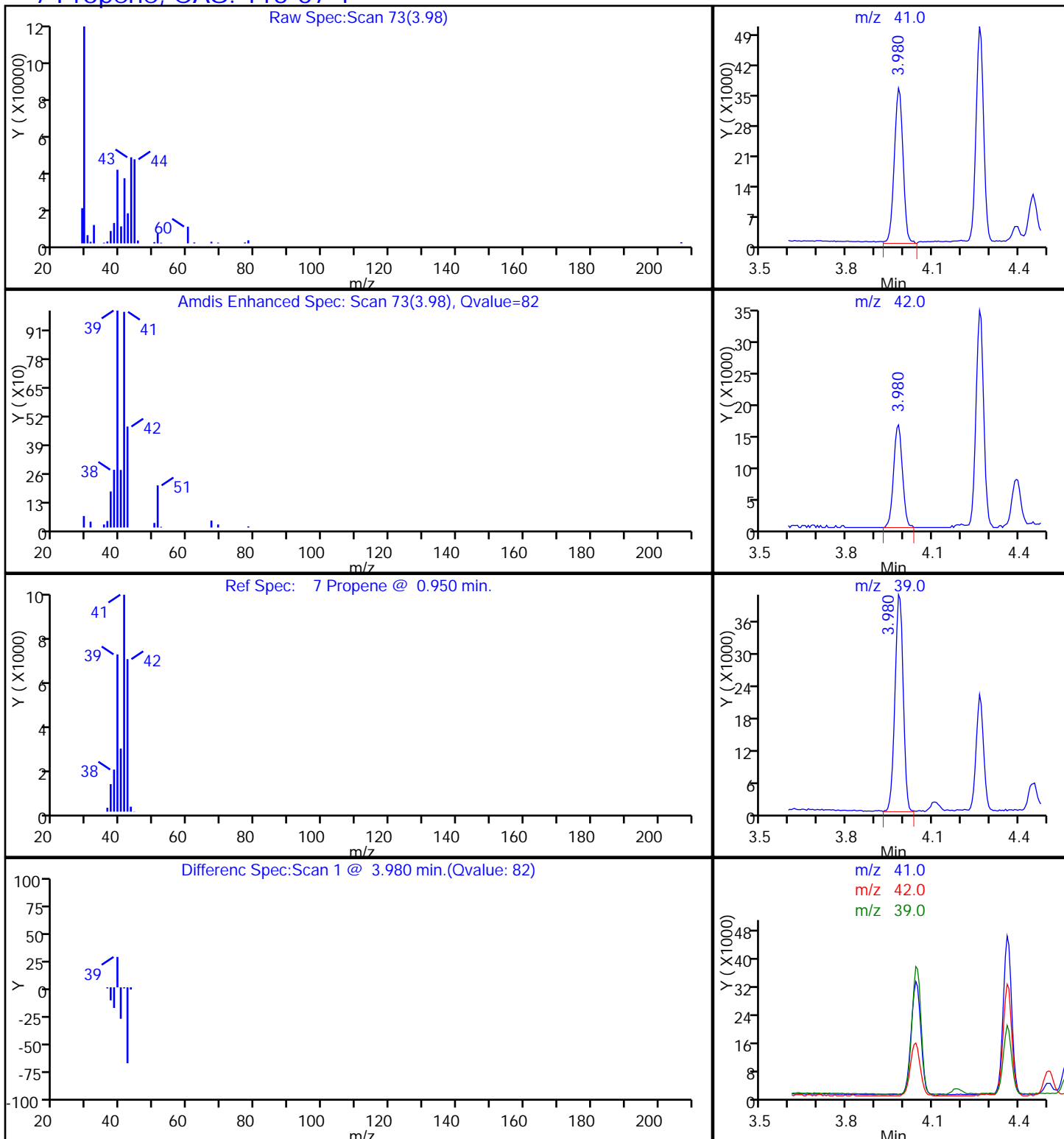
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

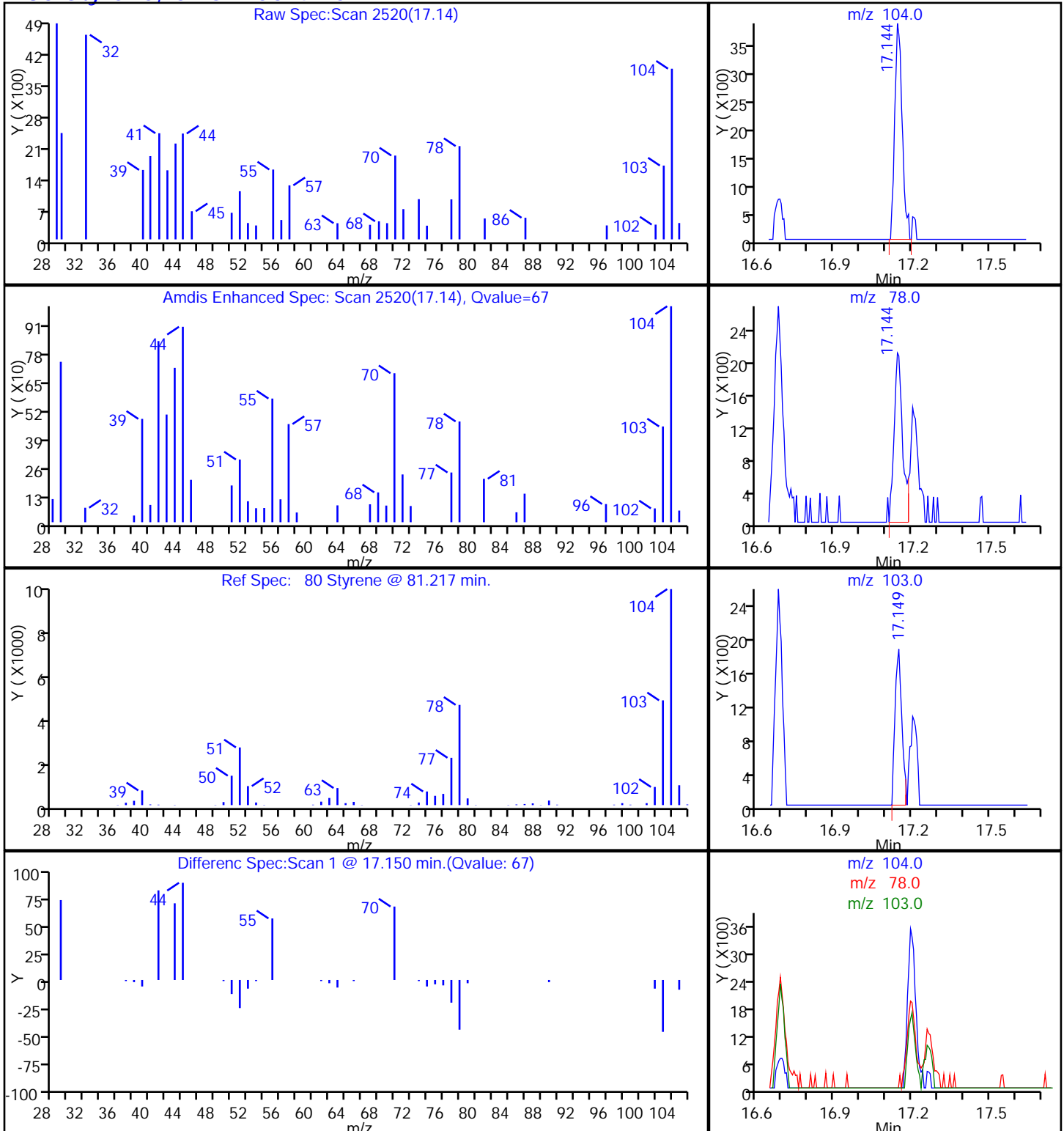
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

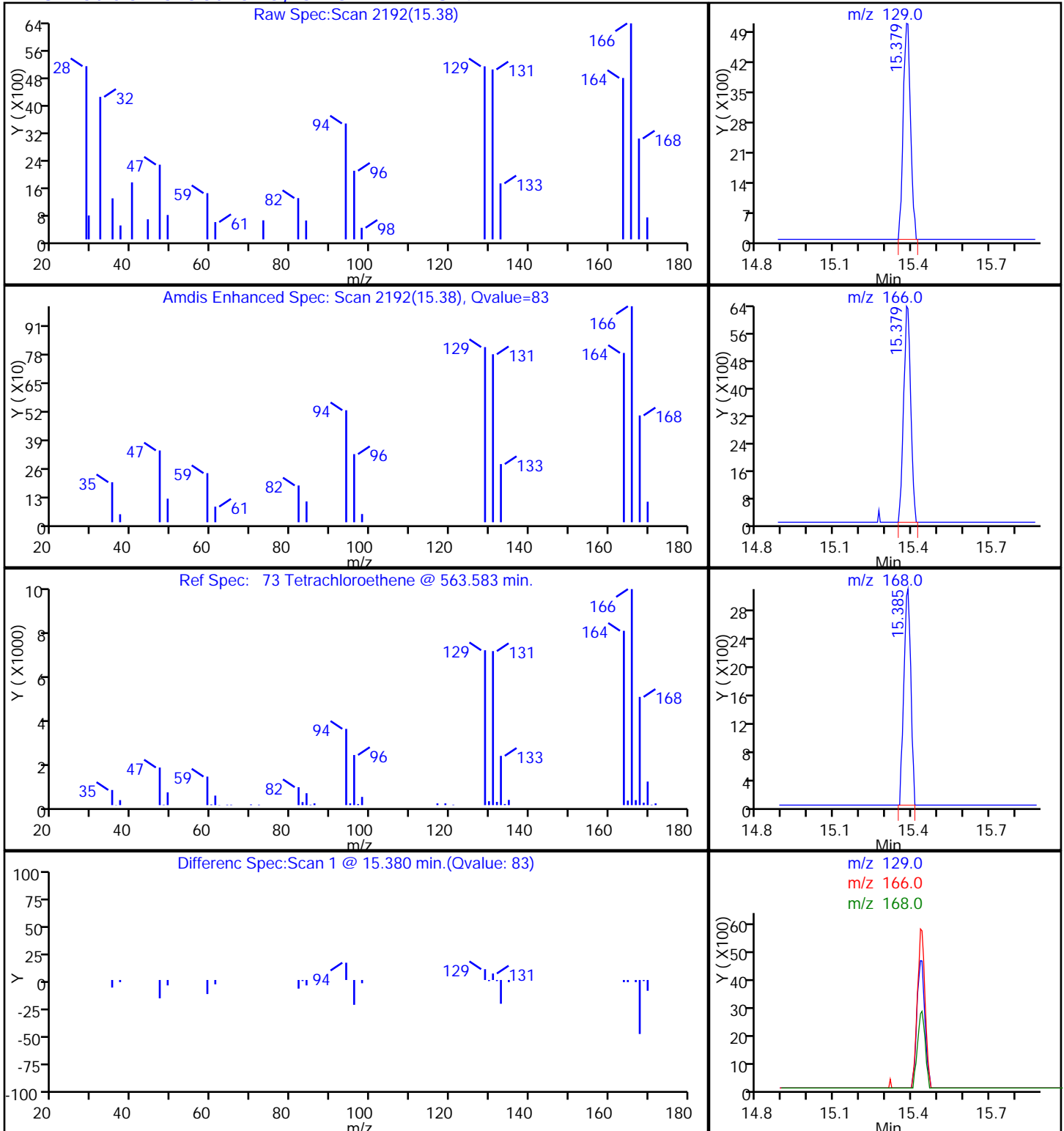
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

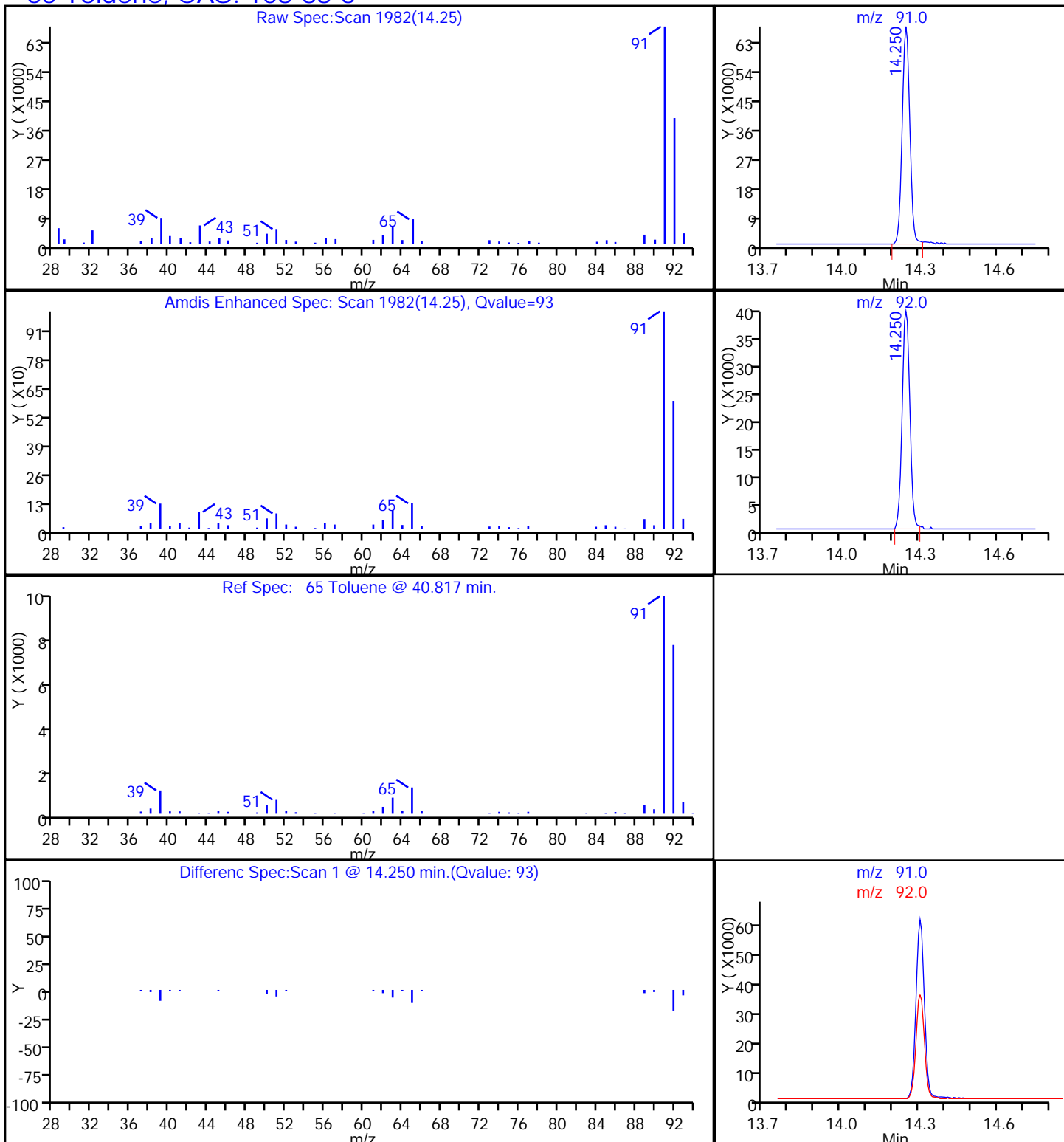
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P214.D

Injection Date: 19-Mar-2014 07:51:30

Instrument ID: MJ

Lims ID: 140-1063-A-12

Lab Sample ID: 140-1063-12

Client ID: PCV-IA3-B11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.6400

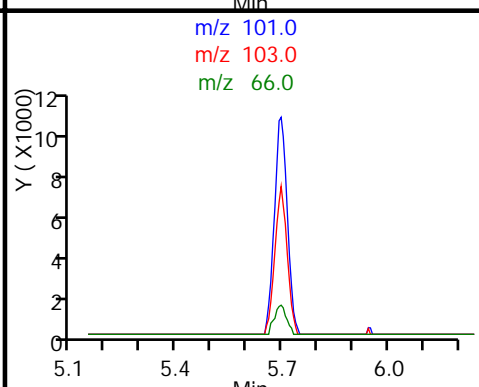
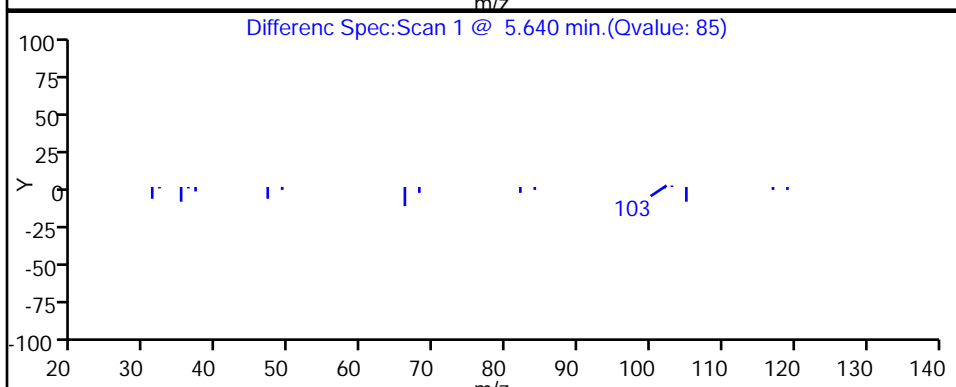
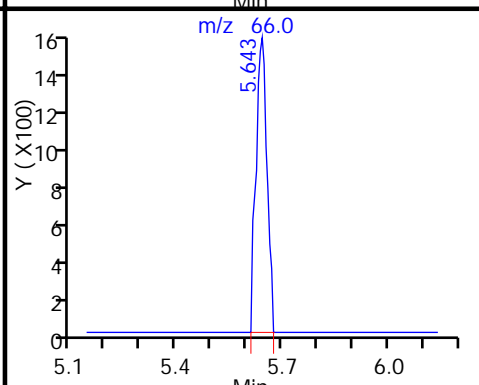
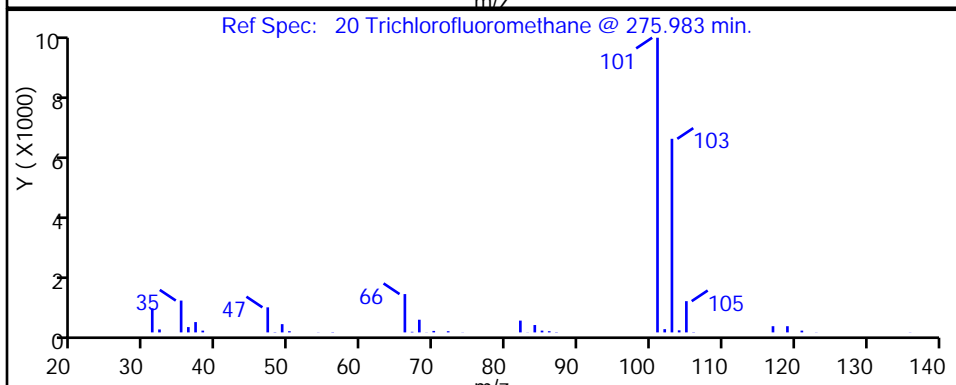
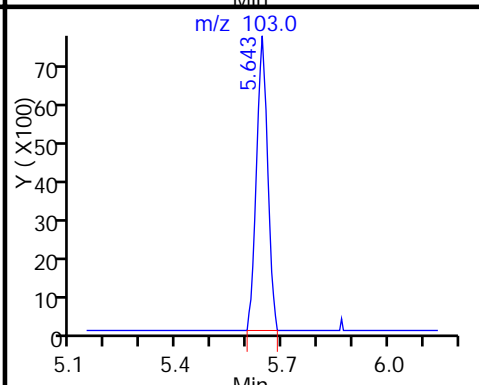
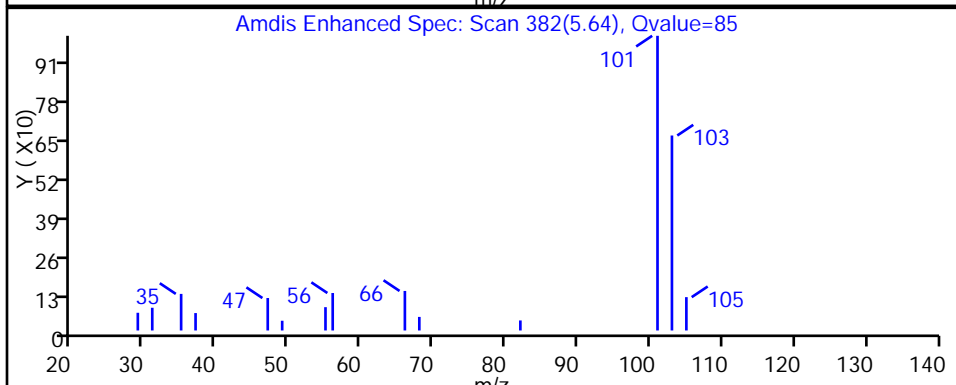
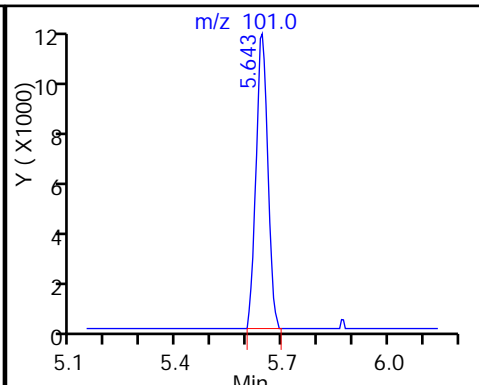
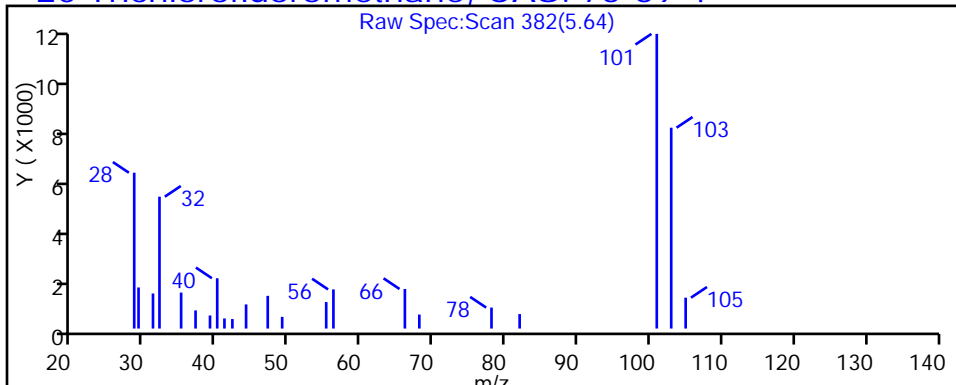
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13
 Matrix: Air Lab File ID: JC18P215.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:04
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.19	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.51		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.46	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.56		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.092	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.32	J	0.50	0.045
67-64-1	Acetone	58.08	3.0	J	5.0	1.4
71-43-2	Benzene	78.11	0.90		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13
 Matrix: Air Lab File ID: JC18P215.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:04
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.092	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.49	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.17	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	68		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.068
142-82-5	Heptane	100.21	0.26	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.47	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.37	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.73		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.28		0.20	0.061
115-07-1	Propene	42.08	2.3	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.31		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.6		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13
 Matrix: Air Lab File ID: JC18P215.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:04
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 08:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13
 Matrix: Air Lab File ID: JC18P215.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:04
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.92	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	2.4		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	6.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	2.0		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.45	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.3	J	2.0	0.18
67-64-1	Acetone	58.08	7.2	J	12	3.3
71-43-2	Benzene	78.11	2.9		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13
 Matrix: Air Lab File ID: JC18P215.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:04
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 08:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.45	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.0	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.60	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	130		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	1.1	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.6	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.2		0.87	0.26
115-07-1	Propene	42.08	3.9	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.1		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E14 Lab Sample ID: 140-1063-13
 Matrix: Air Lab File ID: JC18P215.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:04
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 08:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D
 Lims ID: 140-1063-A-13 Lab Sample ID: 140-1063-13
 Client ID: IA1-E14
 Sample Type: Client
 Inject. Date: 19-Mar-2014 08:44:30 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-13
 Misc. Info.: J031814,TO15,,140-0000527-021
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 12:46:20 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 12:46:20

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.388	-0.012	90	372093	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.539	-0.006	94	1765083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.198	-0.001	86	1488275	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.817	-0.001	92	1027619	3.90	
7 Propene	41	3.975	3.971	0.004	95	103360	0.9059	
8 Dichlorodifluoromethane	85	4.029	4.030	-0.001	96	67083	0.1820	
9 Chloromethane	52	4.233	4.229	0.004	97	8171	0.1952	
17 Ethanol	31	5.115	5.116	-0.001	94	812443	27.2	
19 2-Methylbutane	43	5.406	5.407	-0.001	92	136213	0.8619	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	91	25854	0.0798	
23 Acetone	58	5.766	5.767	-0.001	92	64127	1.21	
24 Isopropyl alcohol	45	5.852	5.848	0.004	97	289878	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.579	6.580	-0.001	68	6299	0.0281	
31 Methylene Chloride	84	6.751	6.757	-0.006	86	14882	0.1495	
35 2-Methylpentane	43	7.622	7.623	-0.001	93	64641	0.2251	
39 2-Butanone (MEK)	72	8.591	8.586	0.005	81	6440	0.1828	
40 Hexane	56	8.628	8.635	-0.007	90	18725	0.1872	
43 Chloroform	83	9.392	9.393	-0.001	16	7988	0.0368	
48 Benzene	78	11.017	11.023	-0.006	95	108740	0.3591	
49 Cyclohexane	69	11.027	11.034	-0.007	42	4182	0.0700	
50 Carbon tetrachloride	117	11.044	11.050	-0.006	79	6622	0.0265	
53 Isooctane	57	11.759	11.760	-0.001	95	105064	0.2032	
54 n-Heptane	71	12.120	12.120	0.0	86	11167	0.1043	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.368	0.005	86	23607	0.1276	
65 Toluene	91	14.250	14.256	-0.006	93	172533	0.6249	
73 Tetrachloroethene	129	15.385	15.386	-0.001	84	15725	0.1223	
76 Ethylbenzene	91	16.525	16.532	-0.007	84	28537	0.0936	
78 m-Xylene & p-Xylene	91	16.681	16.688	-0.007	99	71743	0.2915	
82 o-Xylene	91	17.208	17.215	-0.007	90	27656	0.1109	
88 4-Ethyltoluene	105	18.446	18.447	-0.001	59	12177	0.0367	
89 1,3,5-Trimethylbenzene	120	18.516	18.516	-0.001	58	3468	0.0208	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	81	21634	0.0748	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Worklist Smp#: 21

Client ID: IA1-E14

Purge Vol: 500.000 mL

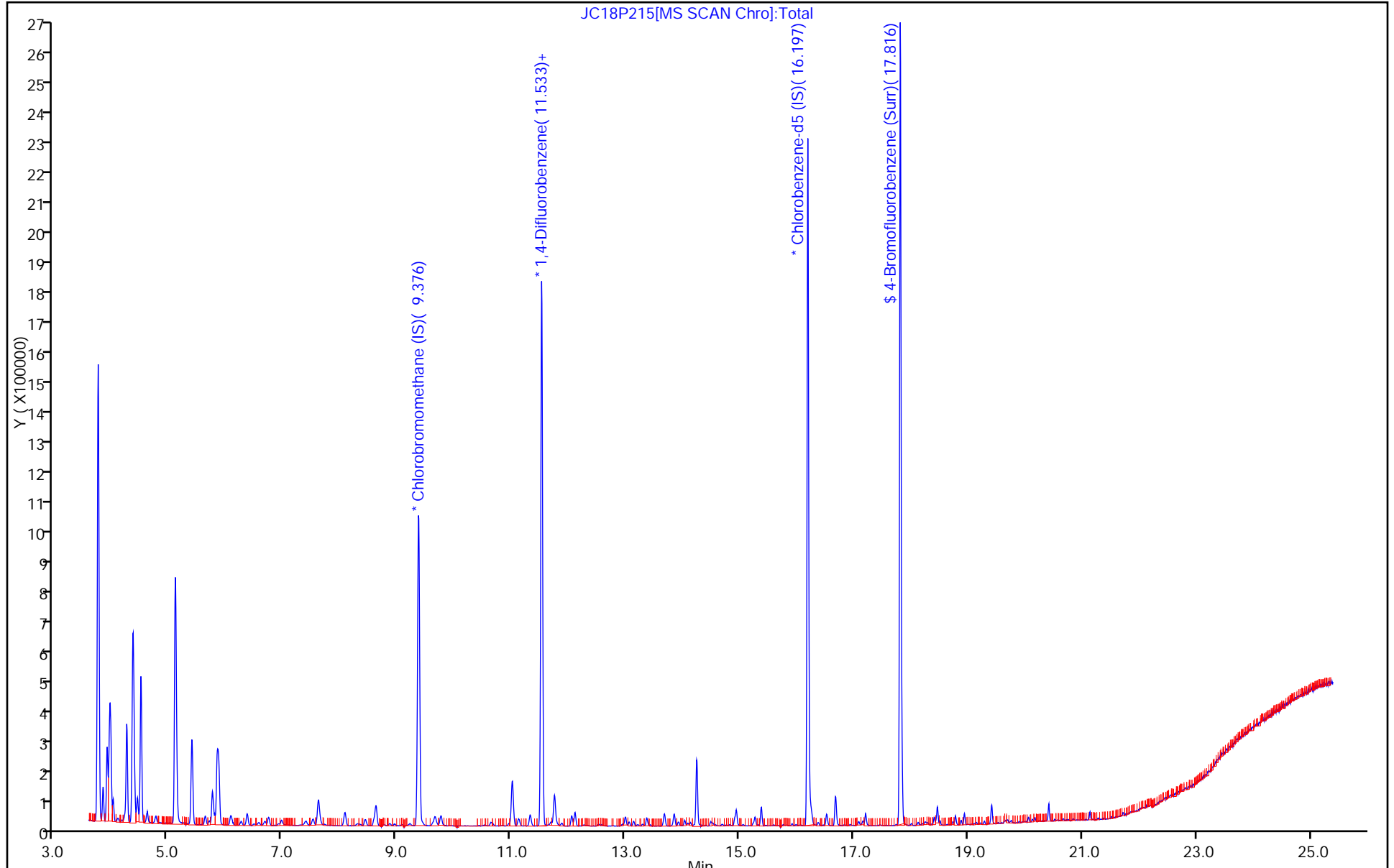
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

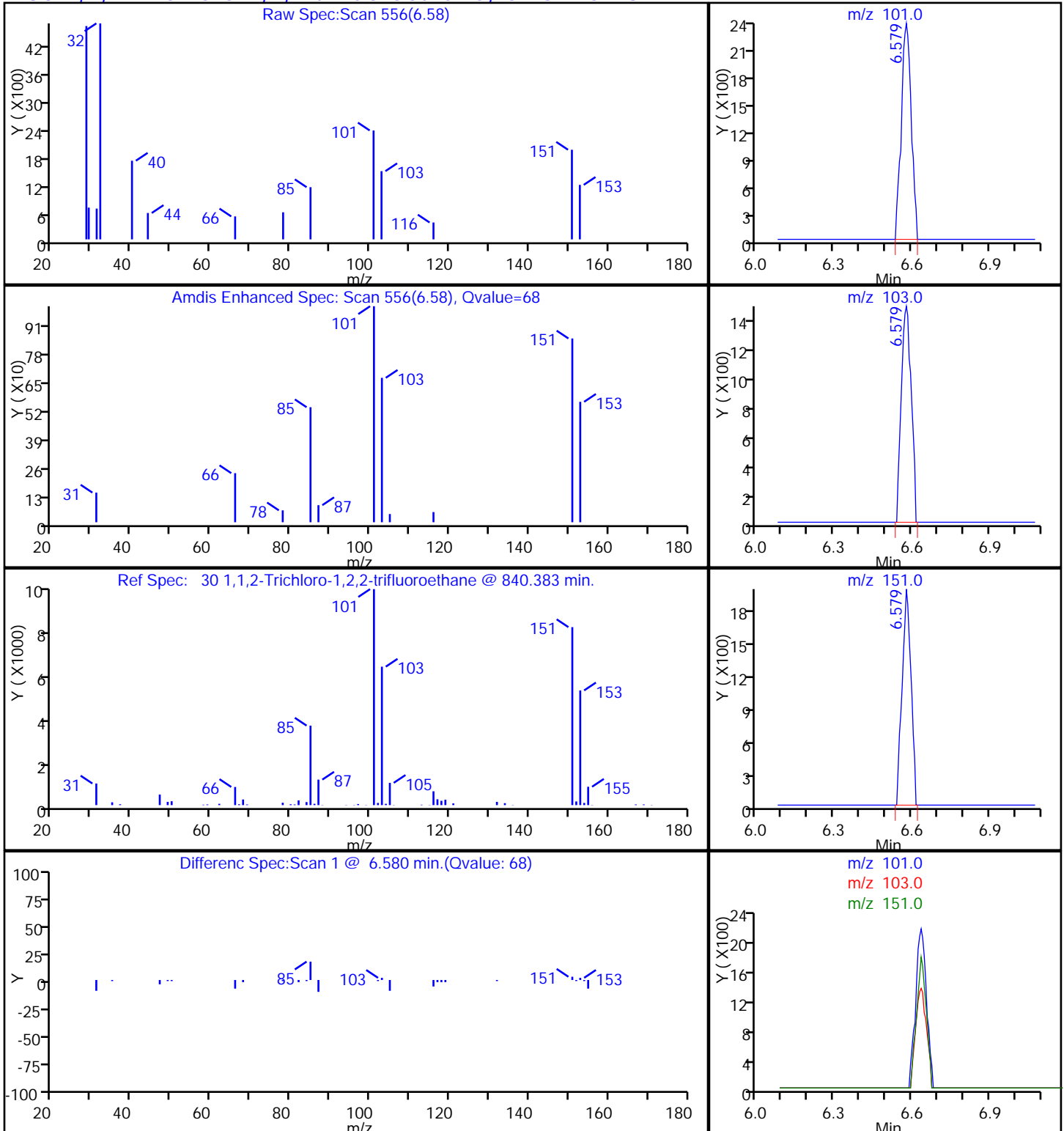
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

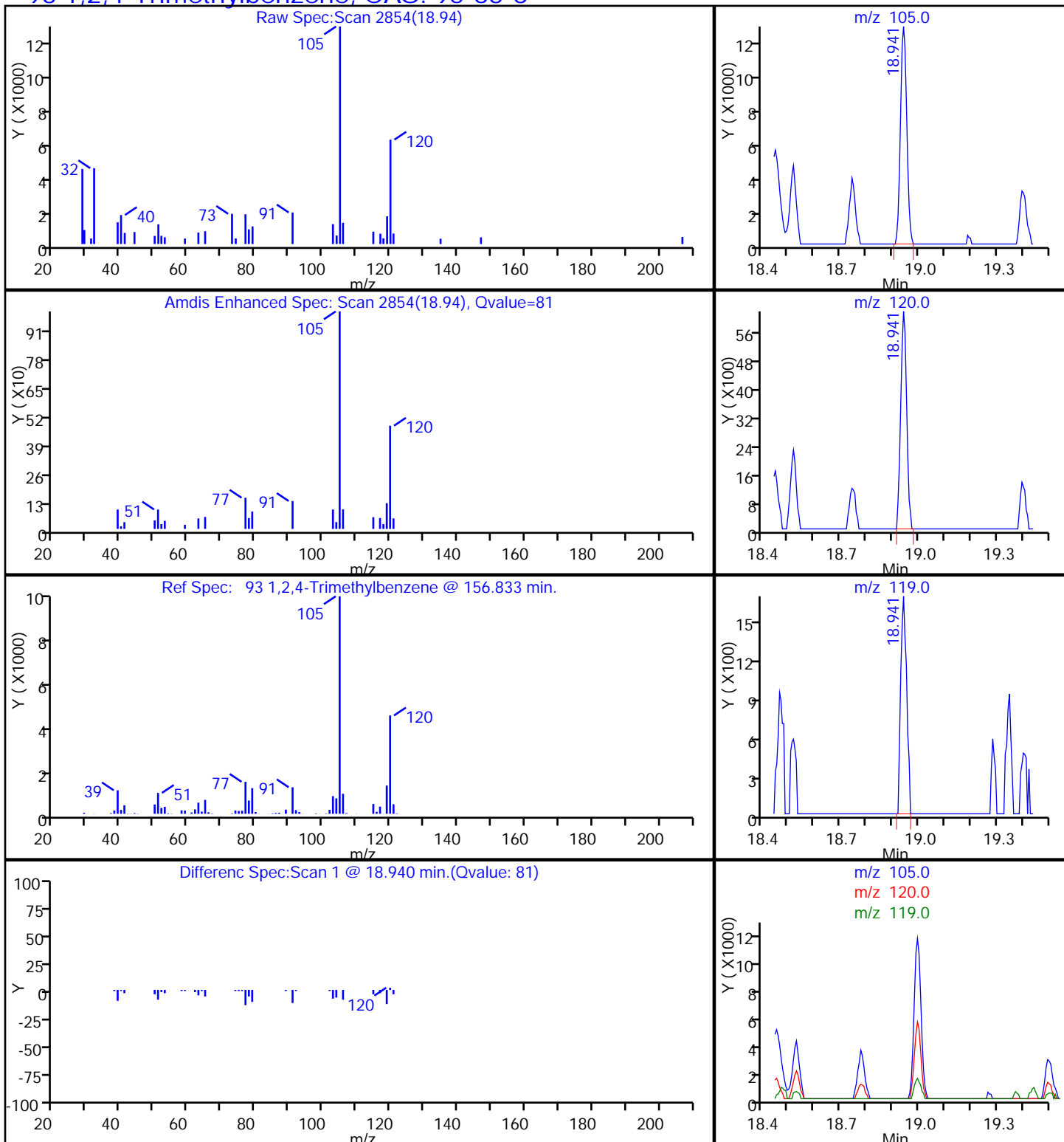
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

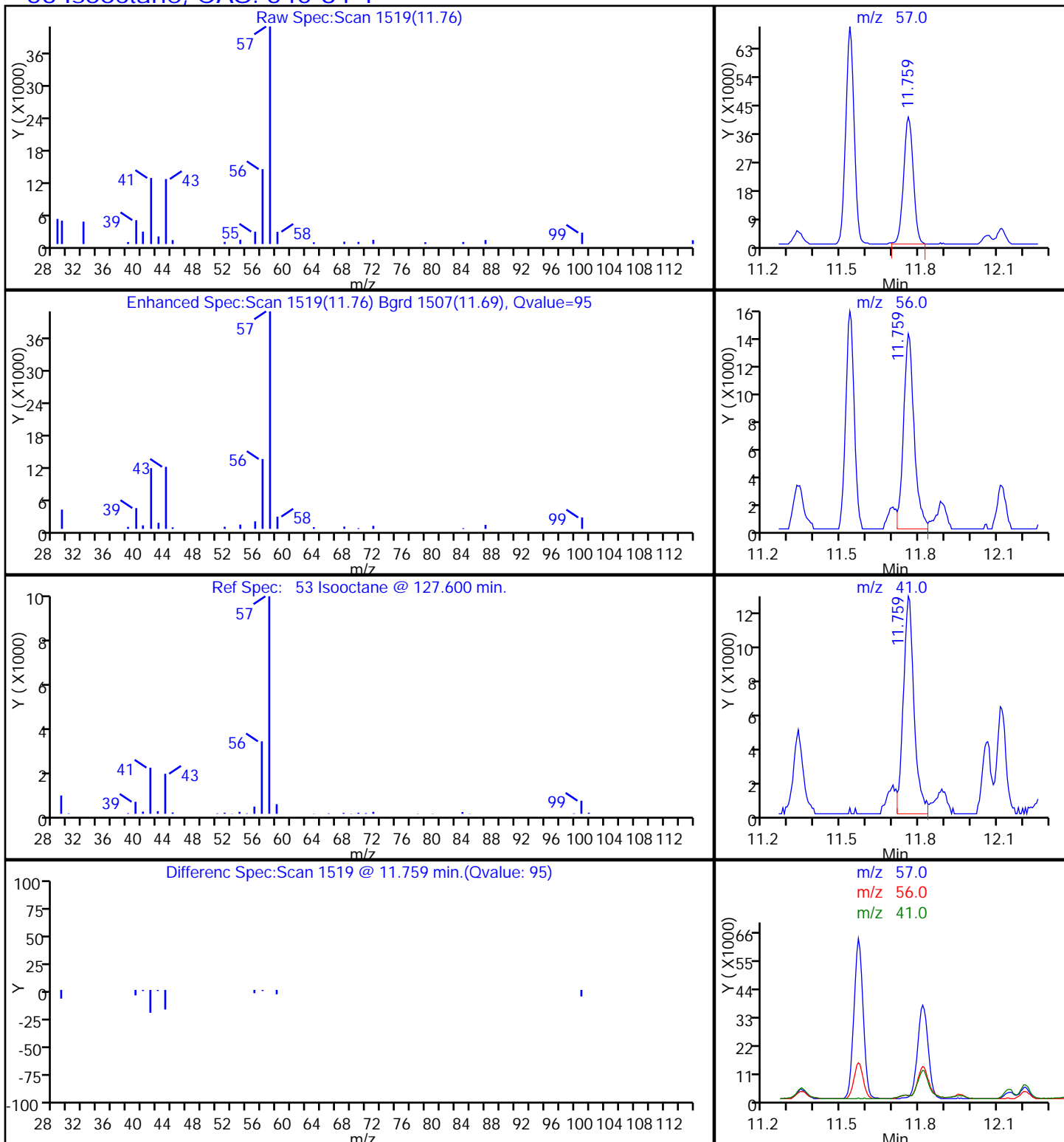
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

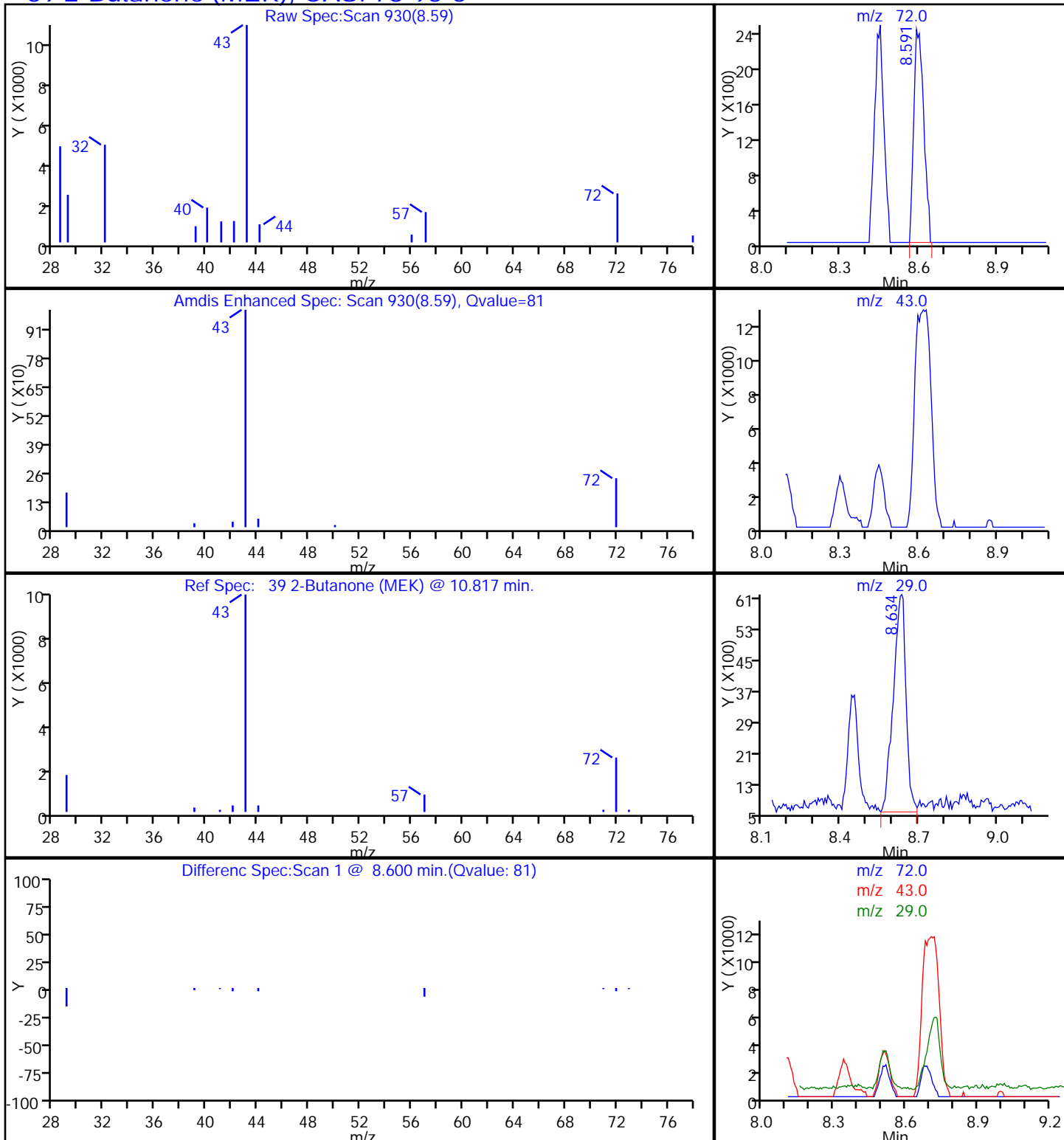
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

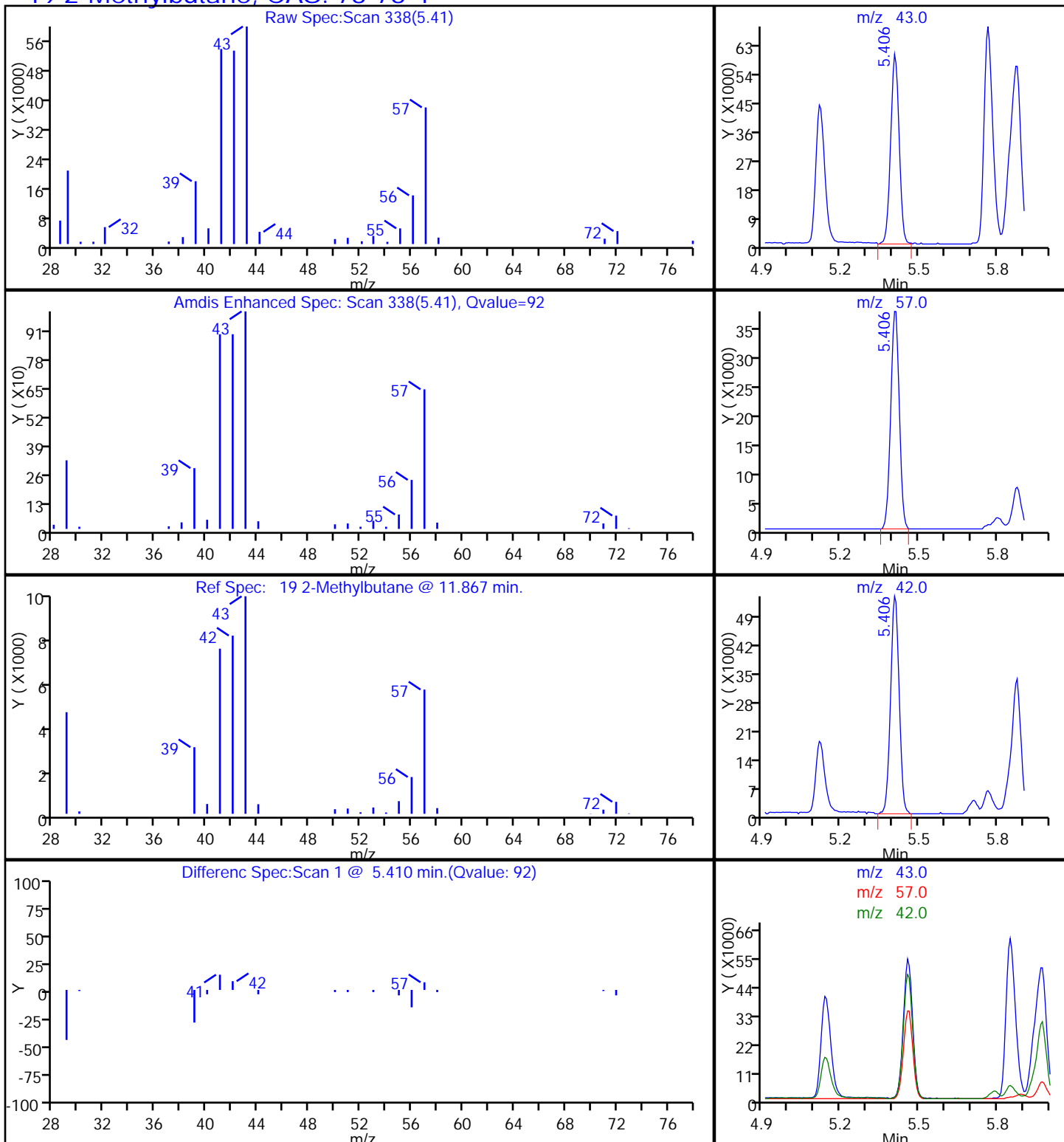
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

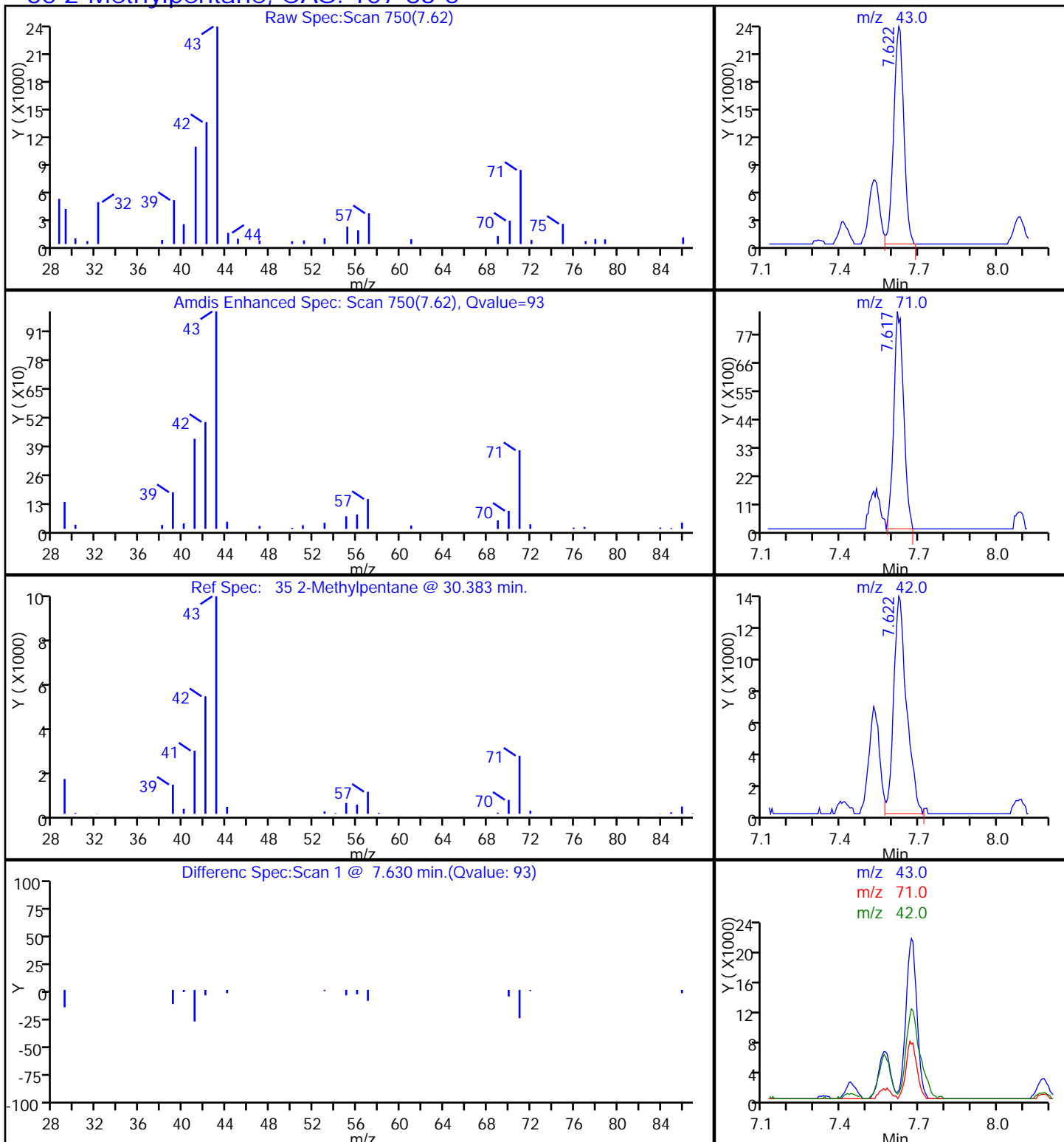
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

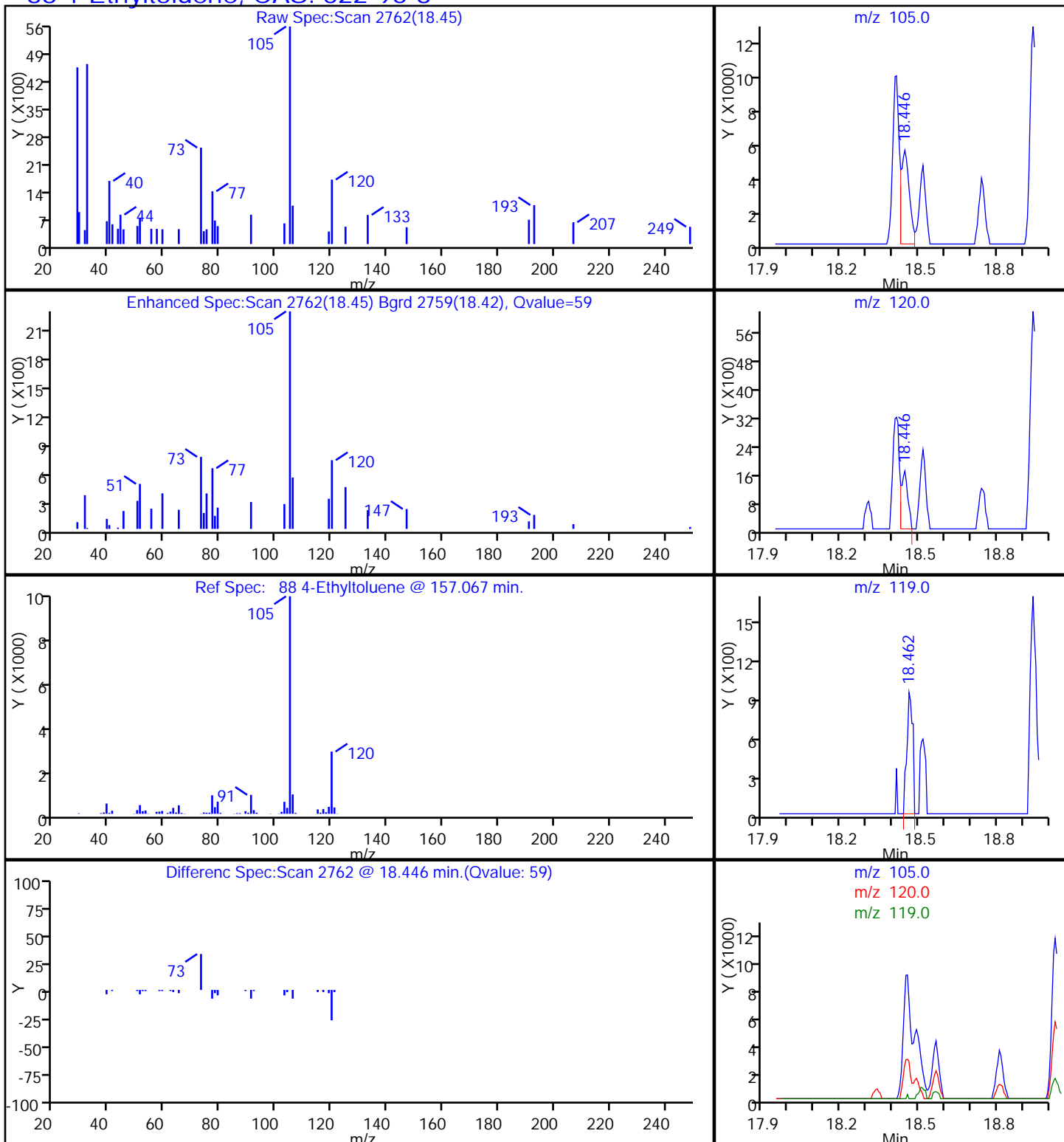
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

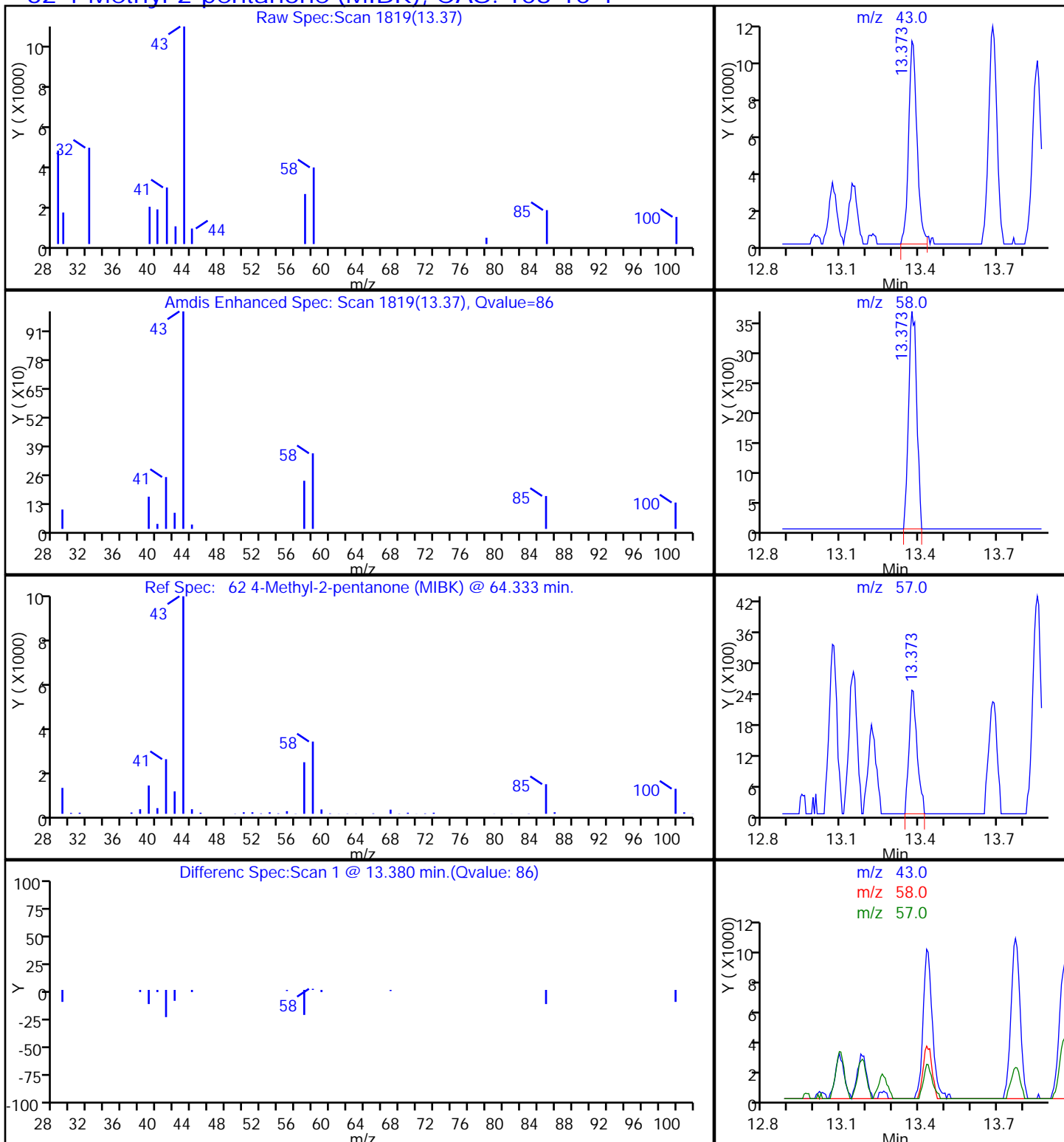
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

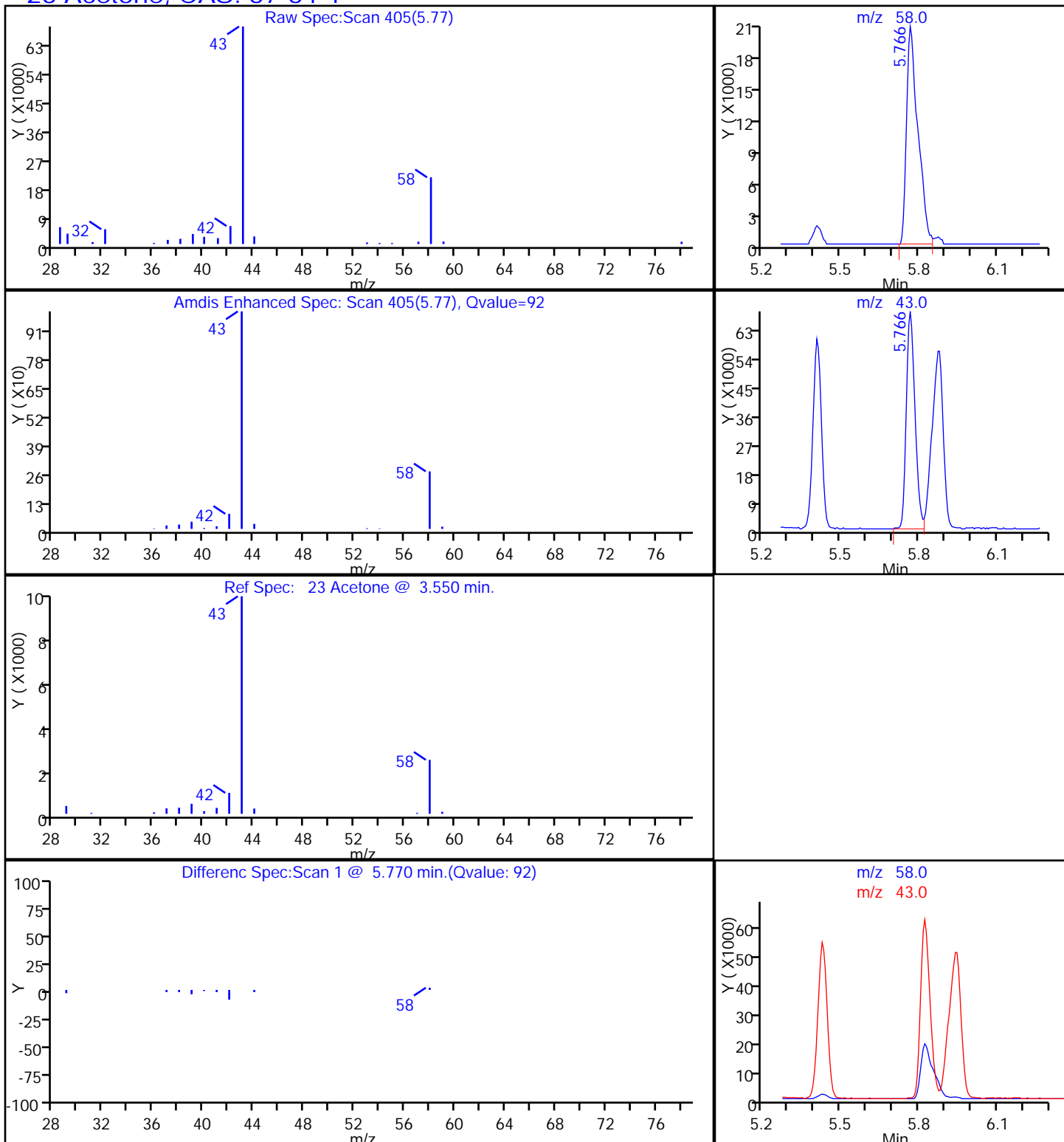
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

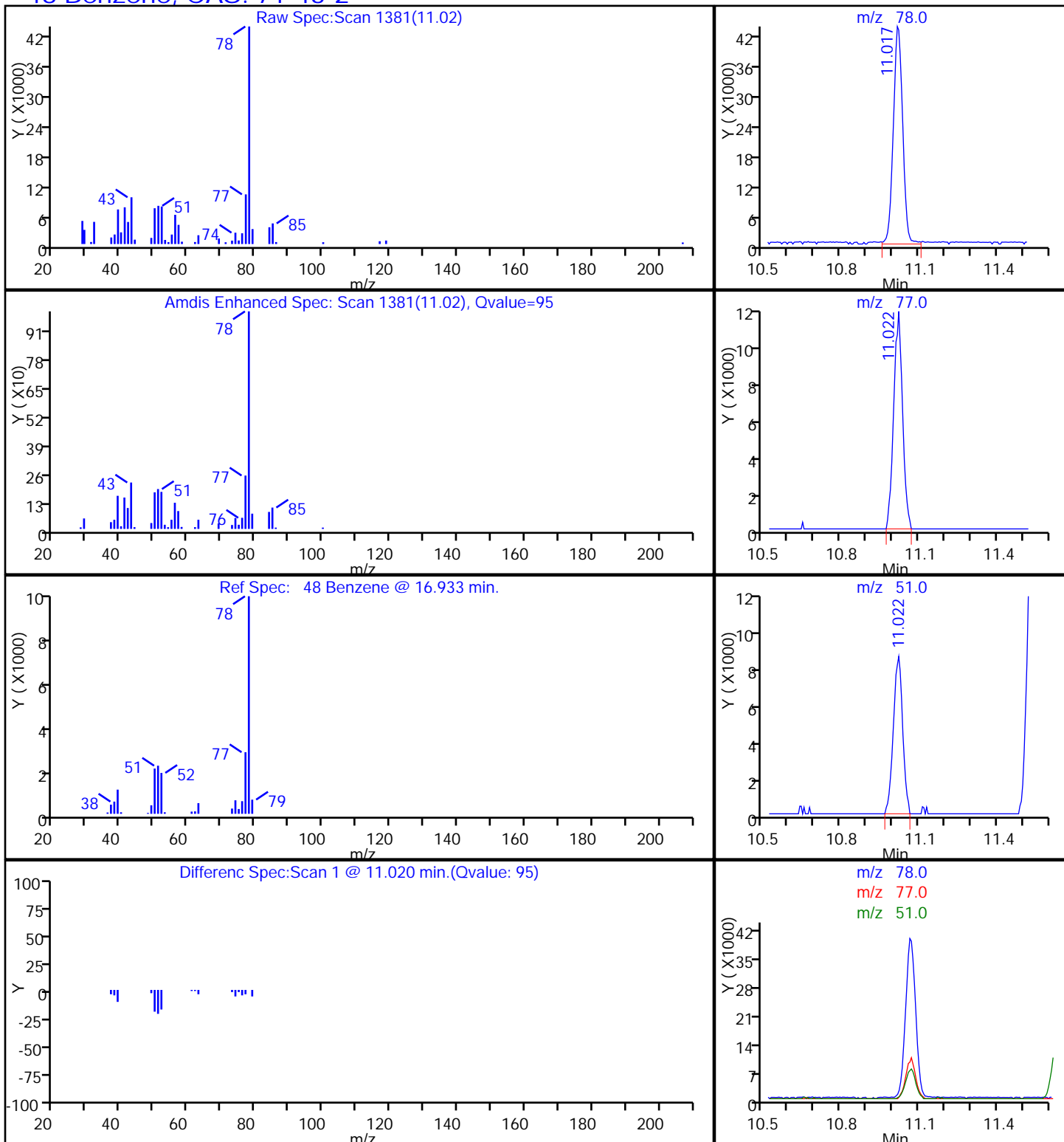
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

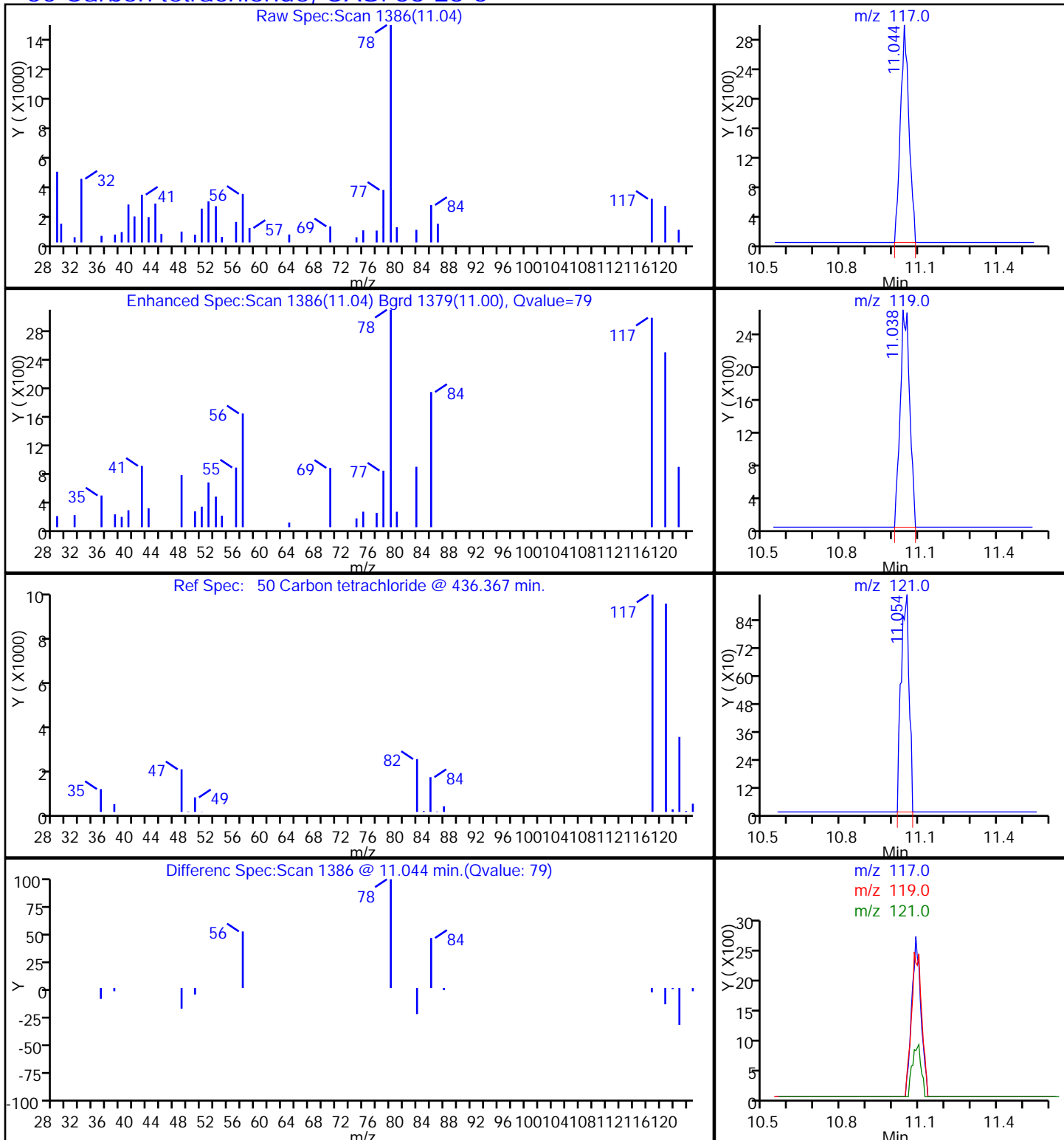
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

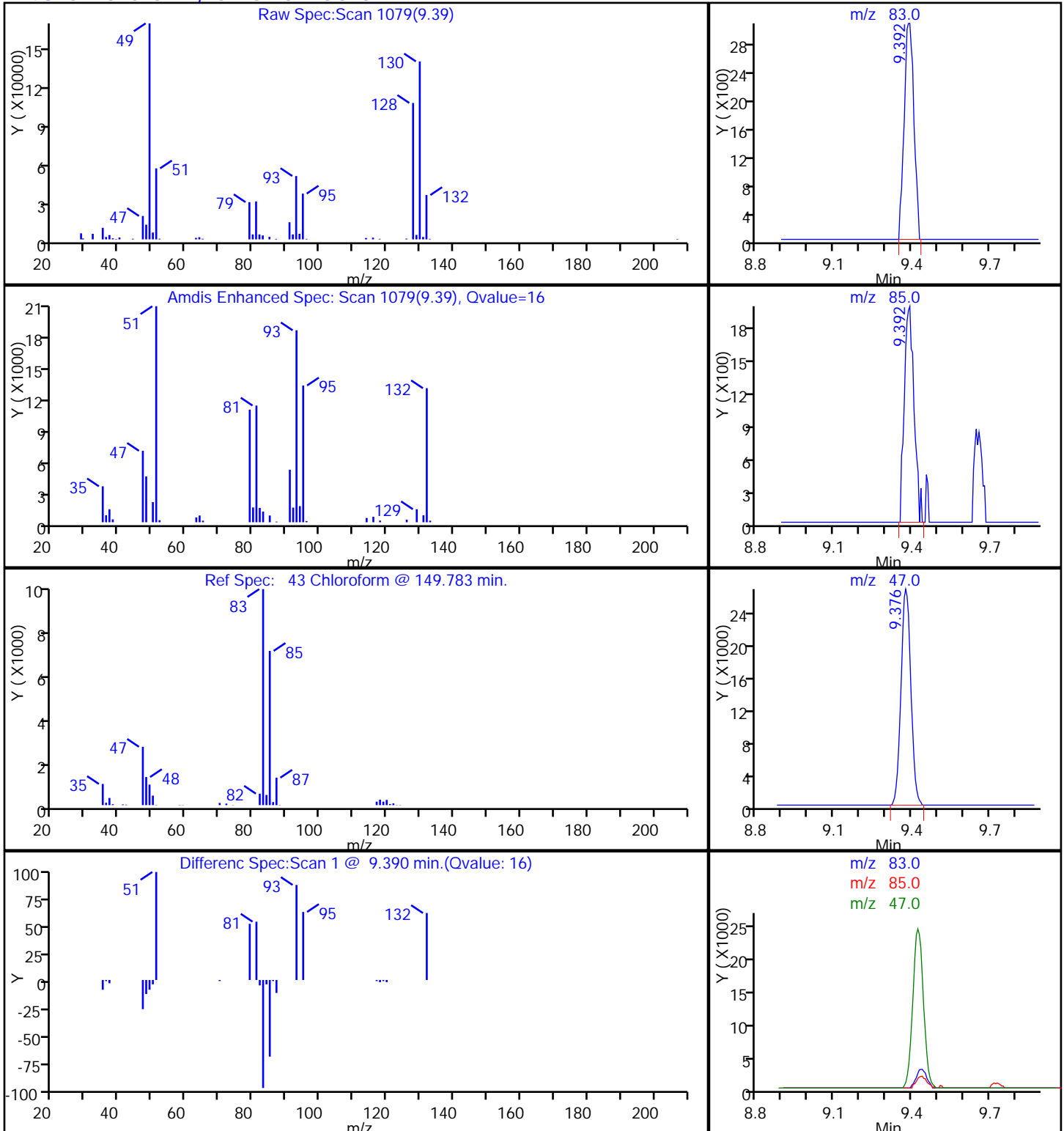
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

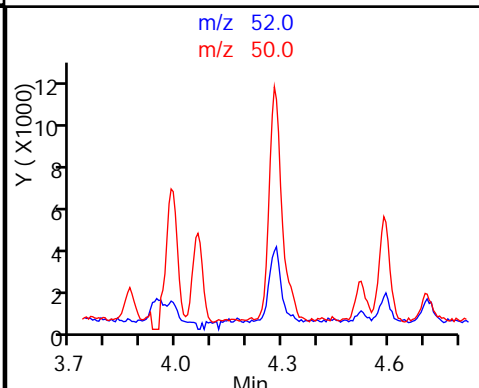
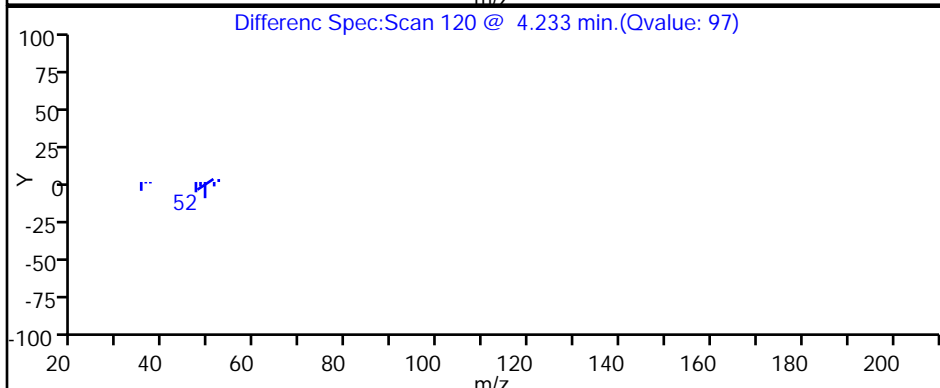
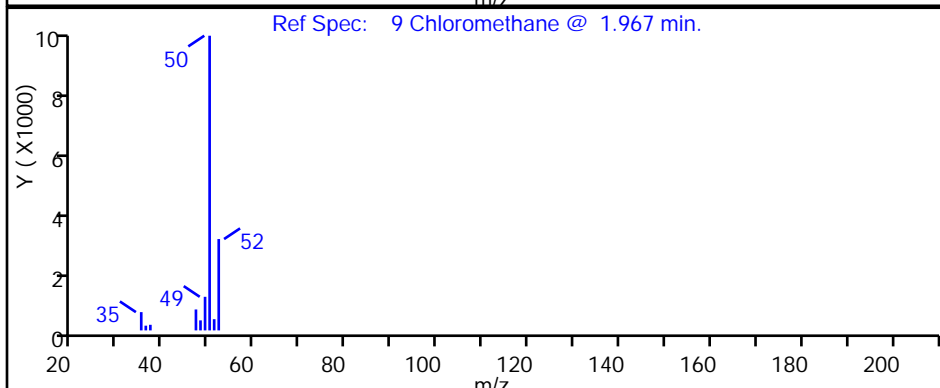
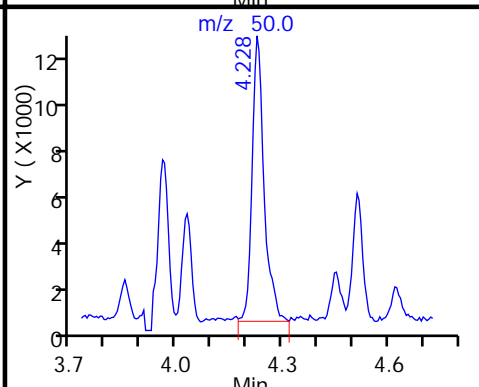
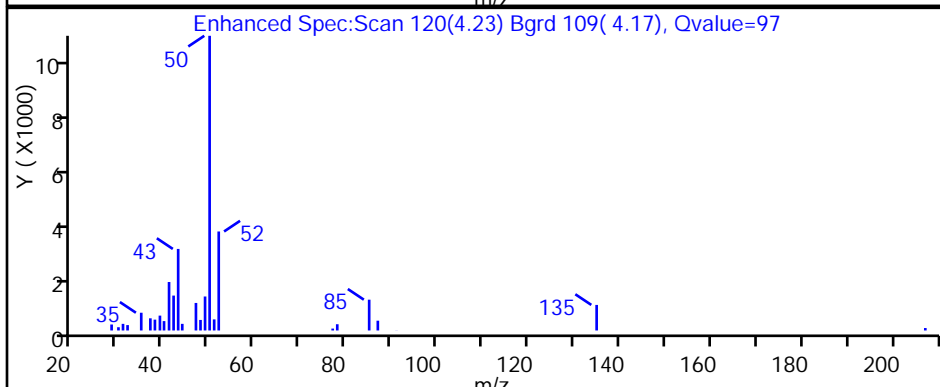
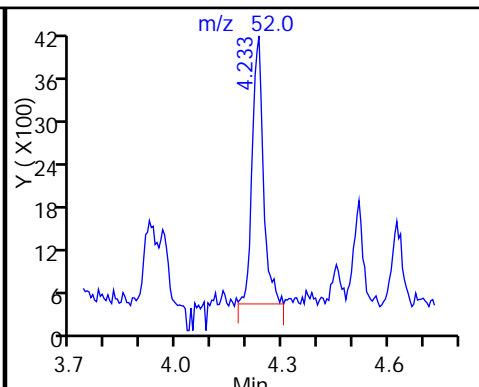
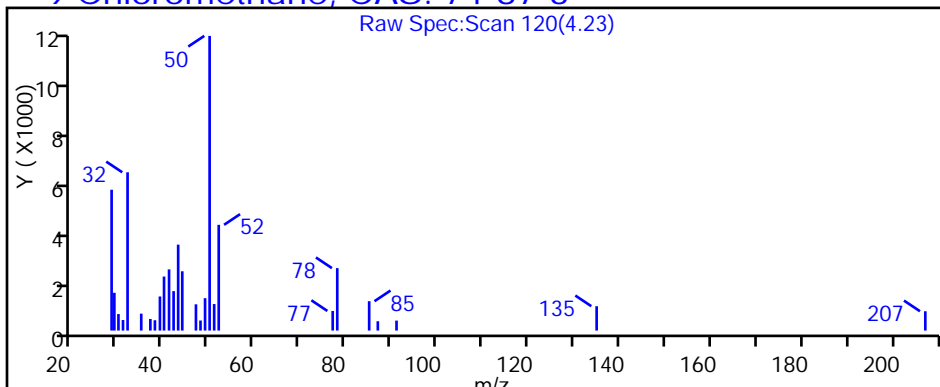
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

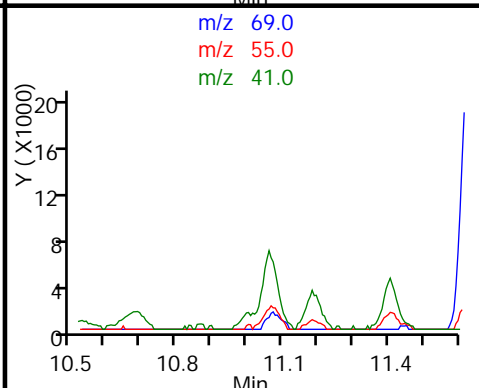
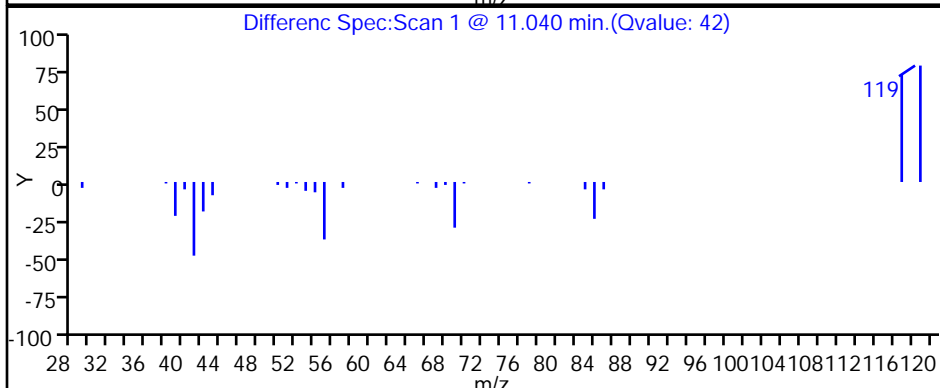
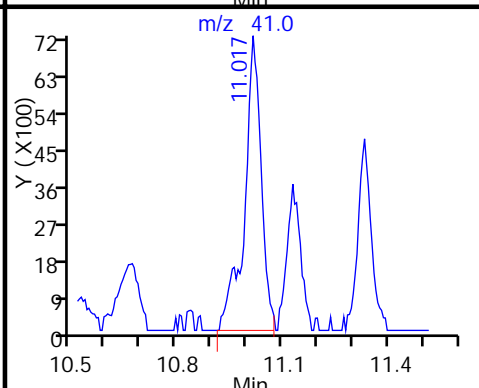
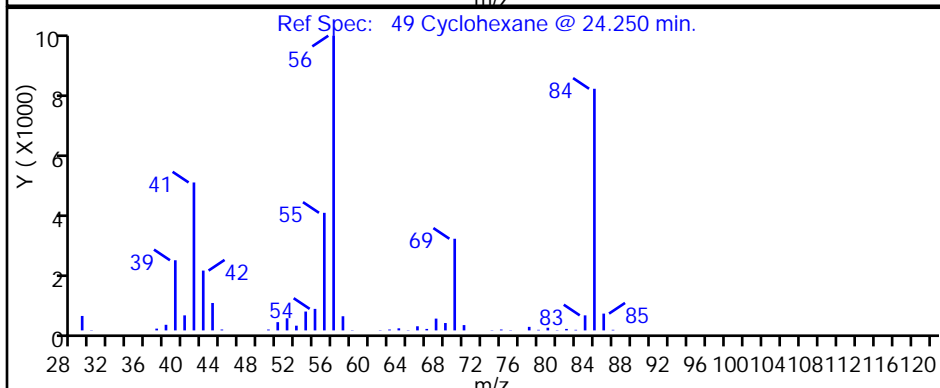
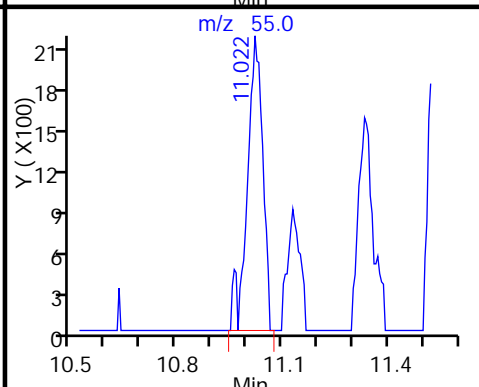
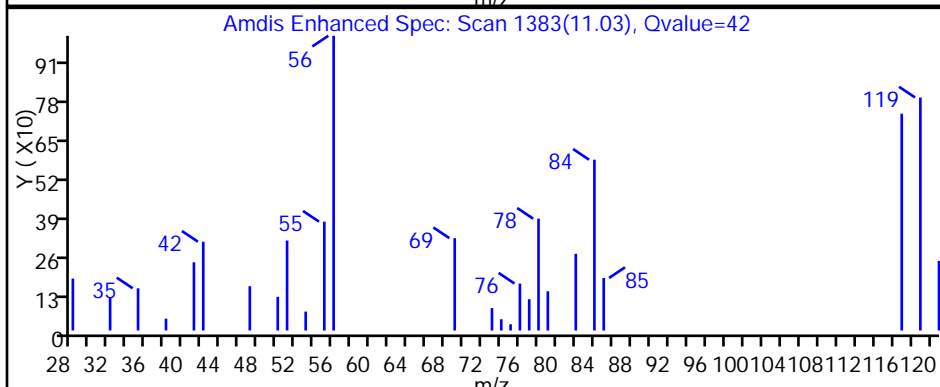
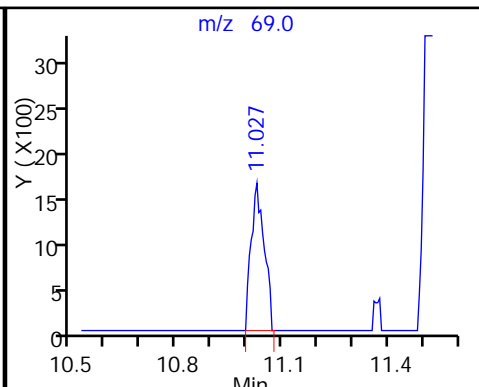
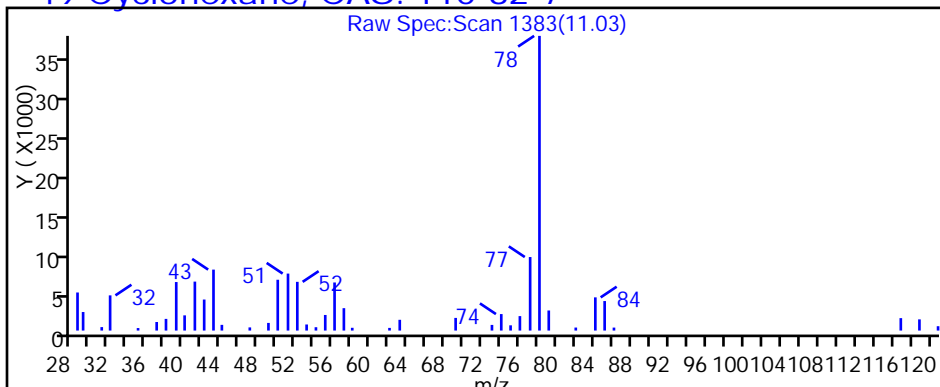
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

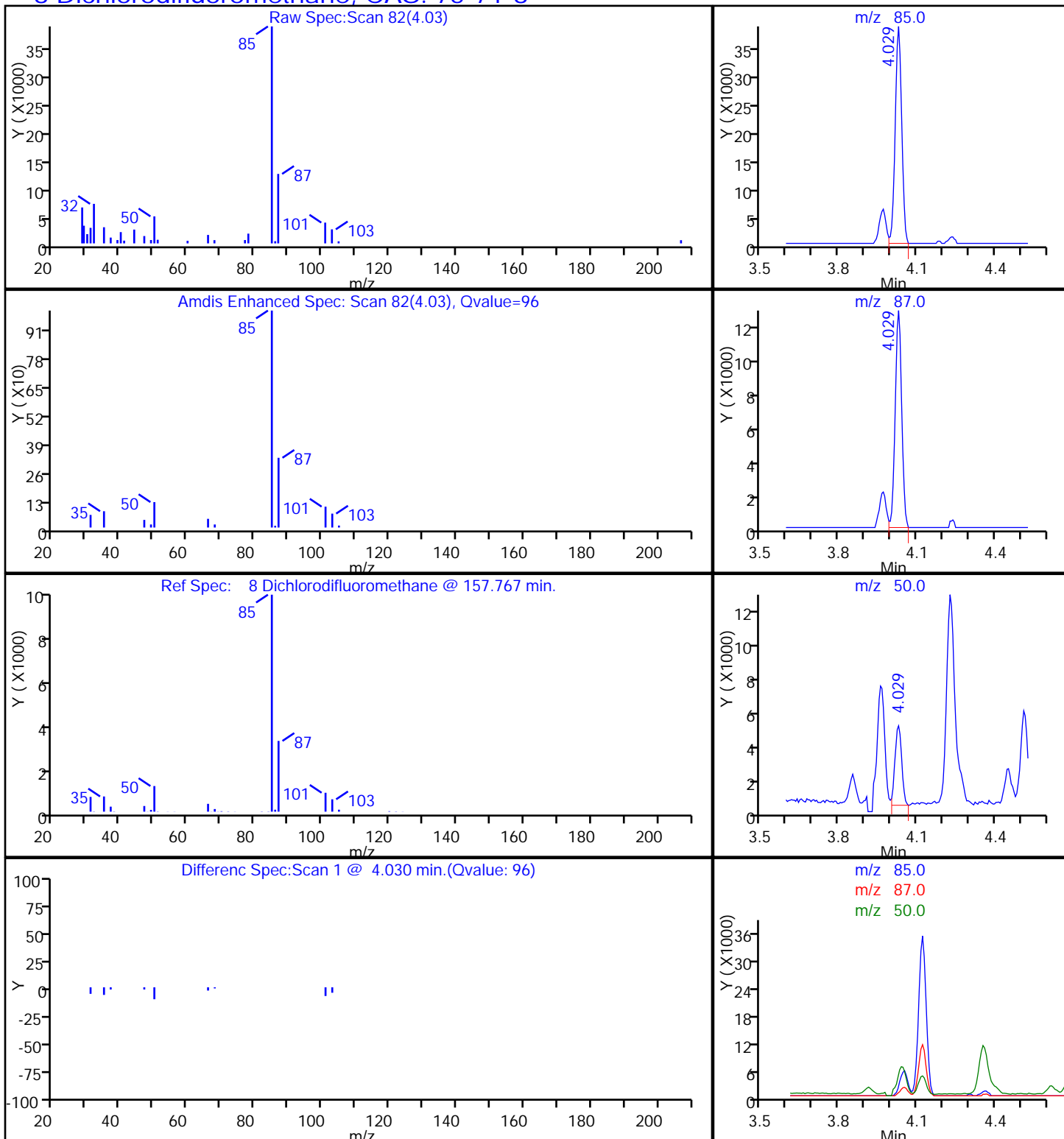
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

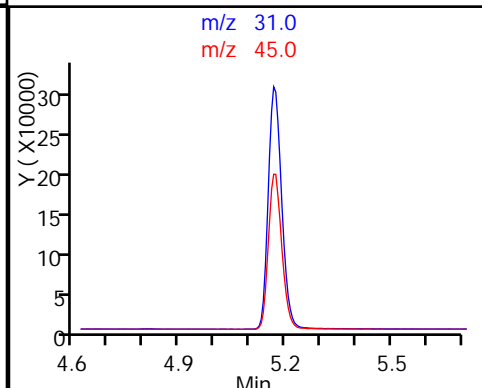
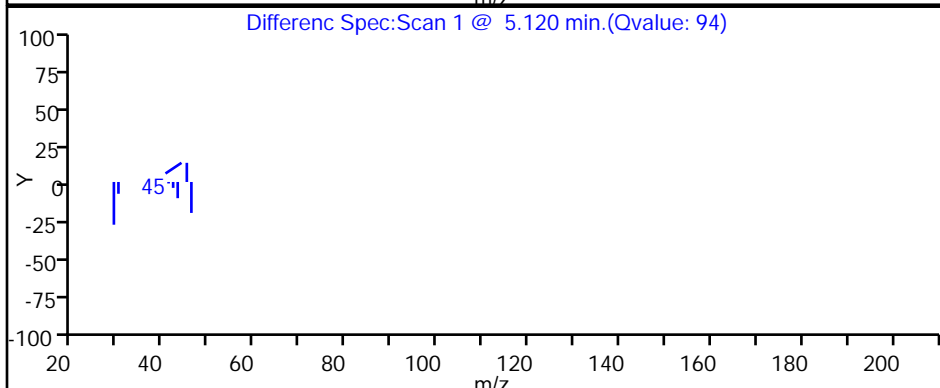
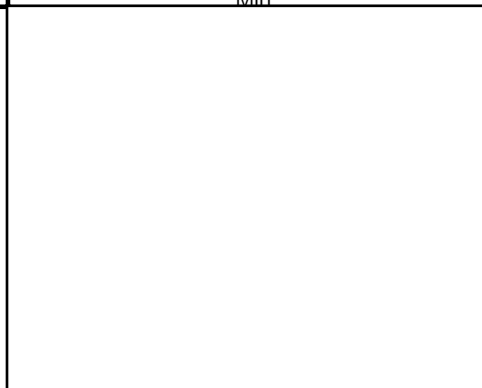
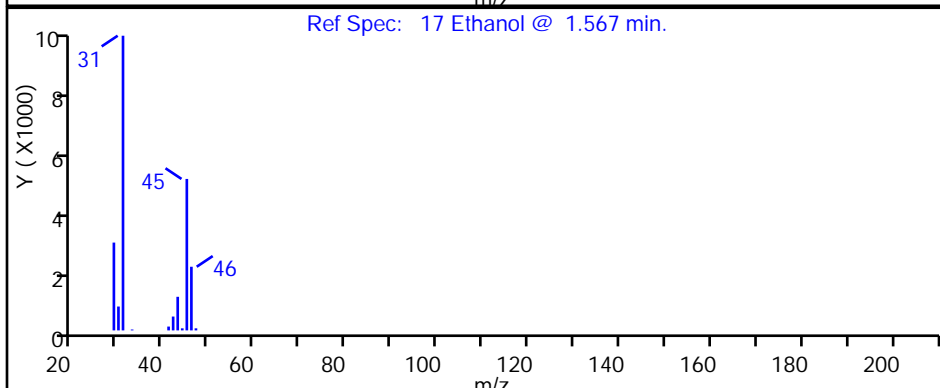
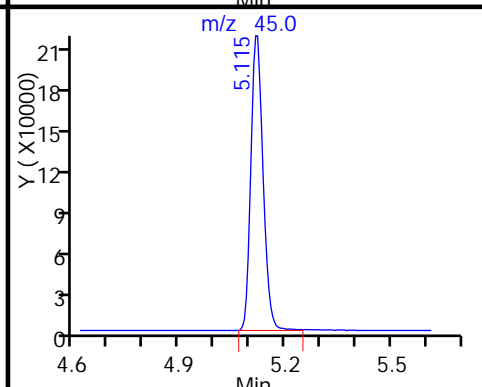
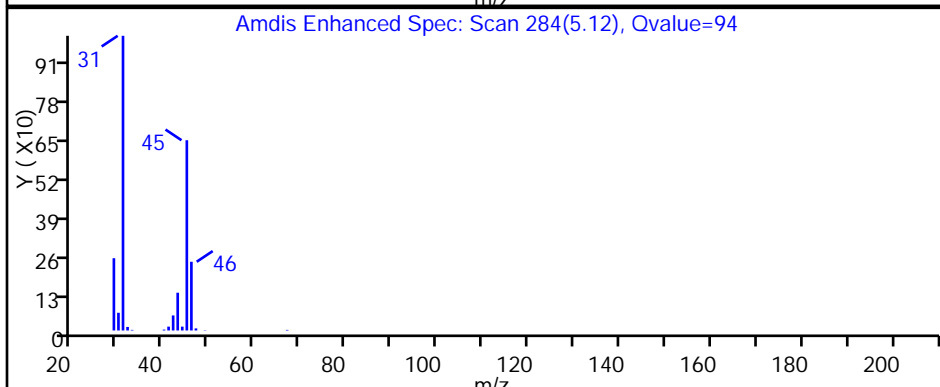
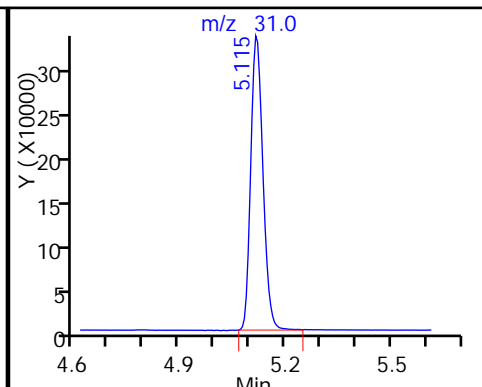
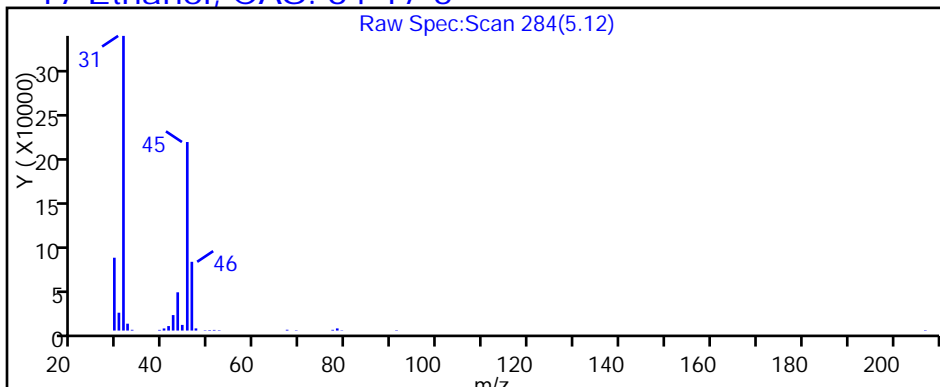
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

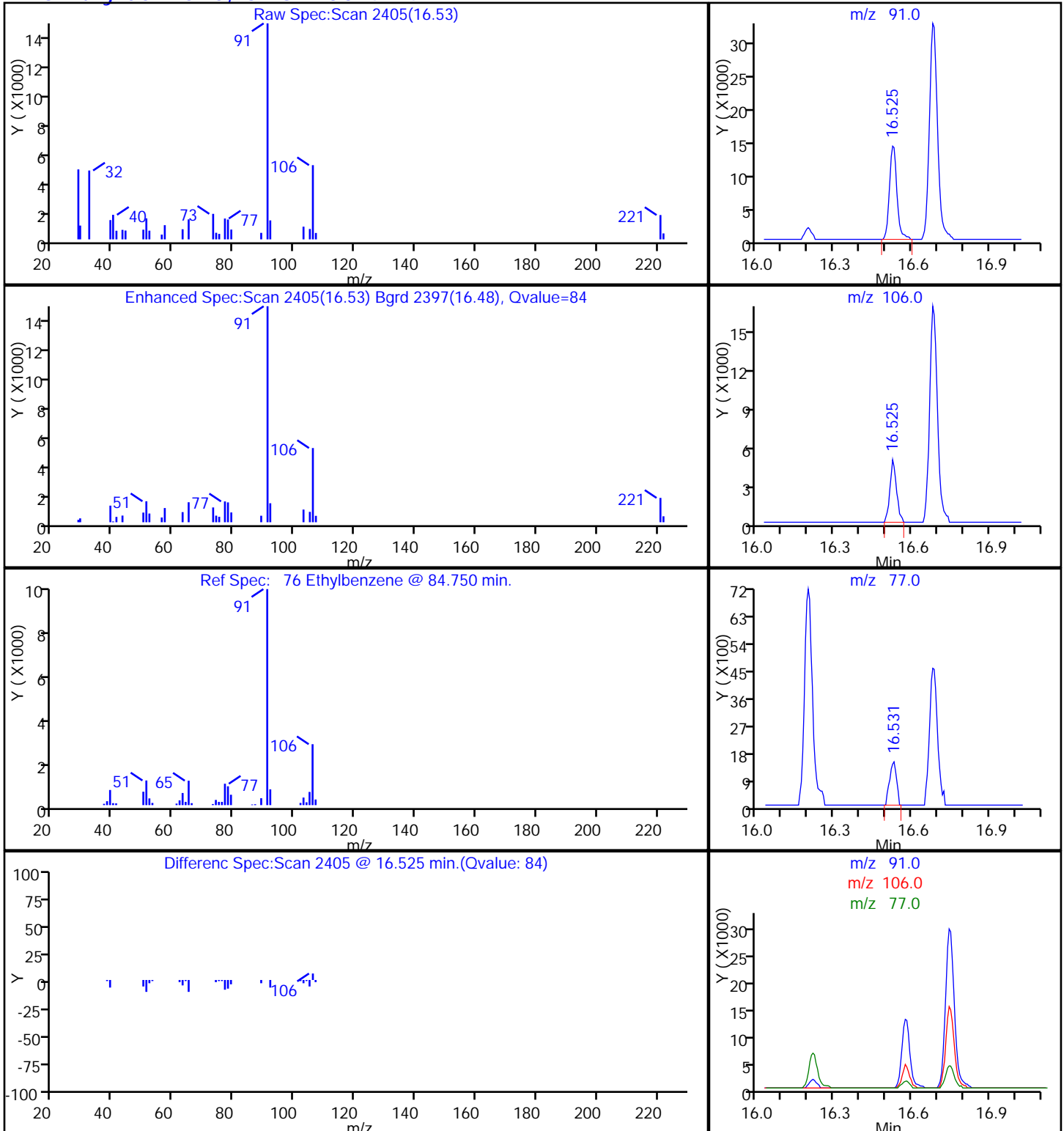
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

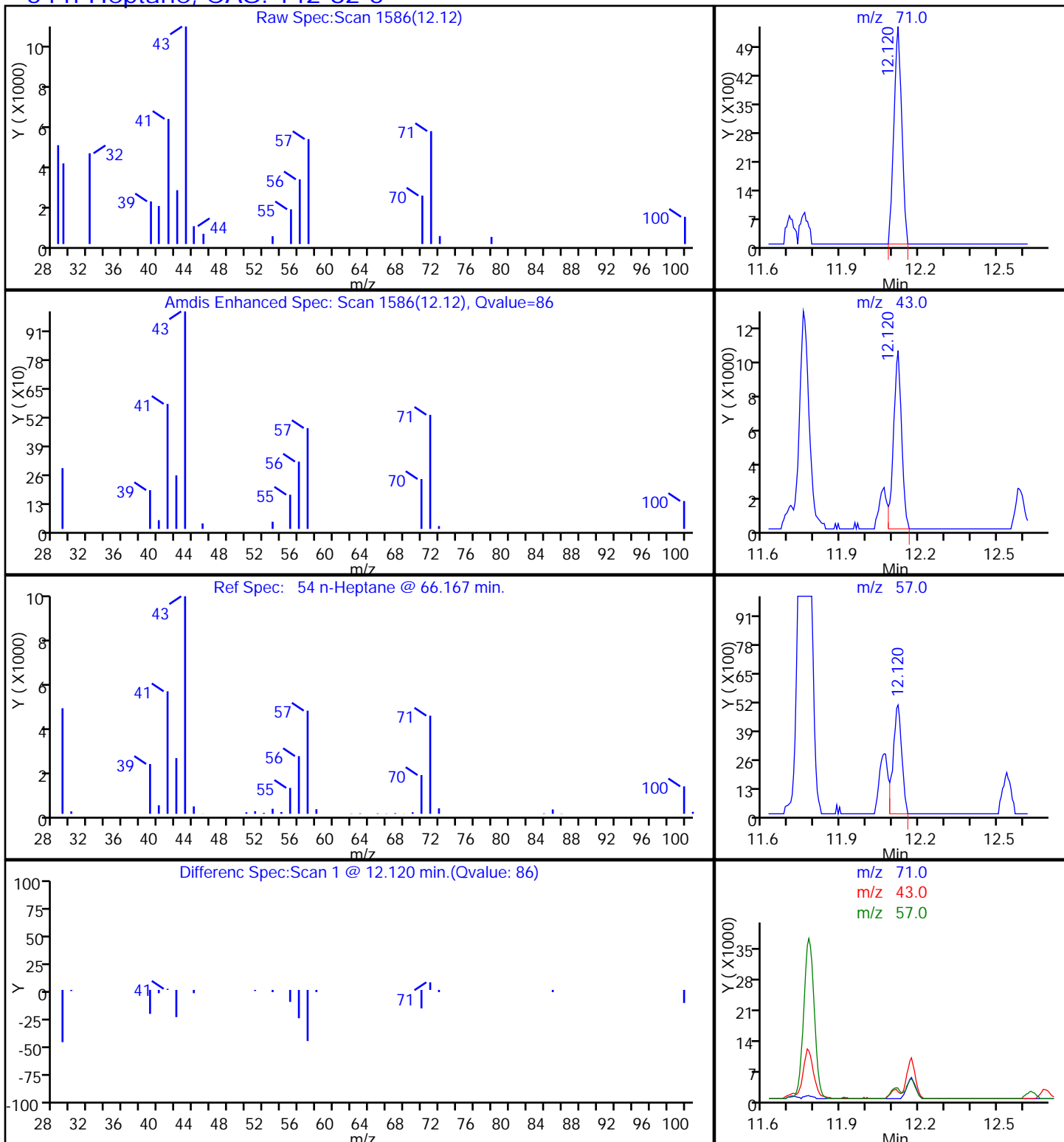
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

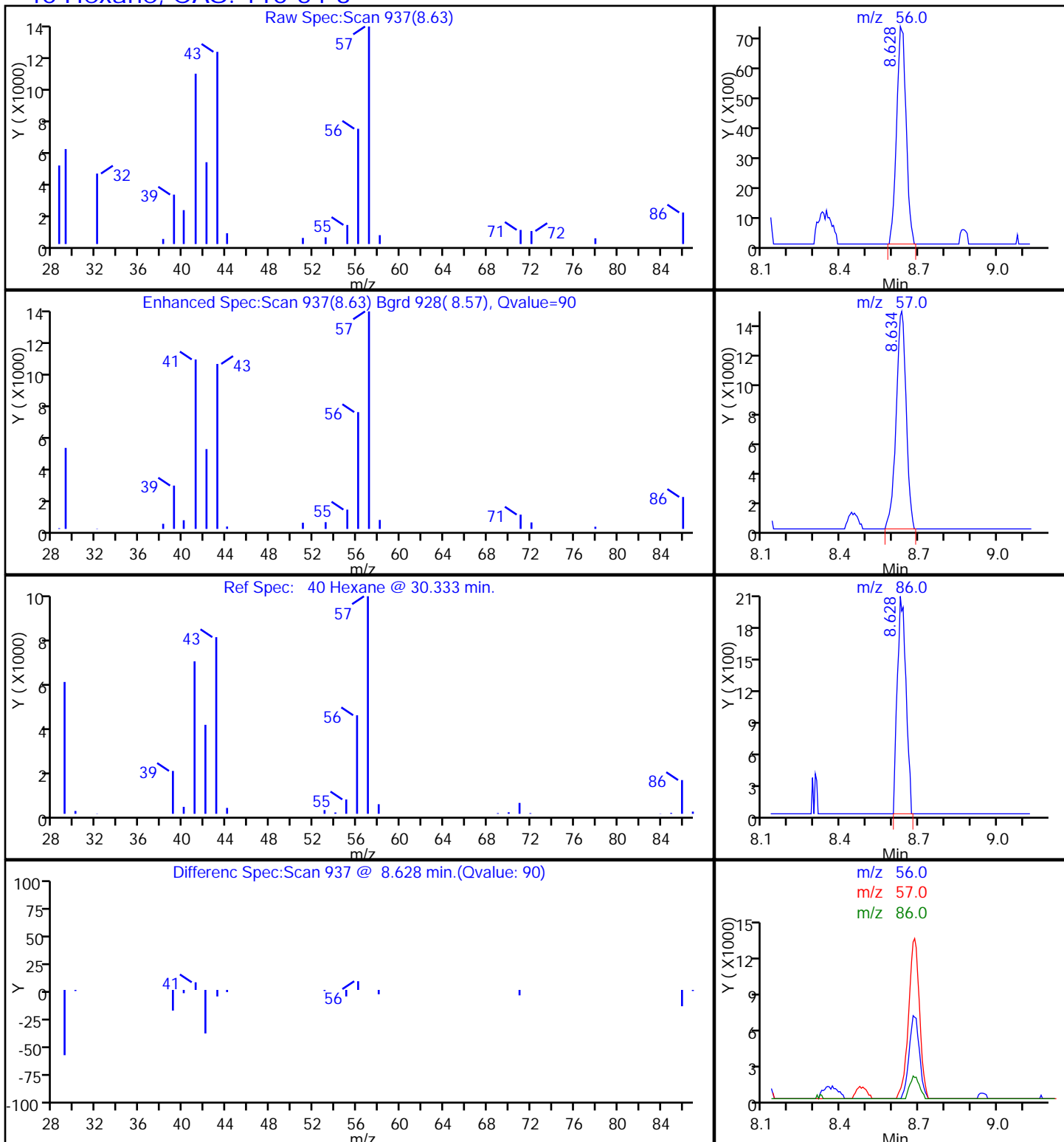
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

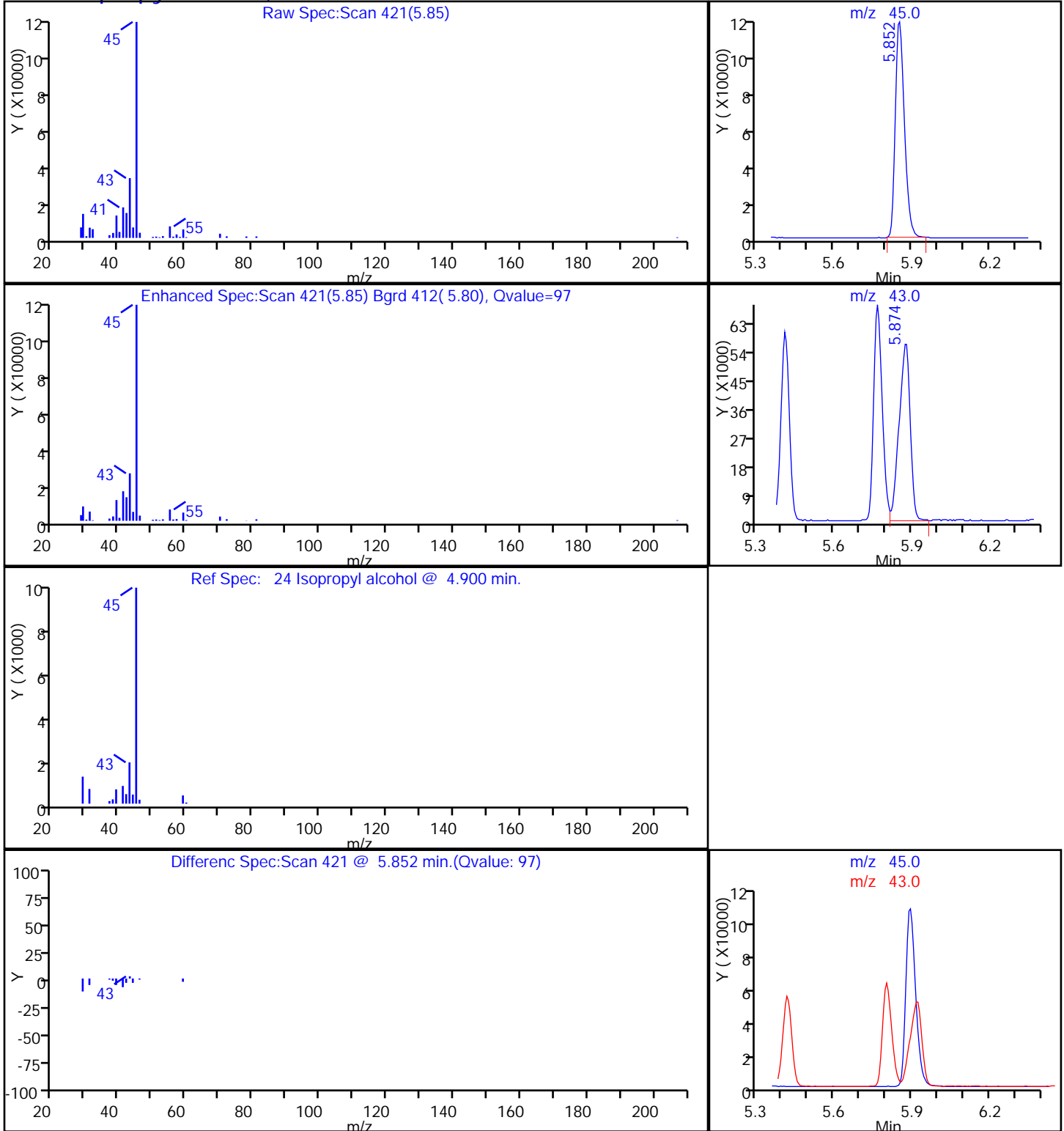
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

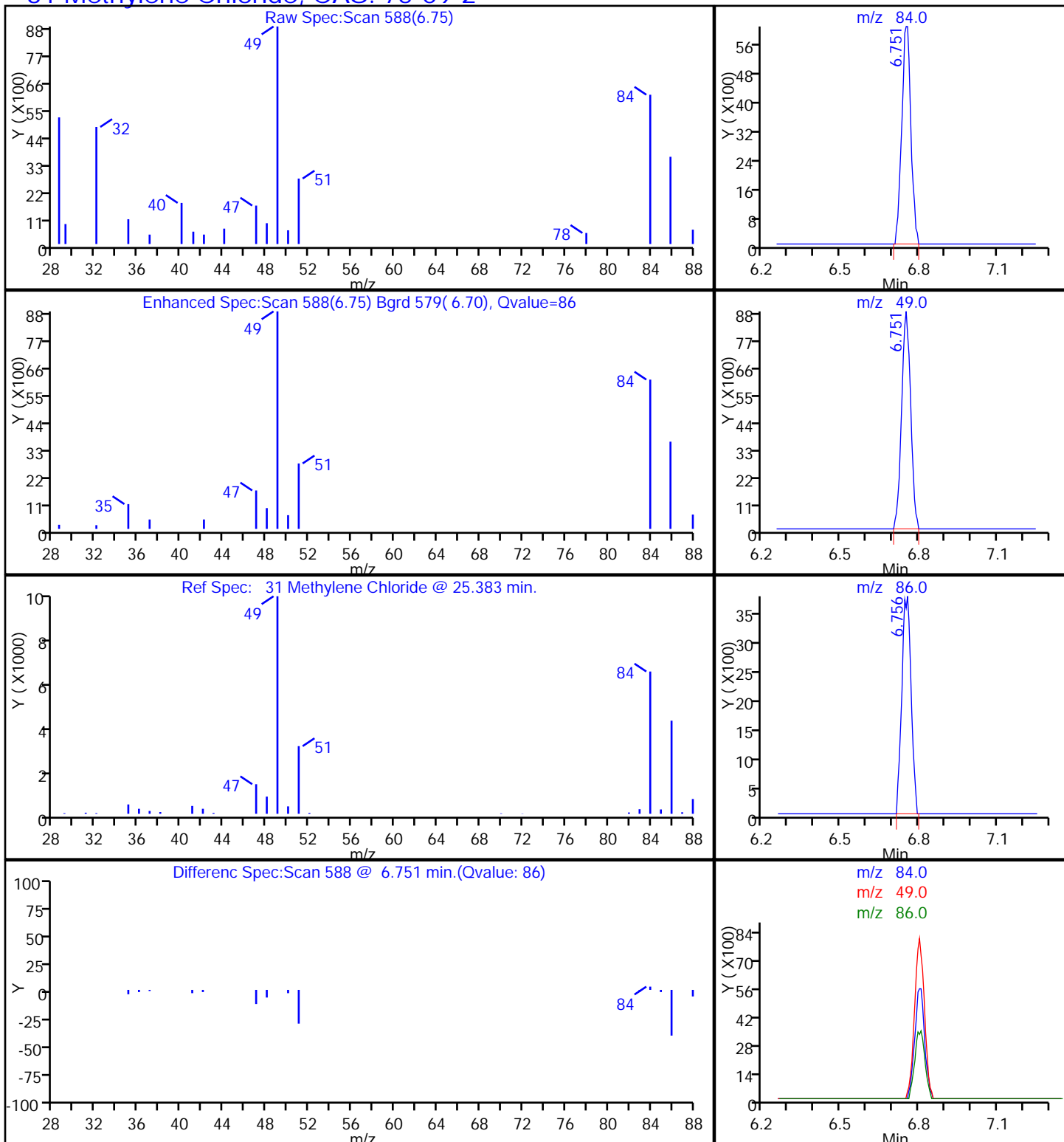
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

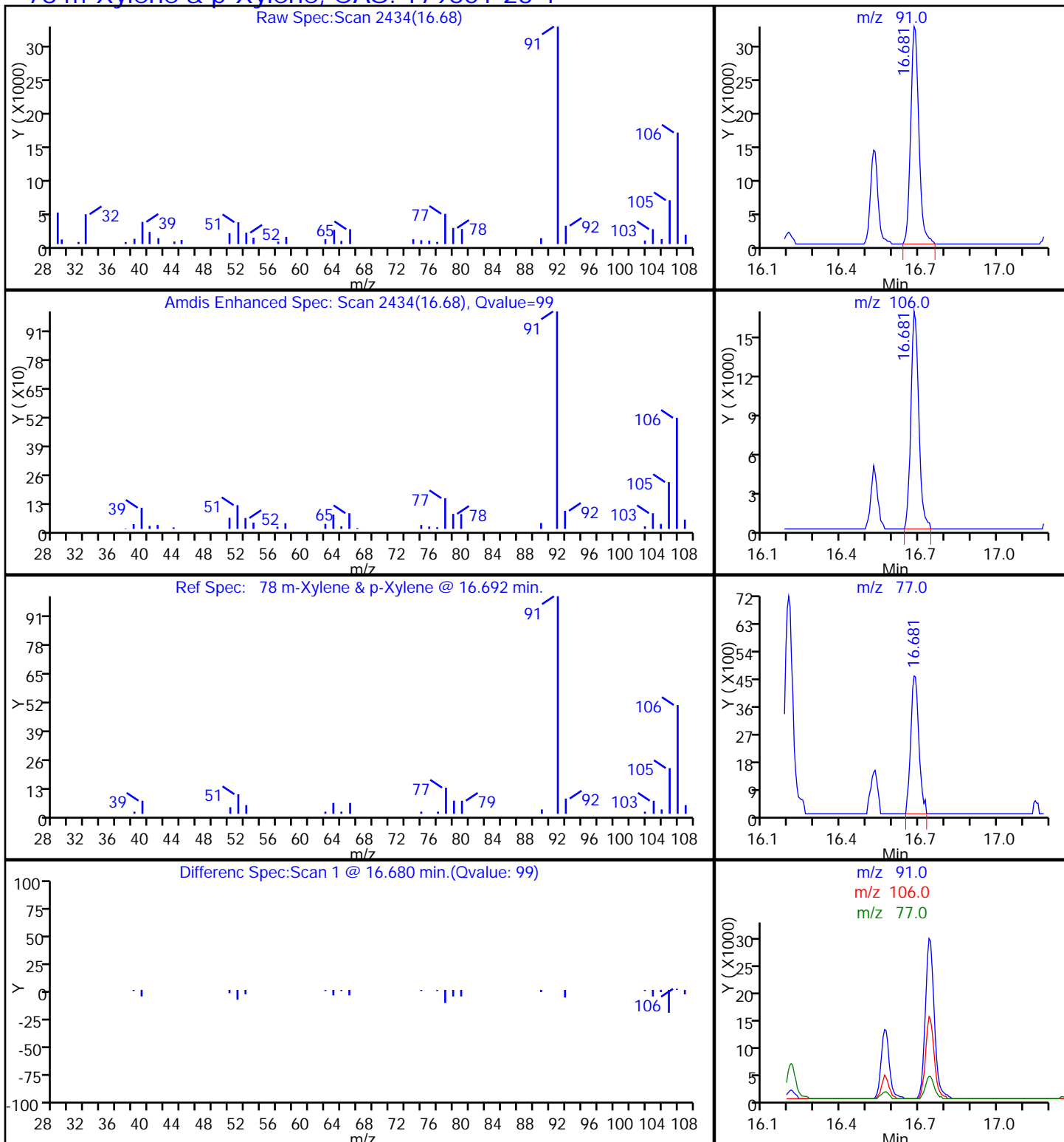
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

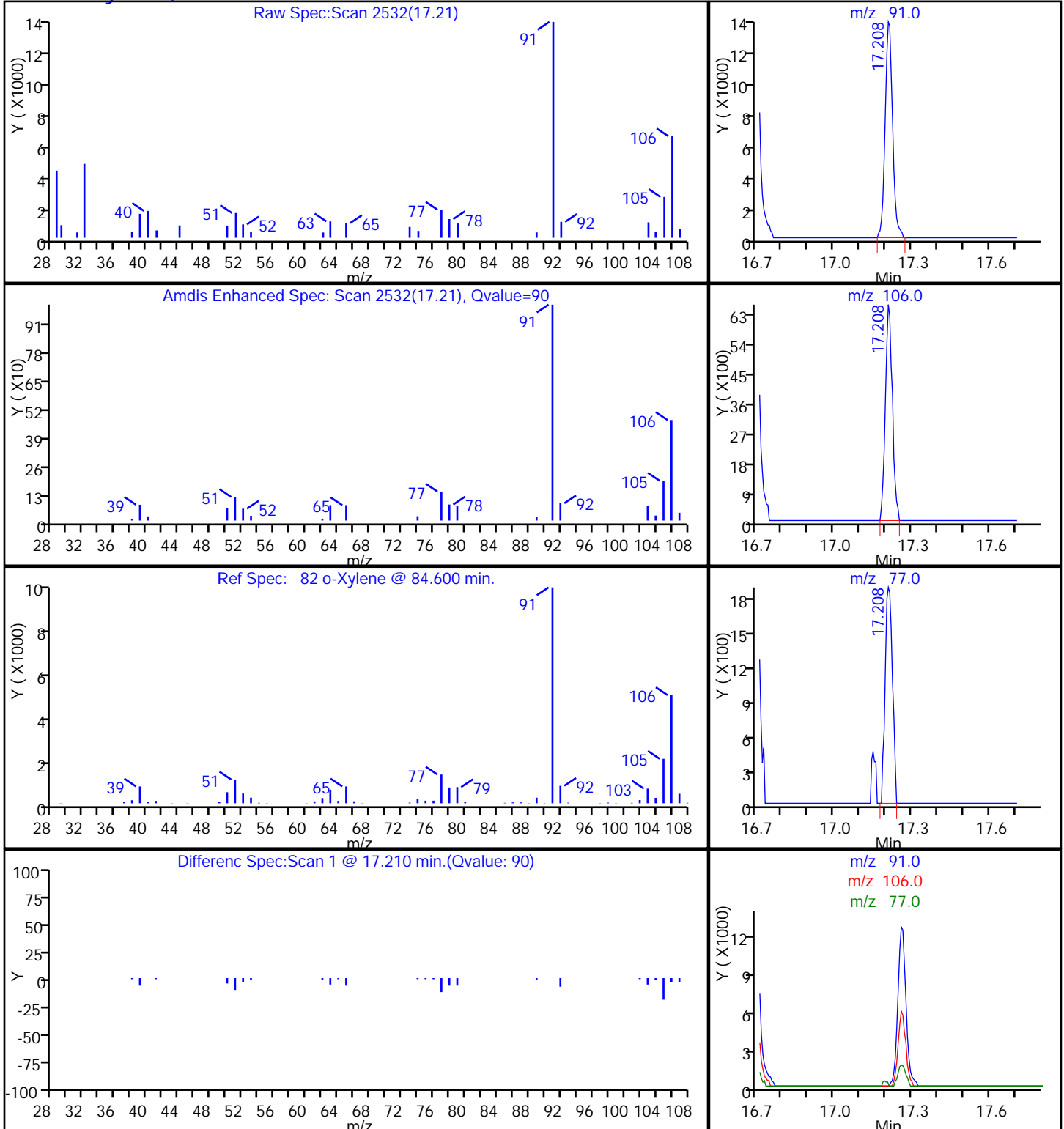
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

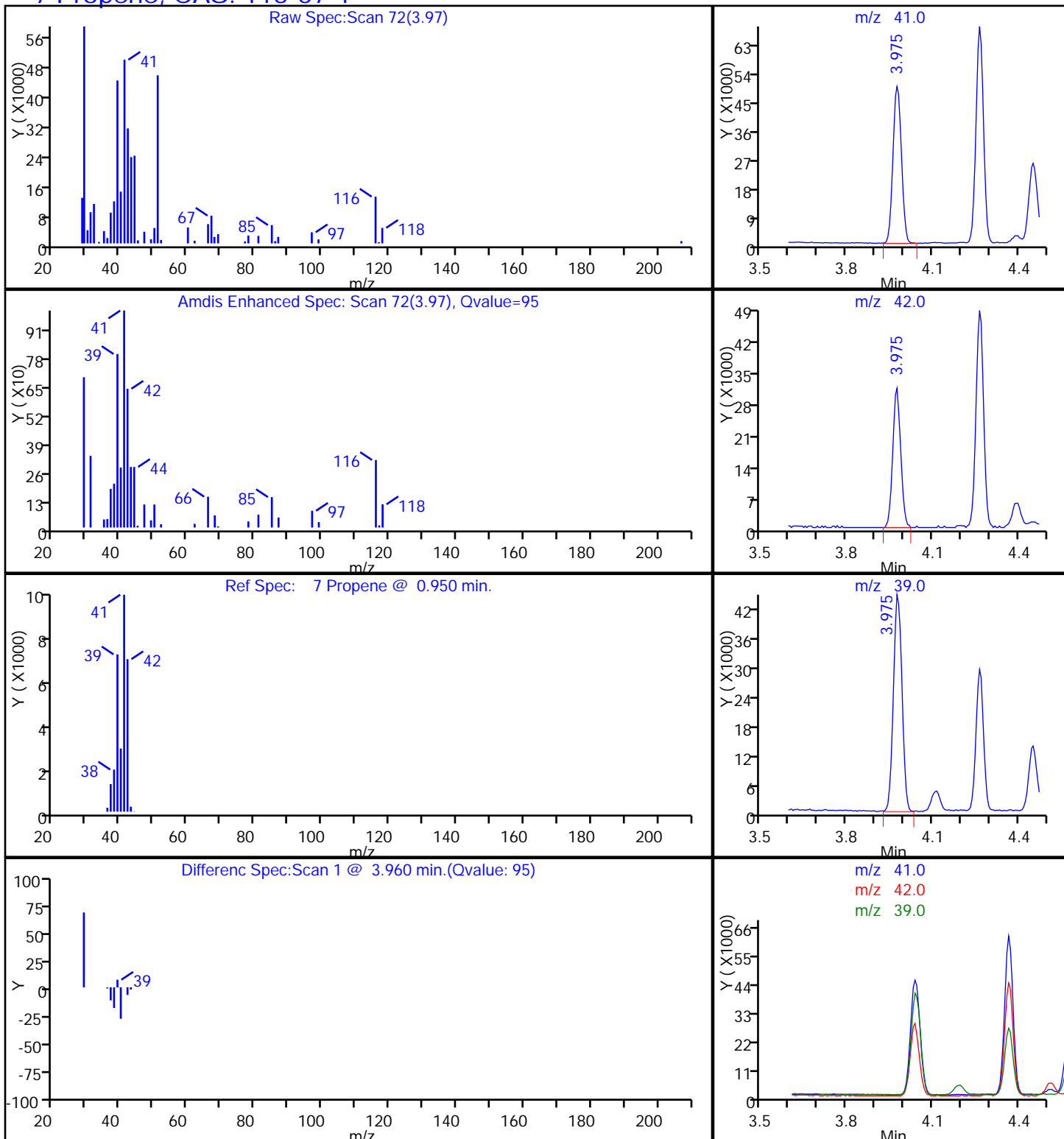
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

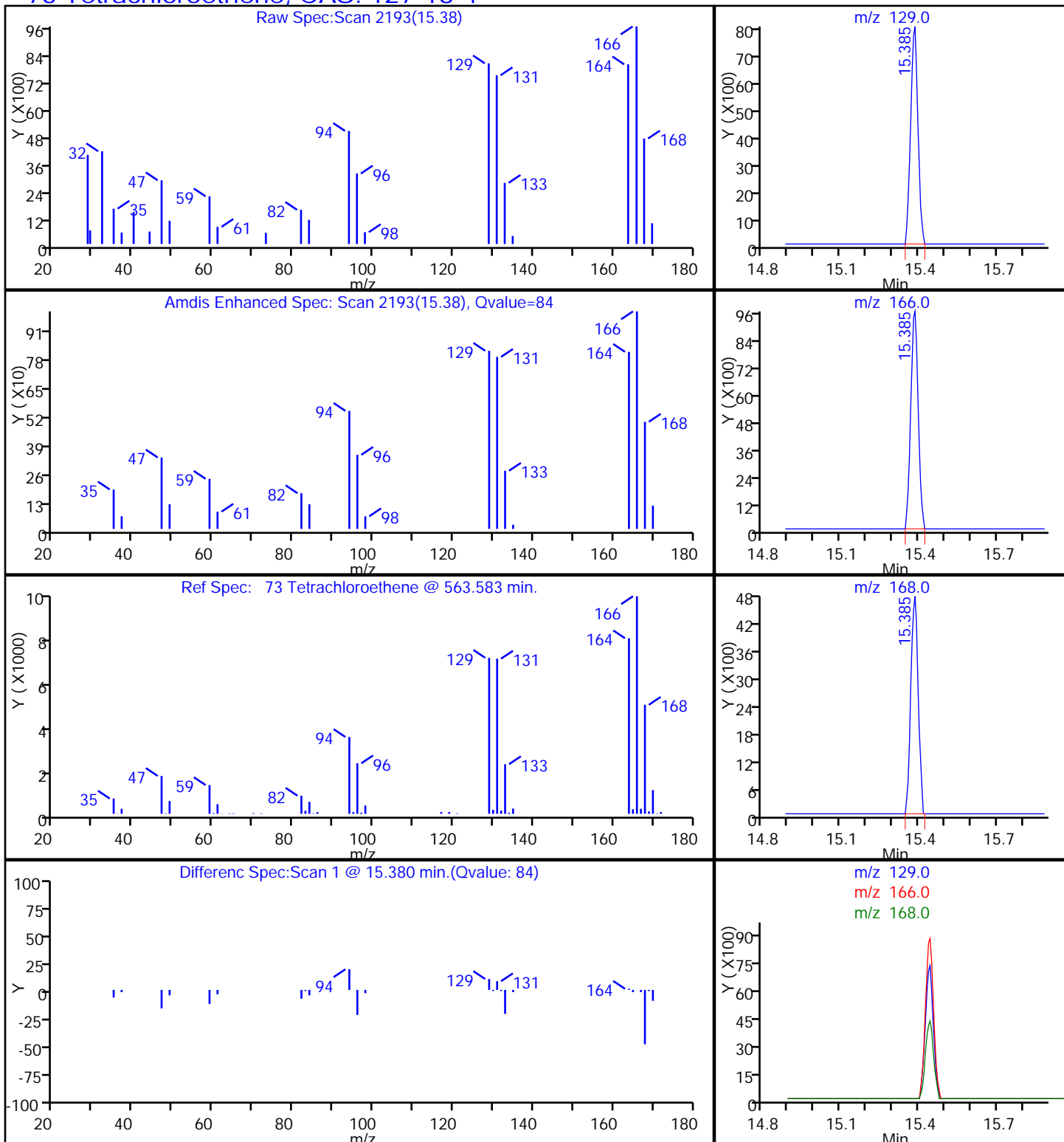
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

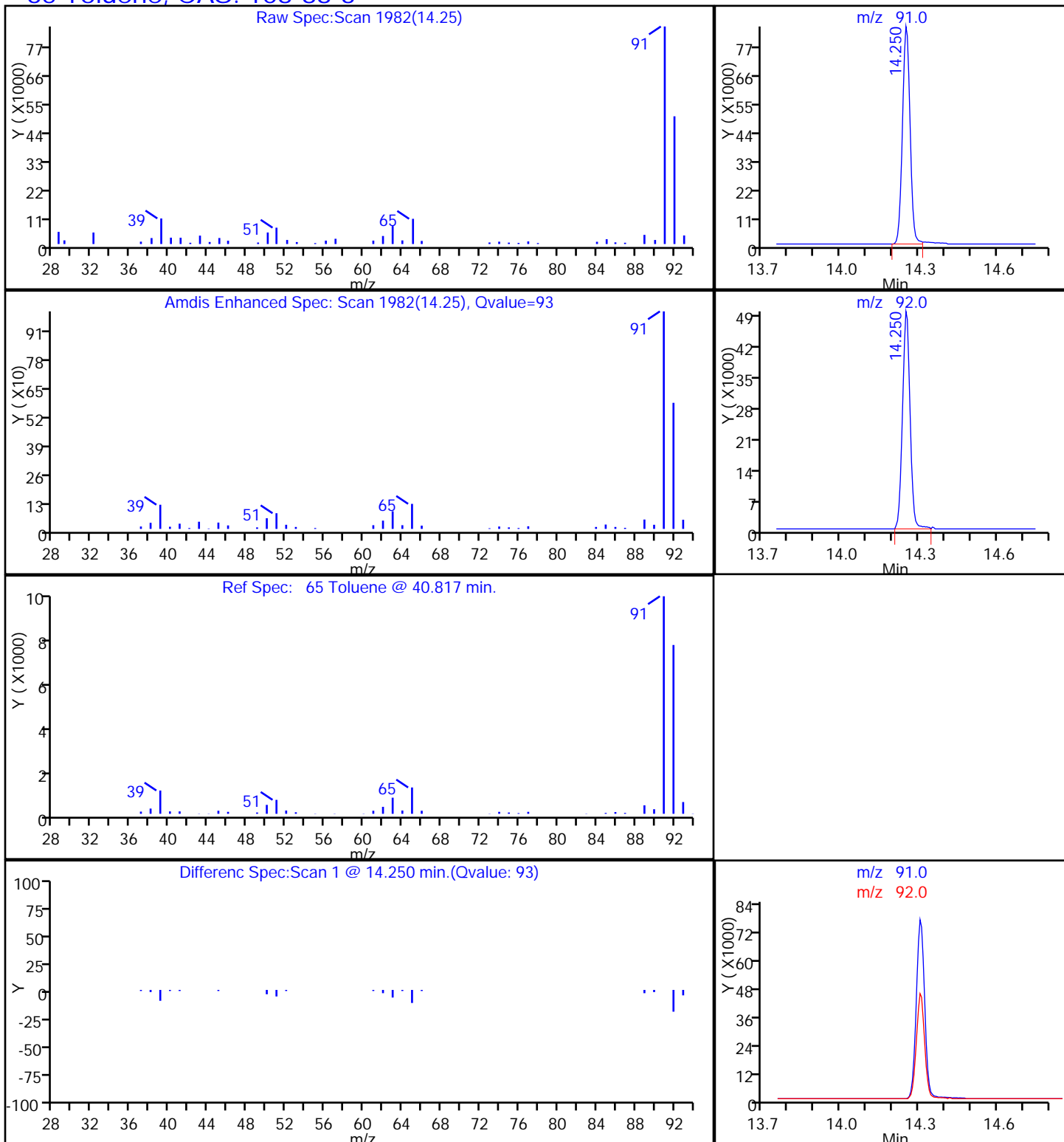
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P215.D

Injection Date: 19-Mar-2014 08:44:30

Instrument ID: MJ

Lims ID: 140-1063-A-13

Lab Sample ID: 140-1063-13

Client ID: IA1-E14

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

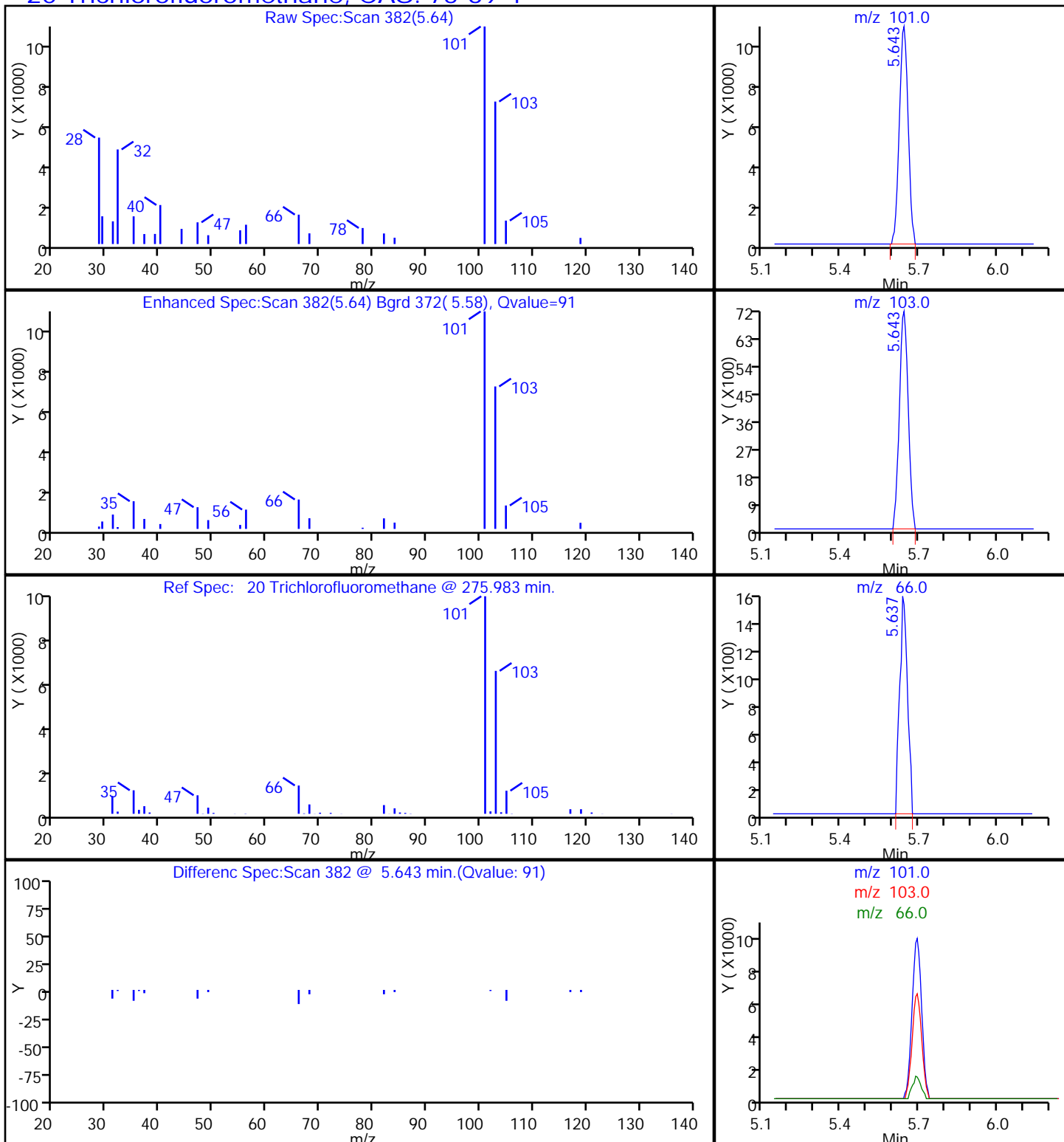
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14
 Matrix: Air Lab File ID: JC18P201.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:53
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.072	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.062	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.24	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.37	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.29	J	0.50	0.045
67-64-1	Acetone	58.08	2.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14
 Matrix: Air Lab File ID: JC18P201.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:53
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.070	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.052	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.51		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	53		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.078	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.17	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	1.2	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.37	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.17	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.070	J	0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.53		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.50		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14
 Matrix: Air Lab File ID: JC18P201.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:53
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14
 Matrix: Air Lab File ID: JC18P201.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:53
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.55	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.29	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.70	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.1	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	J	2.0	0.18
67-64-1	Acetone	58.08	5.8	J	12	3.3
71-43-2	Benzene	78.11	0.78		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14
 Matrix: Air Lab File ID: JC18P201.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:53
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.25	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	100		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.32	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.61	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	3.0	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.75	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.30	J	0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	3.6		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E14 Lab Sample ID: 140-1063-14
 Matrix: Air Lab File ID: JC18P201.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:53
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D
 Lims ID: 140-1063-A-14 Lab Sample ID: 140-1063-14
 Client ID: IA2-E14
 Sample Type: Client
 Inject. Date: 18-Mar-2014 19:12:30 ALS Bottle#: 1 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-14
 Misc. Info.: J031814,TO15,,140-0000527-022
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:55:39 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: liul

Date: 20-Mar-2014 14:54:24

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.383	9.388	-0.005	90	356682	4.00	
* 2 1,4-Difluorobenzene	114	11.540	11.539	0.001	94	1658549	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.199	16.198	0.001	86	1401393	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.818	17.817	0.001	91	957721	3.86	
8 Dichlorodifluoromethane	85	4.036	4.030	0.006	96	64535	0.1827	
9 Chloromethane	52	4.235	4.229	0.006	97	8188	0.2040	
17 Ethanol	31	5.128	5.116	0.012	95	609169	21.3	
19 2-Methylbutane	43	5.418	5.407	0.011	88	22679	0.1497	
20 Trichlorofluoromethane	101	5.650	5.644	0.006	85	26009	0.0838	
23 Acetone	58	5.779	5.767	0.012	91	49426	0.9748	
24 Isopropyl alcohol	45	5.870	5.848	0.022	95	64798	0.4840	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.591	6.580	0.011	63	6181	0.0287	
31 Methylene Chloride	84	6.758	6.757	0.001	85	13992	0.1466	
39 2-Butanone (MEK)	72	8.603	8.586	0.017	77	3219	0.0953	
40 Hexane	56	8.641	8.635	0.006	88	6606	0.0689	
43 Chloroform	83	9.394	9.393	0.001	3	4331	0.0208	
48 Benzene	78	11.024	11.023	0.001	90	27727	0.0974	
50 Carbon tetrachloride	117	11.056	11.050	0.006	89	6574	0.0280	
53 Isooctane	57	11.761	11.760	0.001	73	11976	0.0246	
54 n-Heptane	71	12.121	12.120	0.001	80	3139	0.0312	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.368	0.012	86	19937	0.1147	
65 Toluene	91	14.252	14.256	-0.004	91	51707	0.1989	
73 Tetrachloroethene	129	15.381	15.386	-0.005	89	25696	0.2122	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	89	16075	0.0694	
82 o-Xylene	91	17.216	17.215	0.001	39	6588	0.0280	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Worklist Smp#: 22

Client ID: IA2-E14

Purge Vol: 500.000 mL

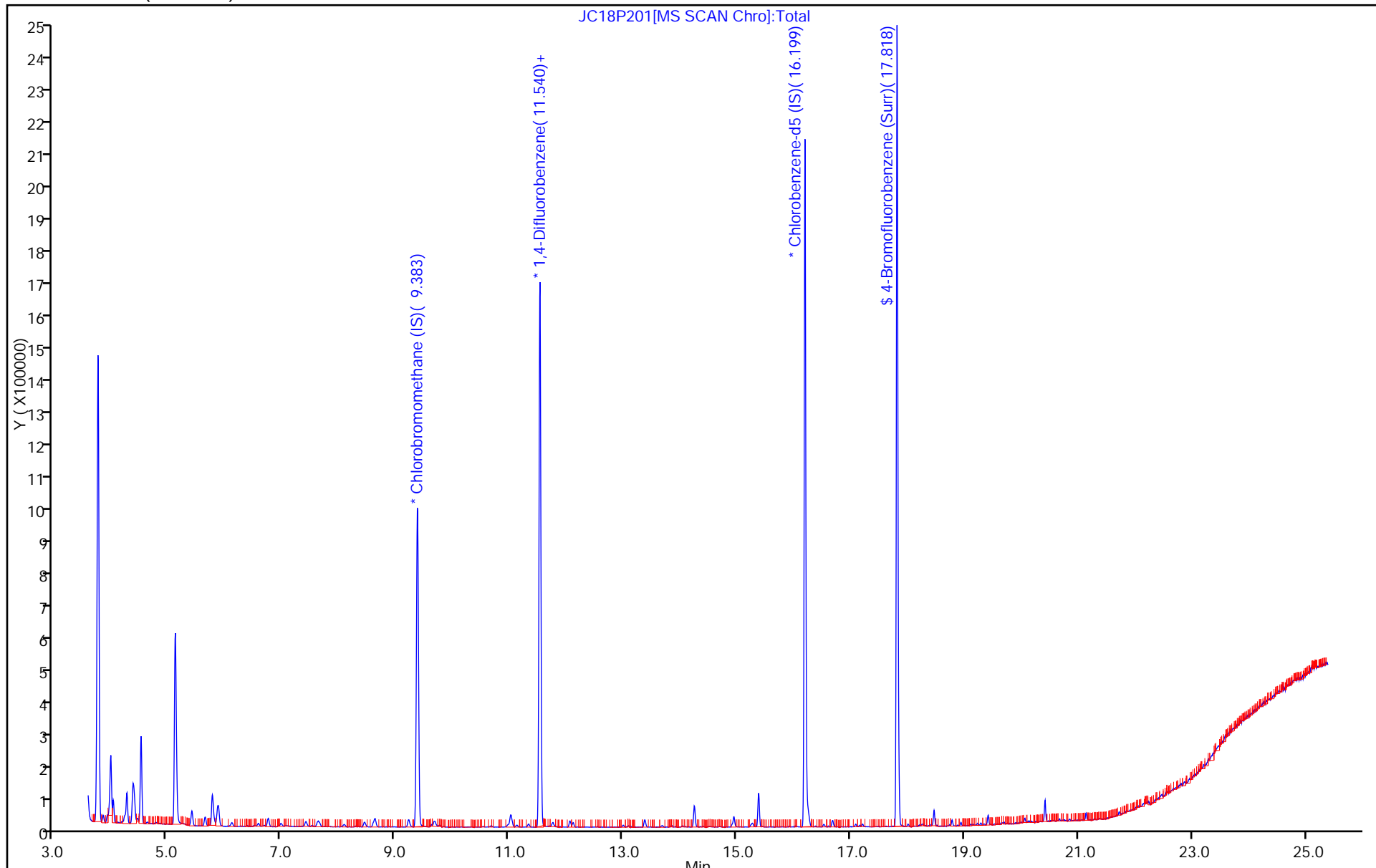
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

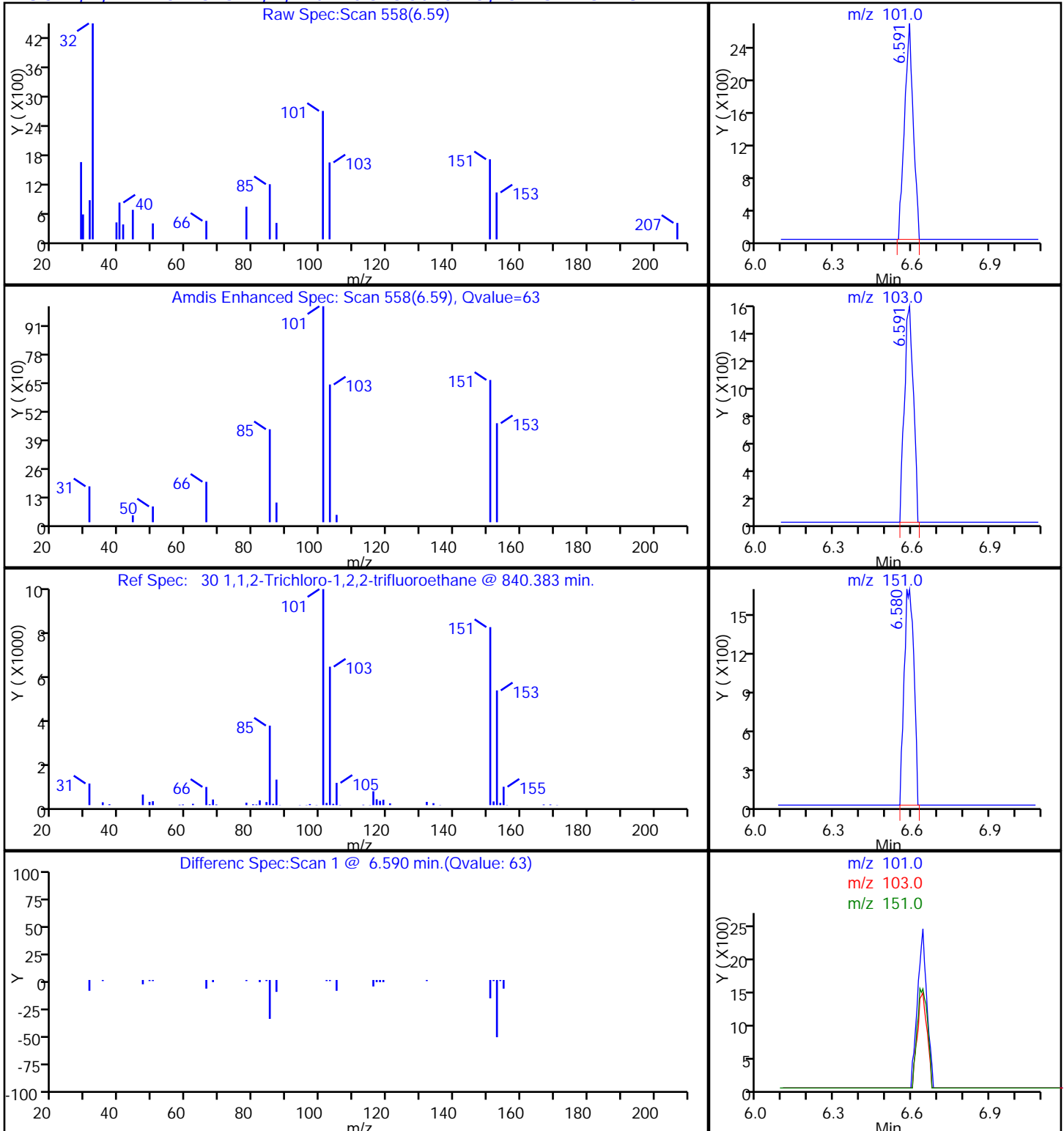
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

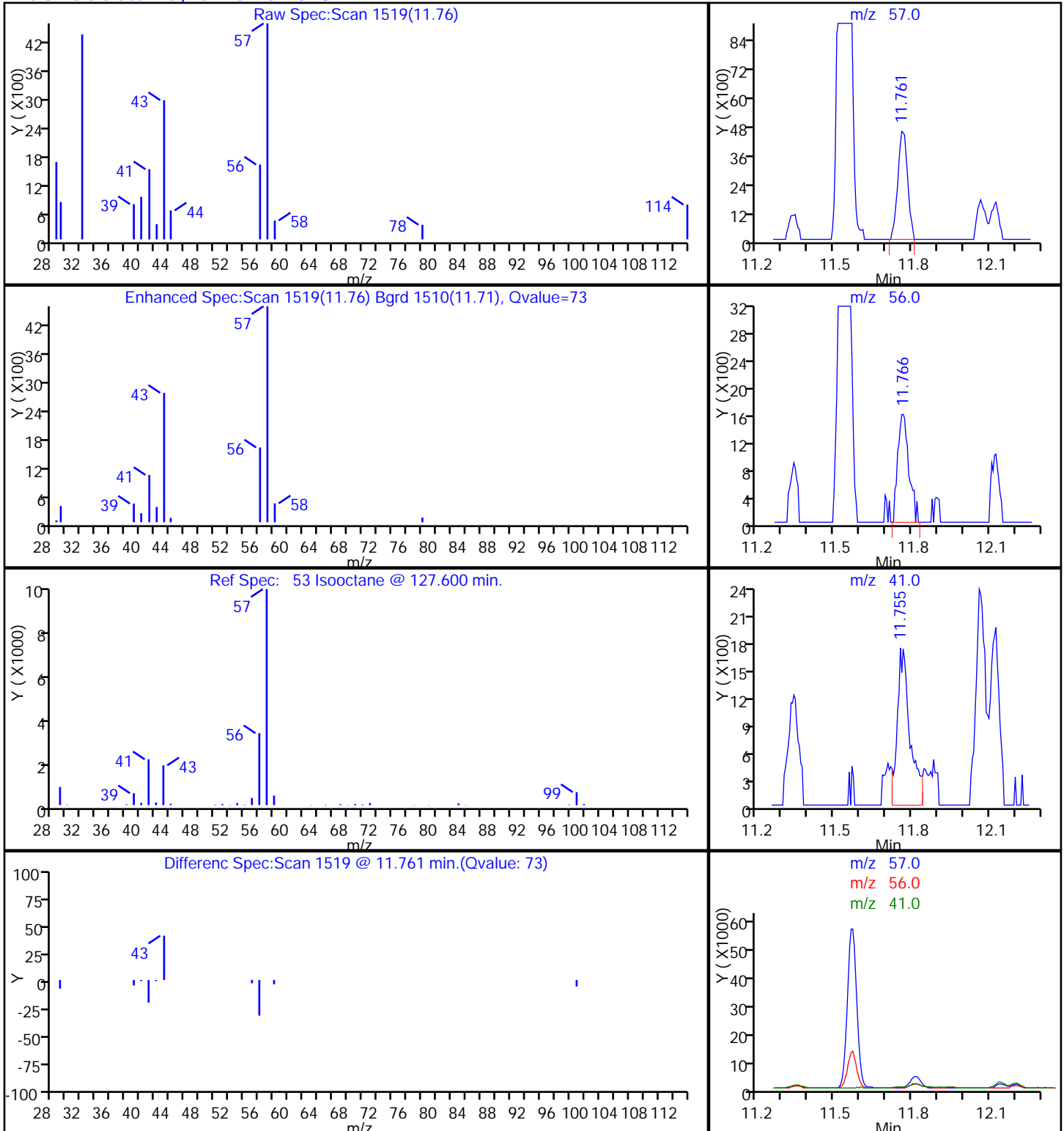
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

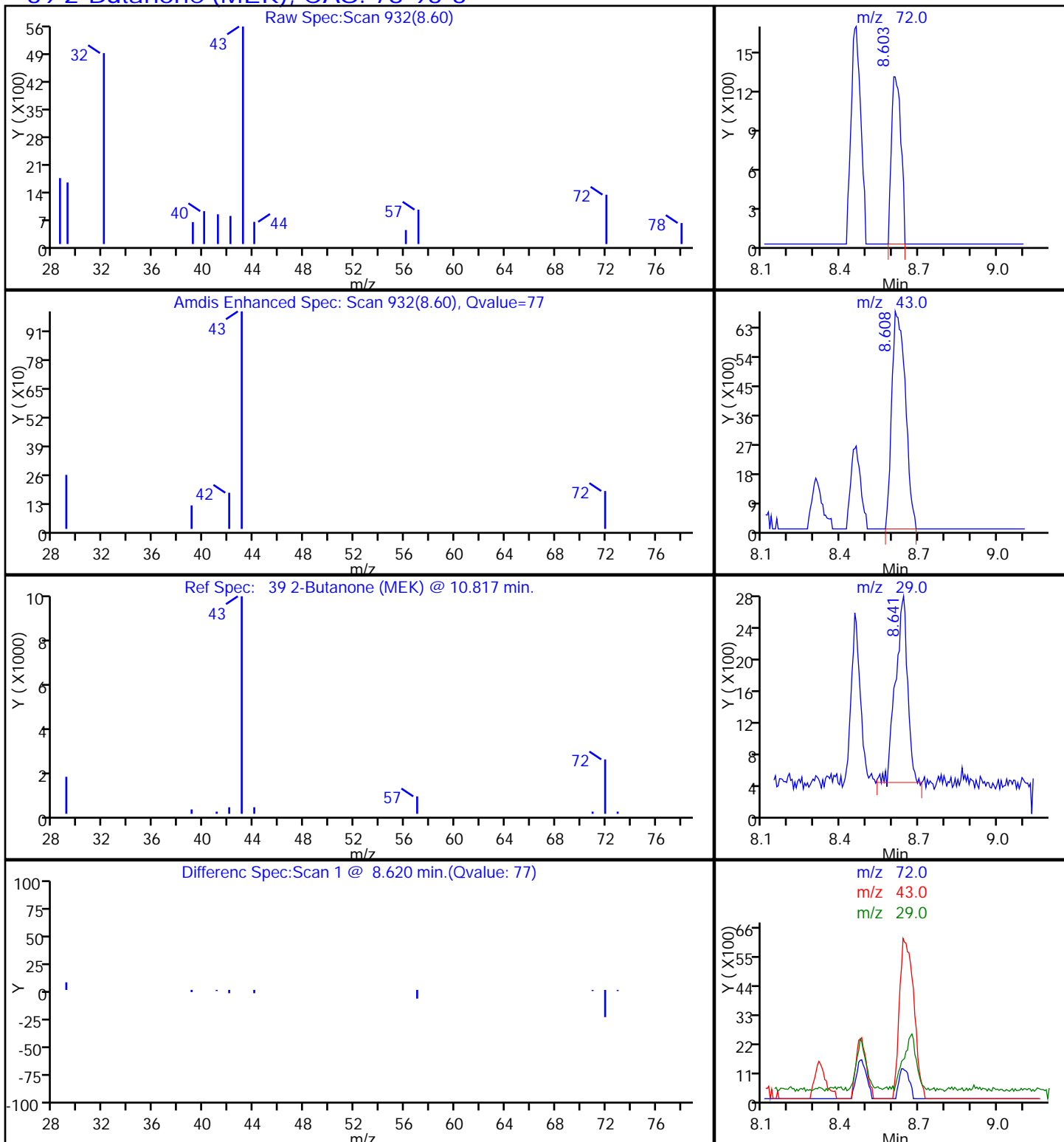
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

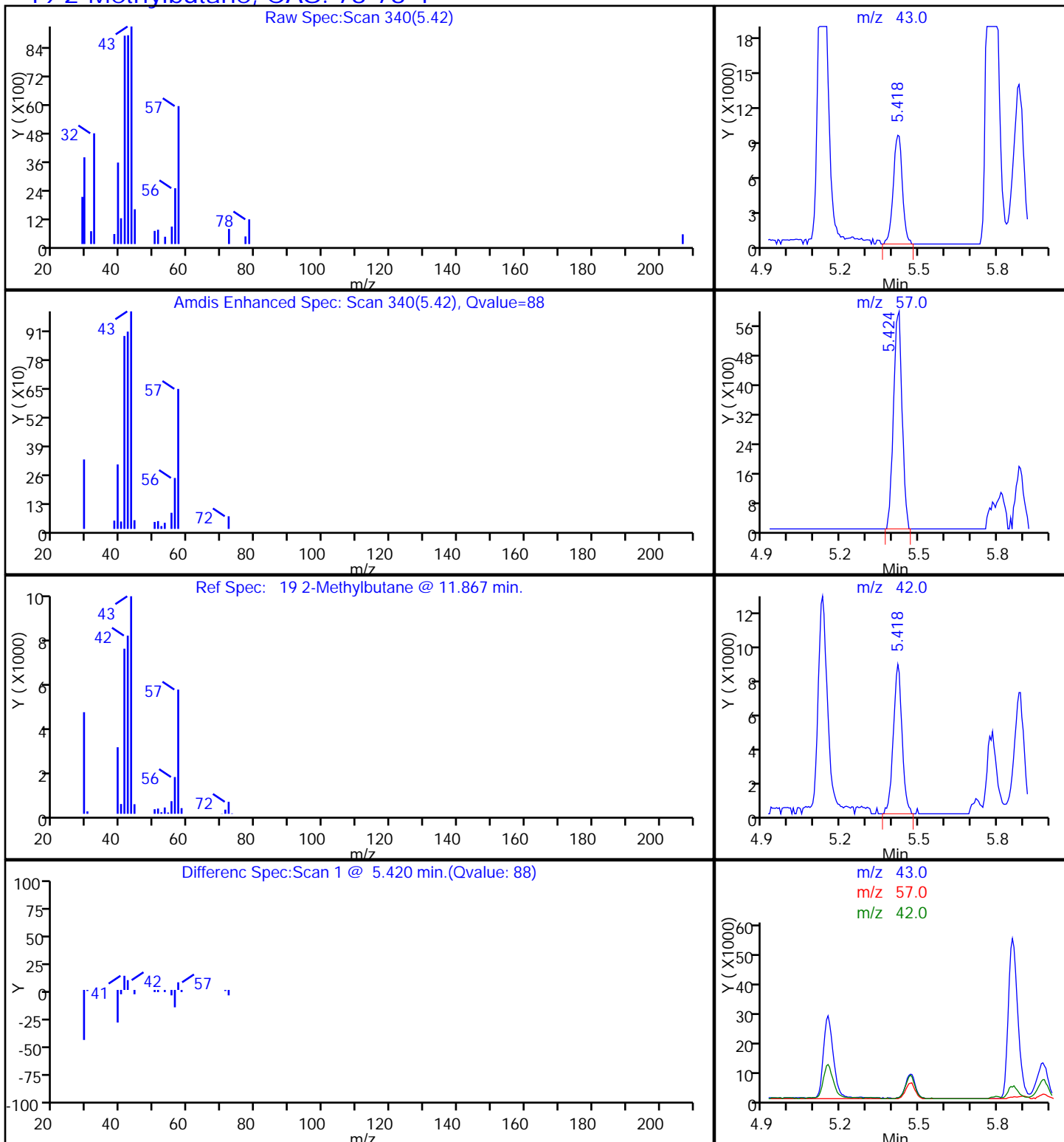
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

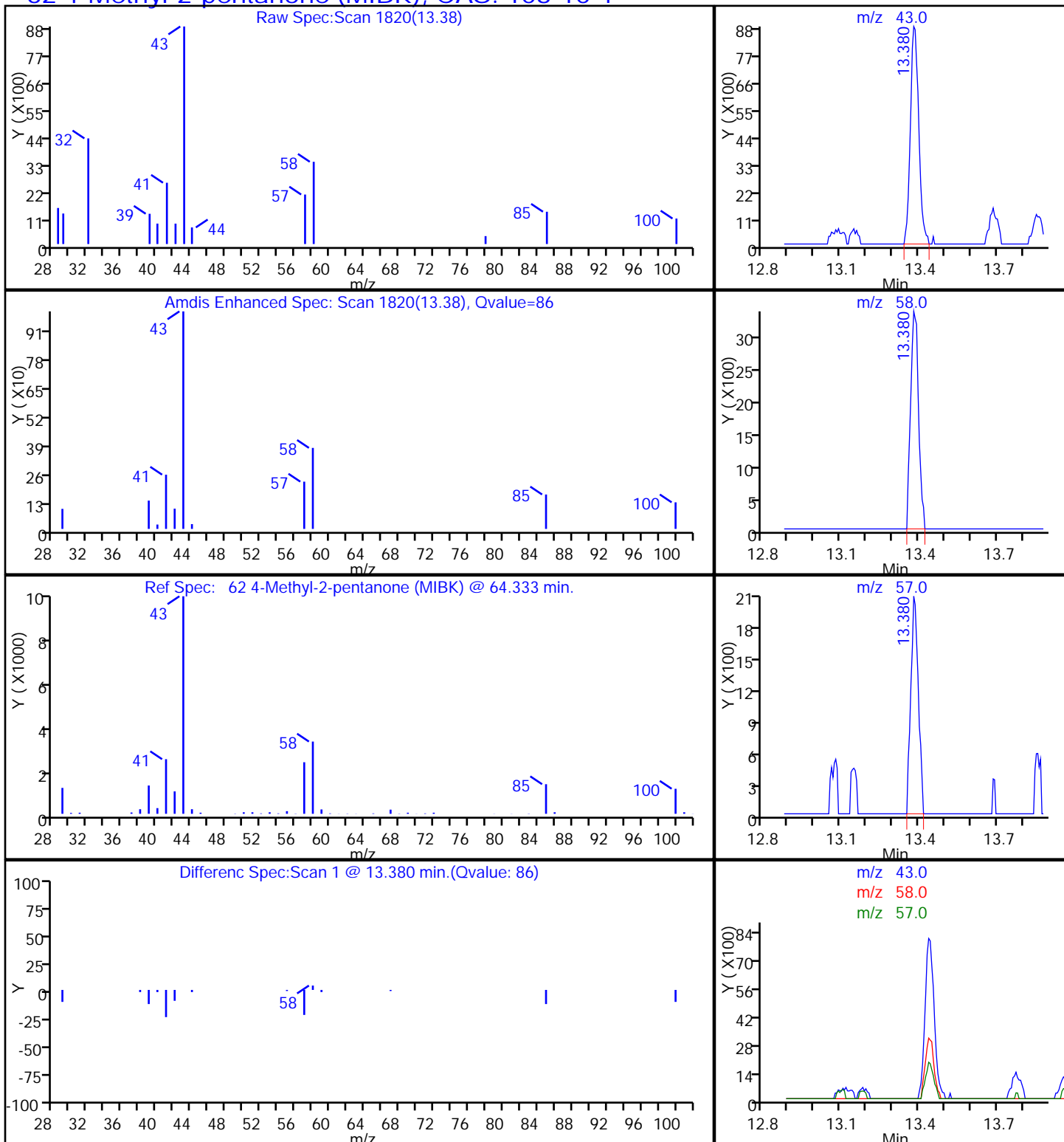
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

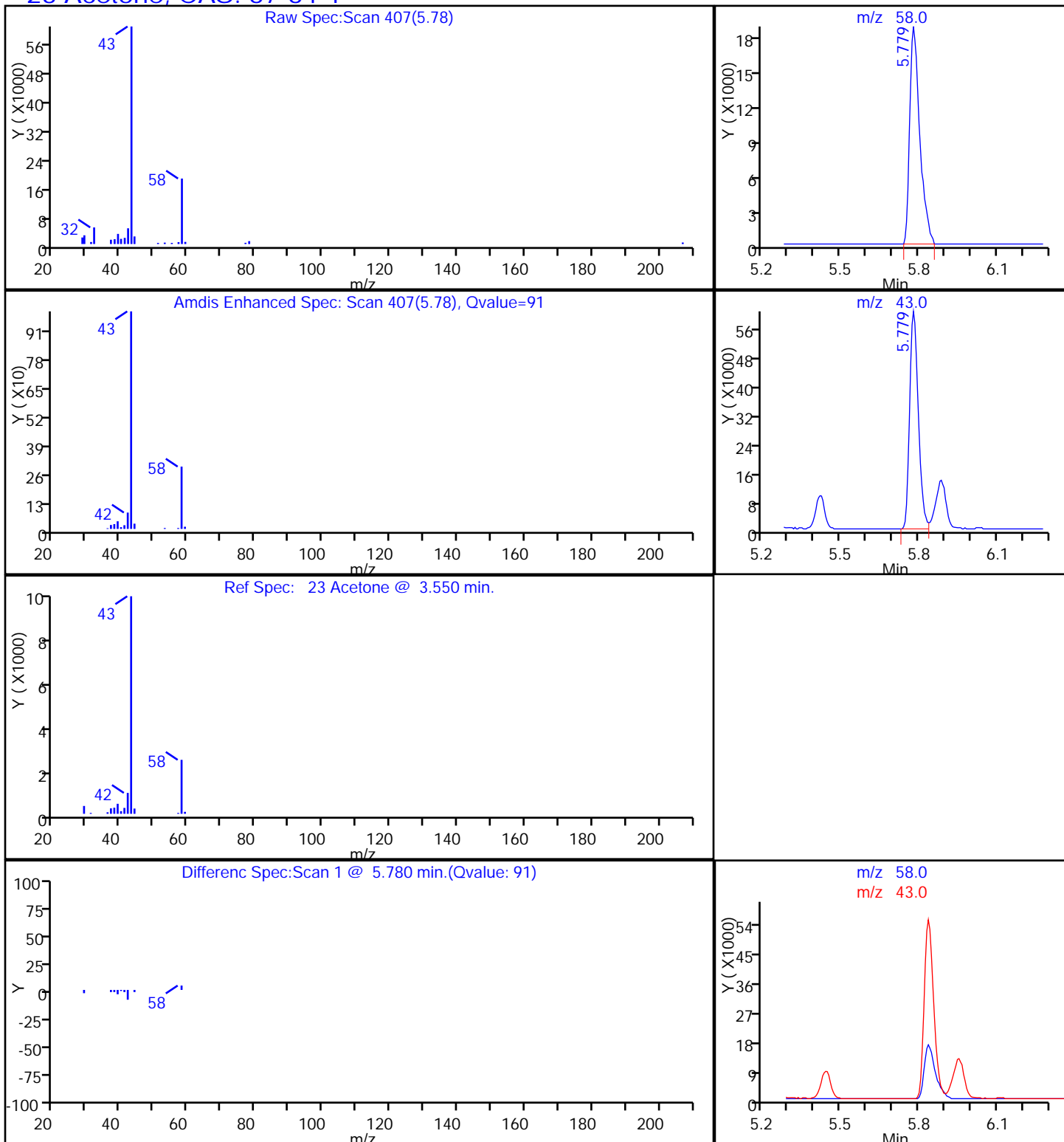
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

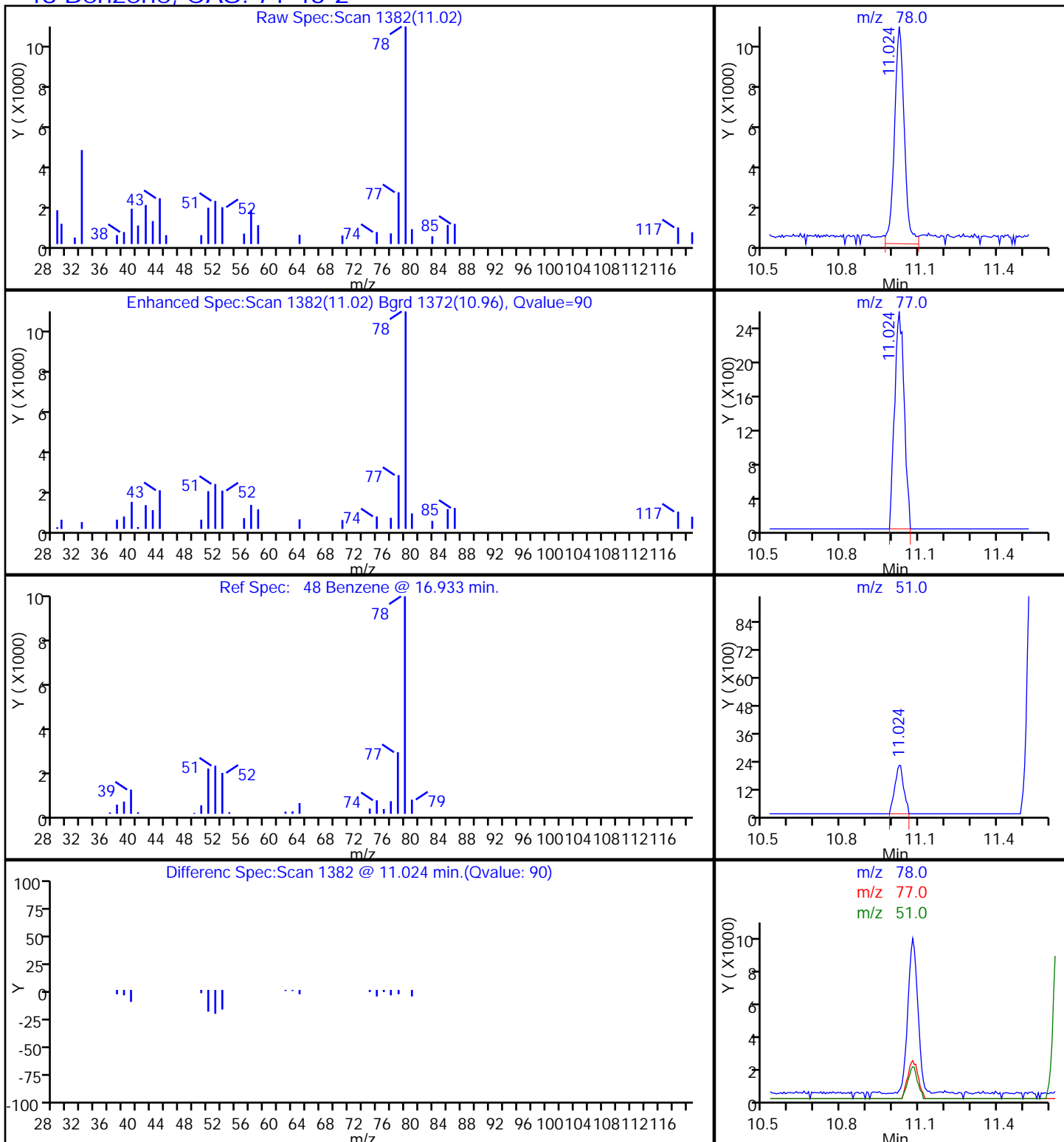
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

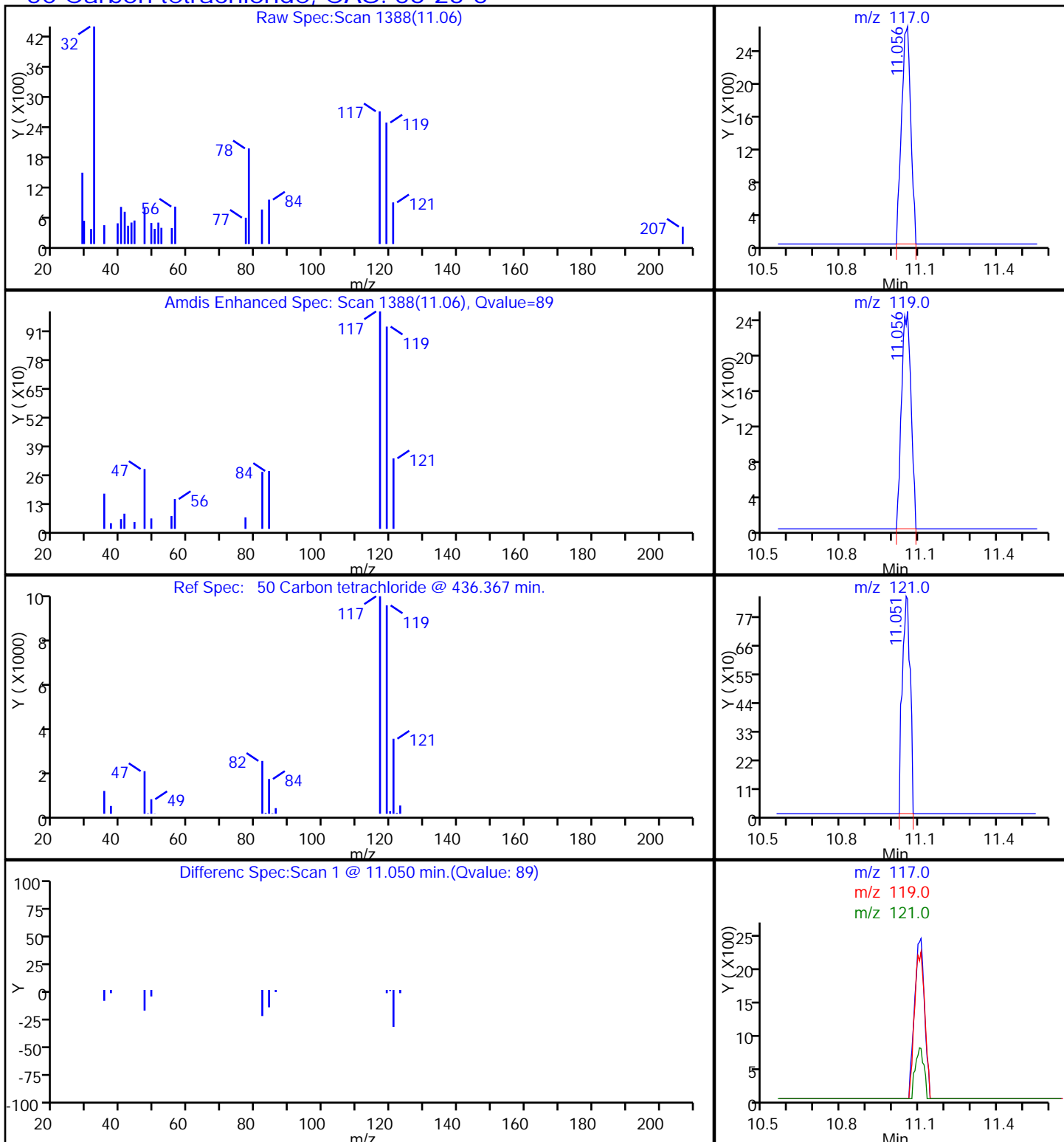
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

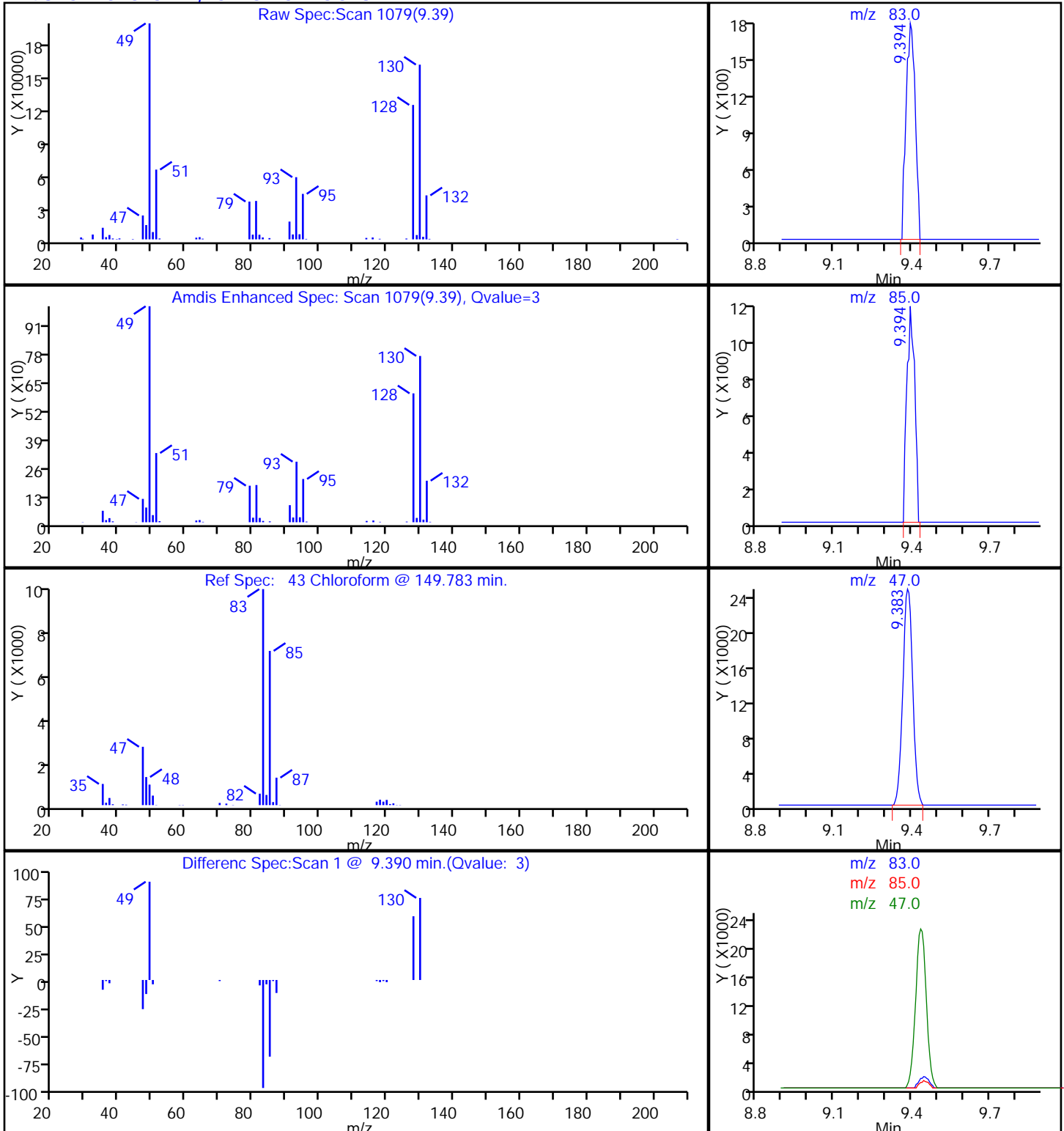
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

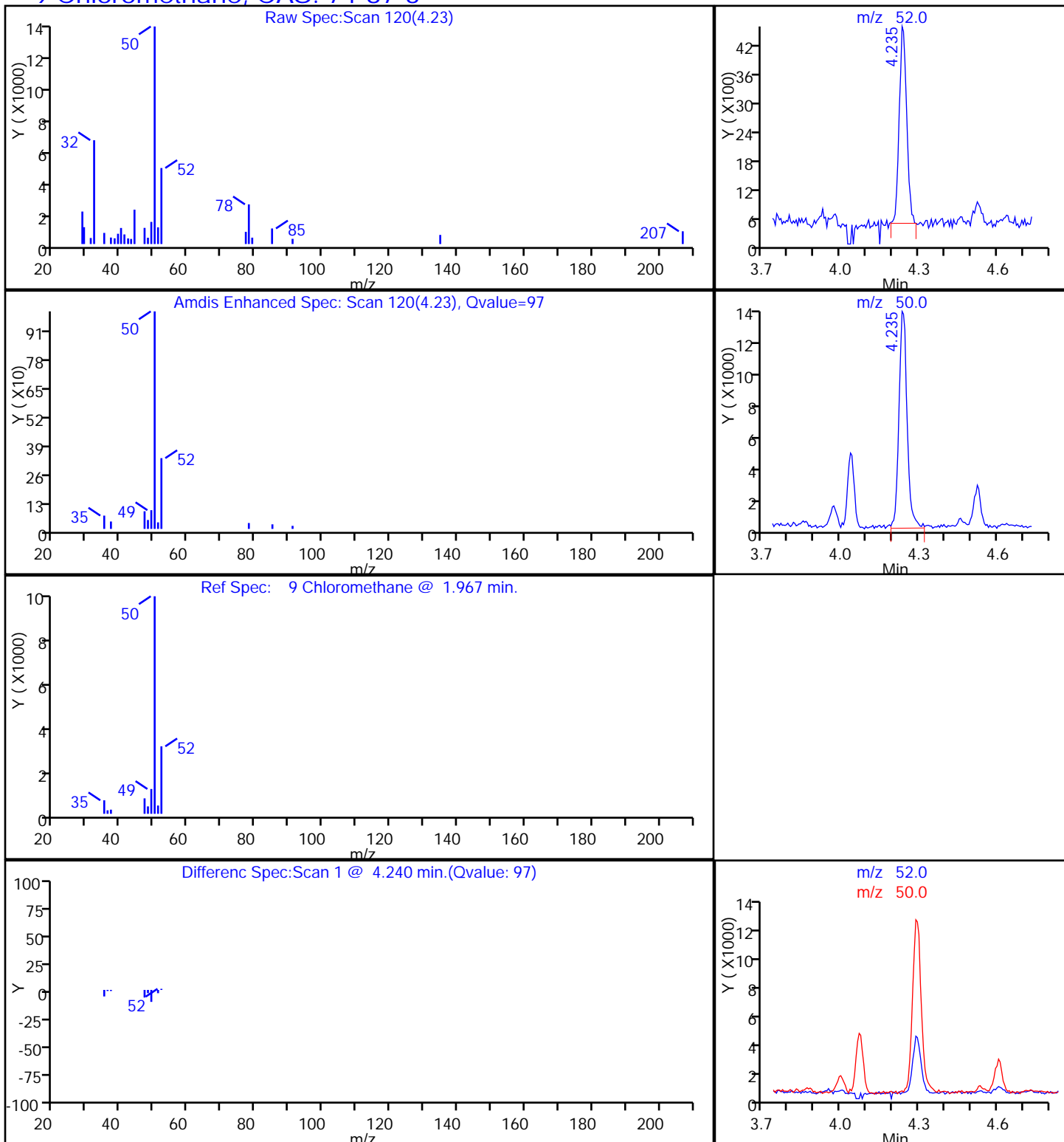
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

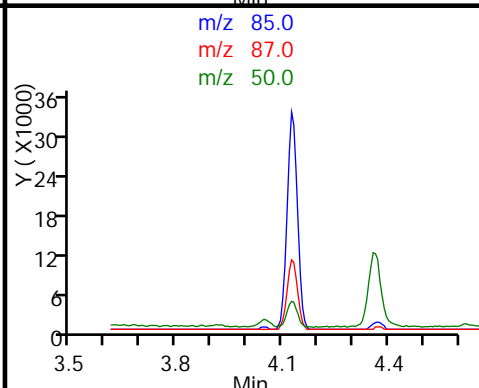
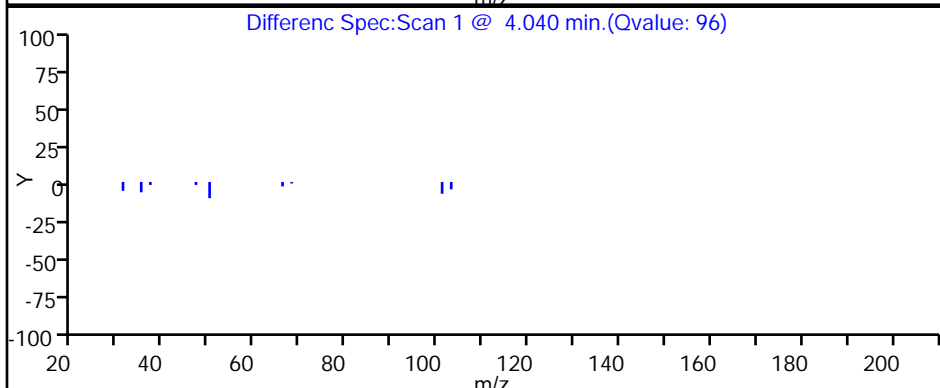
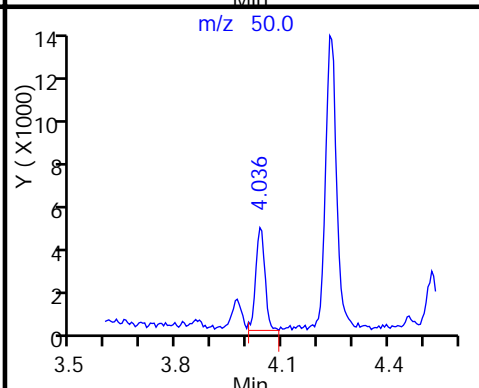
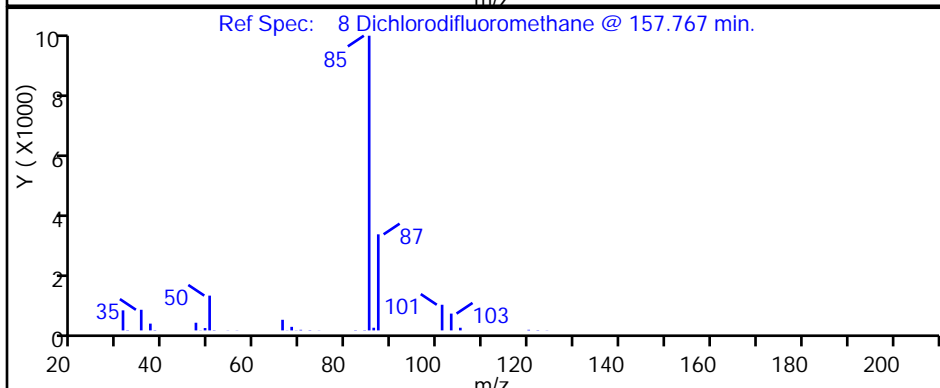
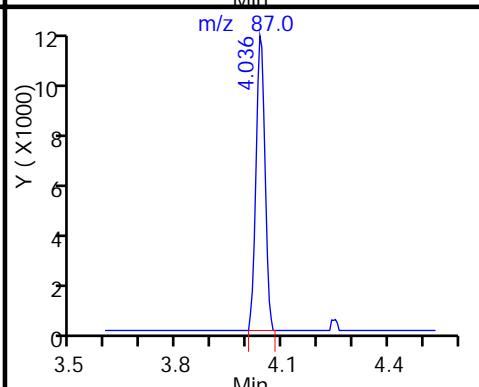
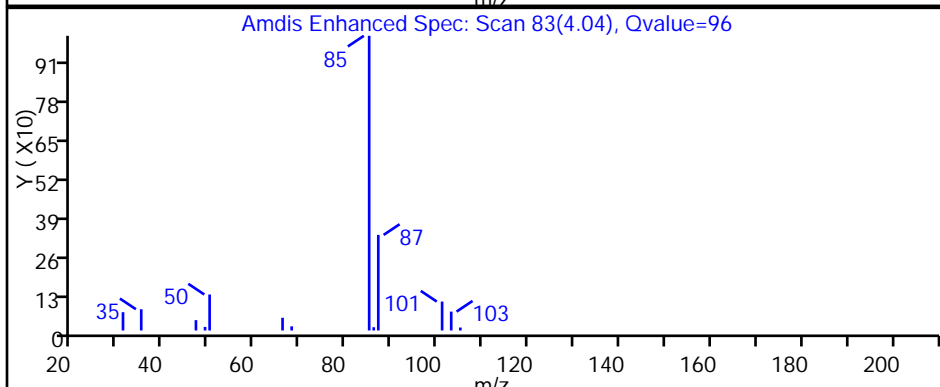
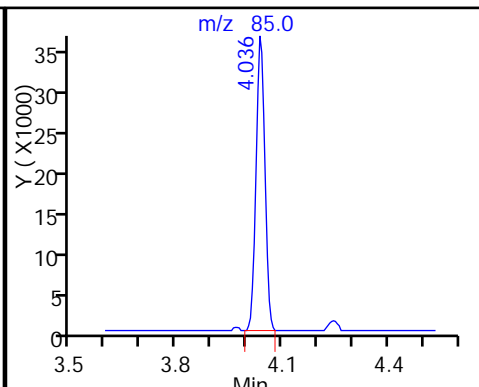
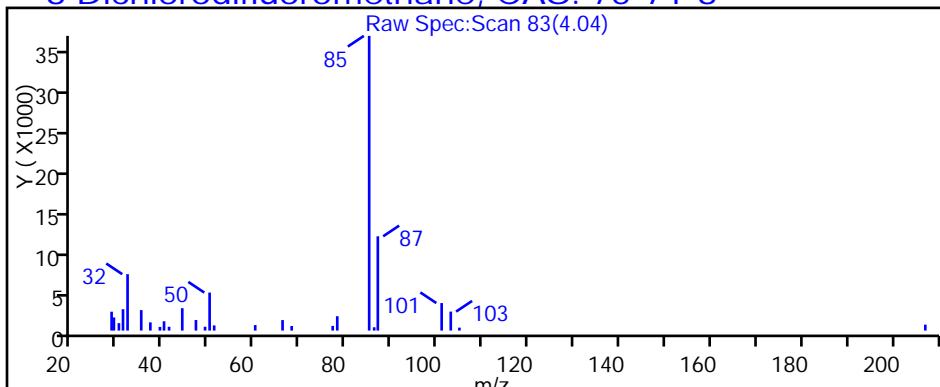
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

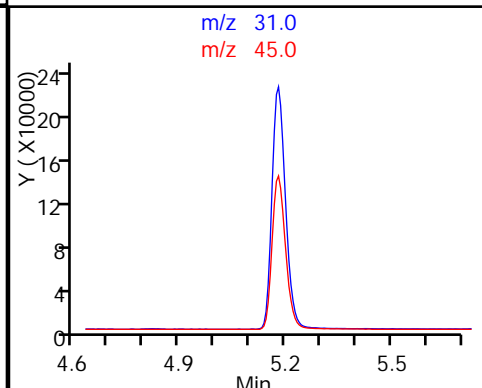
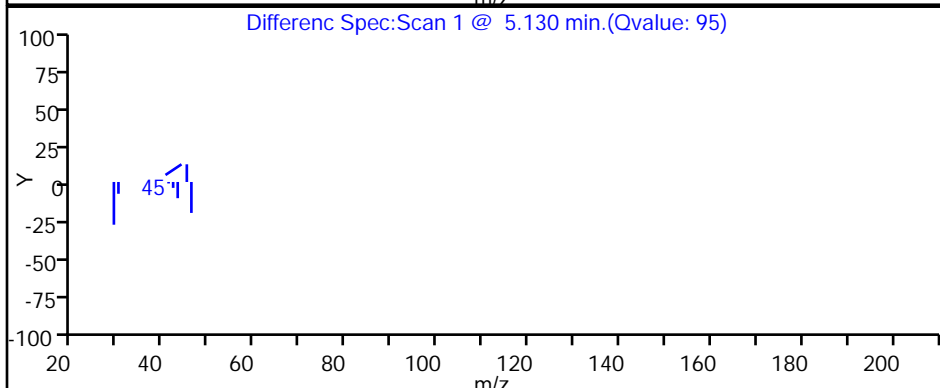
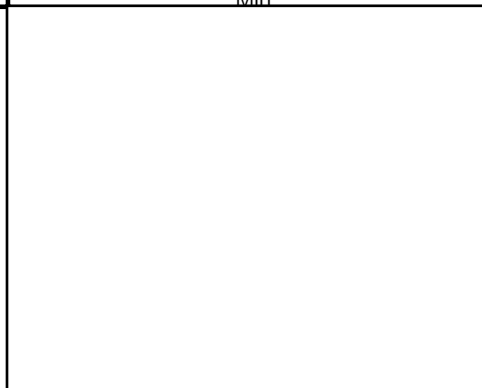
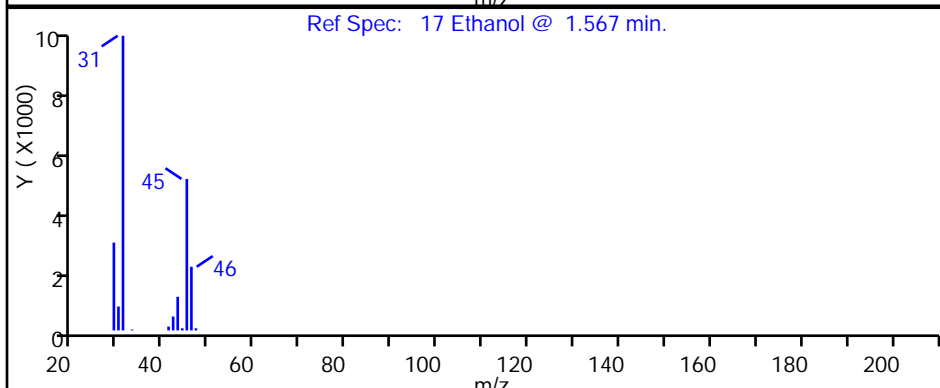
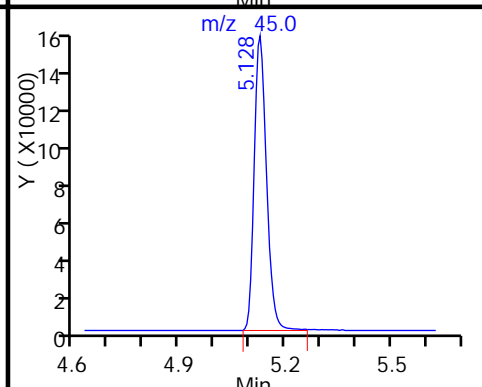
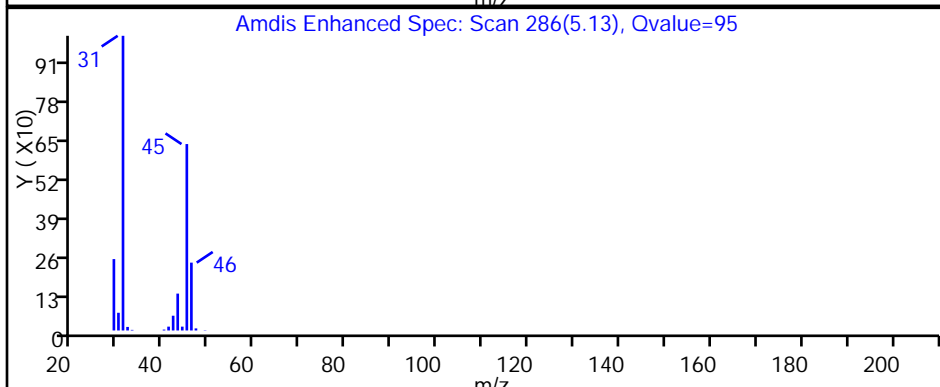
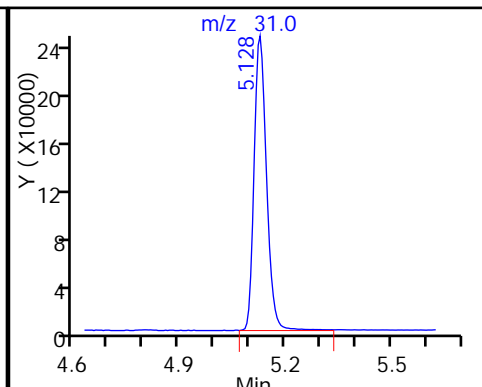
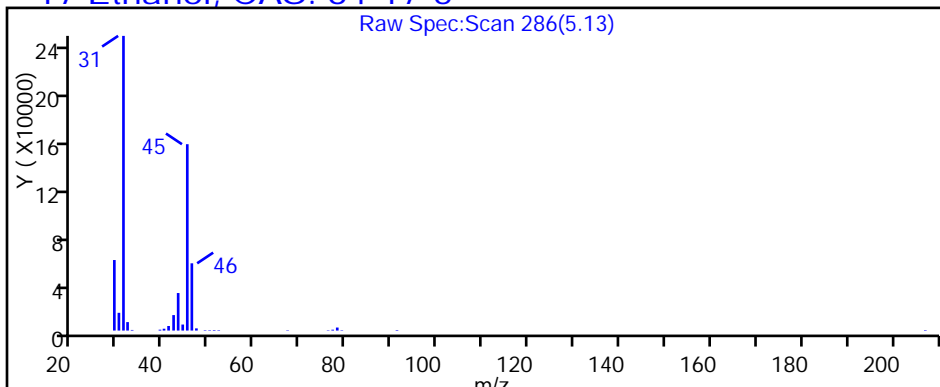
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

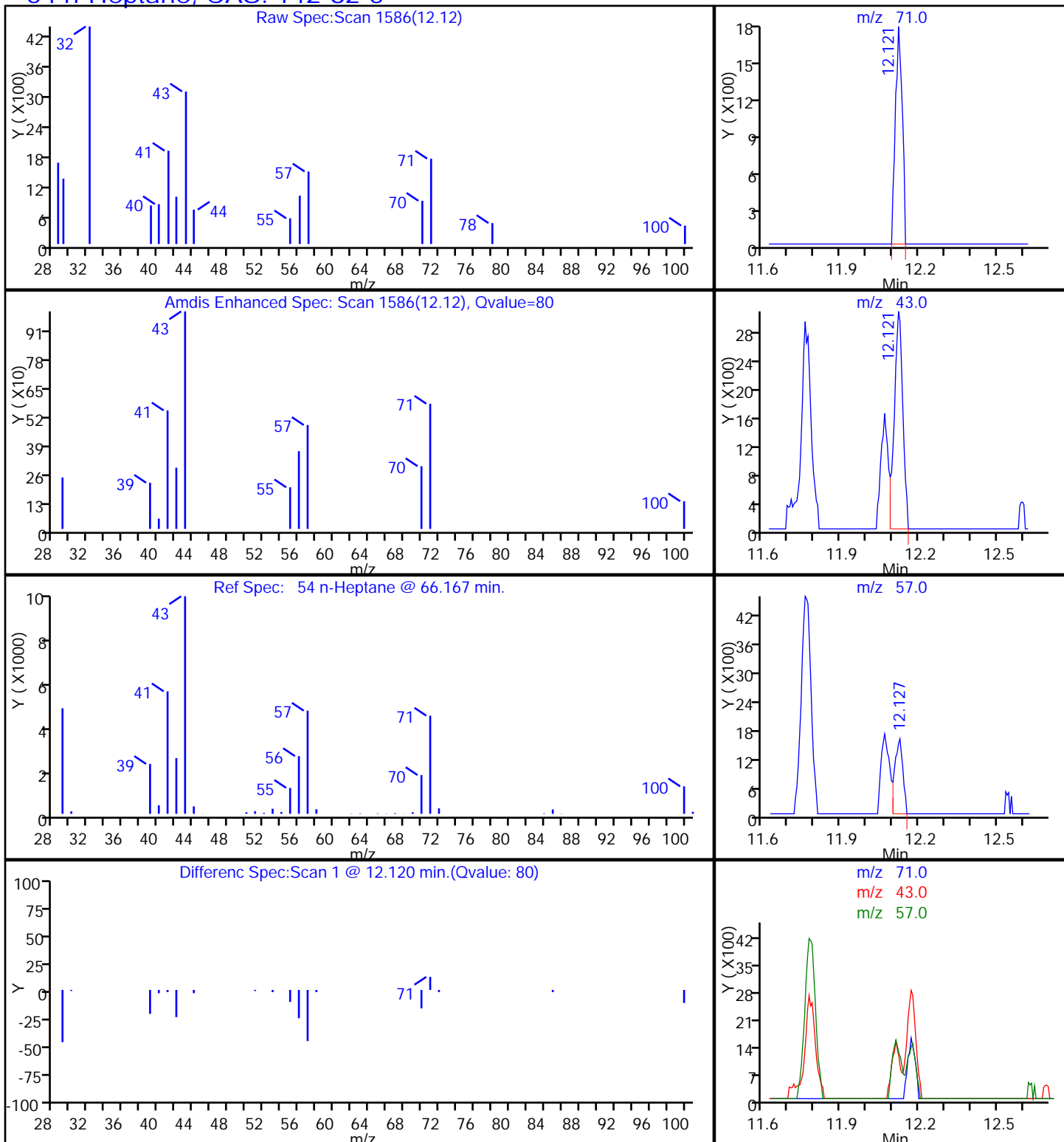
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

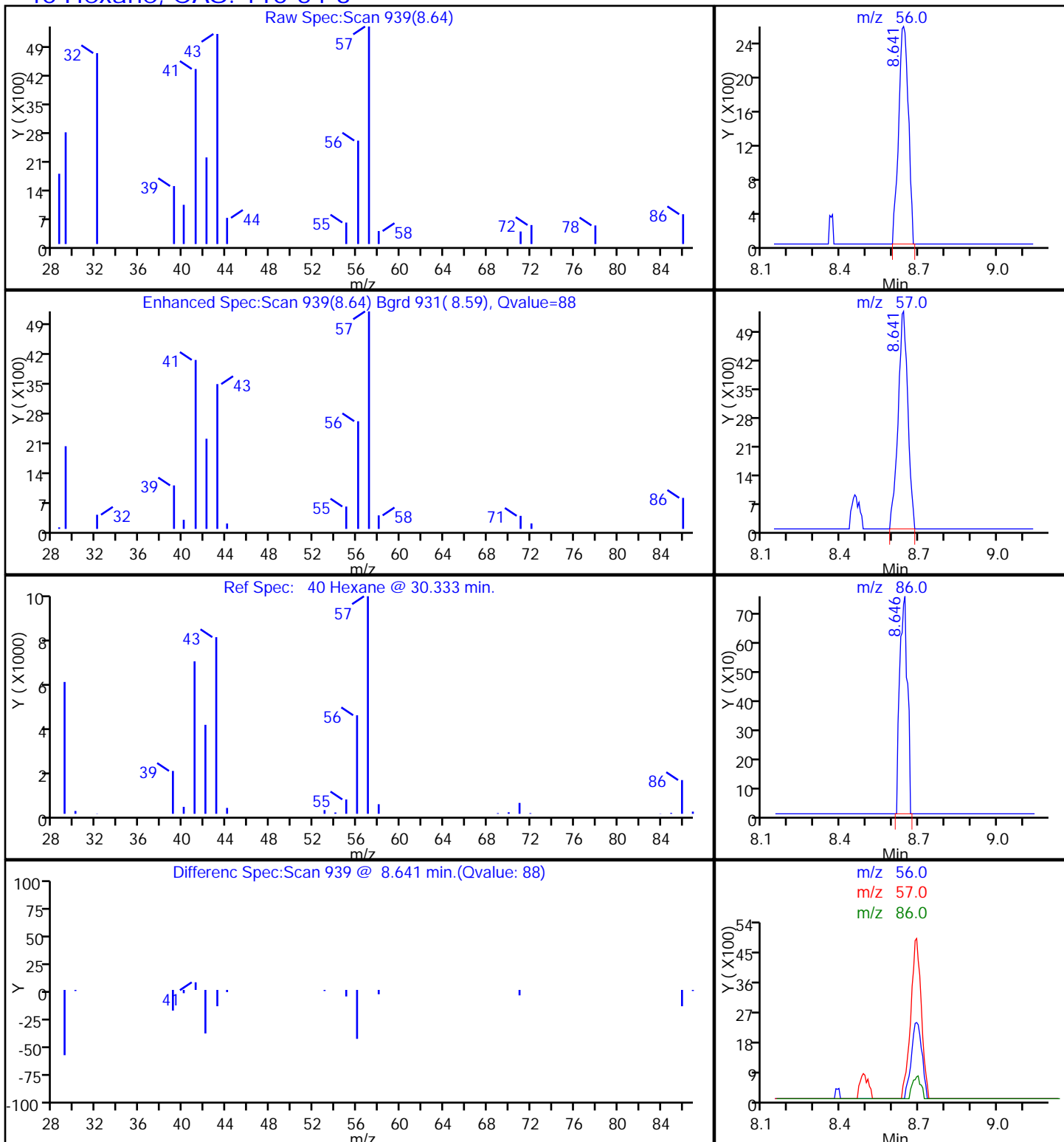
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

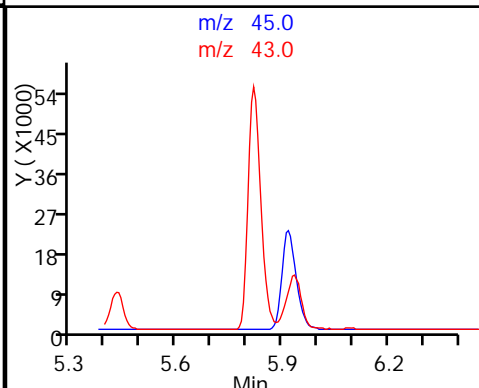
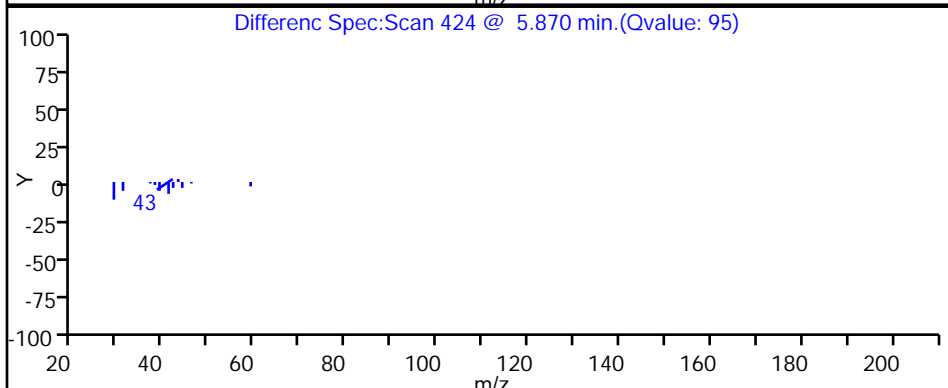
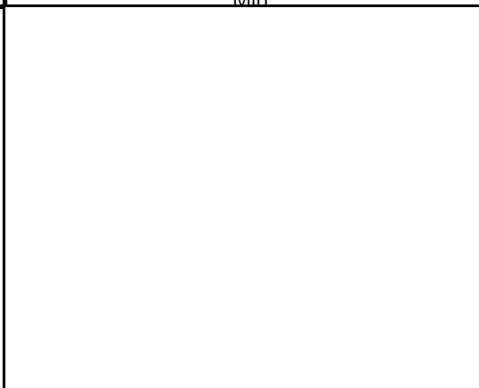
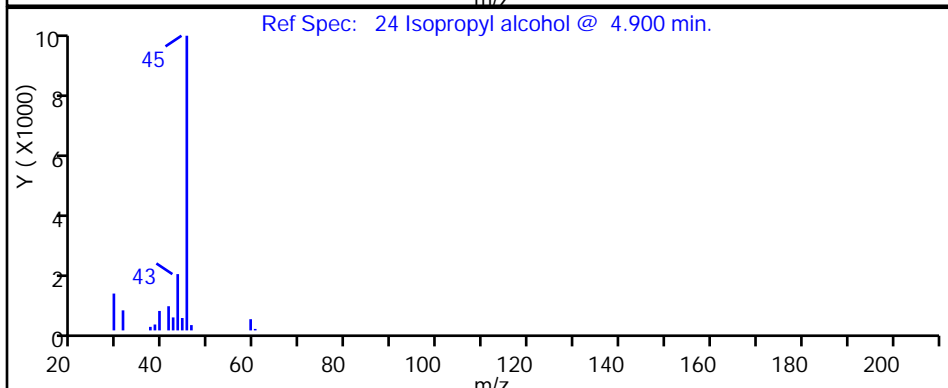
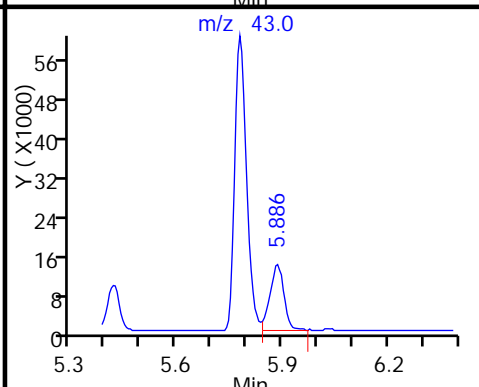
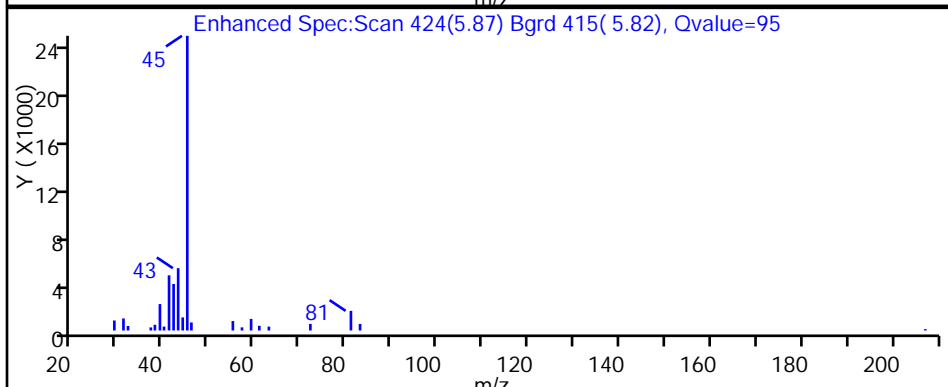
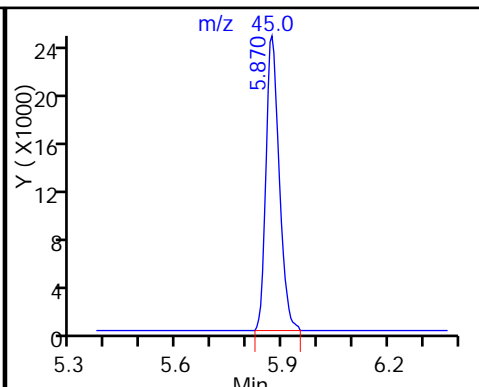
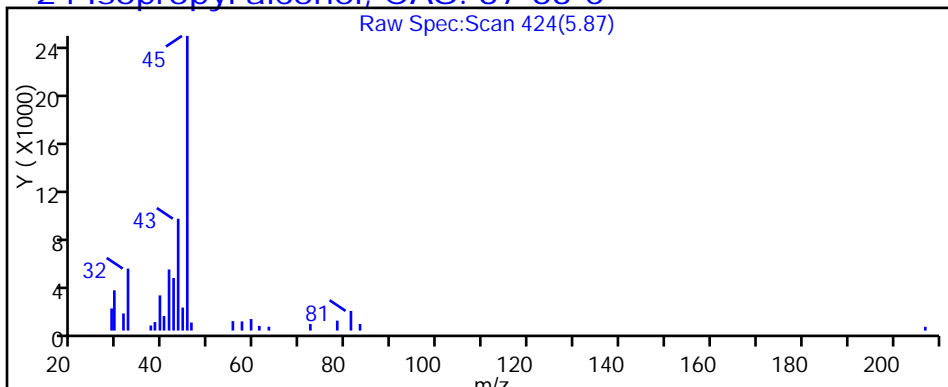
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

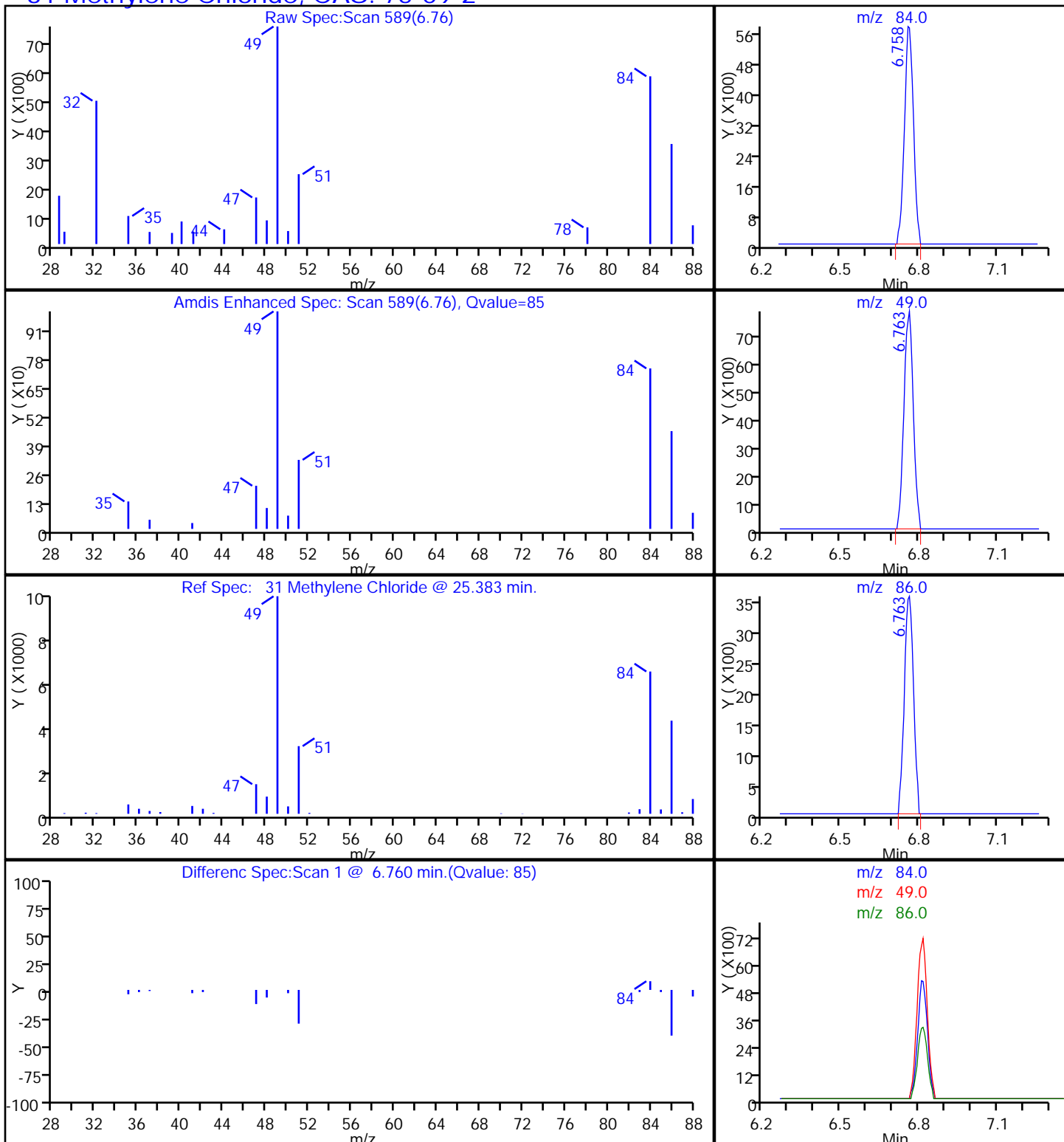
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

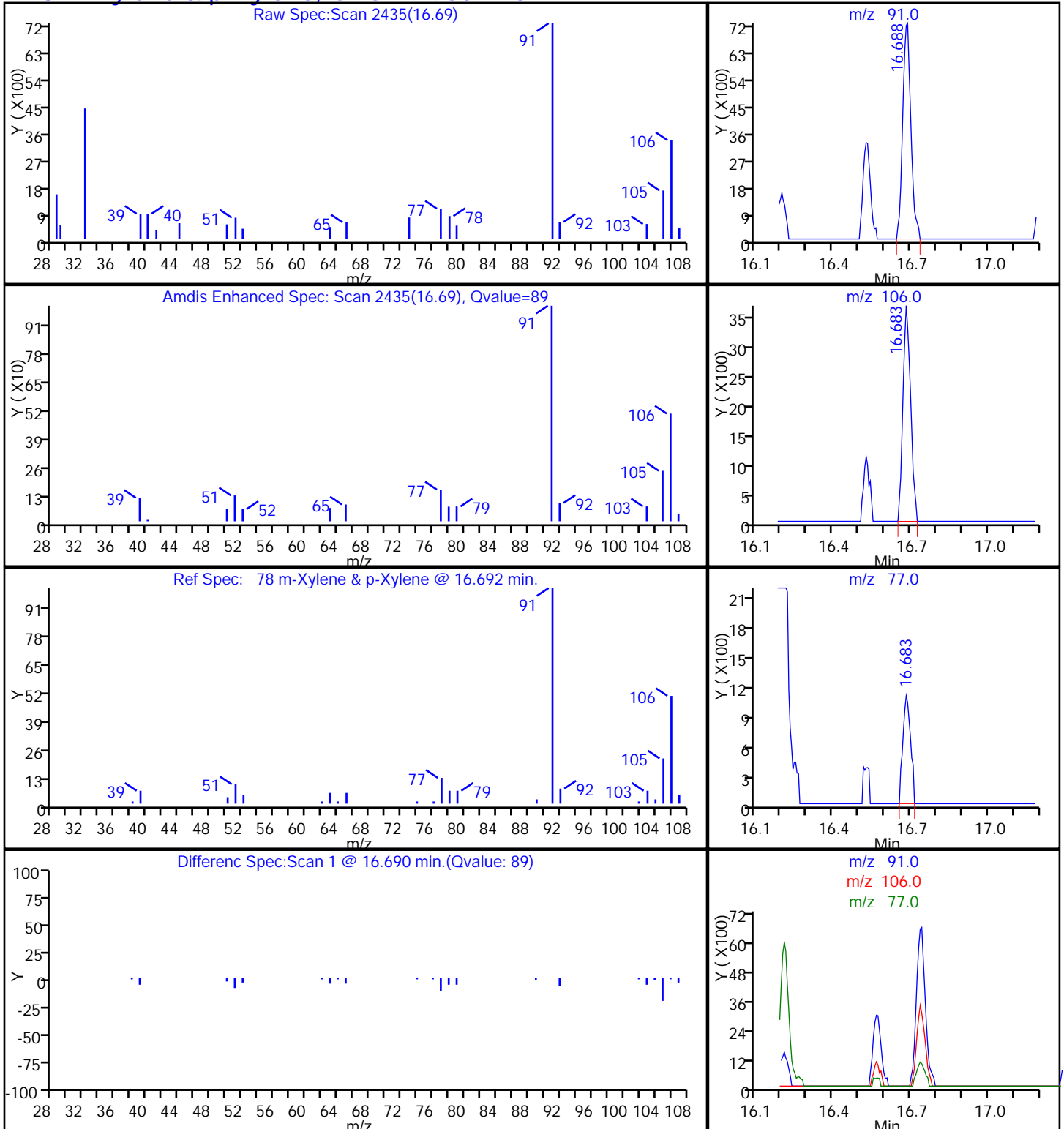
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

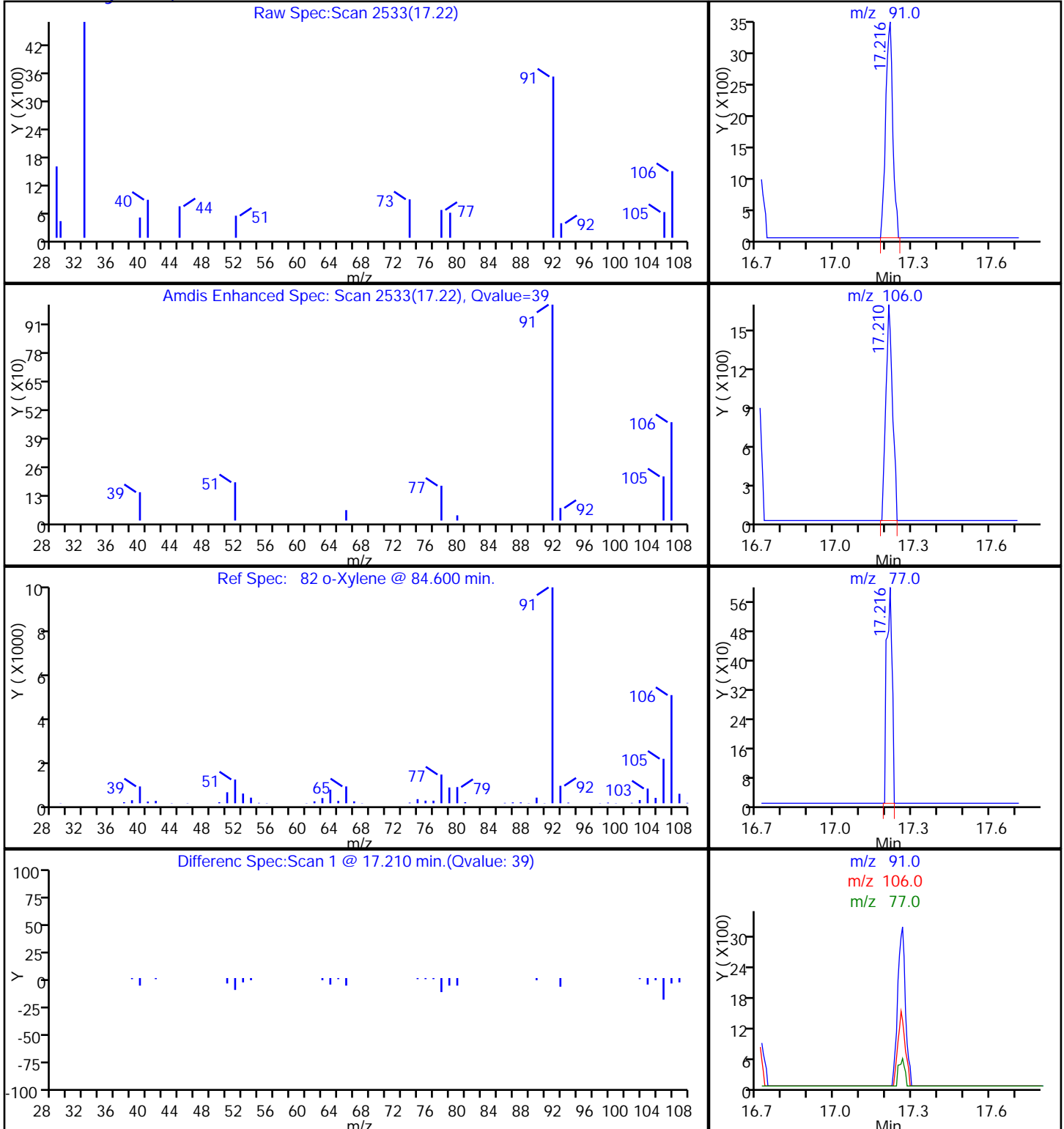
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

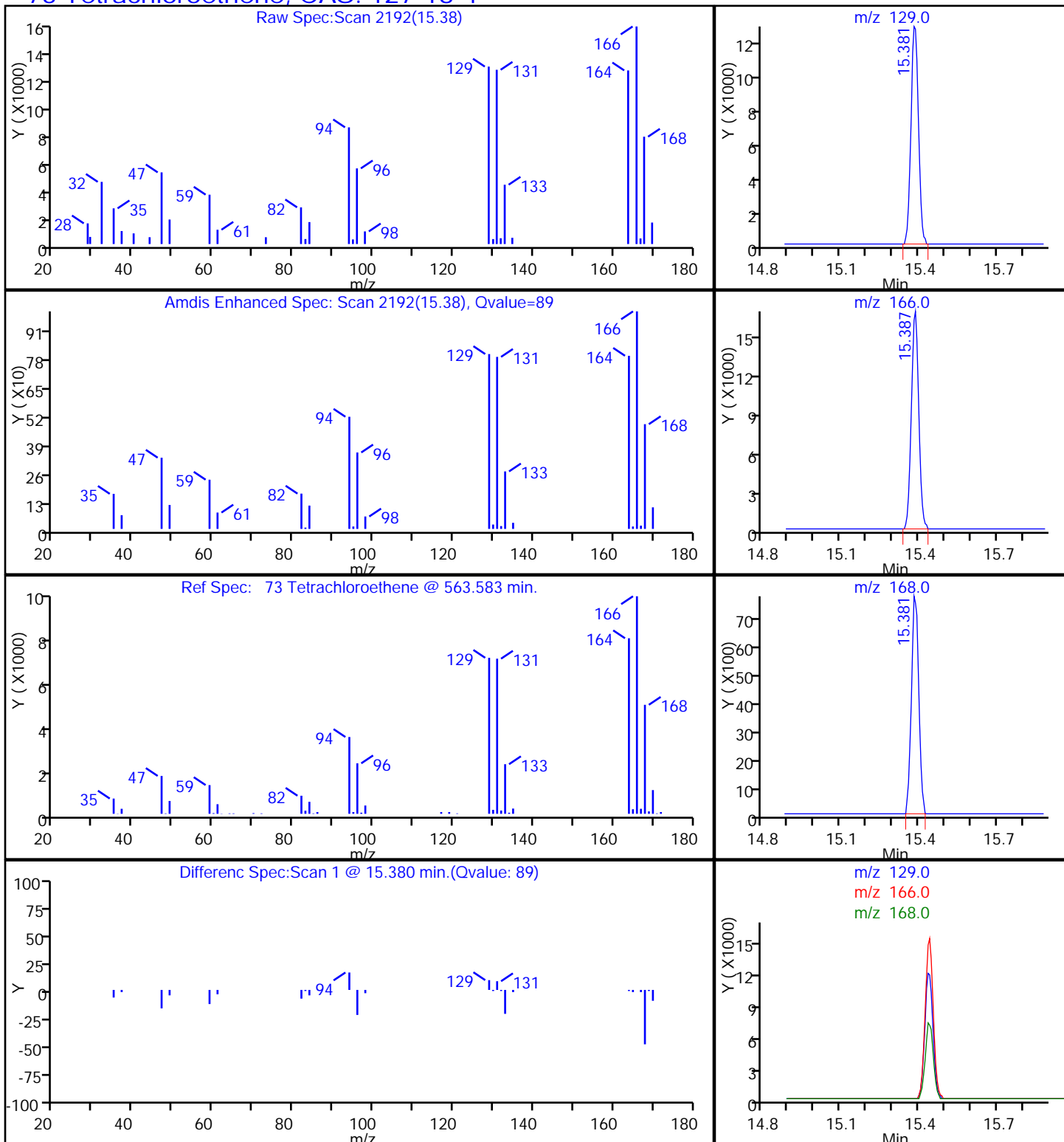
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

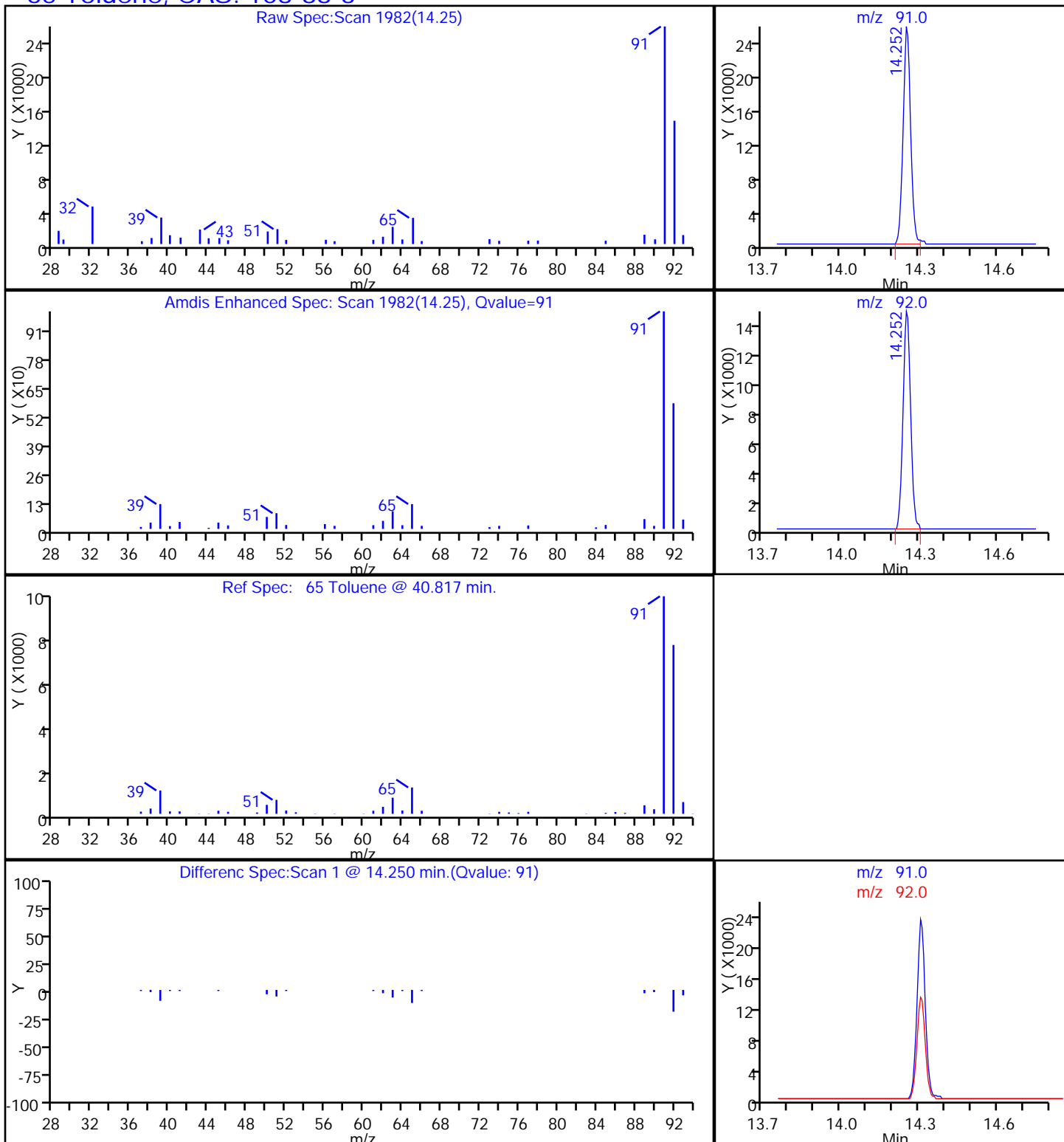
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P201.D

Injection Date: 18-Mar-2014 19:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-14

Lab Sample ID: 140-1063-14

Client ID: IA2-E14

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

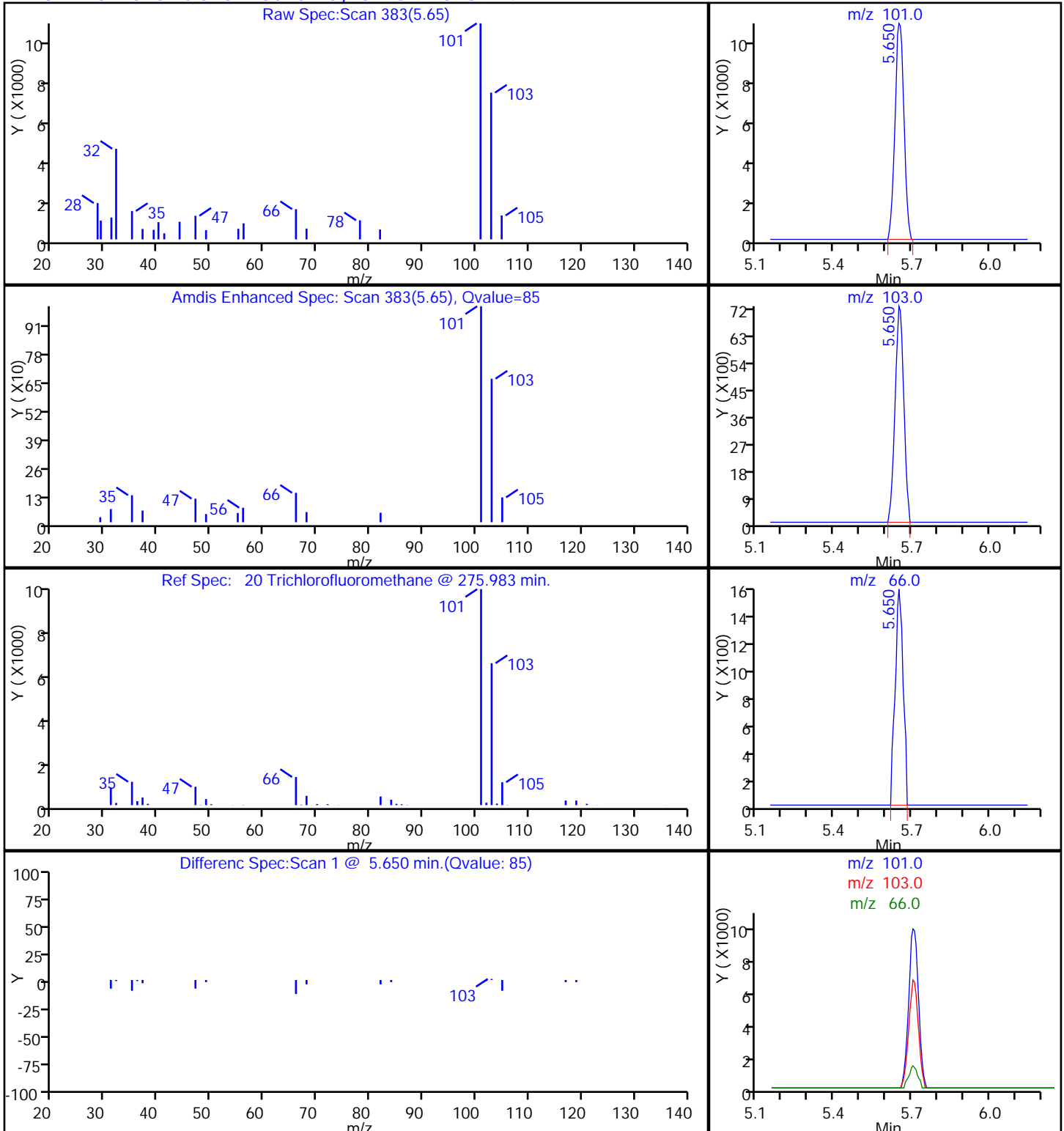
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15
 Matrix: Air Lab File ID: JC18P202.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:52
 Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05
 Soil Aliquot Vol: _____ Dilution Factor: 1.84
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.14	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.22		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.073	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	2.8		1.0	0.20
591-78-6	2-Hexanone	100.20	0.19	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	0.33	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.082	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.1		0.50	0.045
67-64-1	Acetone	58.08	16		5.0	1.4
71-43-2	Benzene	78.11	0.25		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15
 Matrix: Air Lab File ID: JC18P202.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:52
 Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05
 Soil Aliquot Vol: _____ Dilution Factor: 1.84
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.074	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.12	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.62		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.049	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.20	0.068
64-17-5	Ethanol	46.07	180		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.23		0.20	0.068
142-82-5	Heptane	100.21	0.27	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.18	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	3.0		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.32	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.82		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.32		0.20	0.061
115-07-1	Propene	42.08	3.1	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.35		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	0.074	J	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.0		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.19	J	0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15
 Matrix: Air Lab File ID: JC18P202.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:52
 Sample wt/vol: 368 (mL) Date Analyzed: 03/18/2014 20:05
 Soil Aliquot Vol: _____ Dilution Factor: 1.84
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15
 Matrix: Air Lab File ID: JC18P202.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:52
 Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05
 Soil Aliquot Vol: _____ Dilution Factor: 1.84
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.70	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	1.3		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.34	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	8.1		2.9	0.59
591-78-6	2-Hexanone	100.20	0.79	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	0.96	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.40	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.3		2.0	0.18
67-64-1	Acetone	58.08	38		12	3.3
71-43-2	Benzene	78.11	0.79		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15
 Matrix: Air Lab File ID: JC18P202.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:52
 Sample wt/vol: 368(mL) Date Analyzed: 03/18/2014 20:05
 Soil Aliquot Vol: _____ Dilution Factor: 1.84
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.46	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.57	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.17	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	340		3.8	3.8
100-41-4	Ethylbenzene	106.17	1.0		0.87	0.30
142-82-5	Heptane	100.21	1.1	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.62	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	7.3		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.1	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	3.6		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	1.4		0.87	0.26
115-07-1	Propene	42.08	5.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.4		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	0.22	J	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	3.8		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1	J	1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA3-E14 Lab Sample ID: 140-1063-15
 Matrix: Air Lab File ID: JC18P202.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:52
 Sample wt/vol: 368 (mL) Date Analyzed: 03/18/2014 20:05
 Soil Aliquot Vol: _____ Dilution Factor: 1.84
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D
 Lims ID: 140-1063-A-15 Lab Sample ID: 140-1063-15
 Client ID: IA3-E14
 Sample Type: Client
 Inject. Date: 18-Mar-2014 20:05:30 ALS Bottle#: 2 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.8400
 Sample Info: 140-1063-a-15@1.84
 Misc. Info.: J031814,TO15,,140-0000527-023
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:55:39 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 11:03:24

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.384	9.388	-0.004	89	369929	4.00	
* 2 1,4-Difluorobenzene	114	11.535	11.539	-0.004	94	1766504	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.199	16.198	0.001	86	1419898	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.819	17.817	0.002	91	954559	3.80	
7 Propene	41	3.983	3.971	0.012	85	139402	1.23	
8 Dichlorodifluoromethane	85	4.031	4.030	0.001	96	68265	0.1863	
9 Chloromethane	52	4.230	4.229	0.001	98	10342	0.2485	
17 Ethanol	31	5.123	5.116	0.007	93	2168997	73.0	
19 2-Methylbutane	43	5.408	5.407	0.001	87	20531	0.1307	
20 Trichlorofluoromethane	101	5.645	5.644	0.001	85	25008	0.0777	
23 Acetone	58	5.763	5.767	-0.004	98	333973	6.35	
24 Isopropyl alcohol	45	5.860	5.848	0.012	93	164331	1.18	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.586	6.580	0.006	63	5774	0.0259	
31 Methylene Chloride	84	6.753	6.757	-0.004	88	12591	0.1272	
39 2-Butanone (MEK)	72	8.587	8.586	0.001	100	38568	1.10	
40 Hexane	56	8.630	8.635	-0.005	63	7043	0.0708	
43 Chloroform	83	9.389	9.393	-0.004	39	10145	0.0471	
44 Tetrahydrofuran	42	9.825	9.802	0.023	56	2528	0.0295	
48 Benzene	78	11.019	11.023	-0.004	90	30079	0.0992	
49 Cyclohexane	69	11.024	11.034	-0.010	33	1164	0.0195	
50 Carbon tetrachloride	117	11.046	11.050	-0.004	88	7368	0.0294	
53 Isooctane	57	11.761	11.760	0.001	29	15107	0.0292	
54 n-Heptane	71	12.122	12.120	0.002	83	11625	0.1085	
62 4-Methyl-2-pentanone (MIBK)	43	13.375	13.368	0.007	97	78166	0.4221	
65 Toluene	91	14.252	14.256	-0.004	93	106530	0.4044	
69 2-Hexanone	58	14.693	14.681	0.012	79	6684	0.0775	
73 Tetrachloroethene	129	15.382	15.386	-0.004	84	17366	0.1415	
76 Ethylbenzene	91	16.528	16.532	-0.004	85	27063	0.0930	
78 m-Xylene & p-Xylene	91	16.684	16.688	-0.004	99	77069	0.3283	
82 o-Xylene	91	17.211	17.215	-0.004	89	30363	0.1276	
88 4-Ethyltoluene	105	18.448	18.447	0.001	50	10358	0.0328	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
93 1,2,4-Trimethylbenzene	105	18.943	18.942	0.001	80	15793	0.0573	
97 1,4-Dichlorobenzene	146	19.298	19.297	0.001	87	14655	0.0869	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Worklist Smp#: 23

Client ID: IA3-E14

Purge Vol: 500.000 mL

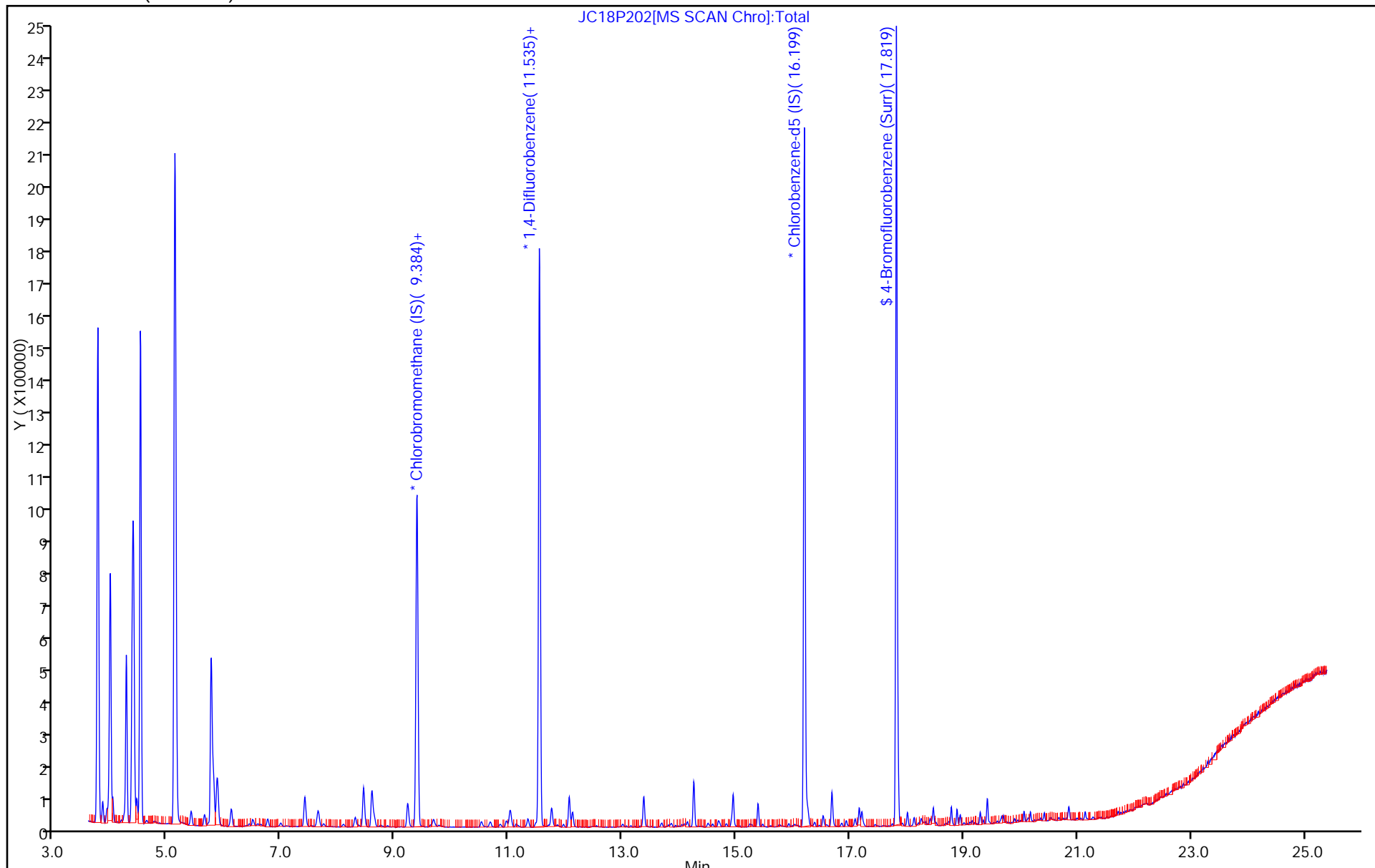
Dil. Factor: 1.8400

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

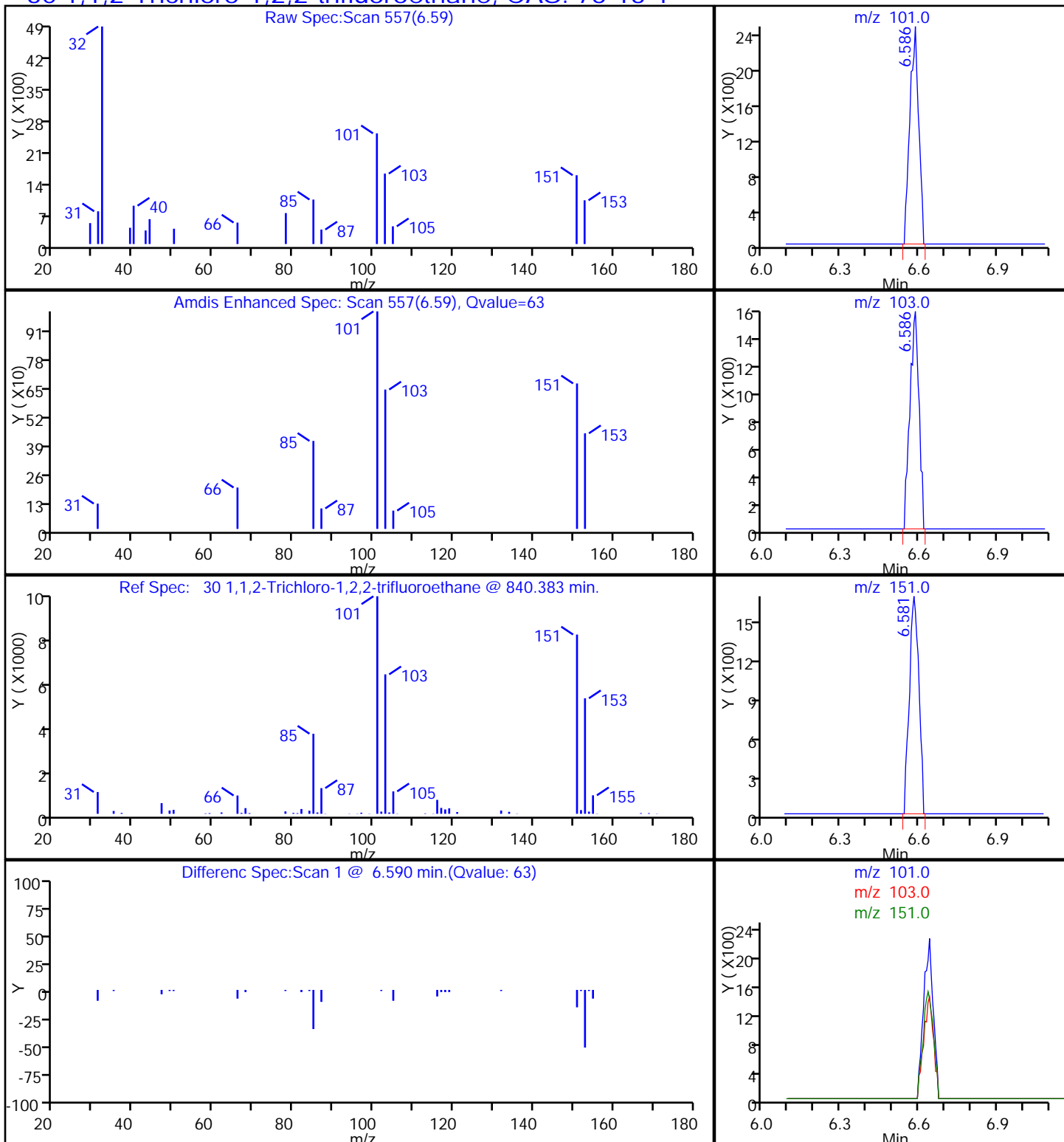
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

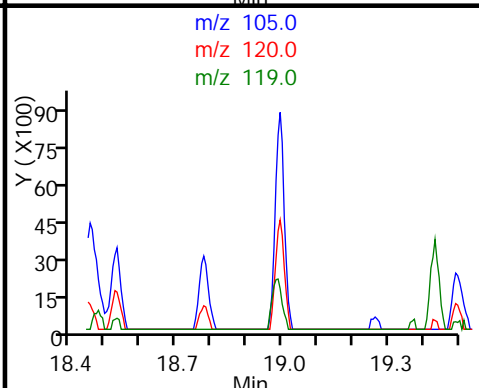
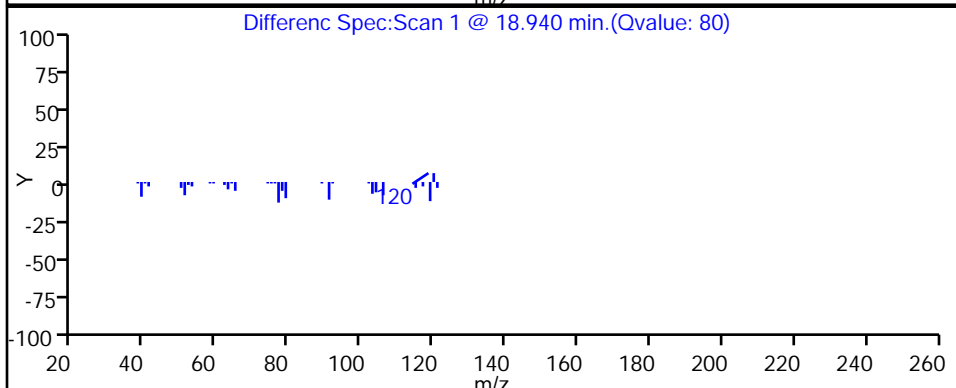
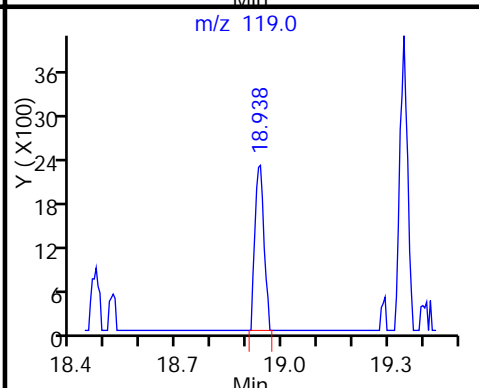
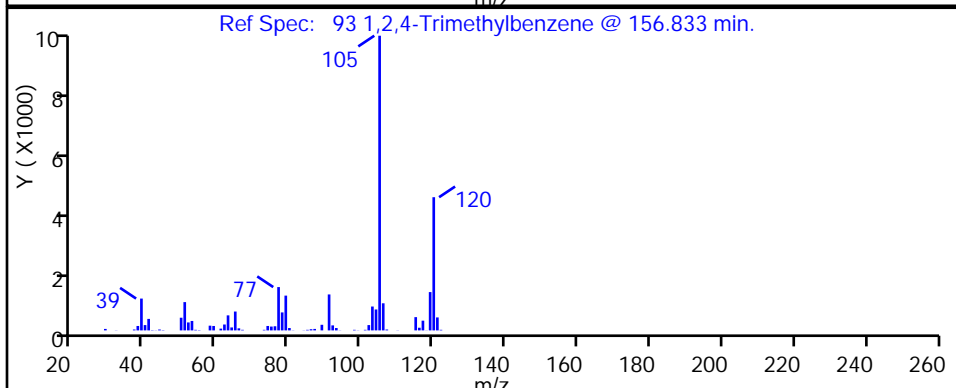
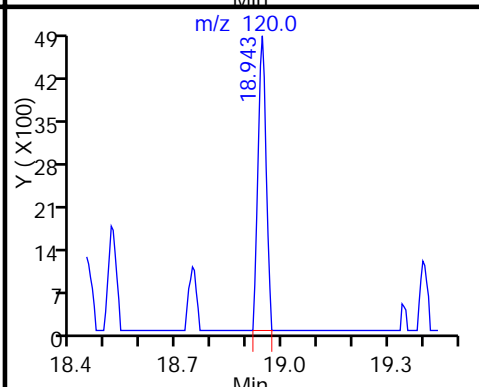
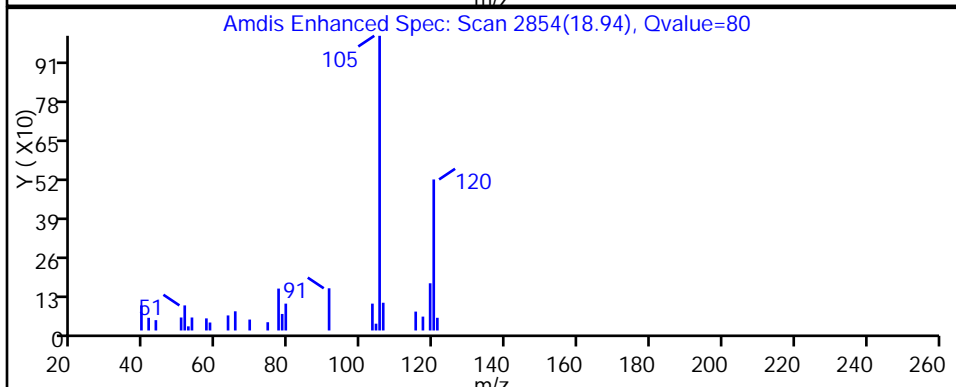
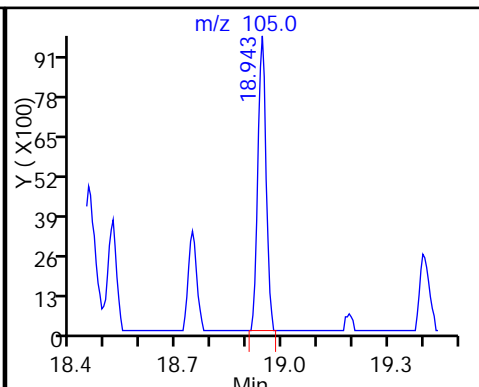
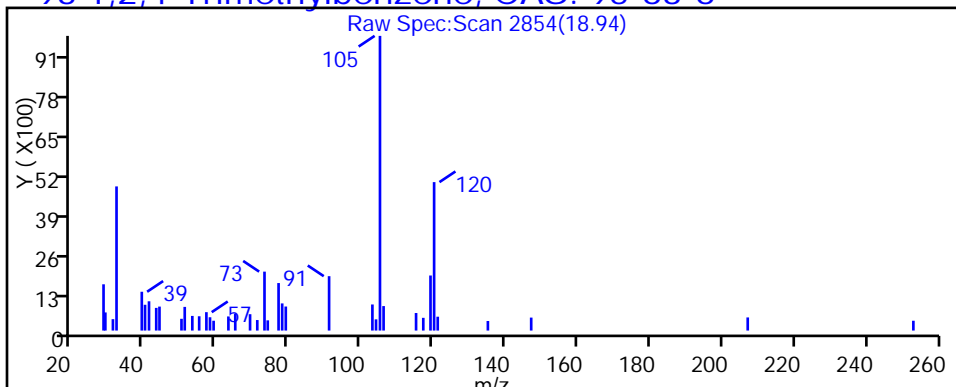
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

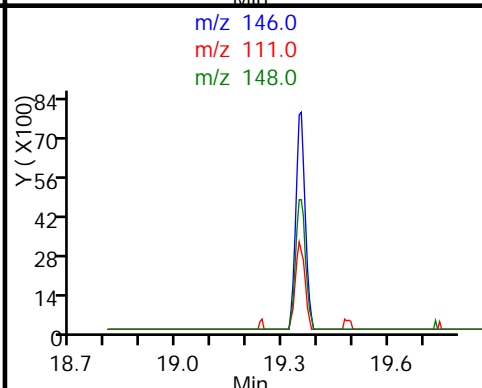
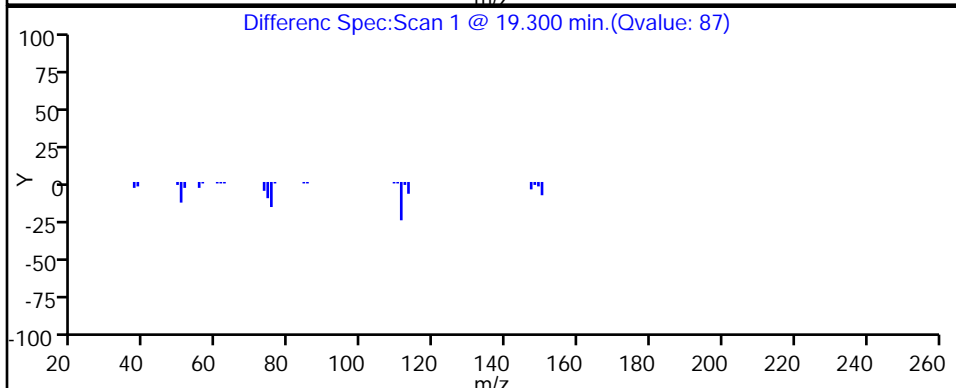
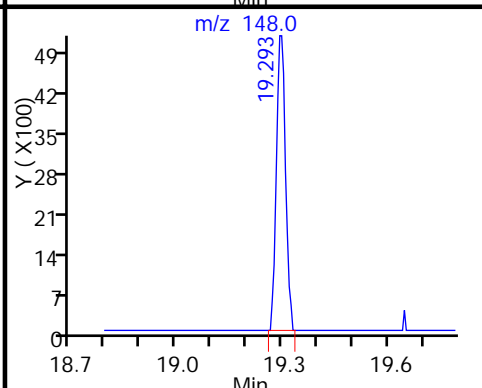
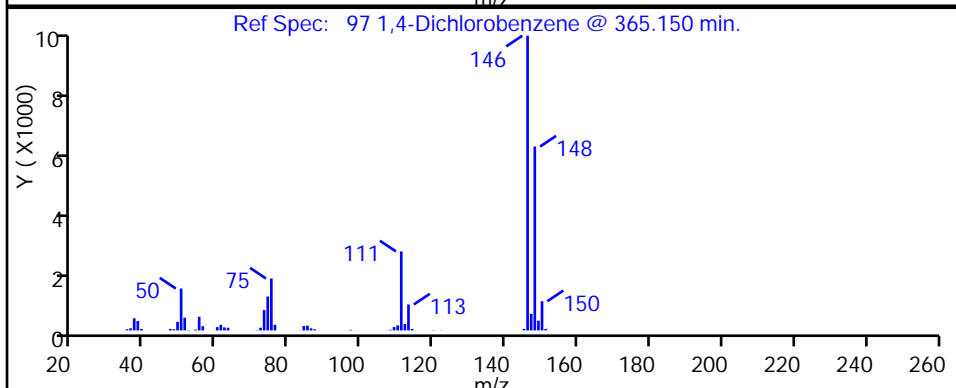
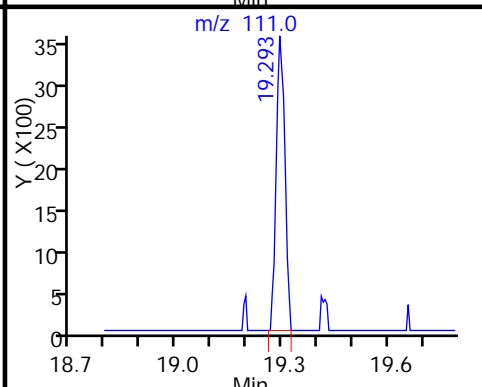
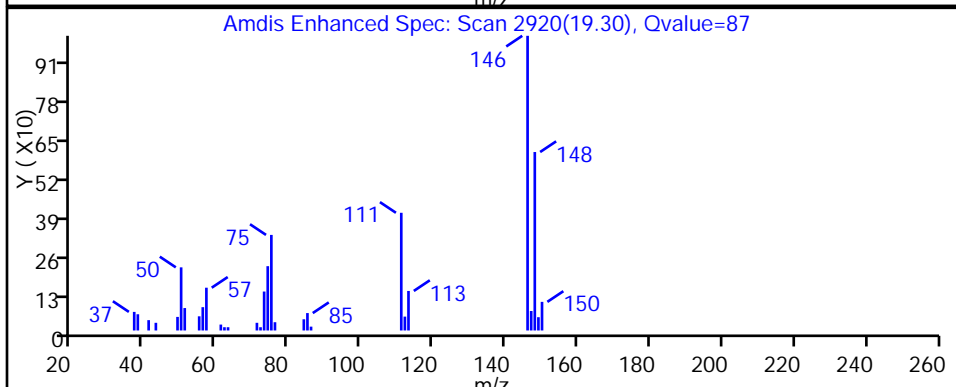
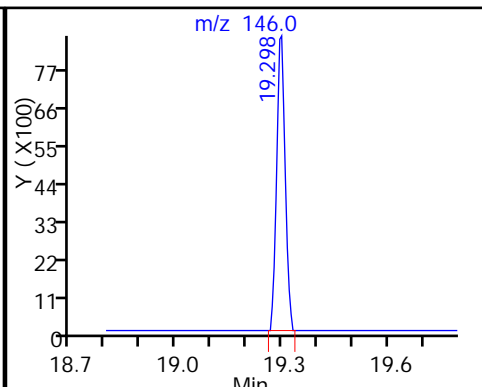
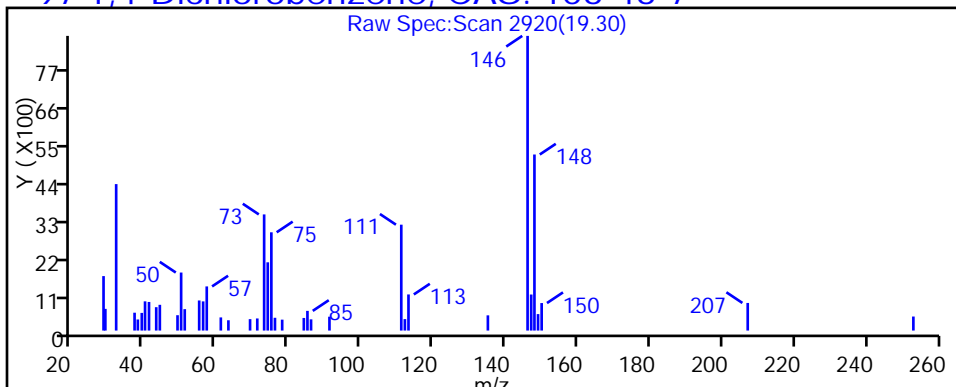
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

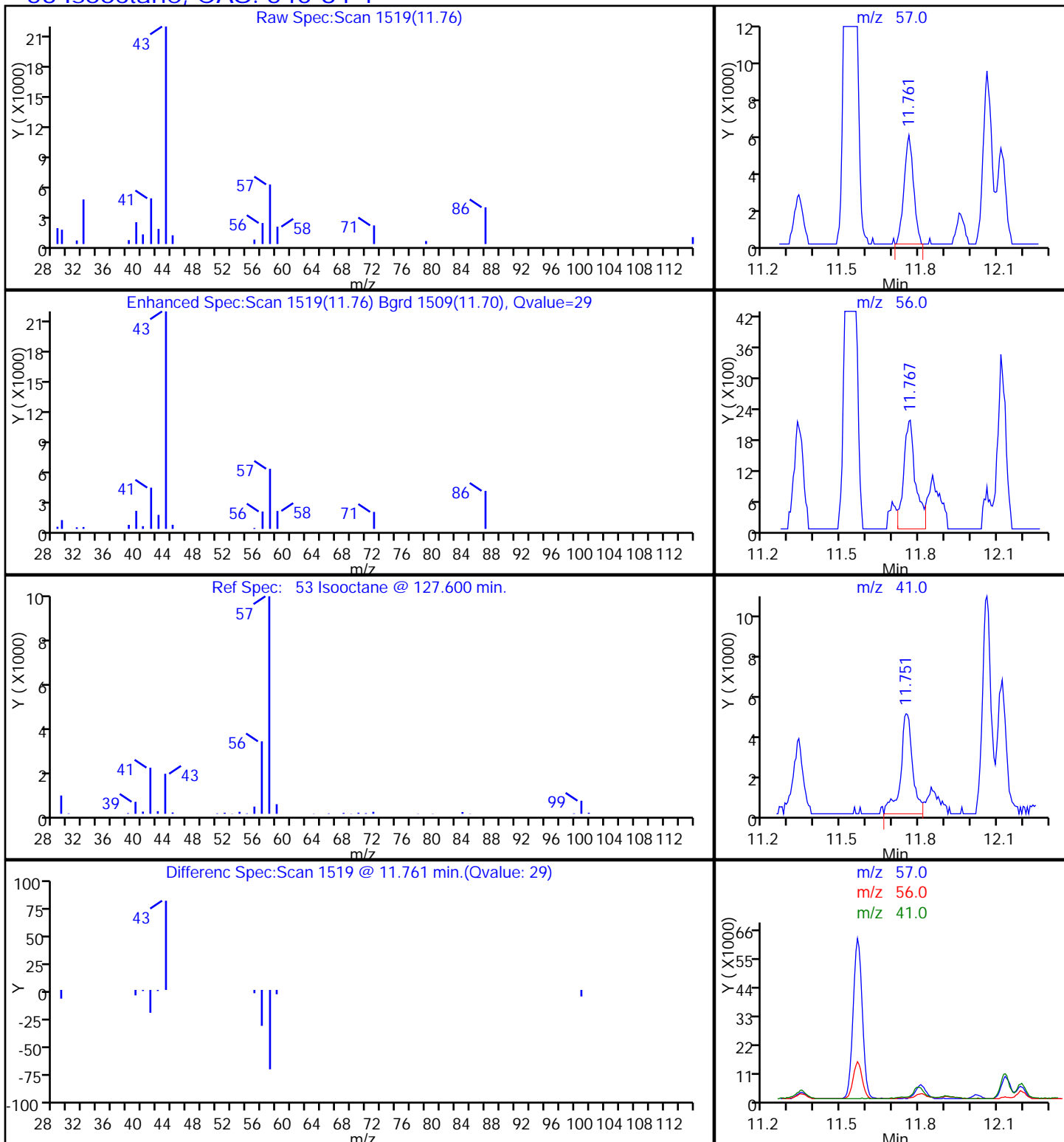
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

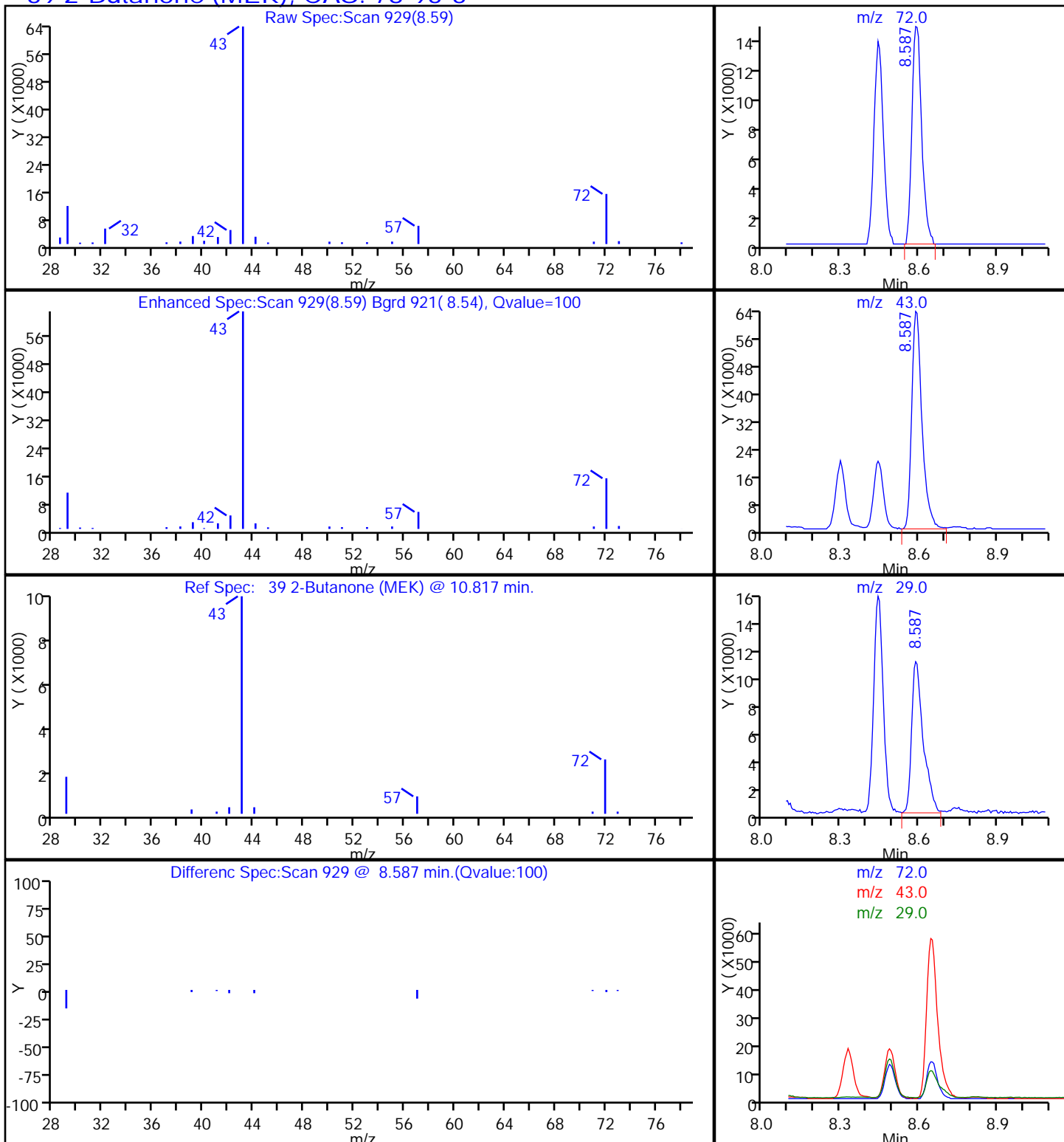
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

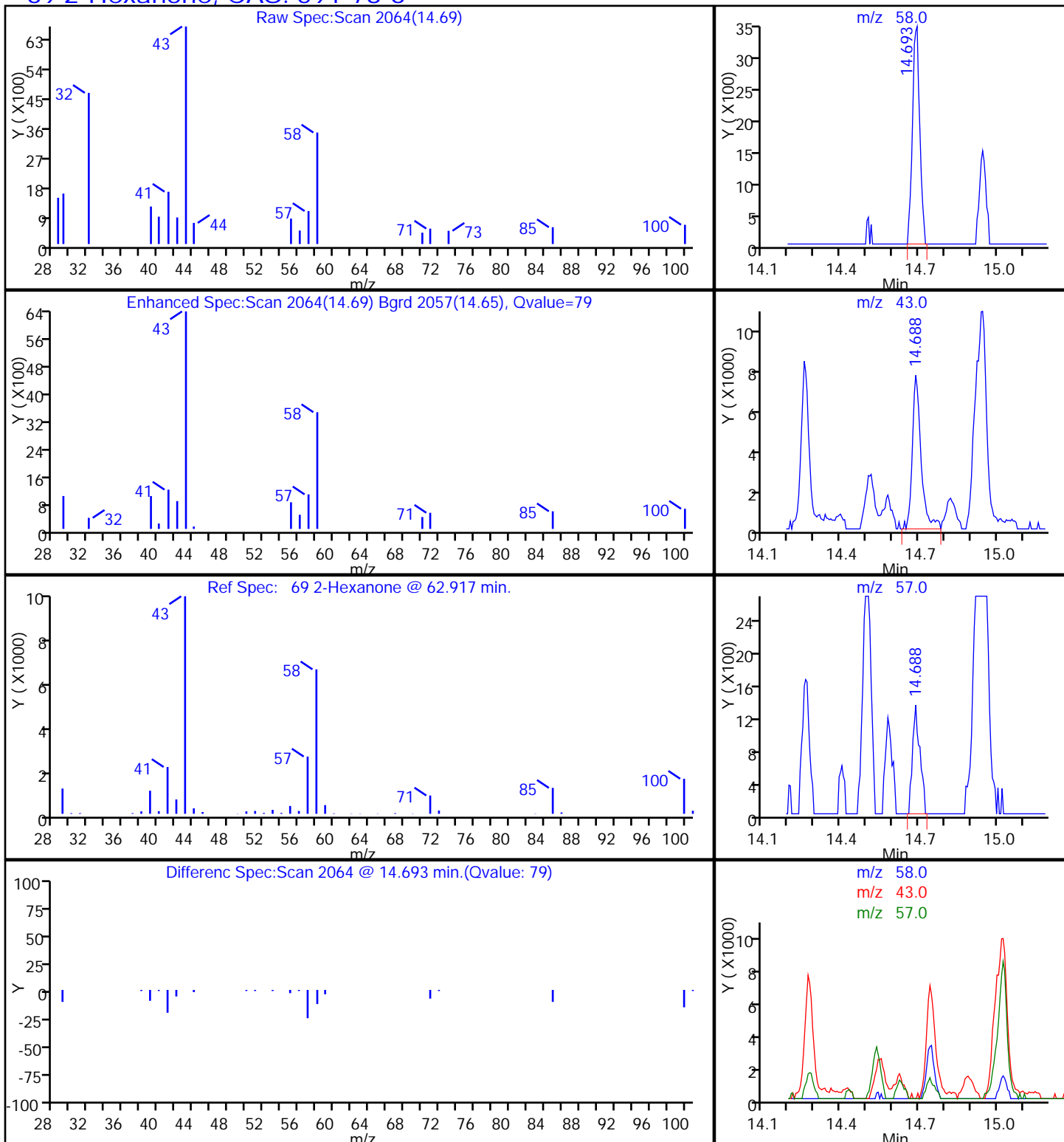
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

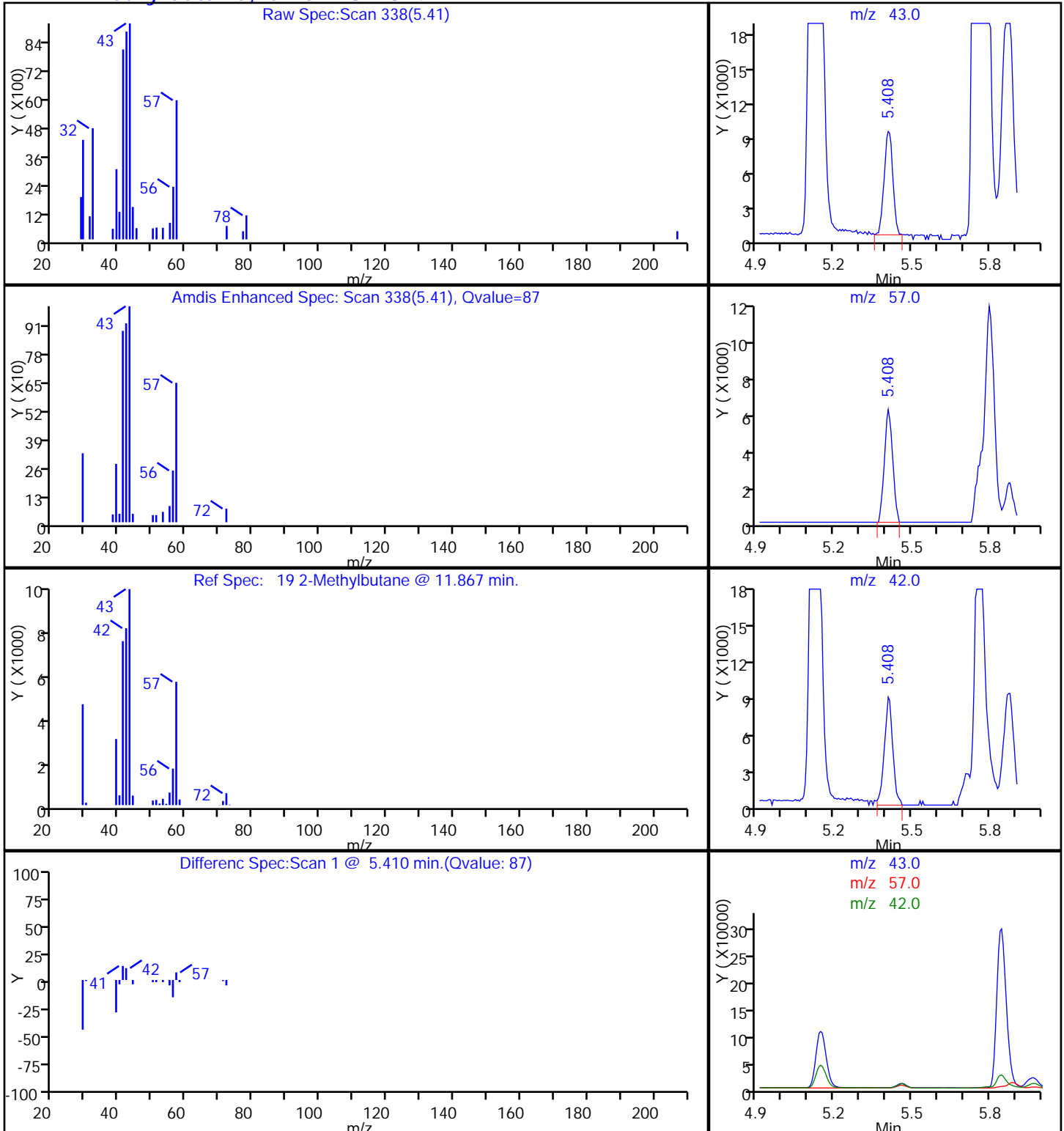
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

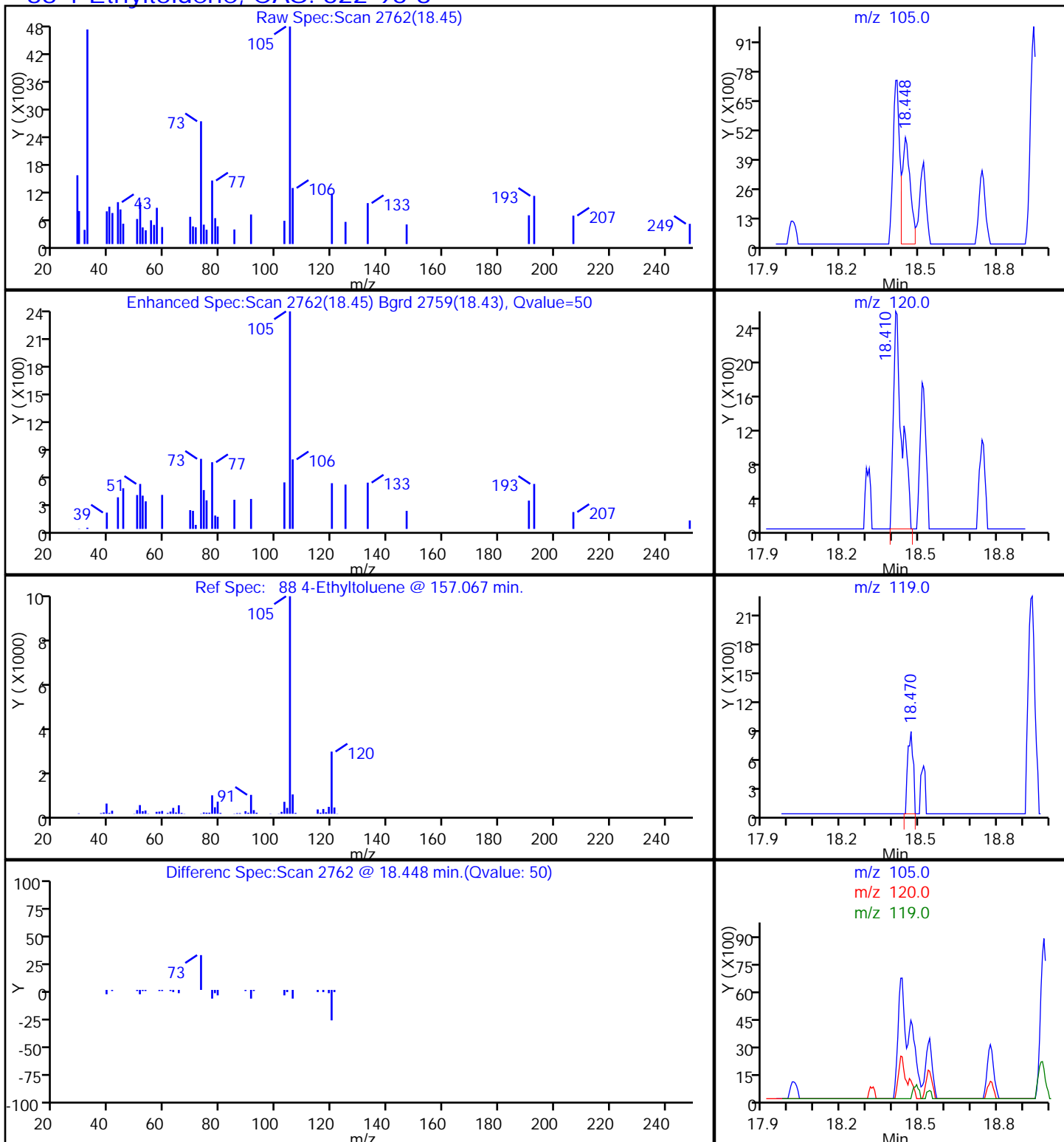
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

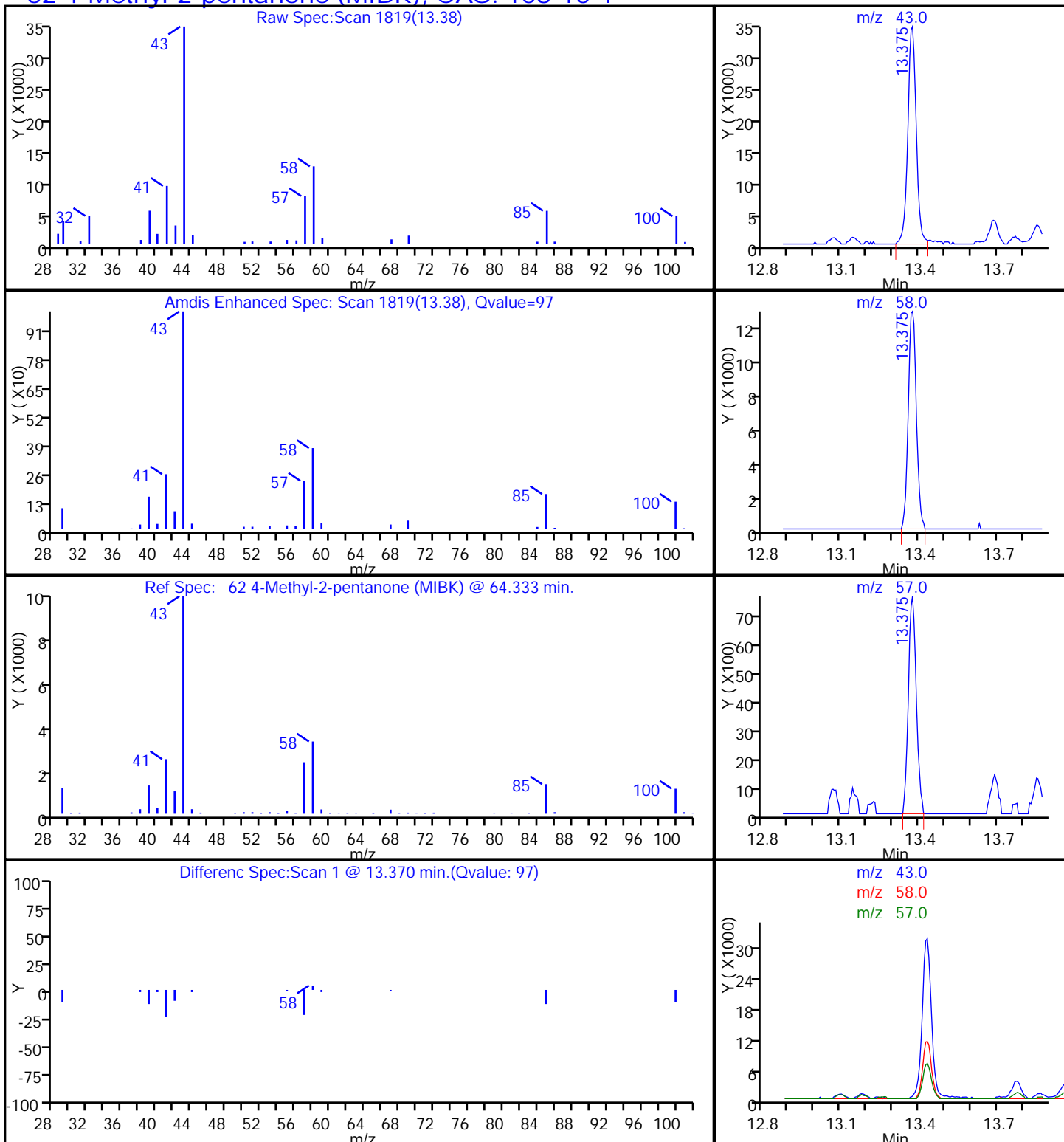
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

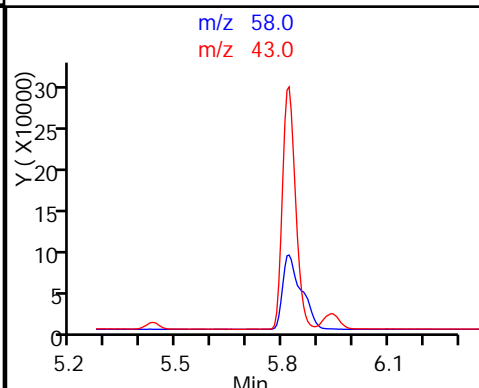
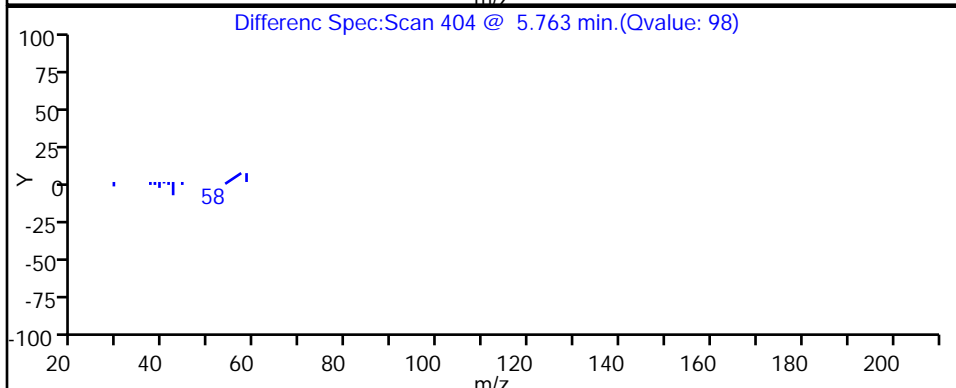
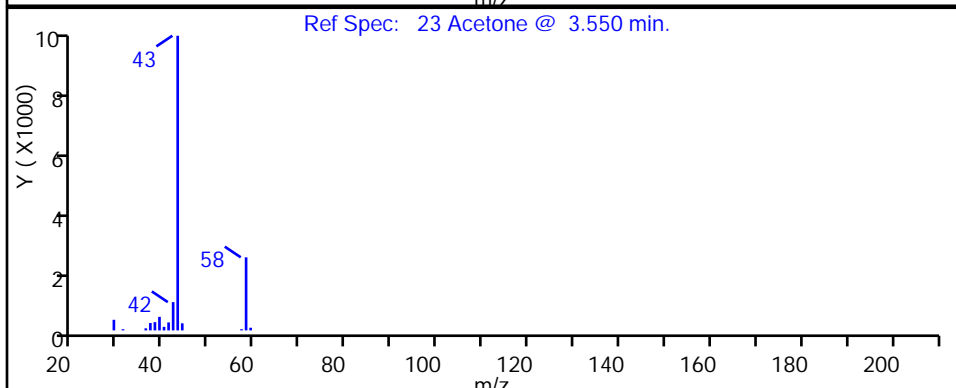
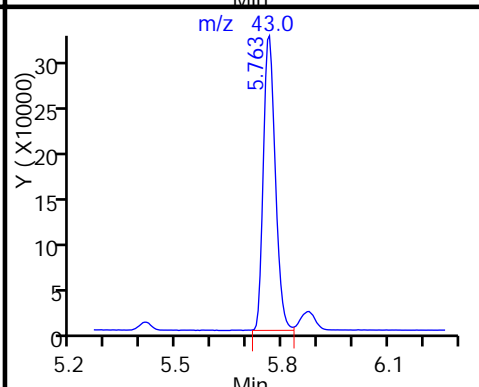
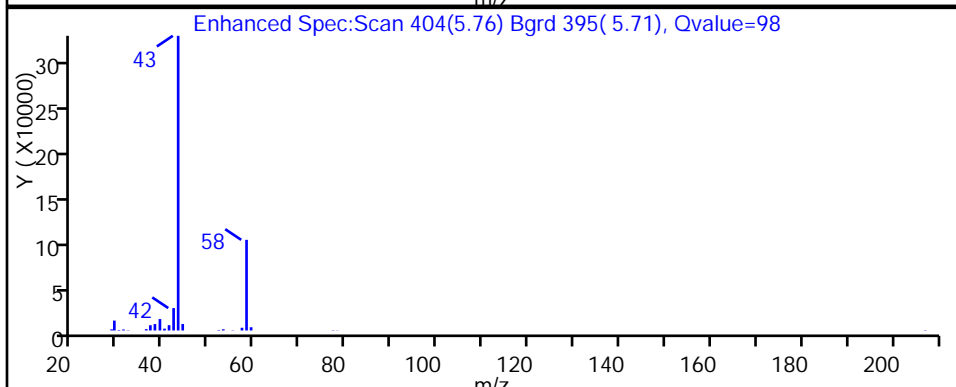
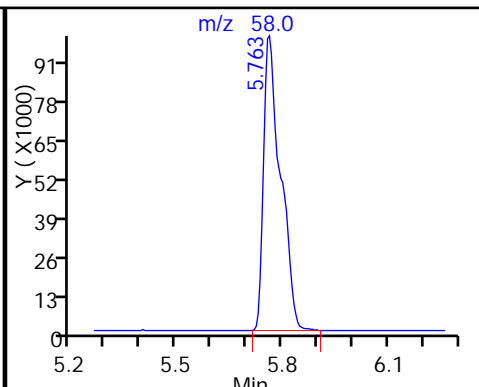
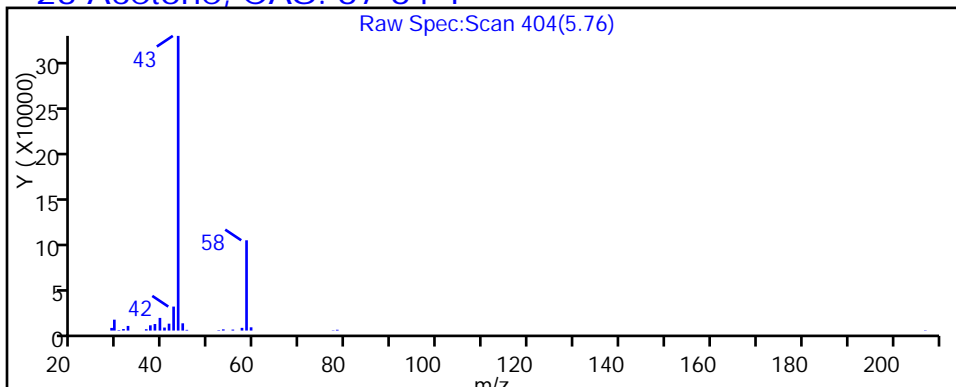
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

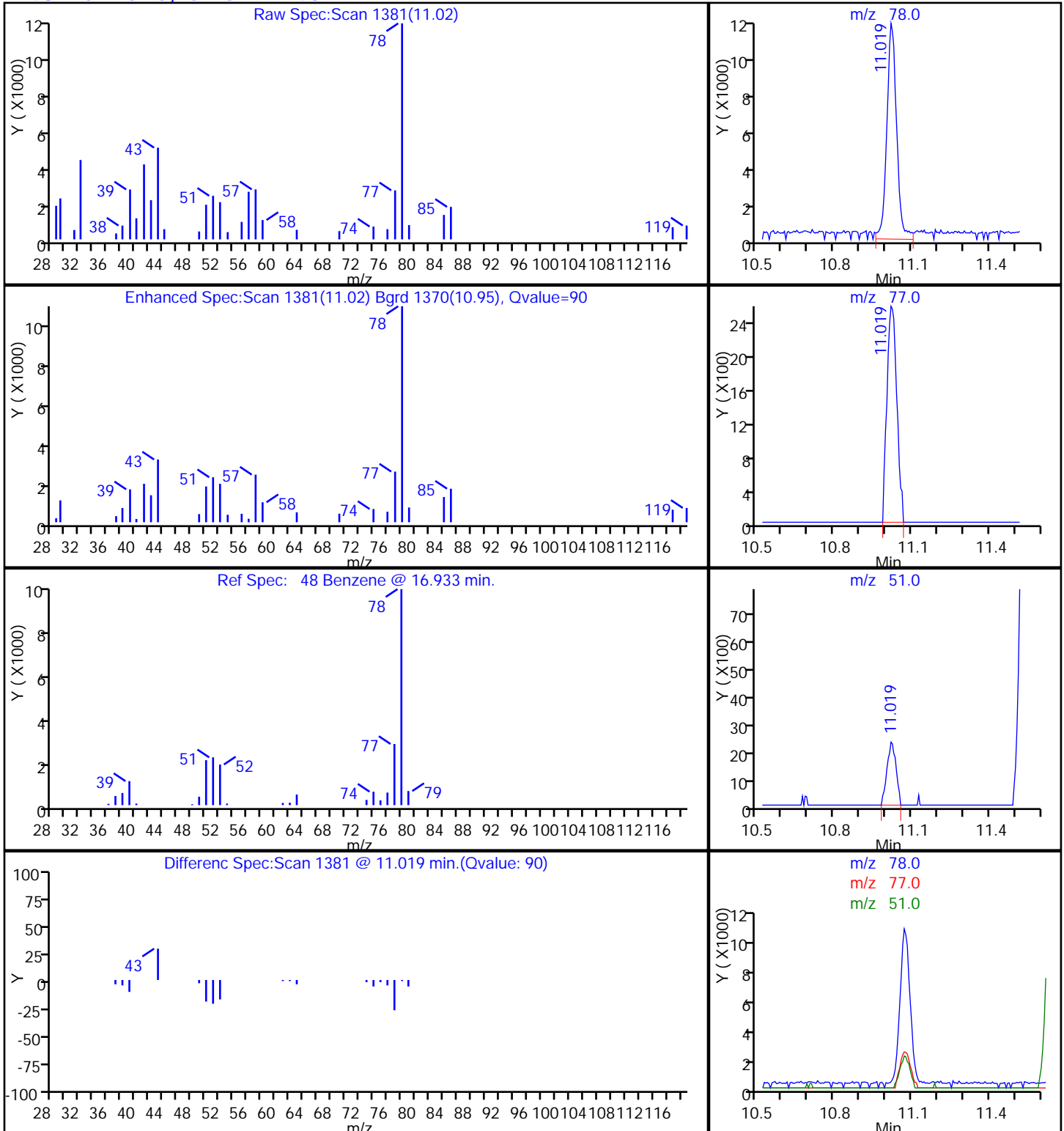
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

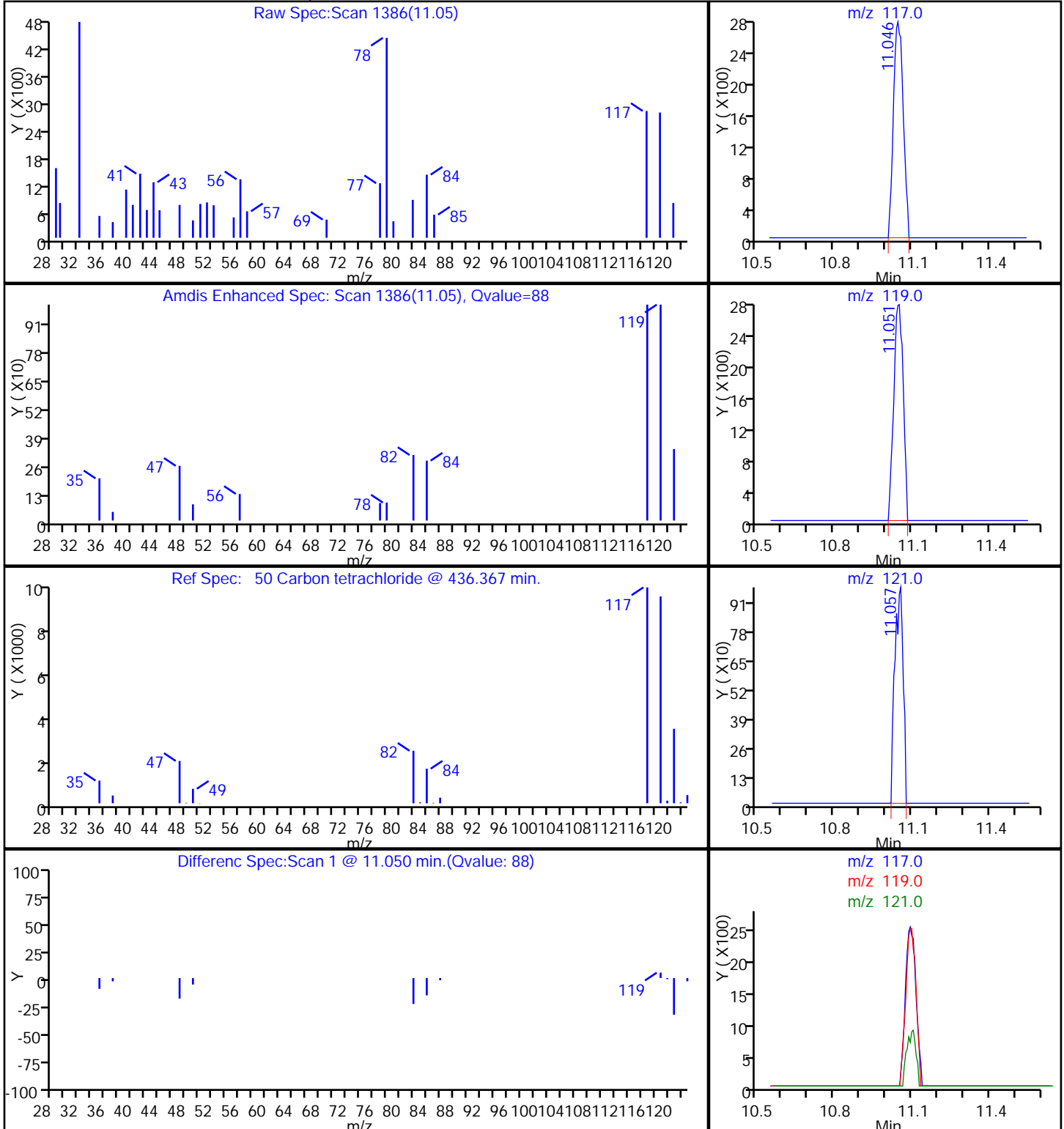
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

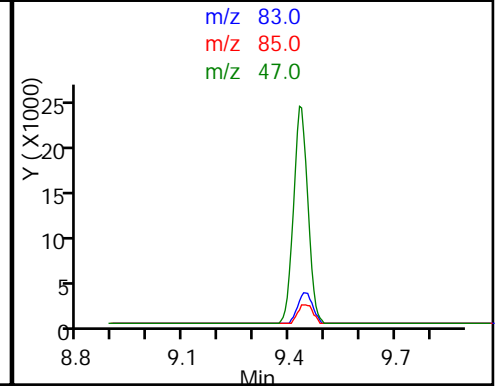
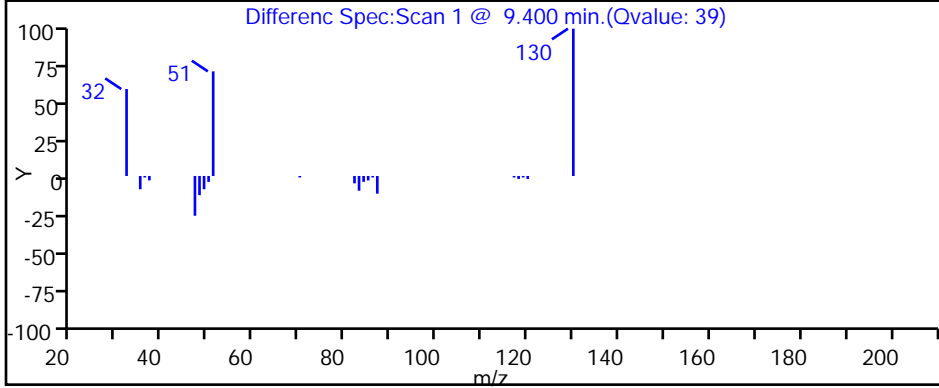
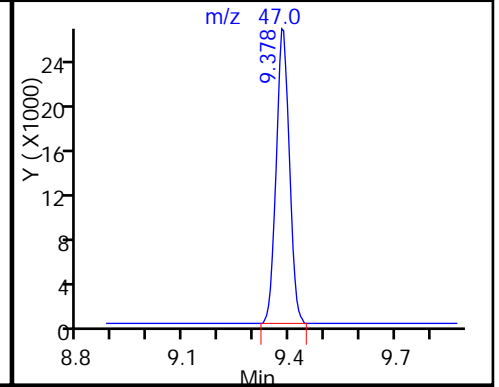
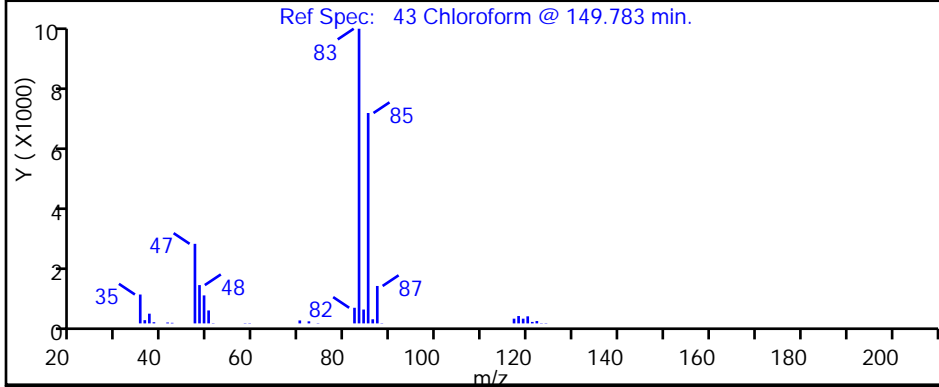
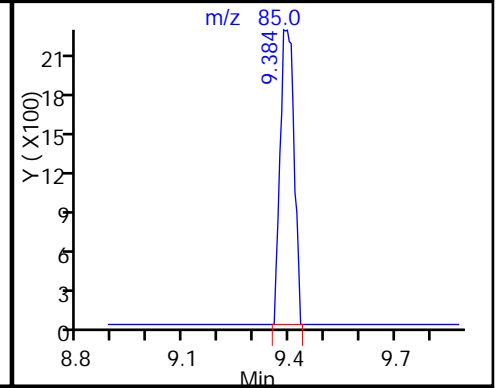
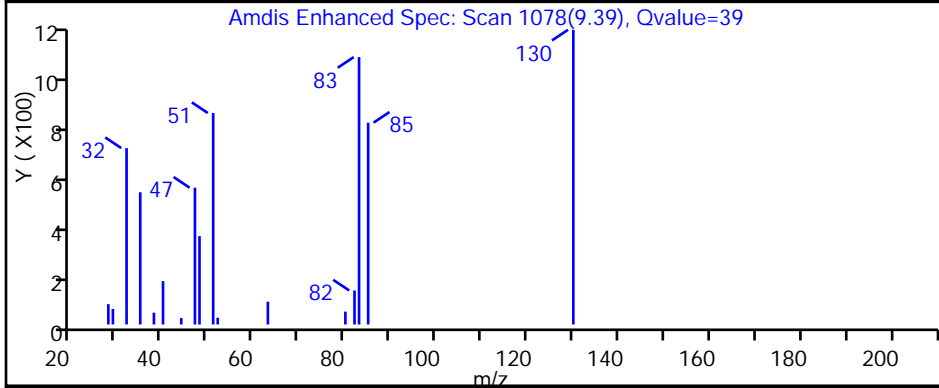
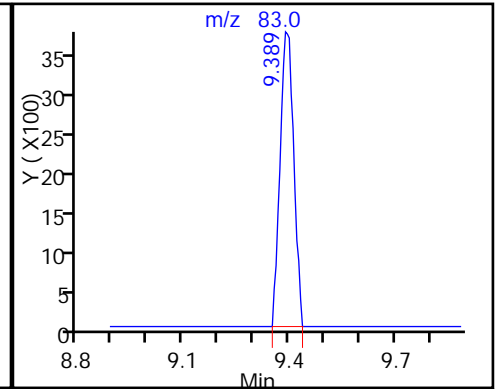
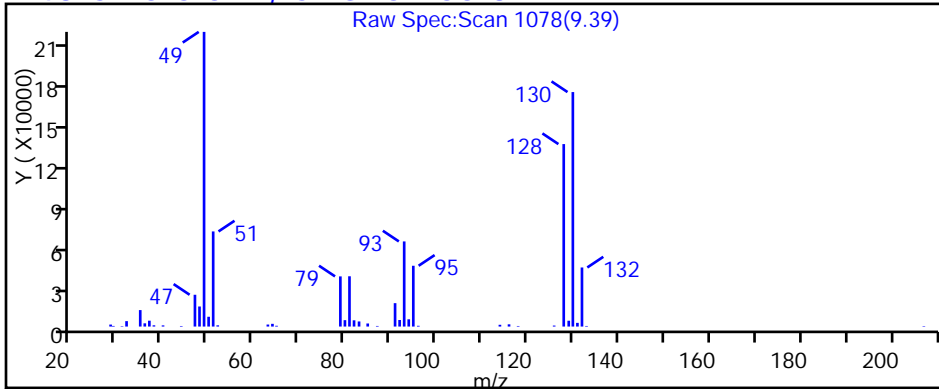
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

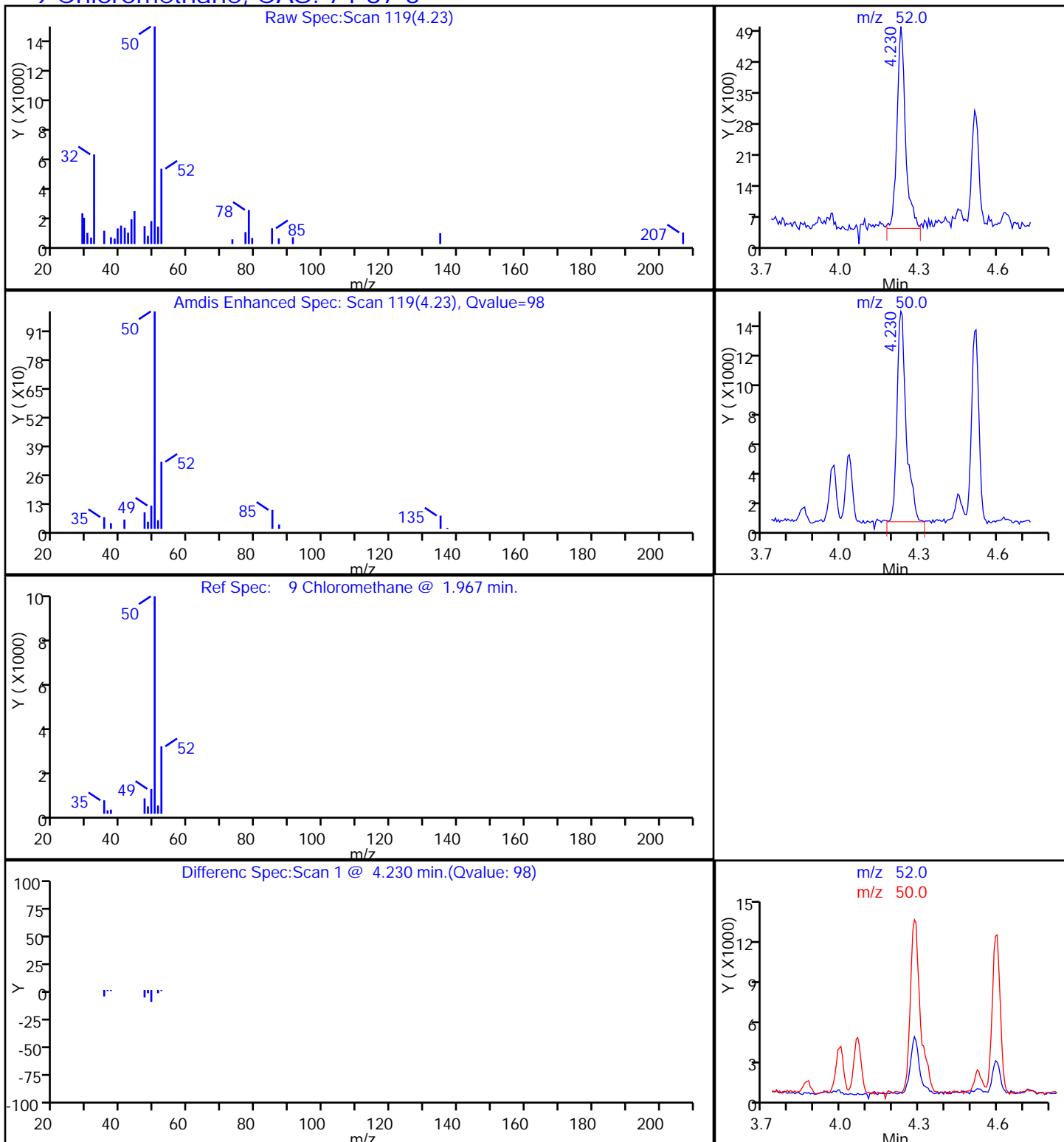
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

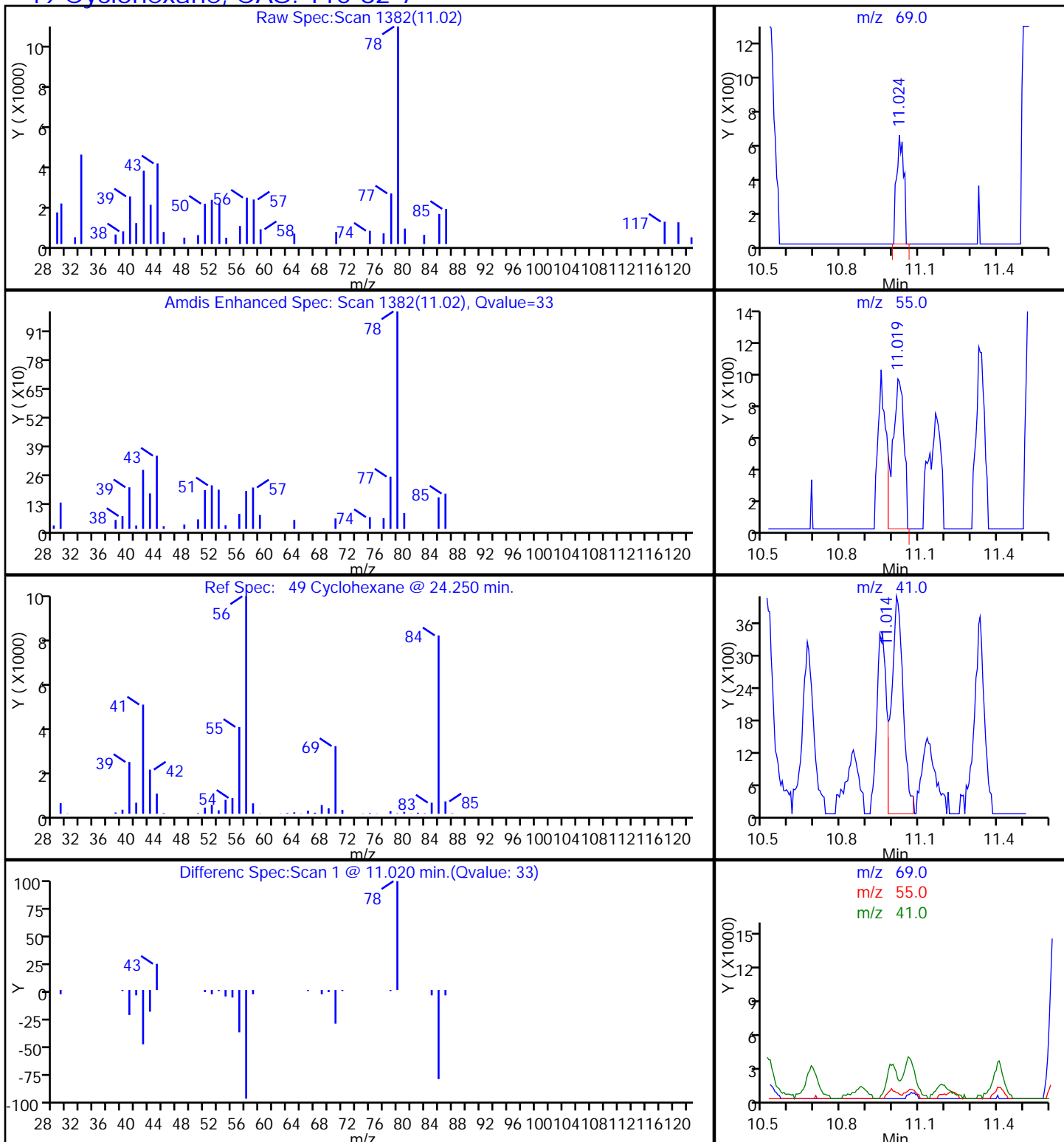
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

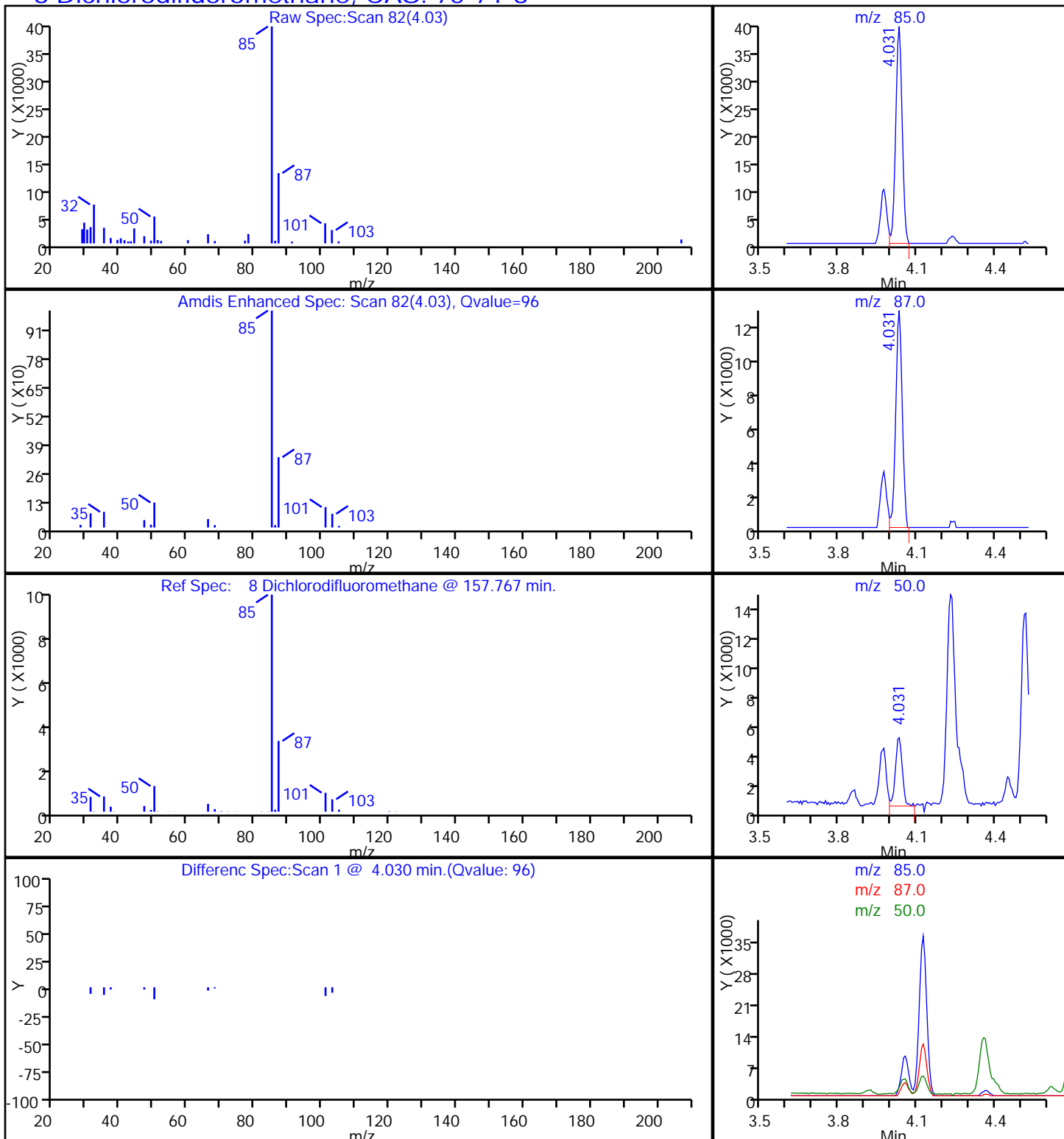
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

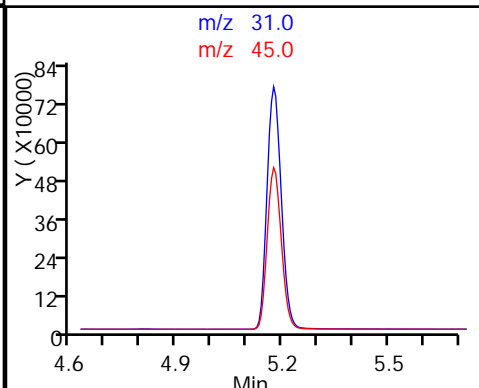
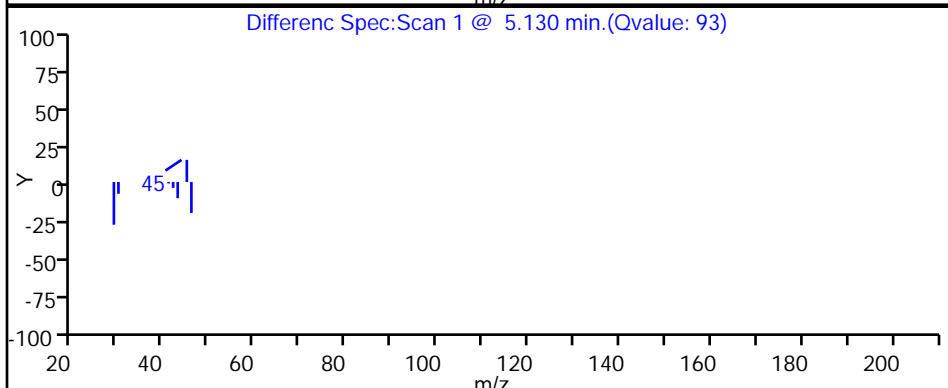
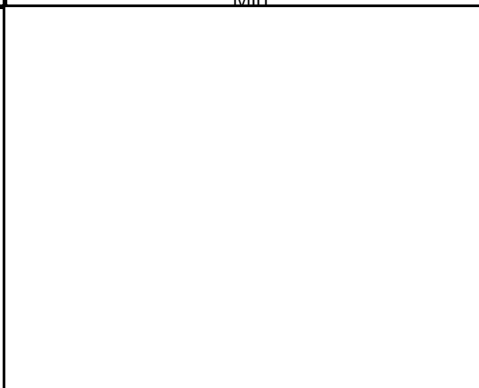
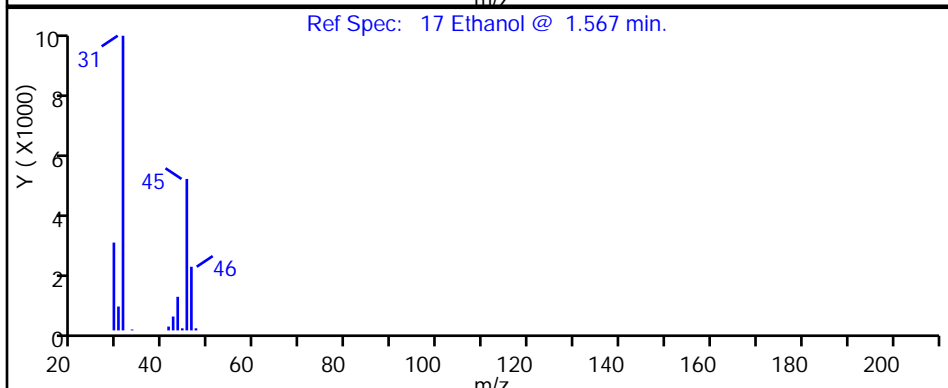
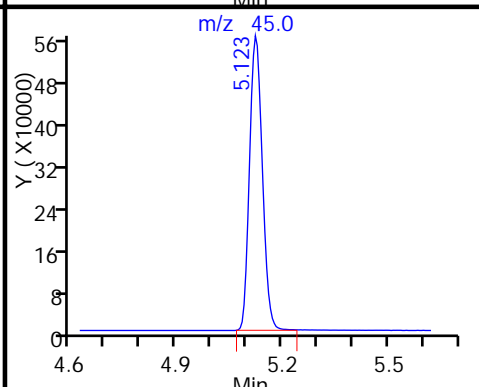
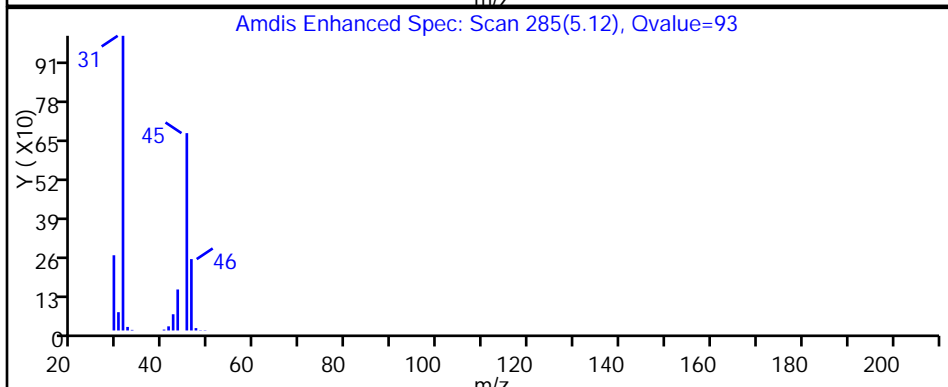
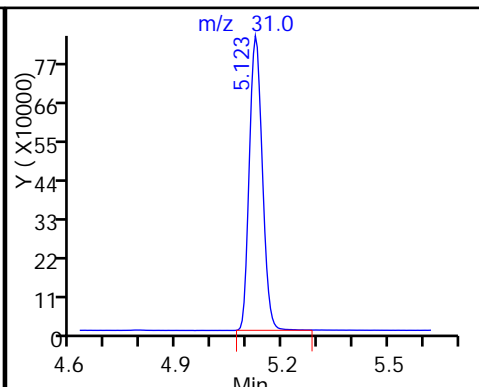
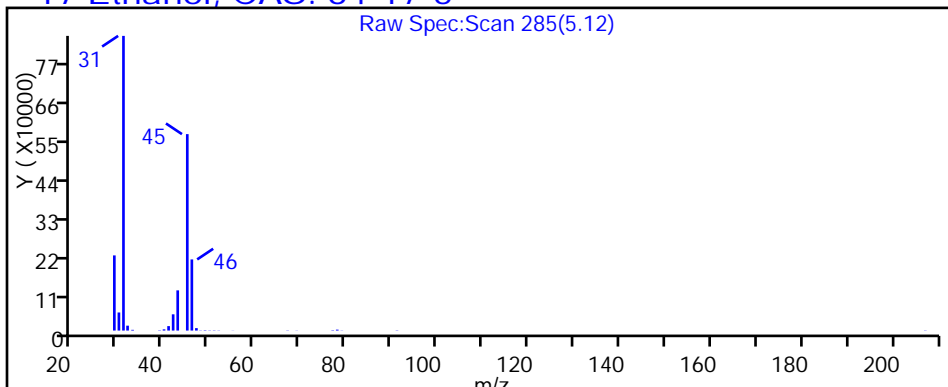
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

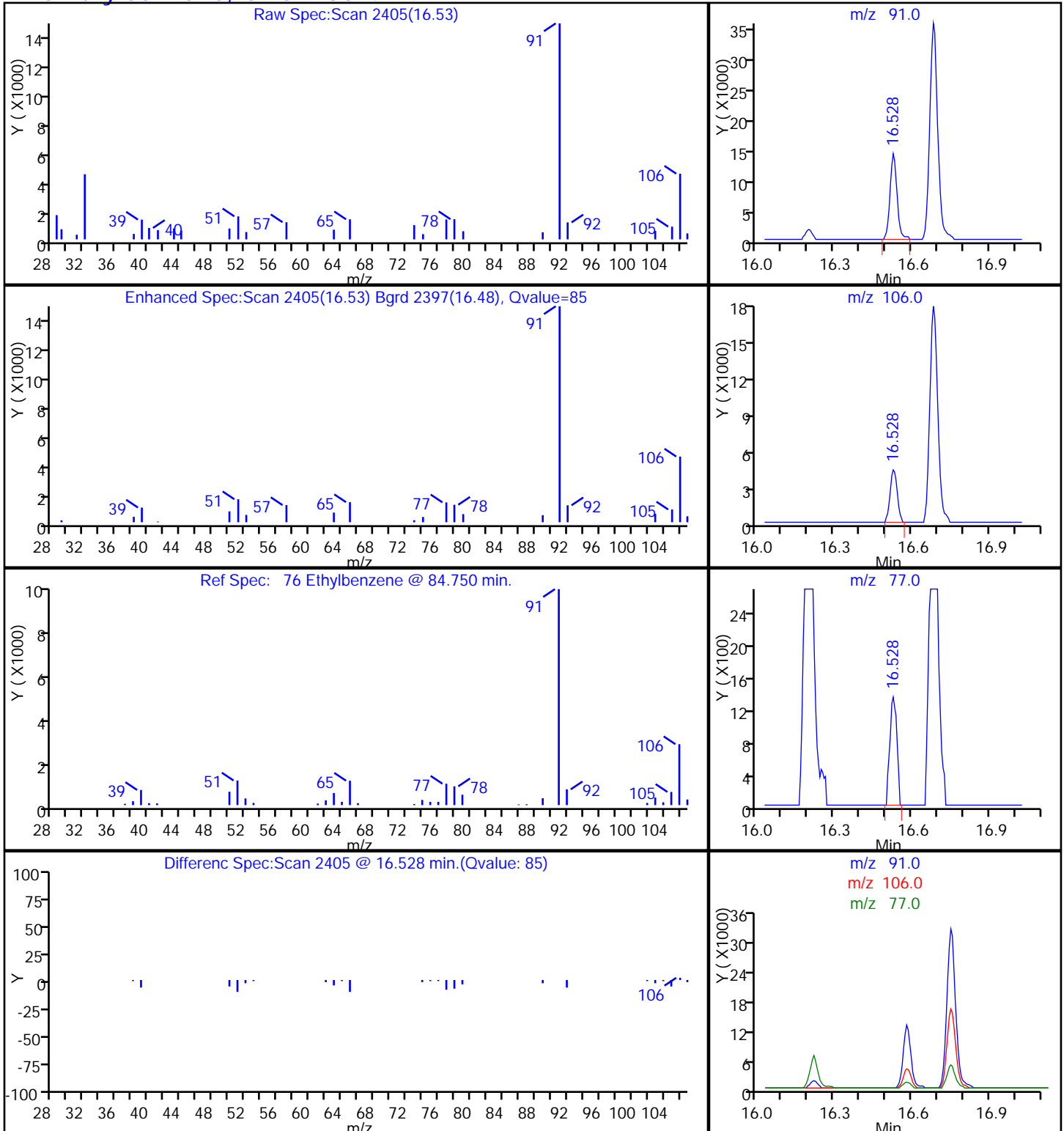
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

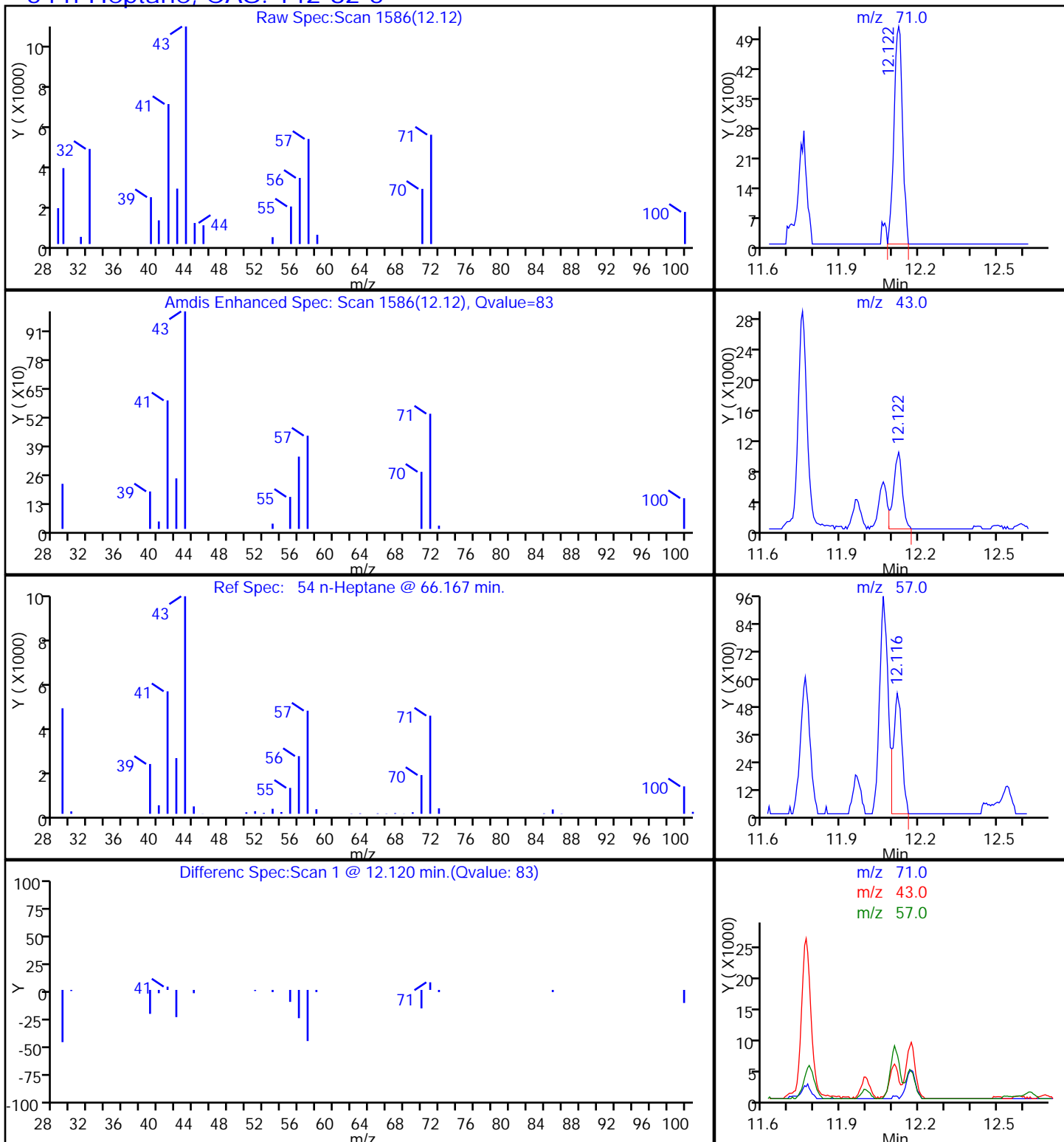
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

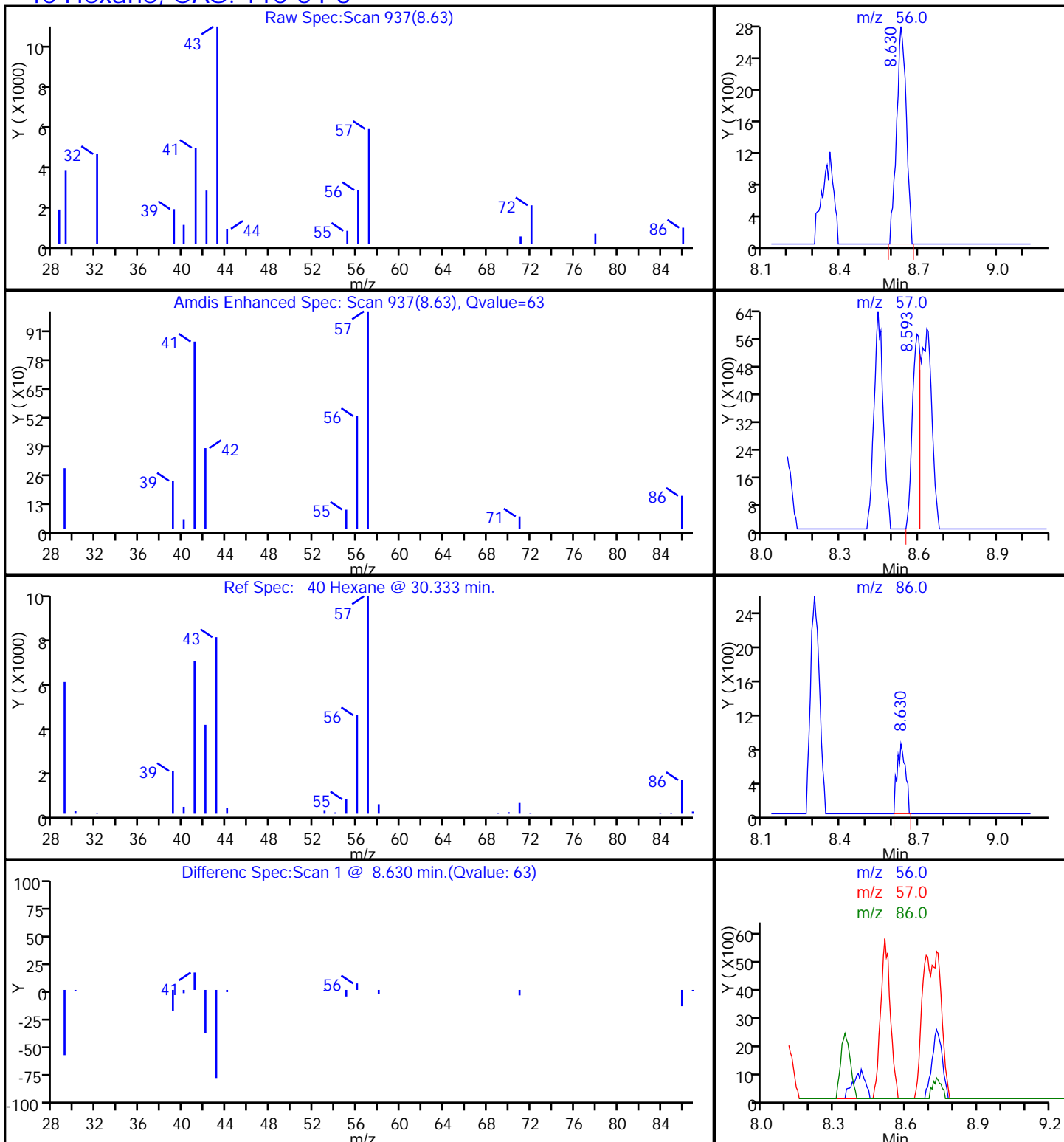
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

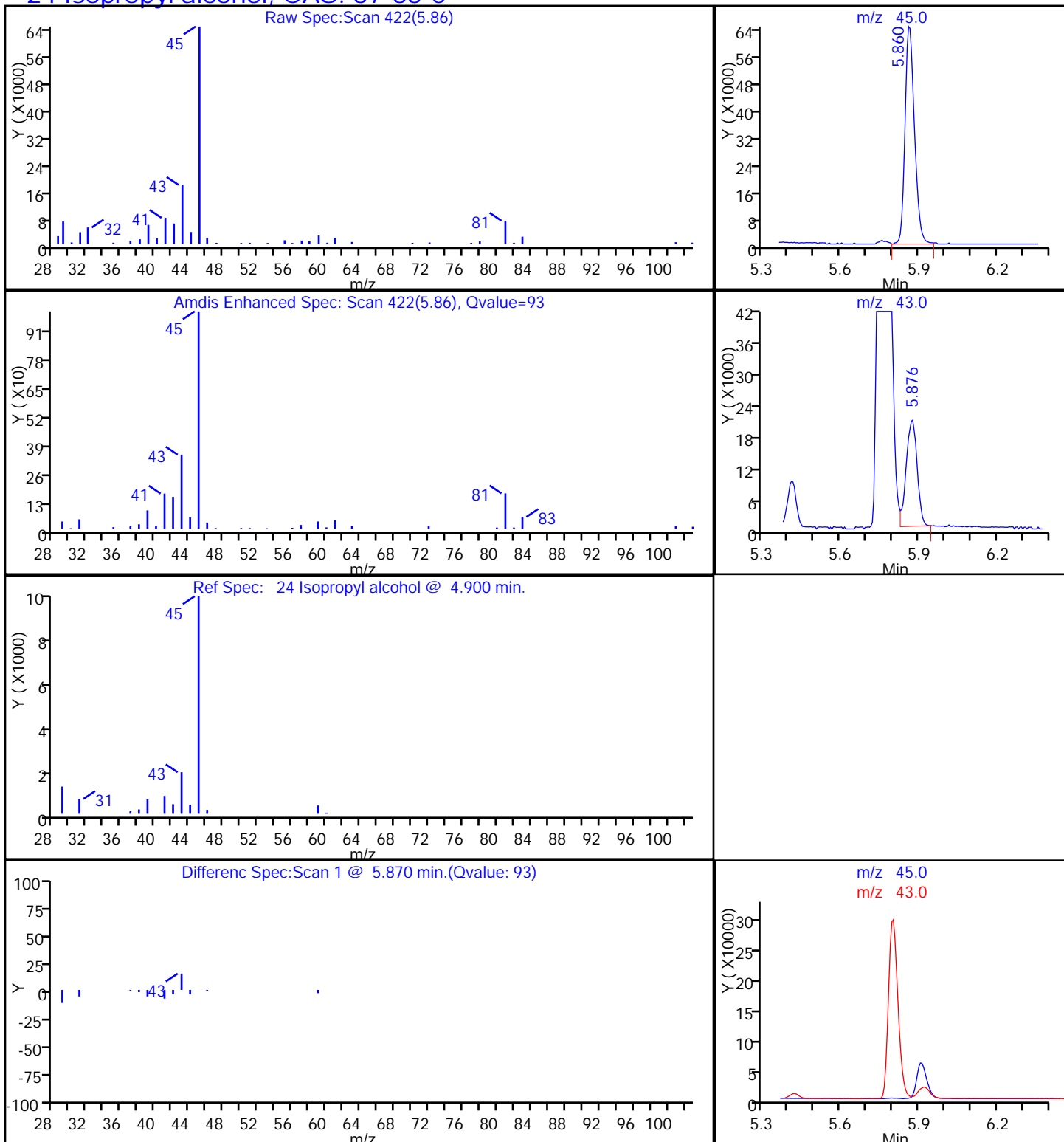
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

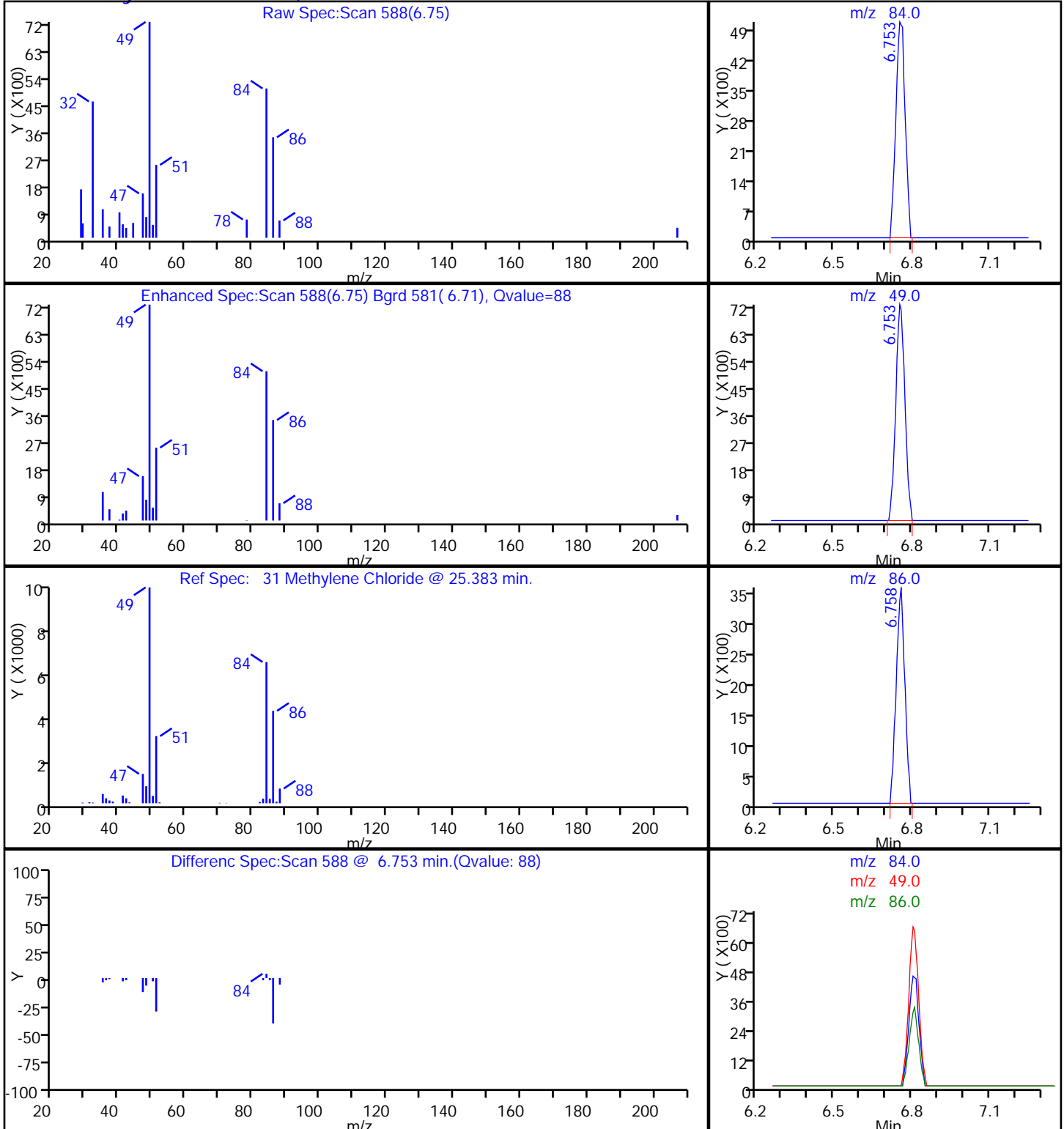
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

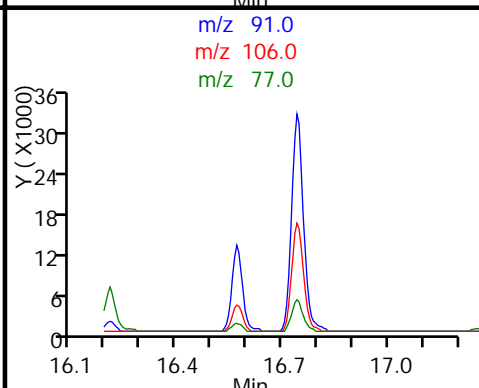
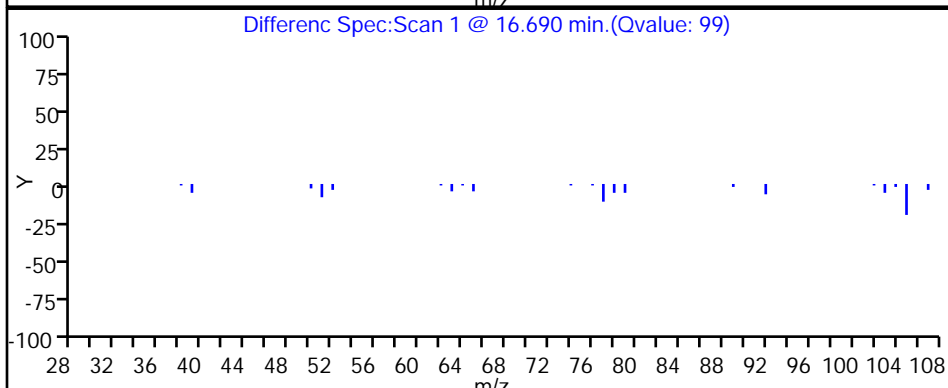
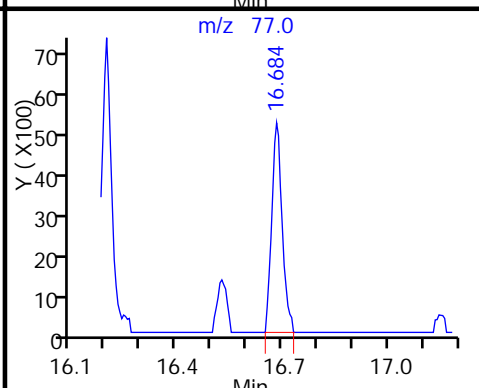
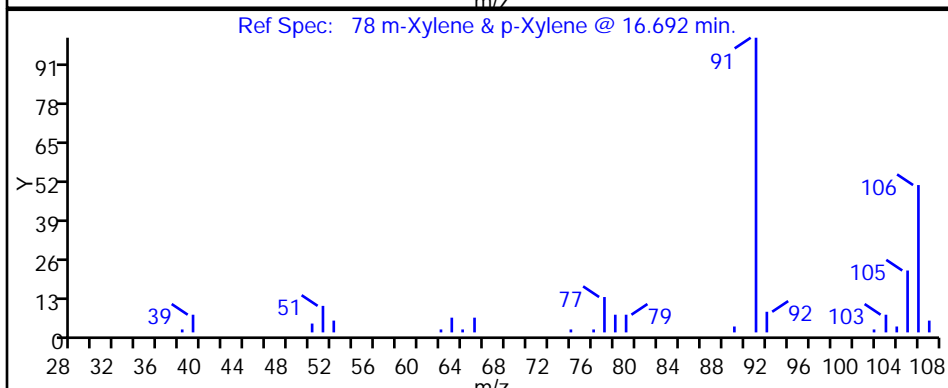
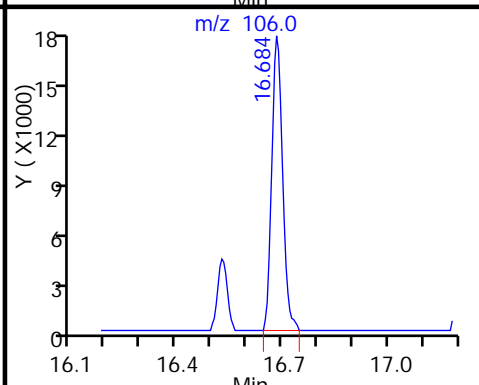
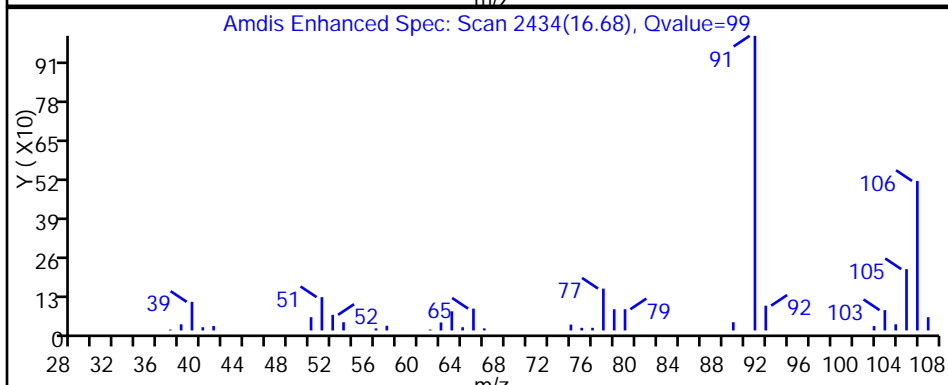
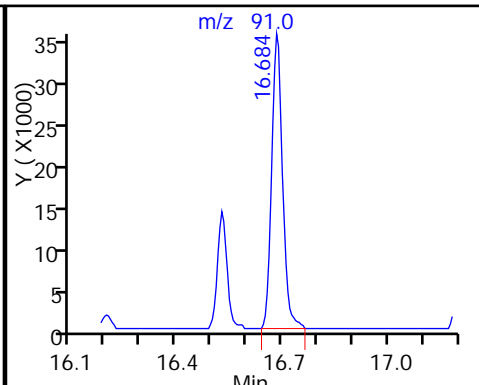
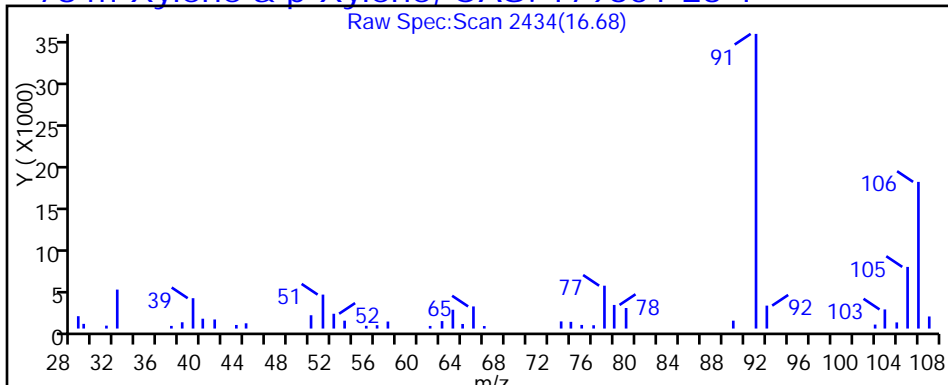
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

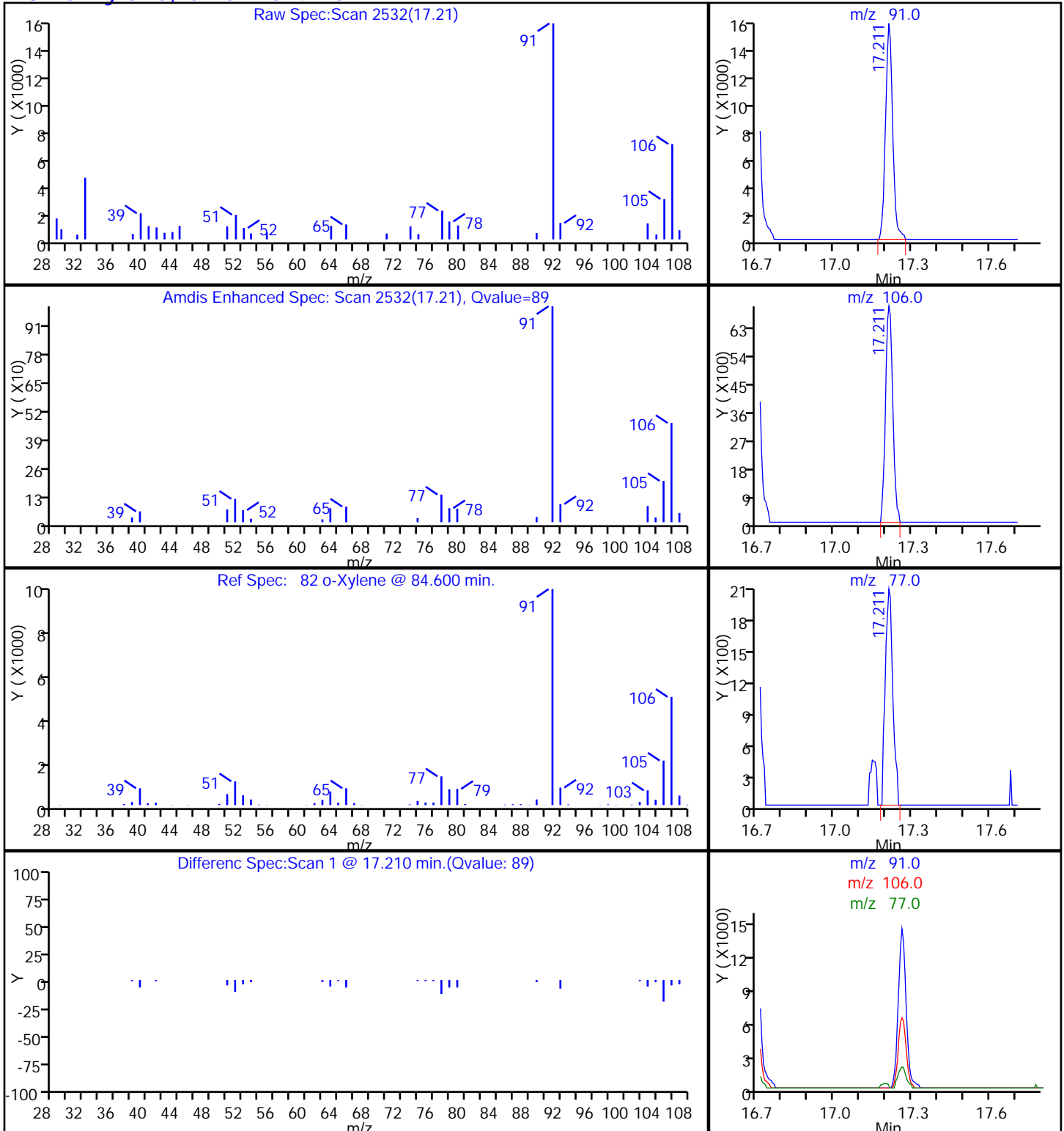
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

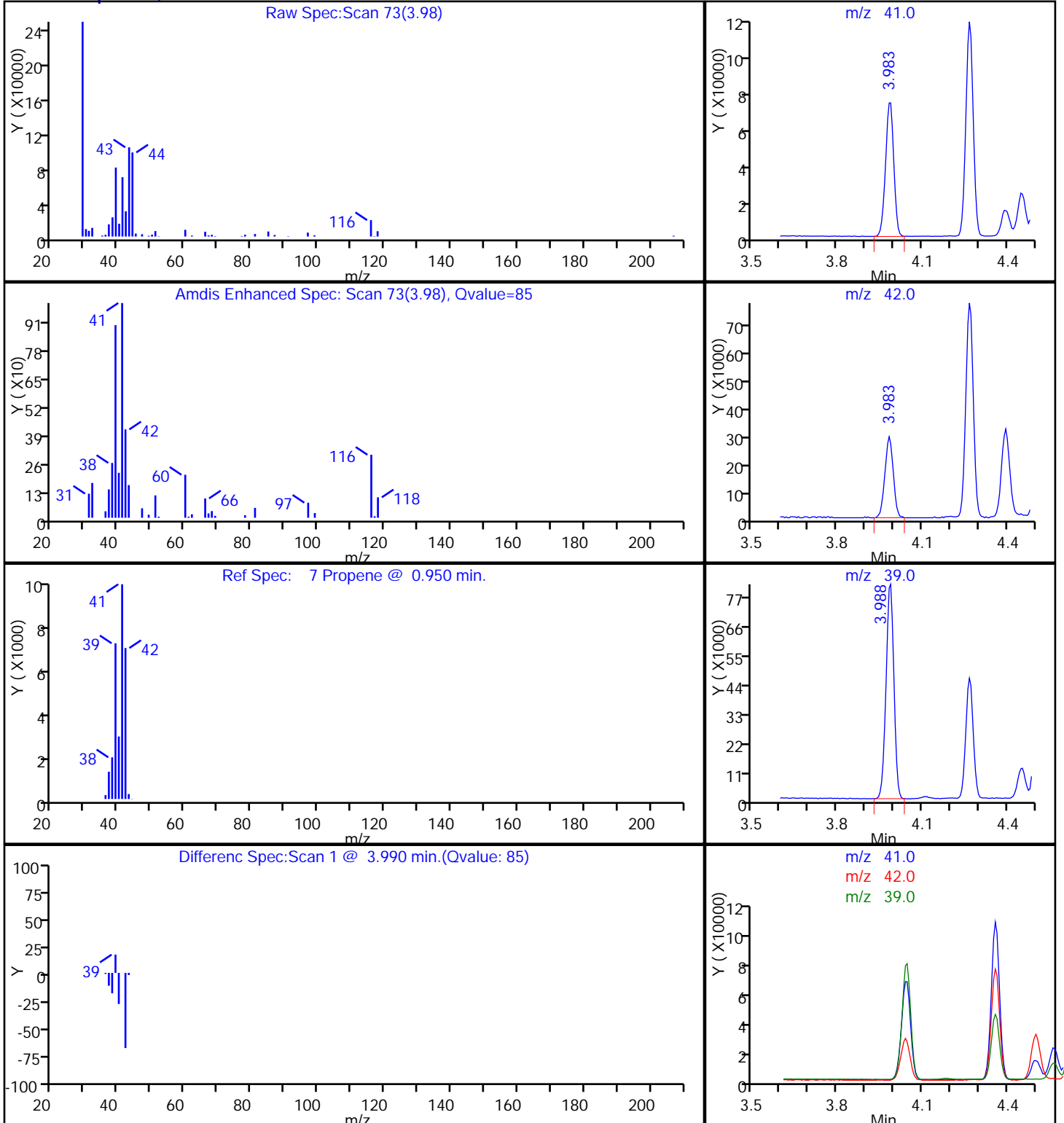
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

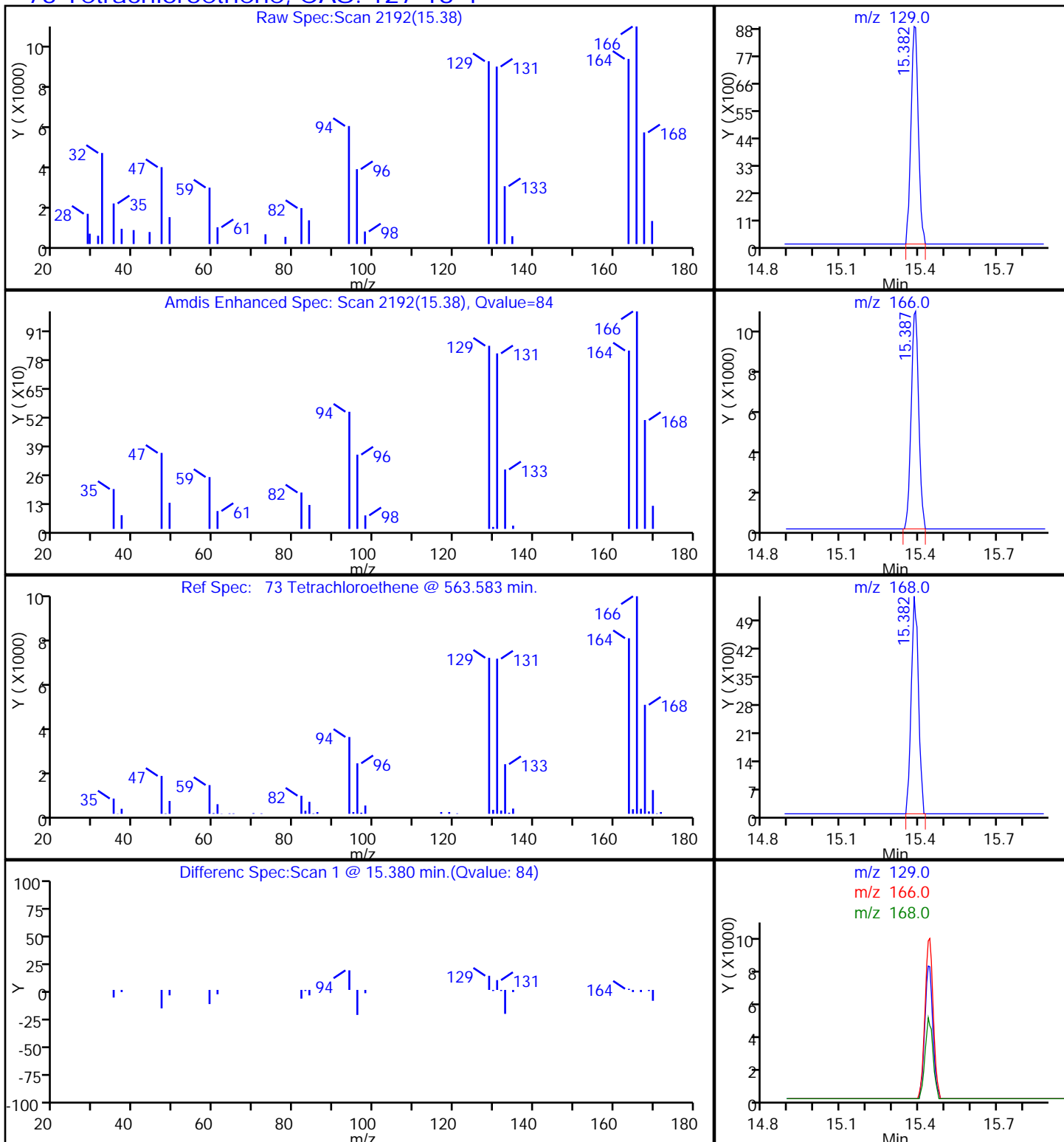
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

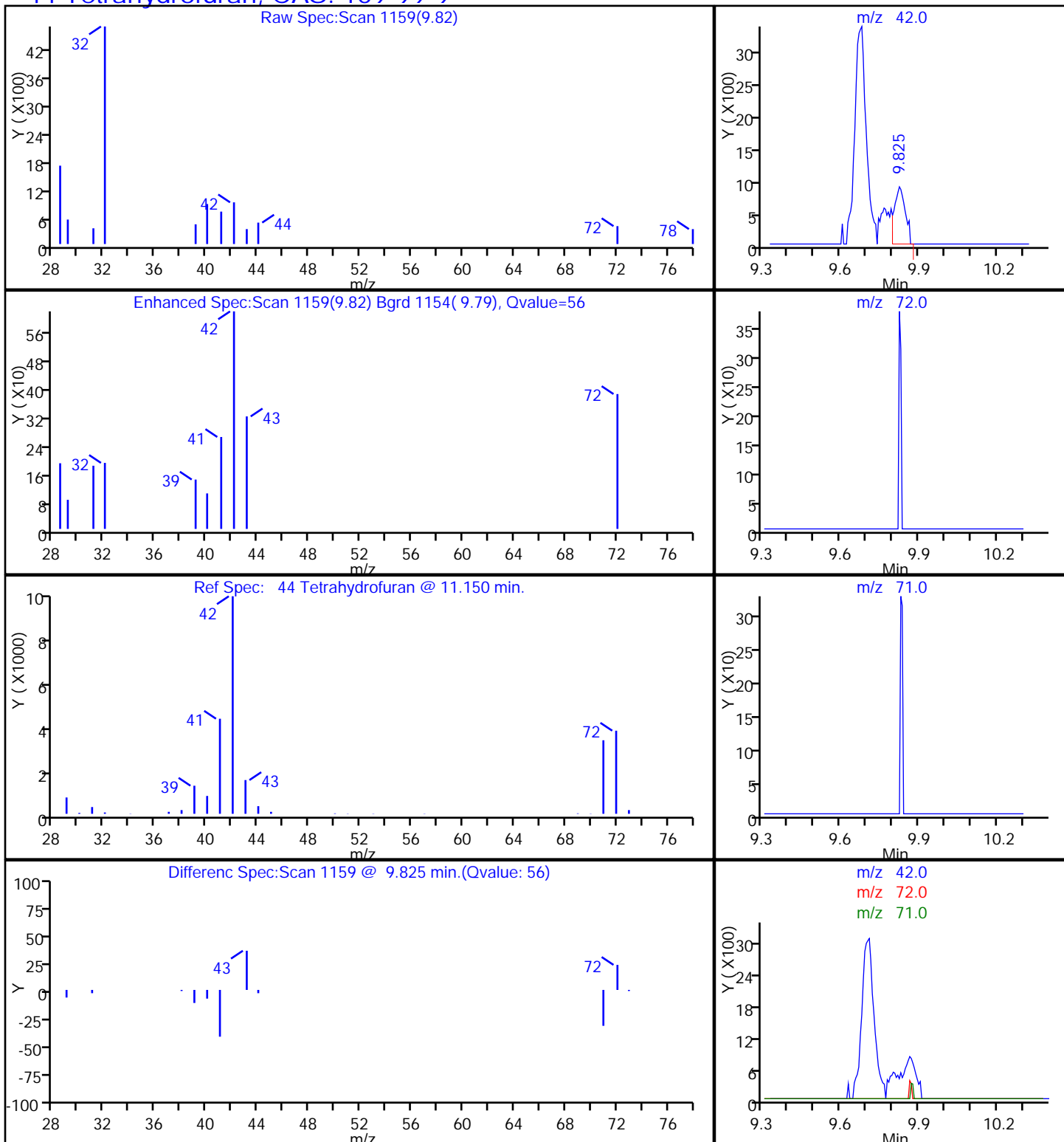
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

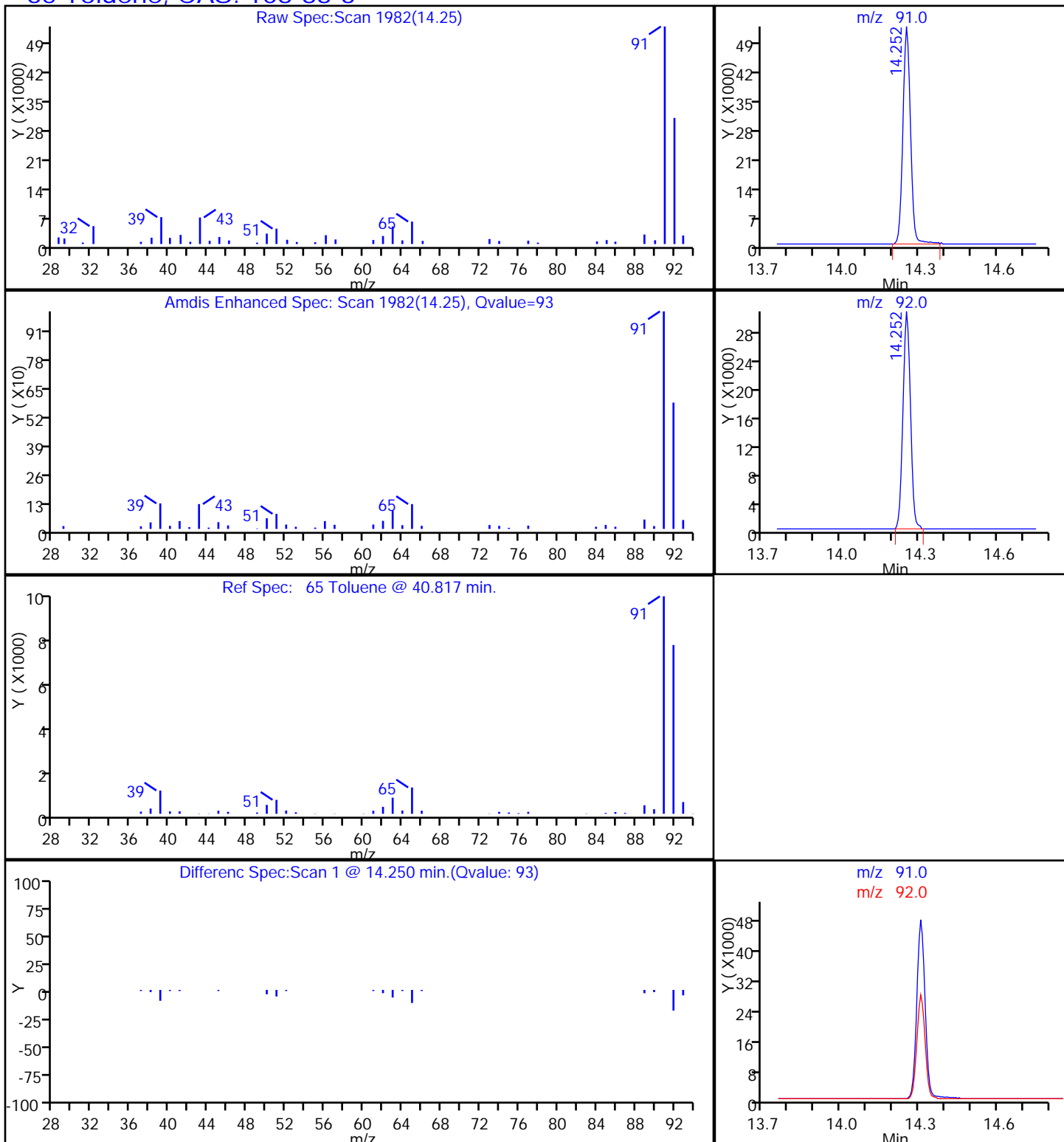
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P202.D

Injection Date: 18-Mar-2014 20:05:30

Instrument ID: MJ

Lims ID: 140-1063-A-15

Lab Sample ID: 140-1063-15

Client ID: IA3-E14

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.8400

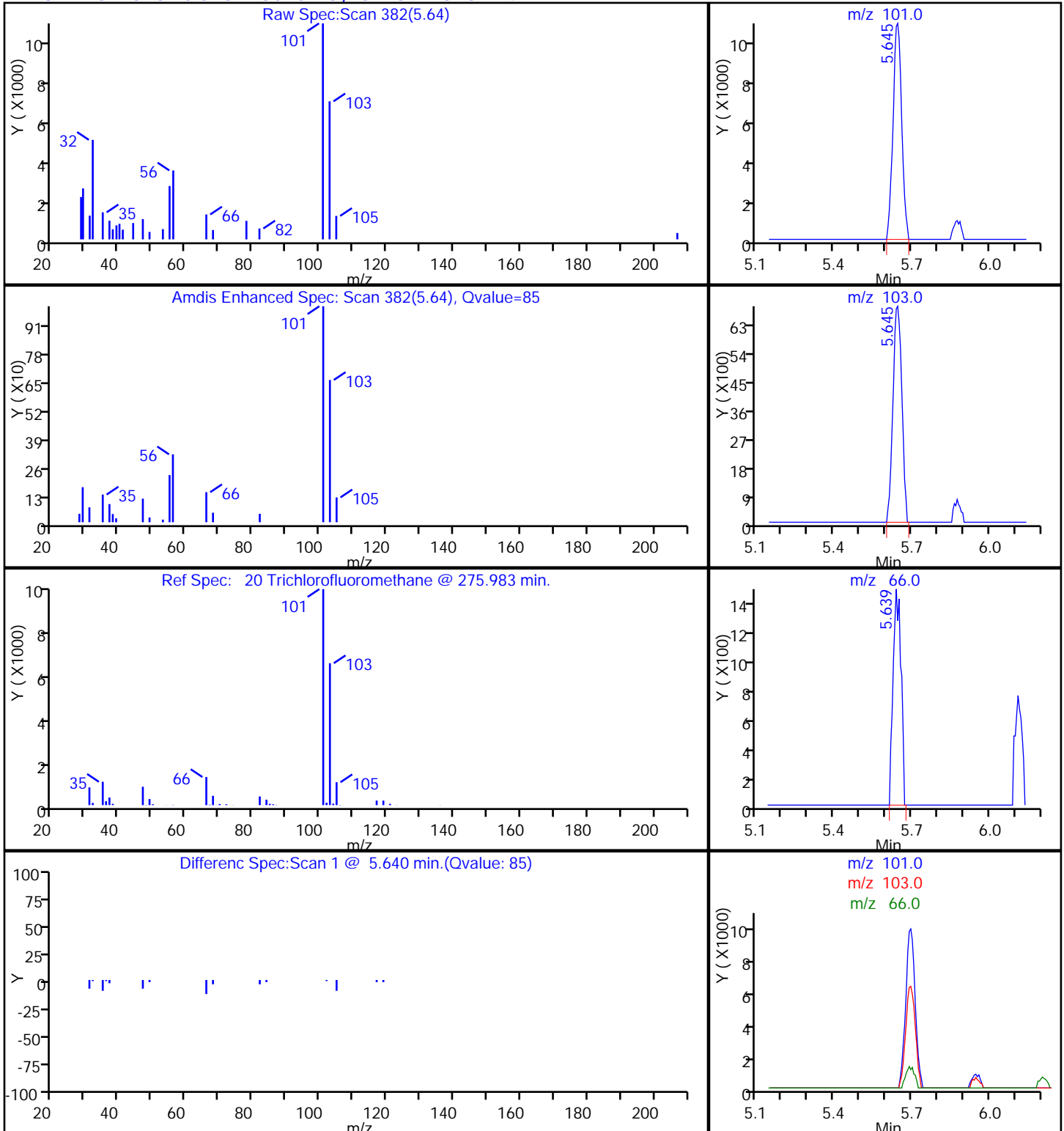
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16
 Matrix: Air Lab File ID: JC18P203.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.074	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.52		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.13	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	3.1		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	2.9		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.27		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.30	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.44	J	0.50	0.045
67-64-1	Acetone	58.08	270	E	5.0	1.4
71-43-2	Benzene	78.11	0.41		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.13	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16
 Matrix: Air Lab File ID: JC18P203.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.073	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.053	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.59		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.12	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	200	E	2.0	2.0
100-41-4	Ethylbenzene	106.17	4.6		0.20	0.068
142-82-5	Heptane	100.21	0.39	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.35	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.3		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	14		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	19		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	5.2		0.20	0.061
115-07-1	Propene	42.08	31	cn	0.50	0.077
100-42-5	Styrene	104.15	0.93		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	130	E	0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.057	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16
 Matrix: Air Lab File ID: JC18P203.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16
 Matrix: Air Lab File ID: JC18P203.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.57	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	2.5		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.66	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.68	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	9.2		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	8.5		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.94		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.5	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.8	J	2.0	0.18
67-64-1	Acetone	58.08	640	E	12	3.3
71-43-2	Benzene	78.11	1.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.39	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16
 Matrix: Air Lab File ID: JC18P203.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.46	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.26	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.42	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	390	E	3.8	3.8
100-41-4	Ethylbenzene	106.17	20		0.87	0.30
142-82-5	Heptane	100.21	1.6	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.2	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	10		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	50		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	81		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	23		0.87	0.26
115-07-1	Propene	42.08	53	cn	0.86	0.13
100-42-5	Styrene	104.15	4.0		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.0	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	500	E	0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.31	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 Lab Sample ID: 140-1063-16
 Matrix: Air Lab File ID: JC18P203.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D
 Lims ID: 140-1063-A-16 Lab Sample ID: 140-1063-16
 Client ID: PCV-IA1-B5
 Sample Type: Client
 Inject. Date: 18-Mar-2014 21:00:30 ALS Bottle#: 3 Worklist Smp#: 24
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-16
 Misc. Info.: J031814,TO15,,140-0000527-024
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 13:03:04 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 12:08:02

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.388	0.005	90	342541	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	94	1565611	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.198	0.005	87	1280677	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	872985	3.85	
7 Propene	41	3.987	3.971	0.016	67	1301333	12.4	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	59647	0.1758	
9 Chloromethane	52	4.229	4.229	0.0	96	9158	0.2376	M
17 Ethanol	31	5.132	5.116	0.016	93	2254102	82.0	E
19 2-Methylbutane	43	5.412	5.407	0.005	92	167364	1.15	
20 Trichlorofluoromethane	101	5.649	5.644	0.005	88	26391	0.0885	
23 Acetone	58	5.762	5.767	-0.005	95	5282794	108.5	E
24 Isopropyl alcohol	45	5.869	5.848	0.021	71	219644	1.71	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.585	6.580	0.005	52	6104	0.0296	
31 Methylene Chloride	84	6.768	6.757	0.011	96	527076	5.75	
33 Carbon disulfide	76	6.940	6.935	0.005	97	16218	0.0503	
35 2-Methylpentane	43	7.623	7.623	0.0	92	28194	0.1067	
39 2-Butanone (MEK)	72	8.597	8.586	0.011	100	40517	1.25	
40 Hexane	56	8.634	8.635	-0.001	88	12784	0.1388	
43 Chloroform	83	9.409	9.393	0.016	4	4248	0.0213	
48 Benzene	78	11.028	11.023	0.005	95	44016	0.1639	
49 Cyclohexane	69	11.028	11.034	-0.006	39	2579	0.0487	
50 Carbon tetrachloride	117	11.055	11.050	0.005	87	6455	0.0291	
53 Isooctane	57	11.765	11.760	0.005	83	26650	0.0581	
54 n-Heptane	71	12.120	12.120	0.0	83	14842	0.1562	
56 Trichloroethene	130	12.244	12.244	0.0	44	2993	0.0230	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.368	0.011	88	29001	0.1767	
65 Toluene	91	14.256	14.256	0.0	94	12699298	53.5	E
73 Tetrachloroethene	129	15.380	15.386	-0.006	84	6786	0.0613	
76 Ethylbenzene	91	16.531	16.532	-0.001	98	479803	1.83	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	99	1576673	7.45	
80 Styrene	104	17.150	17.150	0.0	98	53996	0.3713	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
82 o-Xylene	91	17.215	17.215	0.0	99	444969	2.07	
88 4-Ethyltoluene	105	18.452	18.447	0.005	62	34415	0.1207	
89 1,3,5-Trimethylbenzene	120	18.517	18.517	0.0	81	7689	0.0536	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	96	51280	0.2062	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Worklist Smp#: 24

Client ID: PCV-IA1-B5

Purge Vol: 500.000 mL

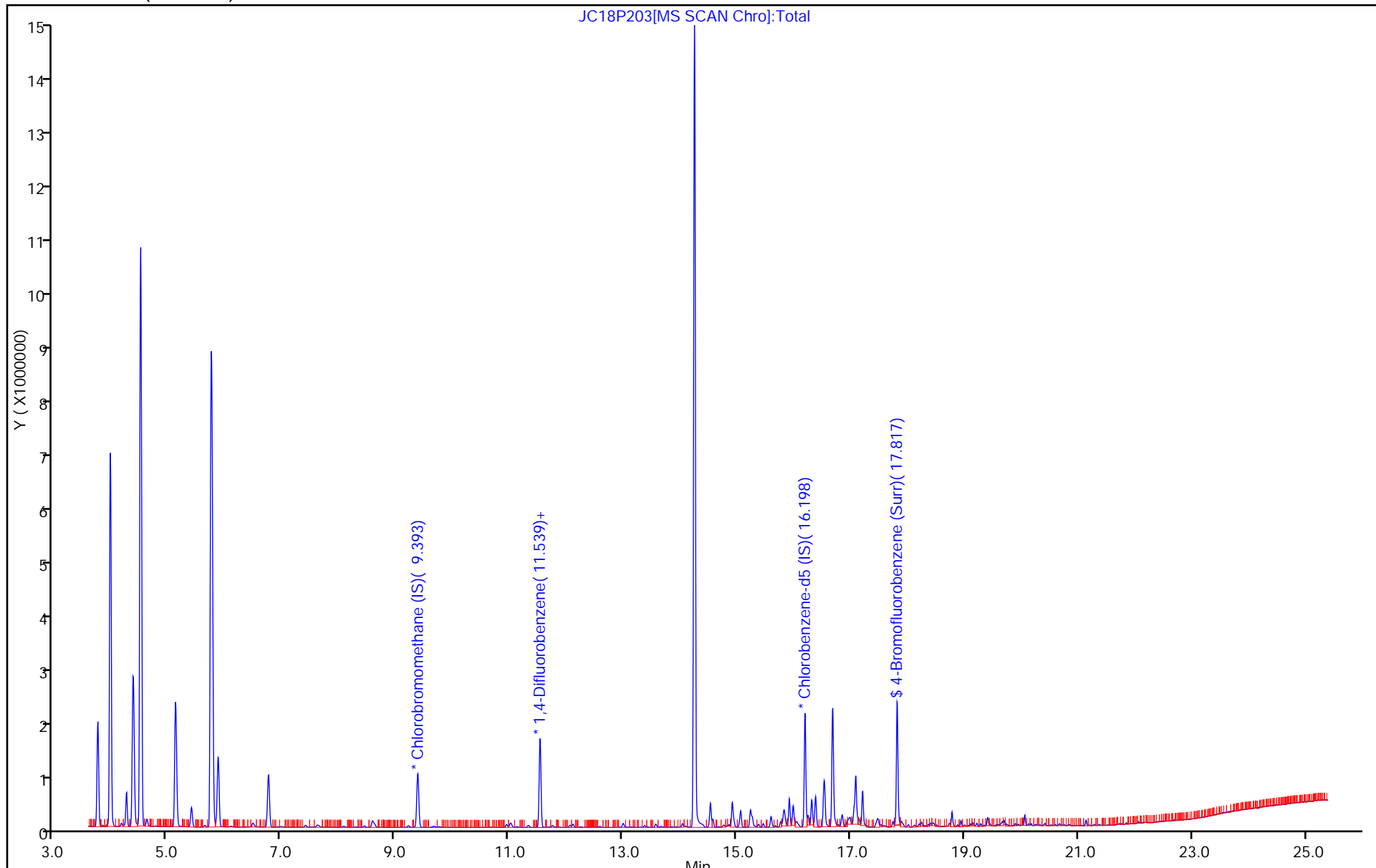
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

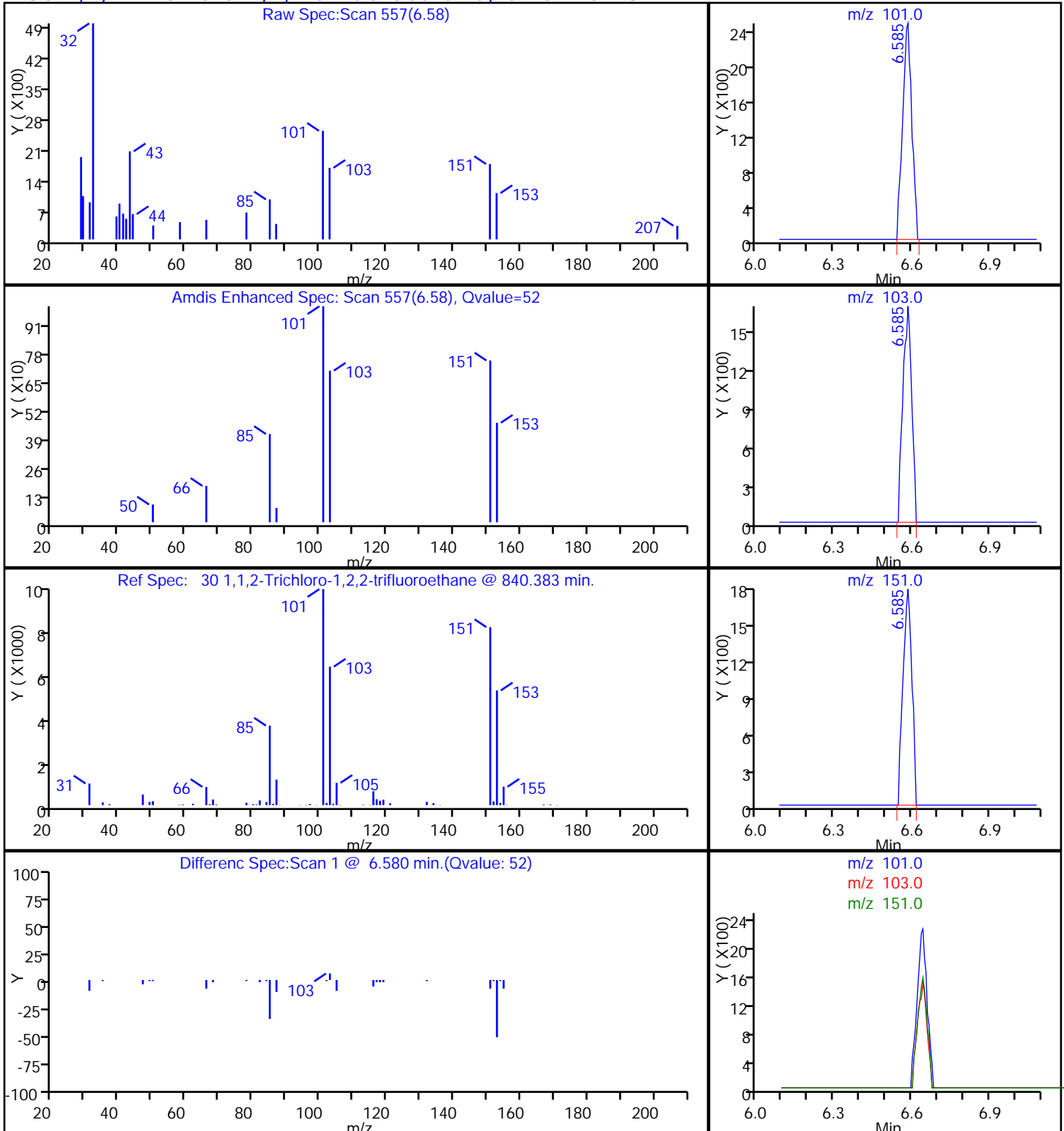
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

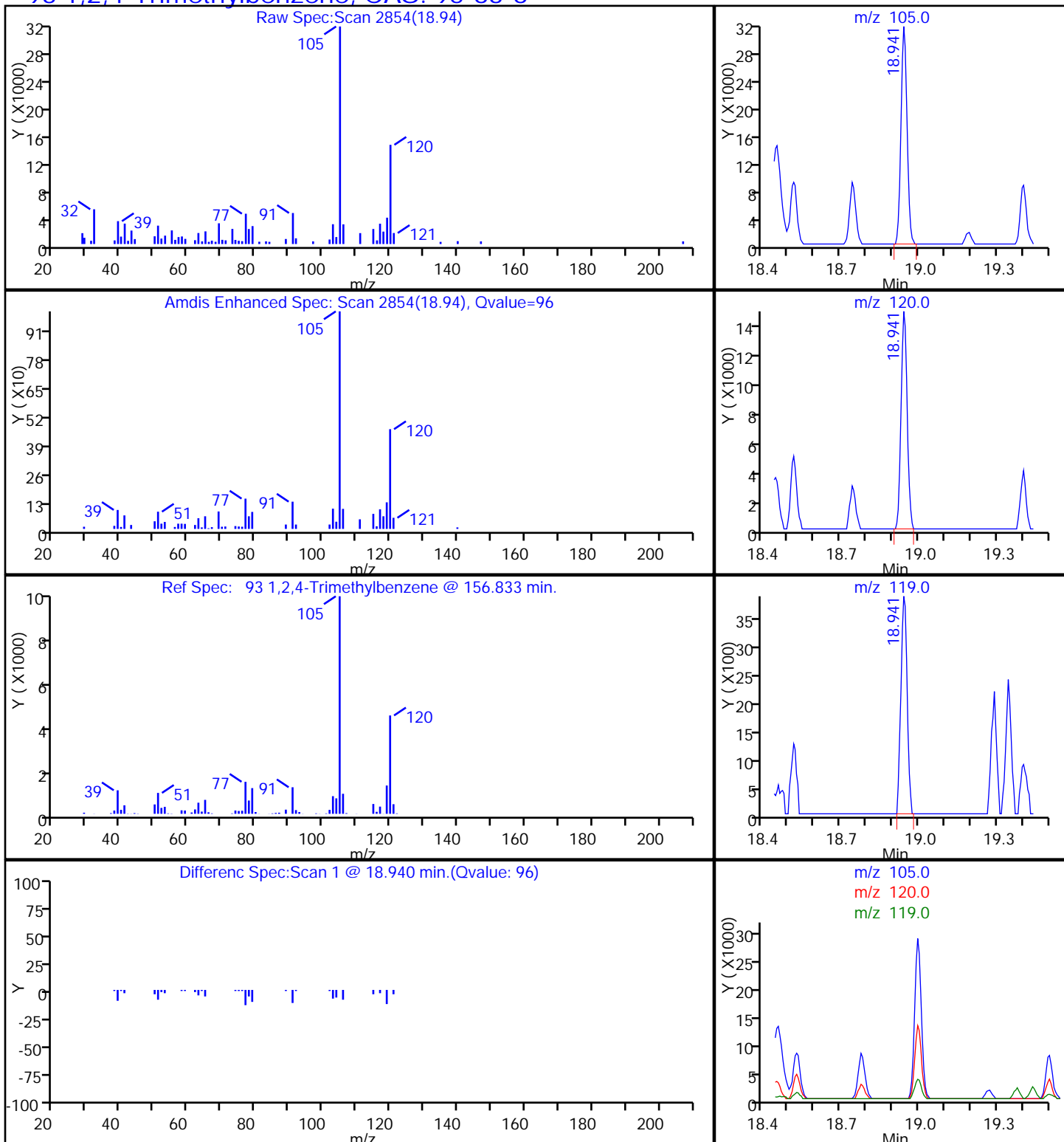
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

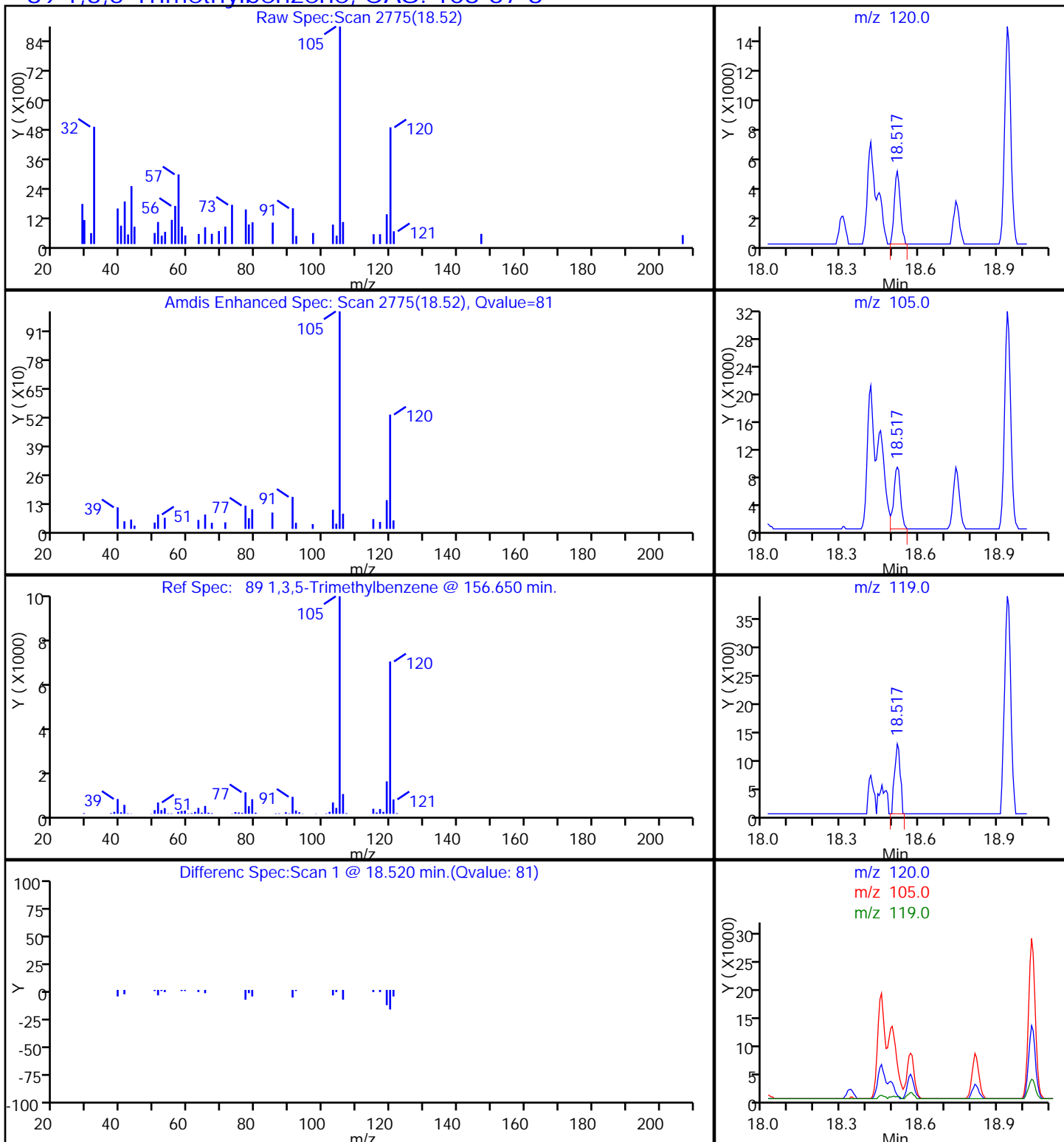
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

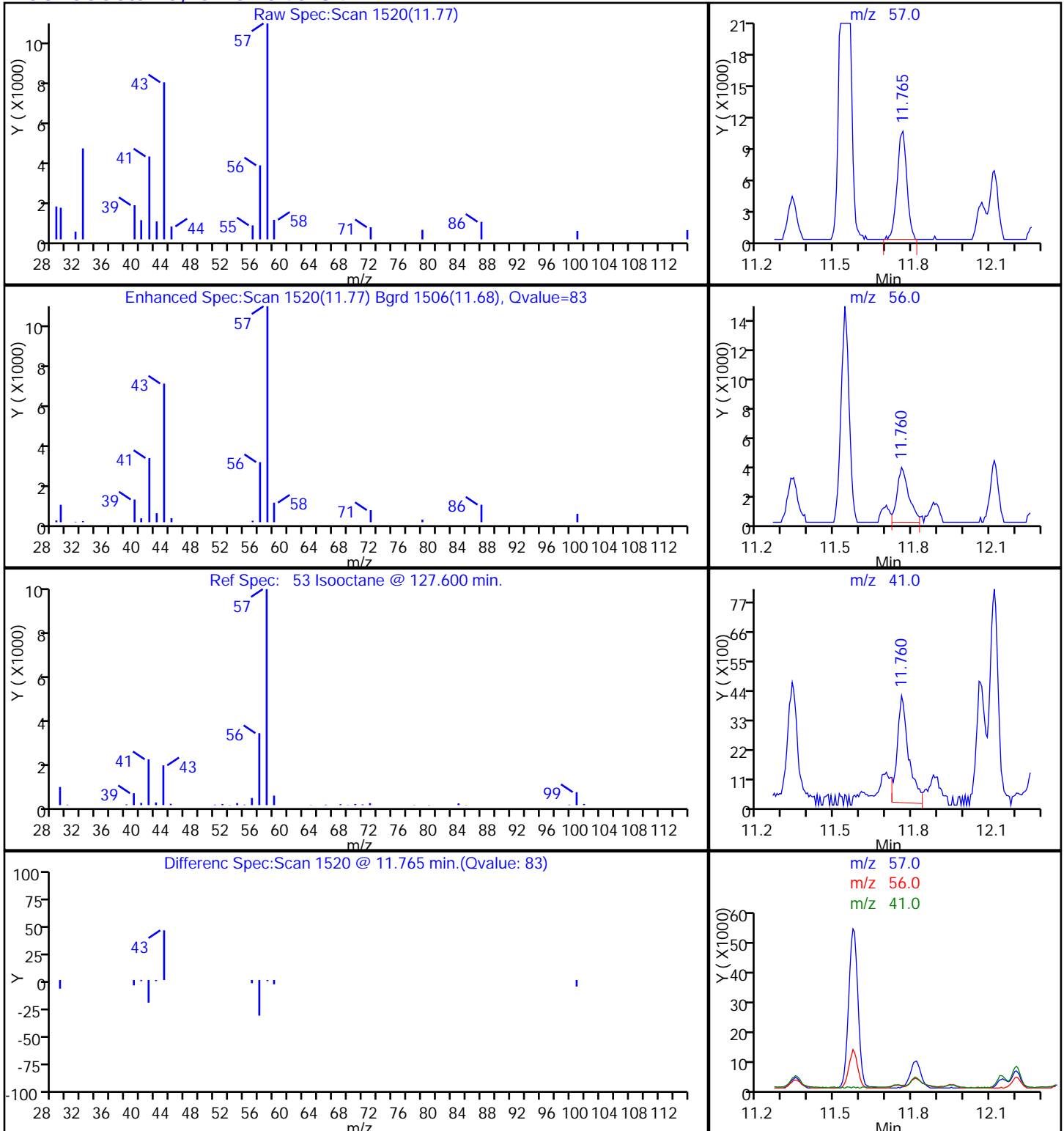
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

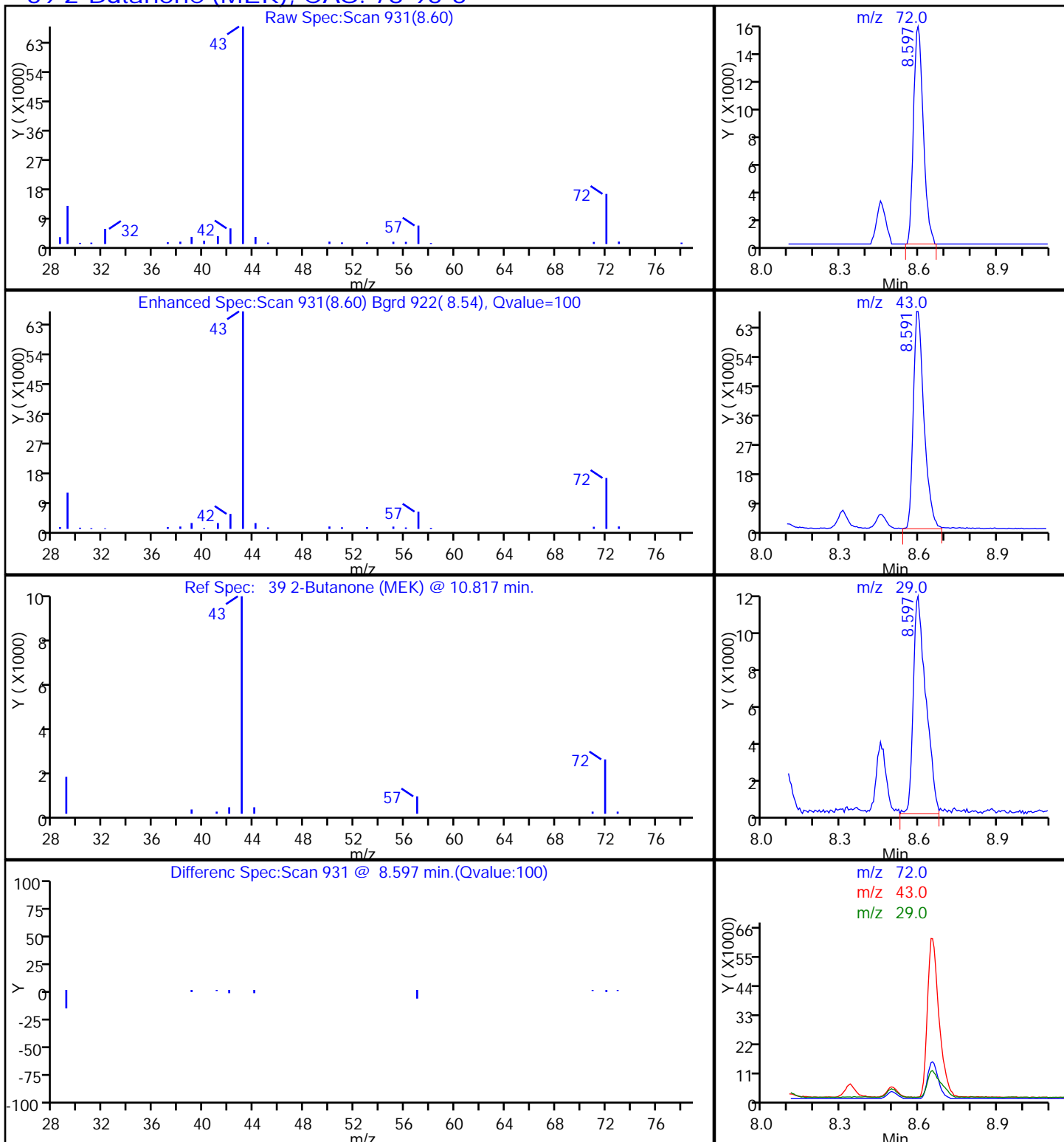
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

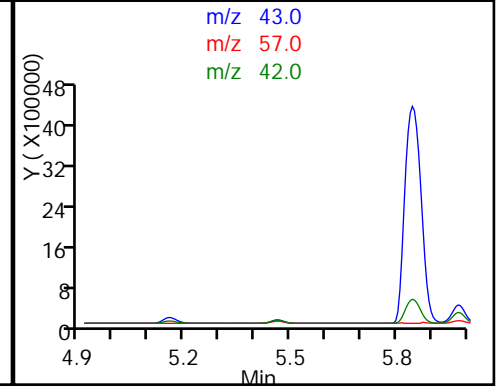
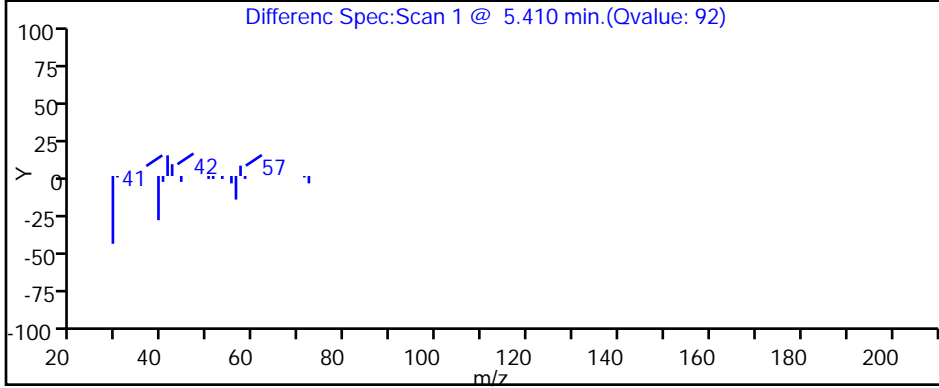
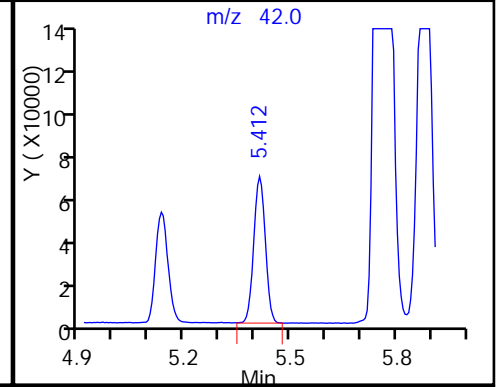
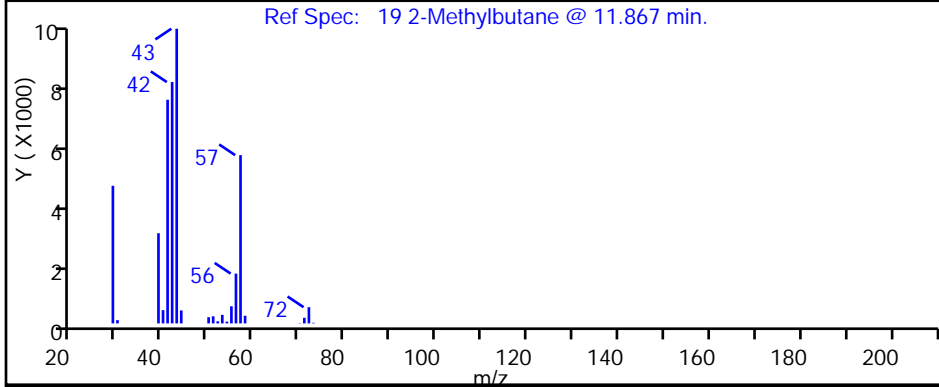
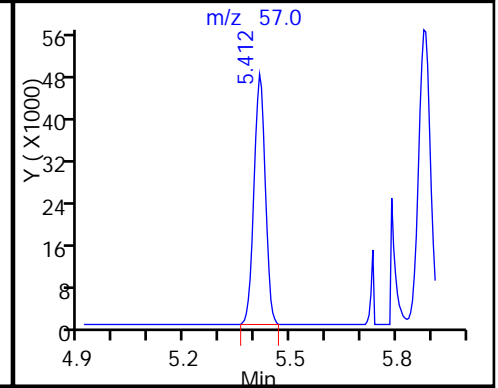
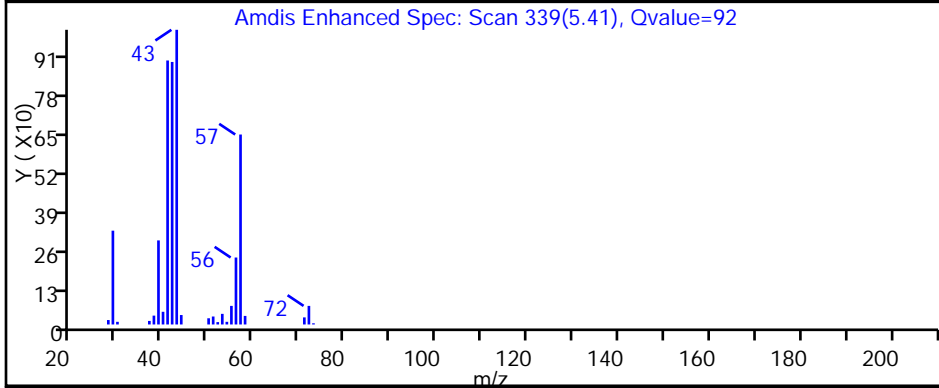
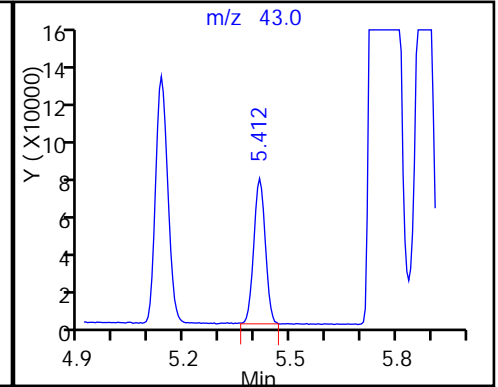
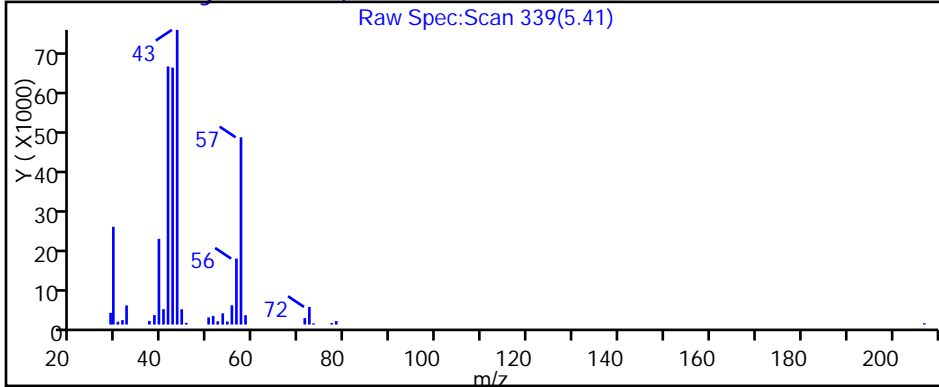
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

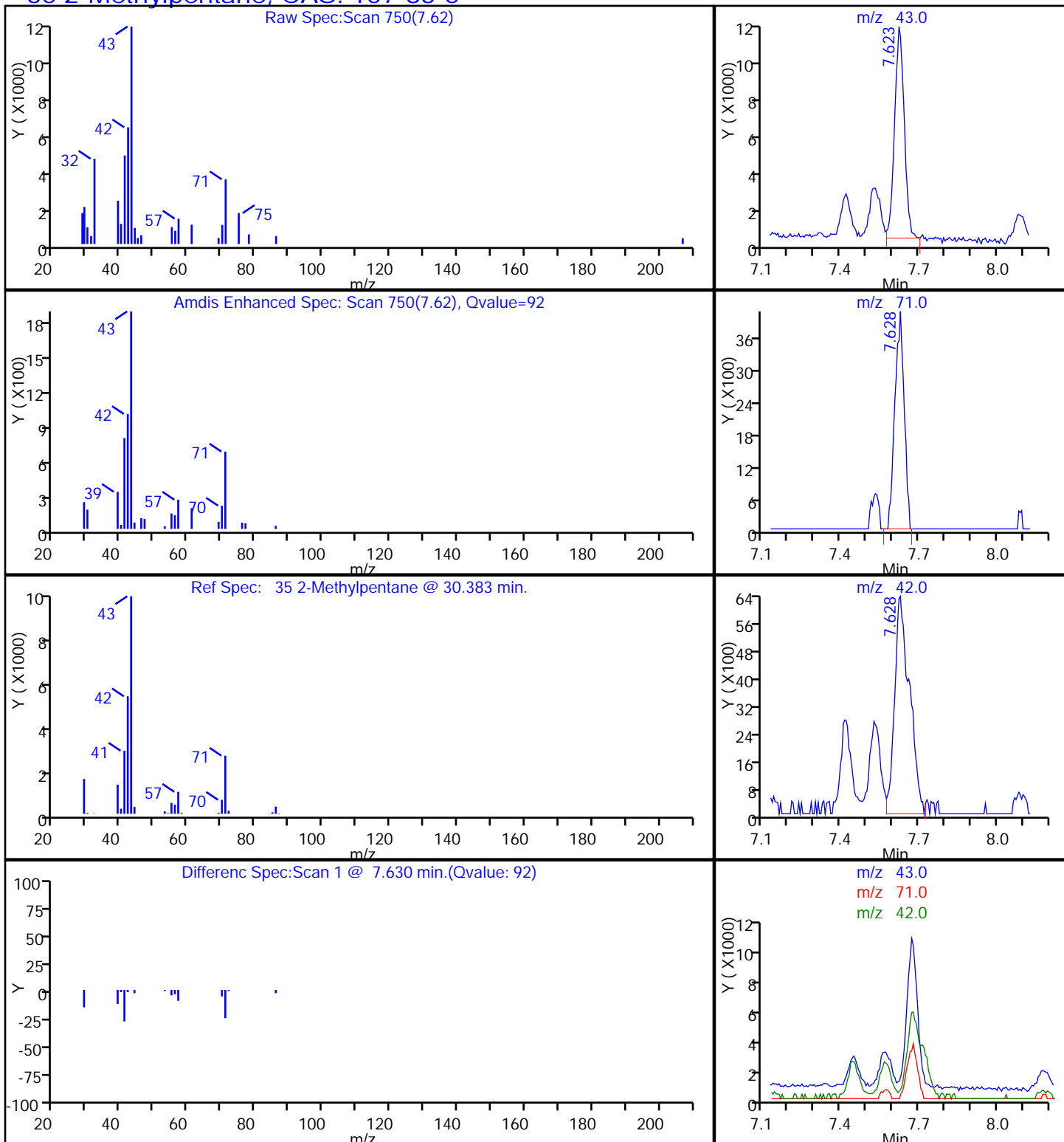
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

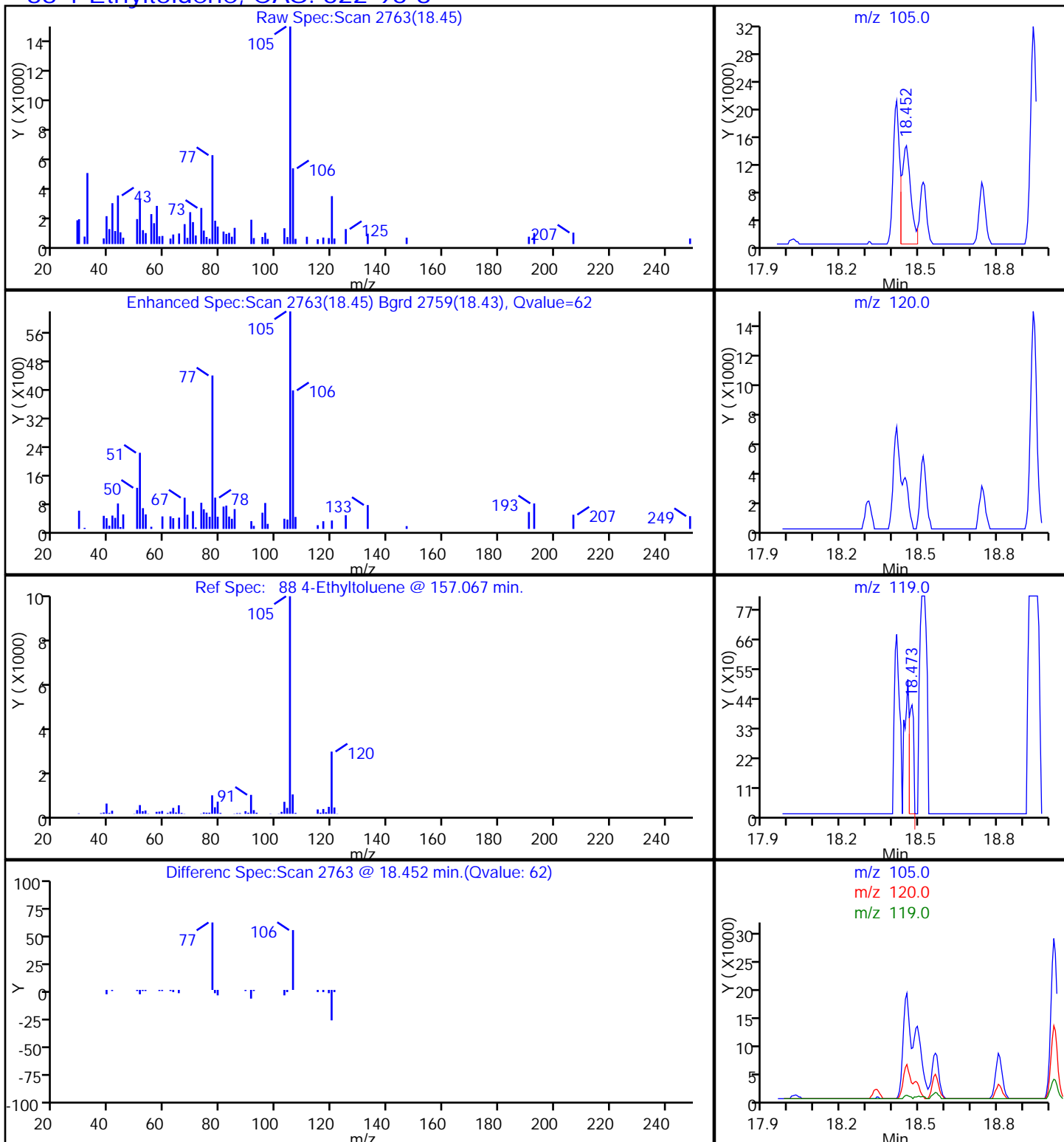
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

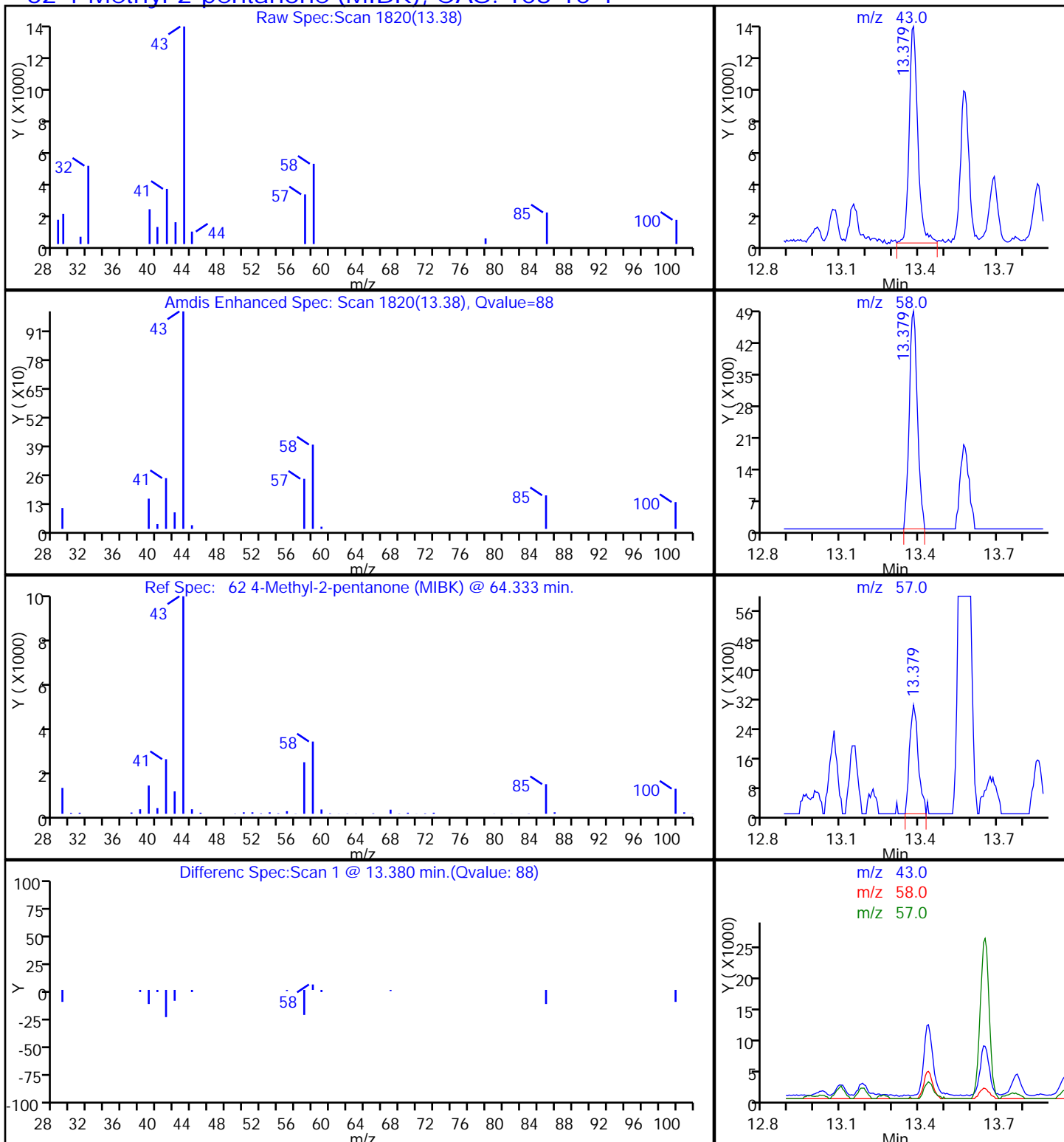
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

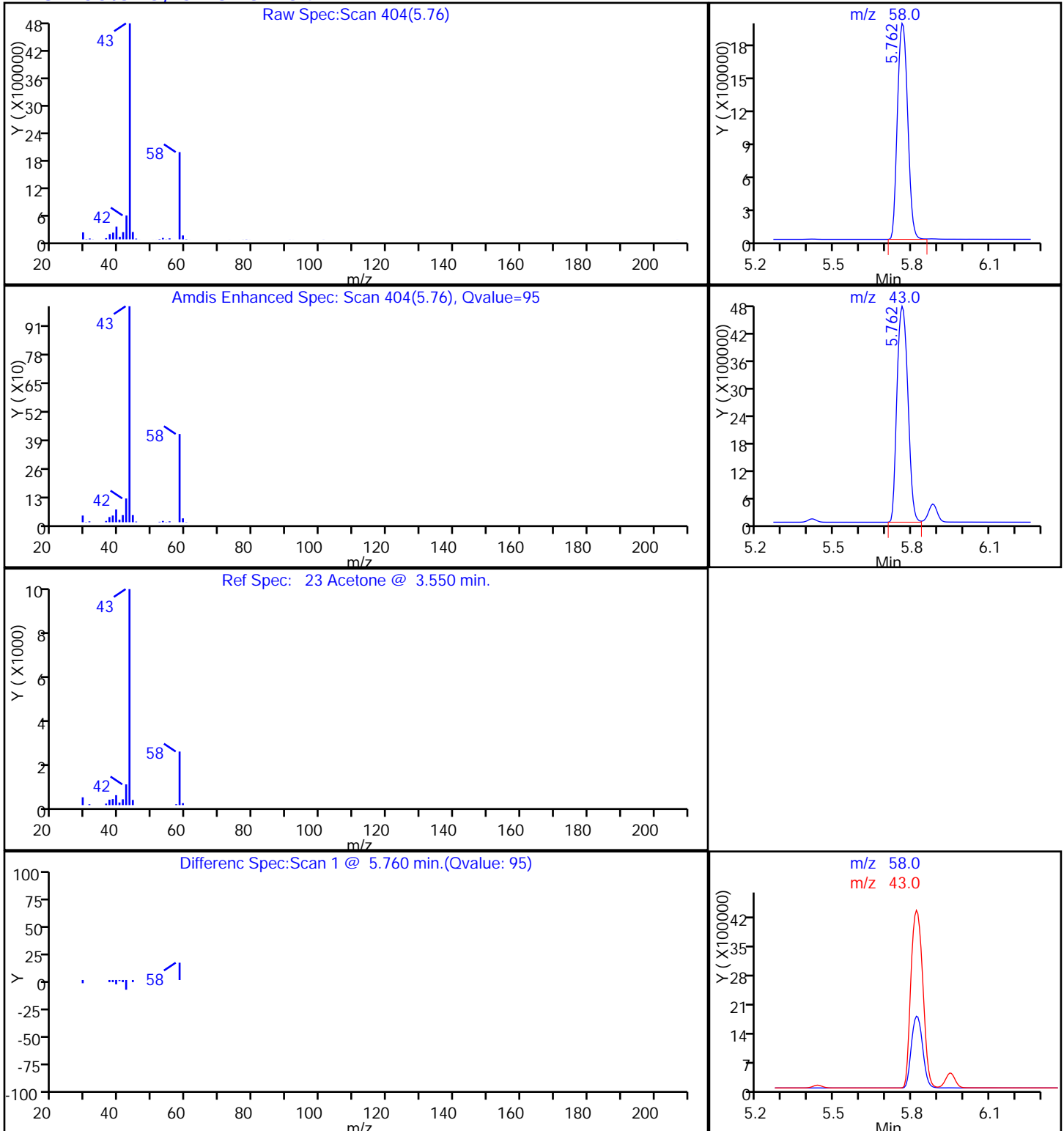
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

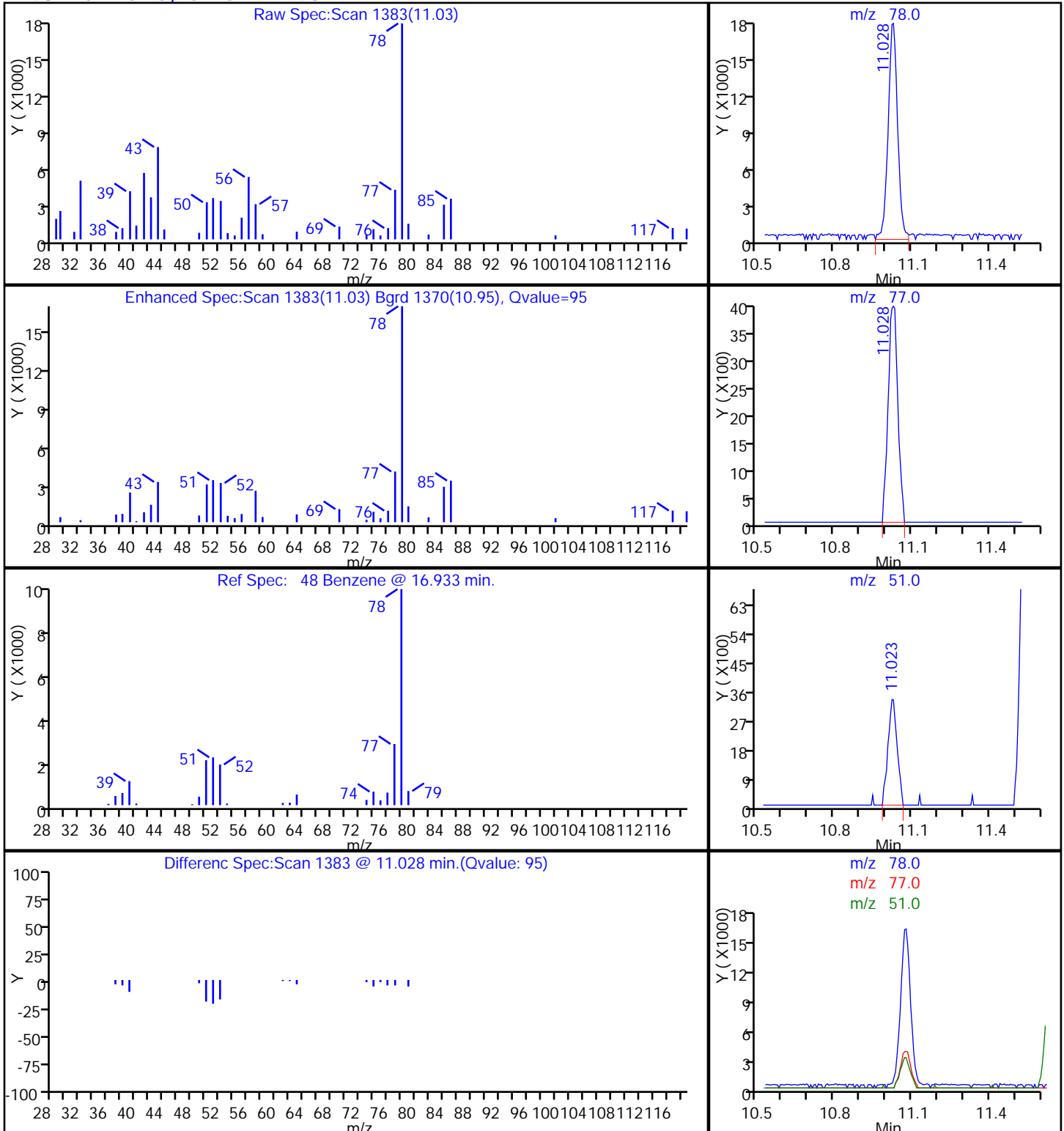
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

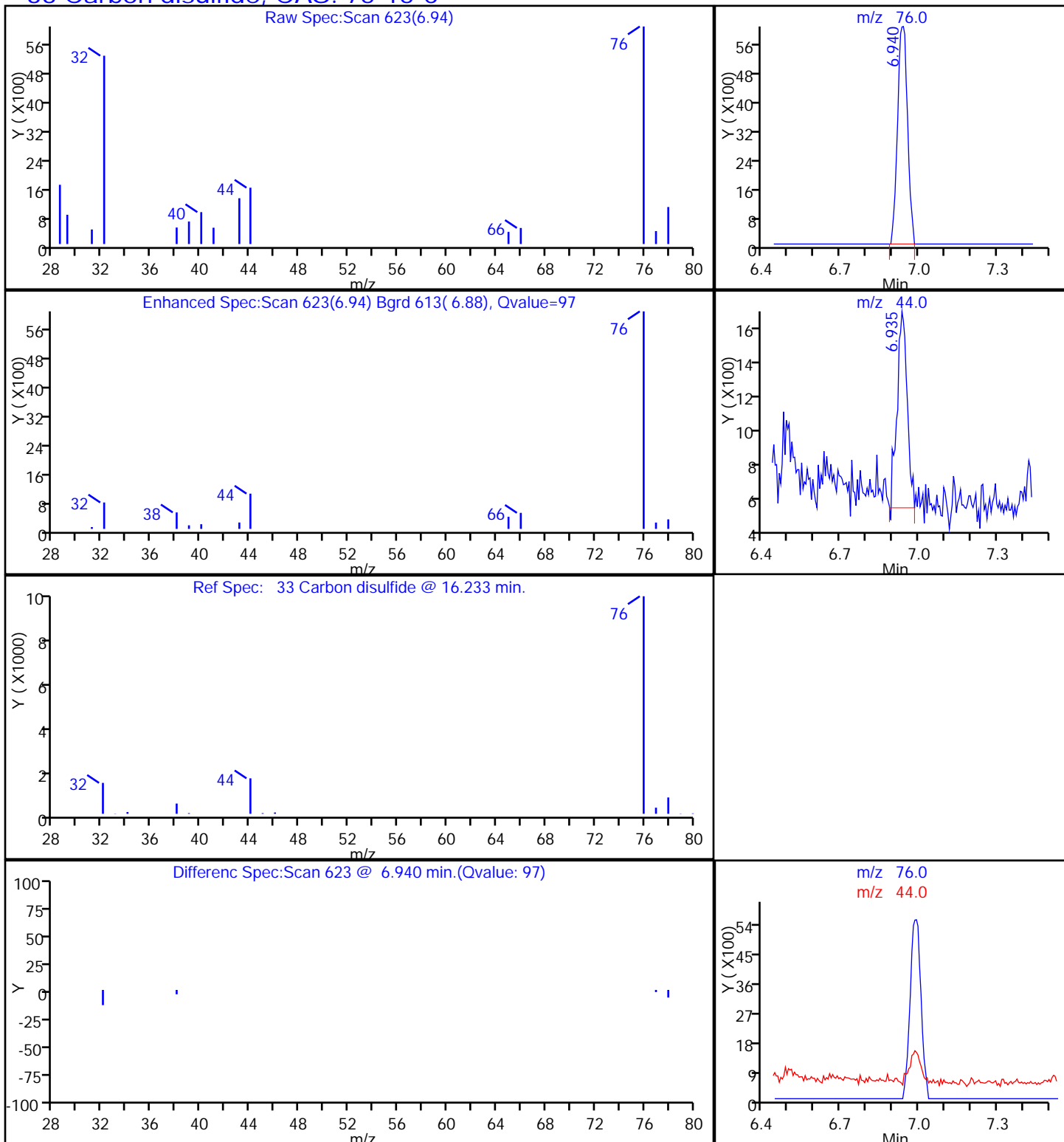
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

33 Carbon disulfide, CAS: 75-15-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

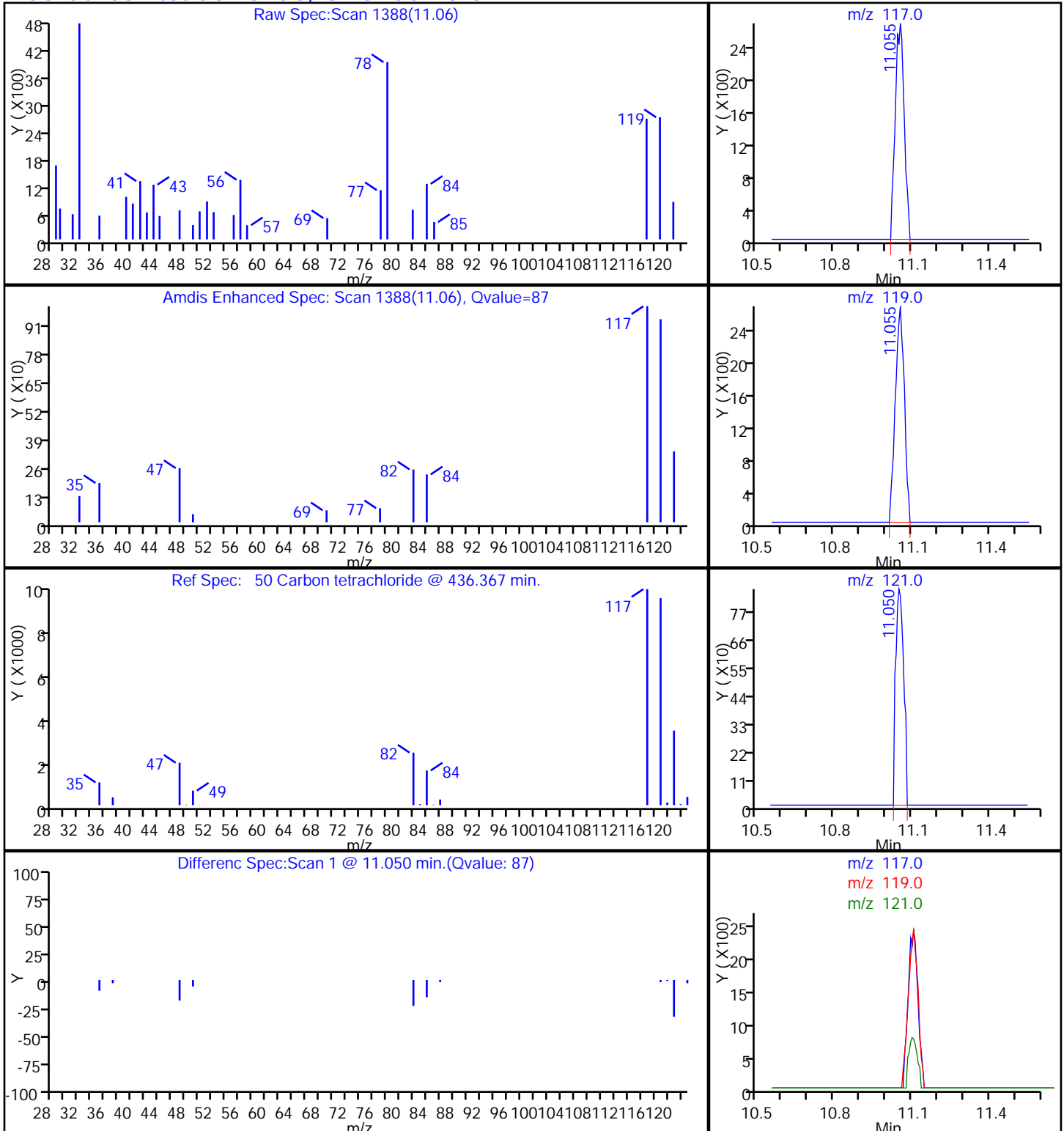
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

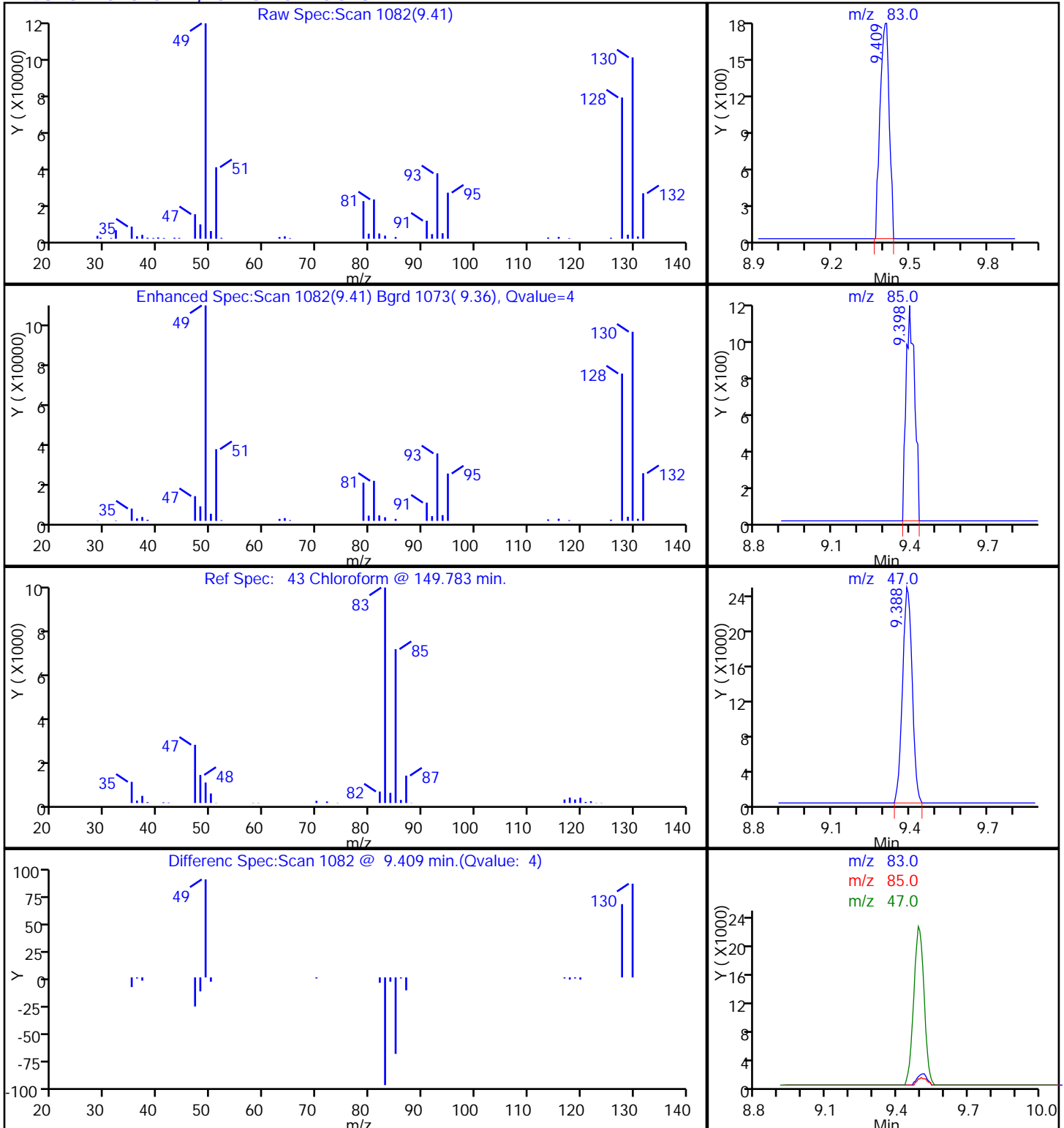
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

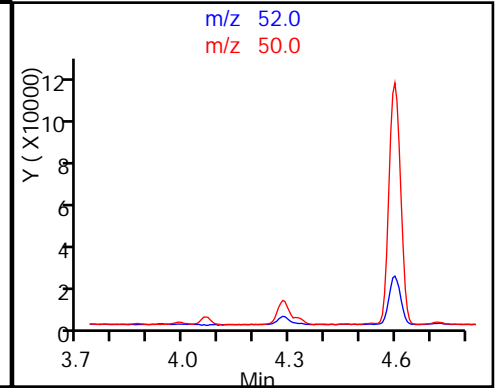
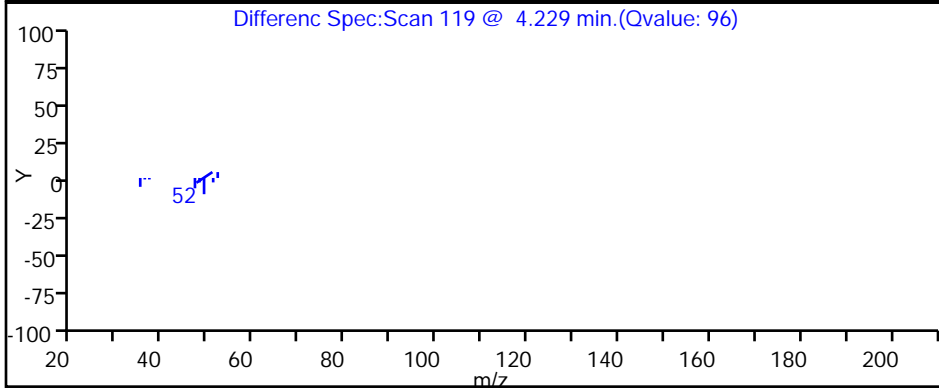
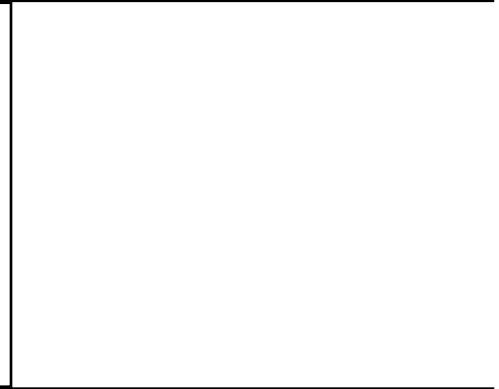
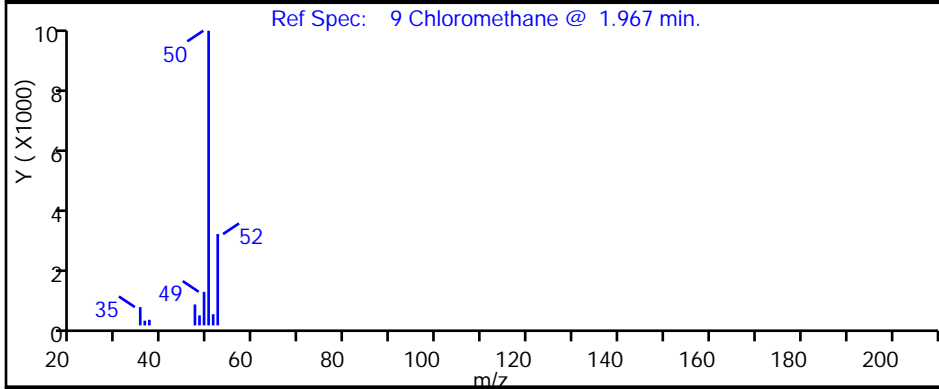
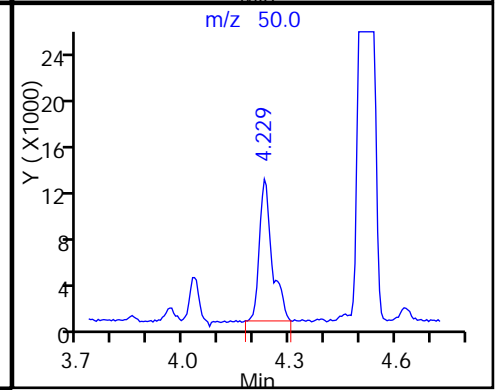
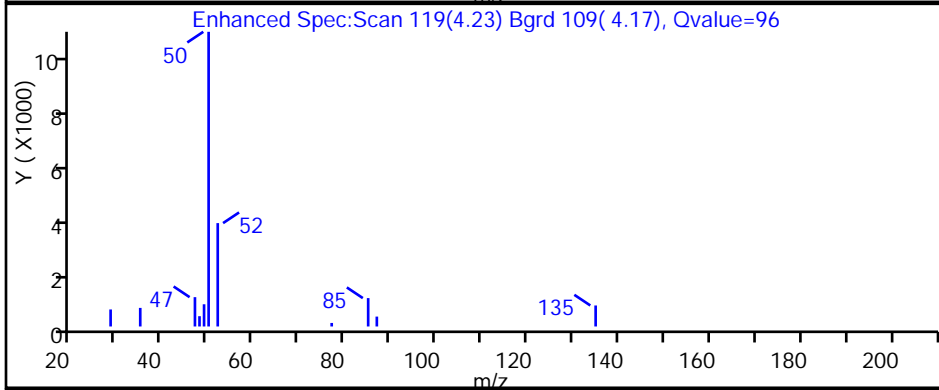
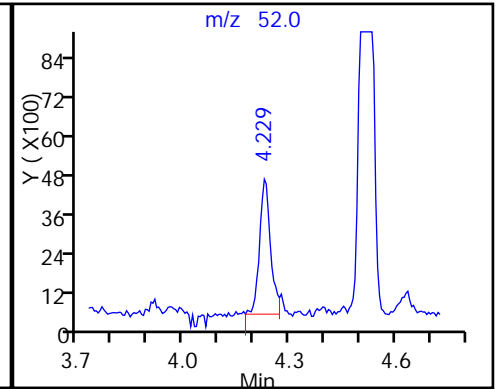
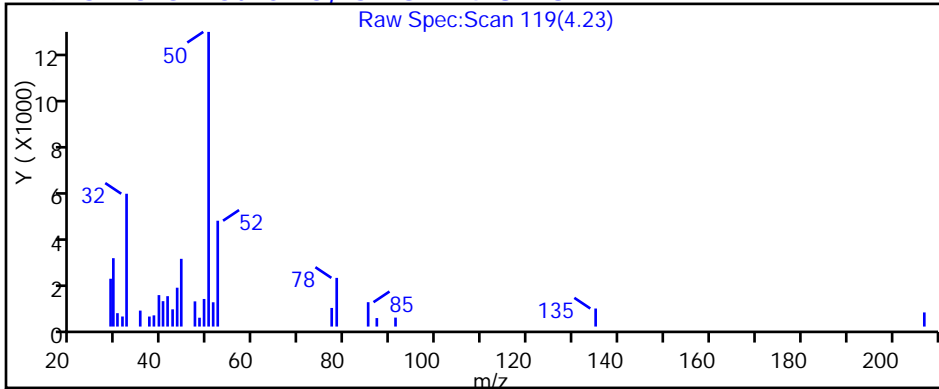
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

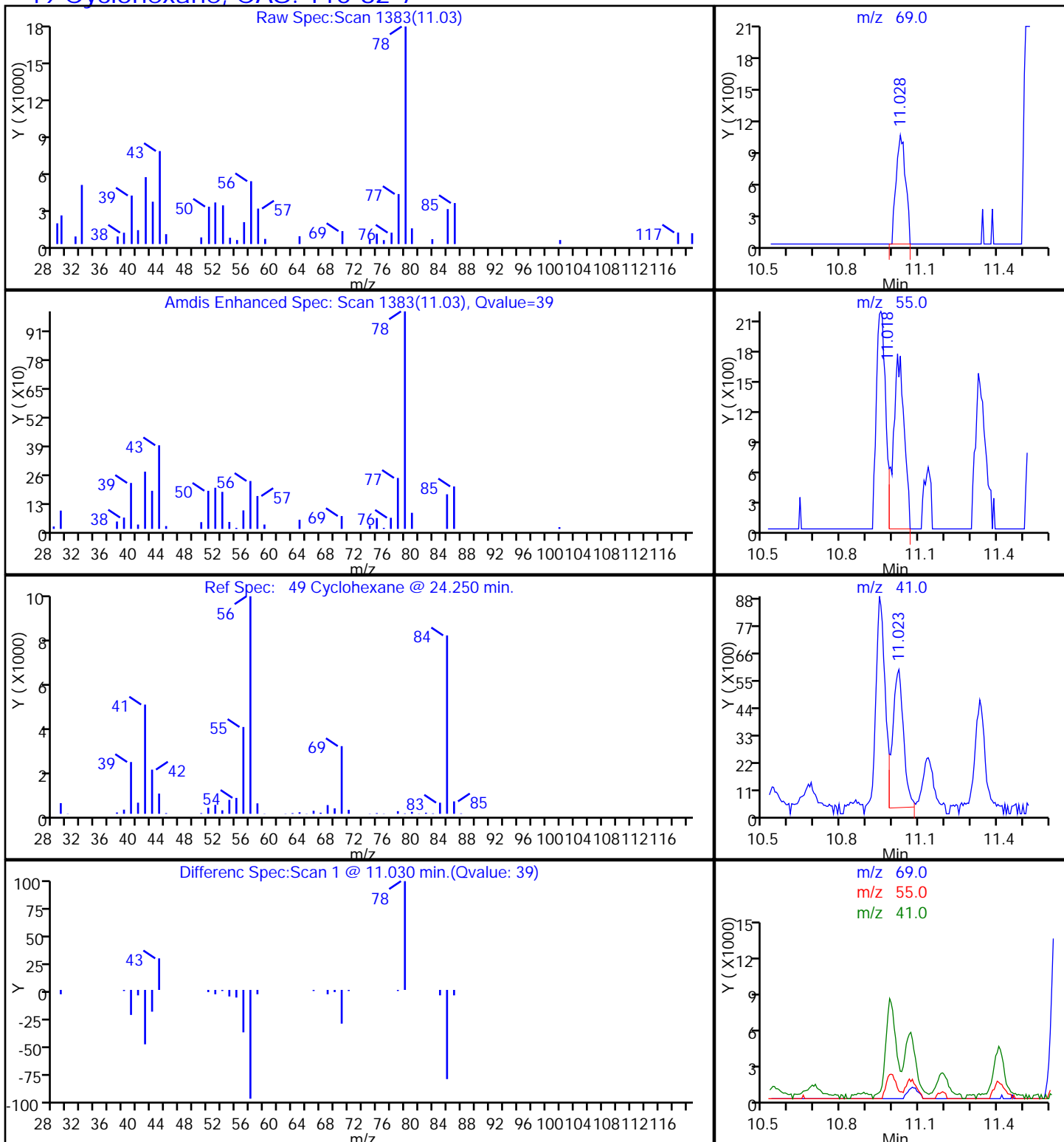
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

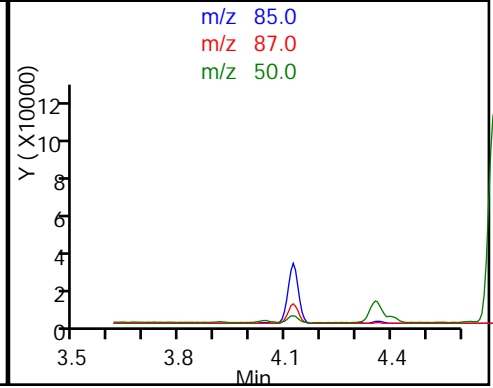
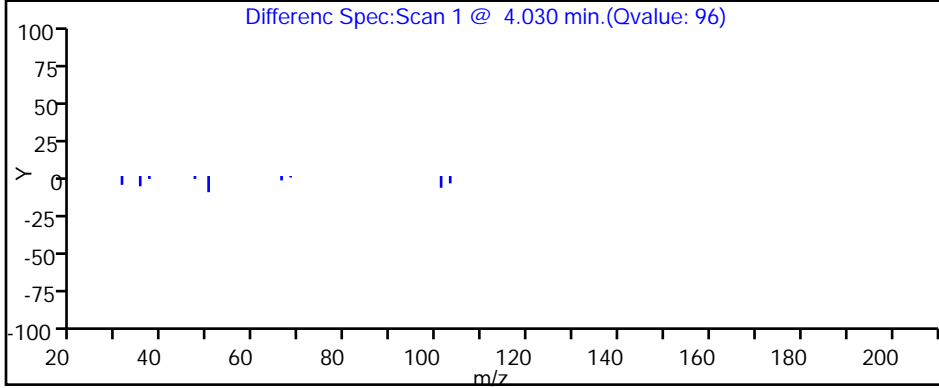
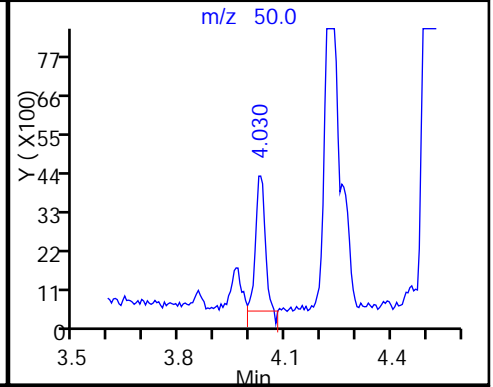
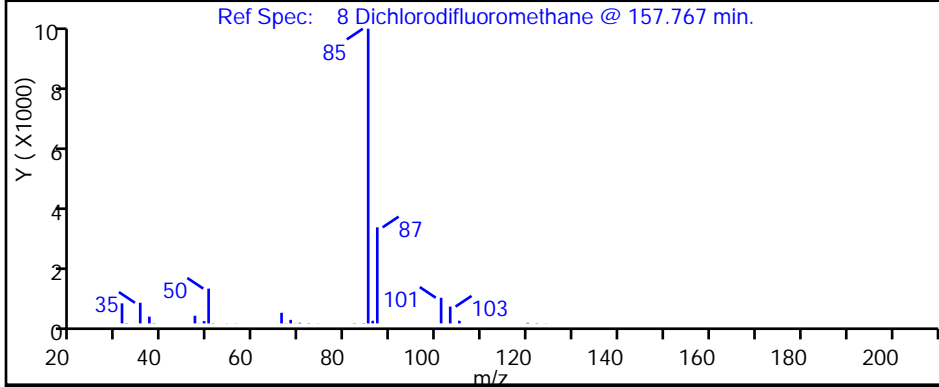
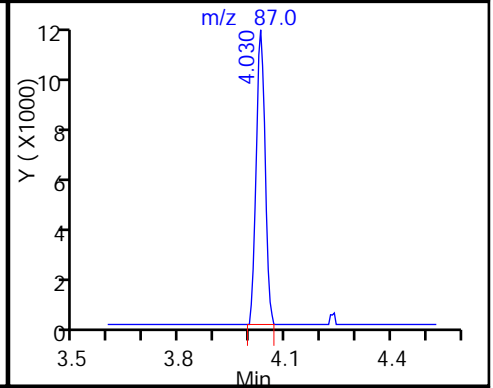
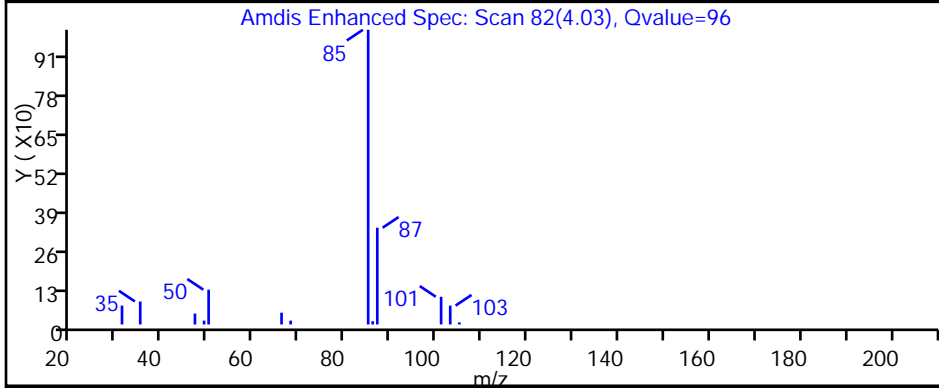
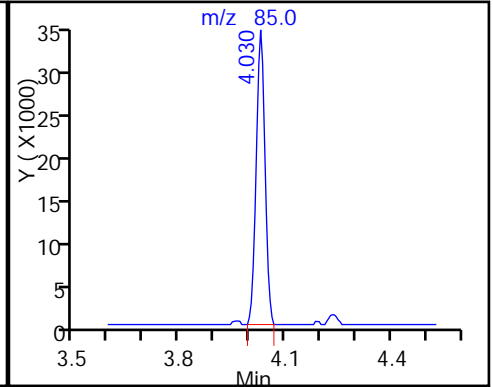
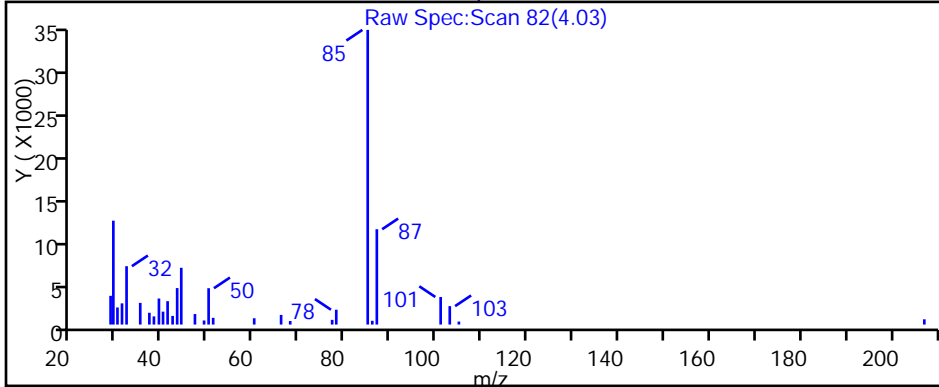
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

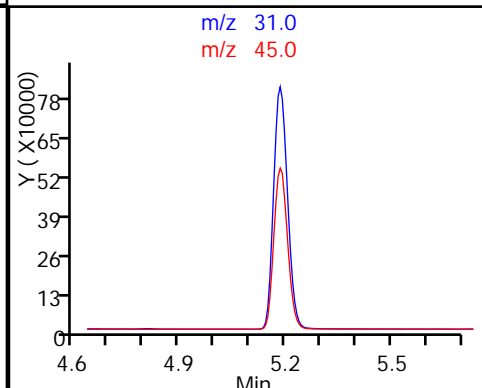
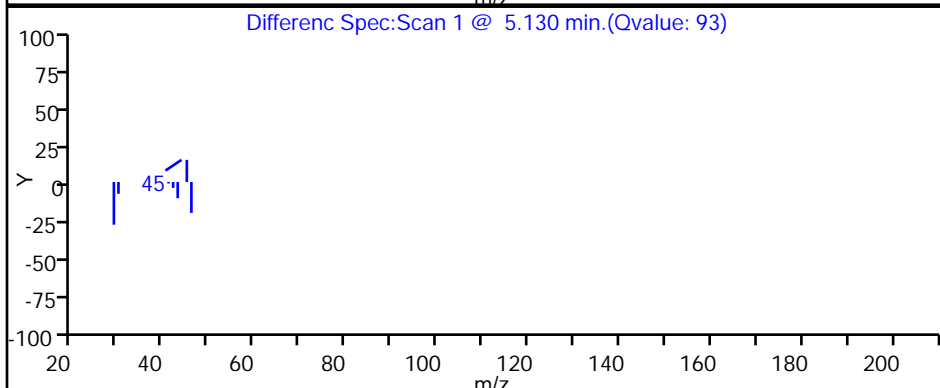
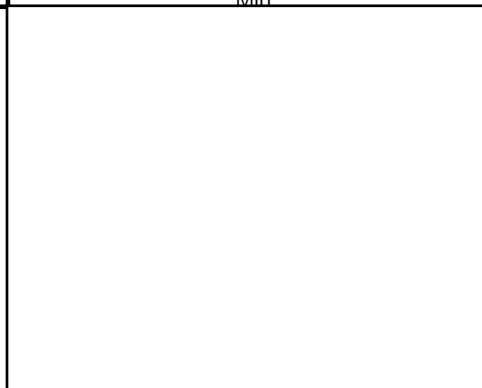
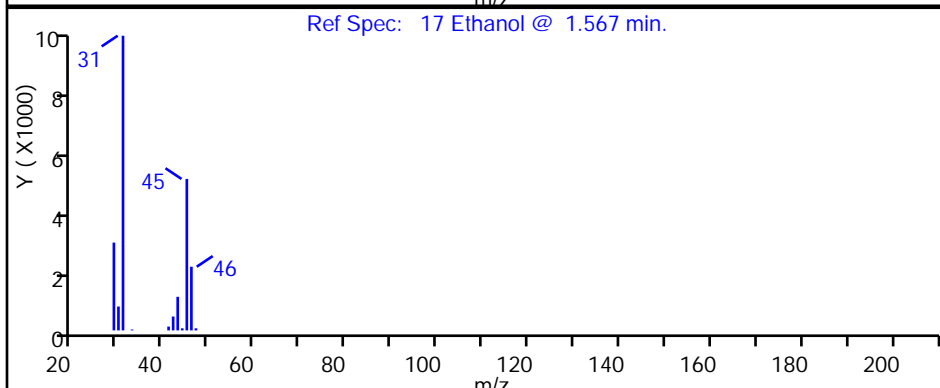
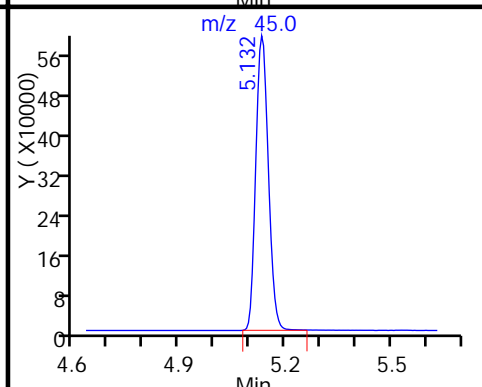
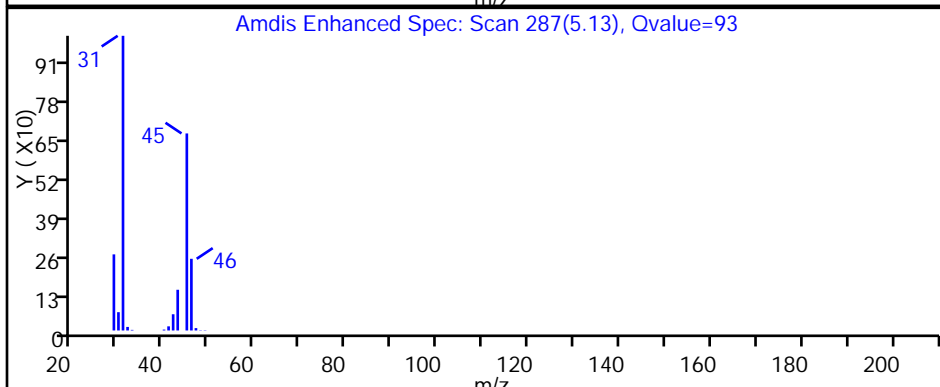
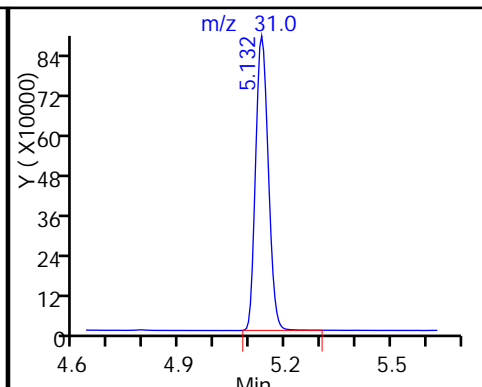
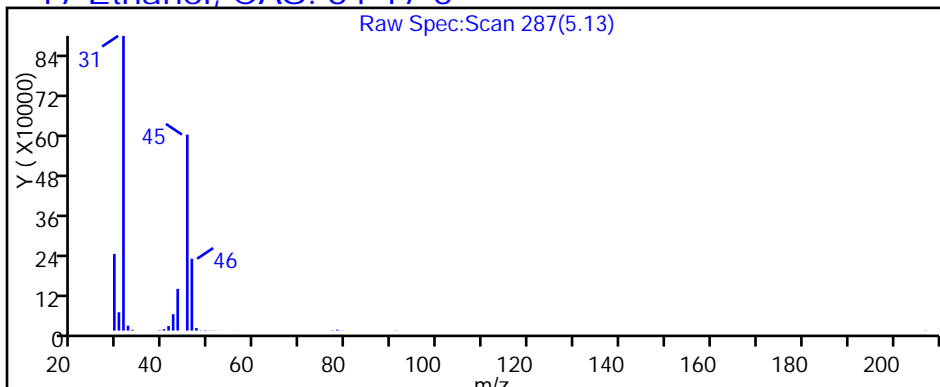
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

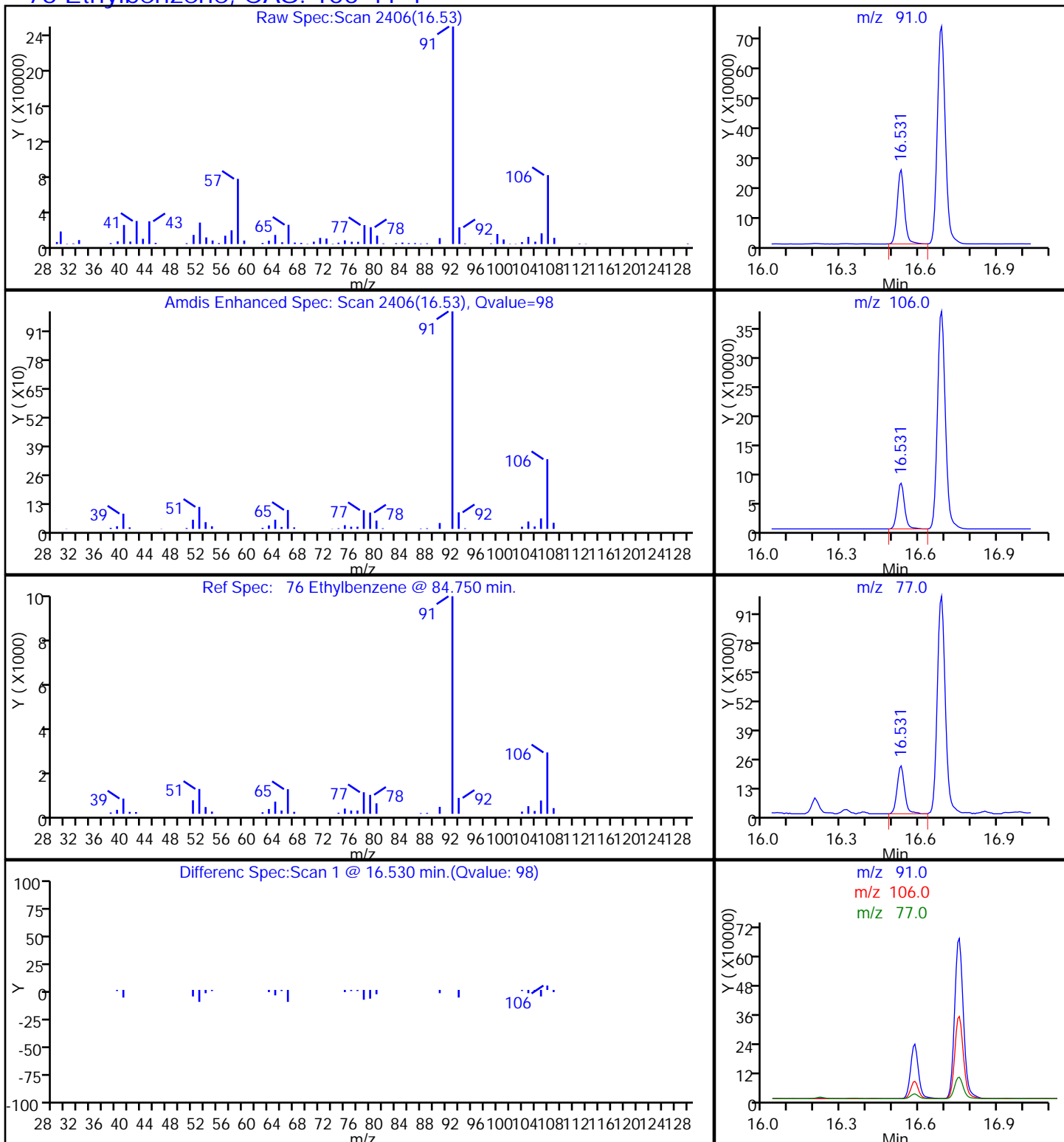
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

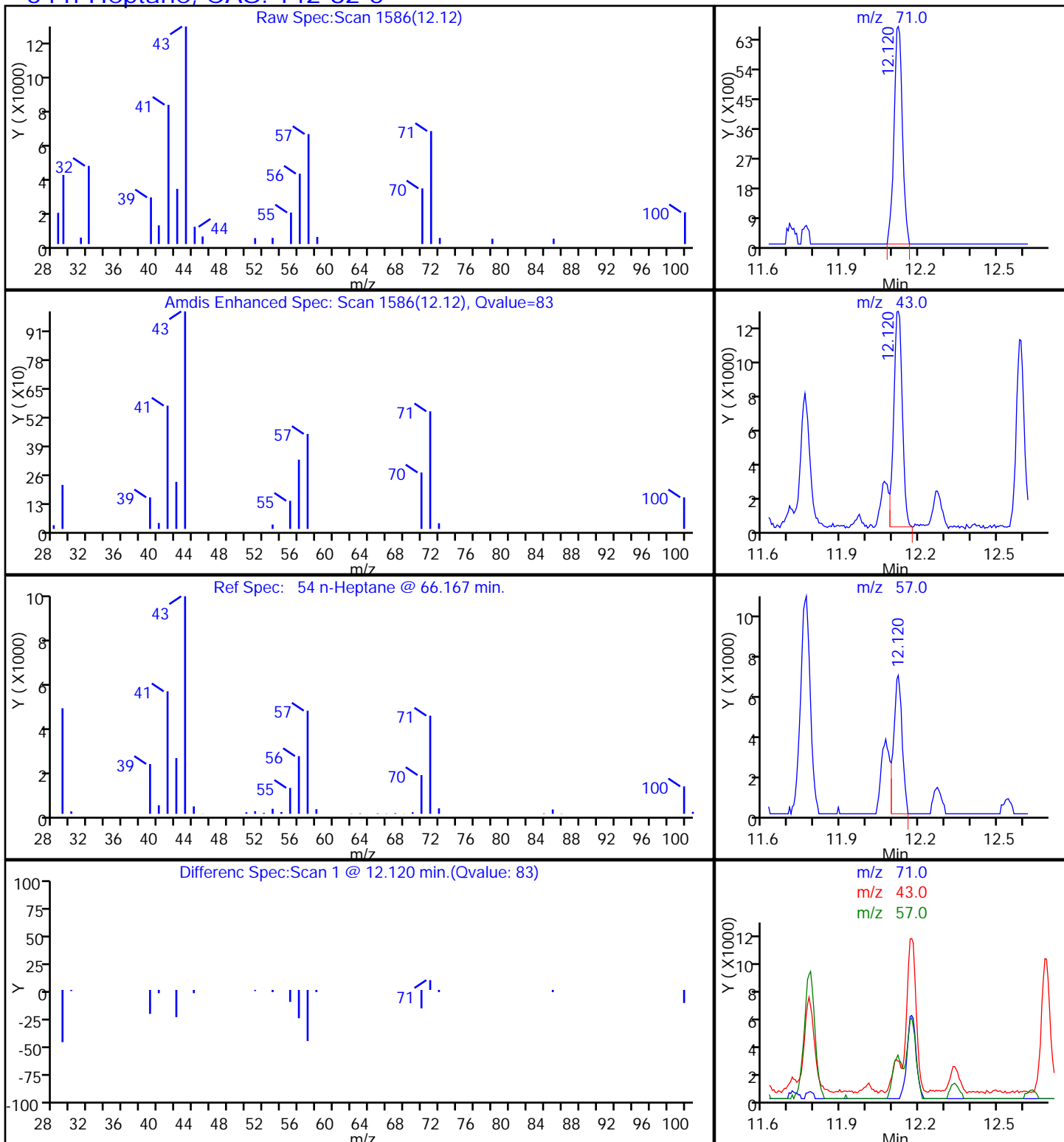
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

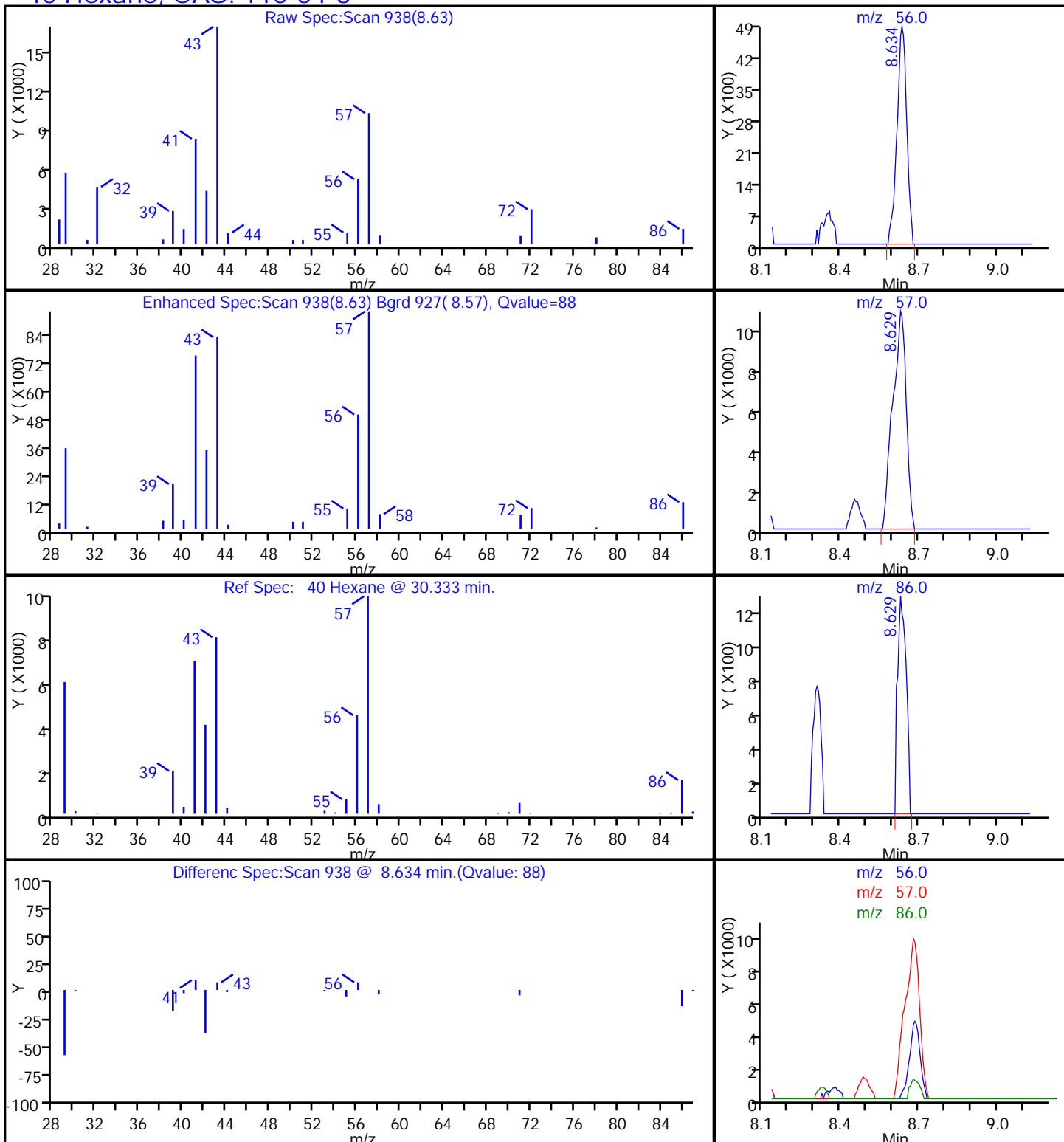
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

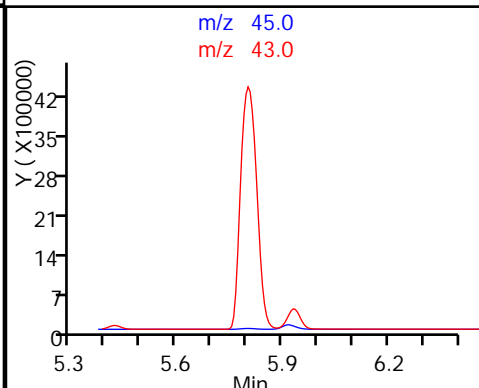
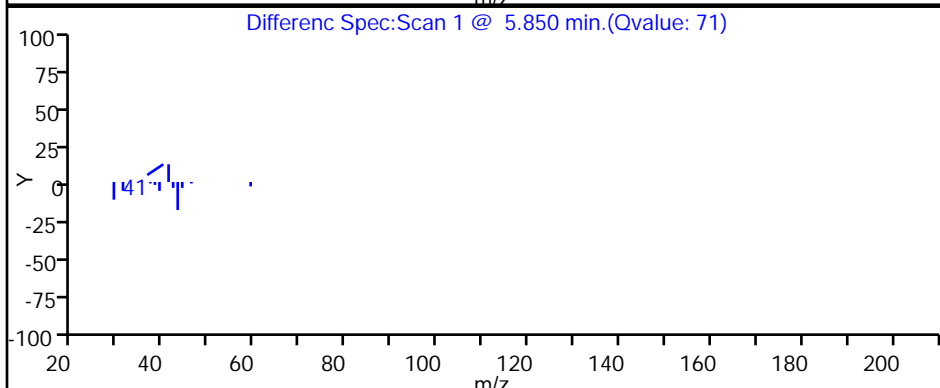
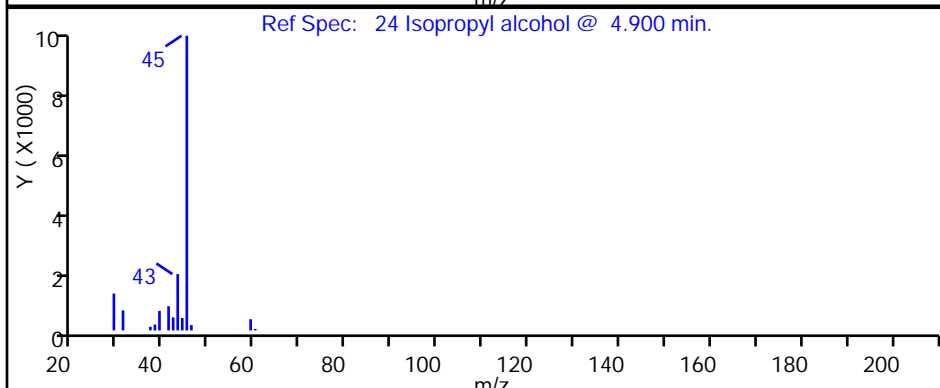
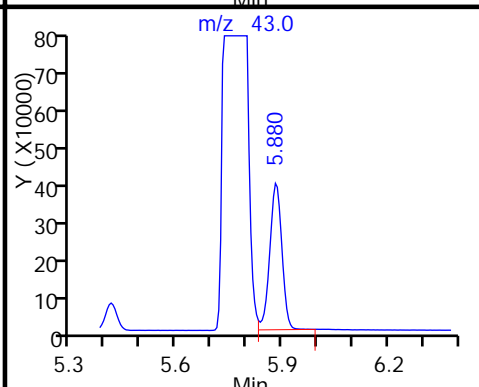
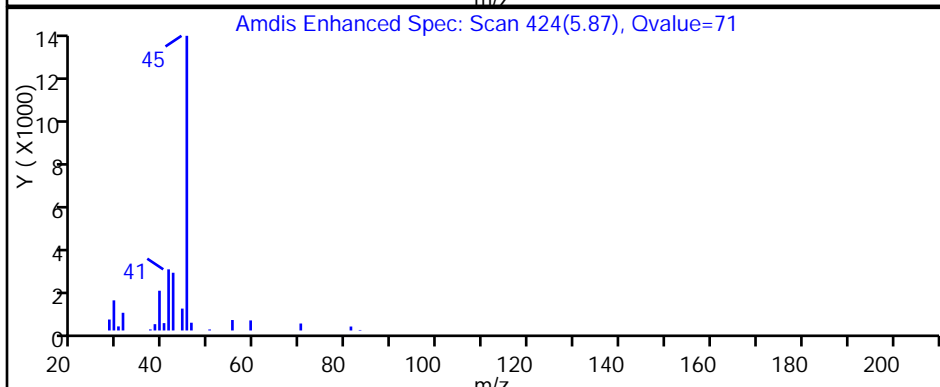
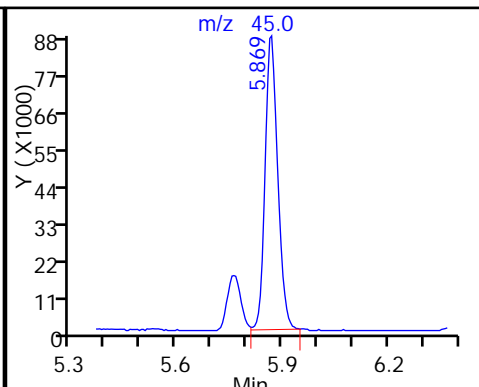
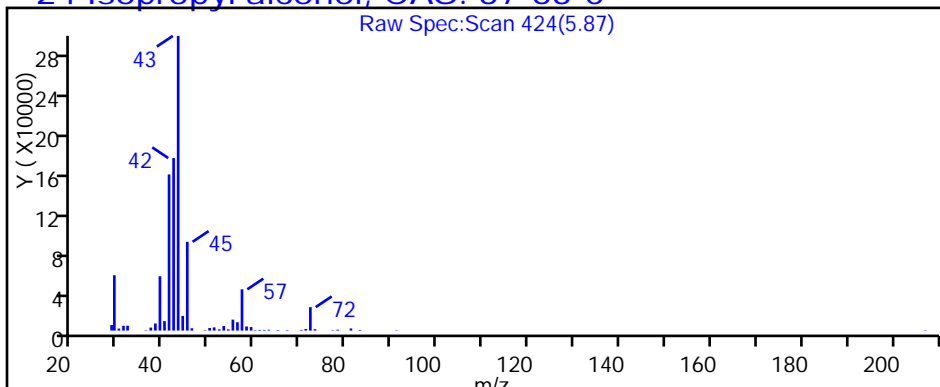
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

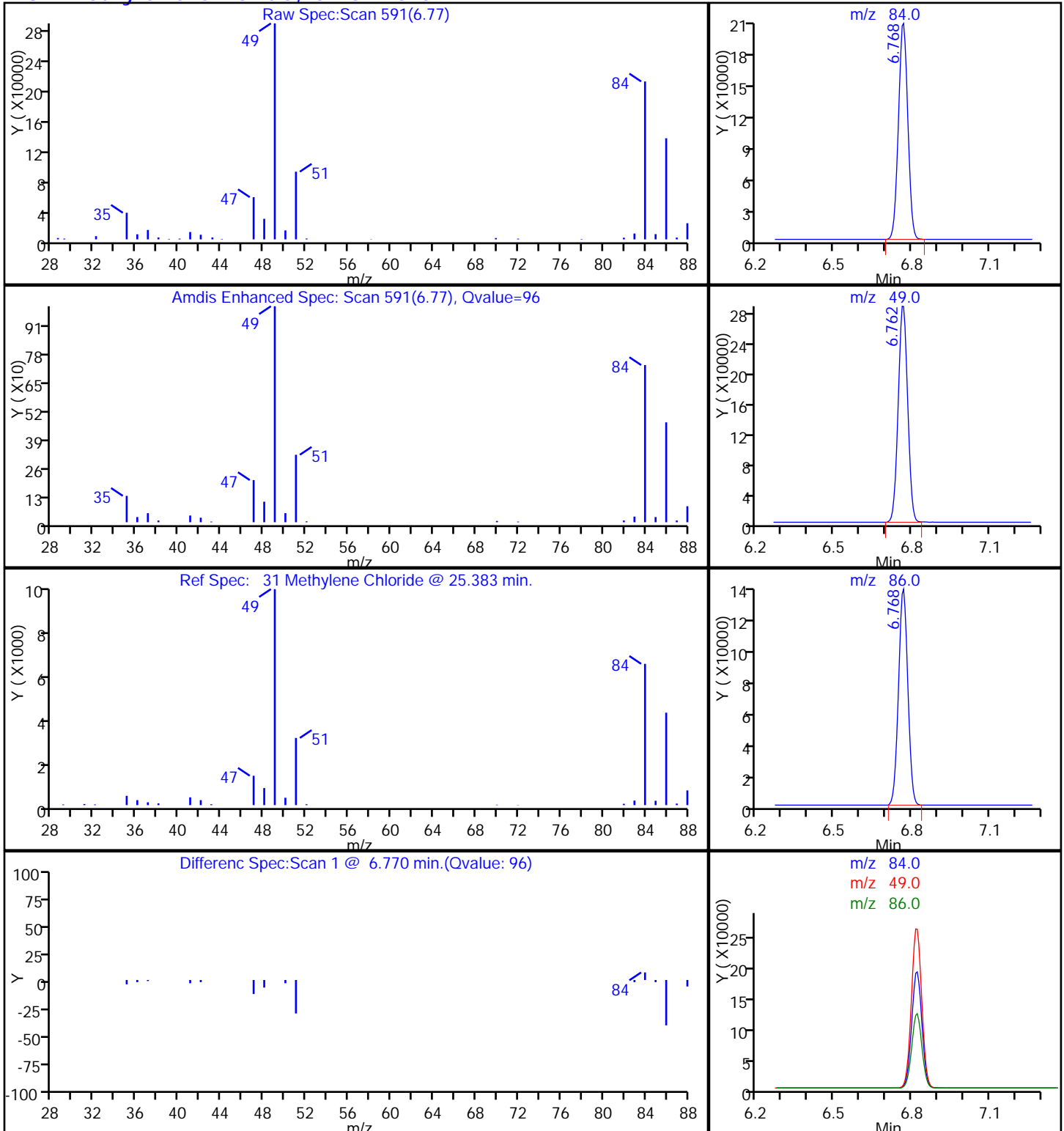
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

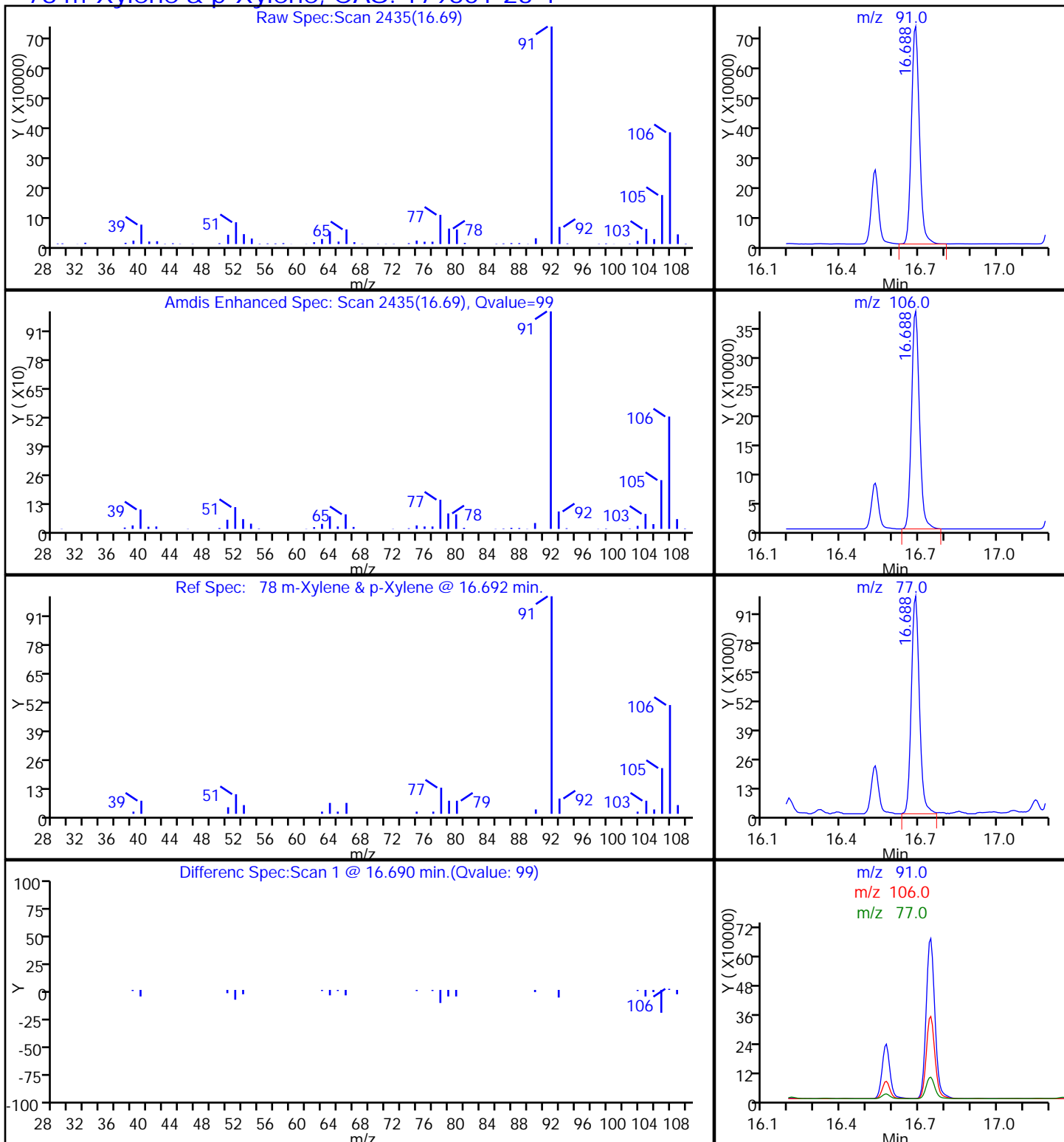
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

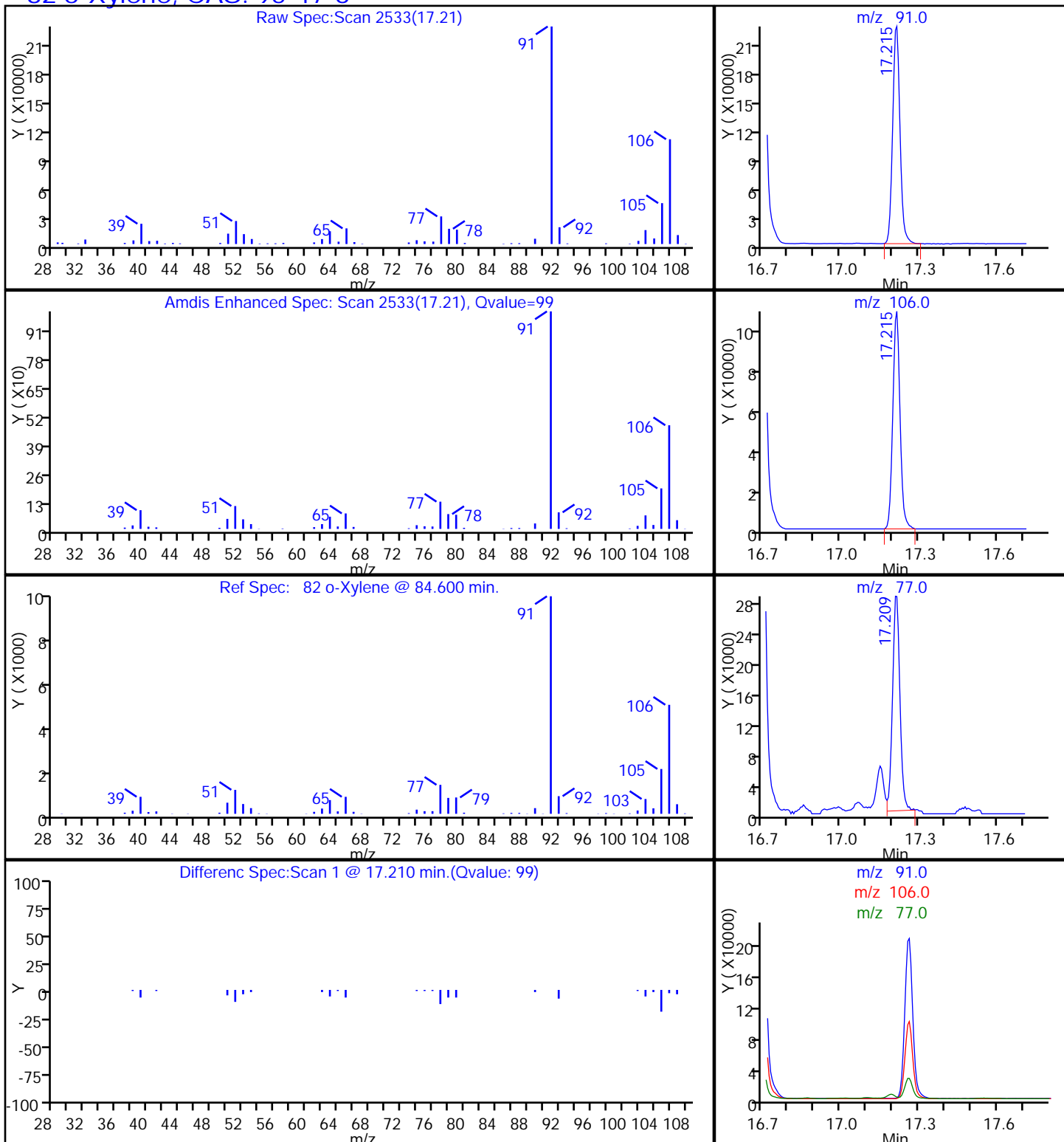
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

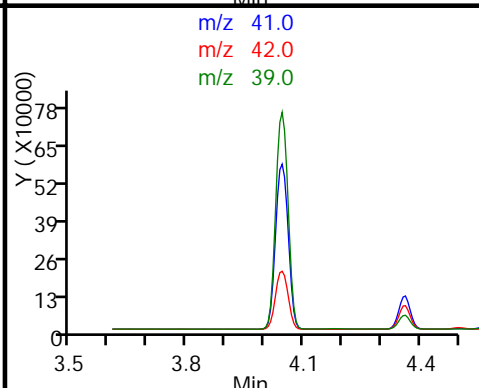
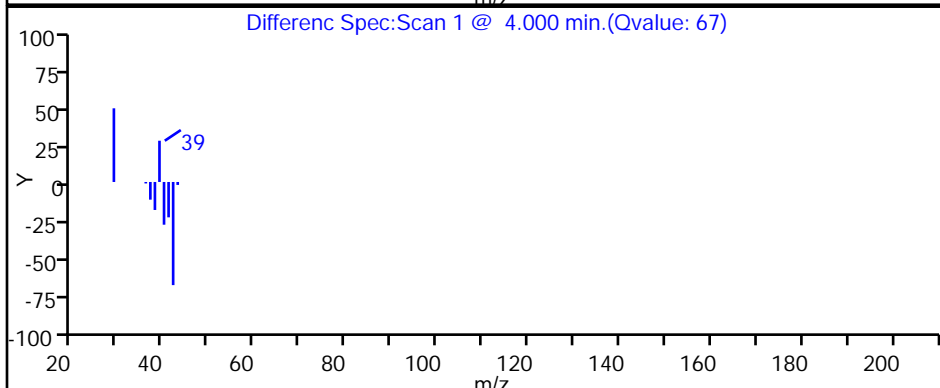
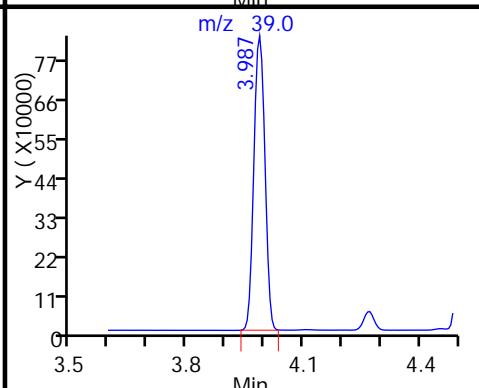
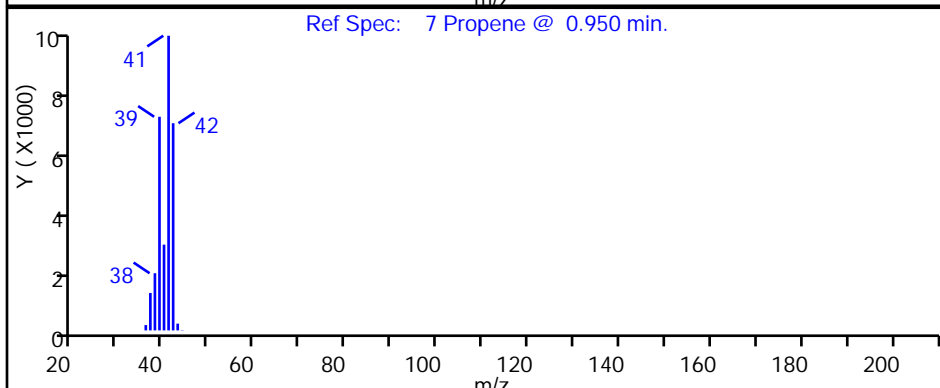
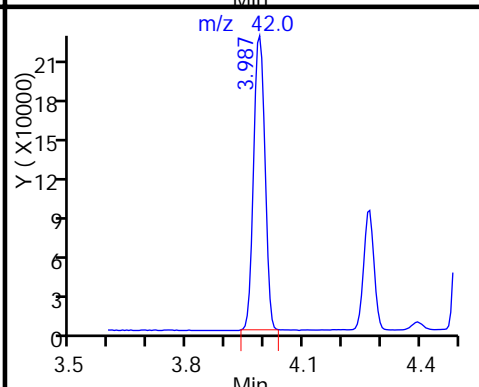
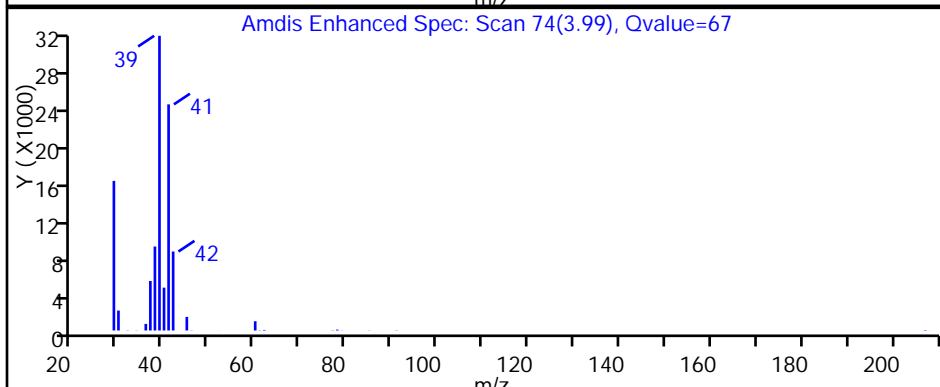
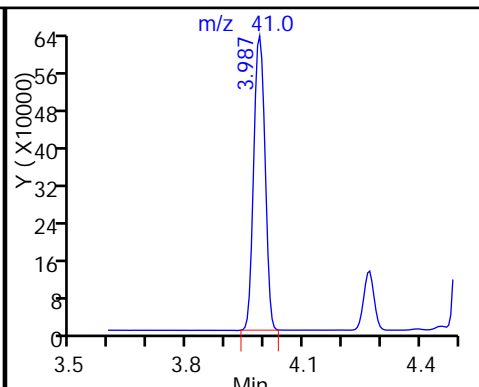
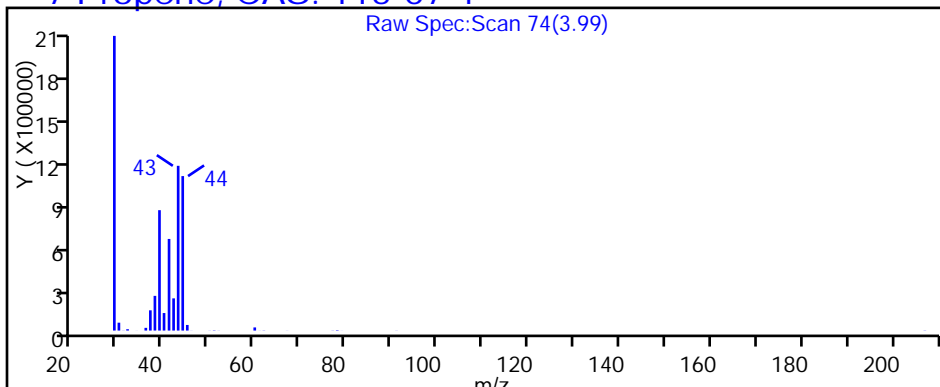
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

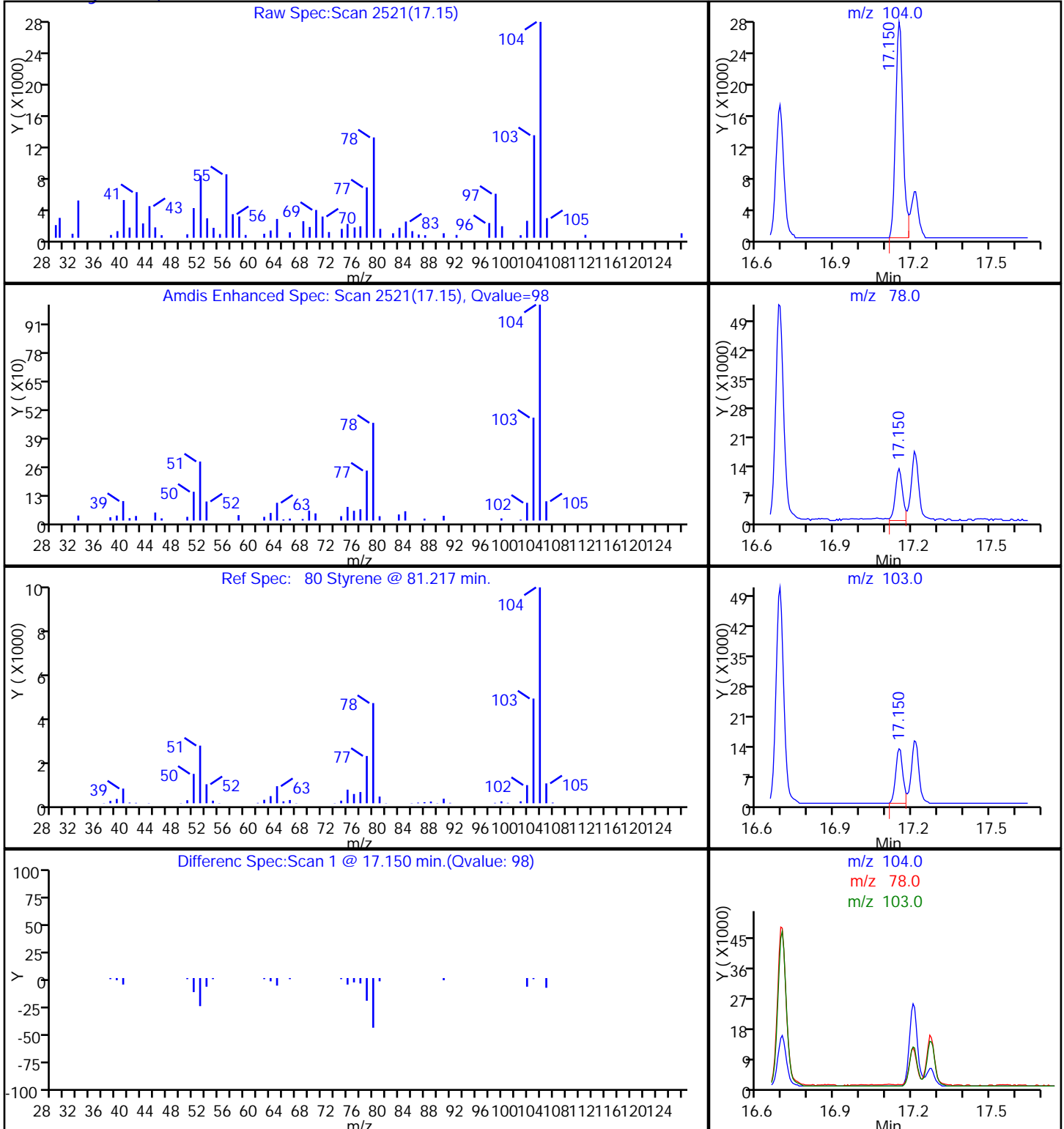
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

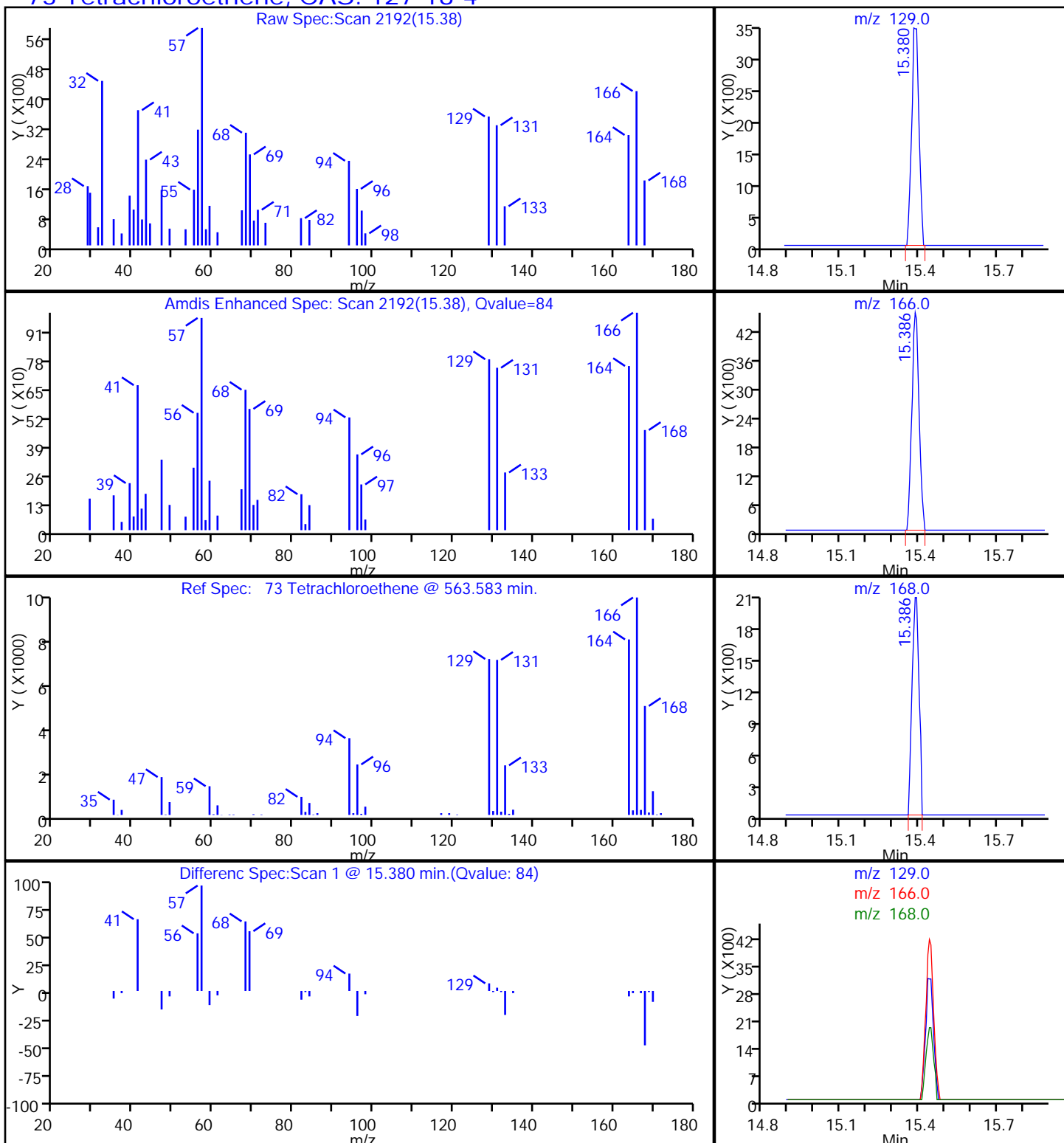
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

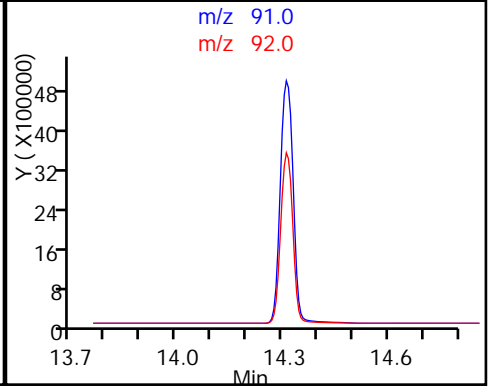
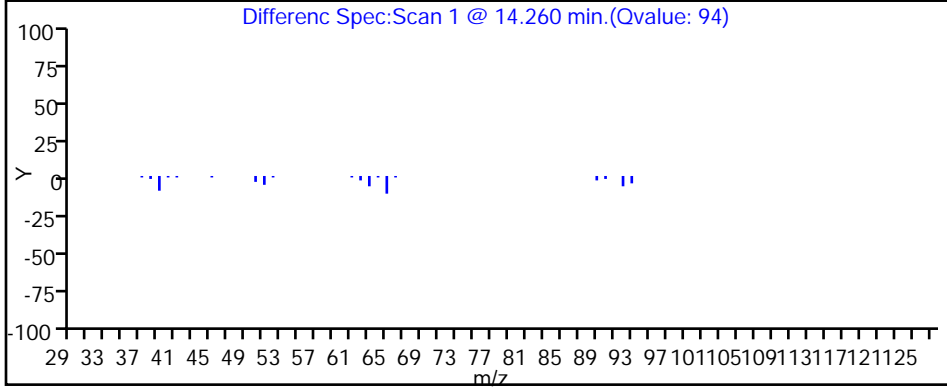
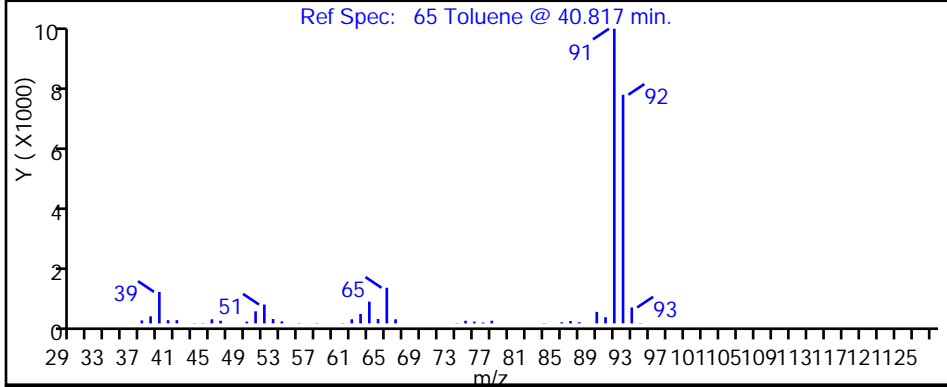
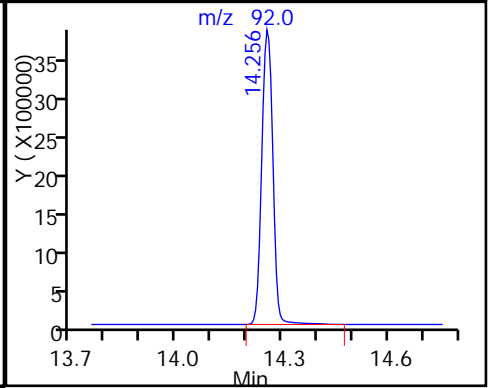
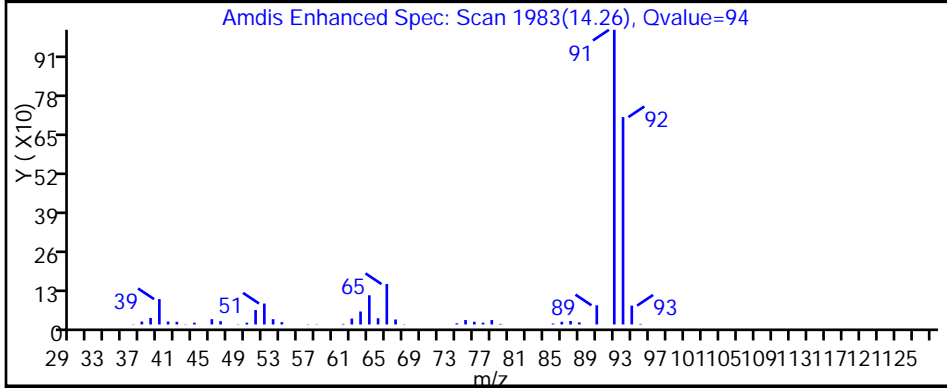
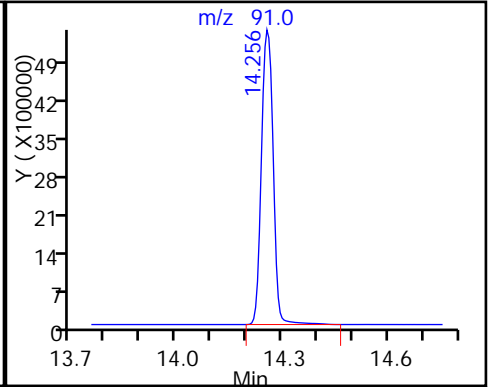
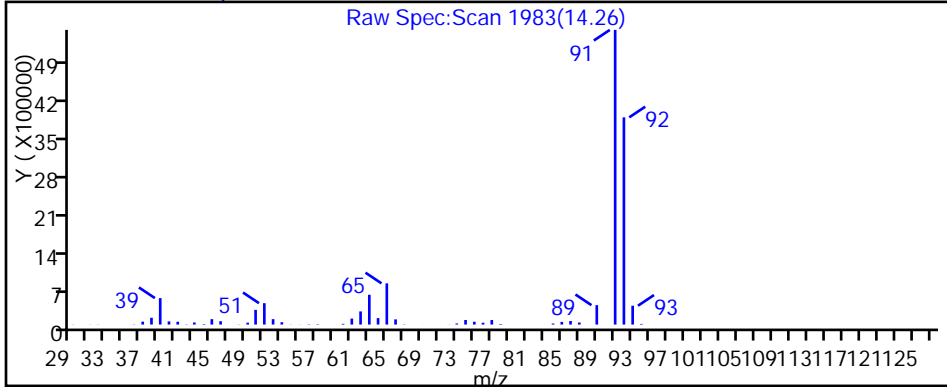
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

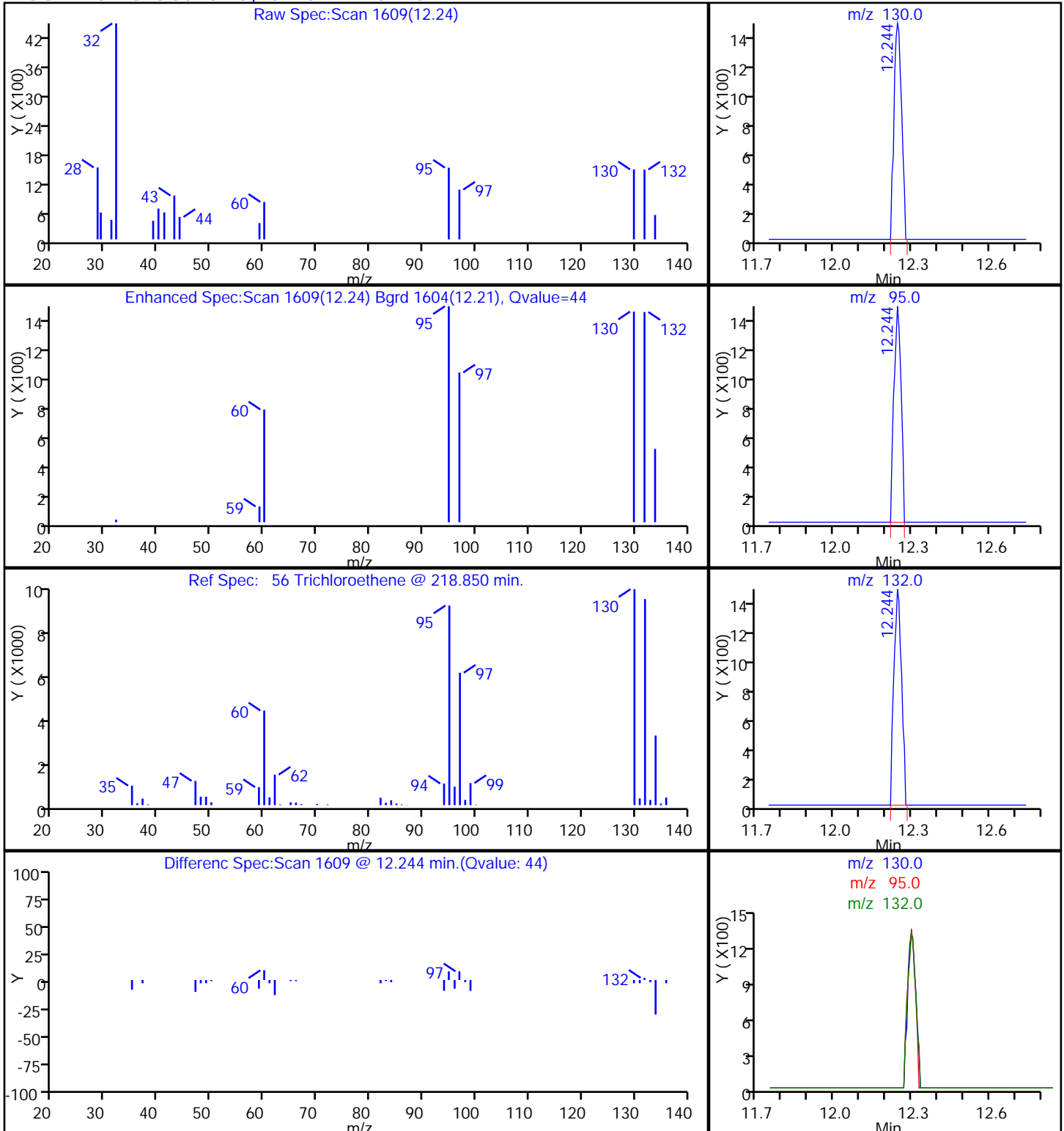
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

56 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D

Injection Date: 18-Mar-2014 21:00:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

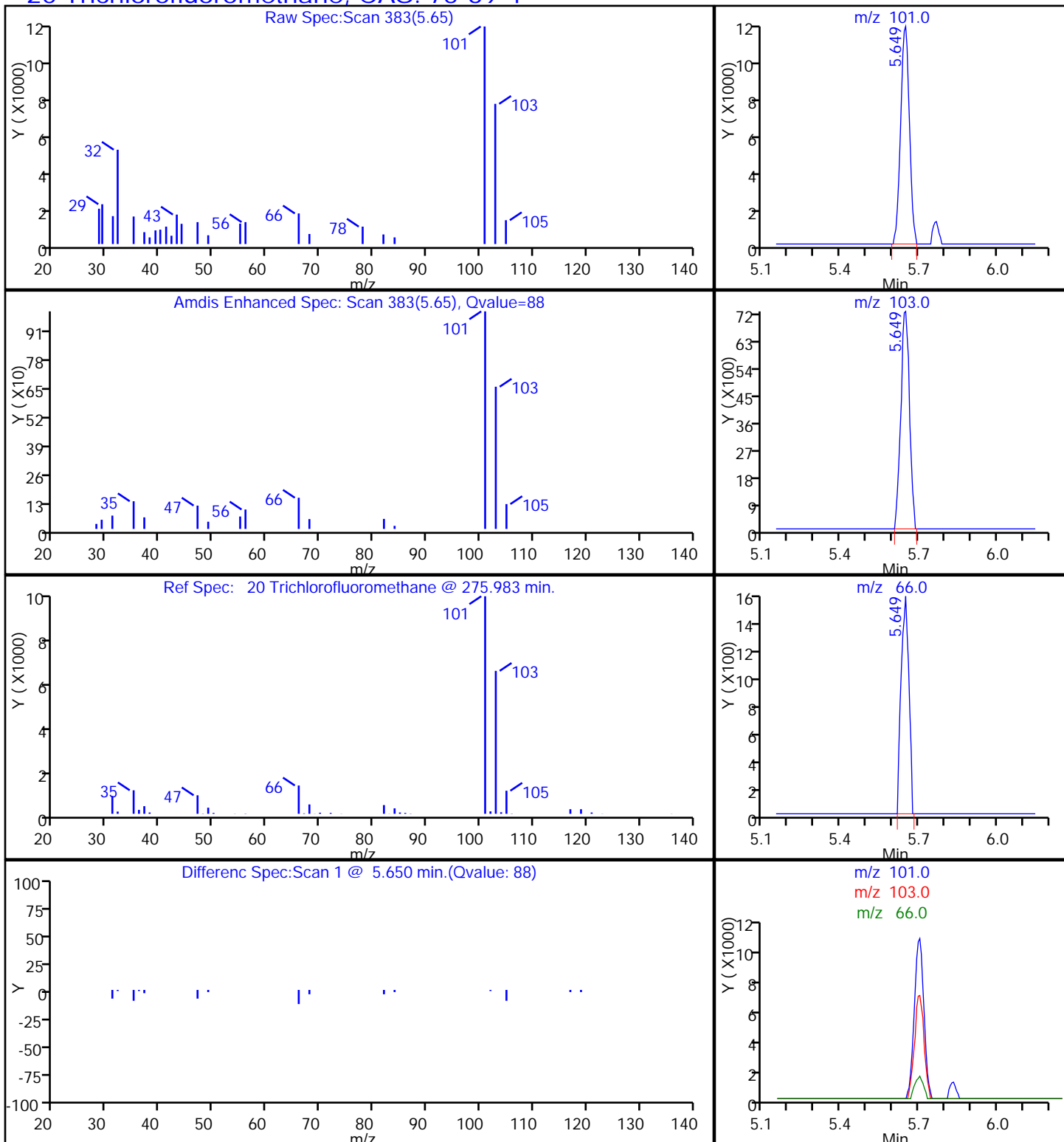
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



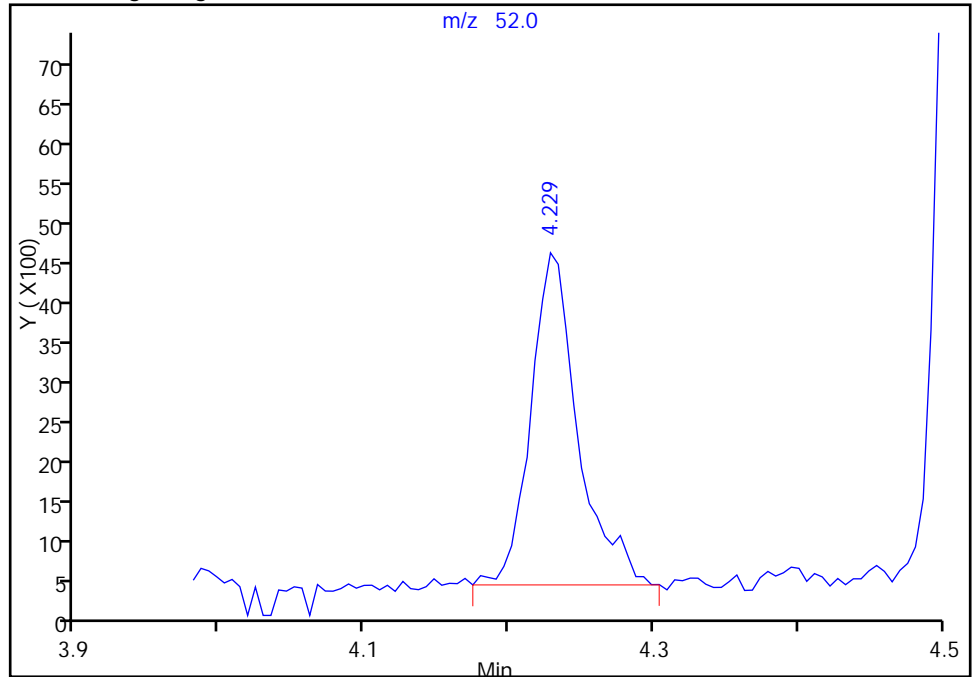
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P203.D
Injection Date: 18-Mar-2014 21:00:30 Instrument ID: MJ
Lims ID: 140-1063-A-16 Lab Sample ID: 140-1063-16
Client ID: PCV-IA1-B5
Operator ID: 403648 ALS Bottle#: 3 Worklist Smp#: 24
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

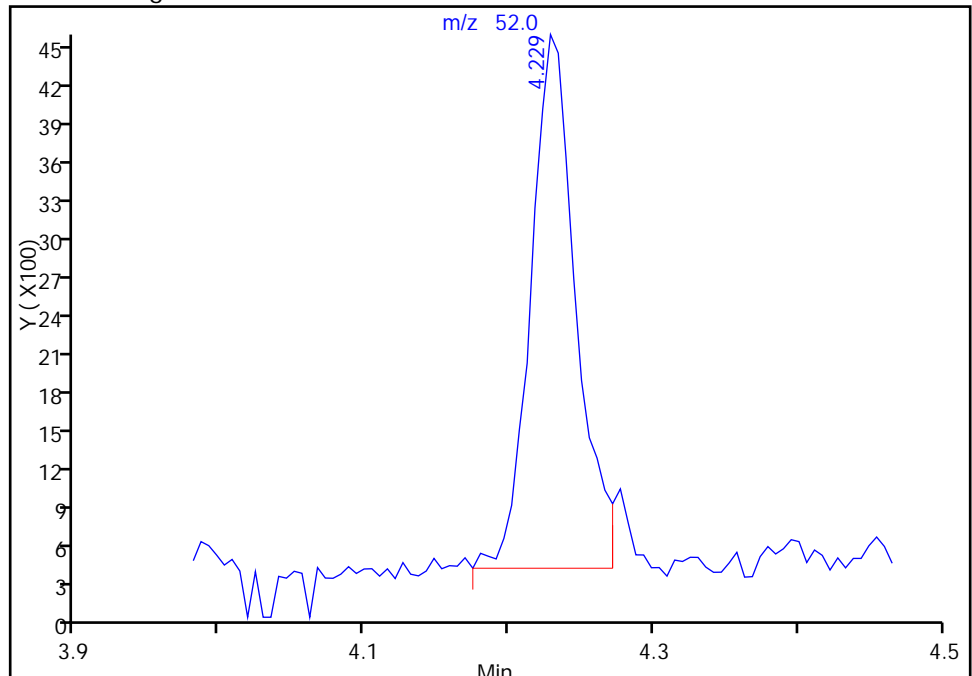
RT: 4.23
Response: 9544
Amount: 0.247614

Processing Integration Results



RT: 4.23
Response: 9158
Amount: 0.237600

Manual Integration Results



Reviewer: barlozhetskayaa, 19-Mar-2014 11:04:31
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 DL Lab Sample ID: 140-1063-16 DL
 Matrix: Air Lab File ID: JC19P101R.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 11(mL) Date Analyzed: 03/20/2014 07:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	260		91	25
64-17-5	Ethanol	46.07	200		36	36
108-88-3	Toluene	92.14	110		3.6	2.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA1-B5 DL Lab Sample ID: 140-1063-16 DL
 Matrix: Air Lab File ID: JC19P101R.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 11(mL) Date Analyzed: 03/20/2014 07:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	630		220	60
64-17-5	Ethanol	46.07	380		69	69
108-88-3	Toluene	92.14	420		14	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D
 Lims ID: 140-1063-A-16 Lab Sample ID: 140-1063-16
 Client ID: PCV-IA1-B5
 Sample Type: Client
 Inject. Date: 20-Mar-2014 07:15:30 ALS Bottle#: 1 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-A-16
 Misc. Info.: J031914,TO15,,140-0000532-006
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:58:28 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 13:00:06

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.385	-0.003	90	359963	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1774737	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1432488	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	890621	3.52	
7 Propene	41	3.986	3.973	0.013	38	178877	1.62	
14 Butadiene	54	4.514	4.516	-0.002	26	3300	0.0356	
17 Ethanol	31	5.116	5.119	-0.003	94	128458	4.45	
19 2-Methylbutane	43	5.412	5.409	0.003	88	12213	0.0799	
23 Acetone	58	5.762	5.770	-0.008	98	297624	5.82	
24 Isopropyl alcohol	45	5.864	5.850	0.014	26	11659	0.0863	
31 Methylene Chloride	84	6.757	6.754	0.003	95	33383	0.3467	
44 Tetrahydrofuran	42	9.672	9.799	-0.127	17	7523	0.0902	
64 trans-1,3-Dichloropropene	75	14.250	14.119	0.131	4	3905	0.0329	
65 Toluene	91	14.250	14.253	-0.003	94	651964	2.45	
76 Ethylbenzene	91	16.526	16.529	-0.003	80	19485	0.0664	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	98	61065	0.2578	
82 o-Xylene	91	17.209	17.212	-0.003	76	18302	0.0762	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D

Injection Date: 20-Mar-2014 07:15:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Worklist Smp#: 23

Client ID: PCV-IA1-B5

Purge Vol: 500.000 mL

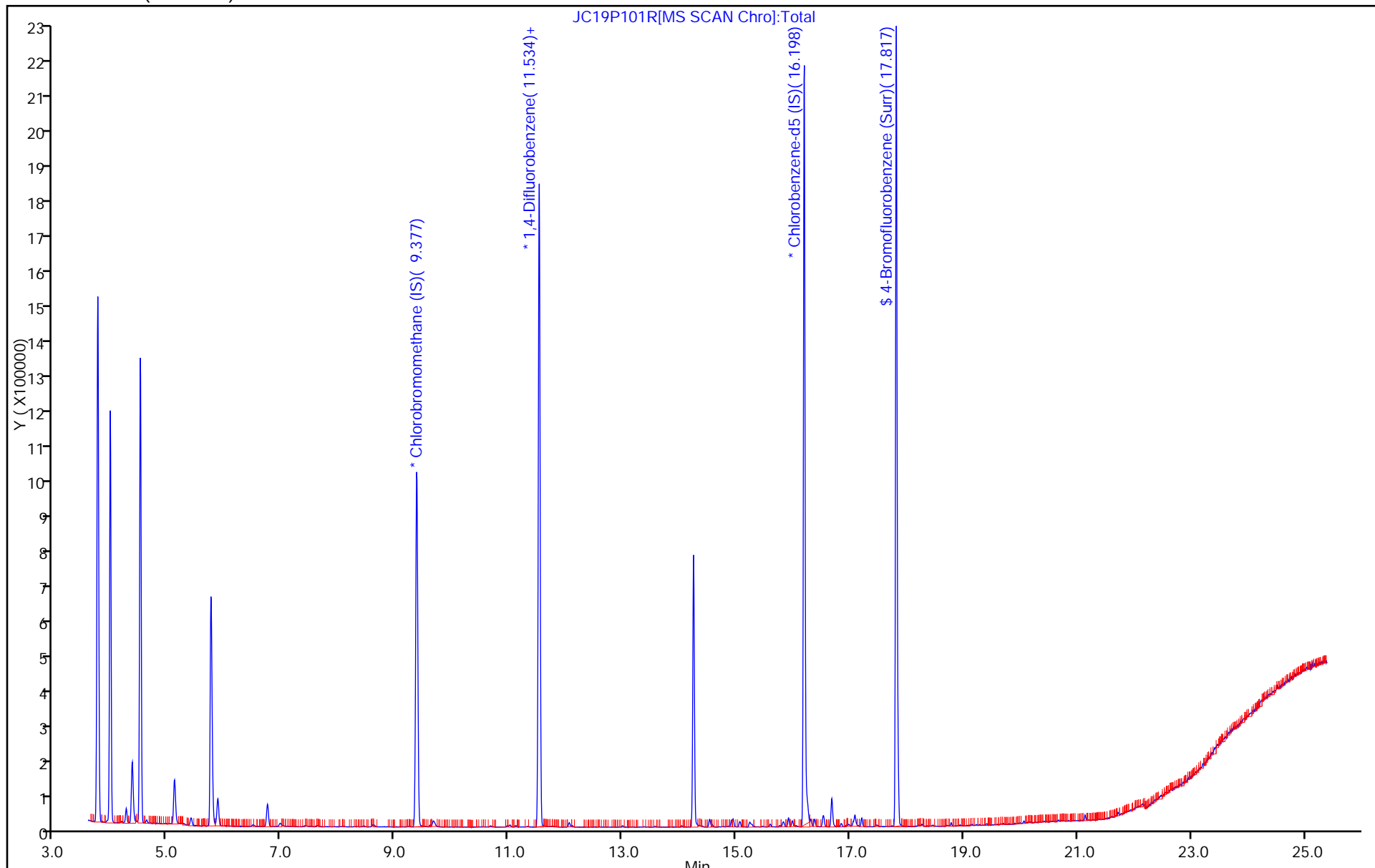
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D

Injection Date: 20-Mar-2014 07:15:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

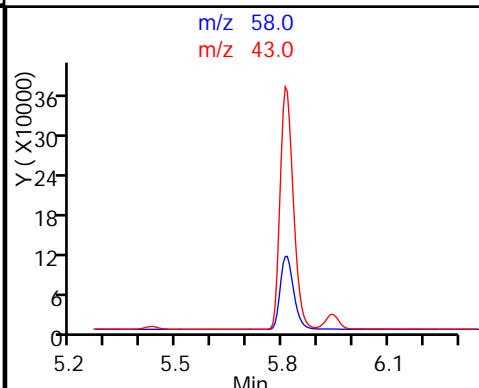
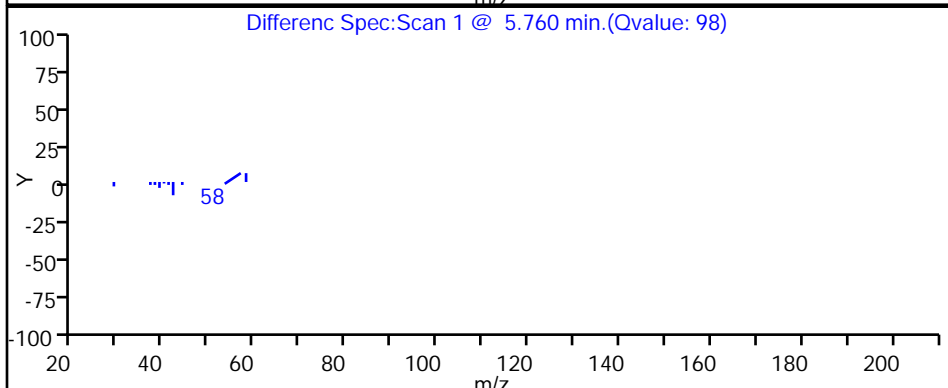
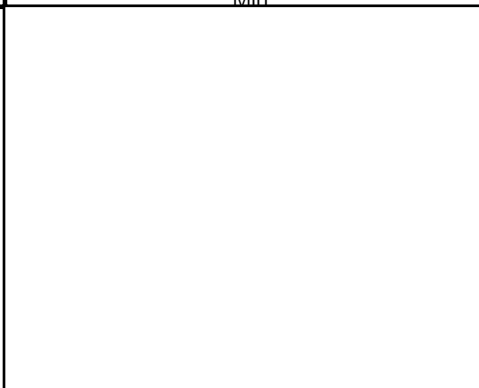
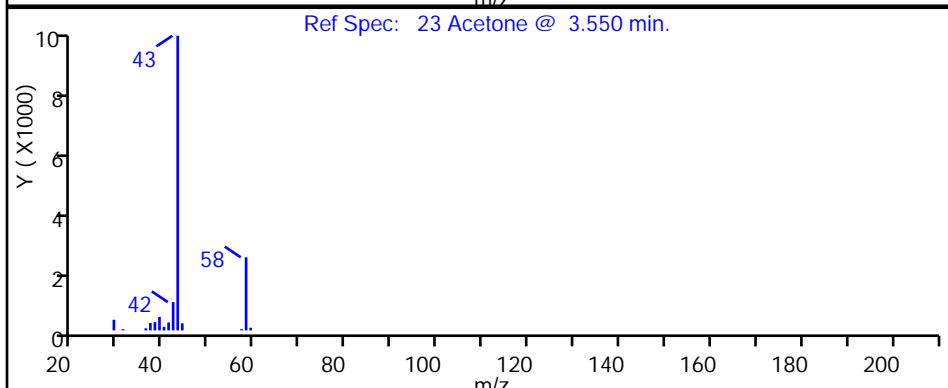
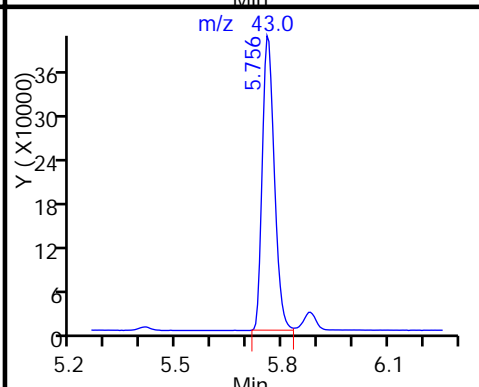
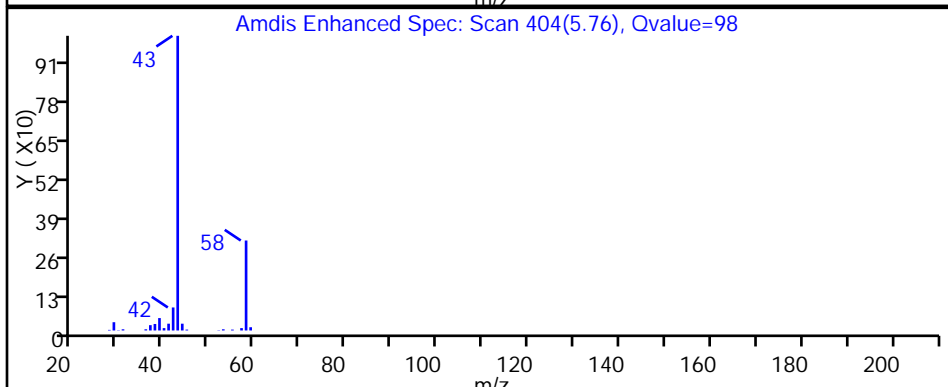
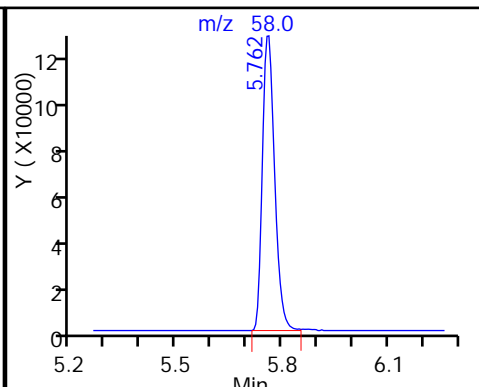
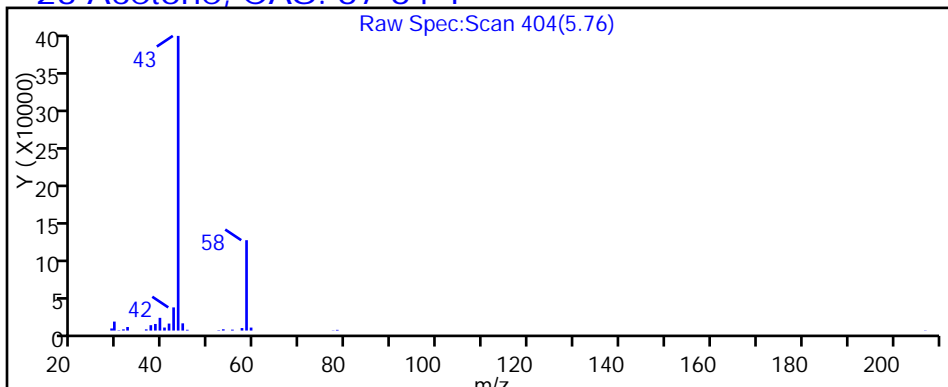
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D

Injection Date: 20-Mar-2014 07:15:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

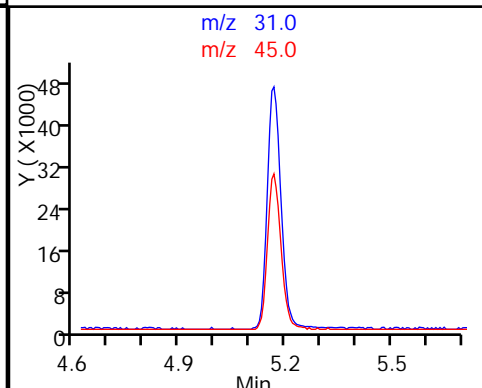
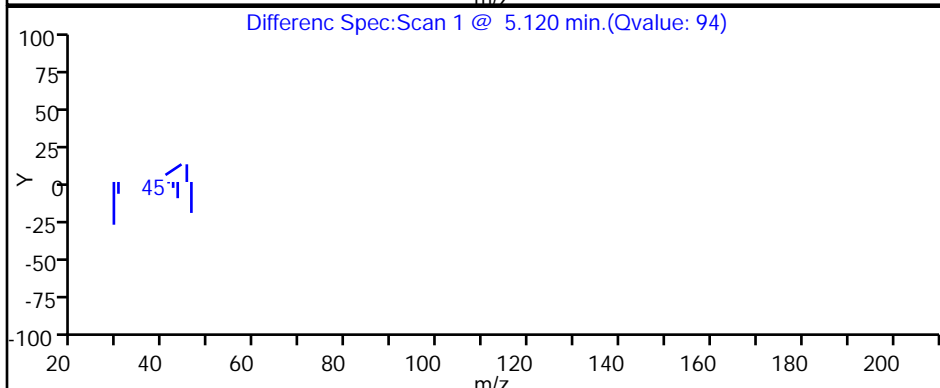
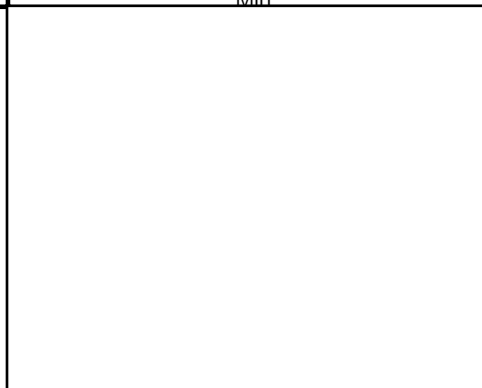
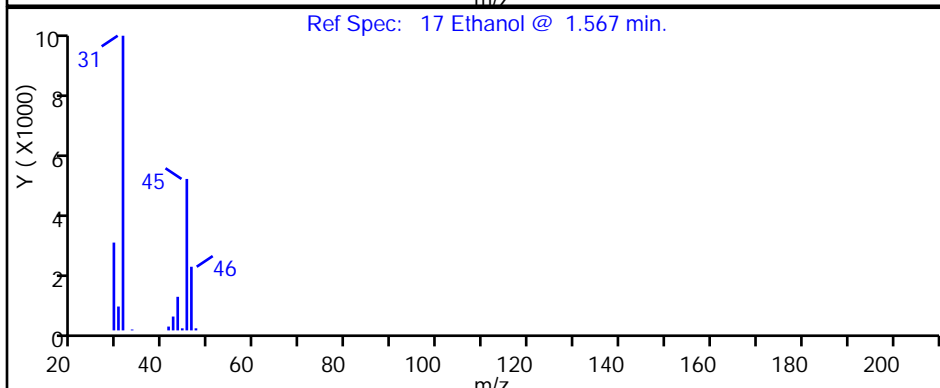
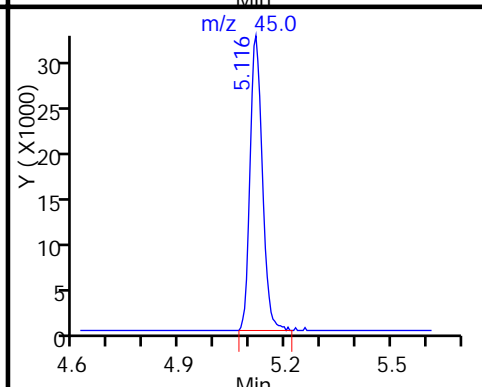
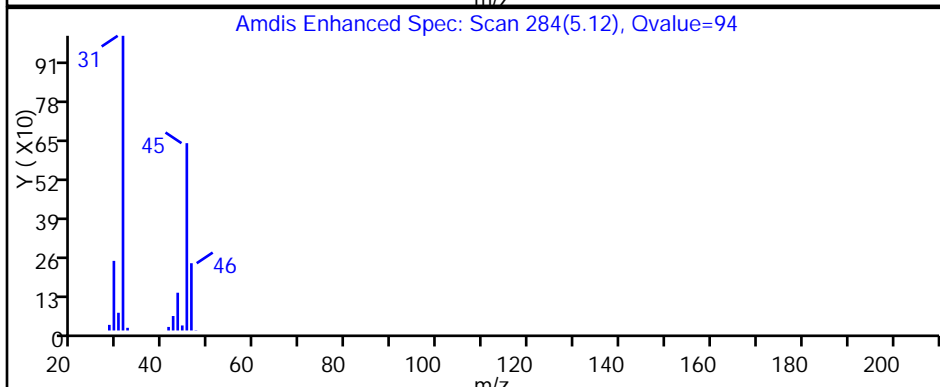
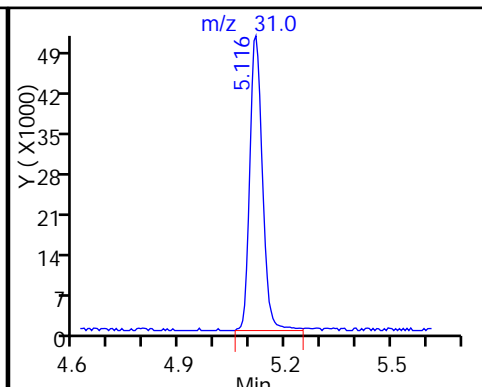
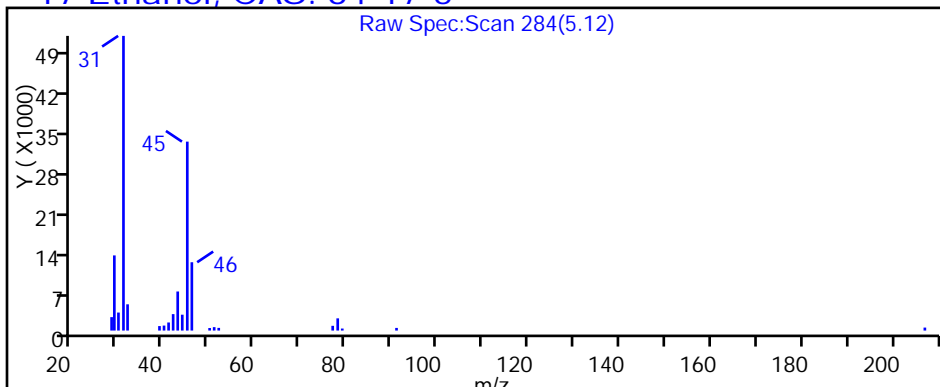
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P101R.D

Injection Date: 20-Mar-2014 07:15:30

Instrument ID: MJ

Lims ID: 140-1063-A-16

Lab Sample ID: 140-1063-16

Client ID: PCV-IA1-B5

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

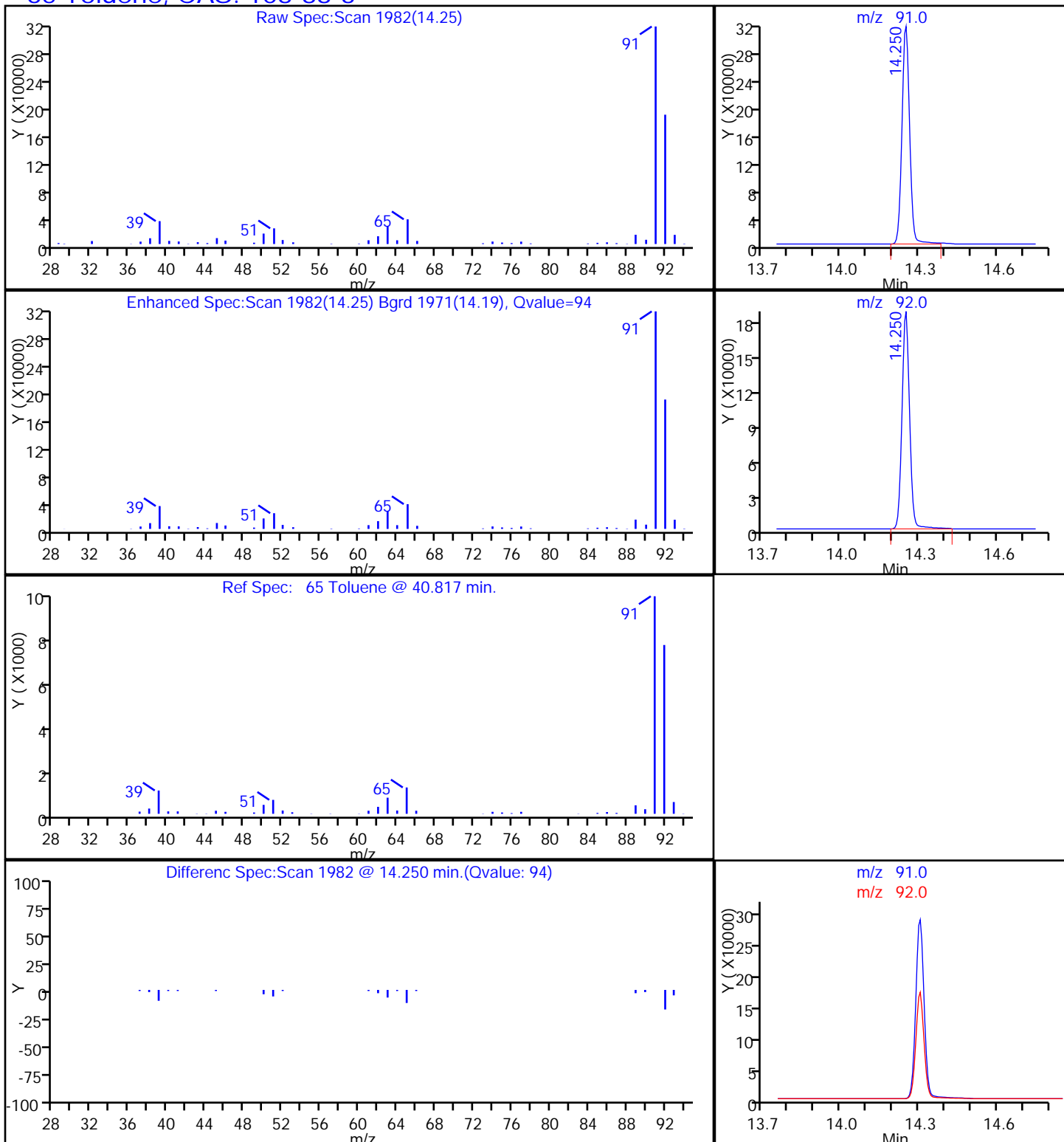
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17
 Matrix: Air Lab File ID: JC18P216.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.35		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.089	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.16	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	3.3		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	3.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.32		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.19	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.62		0.50	0.045
67-64-1	Acetone	58.08	230	E	5.0	1.4
71-43-2	Benzene	78.11	0.39		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.24	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17
 Matrix: Air Lab File ID: JC18P216.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.089	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.18	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	200		2.0	2.0
100-41-4	Ethylbenzene	106.17	3.2		0.20	0.068
142-82-5	Heptane	100.21	0.44	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.38	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.5		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	17		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	12		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	3.3		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	0.91		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.12	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	0.19	J	1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	100	E	0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.061	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17
 Matrix: Air Lab File ID: JC18P216.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 09:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17
 Matrix: Air Lab File ID: JC18P216.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.44	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.75	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	9.8		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	9.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	1.1		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.91	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.6		2.0	0.18
67-64-1	Acetone	58.08	540	E	12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.74	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17
 Matrix: Air Lab File ID: JC18P216.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 09:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.43	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.63	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	370		3.8	3.8
100-41-4	Ethylbenzene	106.17	14		0.87	0.30
142-82-5	Heptane	100.21	1.8	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.3	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	11		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	59		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	53		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	14		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	3.9		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.80	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	0.55	J	2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	380	E	0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.33	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 Lab Sample ID: 140-1063-17
 Matrix: Air Lab File ID: JC18P216.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 09:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D
 Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17
 Client ID: PCV-IA2-B5
 Sample Type: Client
 Inject. Date: 19-Mar-2014 09:39:30 ALS Bottle#: 16 Worklist Smp#: 28
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-17
 Misc. Info.: J031814,TO15,,140-0000527-028
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 13:07:59 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 13:07:59

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.388	0.0	90	368949	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	94	1720971	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1485170	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	1020779	3.89	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	96	61943	0.1695	
9 Chloromethane	52	4.223	4.229	-0.006	96	8562	0.2062	M
17 Ethanol	31	5.127	5.116	0.011	93	2342311	79.1	
19 2-Methylbutane	43	5.407	5.407	0.0	92	200493	1.28	
20 Trichlorofluoromethane	101	5.643	5.644	-0.001	89	28397	0.0885	
23 Acetone	58	5.762	5.767	-0.005	95	4756147	90.7	E
24 Isopropyl alcohol	45	5.864	5.848	0.016	72	247079	1.78	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.580	-0.006	52	5914	0.0266	
31 Methylene Chloride	84	6.762	6.757	0.005	95	669289	6.78	
33 Carbon disulfide	76	6.935	6.935	0.0	98	33046	0.0952	
35 2-Methylpentane	43	7.623	7.623	0.0	92	36449	0.1280	
39 2-Butanone (MEK)	72	8.591	8.586	0.005	100	46608	1.33	
40 Hexane	56	8.629	8.635	-0.006	79	15004	0.1513	
43 Chloroform	83	9.398	9.393	0.005	14	7658	0.0356	
44 Tetrahydrofuran	42	9.823	9.802	0.021	47	6342	0.0742	
48 Benzene	78	11.023	11.023	0.0	95	46141	0.1563	
49 Cyclohexane	69	11.028	11.034	-0.006	48	4238	0.0727	
50 Carbon tetrachloride	117	11.050	11.050	0.0	86	6631	0.0272	
53 Isooctane	57	11.760	11.760	0.0	86	32547	0.0646	
54 n-Heptane	71	12.120	12.120	0.0	86	18392	0.1761	
56 Trichloroethene	130	12.239	12.244	-0.005	52	3510	0.0245	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.368	0.006	93	44960	0.2492	
65 Toluene	91	14.256	14.256	0.0	94	11206388	40.7	E
73 Tetrachloroethene	129	15.380	15.386	-0.006	84	6080	0.0474	
76 Ethylbenzene	91	16.526	16.532	-0.006	98	386540	1.27	
78 m-Xylene & p-Xylene	91	16.682	16.688	-0.006	99	1207261	4.92	
80 Styrene	104	17.150	17.150	0.0	97	61644	0.3655	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
82 o-Xylene	91	17.209	17.215	-0.006	99	326501	1.31	
88 4-Ethyltoluene	105	18.447	18.447	0.0	79	24603	0.0744	
89 1,3,5-Trimethylbenzene	120	18.511	18.517	-0.006	79	5913	0.0356	
93 1,2,4-Trimethylbenzene	105	18.941	18.942	-0.001	93	39861	0.1382	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Worklist Smp#: 28

Client ID: PCV-IA2-B5

Purge Vol: 500.000 mL

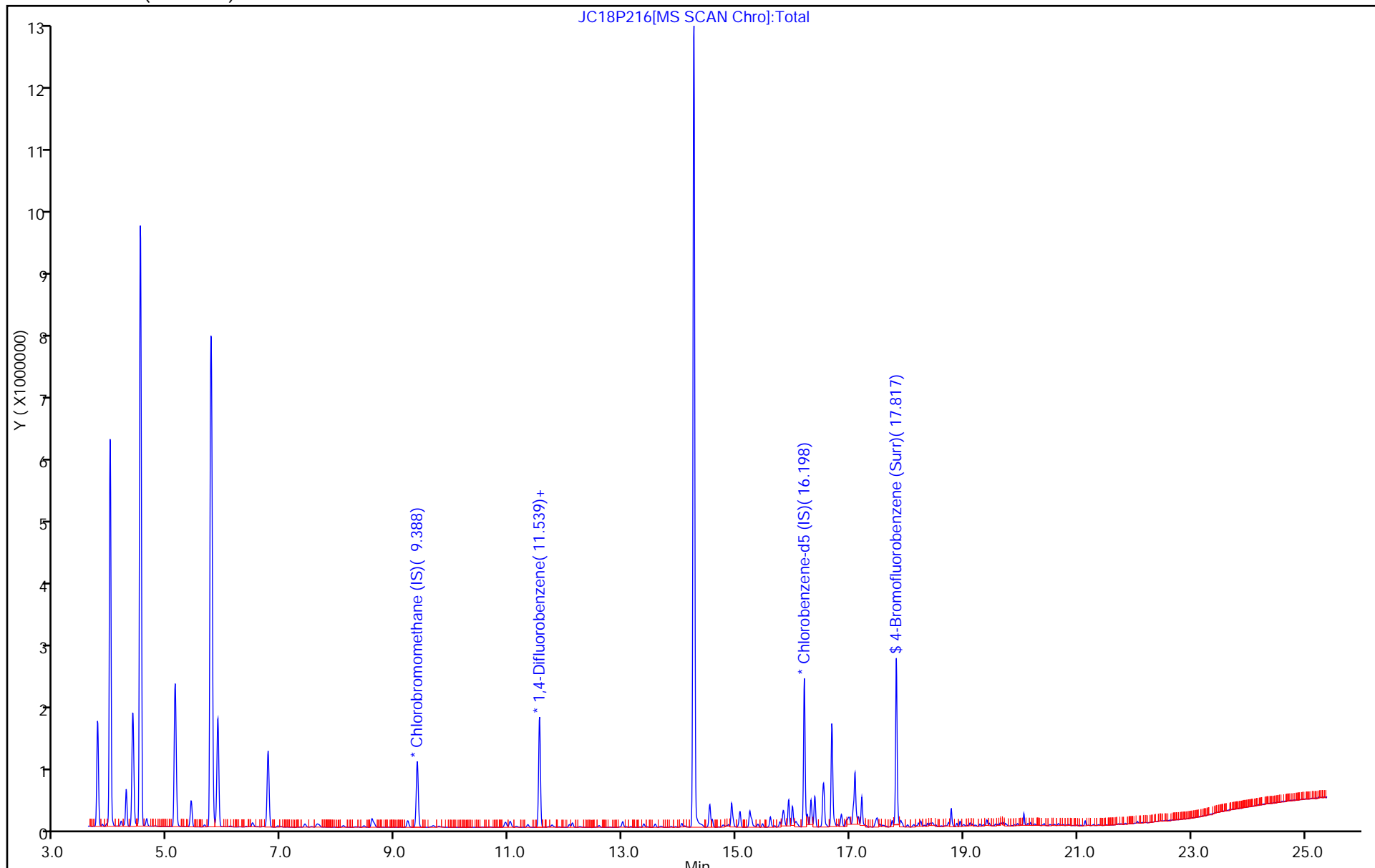
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

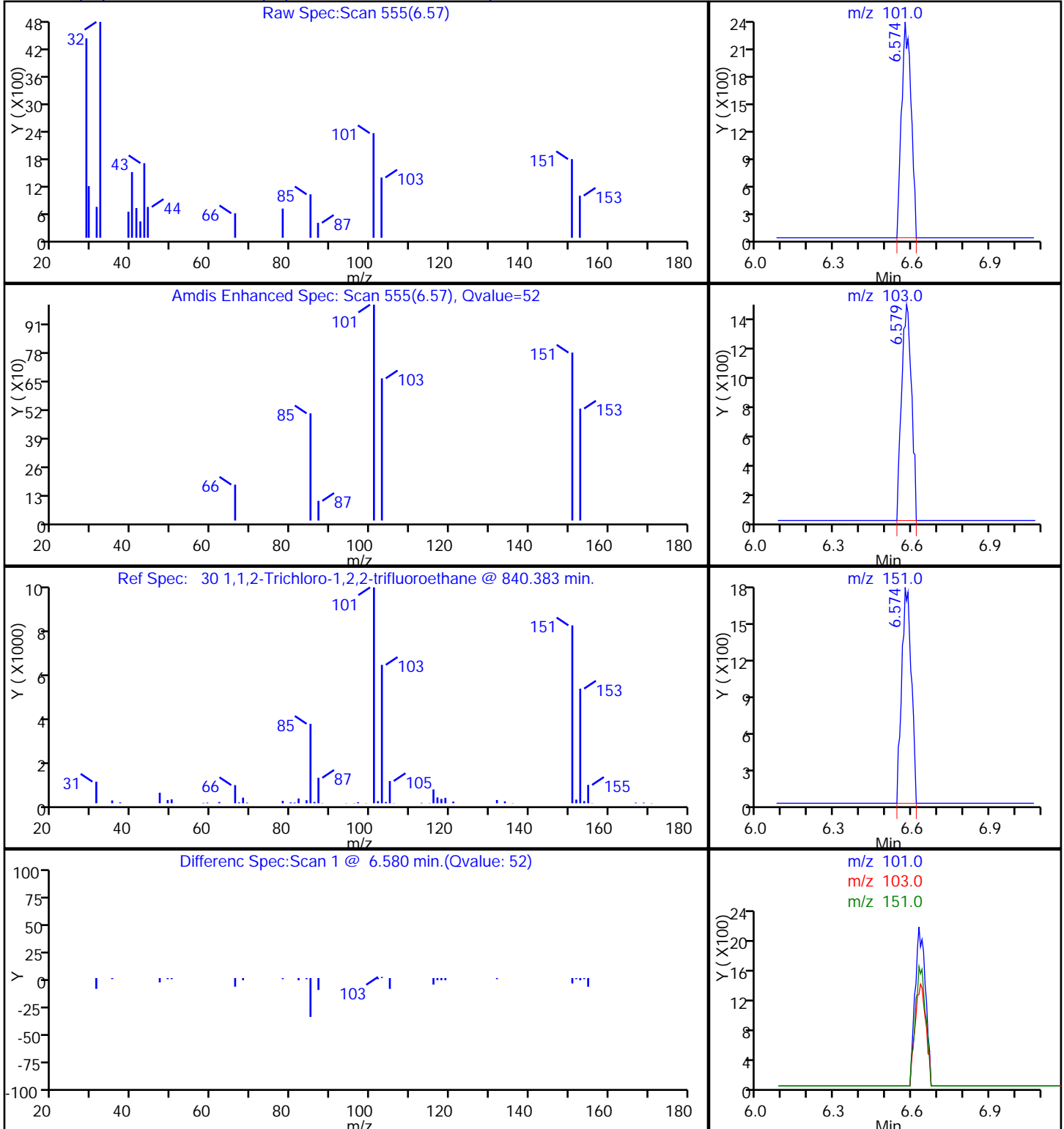
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

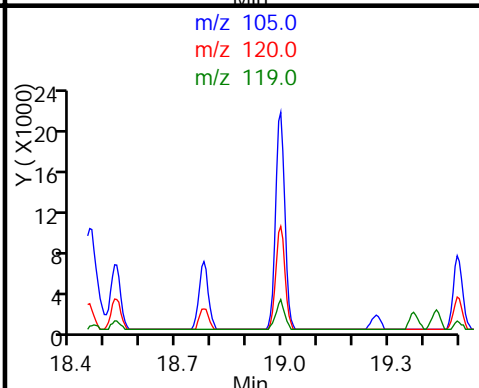
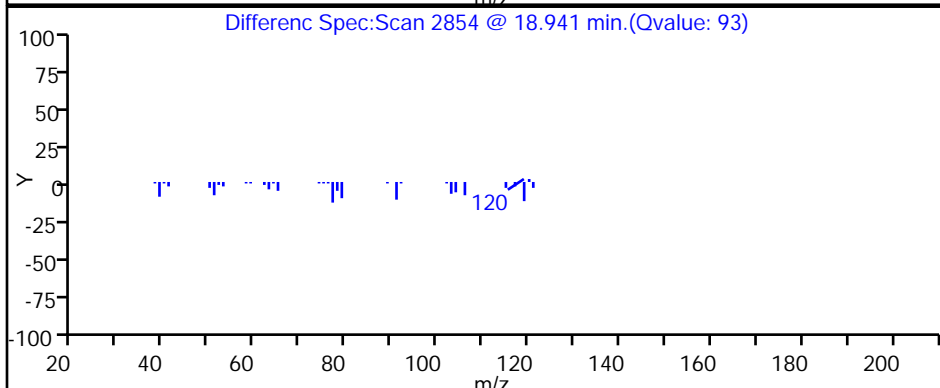
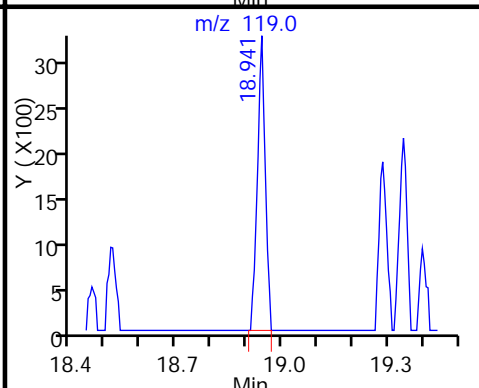
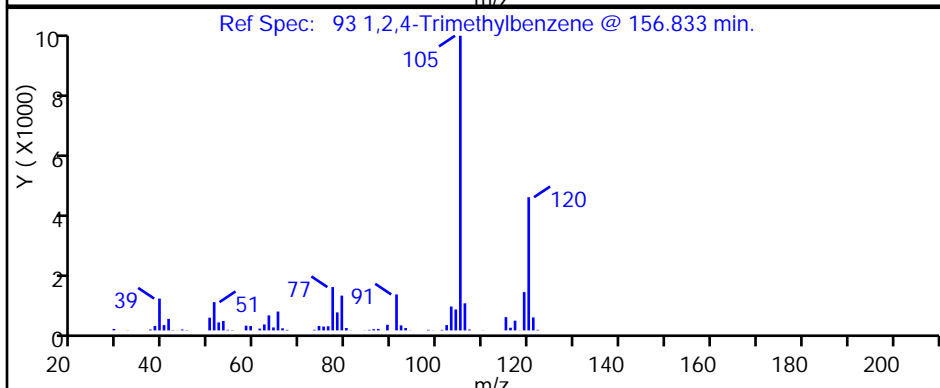
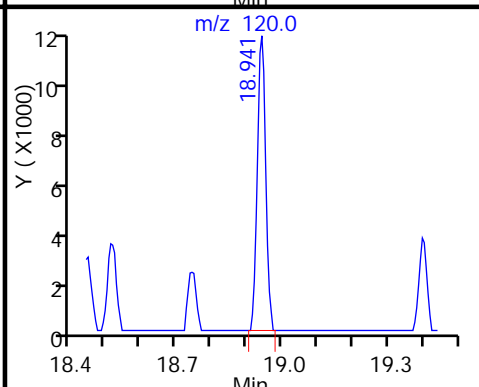
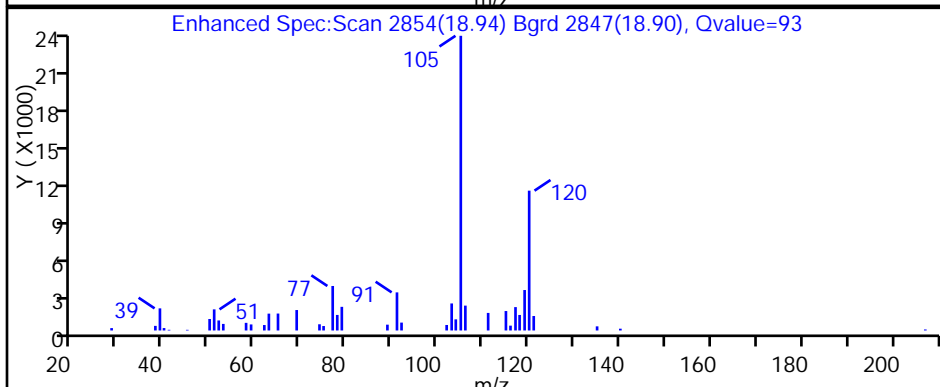
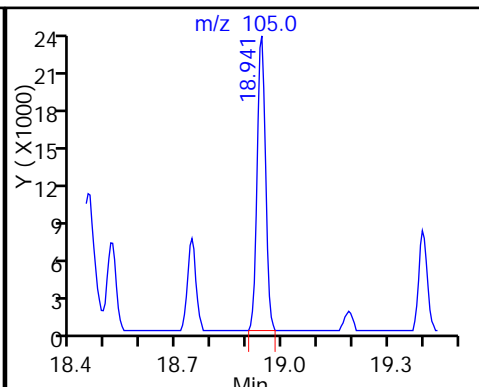
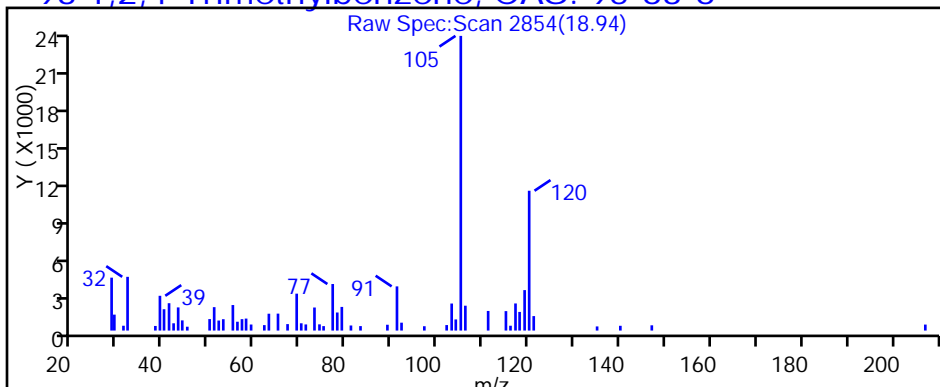
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

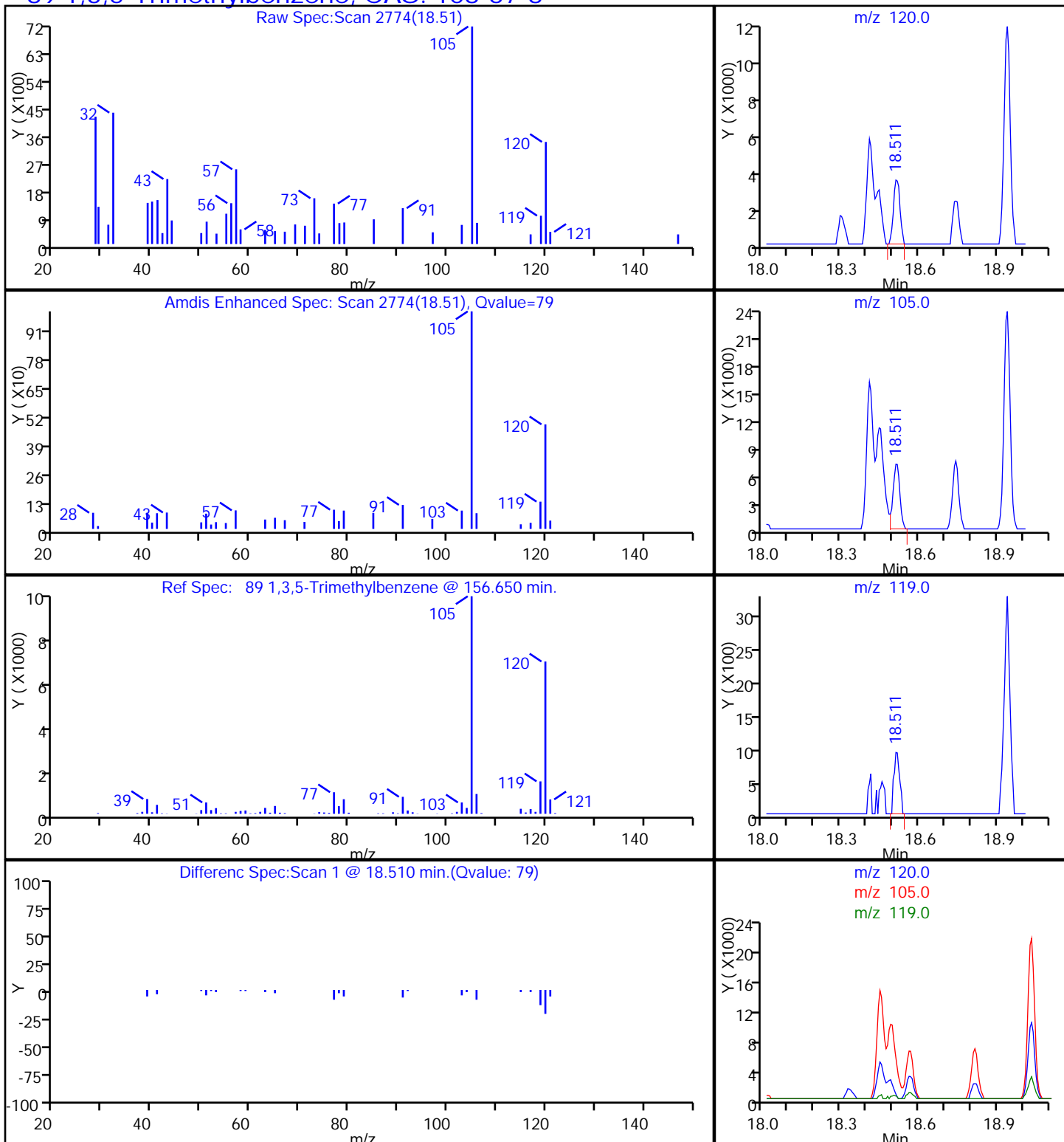
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

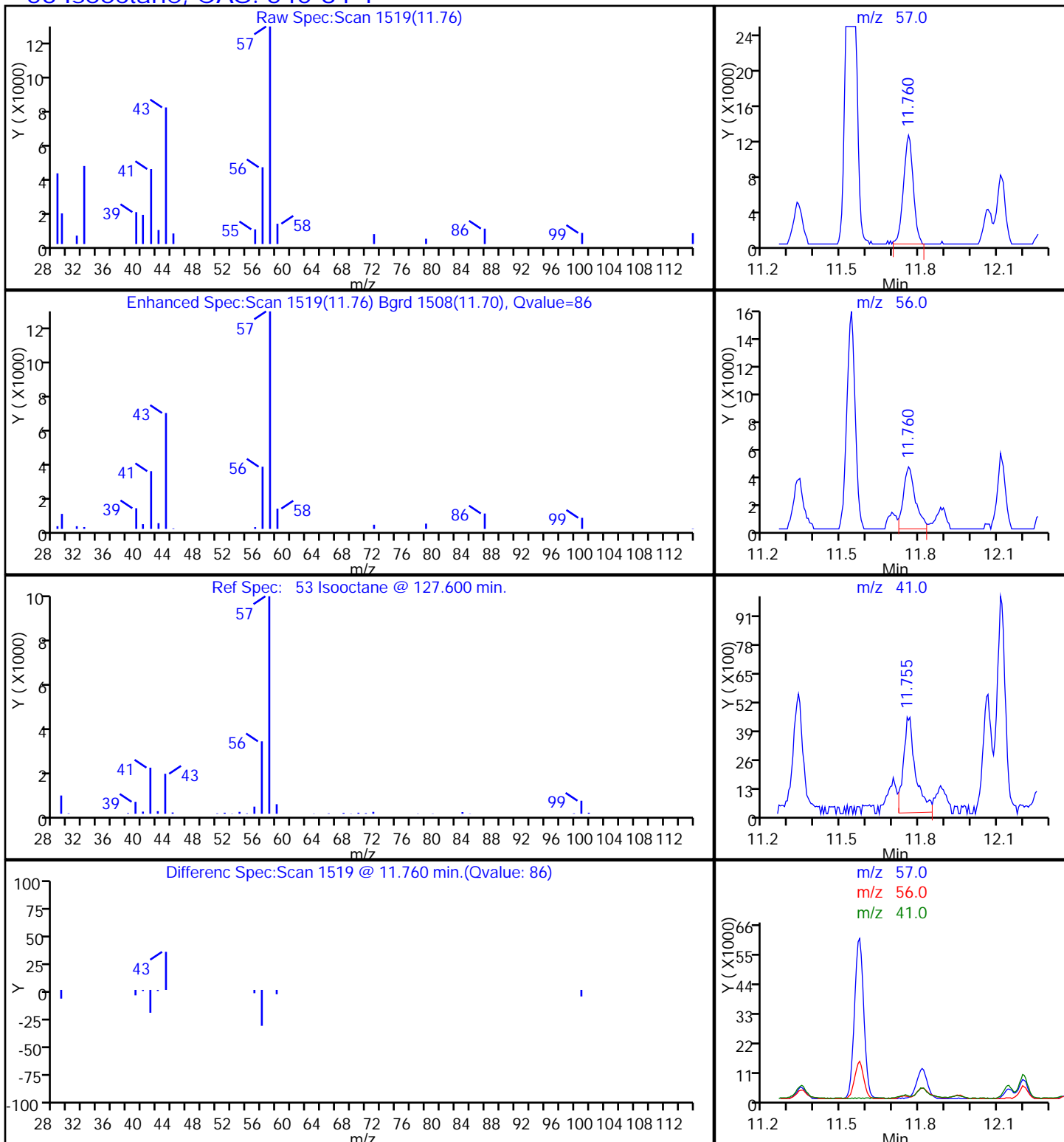
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

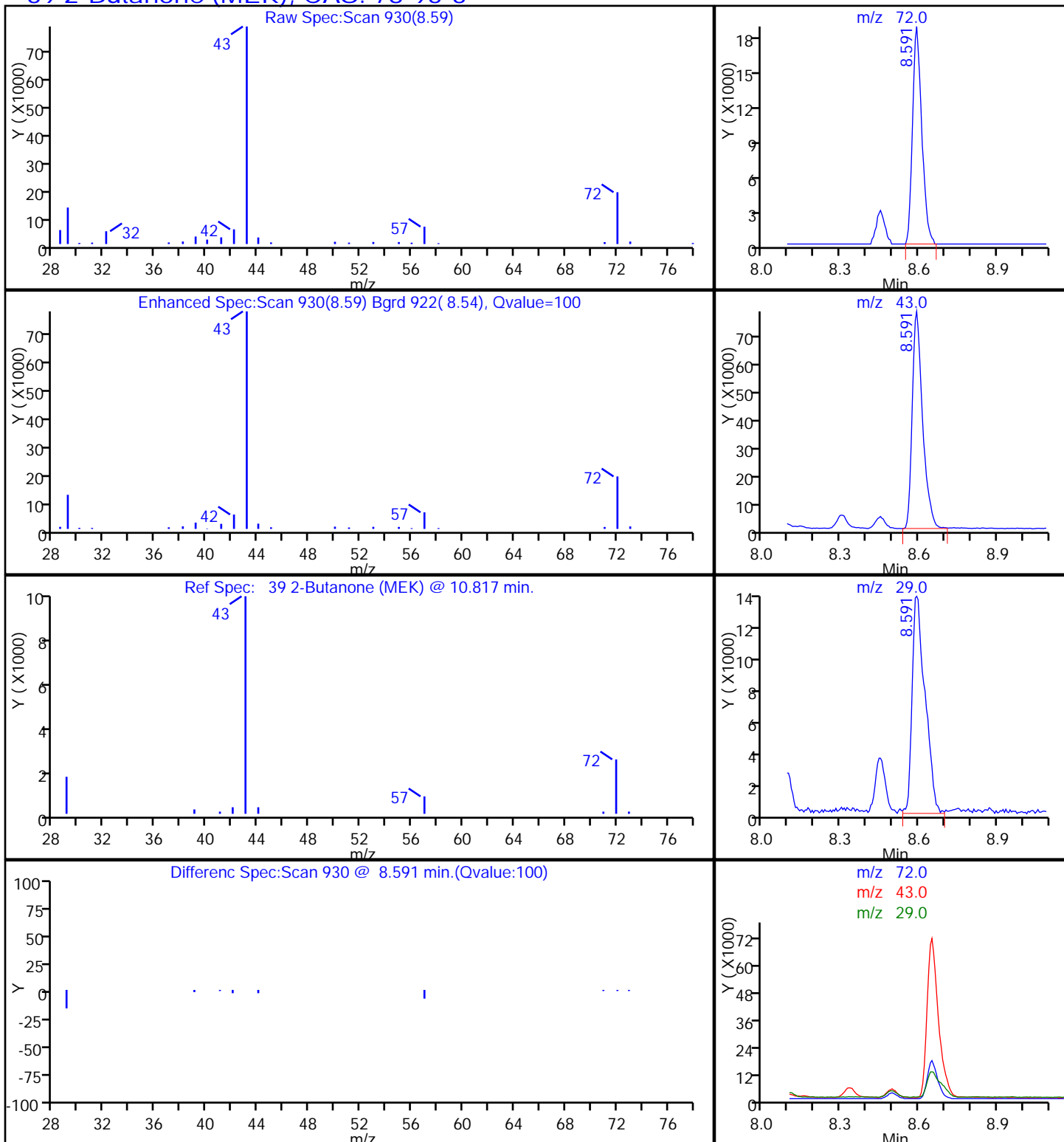
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

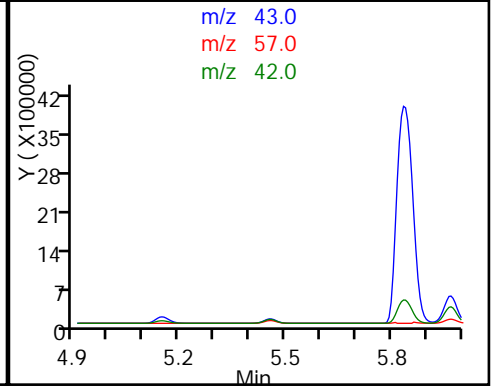
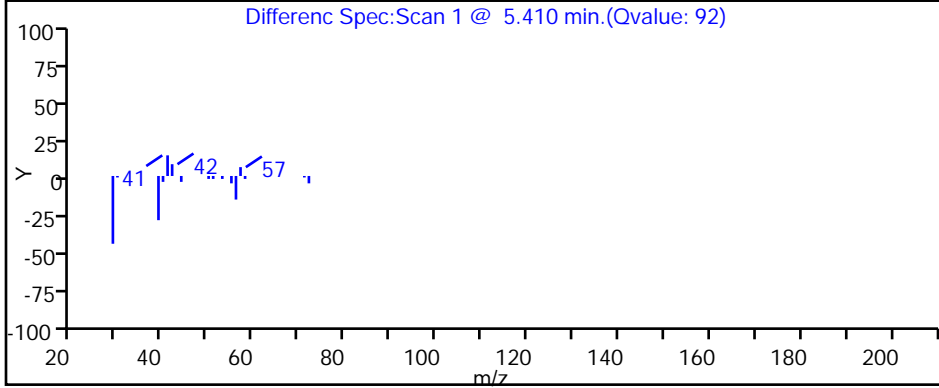
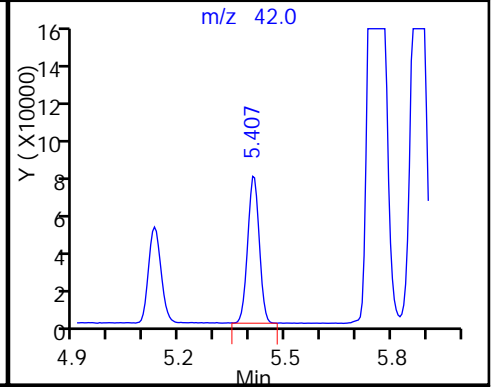
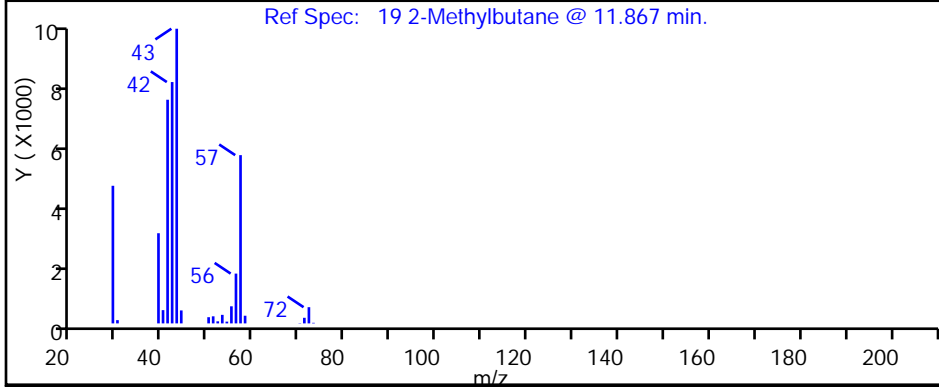
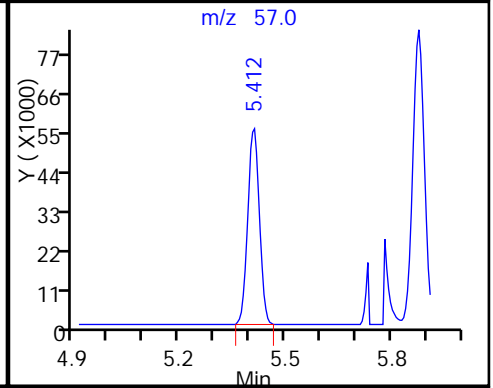
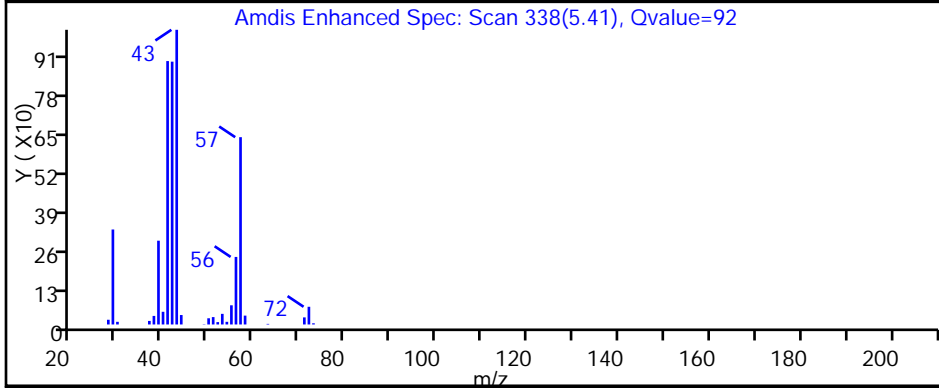
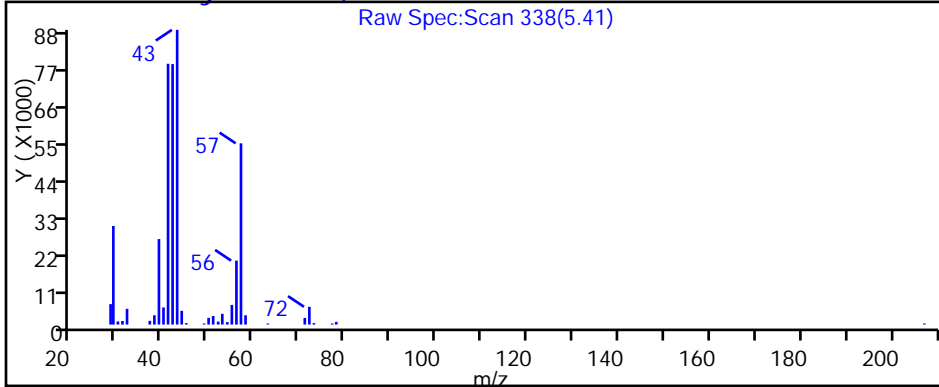
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

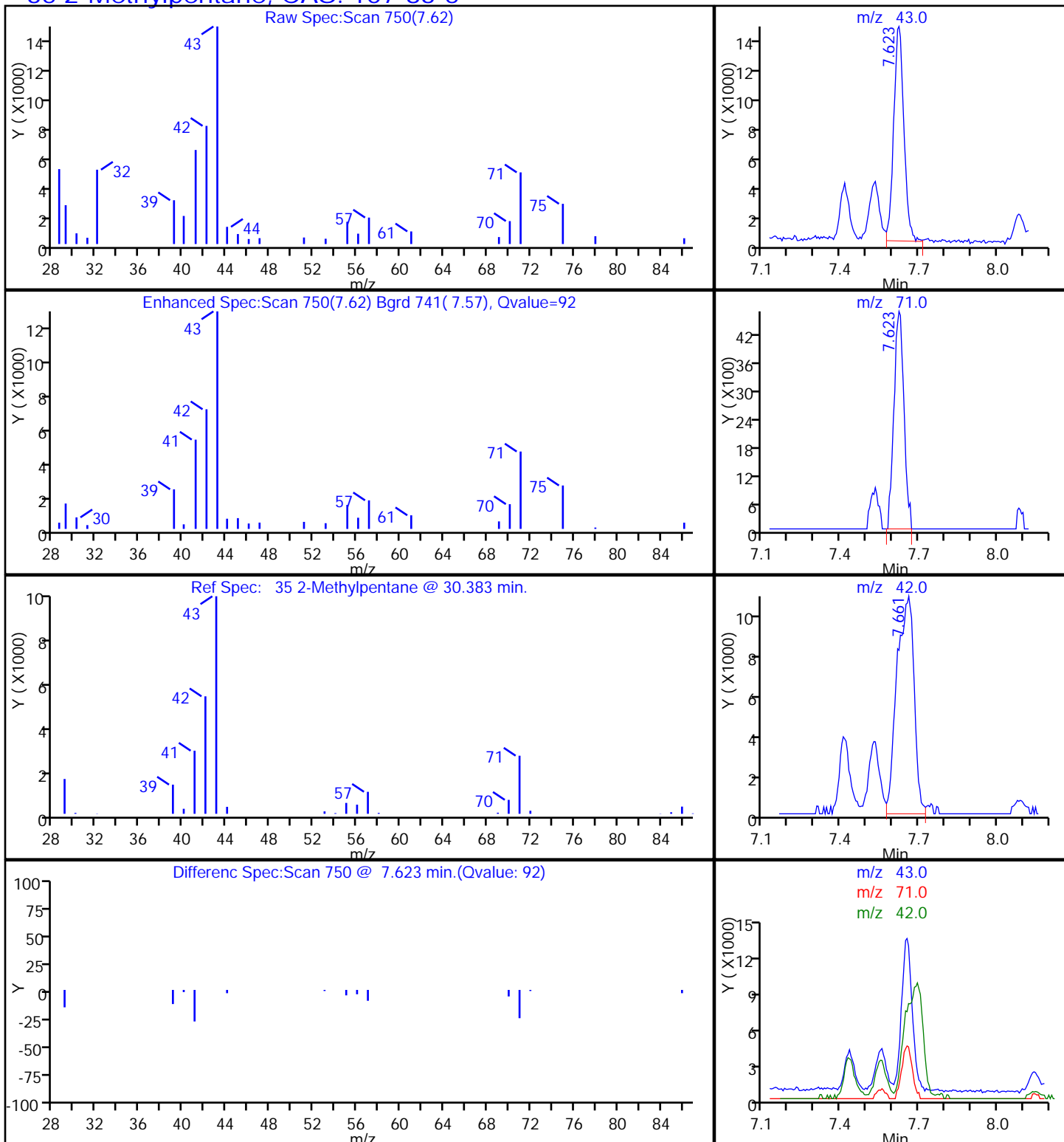
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

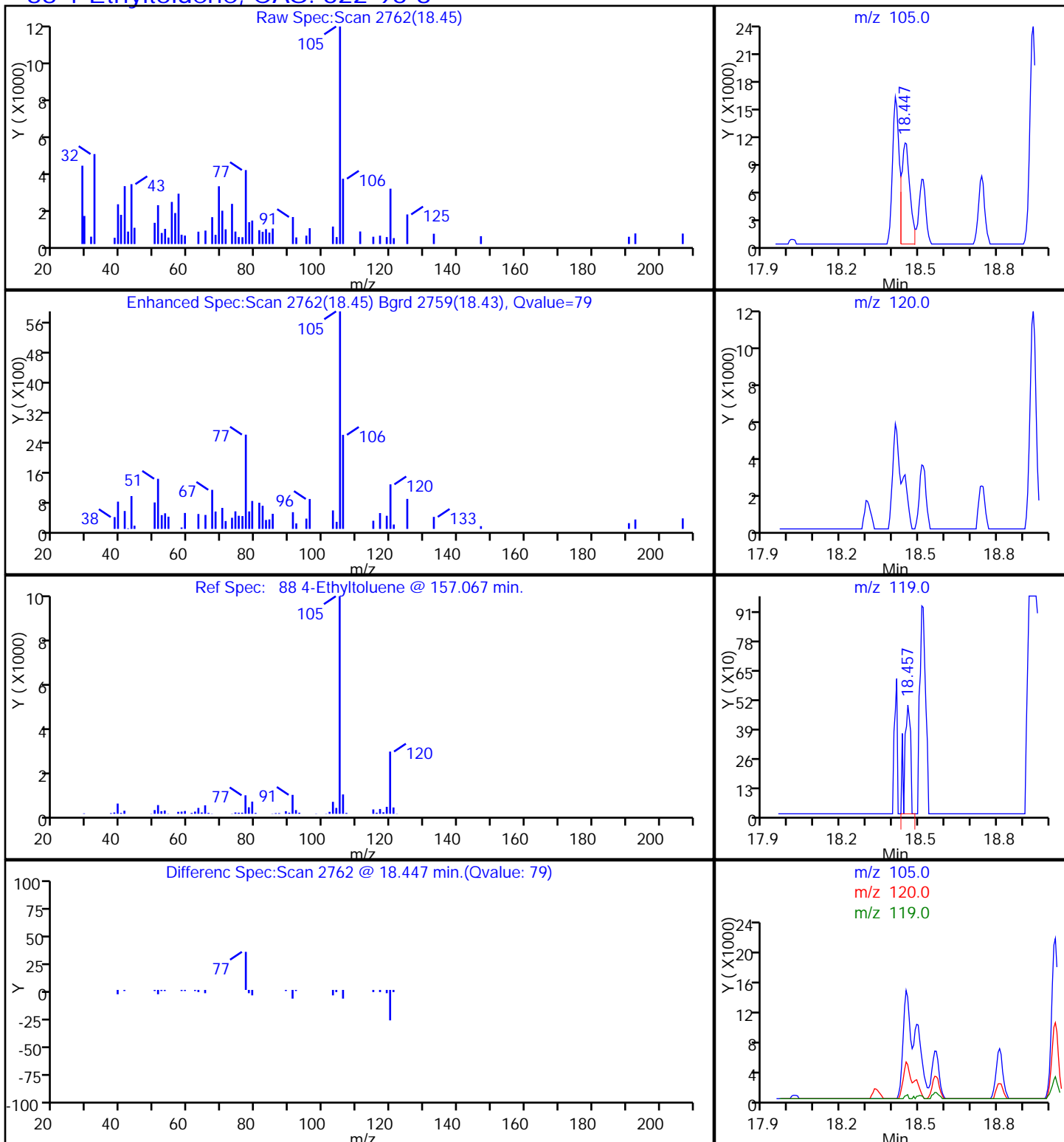
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

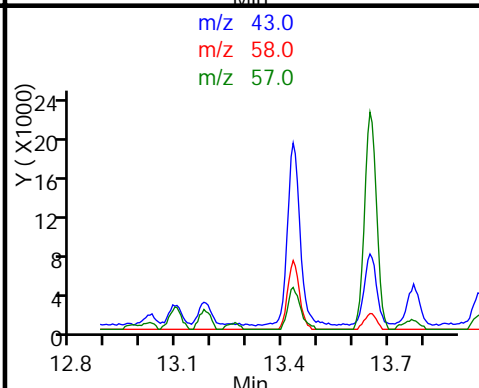
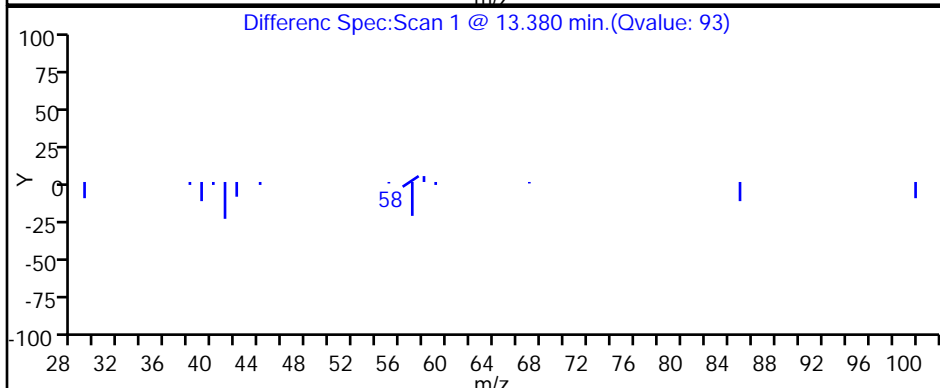
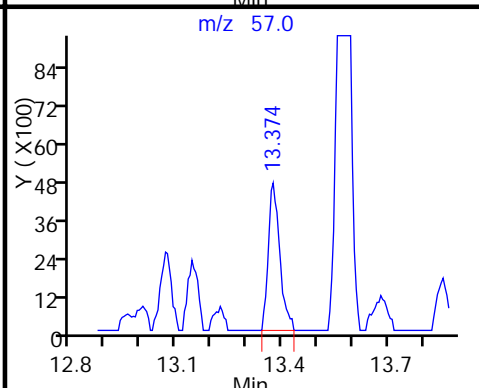
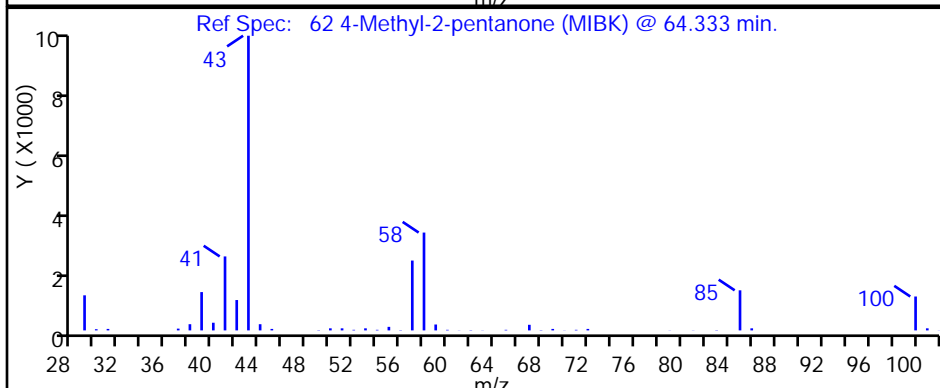
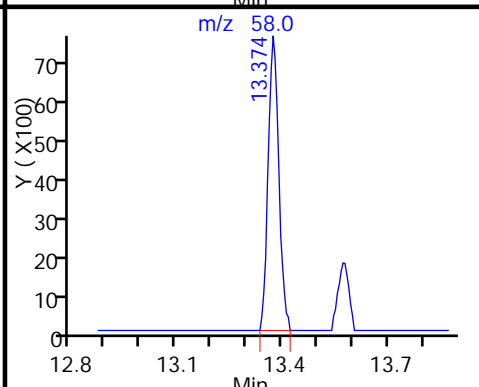
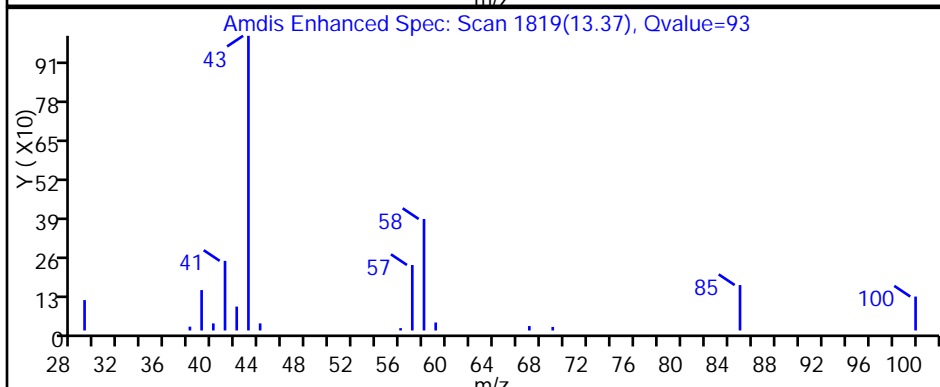
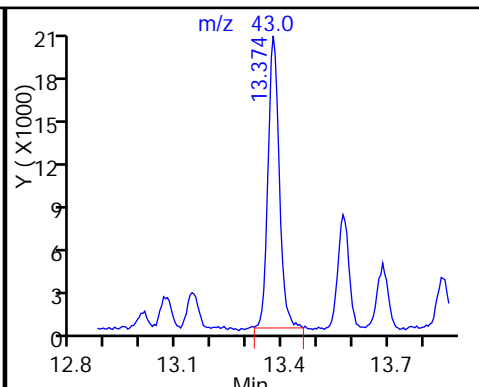
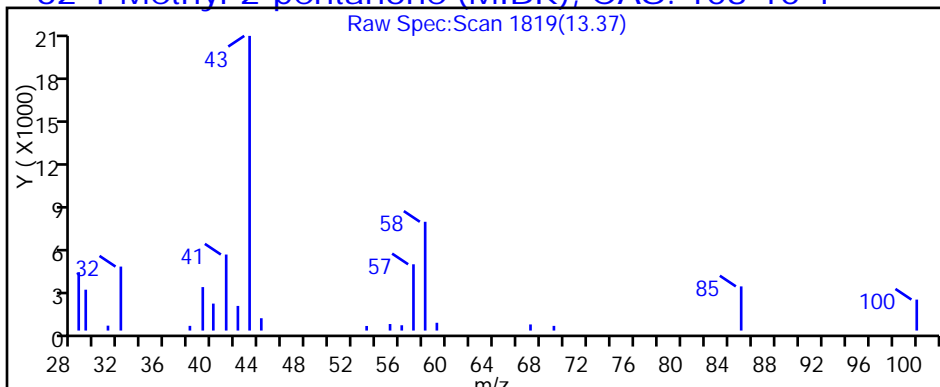
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

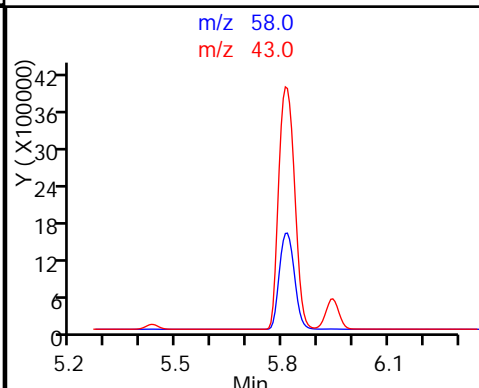
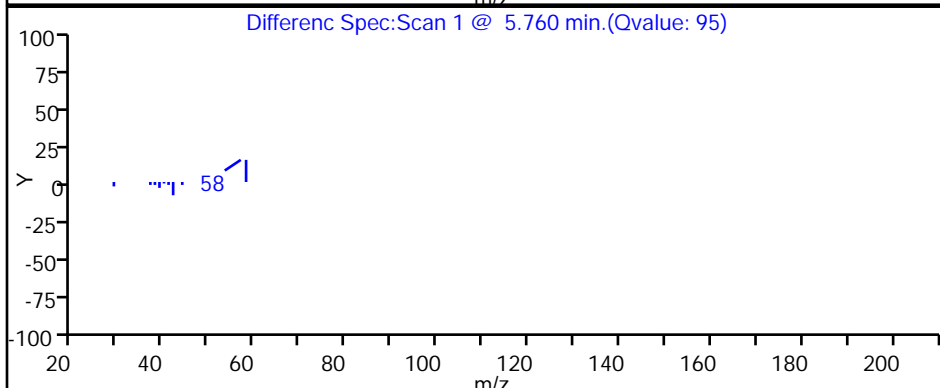
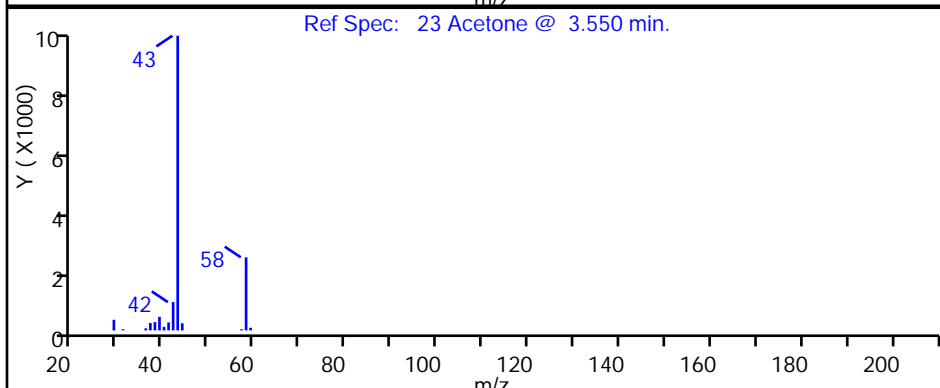
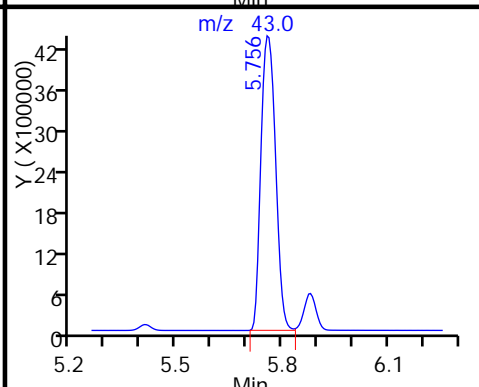
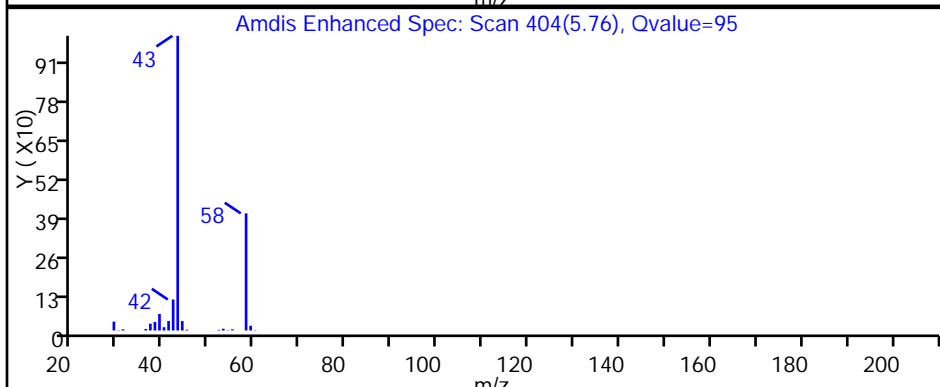
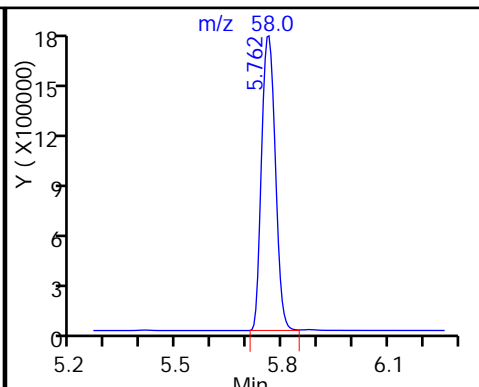
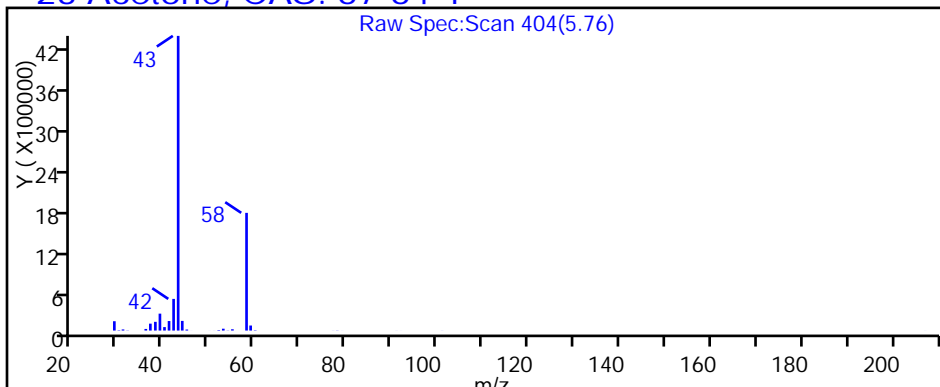
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

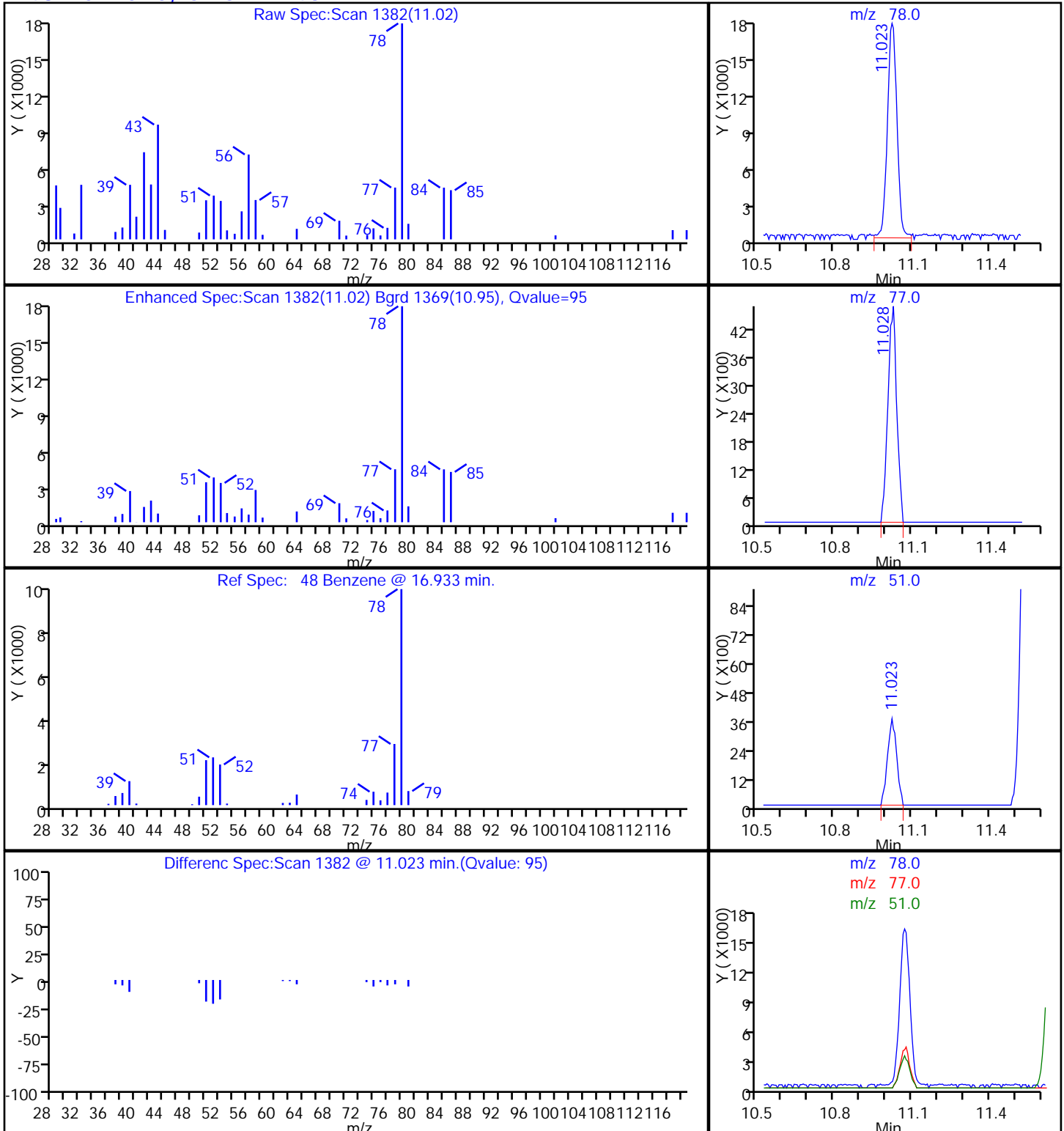
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

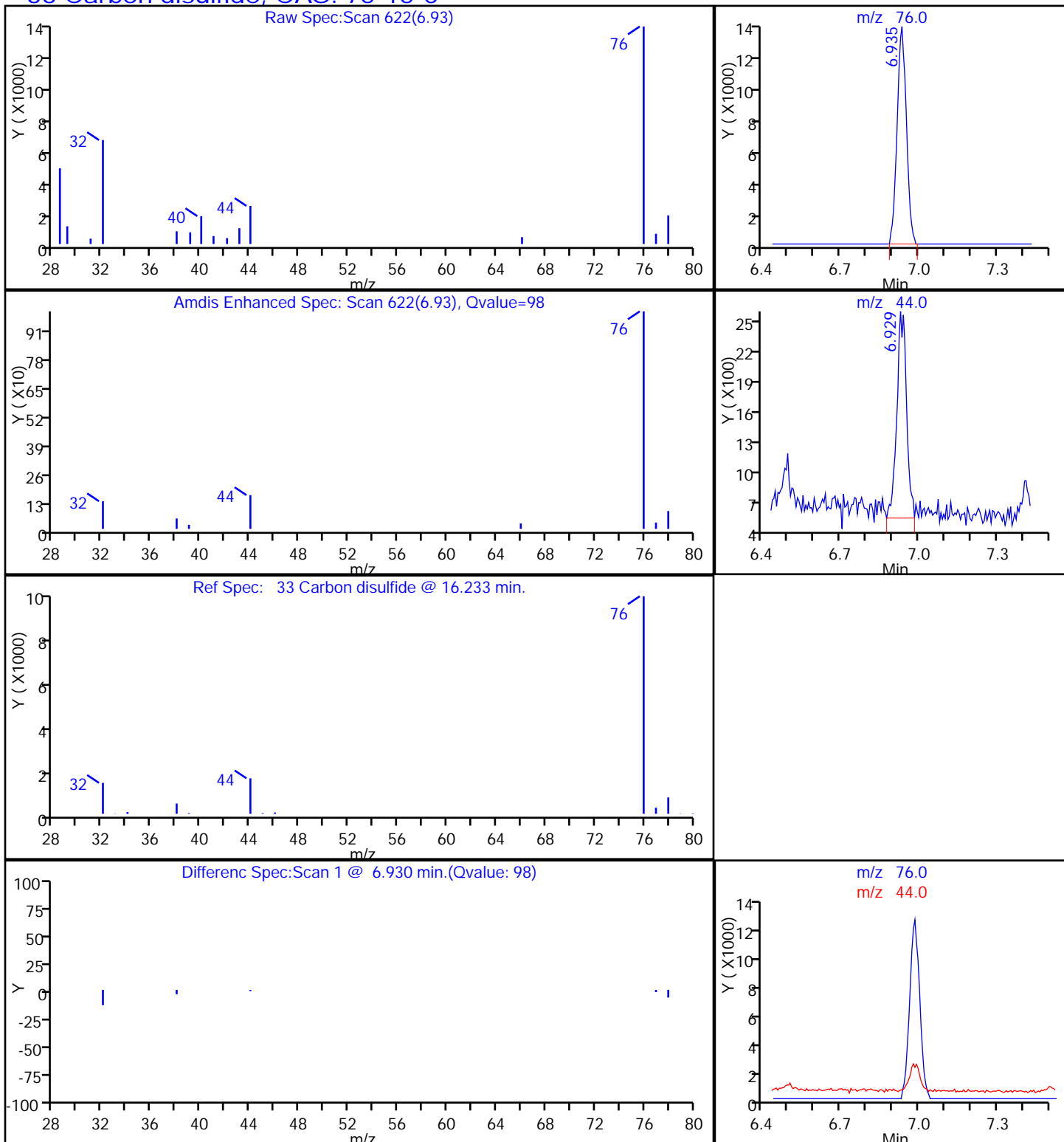
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

33 Carbon disulfide, CAS: 75-15-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

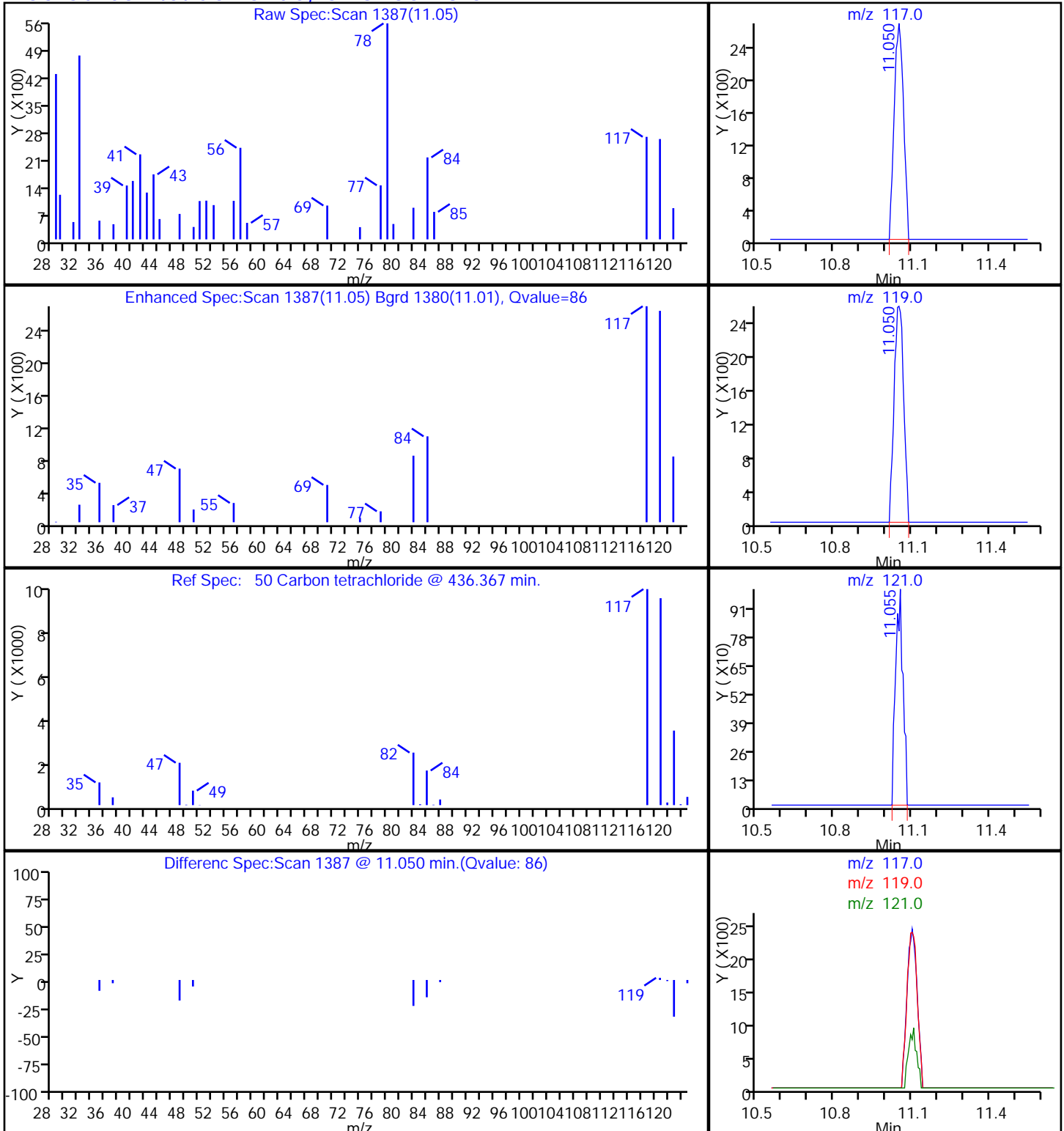
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

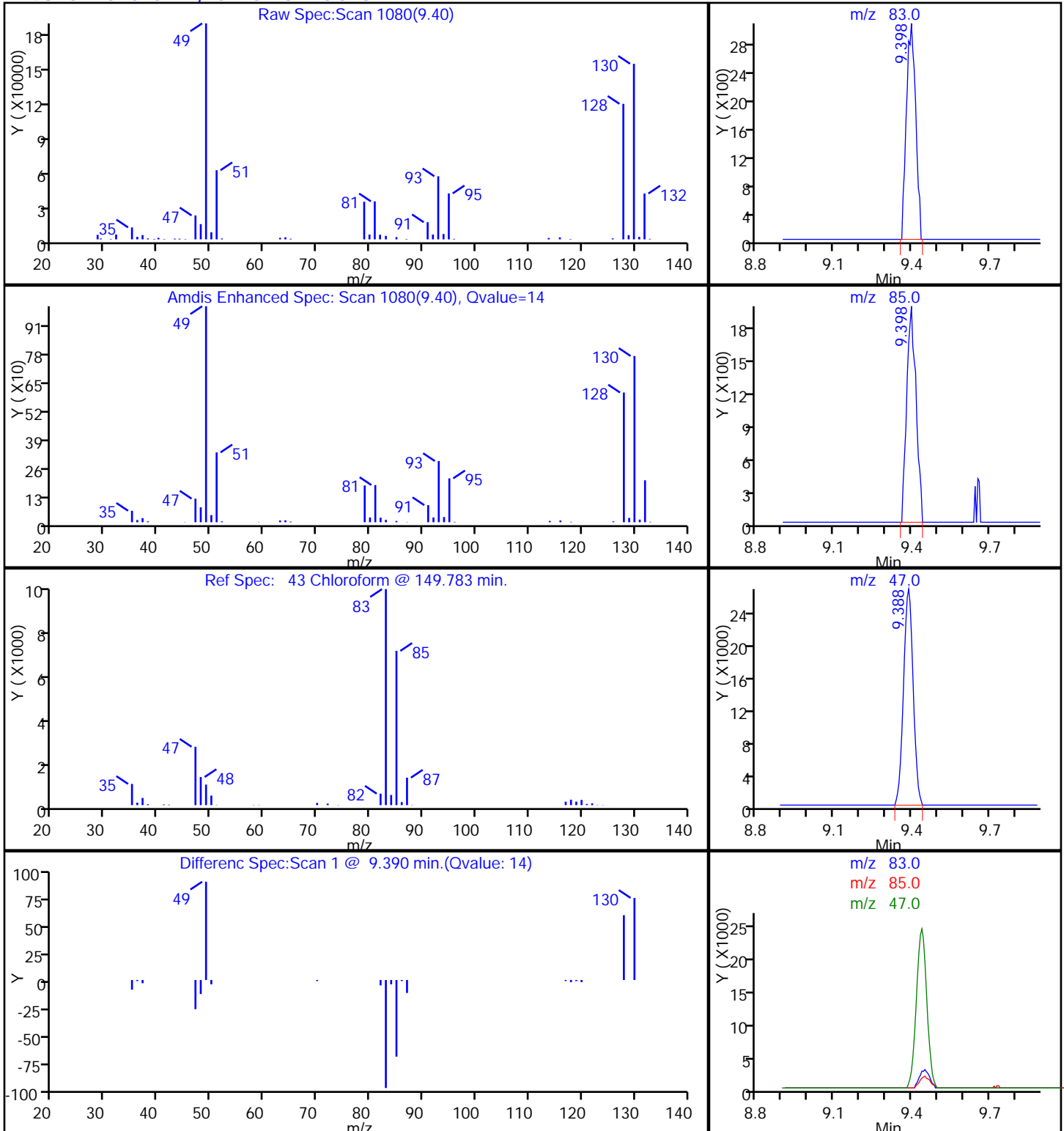
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

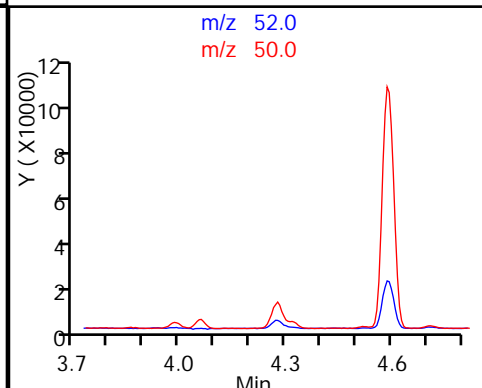
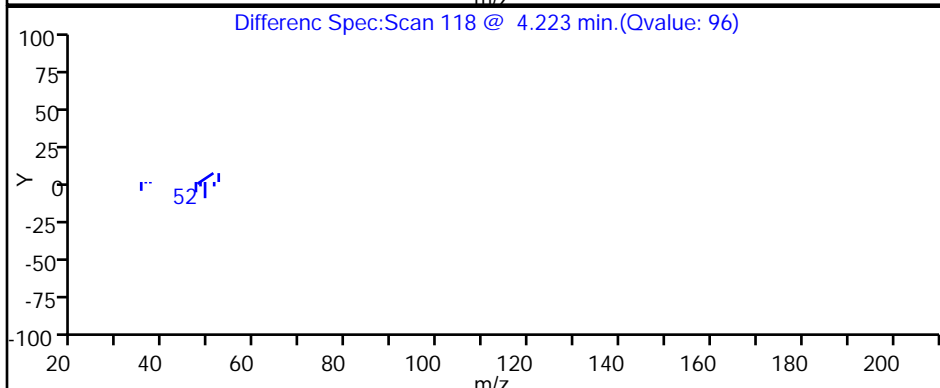
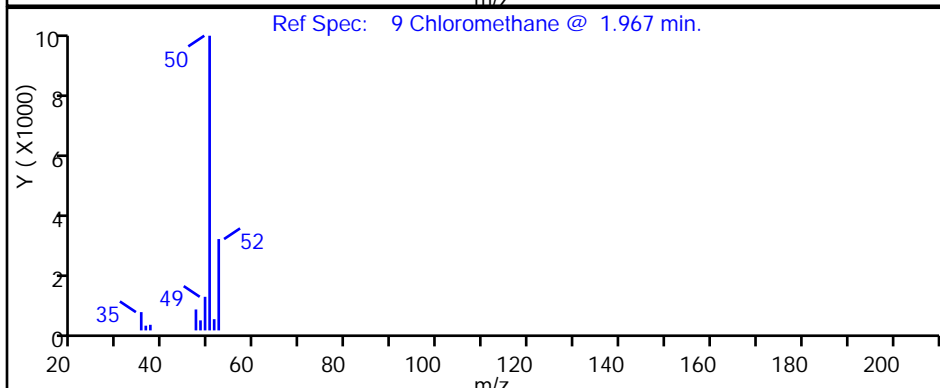
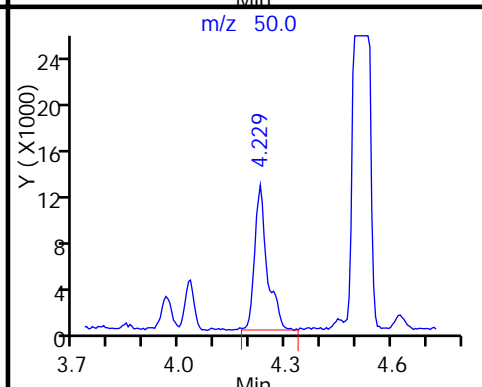
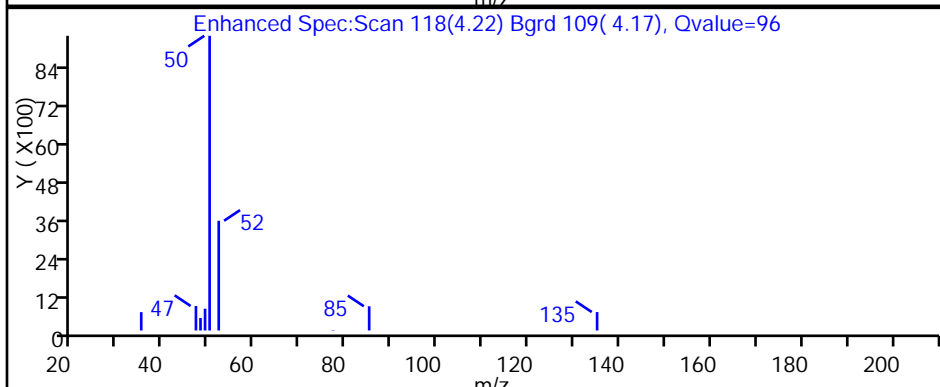
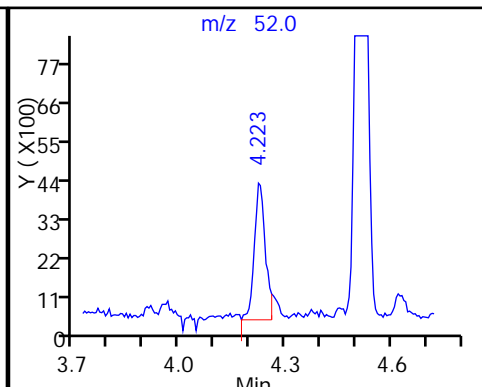
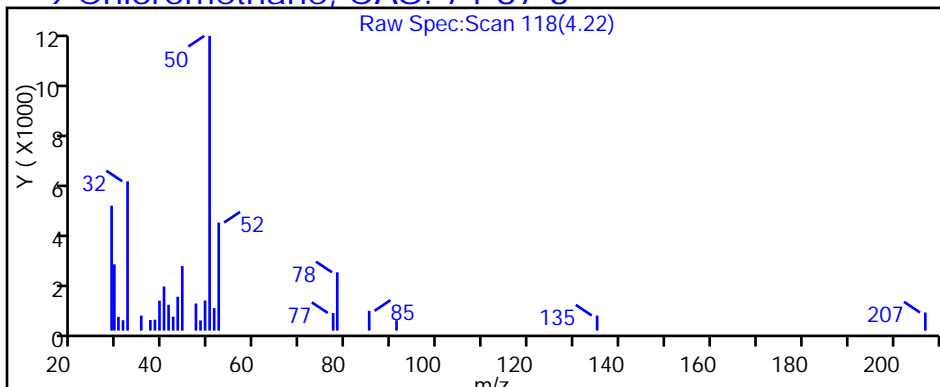
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

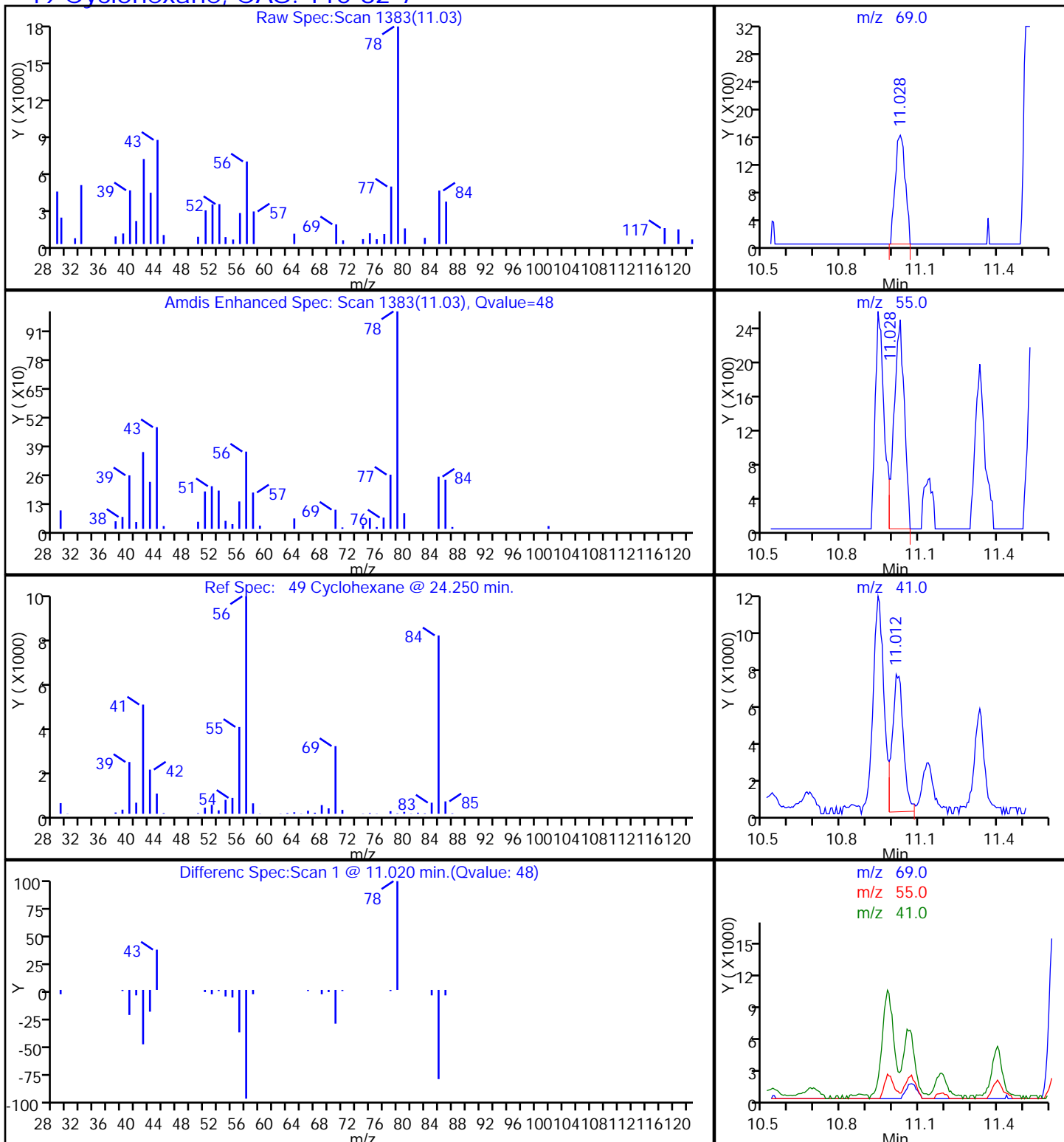
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

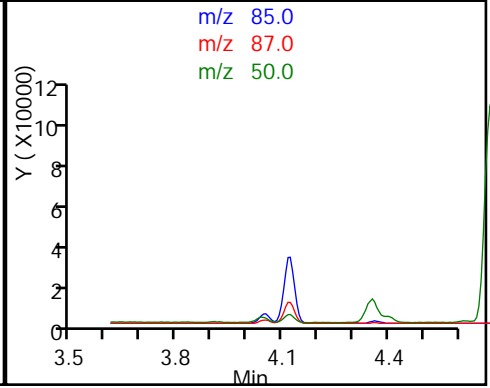
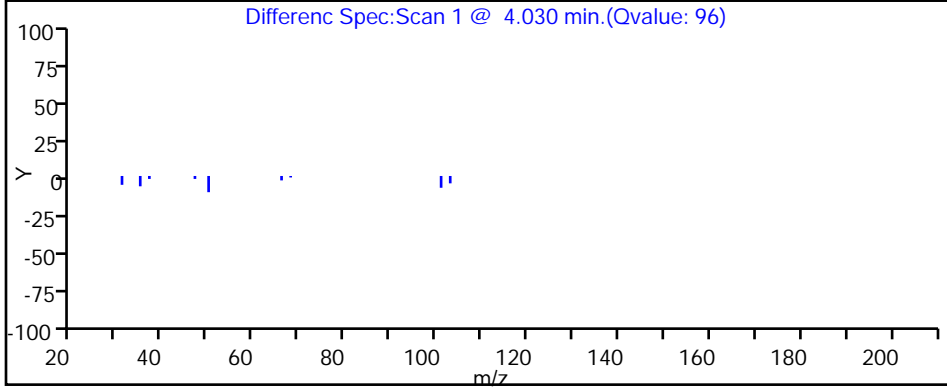
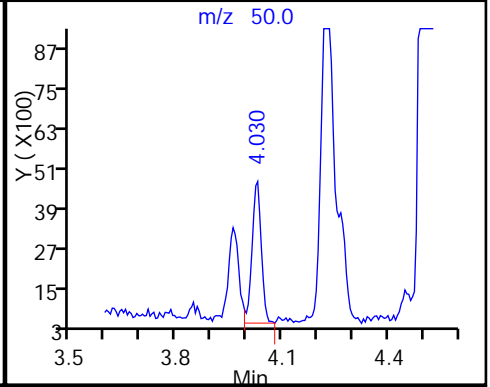
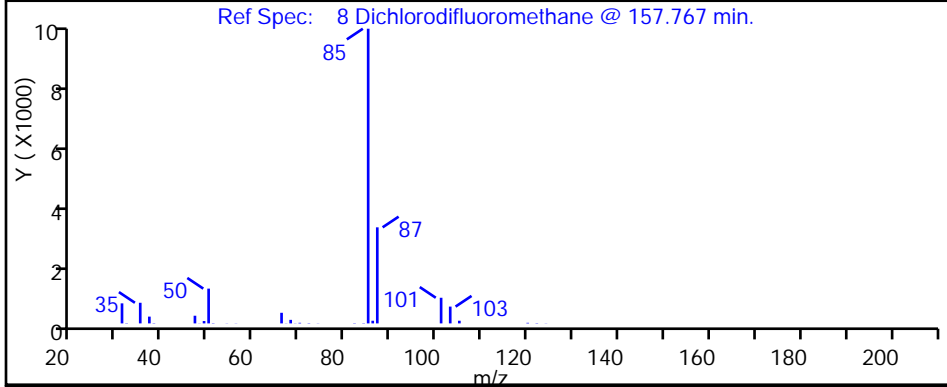
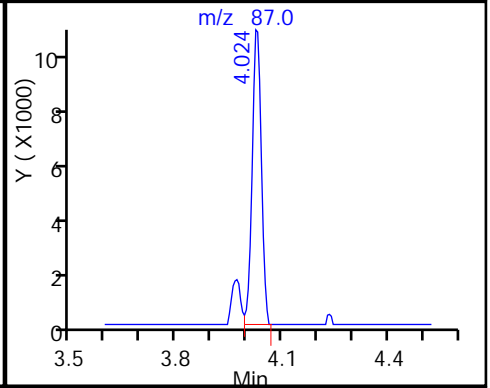
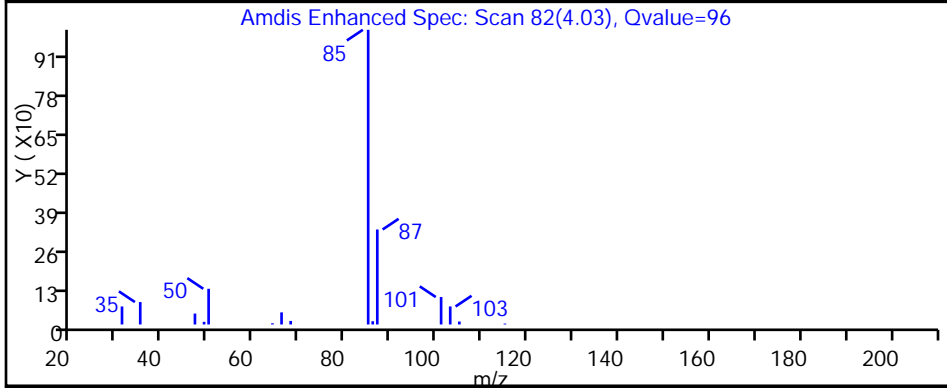
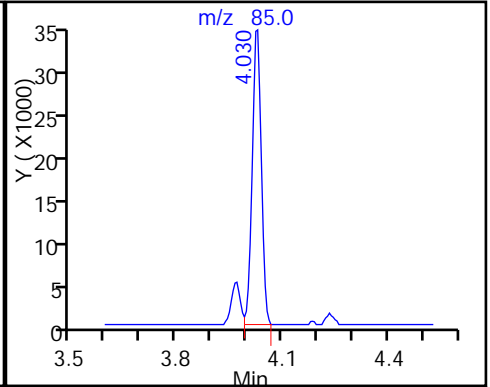
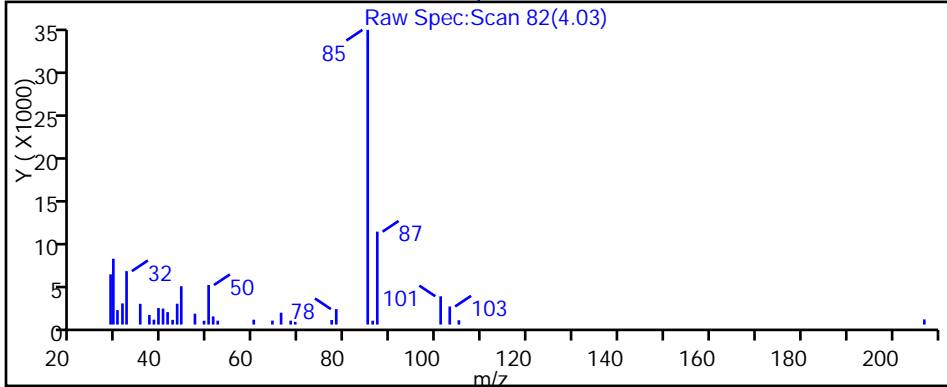
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

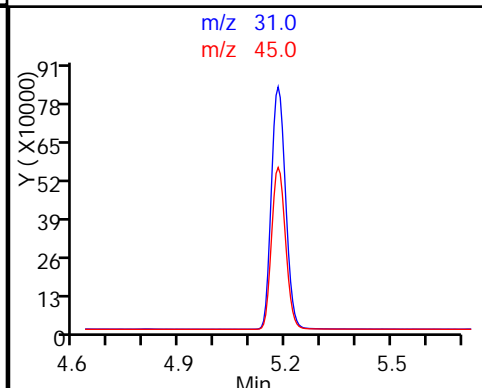
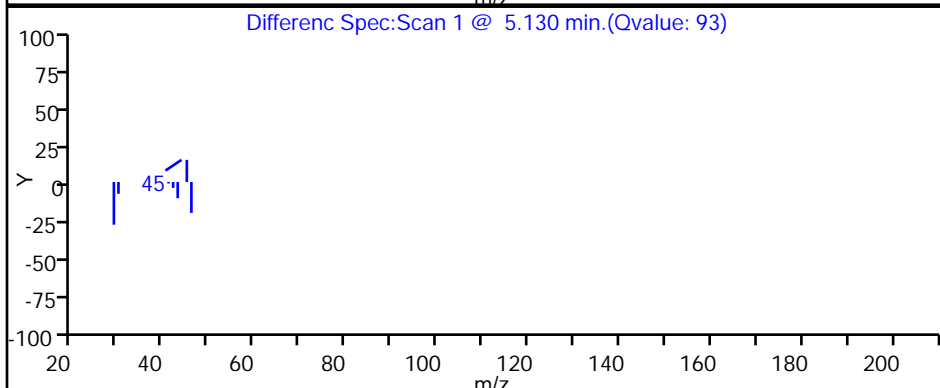
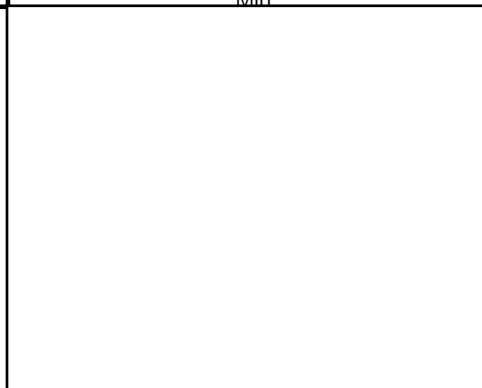
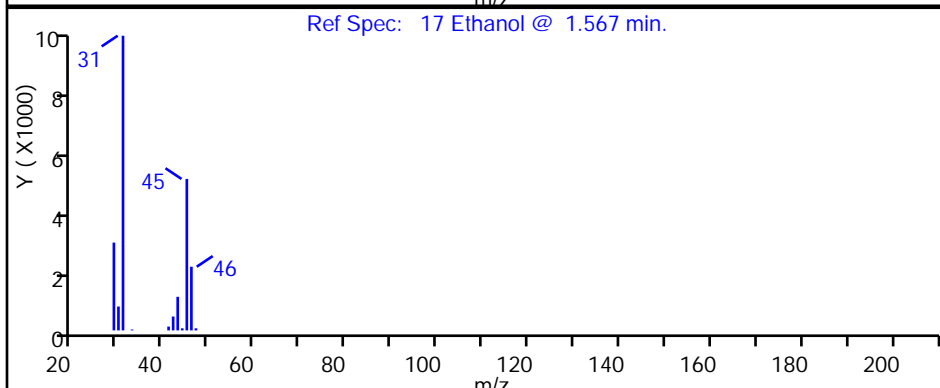
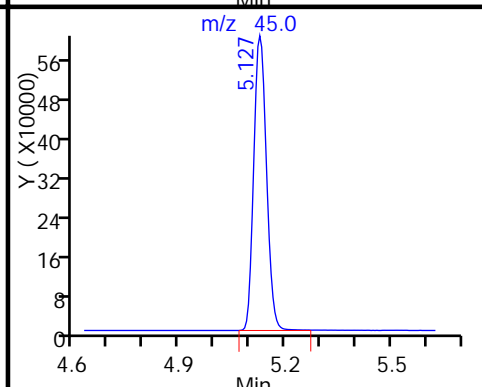
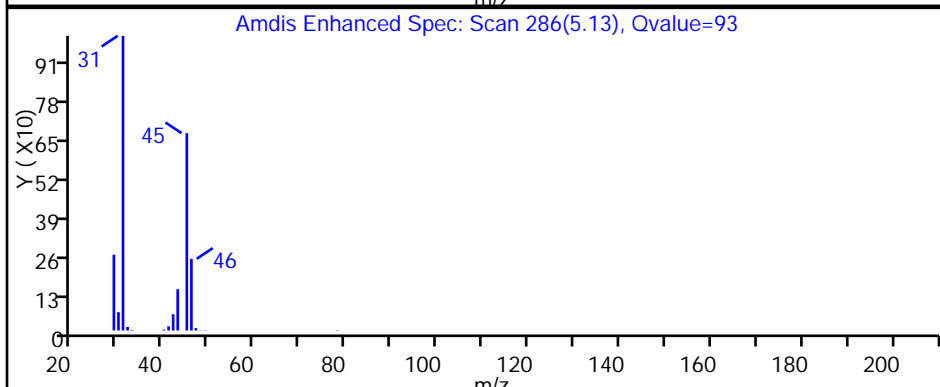
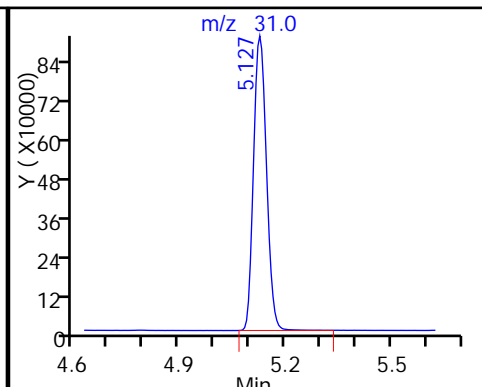
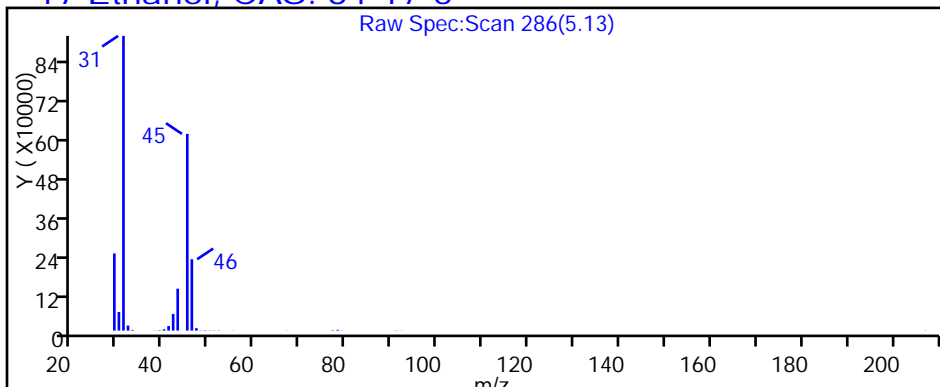
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

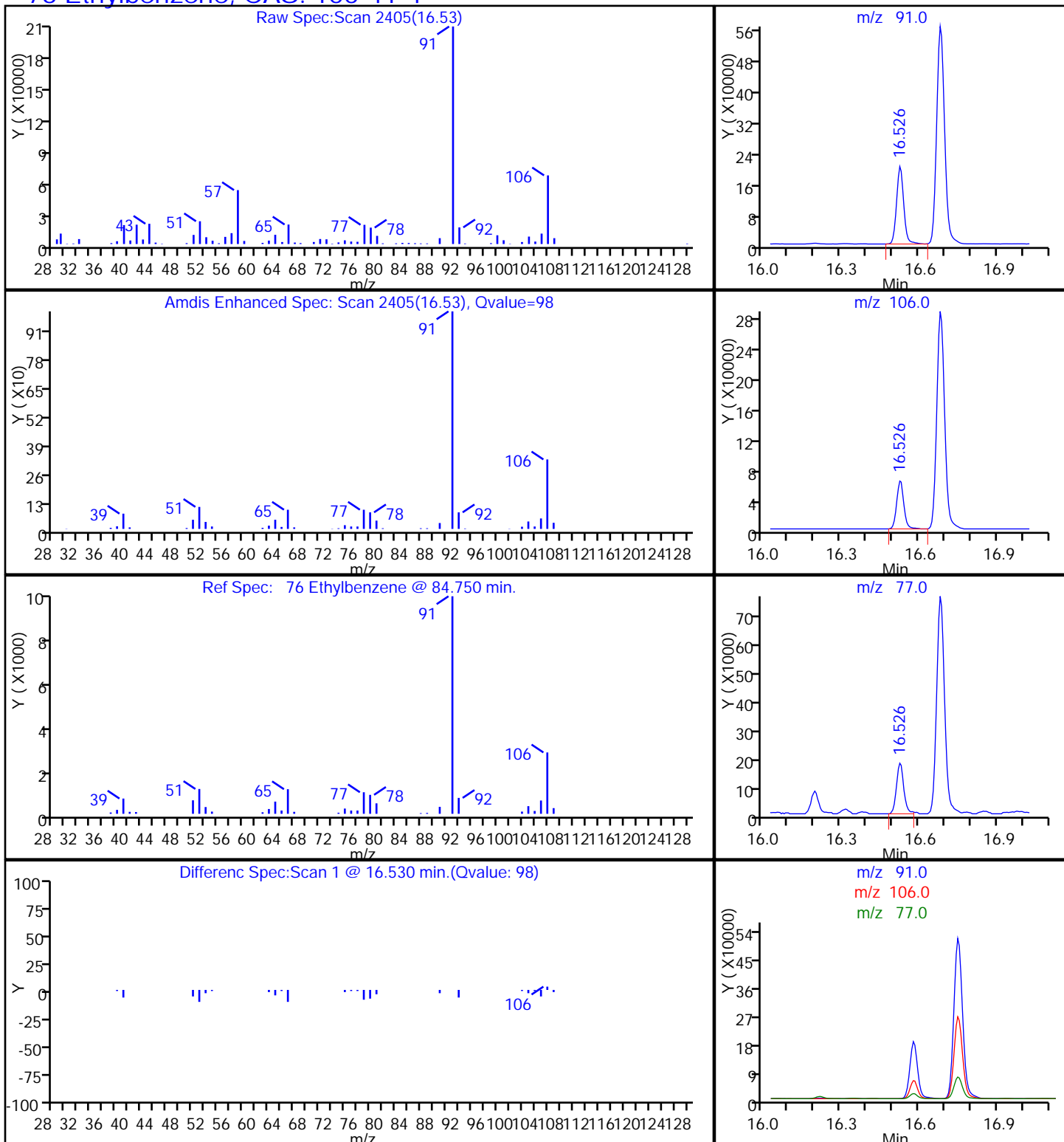
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

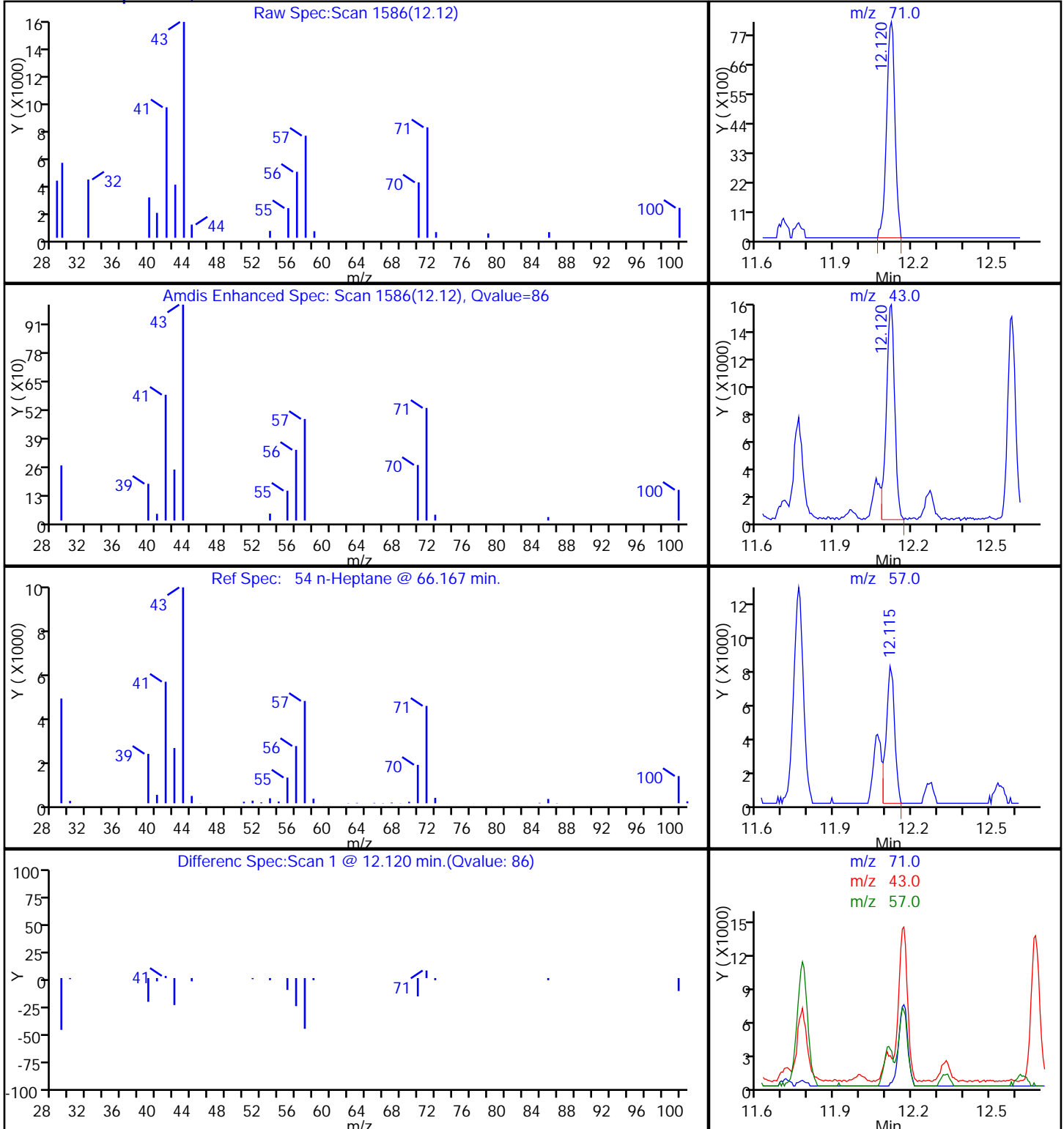
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

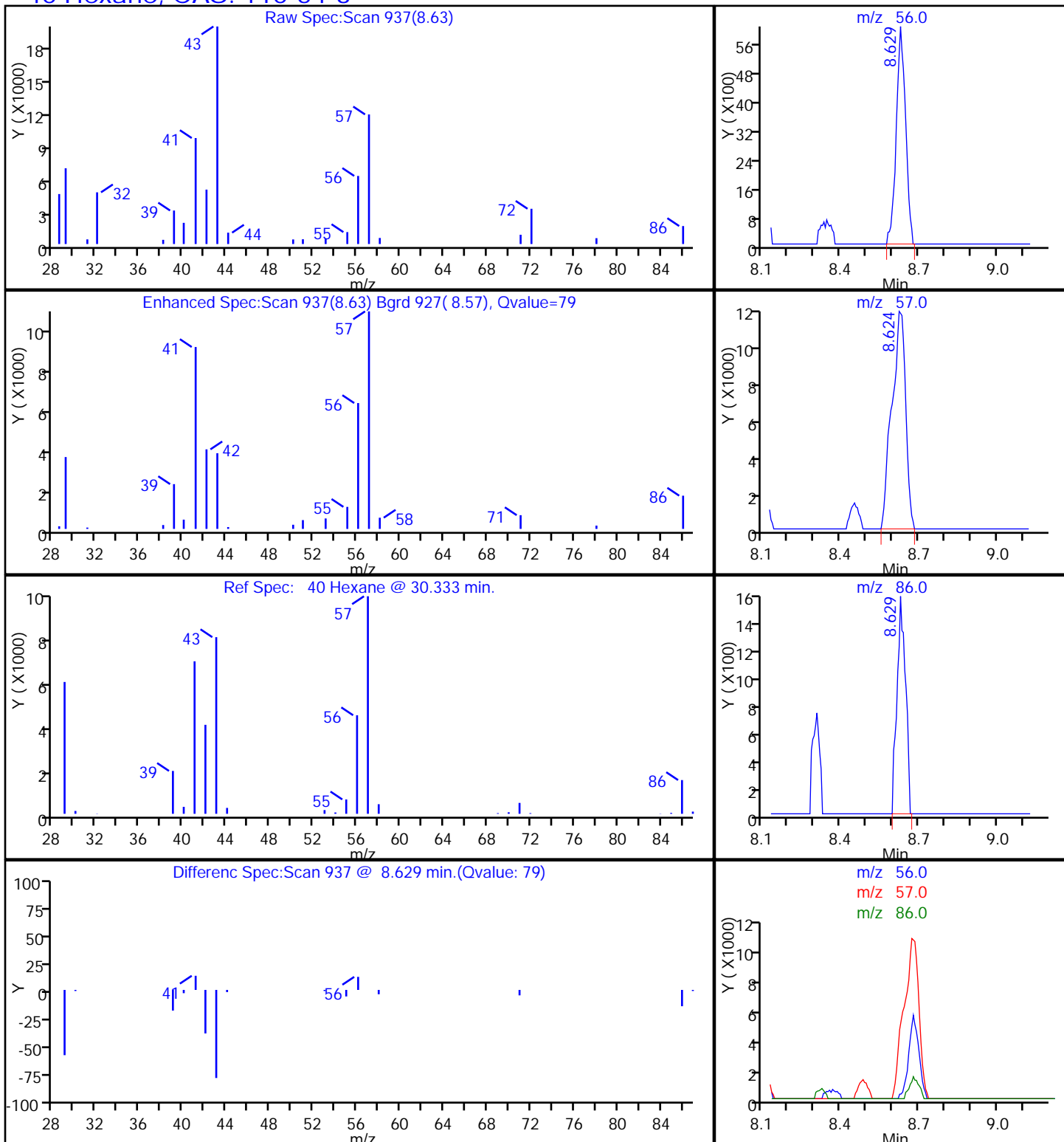
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

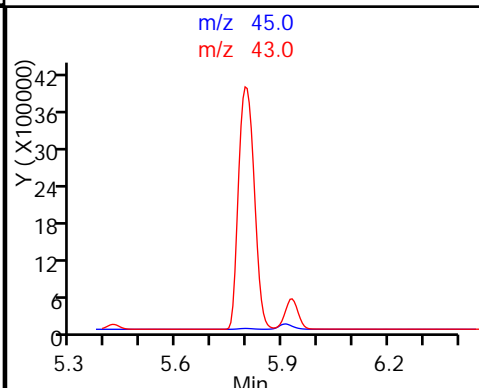
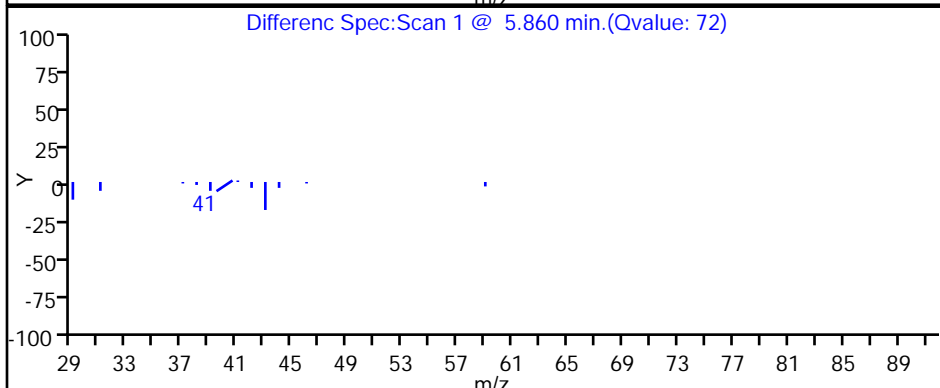
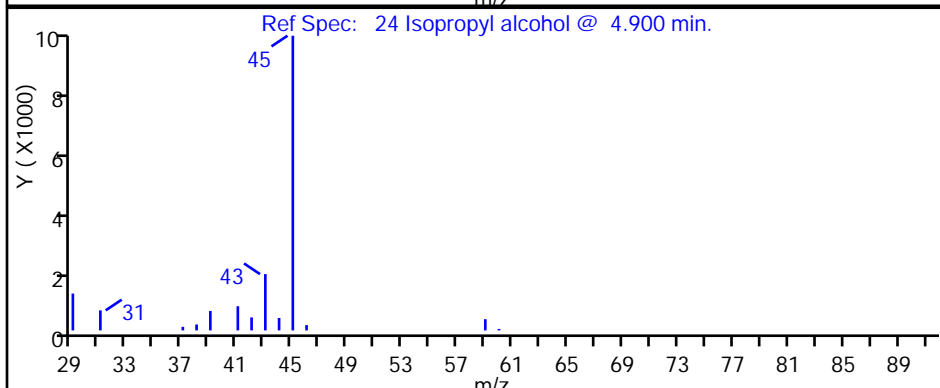
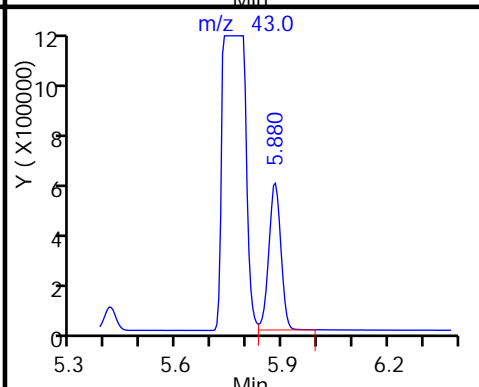
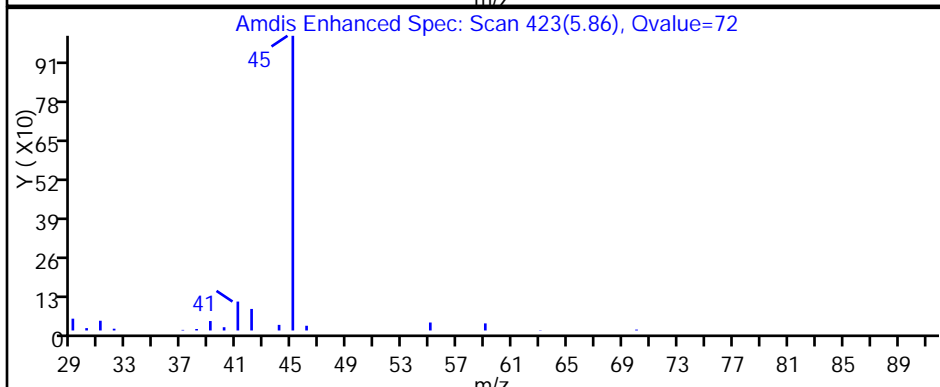
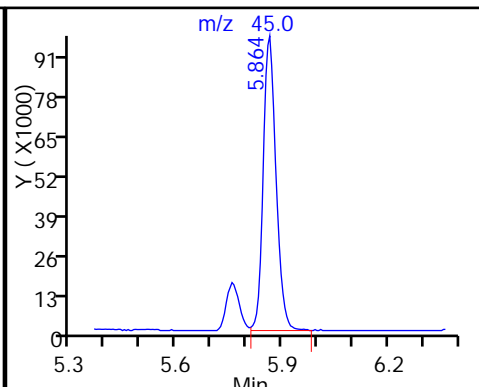
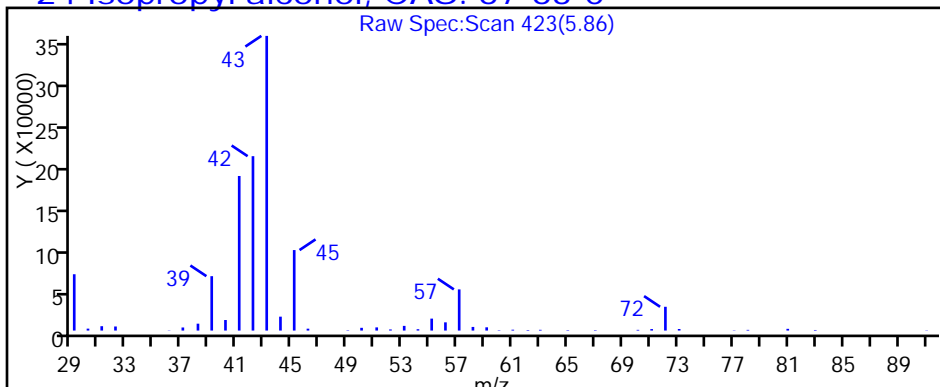
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

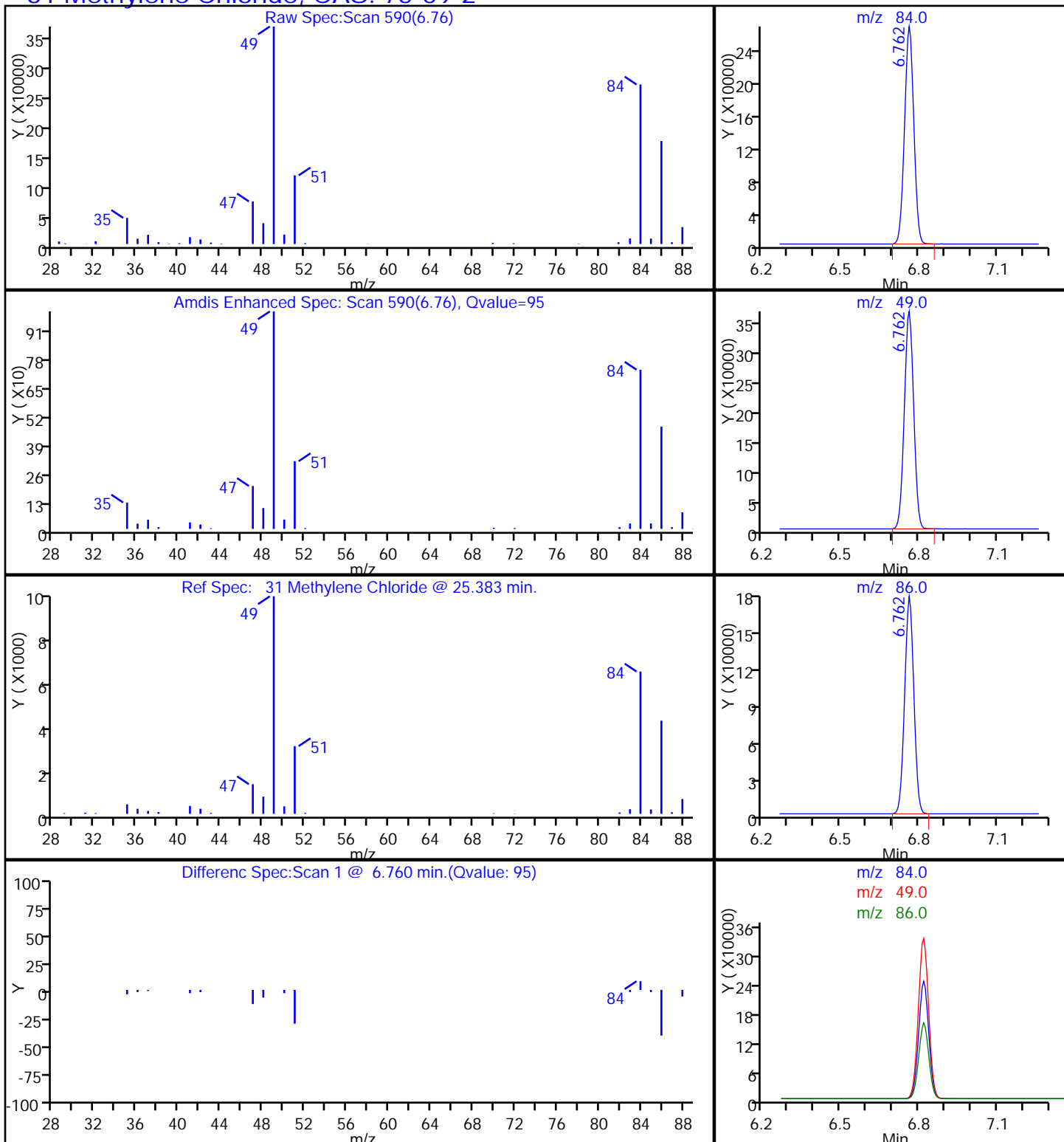
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

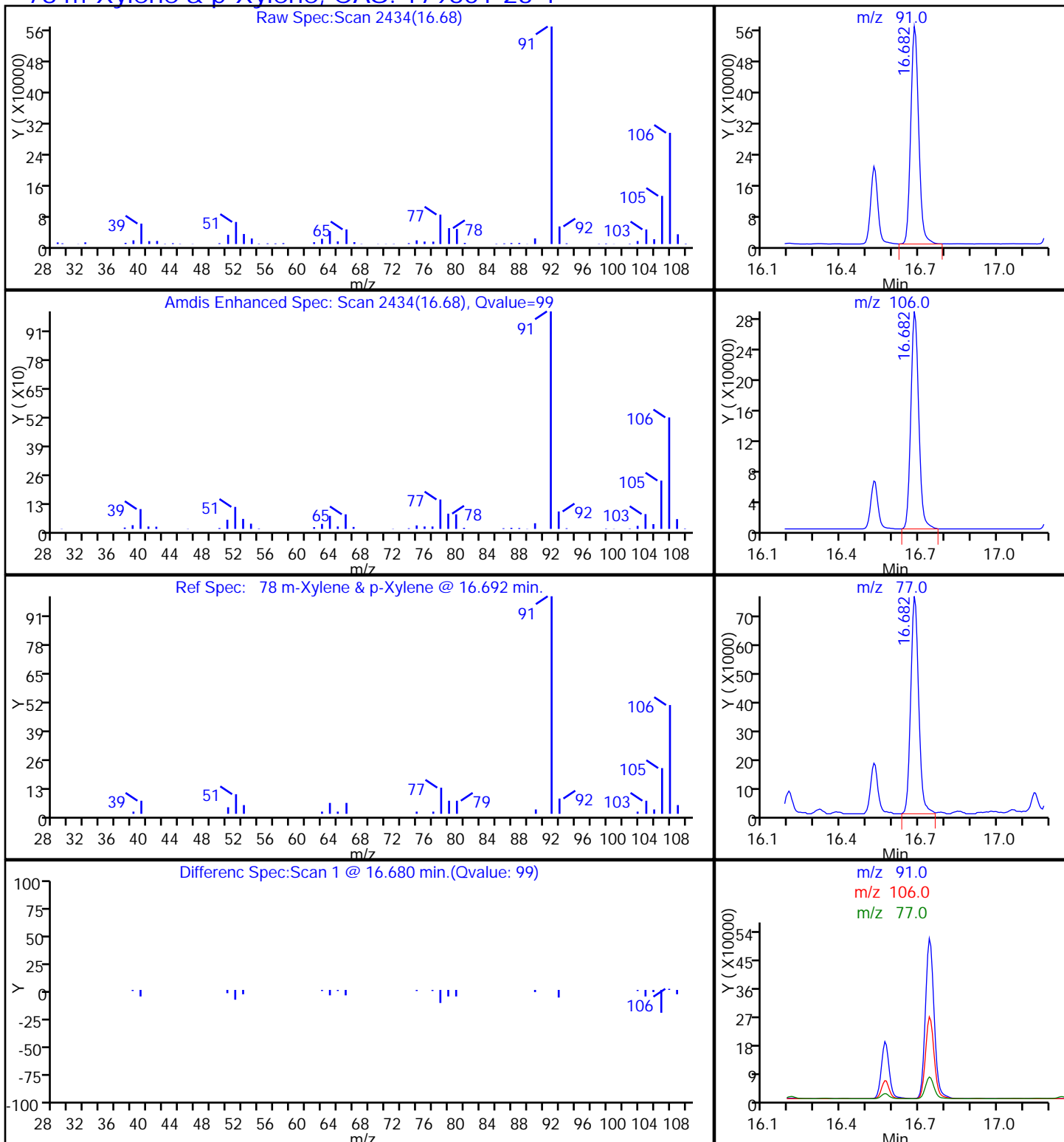
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

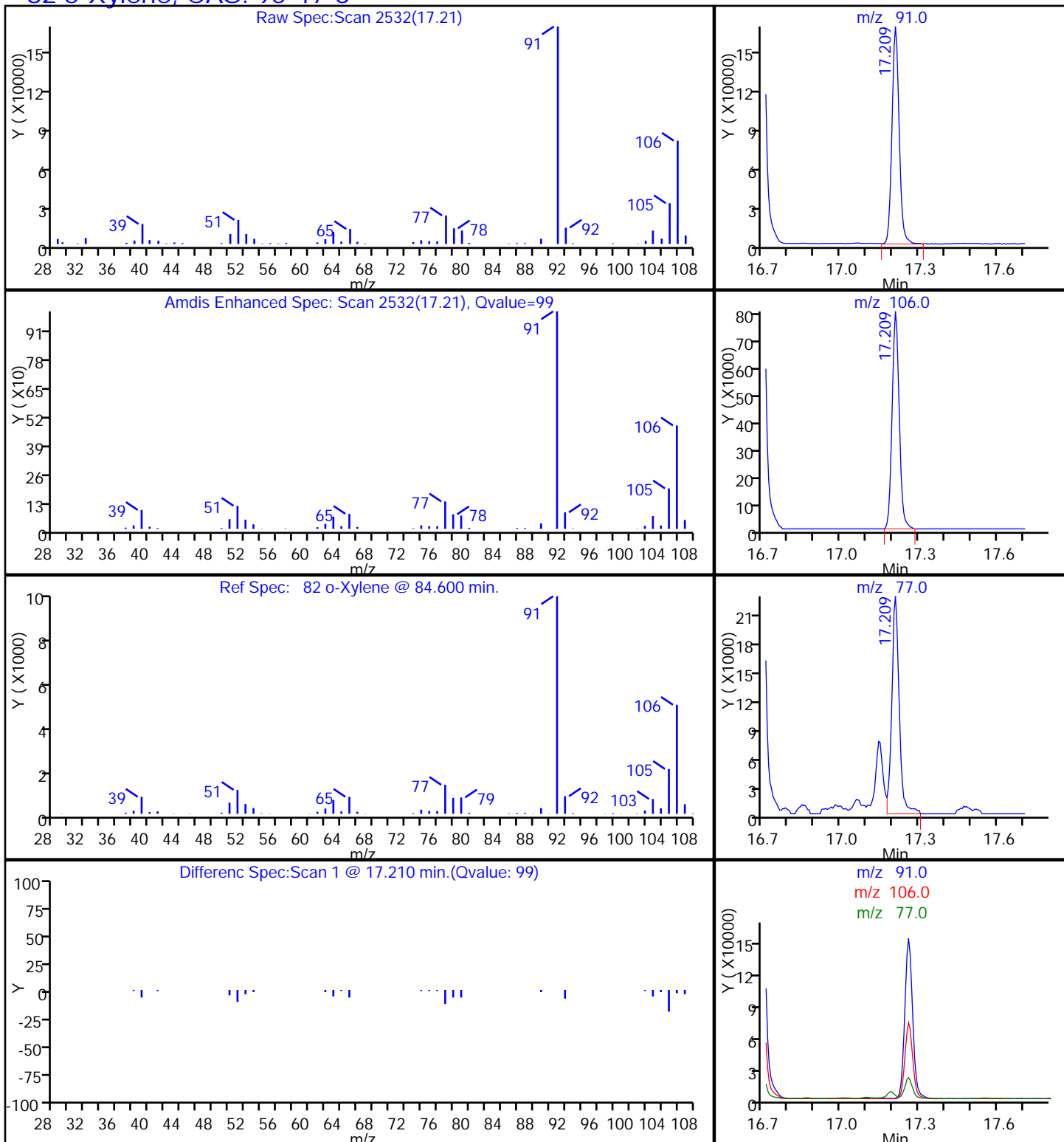
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

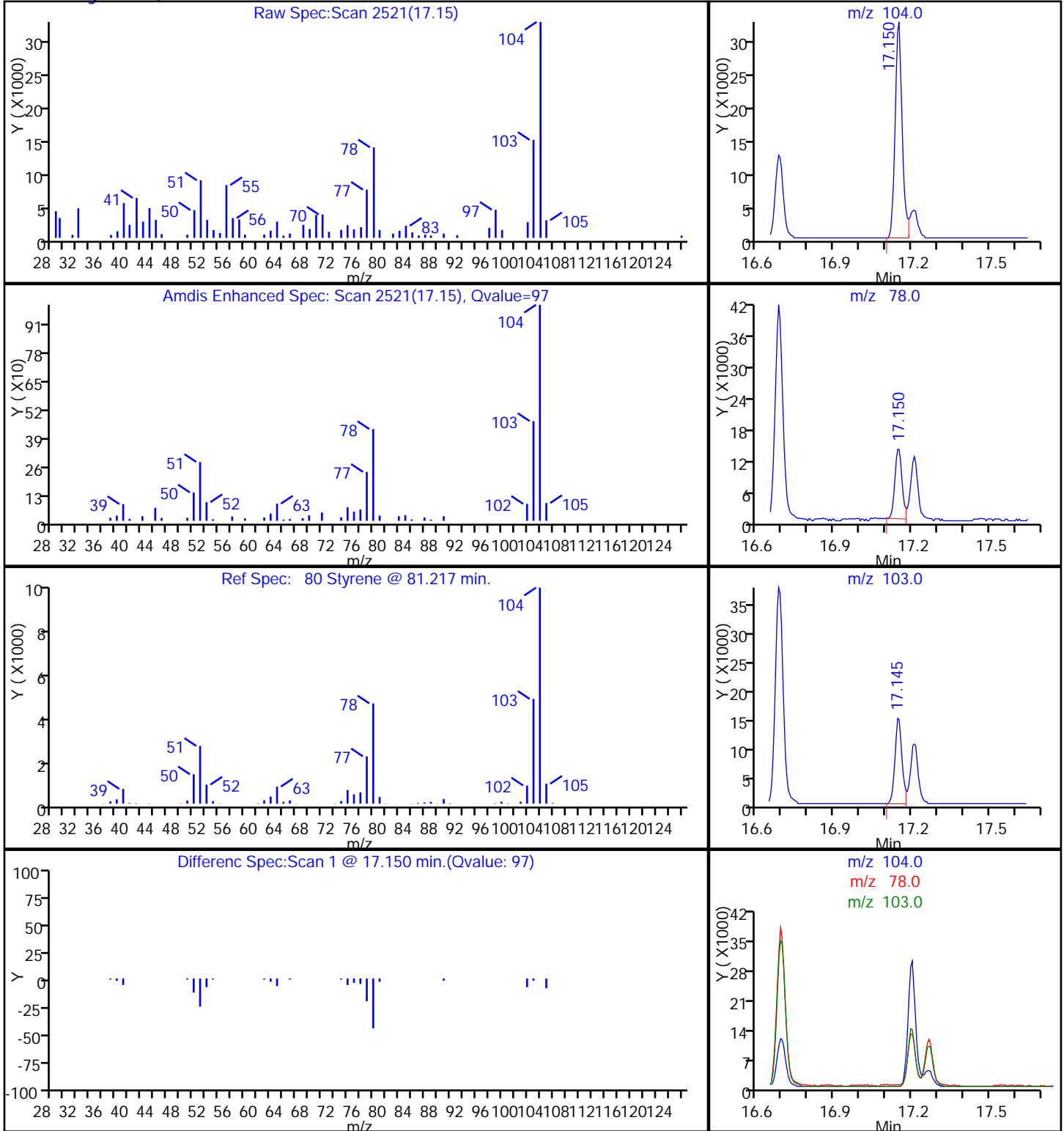
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

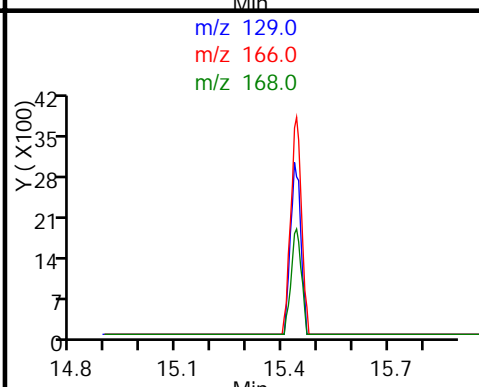
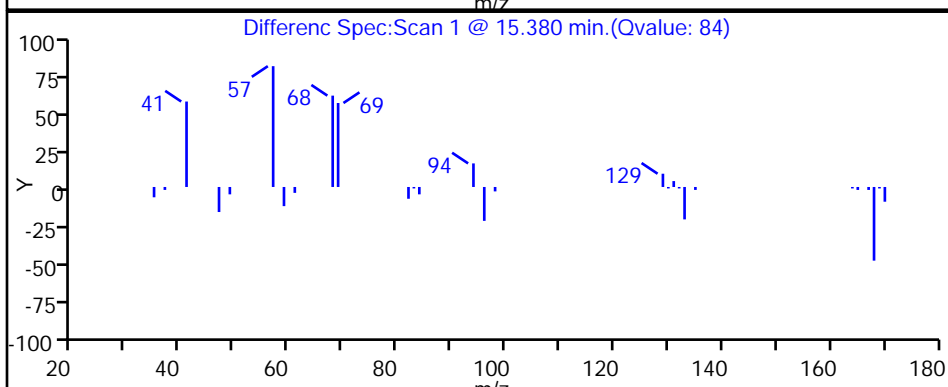
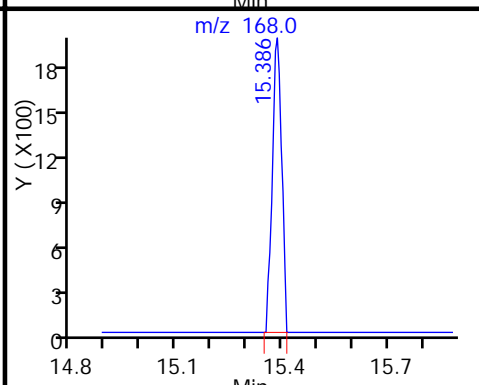
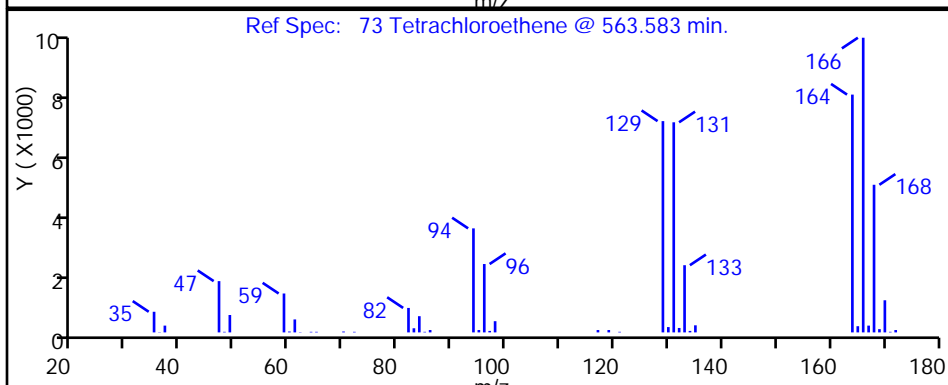
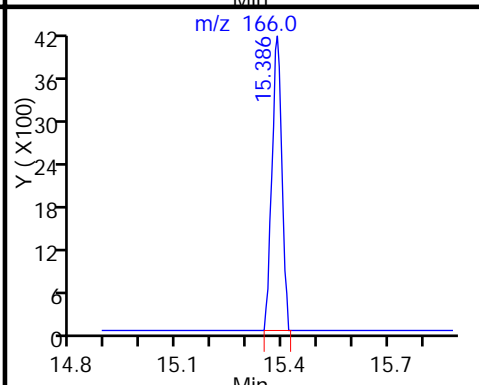
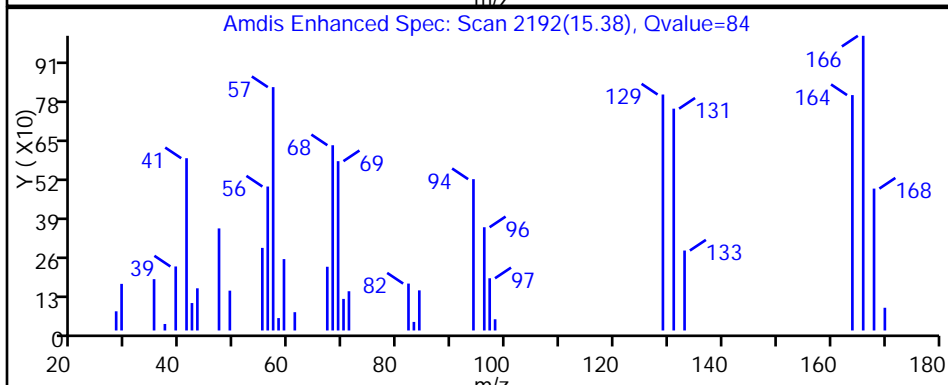
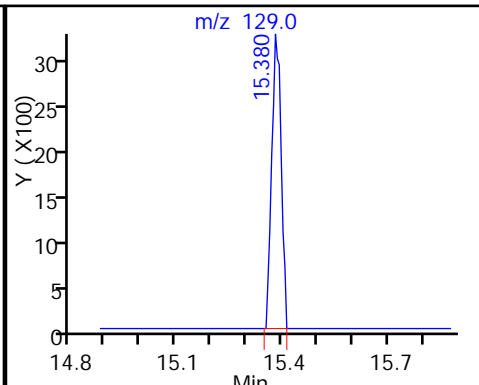
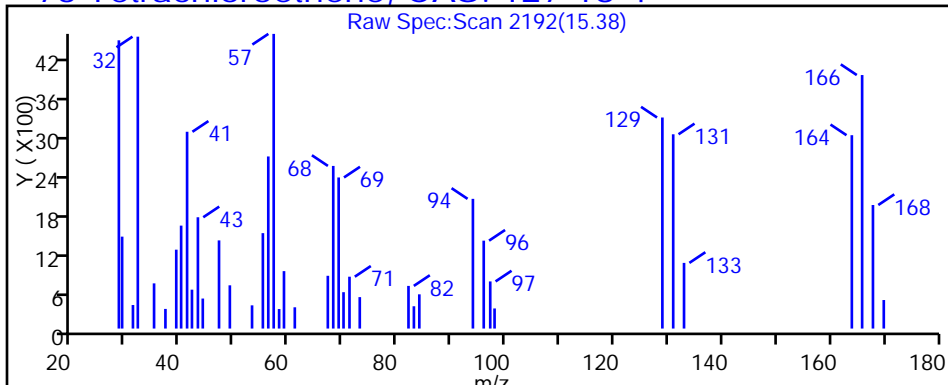
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16 Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

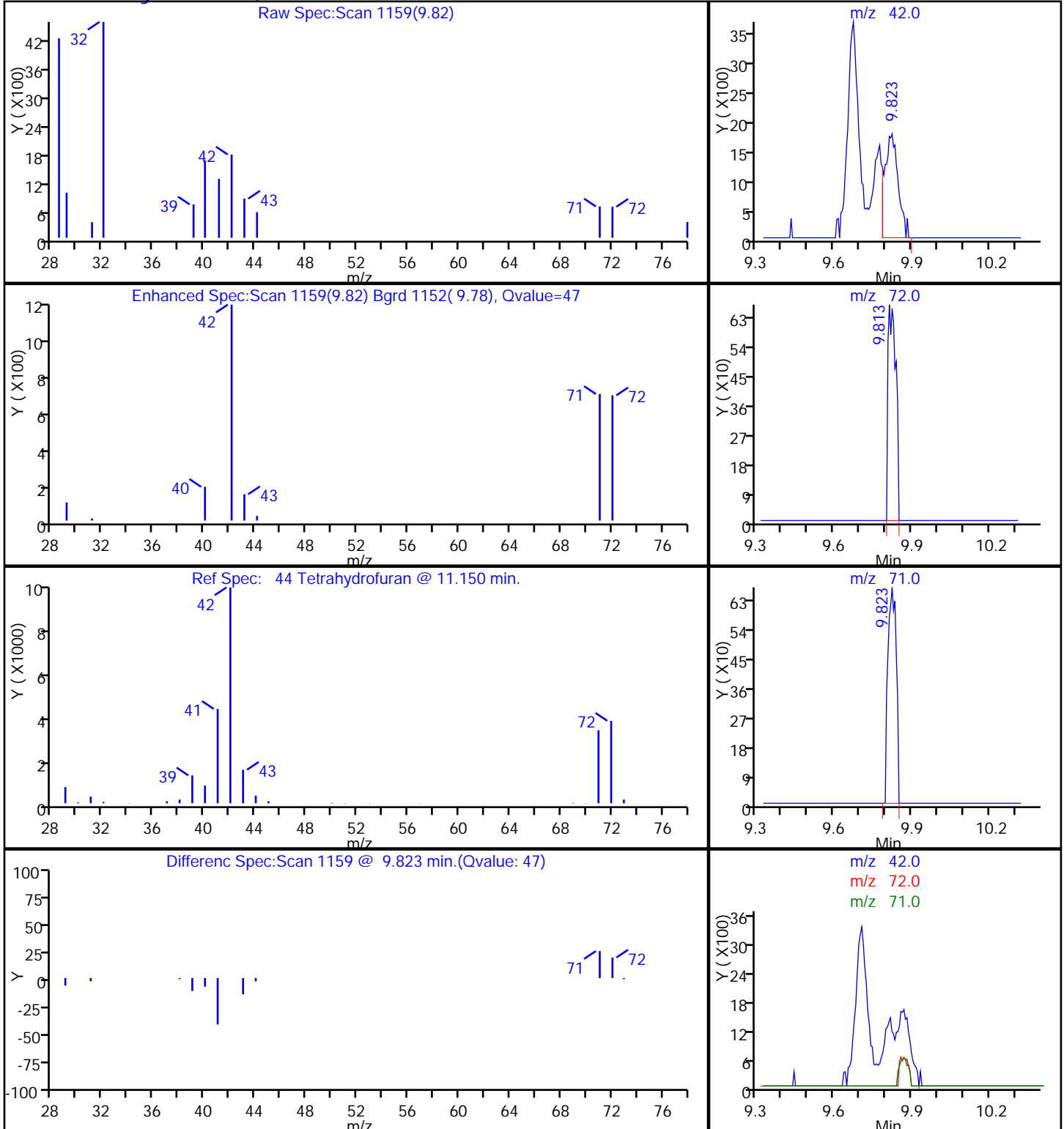
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Tetrahydrofuran, CAS: 109-99-9



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

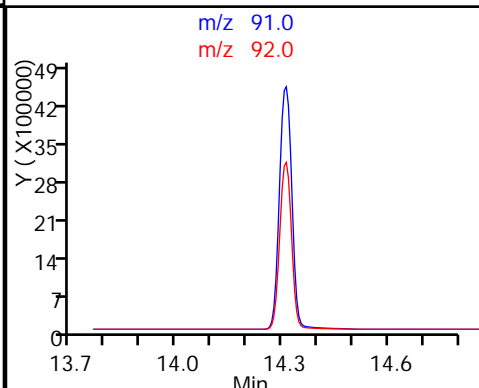
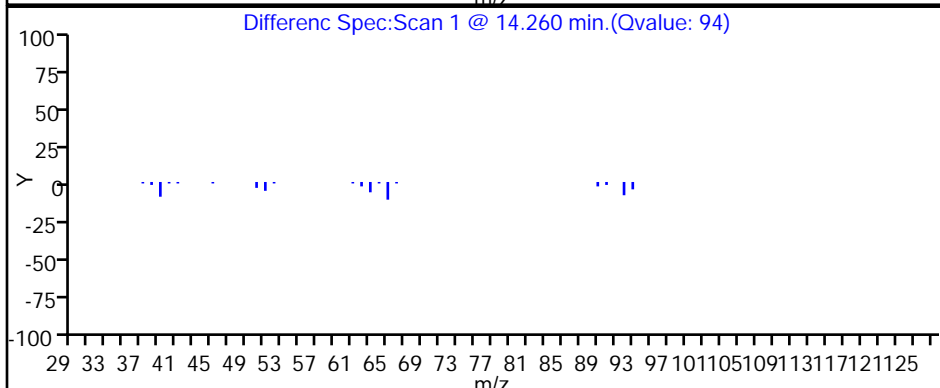
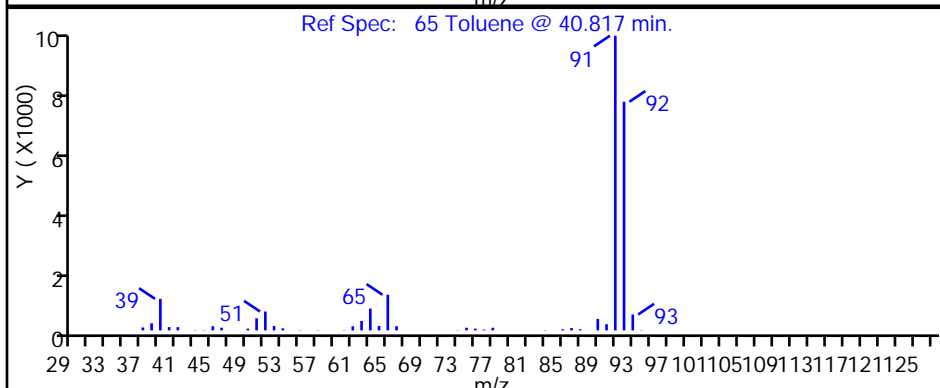
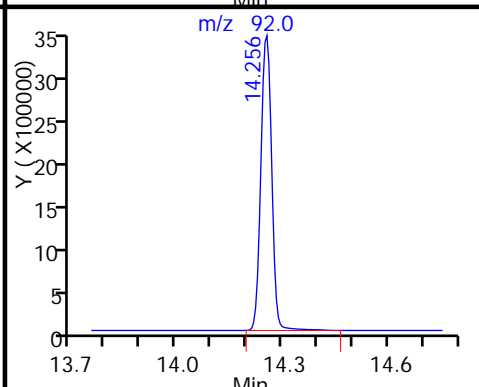
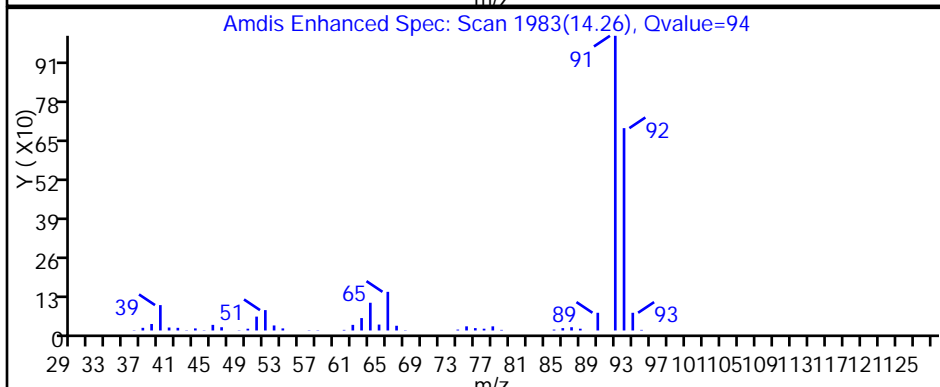
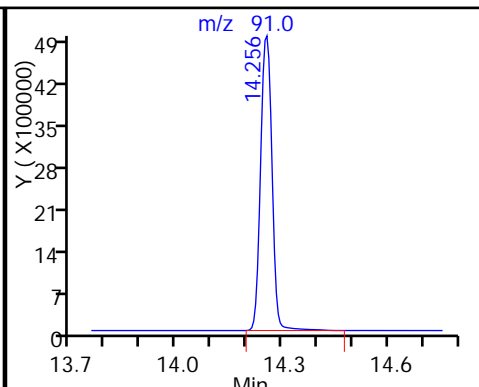
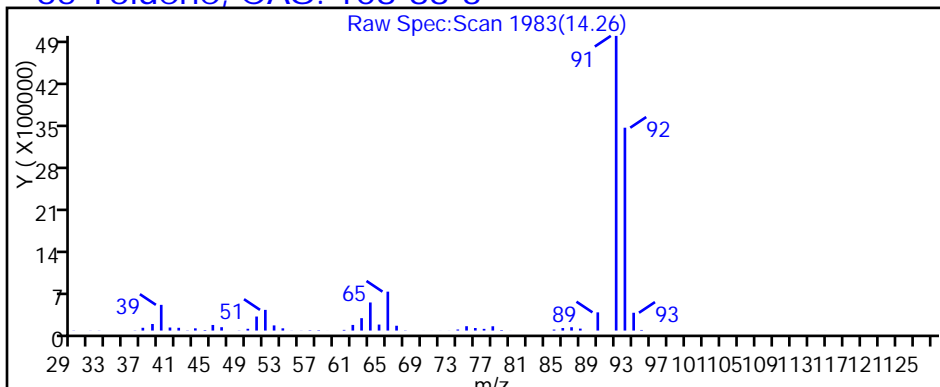
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

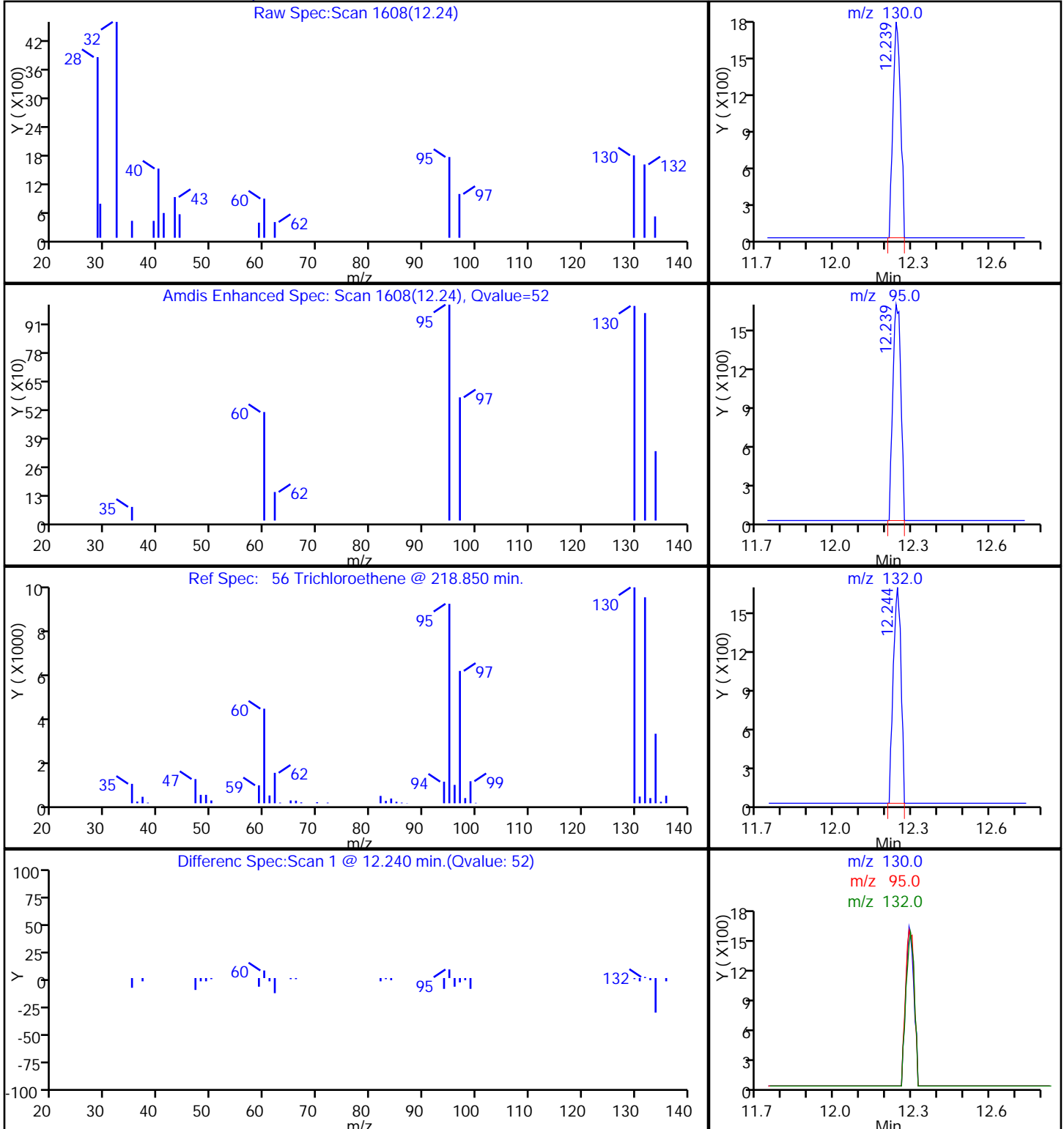
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

56 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D

Injection Date: 19-Mar-2014 09:39:30

Instrument ID: MJ

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 403648

ALS Bottle#: 16

Worklist Smp#: 28

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

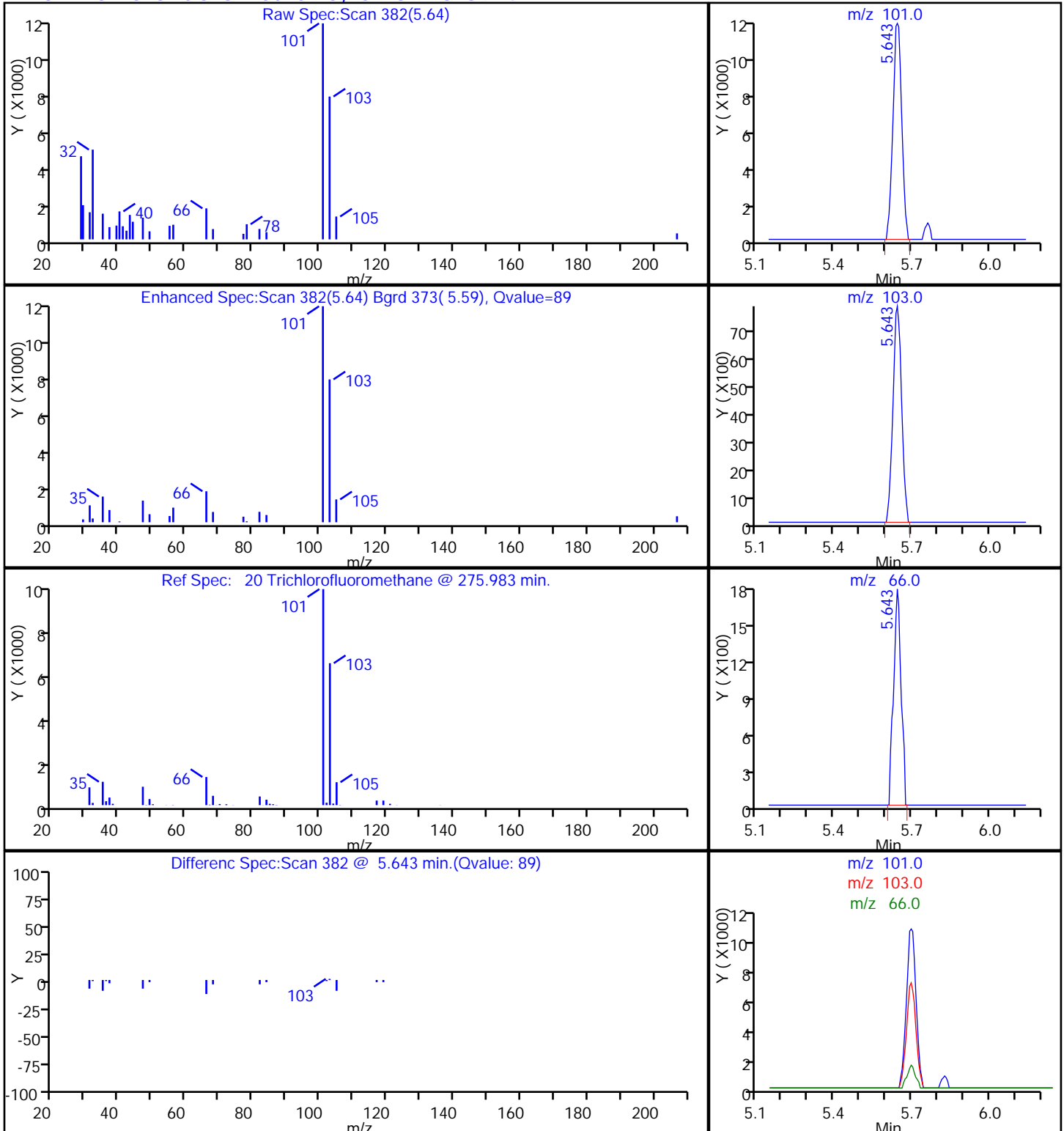
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



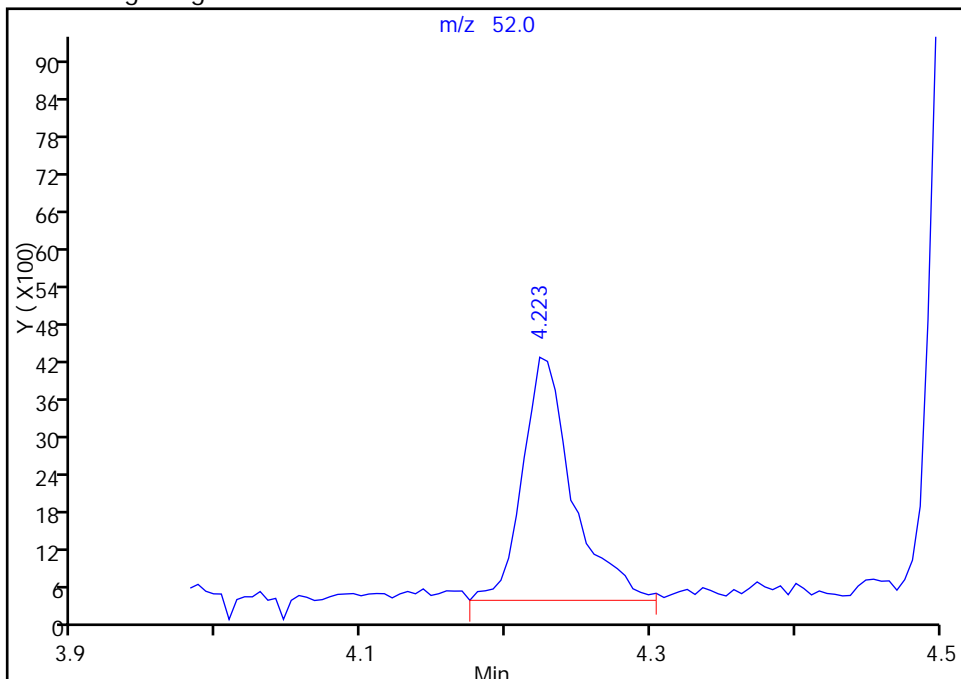
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JC18P216.D
Injection Date: 19-Mar-2014 09:39:30 Instrument ID: MJ
Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17
Client ID: PCV-IA2-B5
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 28
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

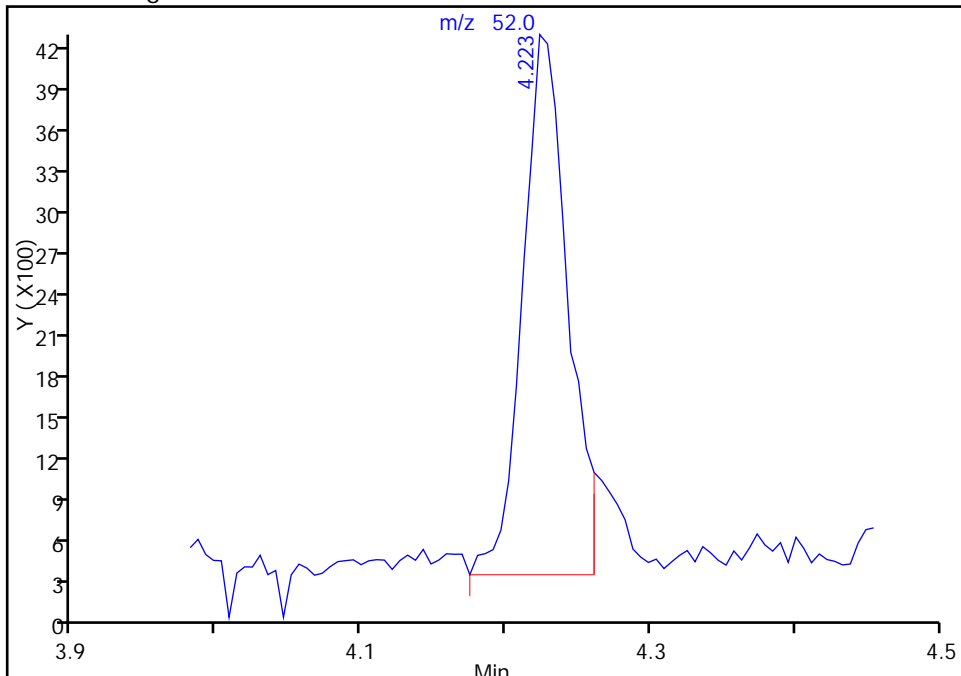
RT: 4.22
Response: 9433
Amount: 0.227217

Processing Integration Results



RT: 4.22
Response: 8562
Amount: 0.206237

Manual Integration Results



Reviewer: barlozhetskayaa, 19-Mar-2014 12:44:54
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 DL Lab Sample ID: 140-1063-17 DL
 Matrix: Air Lab File ID: EC24P104.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 11(mL) Date Analyzed: 03/24/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	220		91	25
108-88-3	Toluene	92.14	65		3.6	2.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IA2-B5 DL Lab Sample ID: 140-1063-17 DL
 Matrix: Air Lab File ID: EC24P104.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:56
 Sample wt/vol: 11(mL) Date Analyzed: 03/24/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	510		220	60
108-88-3	Toluene	92.14	250		14	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D
 Lims ID: 140-1063-A-17 Lab Sample ID: 140-1063-17
 Client ID: PCV-IA2-B5
 Sample Type: Client
 Inject. Date: 24-Mar-2014 13:17:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-17
 Misc. Info.: E032414,TO155,,140-0000541-007
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 25-Mar-2014 07:23:41

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	69	271813	4.00	
* 2 1,4-Difluorobenzene	114	10.561	10.572	-0.011	94	1322864	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1080071	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	781021	3.30	
7 Propene	41	3.319	3.314	0.005	49	82550	1.21	
9 Chloromethane	52	3.557	3.530	0.027	1	2265	0.0944	
13 Butadiene	54	3.767	3.772	-0.005	28	2684	0.0419	
17 Ethanol	31	4.295	4.312	-0.017	97	95965	3.53	
19 2-Methylbutane	43	4.527	4.533	-0.006	81	7608	0.0799	
23 Acetone	58	4.862	4.878	-0.016	99	196304	4.77	
24 Isopropyl alcohol	45	4.964	4.969	-0.005	22	10538	0.0994	
31 Methylene Chloride	84	5.778	5.789	-0.011	78	33093	0.4261	
64 trans-1,3-Dichloropropene	75	13.398	13.284	0.114	4	3724	0.0255	
65 Toluene	91	13.392	13.398	-0.006	93	413904	1.43	
76 Ethylbenzene	91	15.878	15.722	0.156	90	29961	0.0808	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	99	29961	0.1027	
82 o-Xylene	91	16.401	16.407	-0.006	69	8528	0.0270	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D

Injection Date: 24-Mar-2014 13:17:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Worklist Smp#: 7

Client ID: PCV-IA2-B5

Purge Vol: 500.000 mL

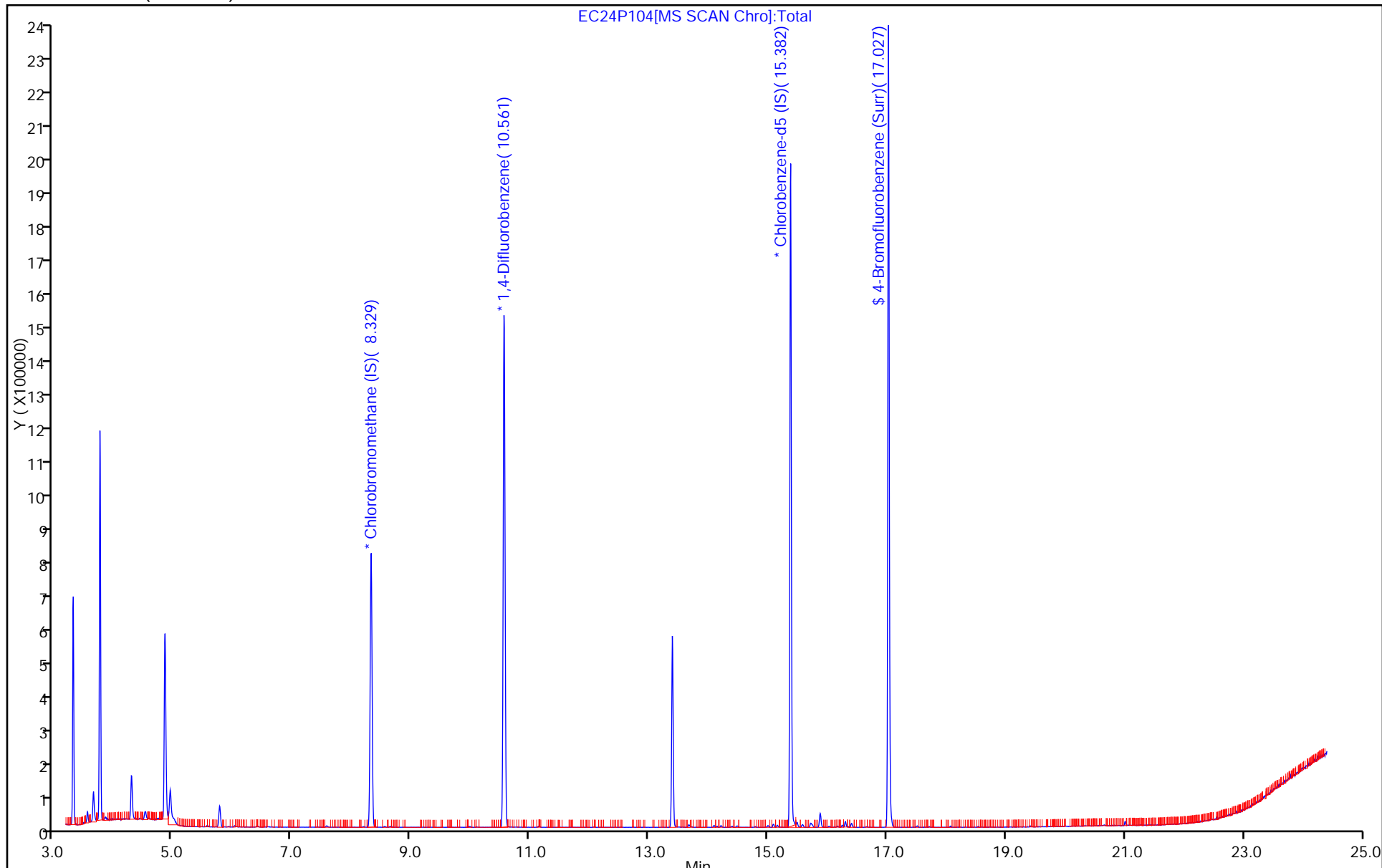
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D

Injection Date: 24-Mar-2014 13:17:30

Instrument ID: ME

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 7126

ALS Bottle#: 4 Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

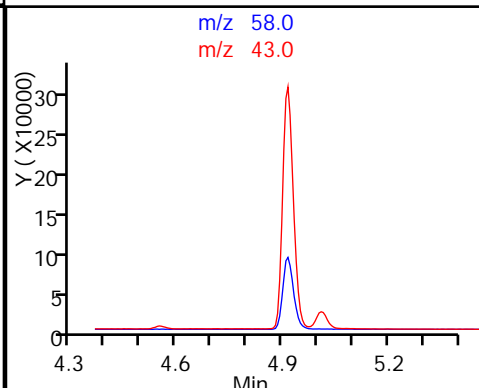
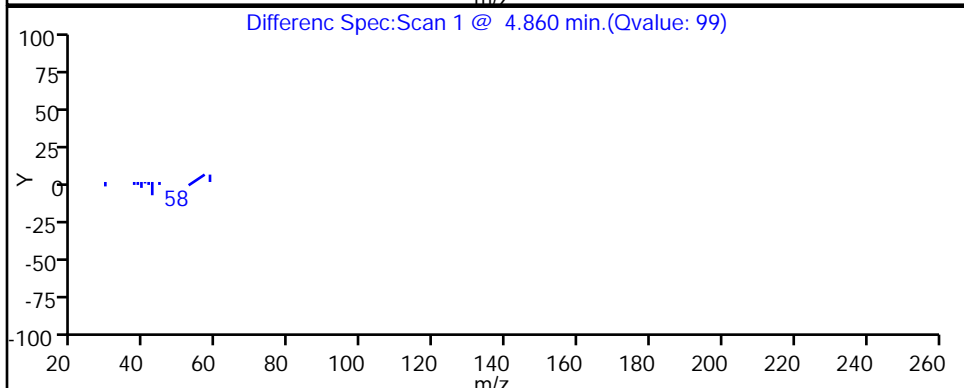
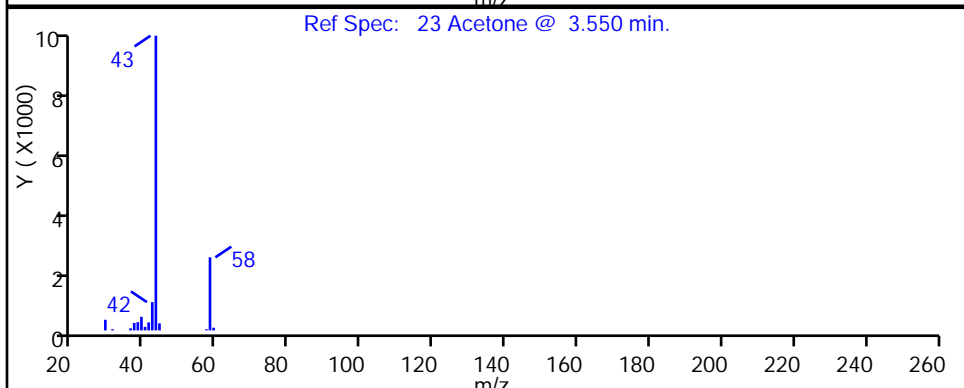
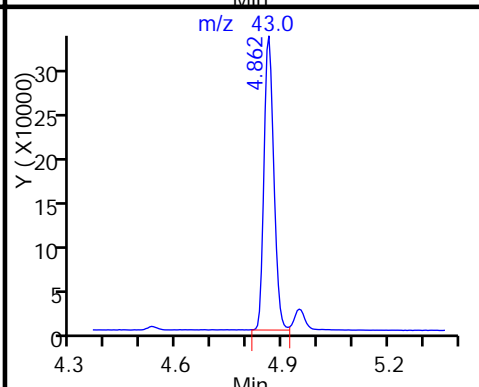
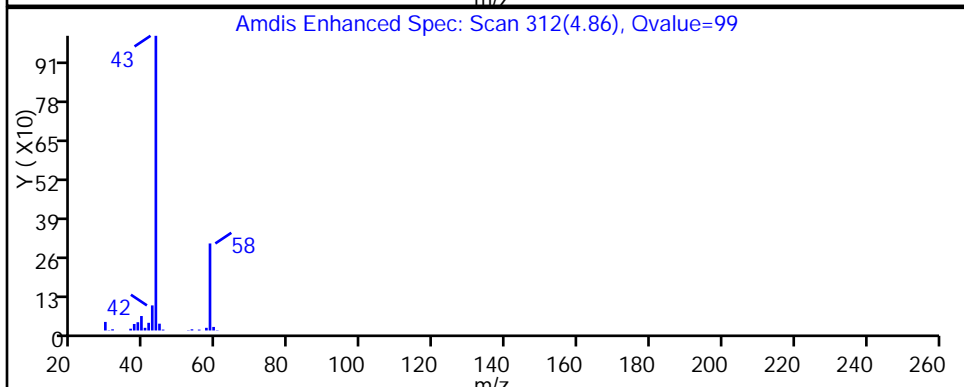
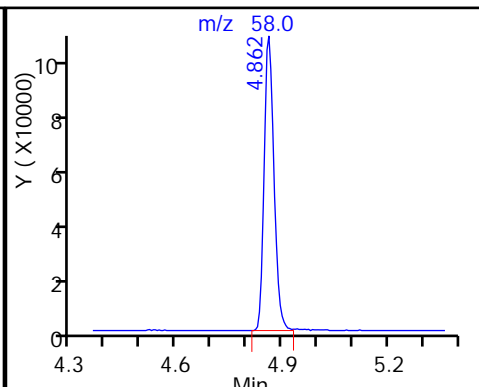
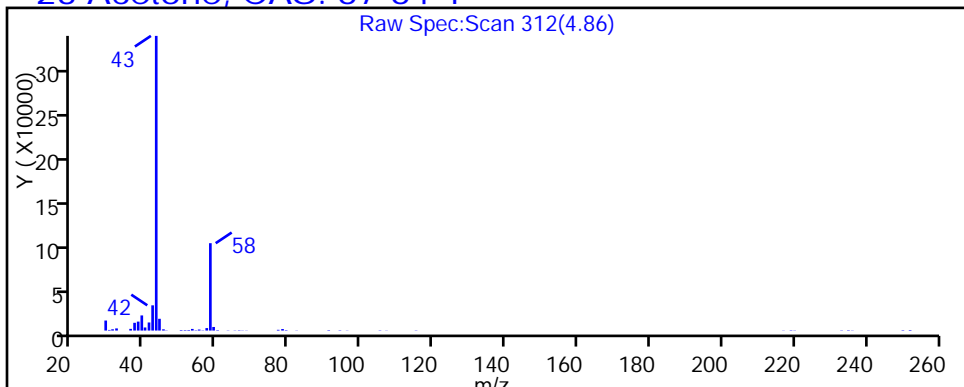
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P104.D

Injection Date: 24-Mar-2014 13:17:30

Instrument ID: ME

Lims ID: 140-1063-A-17

Lab Sample ID: 140-1063-17

Client ID: PCV-IA2-B5

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

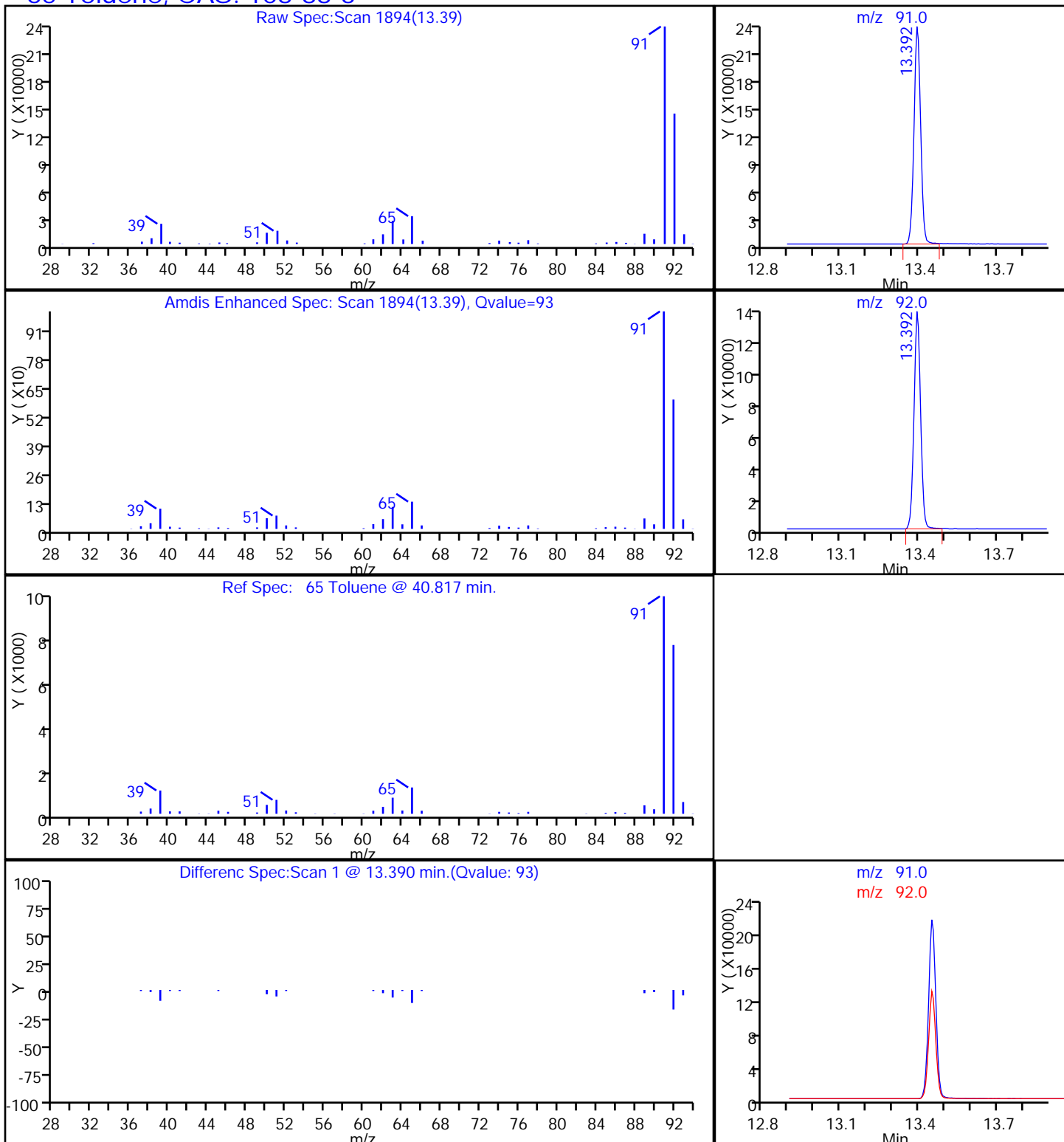
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18
 Matrix: Air Lab File ID: JC21P101.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.48		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.13	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.073	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.095	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.14	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	8.6		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	3.2		0.50	0.031
107-83-5	2-Methylpentane	86.18	0.24		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.22	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.3		0.50	0.045
67-64-1	Acetone	58.08	9.8	*	5.0	1.4
71-43-2	Benzene	78.11	0.37		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	0.054	J	0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18
 Matrix: Air Lab File ID: JC21P101.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.071	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.064	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.12	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	720	E	2.0	2.0
100-41-4	Ethylbenzene	106.17	1.3		0.20	0.068
142-82-5	Heptane	100.21	1.2		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.30	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	8.5		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	46	E	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	5.1		0.20	0.12
91-20-3	Naphthalene	128.17	0.10	J	0.50	0.090
95-47-6	o-Xylene	106.17	1.6		0.20	0.061
115-07-1	Propene	42.08	1.1	cn	0.50	0.077
100-42-5	Styrene	104.15	9.5		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.15	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	17		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.23		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18
 Matrix: Air Lab File ID: JC21P101.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18
 Matrix: Air Lab File ID: JC21P101.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	2.3		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.62	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.16	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.57	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.67	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	25		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	9.4		1.5	0.091
107-83-5	2-Methylpentane	86.18	0.85		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	1.1	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	13		2.0	0.18
67-64-1	Acetone	58.08	23	*	12	3.3
71-43-2	Benzene	78.11	1.2		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	0.17	J	1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18
 Matrix: Air Lab File ID: JC21P101.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.31	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.42	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	1400	E	3.8	3.8
100-41-4	Ethylbenzene	106.17	5.5		0.87	0.30
142-82-5	Heptane	100.21	5.0		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	1.0	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	21		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	160	E	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	22		0.87	0.52
91-20-3	Naphthalene	128.17	0.54	J	2.6	0.47
95-47-6	o-Xylene	106.17	6.9		0.87	0.26
115-07-1	Propene	42.08	1.9	cn	0.86	0.13
100-42-5	Styrene	104.15	40		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.0	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	65		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	1.2		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 Lab Sample ID: 140-1063-18
 Matrix: Air Lab File ID: JC21P101.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D
 Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18
 Client ID: PCV-IAPC-B5
 Sample Type: Client
 Inject. Date: 21-Mar-2014 15:32:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-18
 Misc. Info.: J032114,TO15,,140-0000540-006
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 08:38:53 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 08:38:53

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.379	-0.002	90	357606	4.00	
* 2 1,4-Difluorobenzene	114	11.529	11.530	-0.001	94	1688006	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.193	16.194	-0.001	87	1376386	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.812	17.814	-0.002	91	938447	3.85	
7 Propene	41	3.976	3.972	0.004	95	48611	0.4433	
8 Dichlorodifluoromethane	85	4.024	4.031	-0.007	100	63095	0.1781	
9 Chloromethane	52	4.229	4.231	-0.002	97	8950	0.2224	
14 Butadiene	54	4.514	4.516	-0.002	25	2683	0.0291	
17 Ethanol	31	5.149	5.113	0.036	89	8254224	287.5	E
19 2-Methylbutane	43	5.401	5.409	-0.008	93	193450	1.27	
20 Trichlorofluoromethane	101	5.638	5.640	-0.002	90	25899	0.0832	
23 Acetone	58	5.762	5.769	-0.007	98	199863	3.93	
24 Isopropyl alcohol	45	5.886	5.844	0.042	73	457674	3.41	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.576	-0.002	50	5731	0.0266	
31 Methylene Chloride	84	6.746	6.753	-0.007	93	1776571	18.6	E
33 Carbon disulfide	76	6.929	6.931	-0.002	81	7222	0.0215	
35 2-Methylpentane	43	7.618	7.620	-0.002	90	26674	0.0967	
39 2-Butanone (MEK)	72	8.581	8.583	-0.001	100	115866	3.42	
40 Hexane	56	8.629	8.631	-0.002	77	11444	0.1190	
43 Chloroform	83	9.382	9.389	-0.007	3	5370	0.0258	
48 Benzene	78	11.012	11.014	-0.002	94	43037	0.1486	
49 Cyclohexane	69	11.018	11.025	-0.007	36	2758	0.0483	
50 Carbon tetrachloride	117	11.044	11.046	-0.002	85	6782	0.0283	
53 Isooctane	57	11.755	11.756	-0.001	86	28229	0.0571	
54 n-Heptane	71	12.115	12.117	-0.002	91	50113	0.4893	
56 Trichloroethene	130	12.233	12.235	-0.002	85	12761	0.0908	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.365	0.003	98	230825	1.30	
65 Toluene	91	14.245	14.247	-0.002	94	1754903	6.87	
73 Tetrachloroethene	129	15.375	15.377	-0.002	80	7144	0.0601	
76 Ethylbenzene	91	16.521	16.523	-0.002	99	144093	0.5109	
78 m-Xylene & p-Xylene	91	16.677	16.684	-0.007	99	461404	2.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
80 Styrene	104	17.145	17.141	0.004	99	592671	3.79	
82 o-Xylene	91	17.204	17.206	-0.002	88	147393	0.6389	
88 4-Ethyltoluene	105	18.441	18.443	-0.002	83	26994	0.0881	
89 1,3,5-Trimethylbenzene	120	18.511	18.513	-0.002	86	7808	0.0507	
93 1,2,4-Trimethylbenzene	105	18.936	18.938	-0.002	96	50895	0.1904	
97 1,4-Dichlorobenzene	146	19.291	19.288	0.003	65	6198	0.0379	
112 Naphthalene	128	21.518	21.515	0.003	83	8877	0.0410	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Worklist Smp#: 6

Client ID: PCV-IAPC-B5

Purge Vol: 500.000 mL

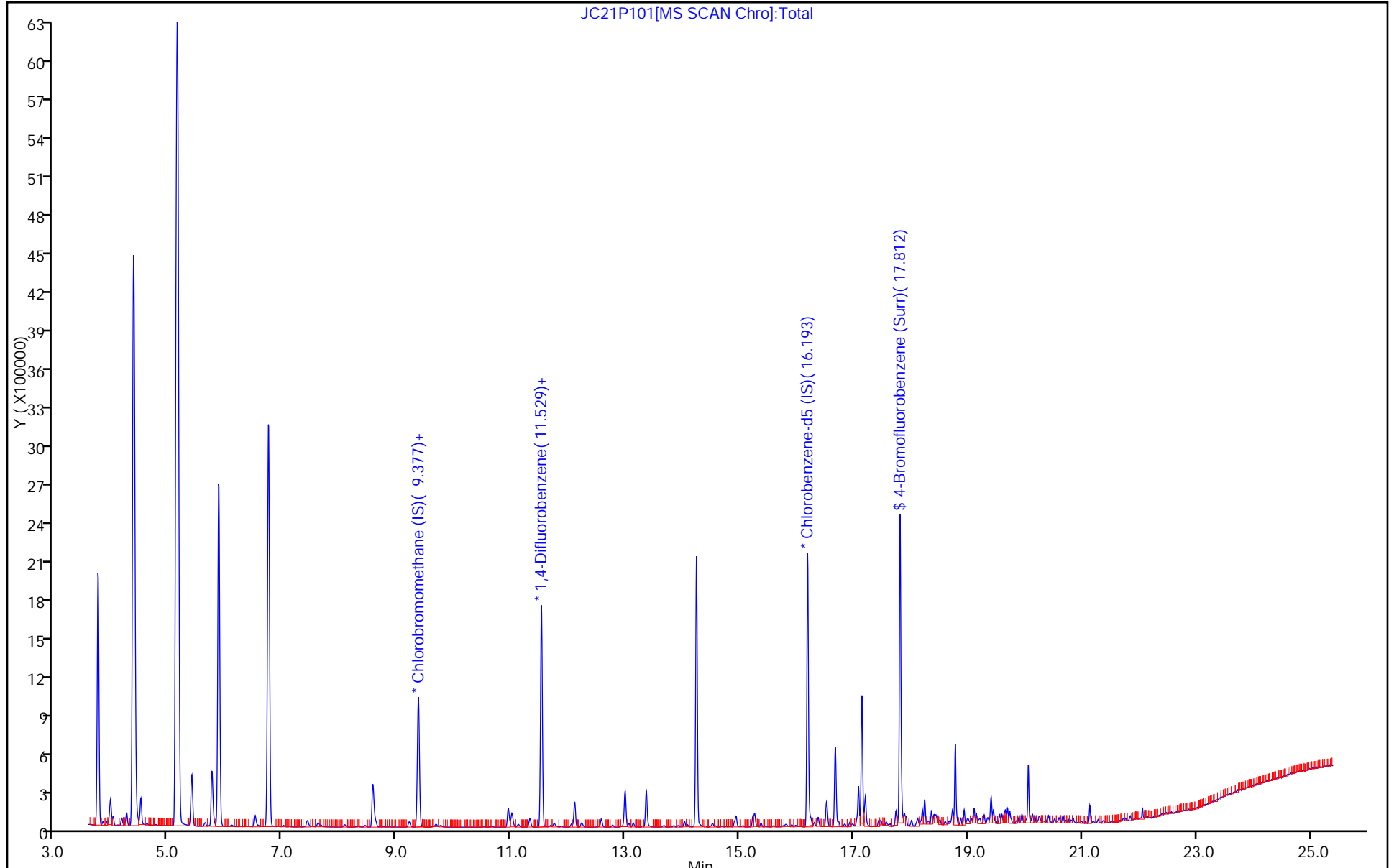
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

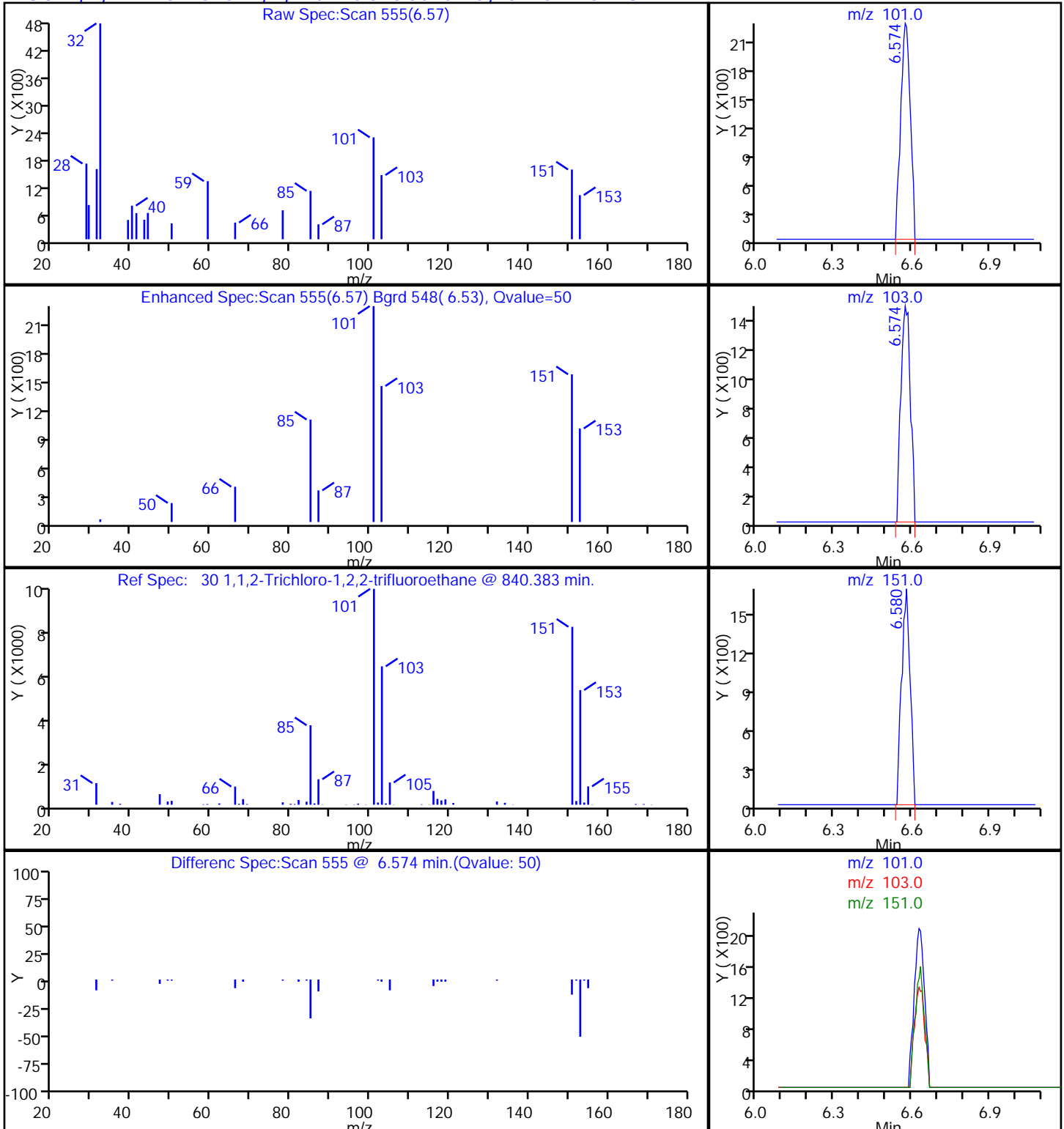
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

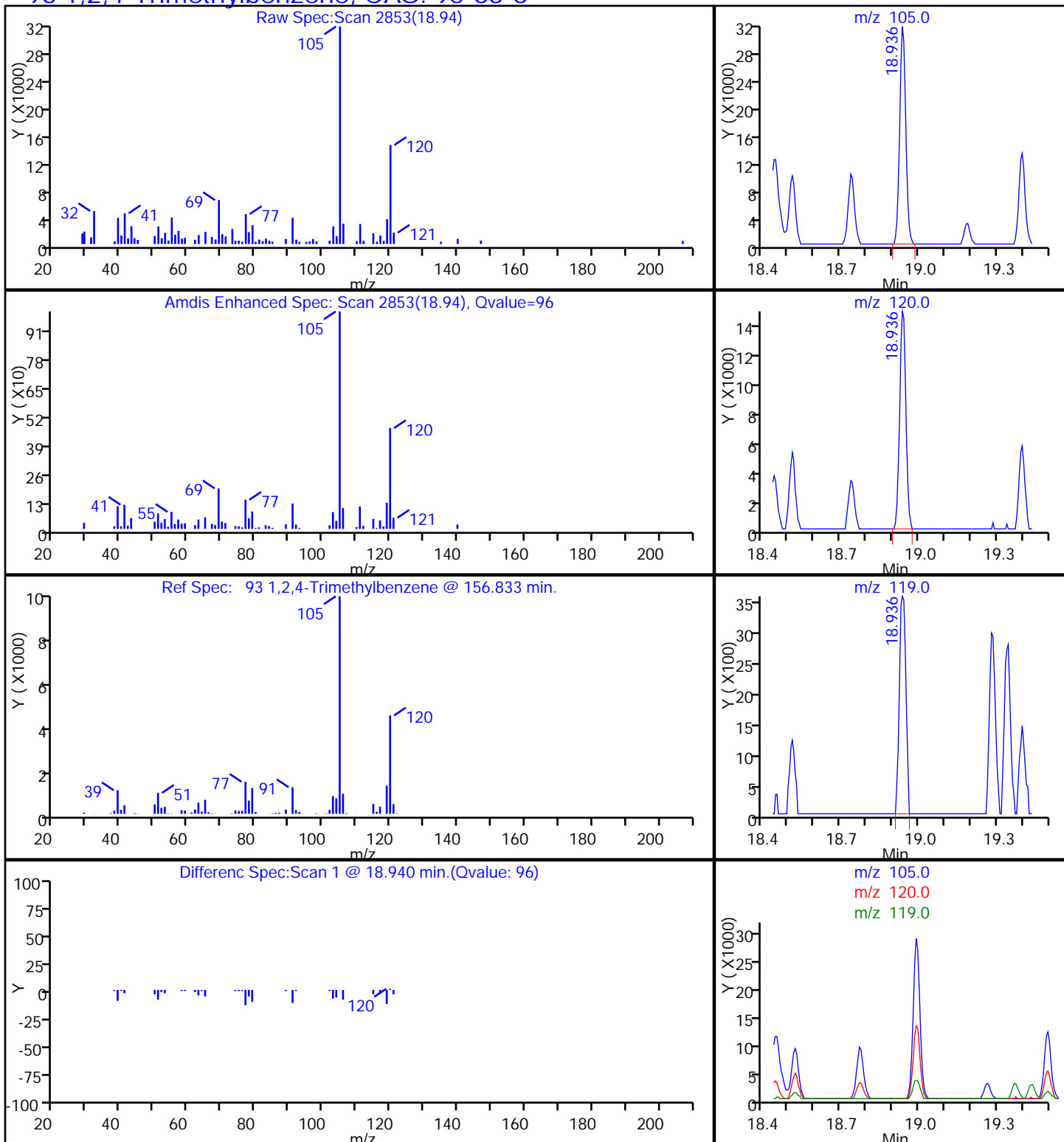
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

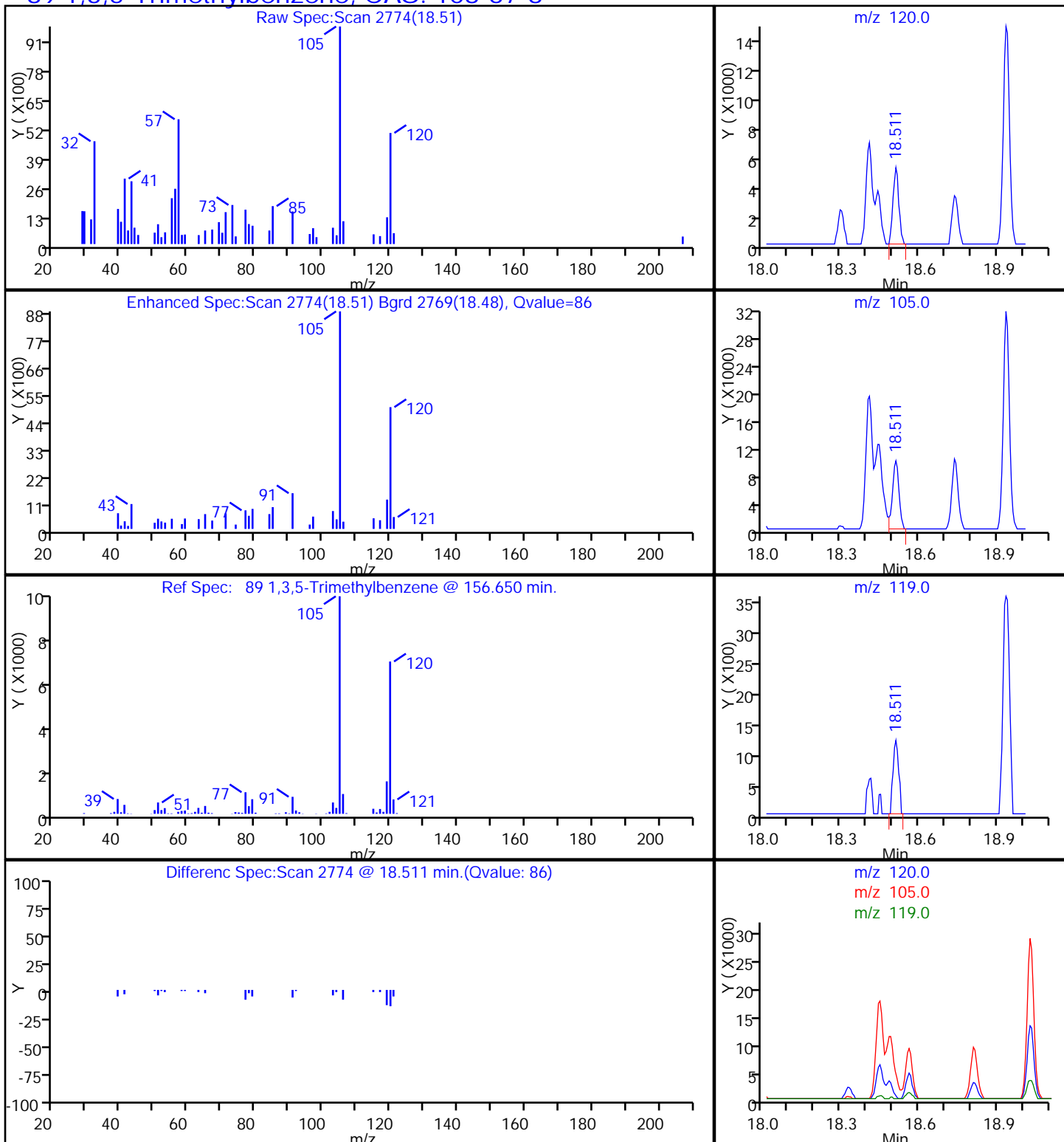
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

89 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

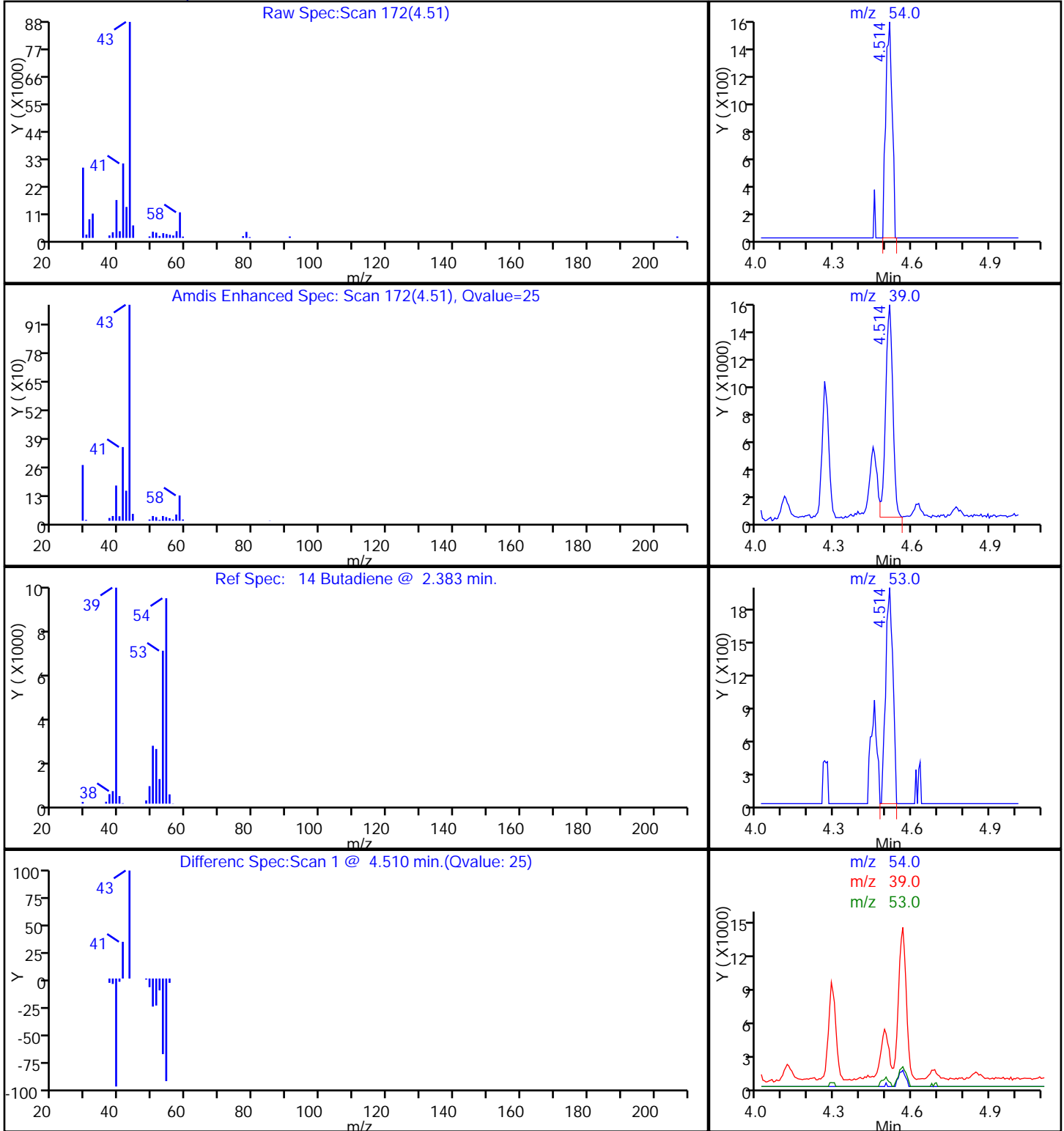
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

14 Butadiene, CAS: 106-99-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

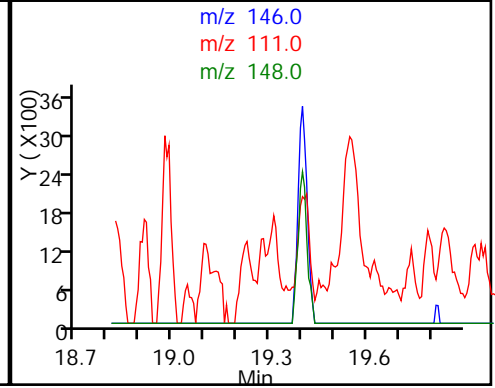
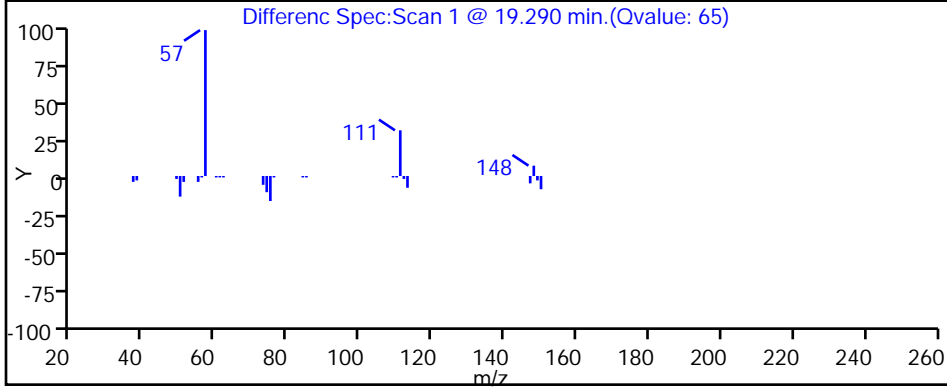
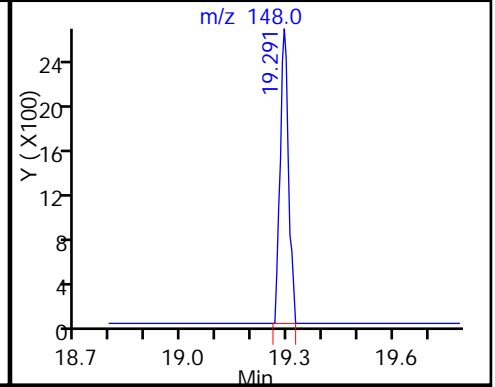
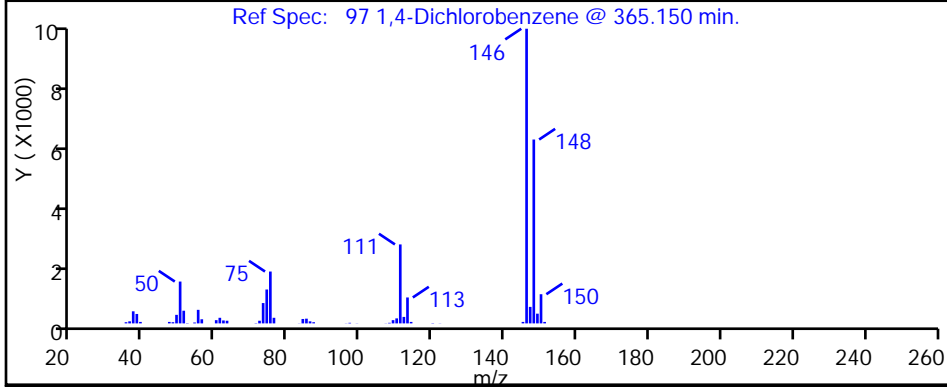
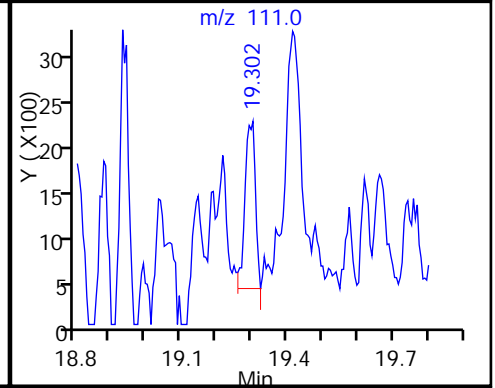
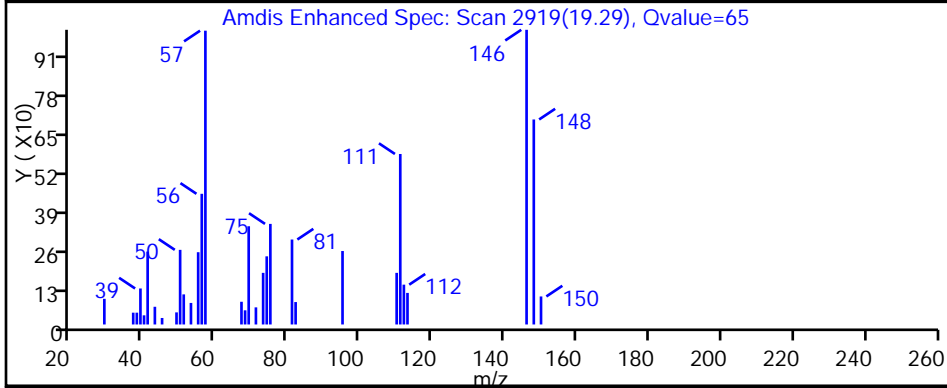
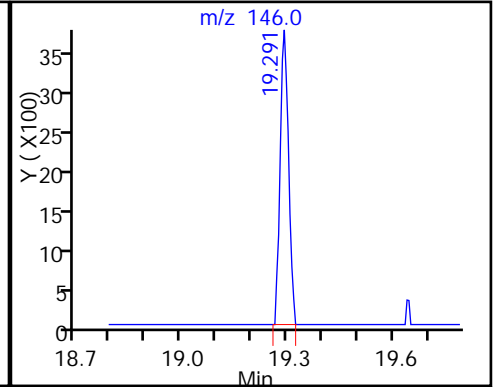
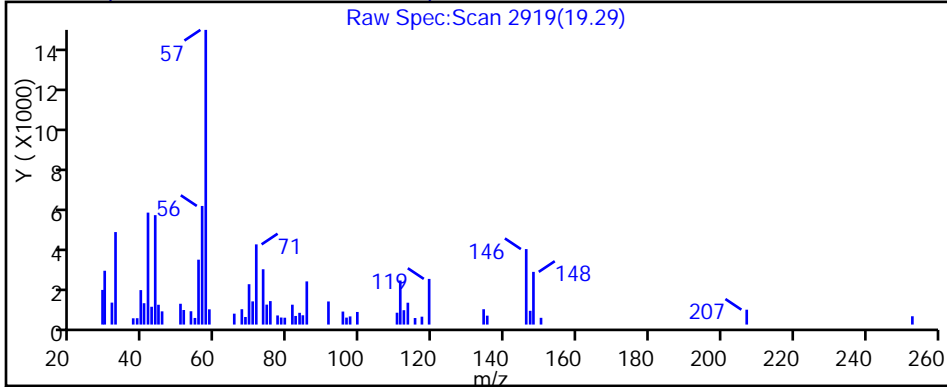
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

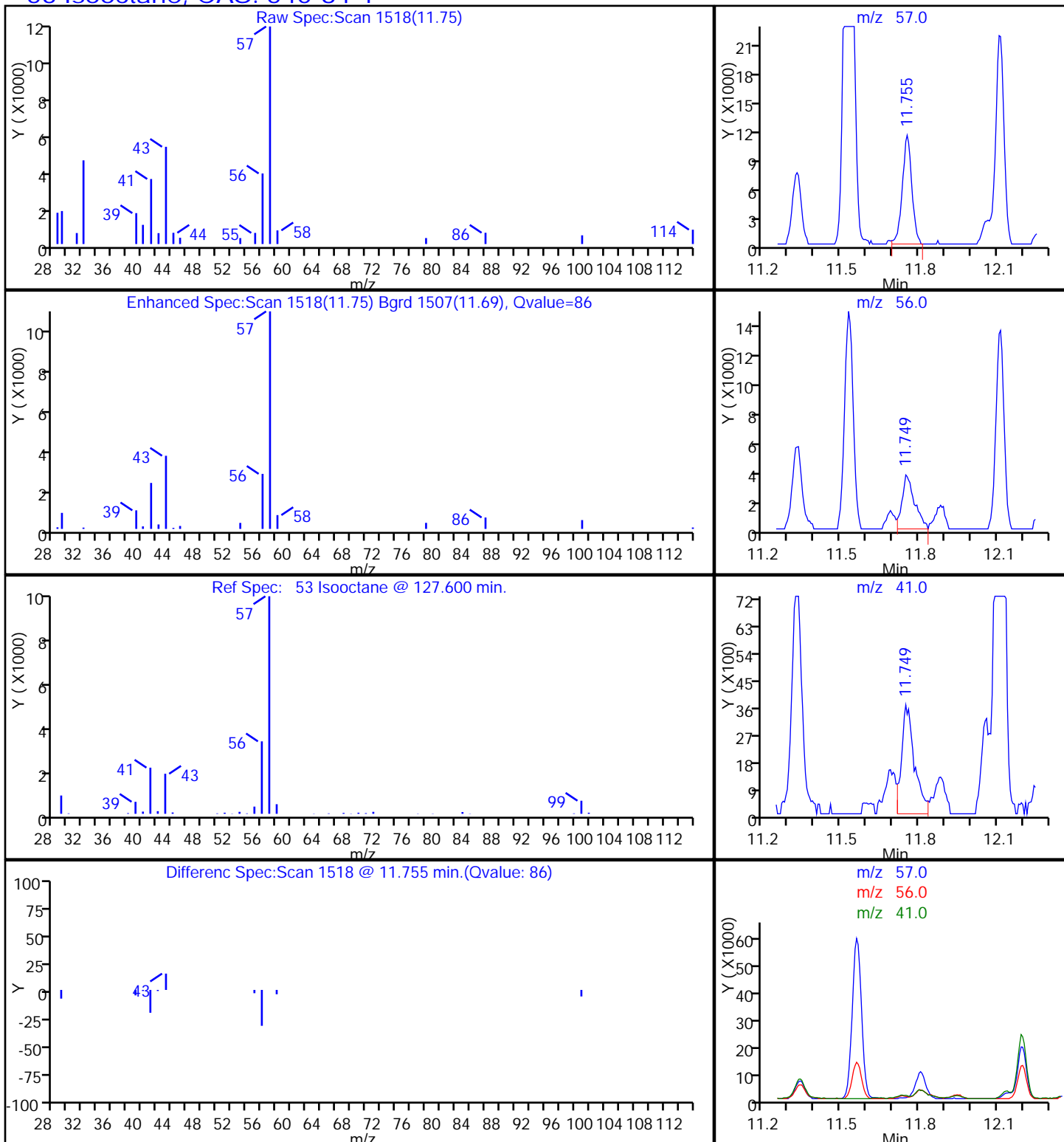
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

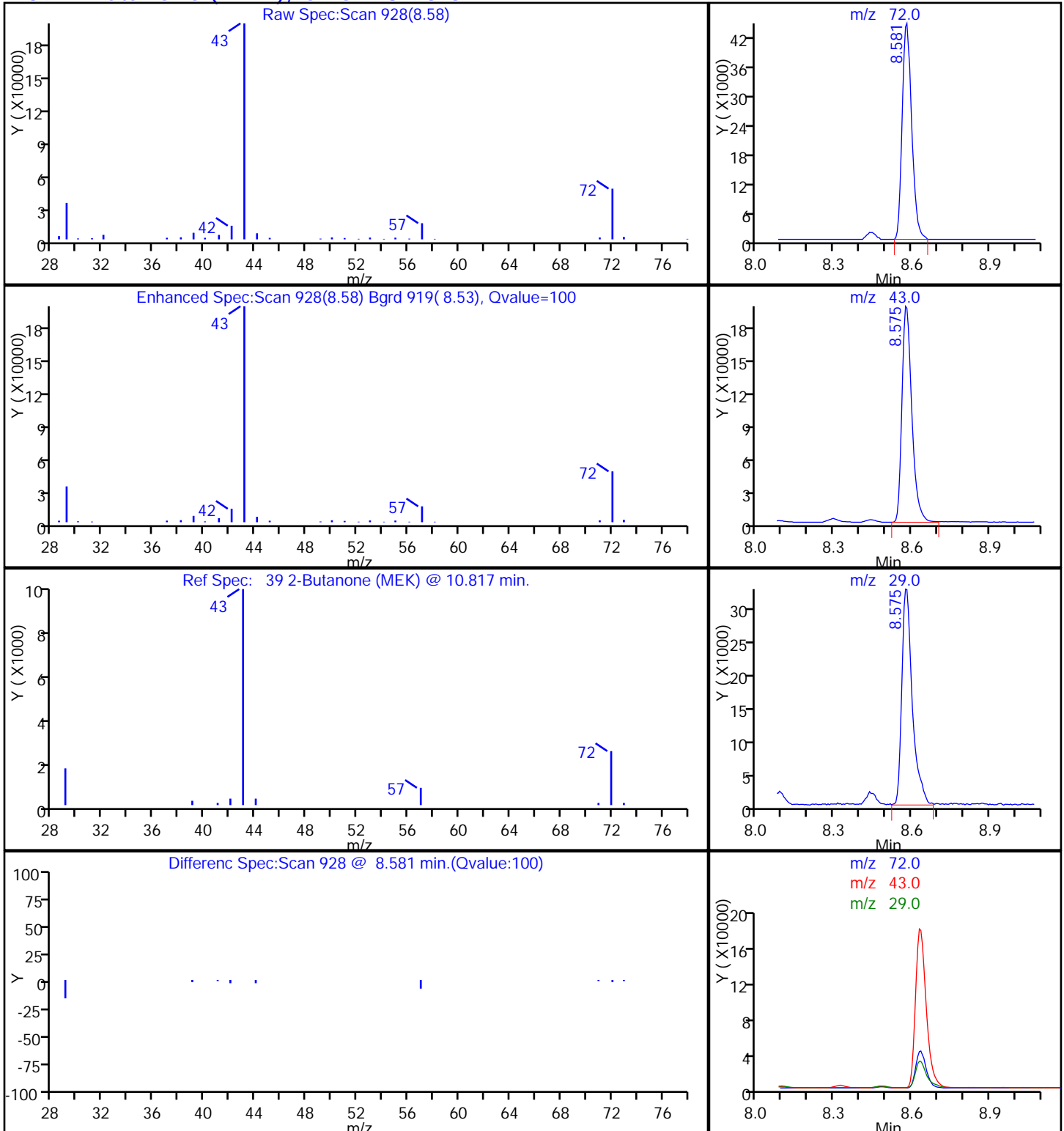
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

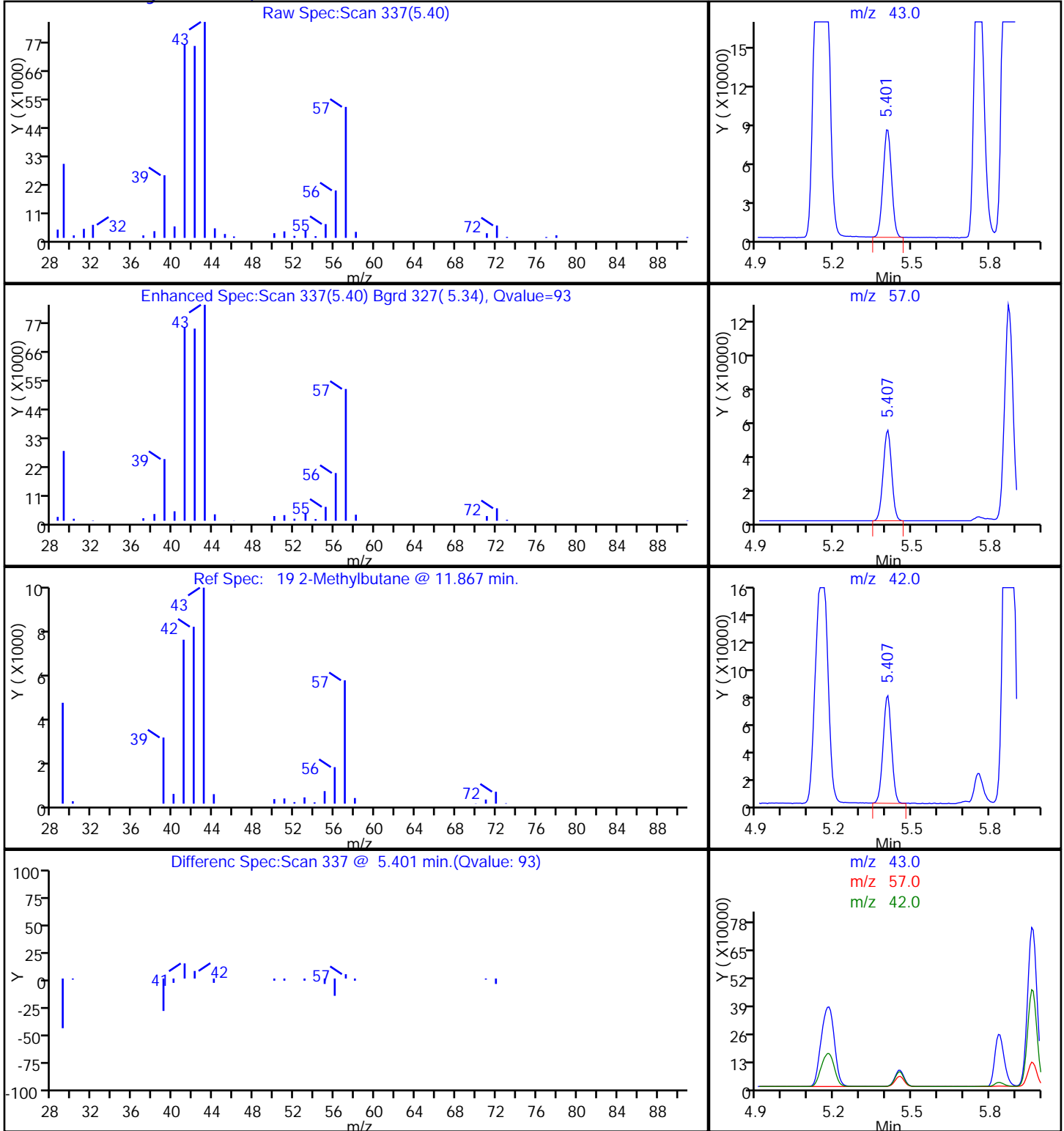
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

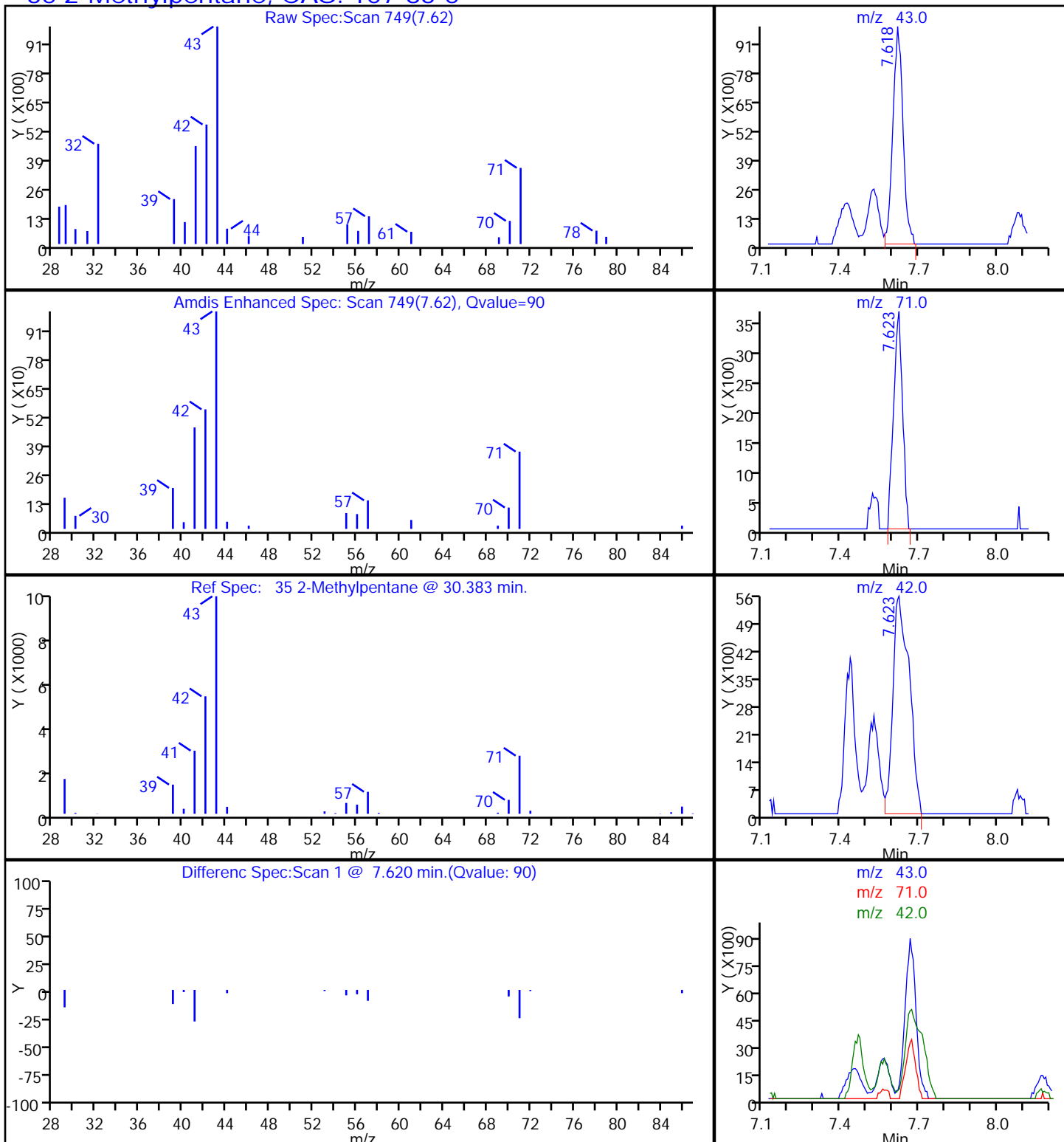
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

35 2-Methylpentane, CAS: 107-83-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

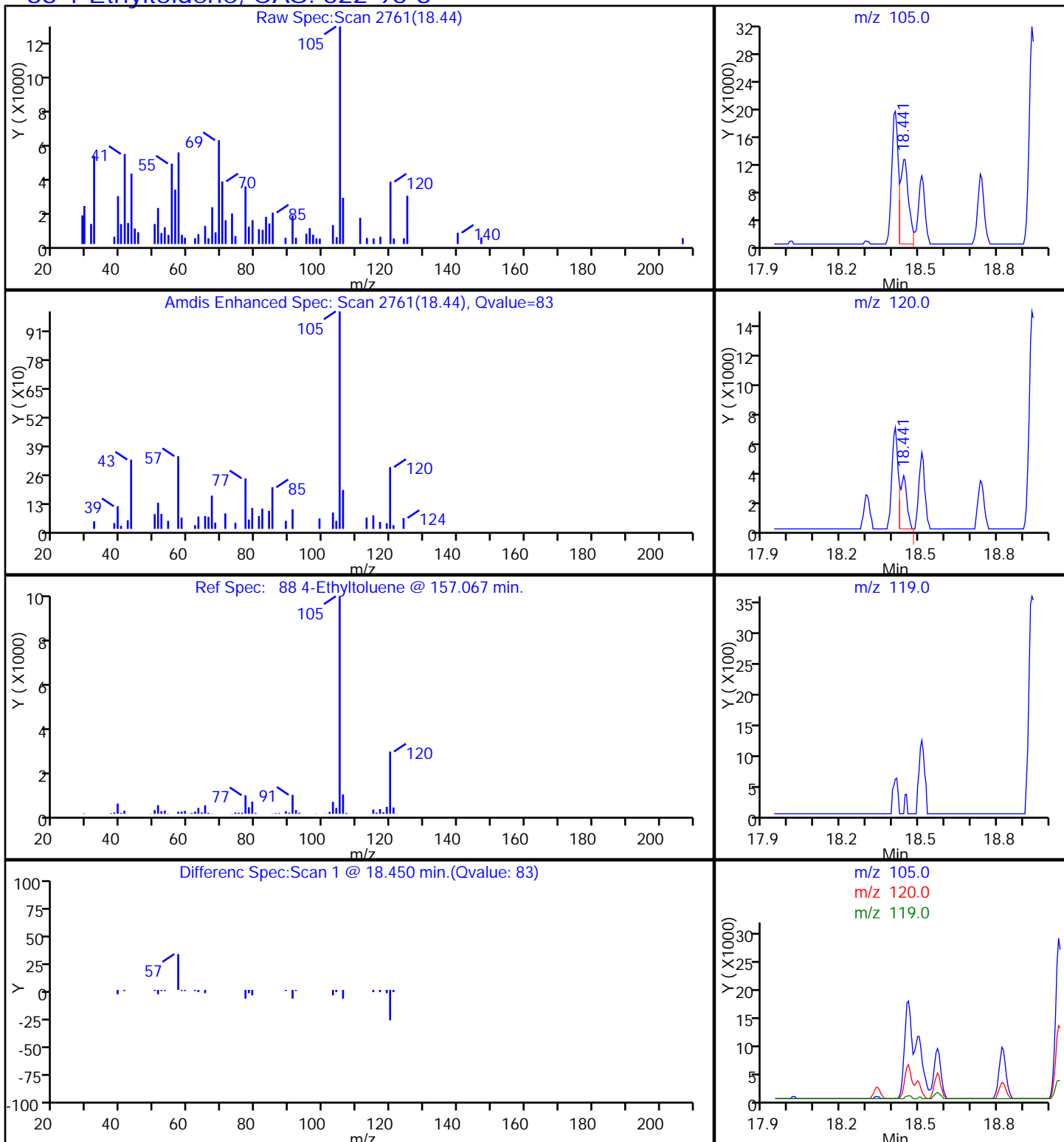
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

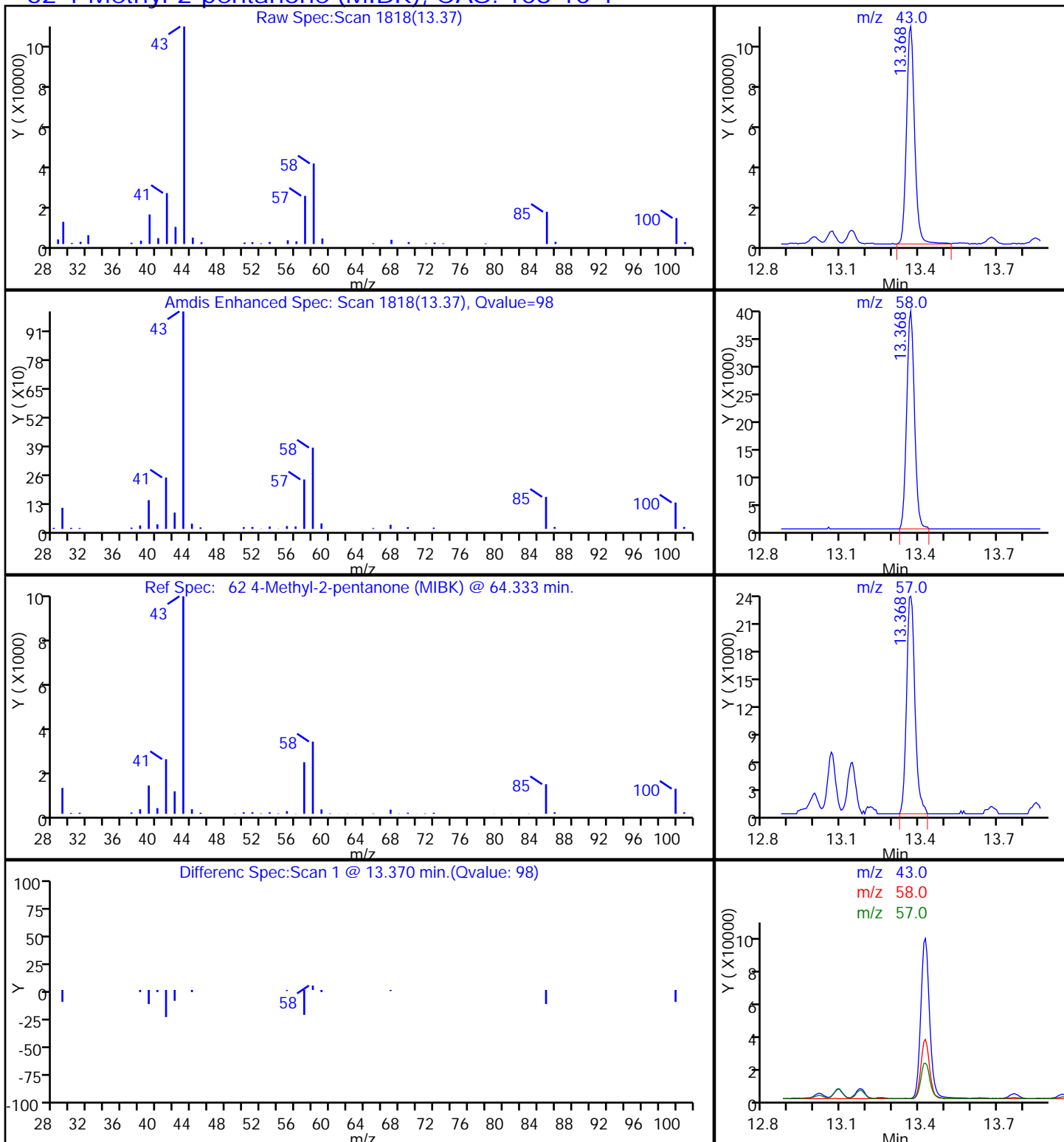
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

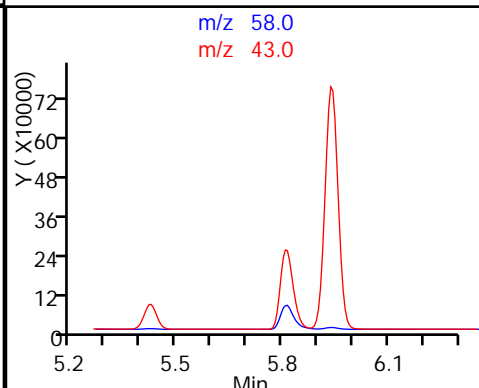
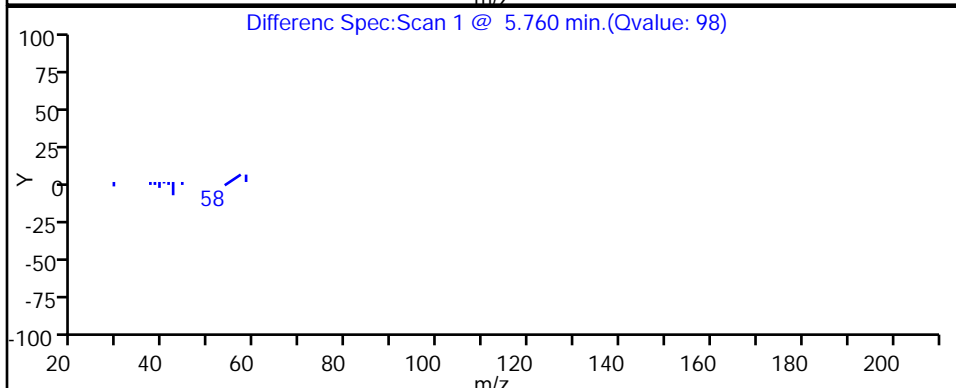
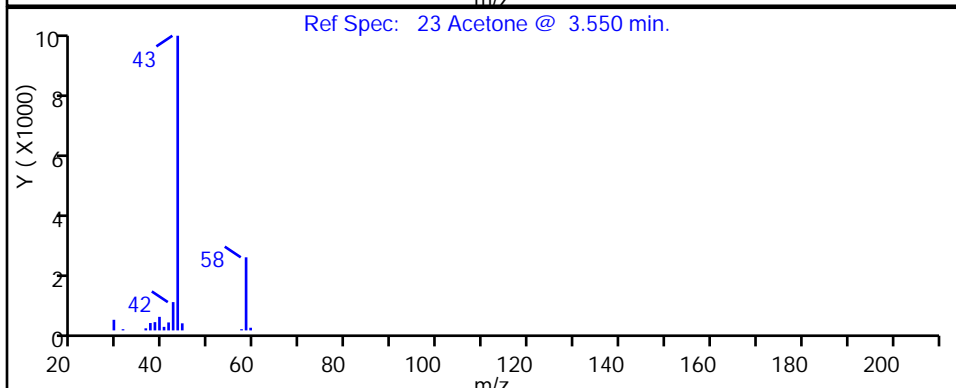
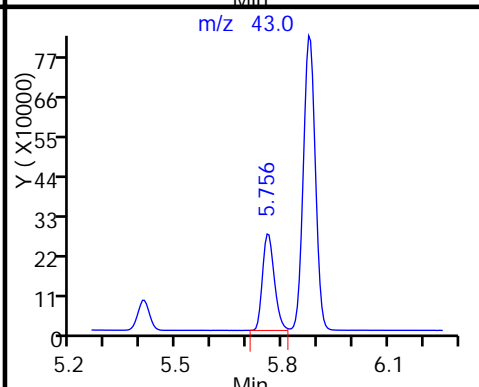
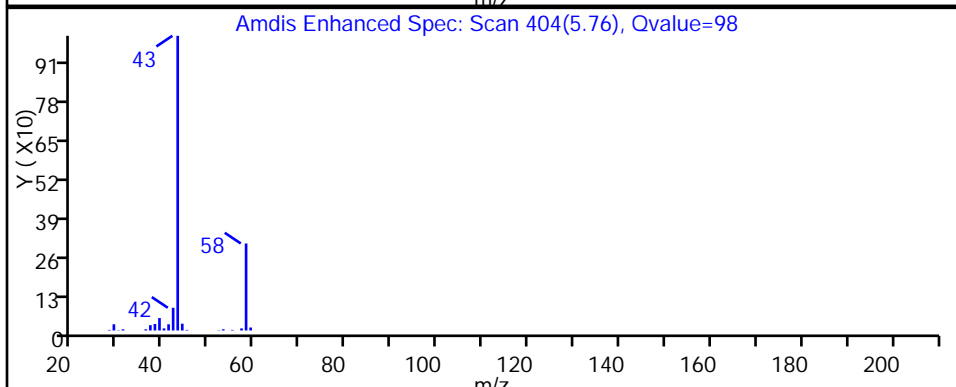
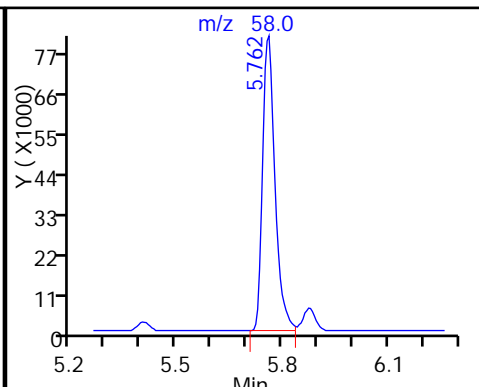
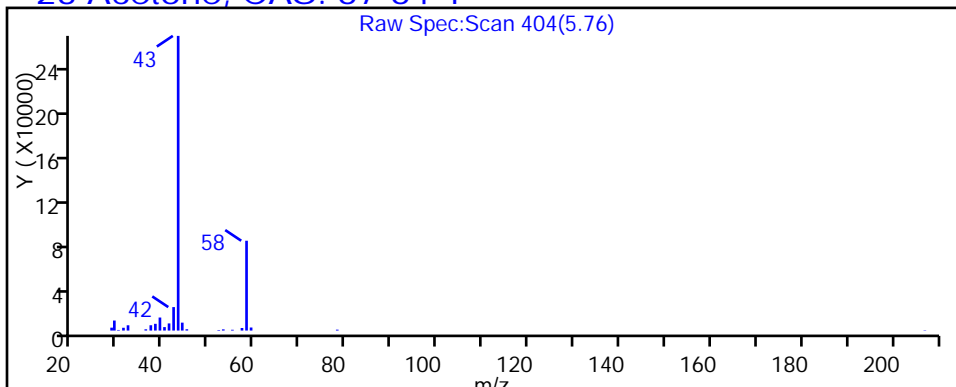
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

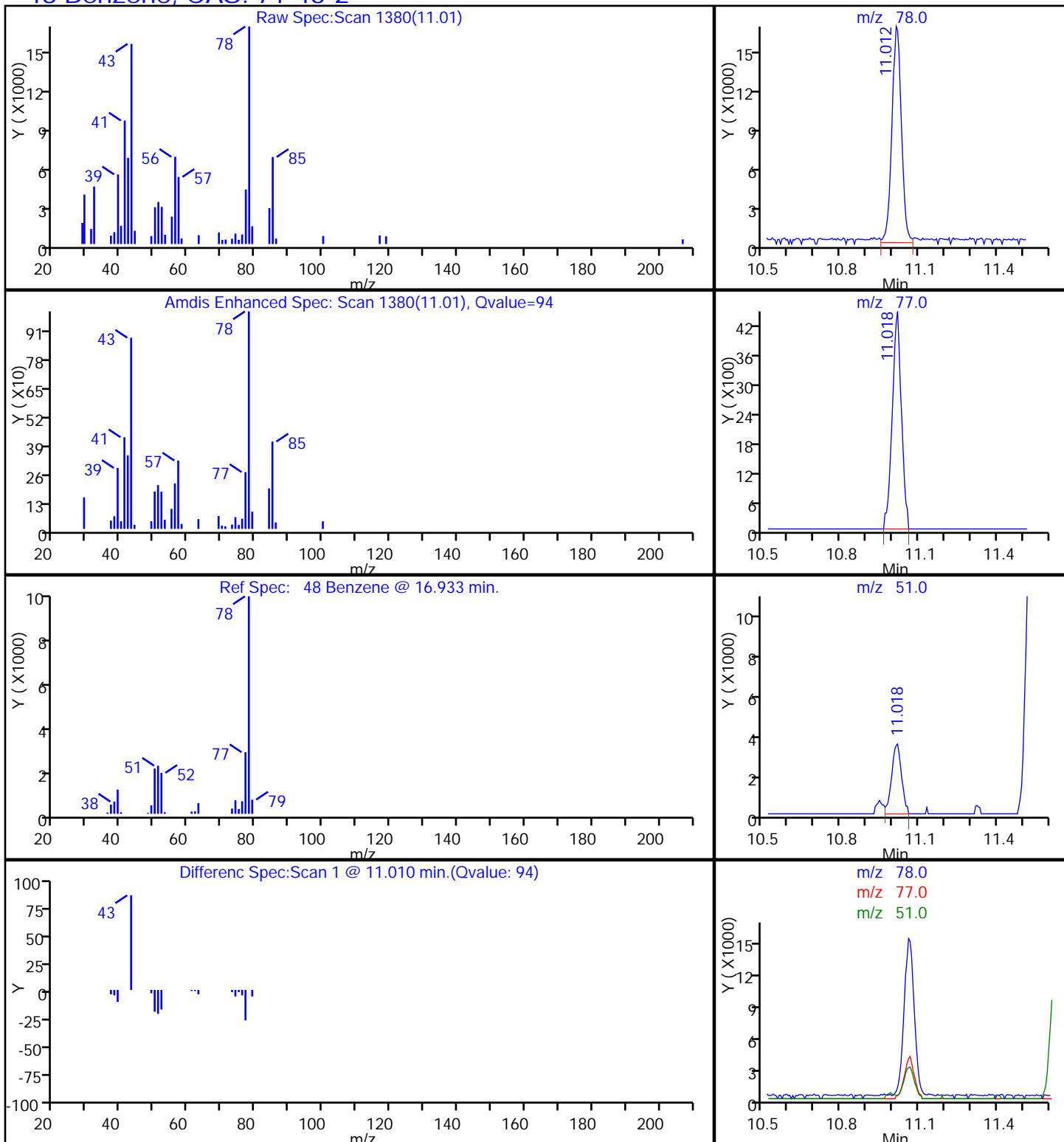
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

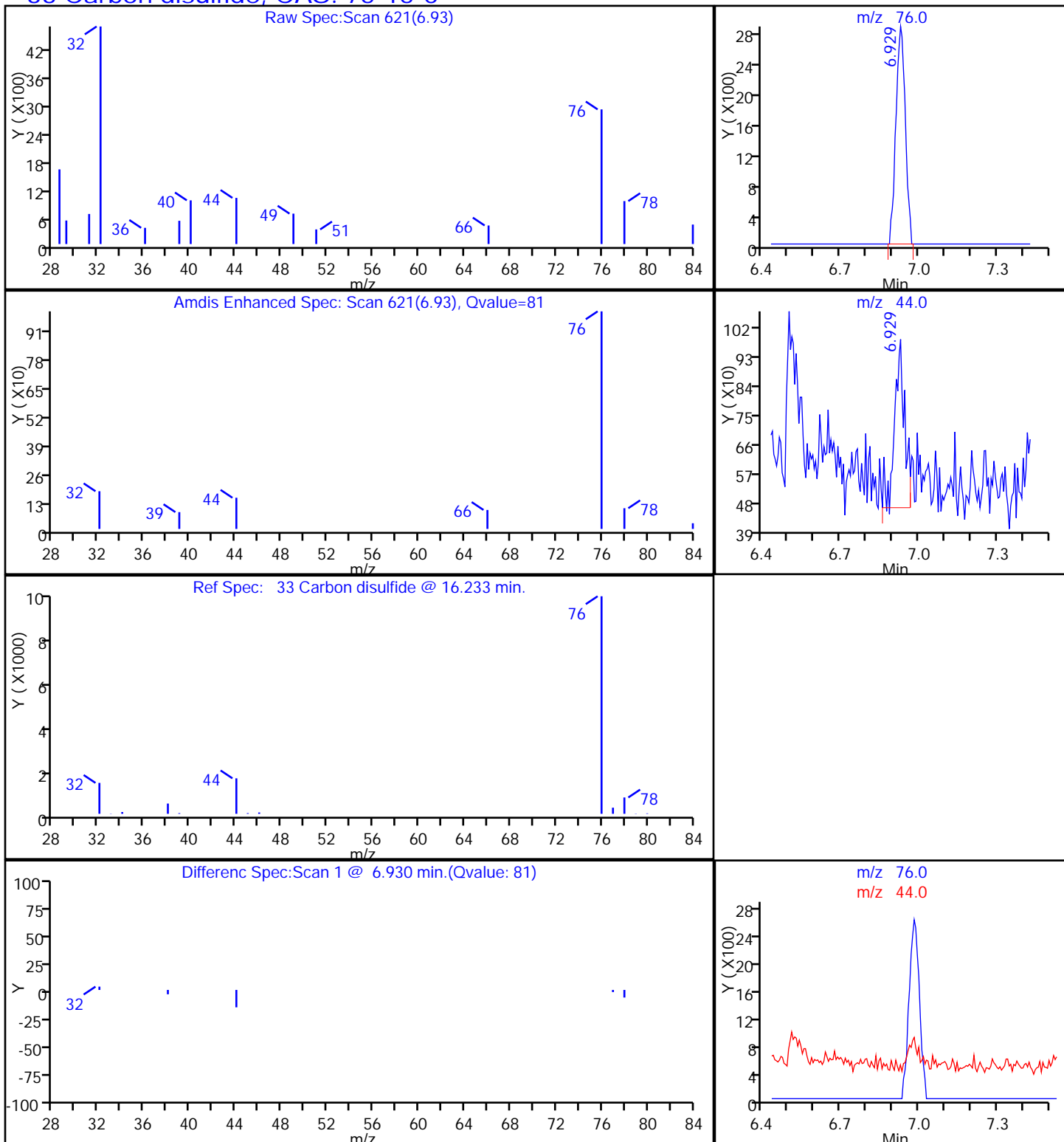
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

33 Carbon disulfide, CAS: 75-15-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

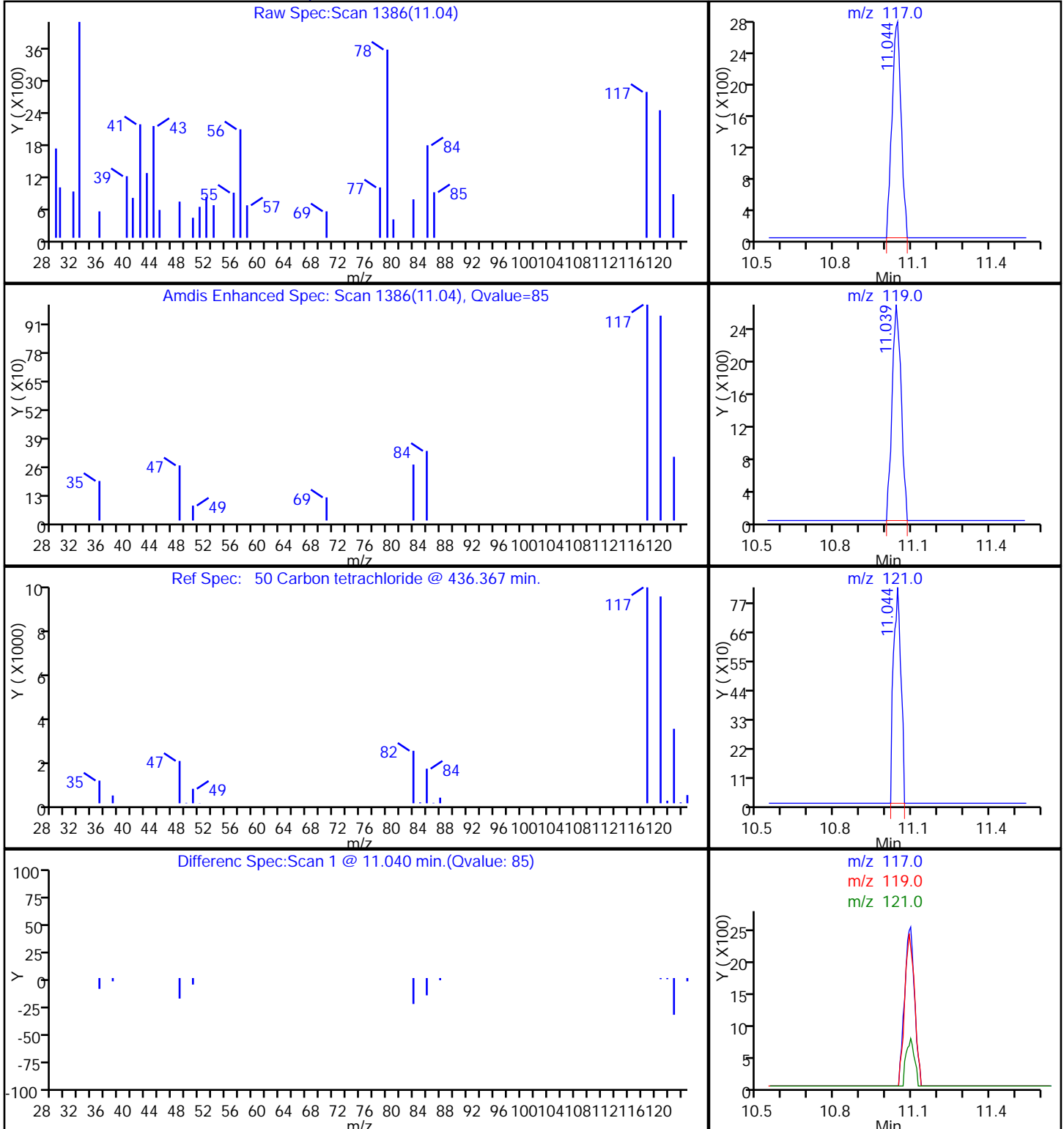
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

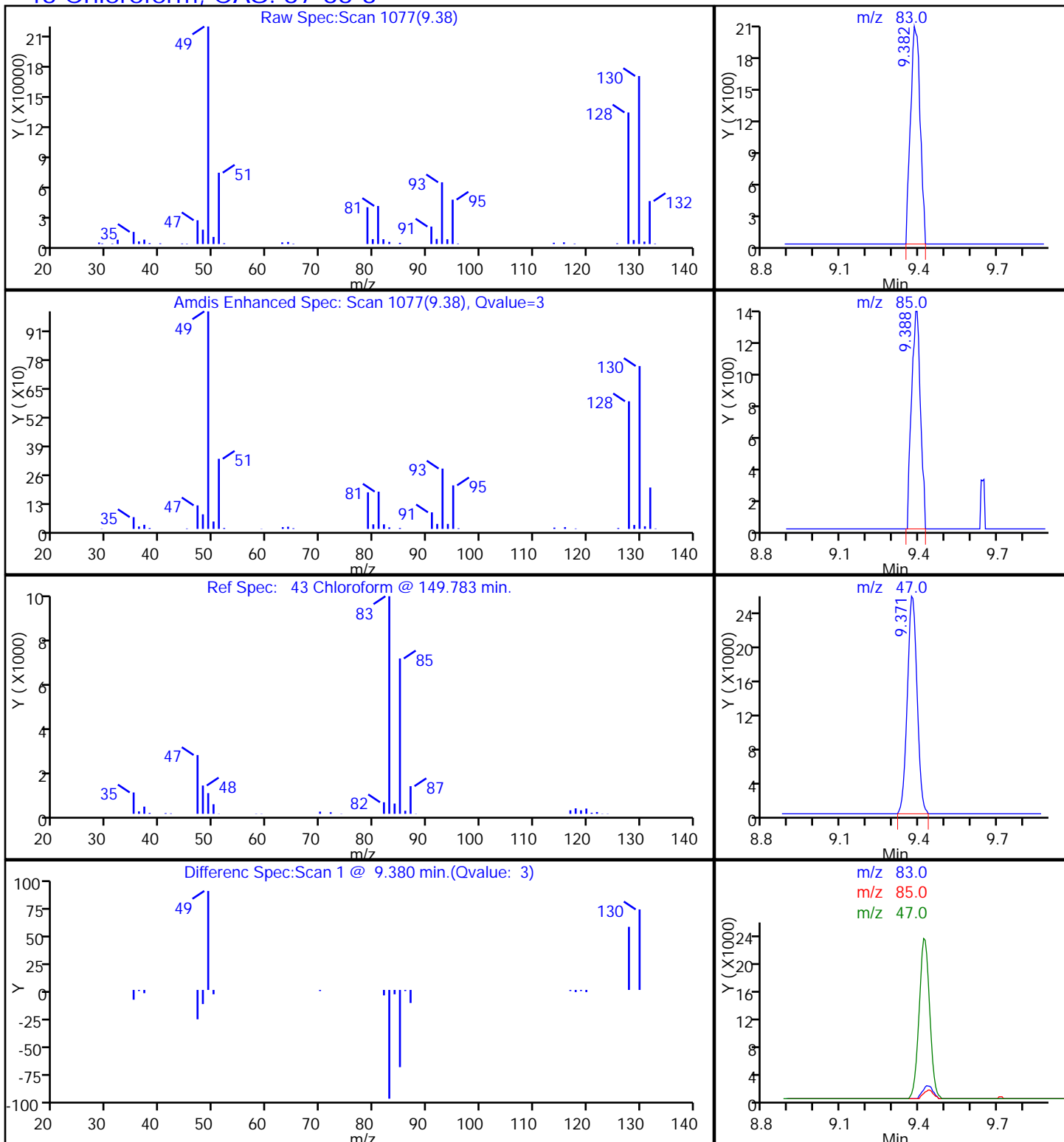
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

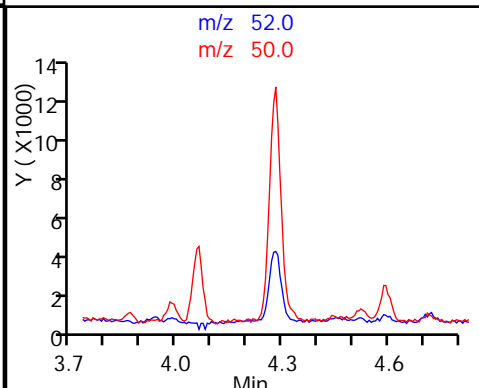
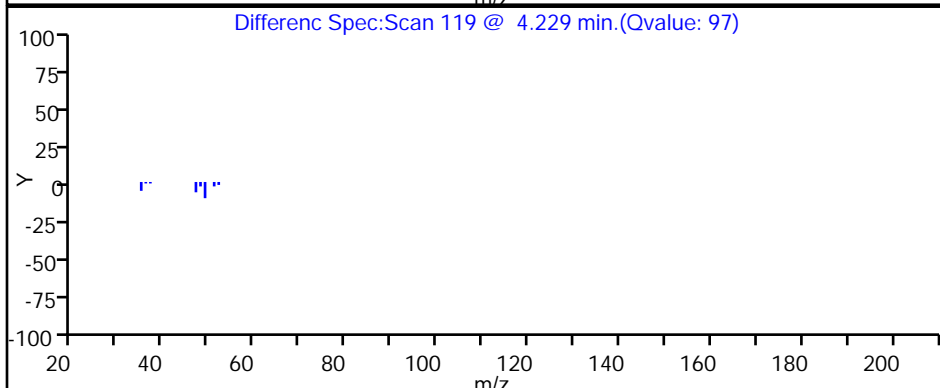
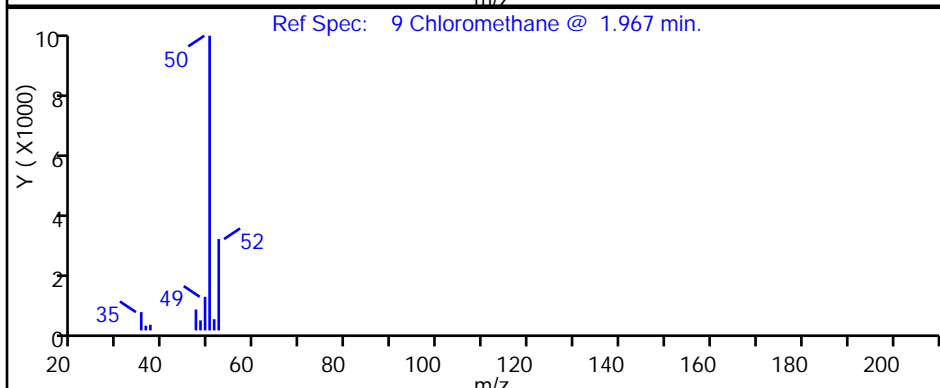
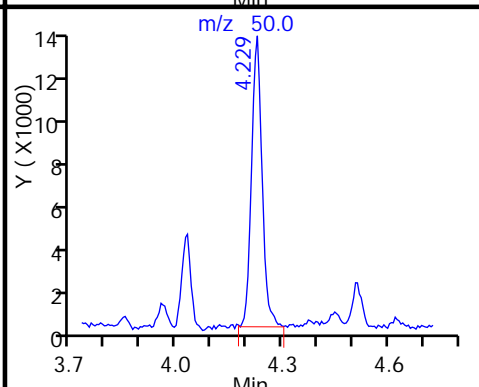
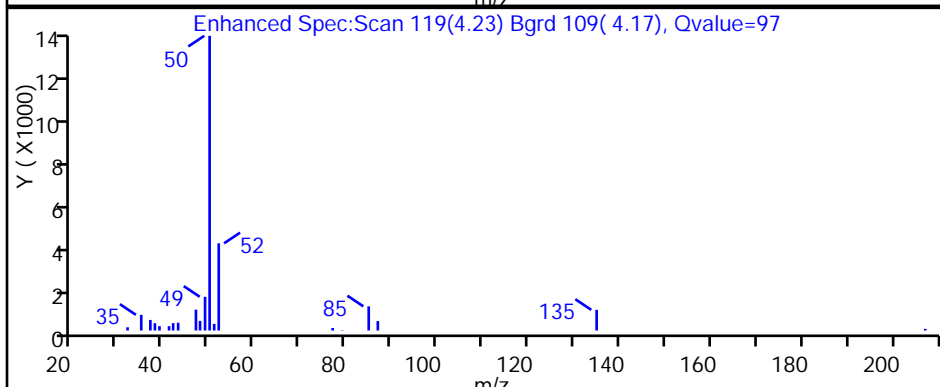
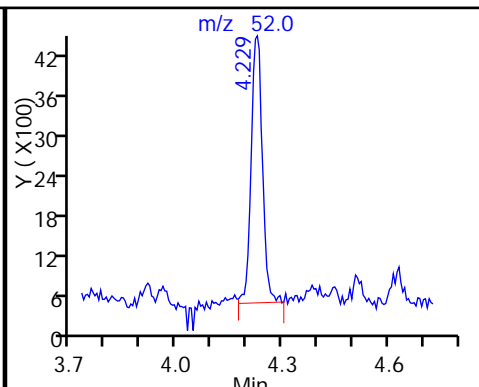
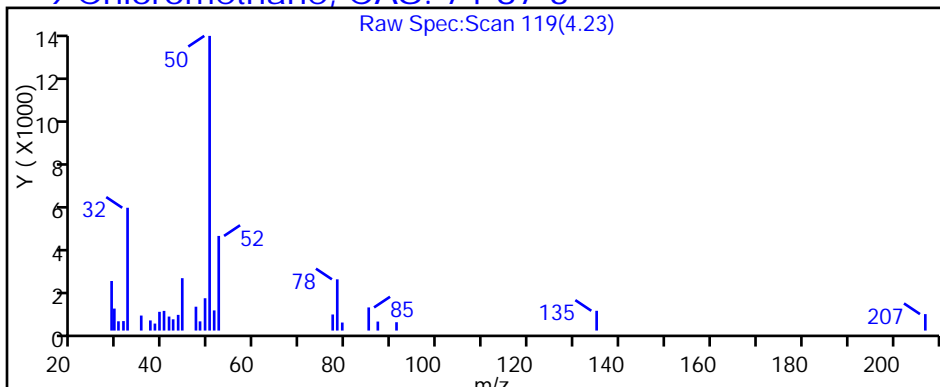
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

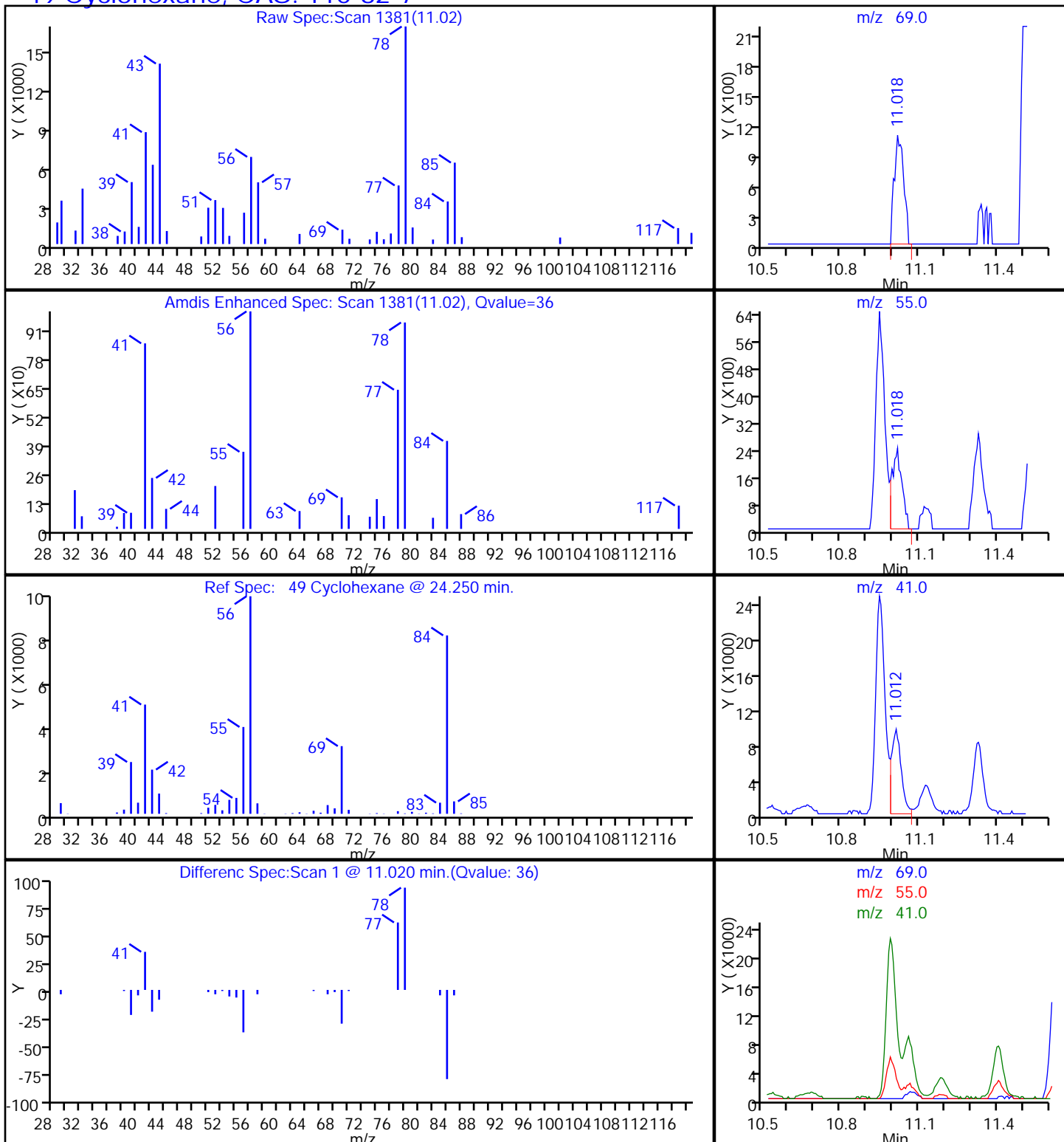
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

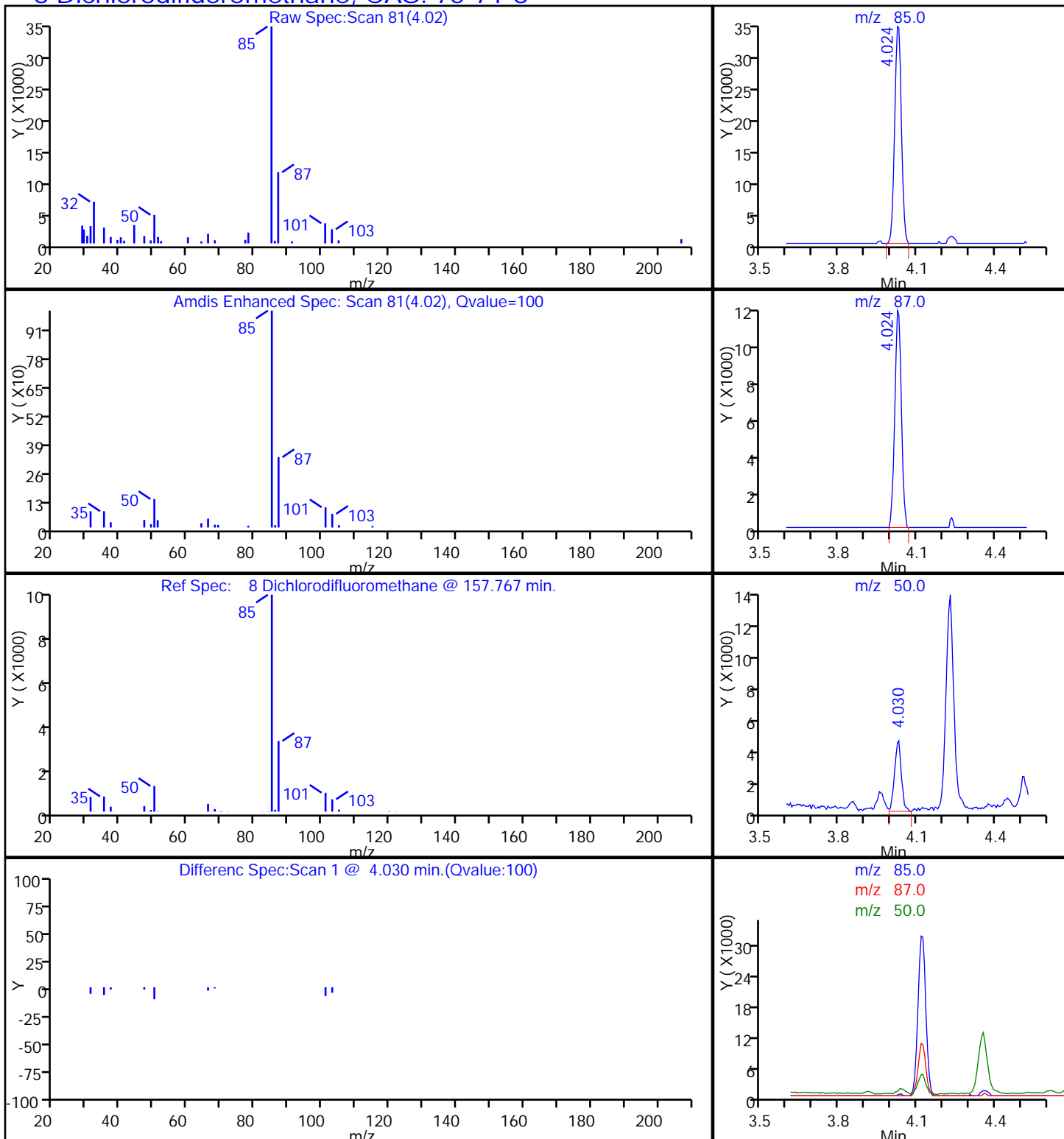
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

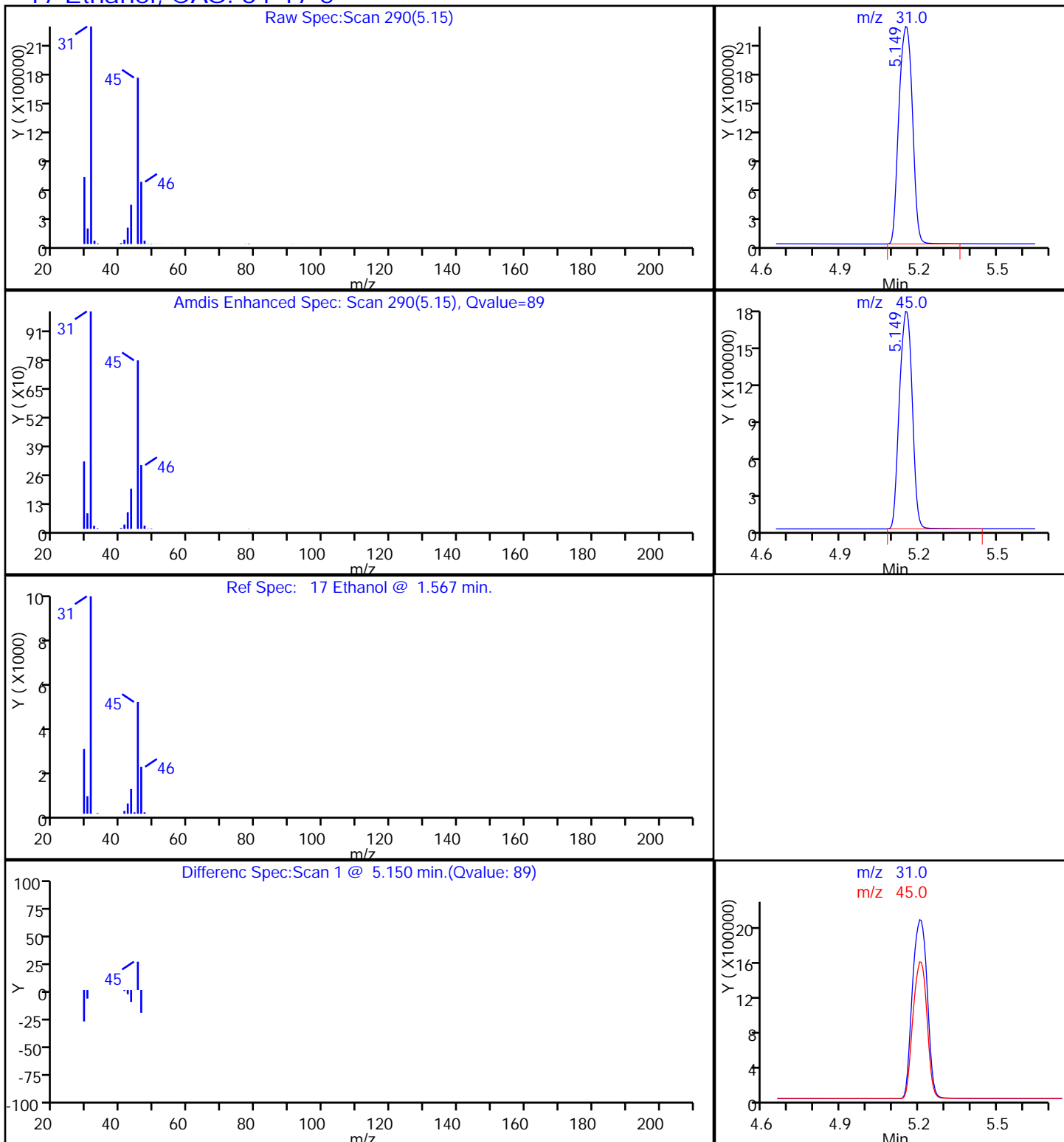
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

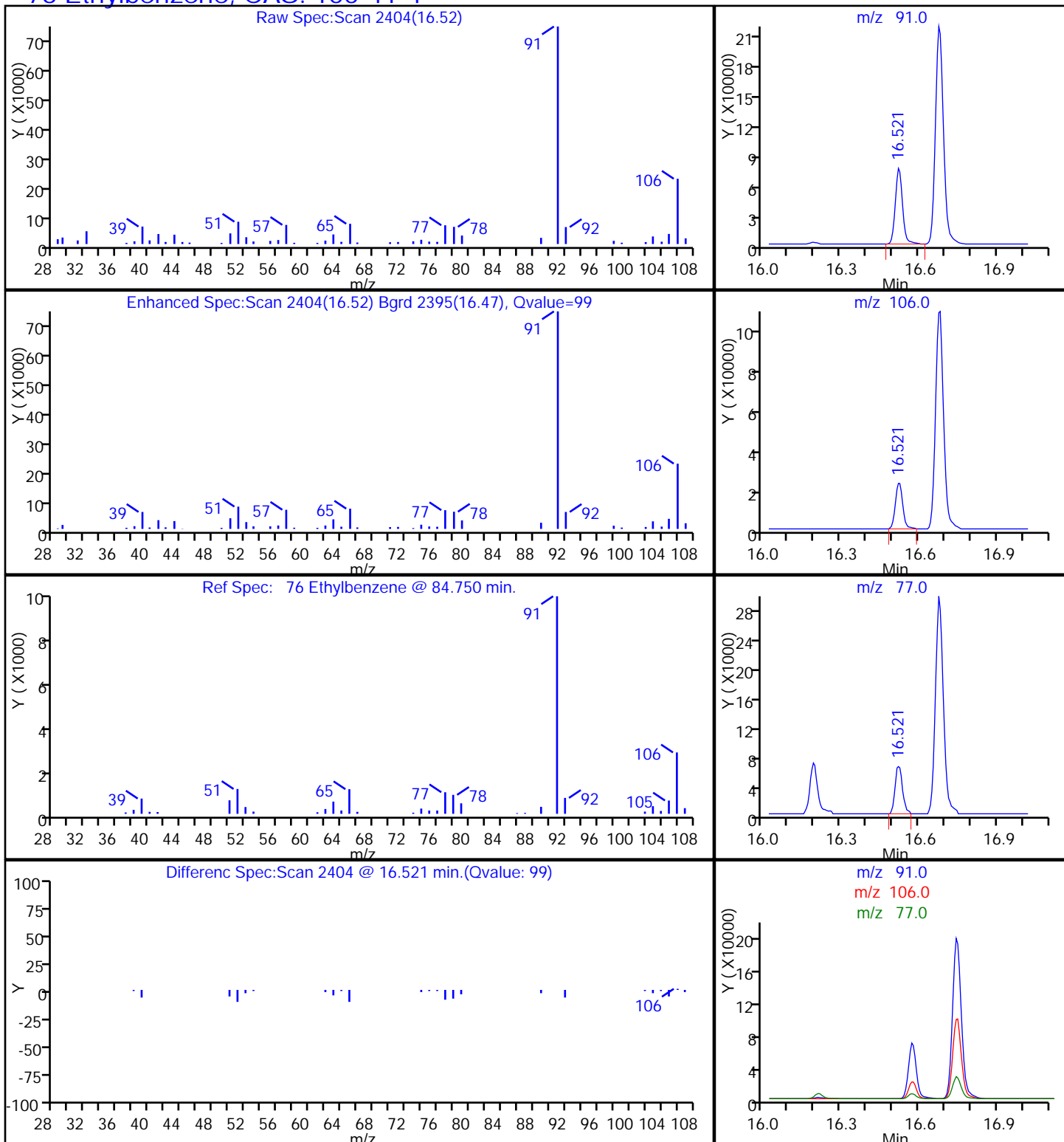
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

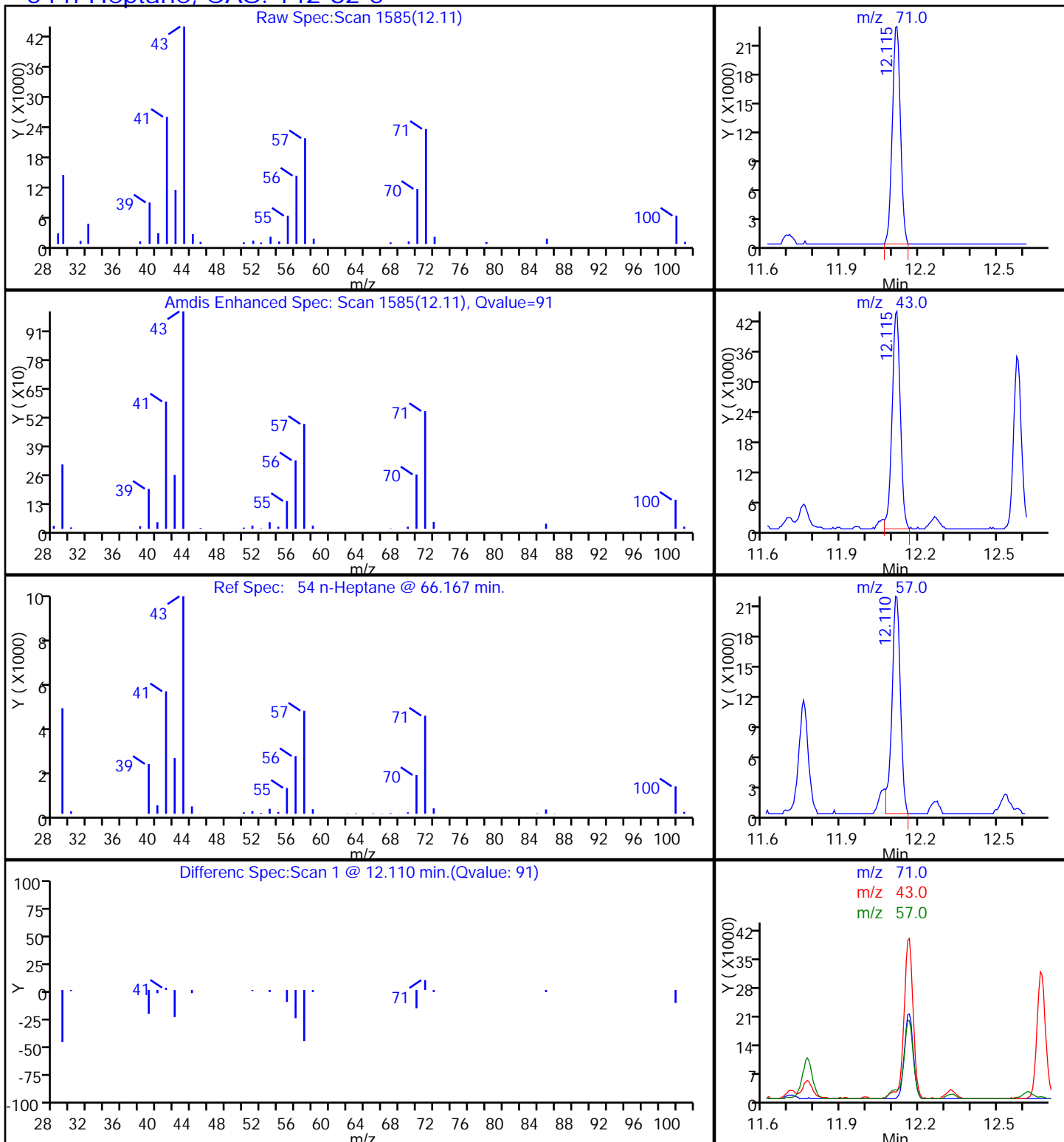
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

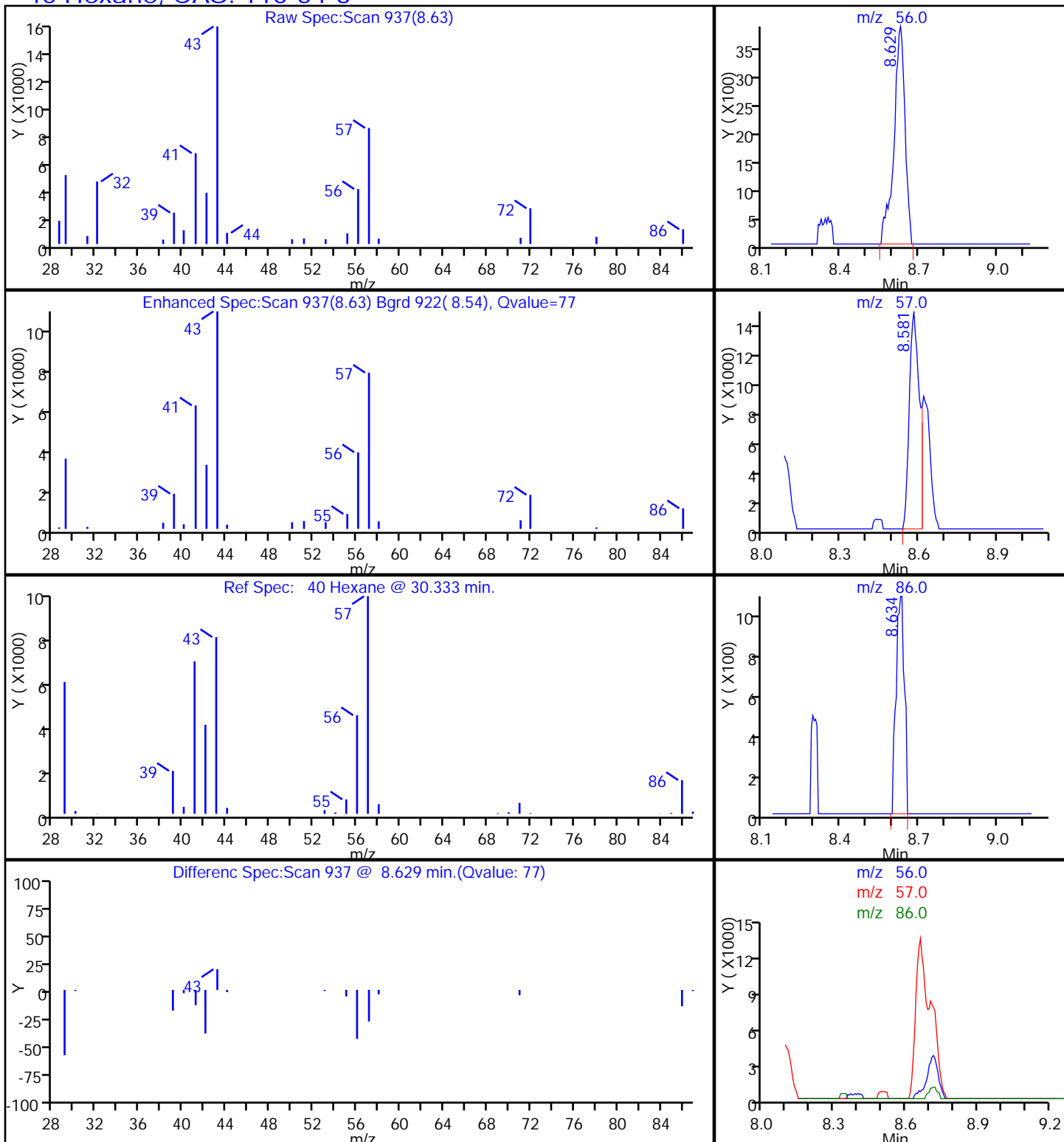
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

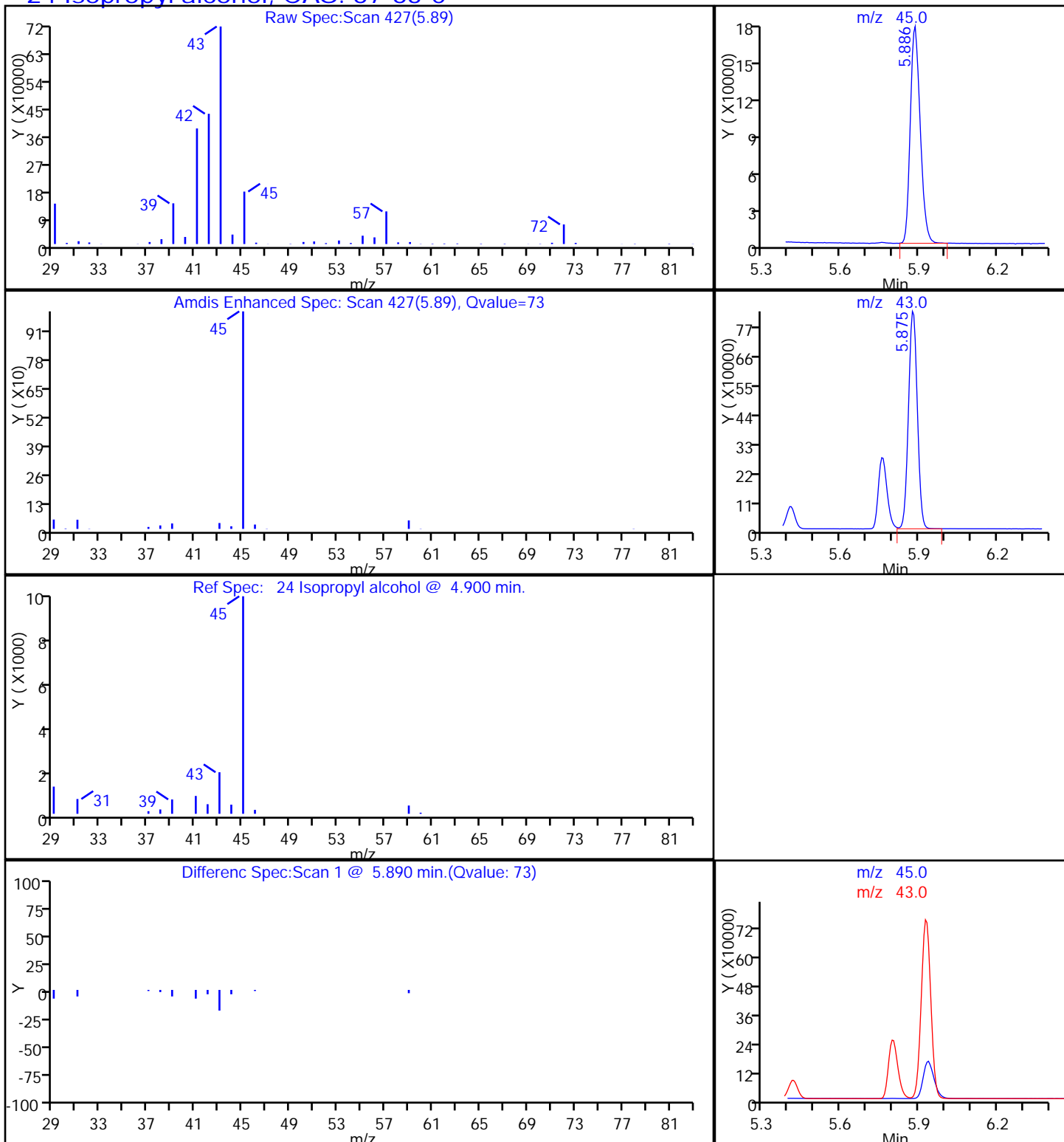
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

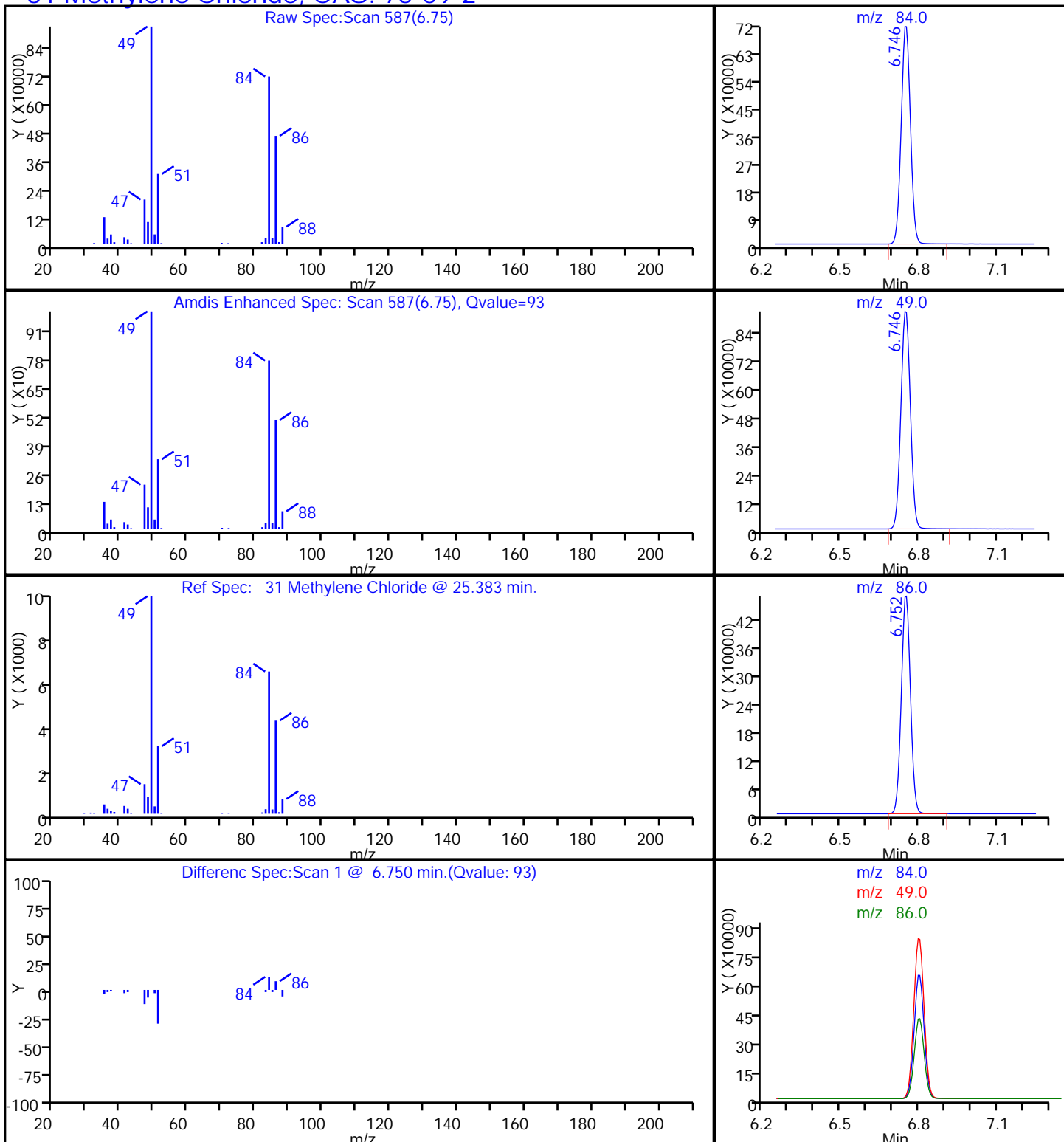
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

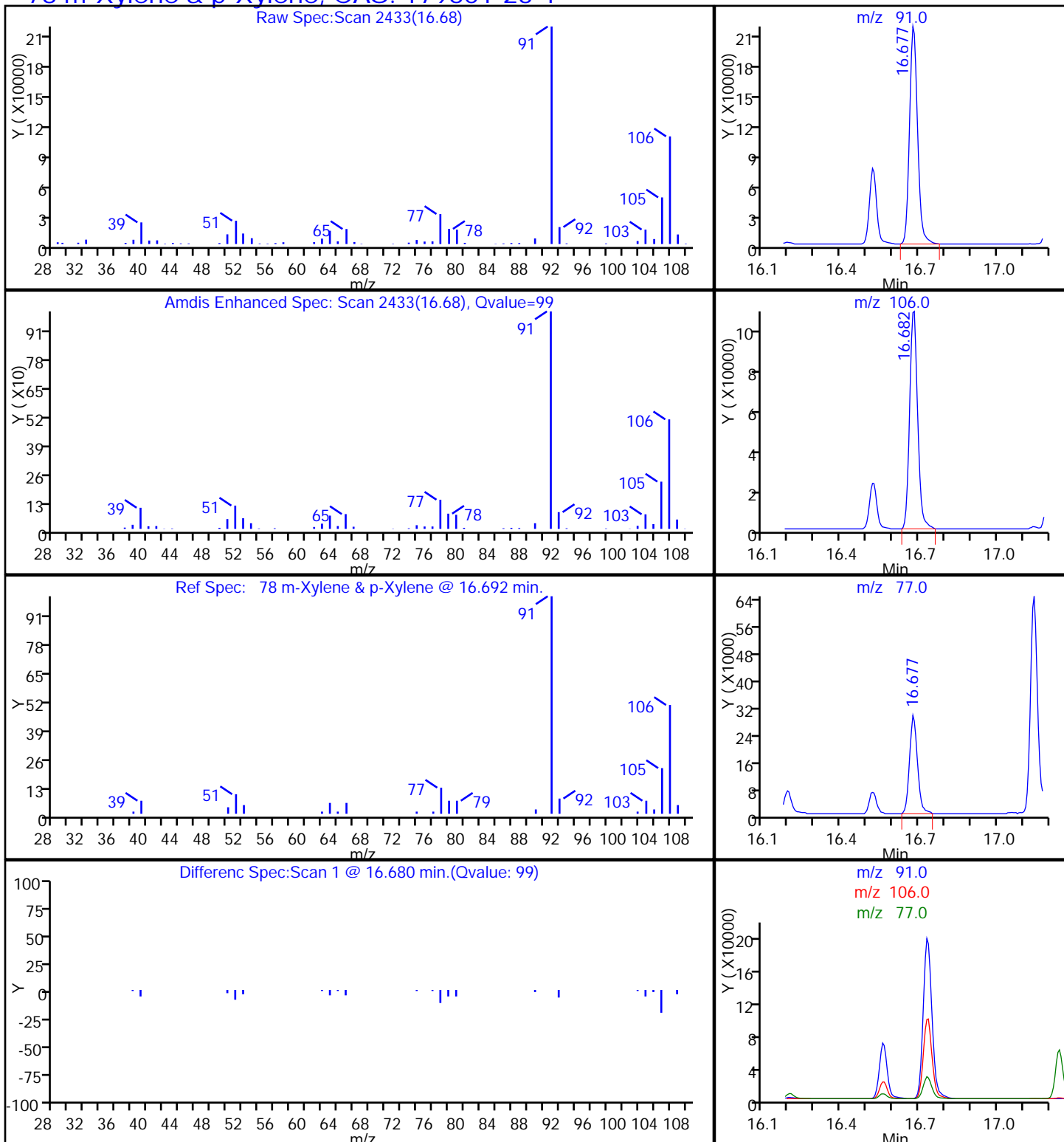
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

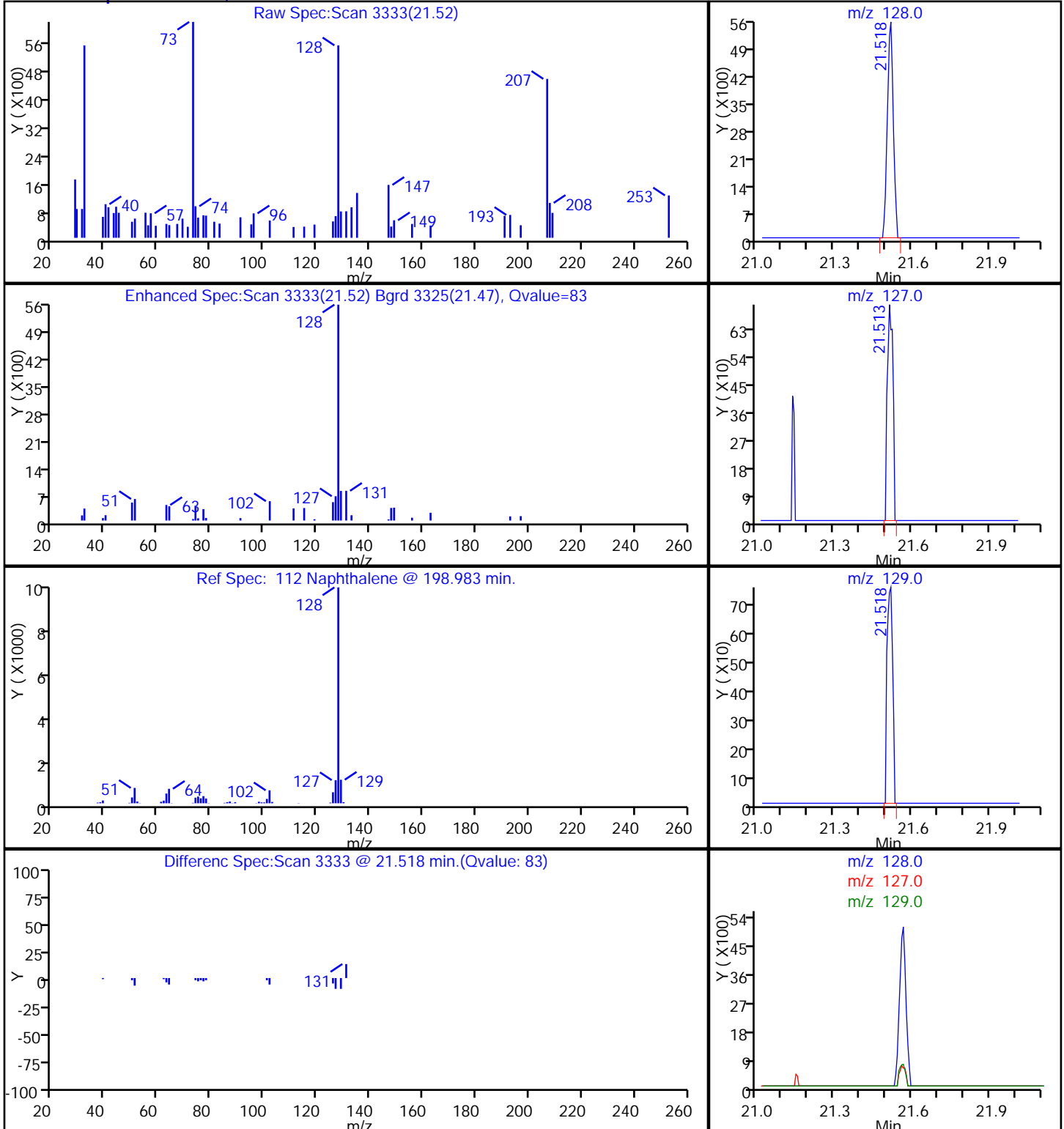
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

112 Naphthalene, CAS: 91-20-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

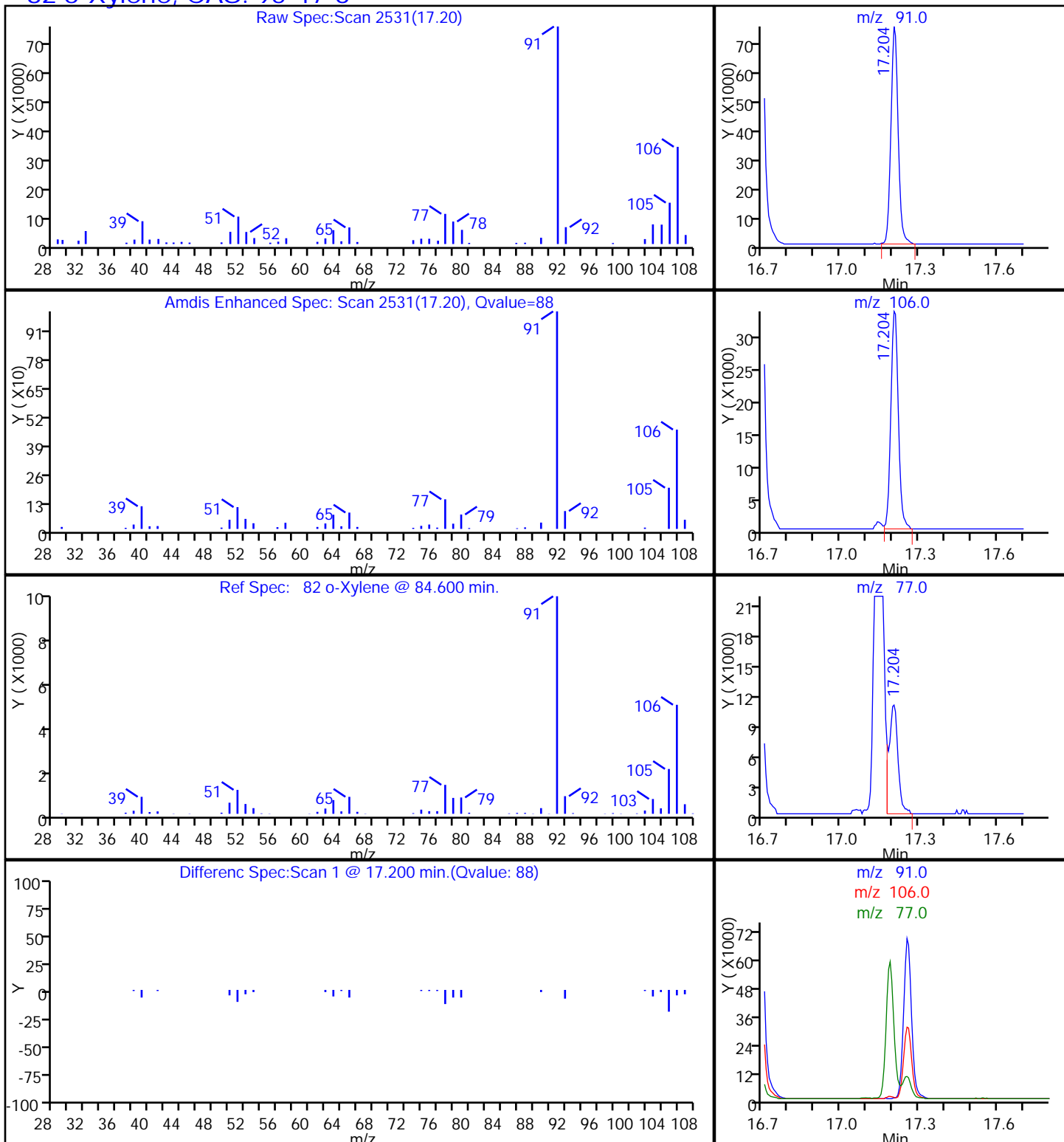
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

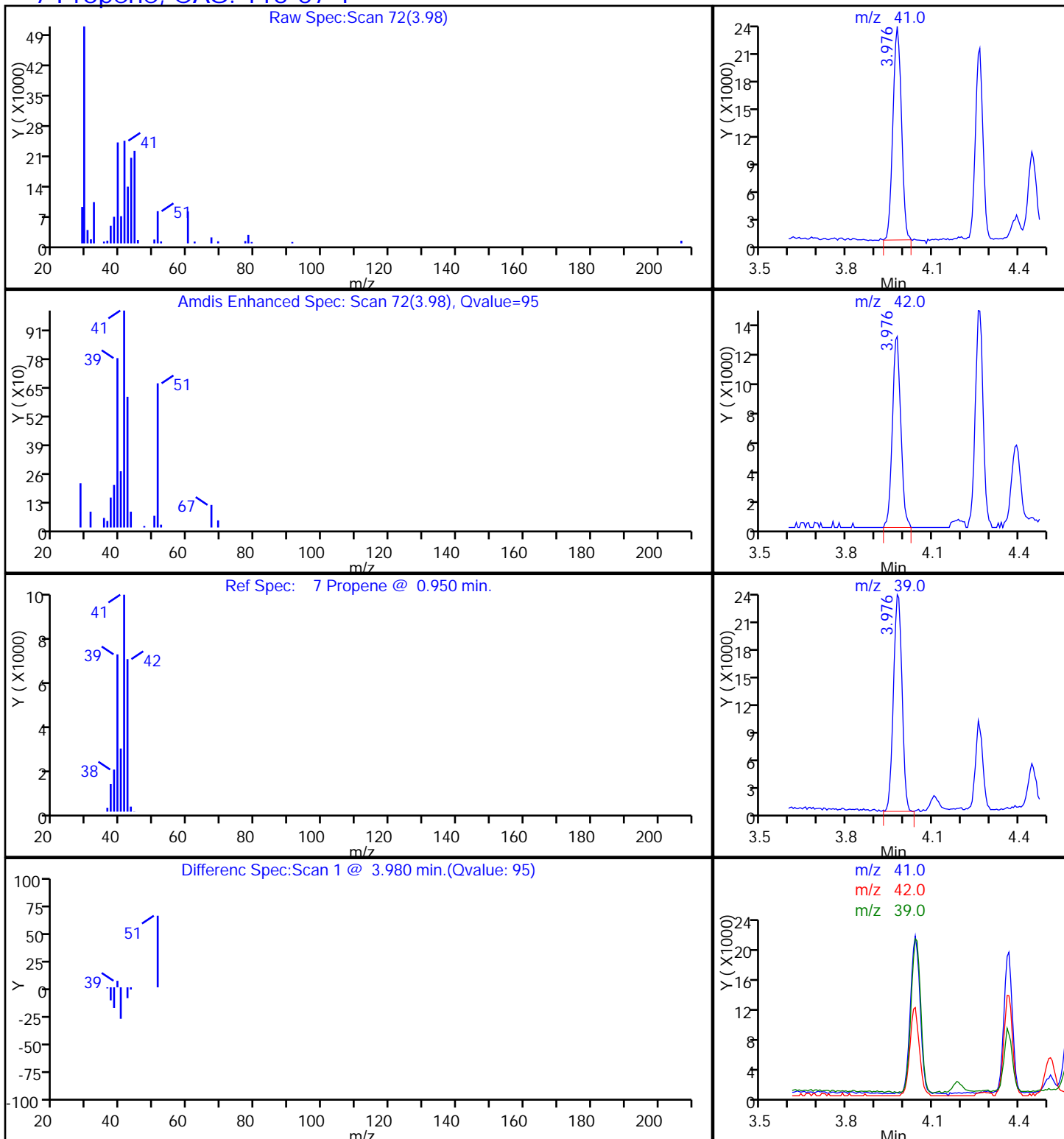
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

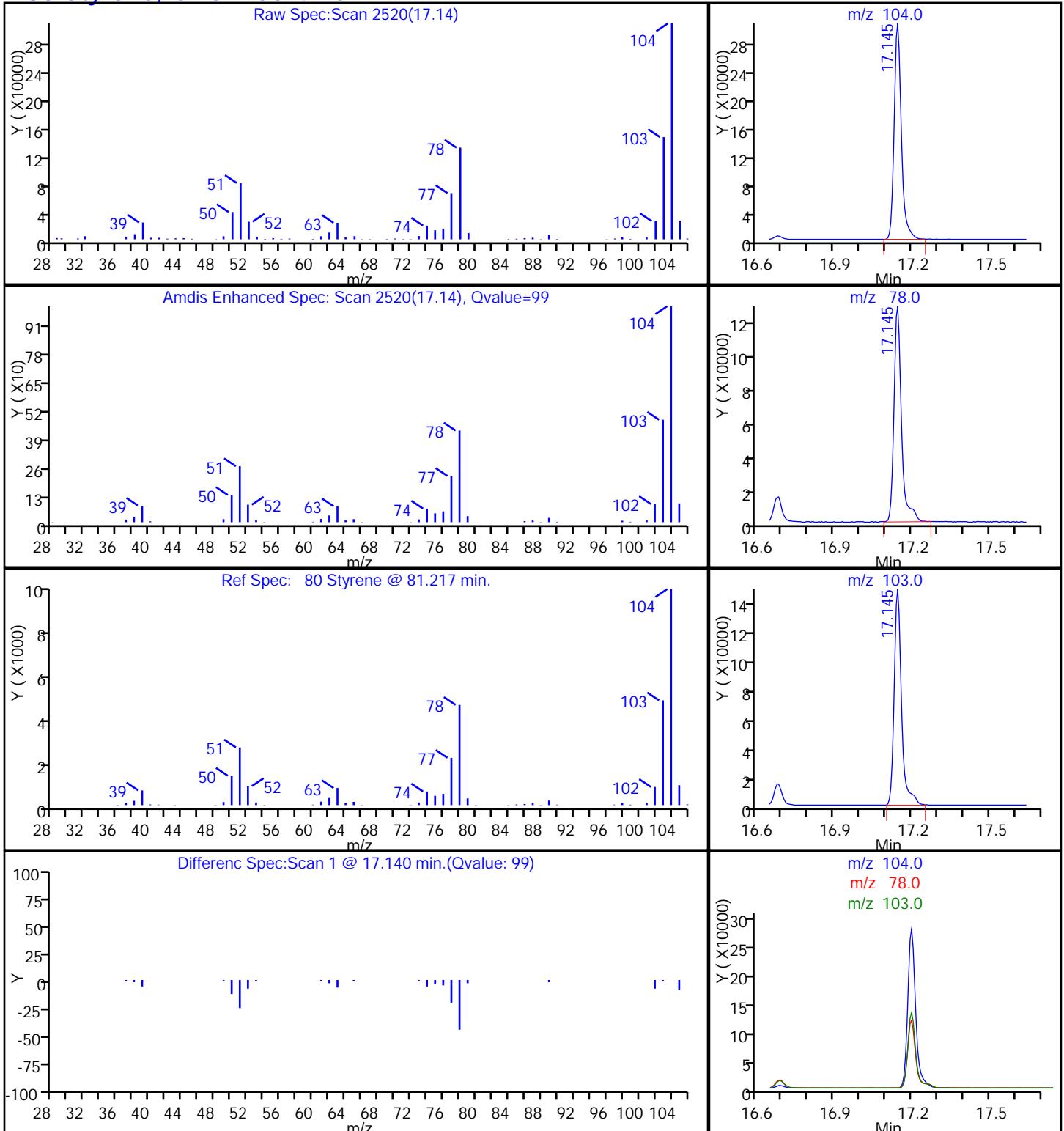
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

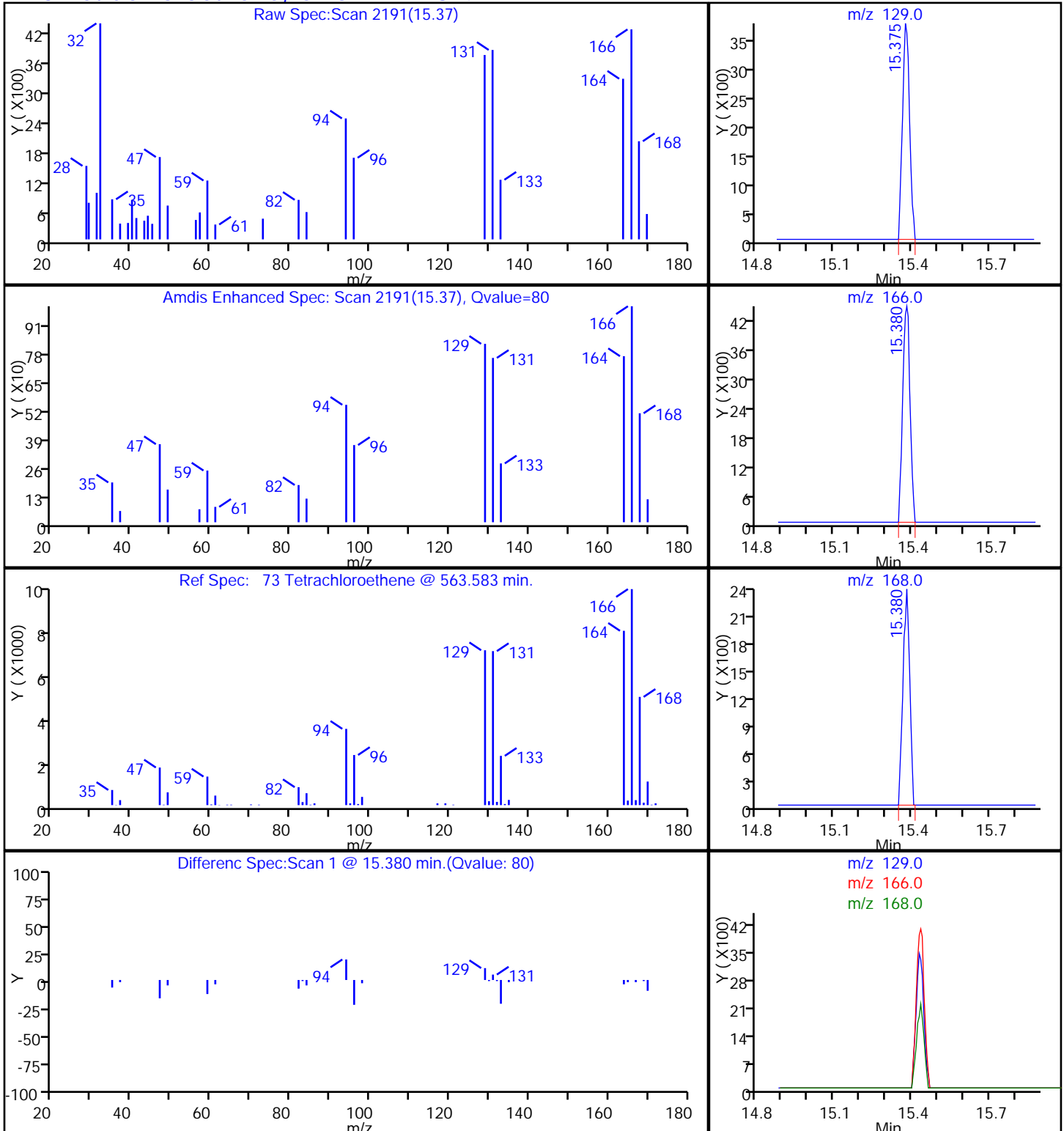
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

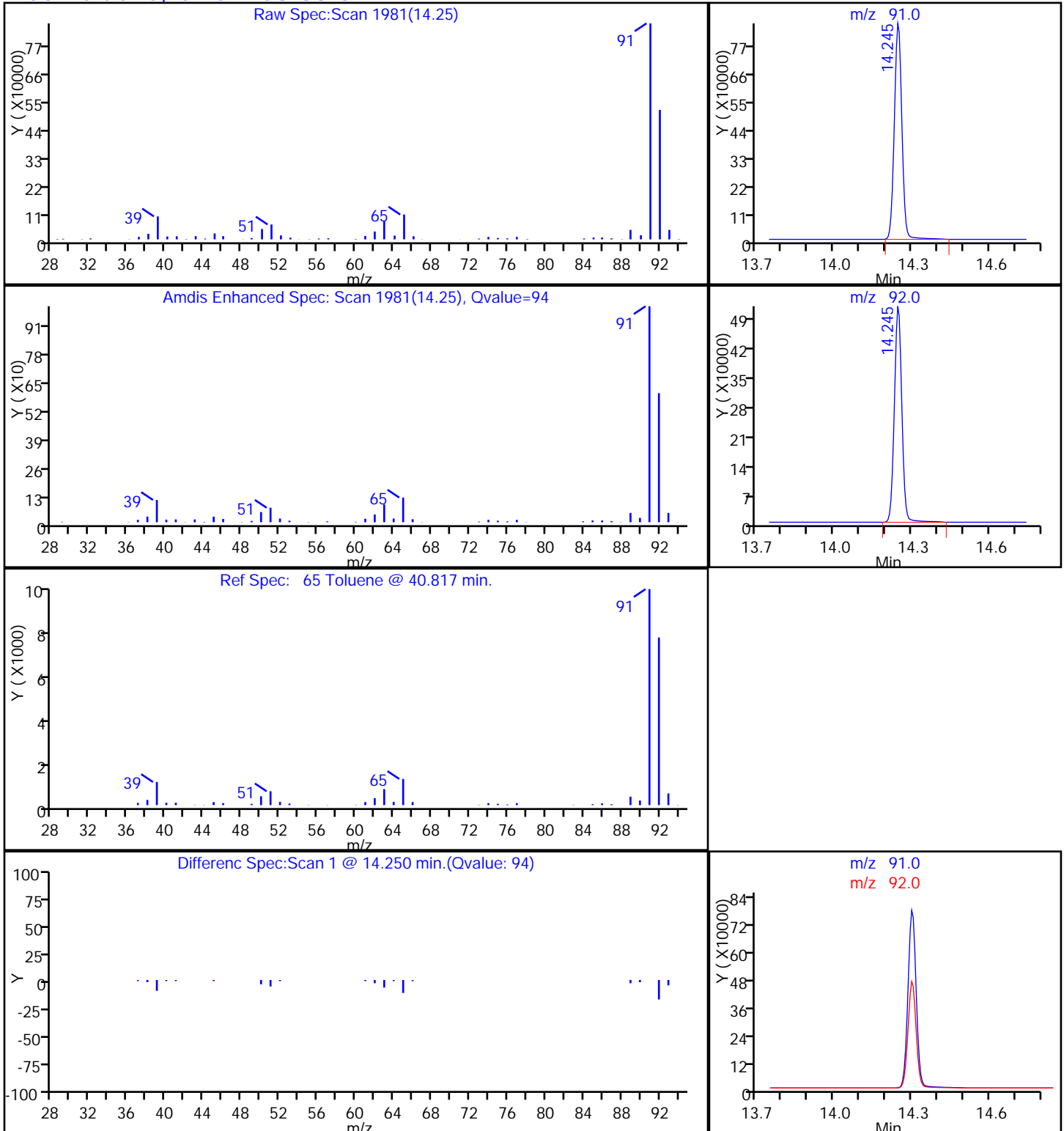
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

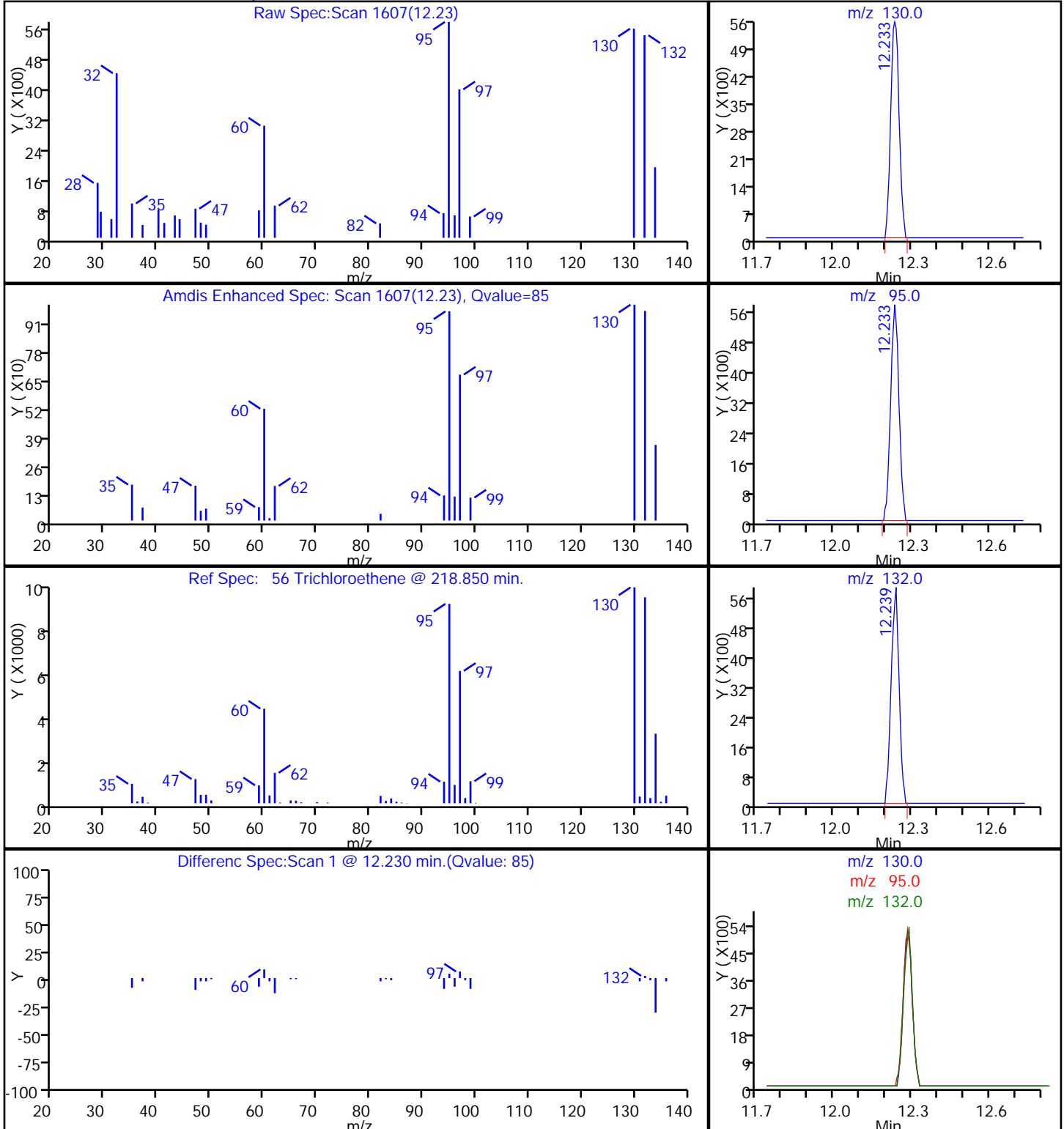
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

56 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P101.D

Injection Date: 21-Mar-2014 15:32:30

Instrument ID: MJ

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

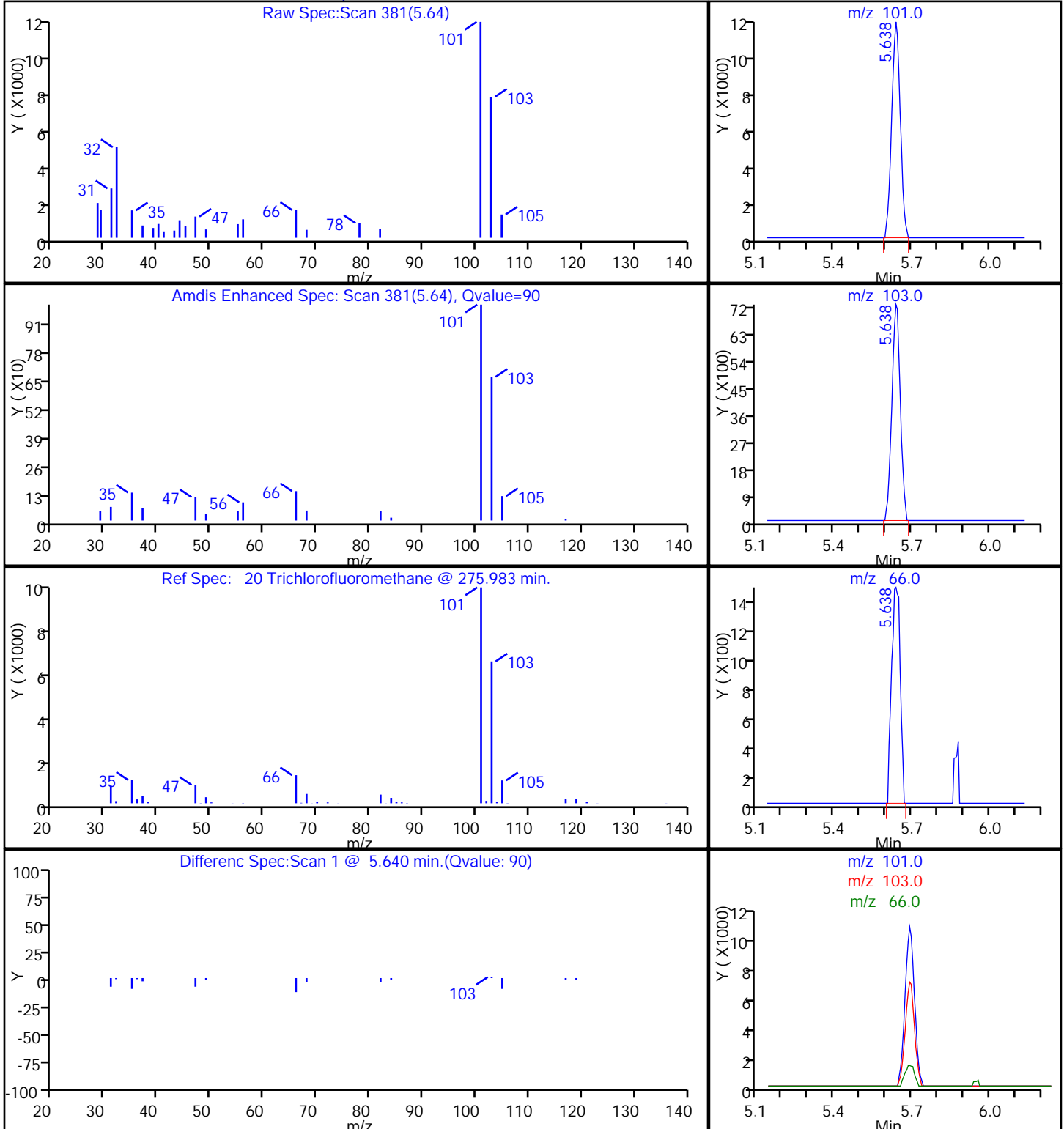
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 DL Lab Sample ID: 140-1063-18 DL
 Matrix: Air Lab File ID: EC24P105.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 20 (mL) Date Analyzed: 03/24/2014 14:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	760		20	20
75-09-2	Methylene Chloride	84.93	33		5.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: PCV-IAPC-B5 DL Lab Sample ID: 140-1063-18 DL
 Matrix: Air Lab File ID: EC24P105.D
 Analysis Method: TO-15 Date Collected: 03/12/2014 15:59
 Sample wt/vol: 20 (mL) Date Analyzed: 03/24/2014 14:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	1400		38	38
75-09-2	Methylene Chloride	84.93	120		17	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D
 Lims ID: 140-1063-A-18 Lab Sample ID: 140-1063-18
 Client ID: PCV-IAPC-B5
 Sample Type: Client
 Inject. Date: 24-Mar-2014 14:38:30 ALS Bottle#: 5 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-18
 Misc. Info.: E032414,TO155,,140-0000541-008
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Mar-2014 00:30:35 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 25-Mar-2014 07:23:46

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.334	8.340	-0.006	68	291453	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1374784	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	88	1172758	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	889142	3.46	
7 Propene	41	3.319	3.314	0.005	65	4669	0.0637	
17 Ethanol	31	4.322	4.312	0.010	97	880349	30.2	
19 2-Methylbutane	43	4.538	4.533	0.005	83	13375	0.1310	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	62	3505	0.0108	
24 Isopropyl alcohol	45	4.986	4.969	0.017	84	27101	0.2385	
31 Methylene Chloride	84	5.789	5.789	0.0	78	111559	1.34	
39 2-Butanone (MEK)	72	7.590	7.579	0.011	95	4786	0.1003	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	83	4499	0.0276	
65 Toluene	91	13.398	13.398	0.0	93	71038	0.2261	
76 Ethylbenzene	91	15.878	15.722	0.156	83	16235	0.0403	
78 m-Xylene & p-Xylene	91	15.878	15.884	-0.006	95	16233	0.0513	
80 Styrene	104	16.347	16.347	0.0	90	17100	0.0780	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D

Injection Date: 24-Mar-2014 14:38:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Worklist Smp#: 8

Client ID: PCV-IAPC-B5

Purge Vol: 500.000 mL

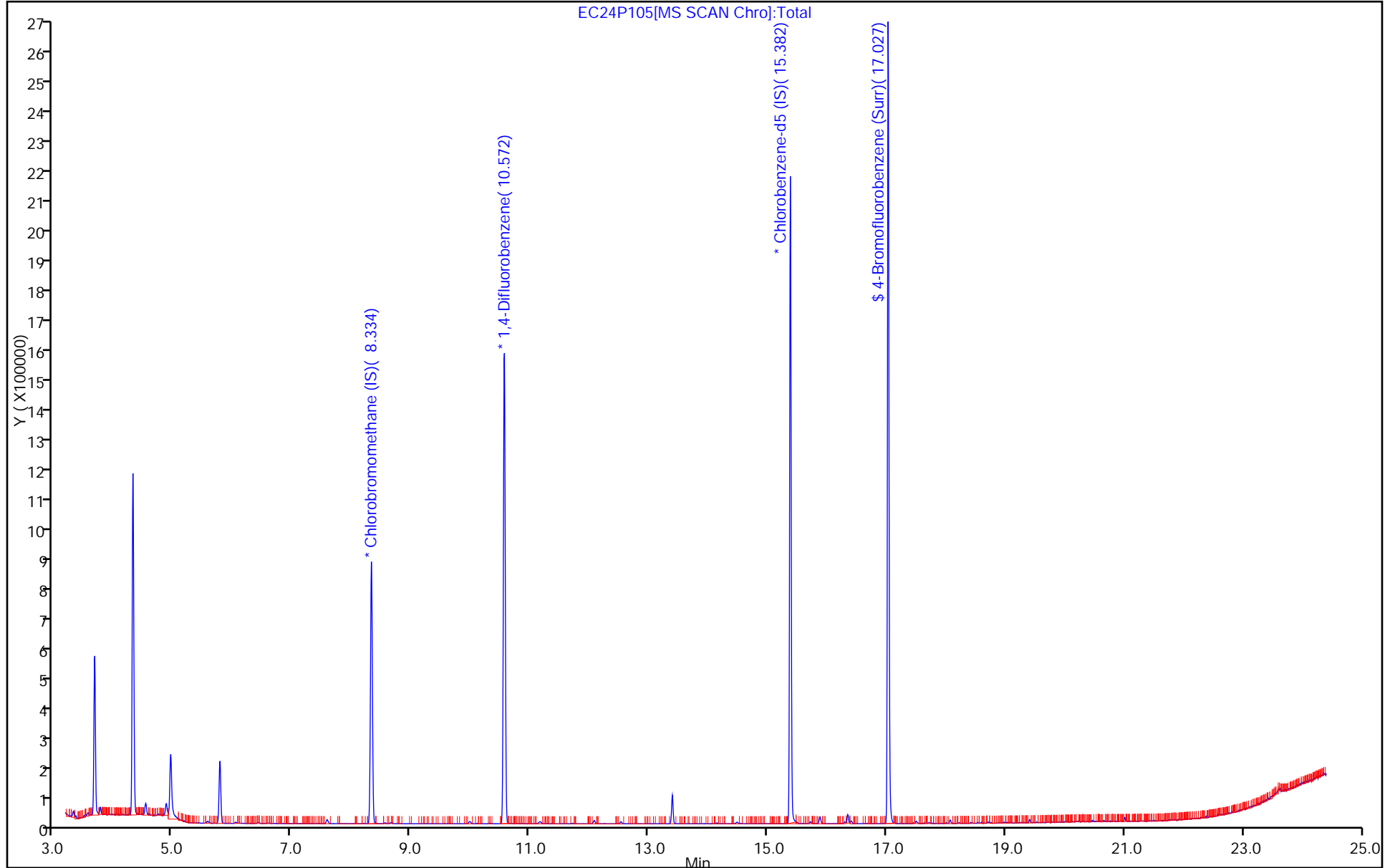
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D

Injection Date: 24-Mar-2014 14:38:30

Instrument ID: ME

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 5 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

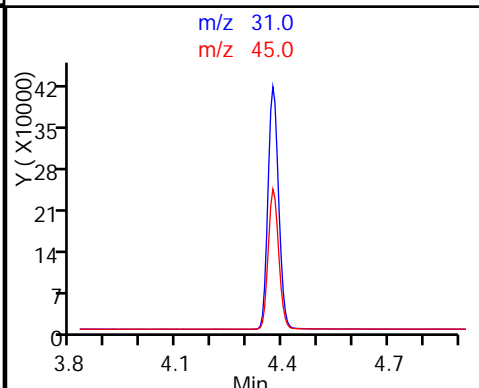
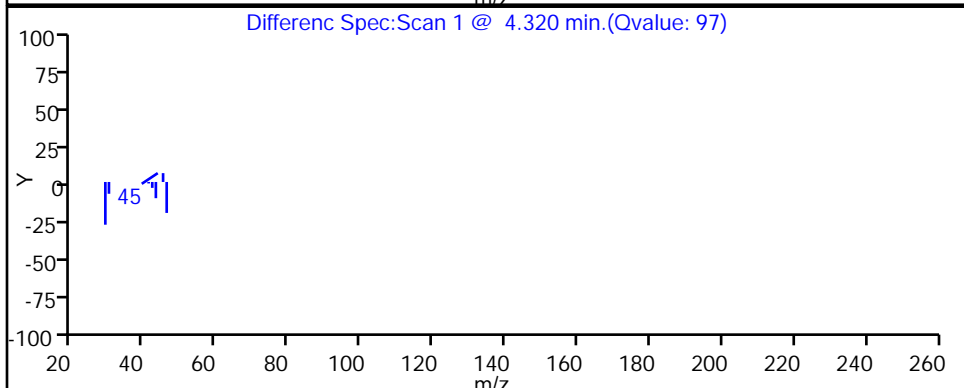
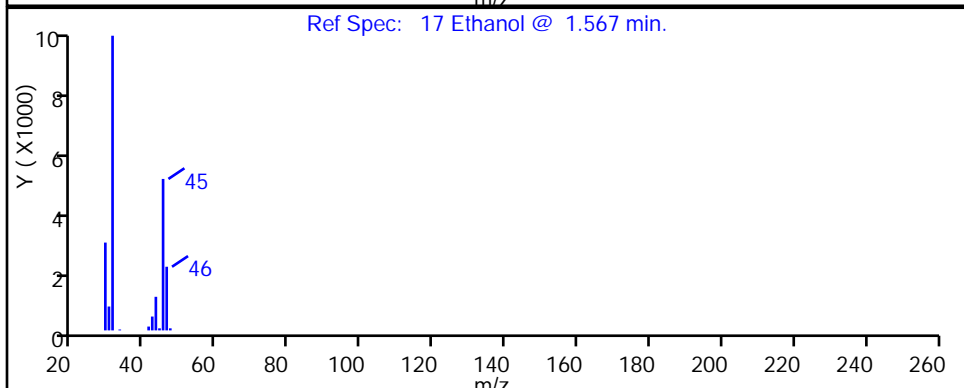
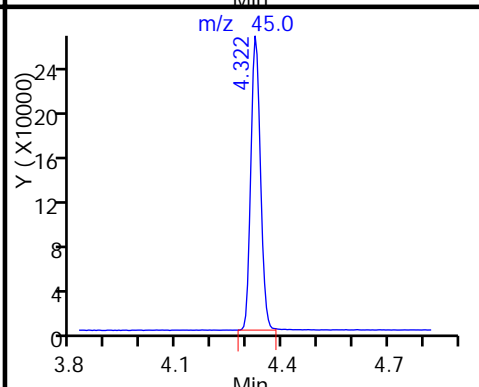
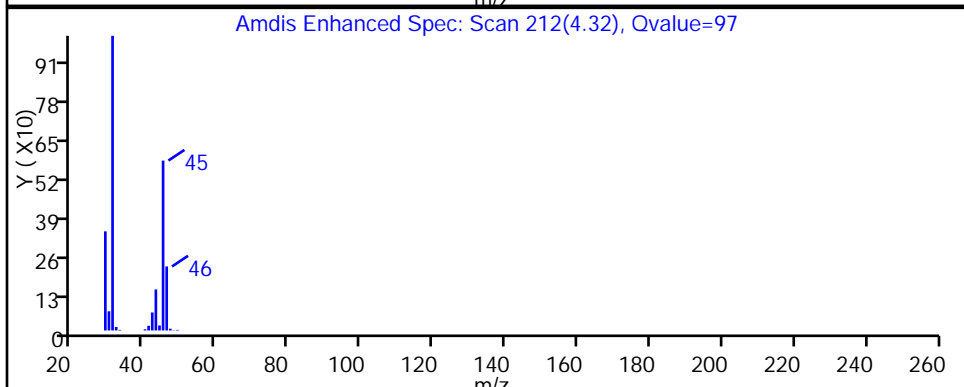
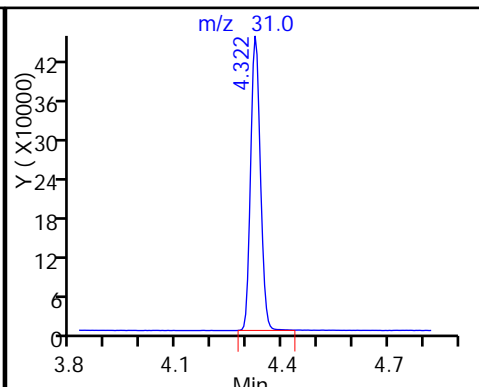
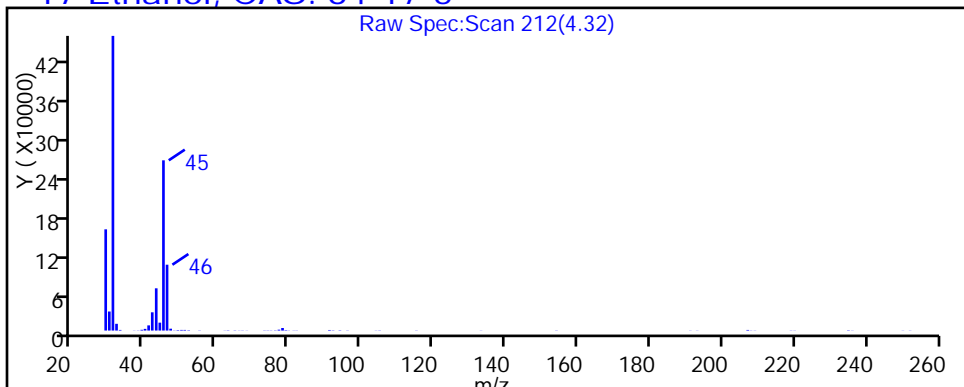
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EC24P105.D

Injection Date: 24-Mar-2014 14:38:30

Instrument ID: ME

Lims ID: 140-1063-A-18

Lab Sample ID: 140-1063-18

Client ID: PCV-IAPC-B5

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

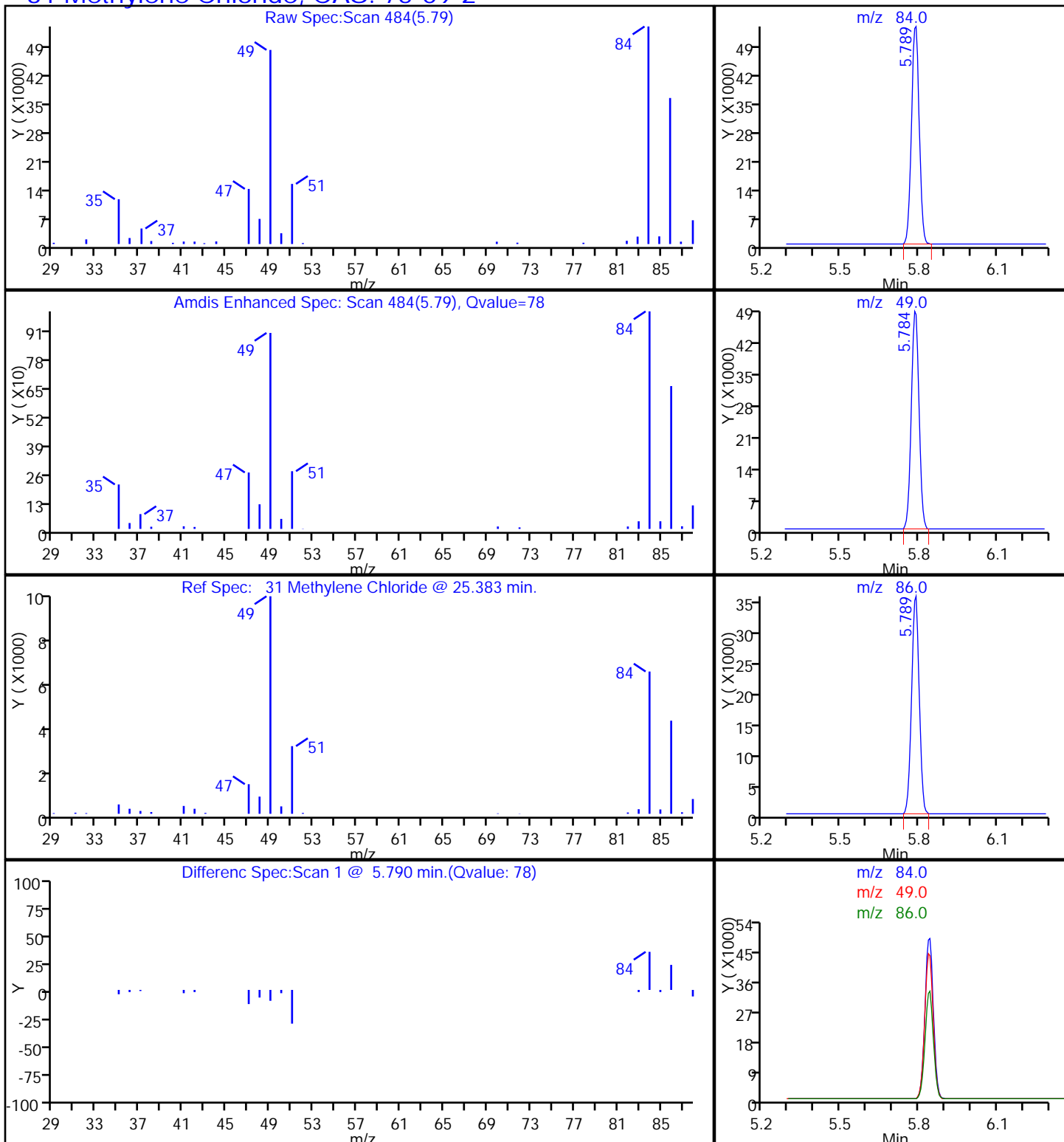
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19
 Matrix: Air Lab File ID: JC19P104.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.16	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.46	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.28	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	2.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.20		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19
 Matrix: Air Lab File ID: JC19P104.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.47	J	0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	7.4		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.048	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.095	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.71	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.28	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.22		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.088	J	0.20	0.061
115-07-1	Propene	42.08	0.41	J cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.093	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.36		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19
 Matrix: Air Lab File ID: JC19P104.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:25
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19
 Matrix: Air Lab File ID: JC19P104.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.76	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.4	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	0.83	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	5.5	J	12	3.3
71-43-2	Benzene	78.11	0.64		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19
 Matrix: Air Lab File ID: JC19P104.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	0.97	J	1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	14		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.20	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.34	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.7	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.98	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.97		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.38	J	0.87	0.26
115-07-1	Propene	42.08	0.70	J cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.63	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-1 Lab Sample ID: 140-1063-19
 Matrix: Air Lab File ID: JC19P104.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:25
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 19:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D
 Lims ID: 140-1063-A-19 Lab Sample ID: 140-1063-19
 Client ID: AMB-1
 Sample Type: Client
 Inject. Date: 19-Mar-2014 19:31:30 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-19
 Misc. Info.: J031914,TO15,,140-0000532-010
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:41:41 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:41:41

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.385	-0.006	90	382463	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.542	-0.006	94	1839359	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.195	16.201	-0.006	89	1520693	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.820	-0.006	91	984650	3.66	
7 Propene	41	3.978	3.973	0.005	94	19130	0.1631	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	64319	0.1698	
9 Chloromethane	52	4.231	4.231	0.0	97	8075	0.1876	
17 Ethanol	31	5.118	5.119	-0.001	94	91406	2.98	
19 2-Methylbutane	43	5.409	5.409	0.0	89	18369	0.1131	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	88	26150	0.0786	
23 Acetone	58	5.775	5.770	0.005	91	50650	0.9316	
24 Isopropyl alcohol	45	5.861	5.850	0.011	79	40534	0.2823	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.576	6.582	-0.006	62	6293	0.0273	
31 Methylene Chloride	84	6.754	6.754	0.0	85	11523	0.1126	
39 2-Butanone (MEK)	72	8.599	8.589	0.010	97	6651	0.1837	
40 Hexane	56	8.631	8.637	-0.006	60	3914	0.0381	
48 Benzene	78	11.020	11.026	-0.006	90	25107	0.0796	
50 Carbon tetrachloride	117	11.041	11.047	-0.006	88	6936	0.0266	
54 n-Heptane	71	12.112	12.123	-0.011	73	2137	0.0191	
65 Toluene	91	14.253	14.253	0.0	87	40283	0.1428	
73 Tetrachloroethene	129	15.382	15.383	-0.001	75	4888	0.0372	
78 m-Xylene & p-Xylene	91	16.684	16.685	-0.001	93	22523	0.0896	
82 o-Xylene	91	17.206	17.212	-0.006	64	8973	0.0352	
93 1,2,4-Trimethylbenzene	105	18.938	18.939	-0.001	83	18345	0.0621	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Worklist Smp#: 10

Client ID: AMB-1

Purge Vol: 500.000 mL

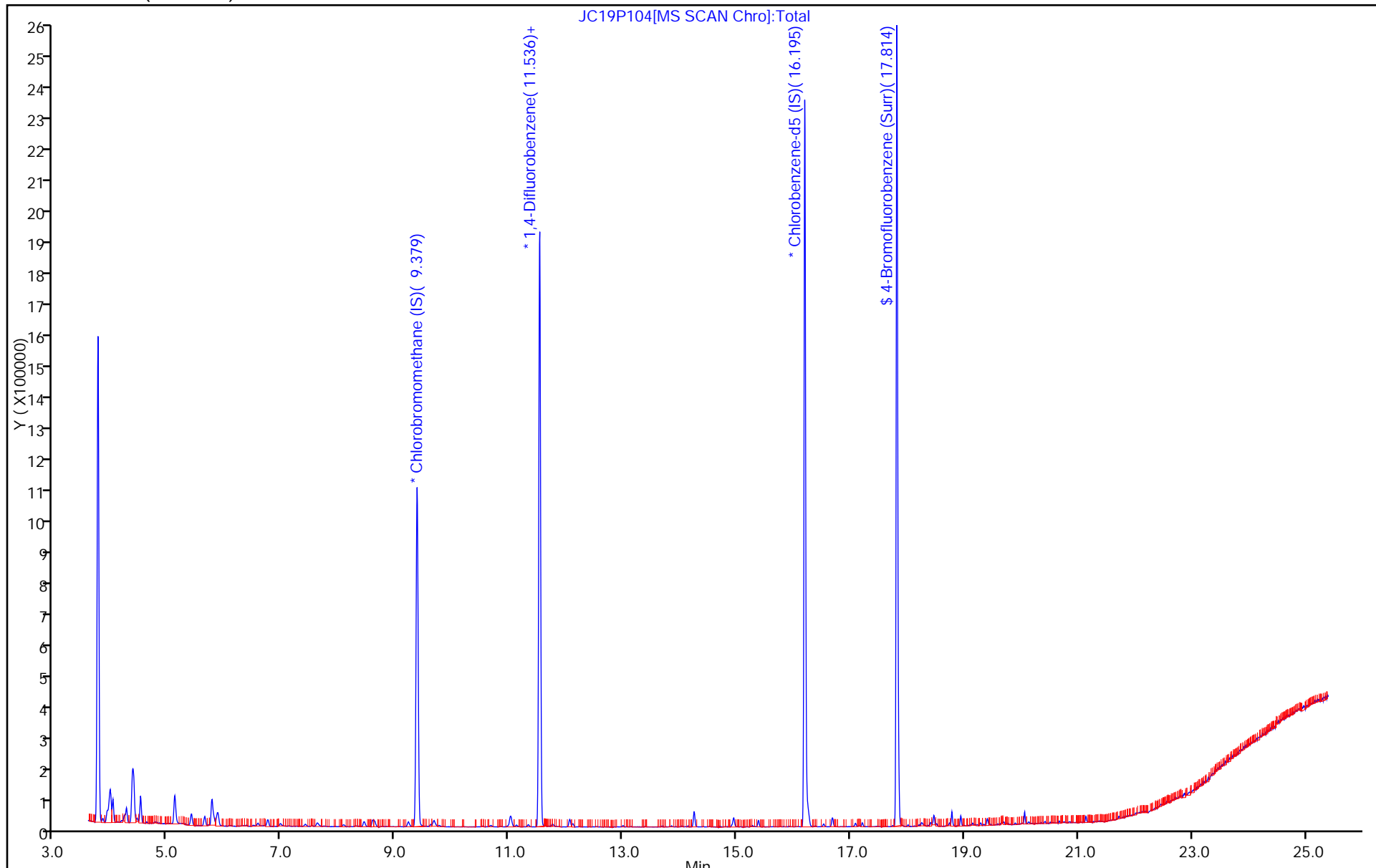
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

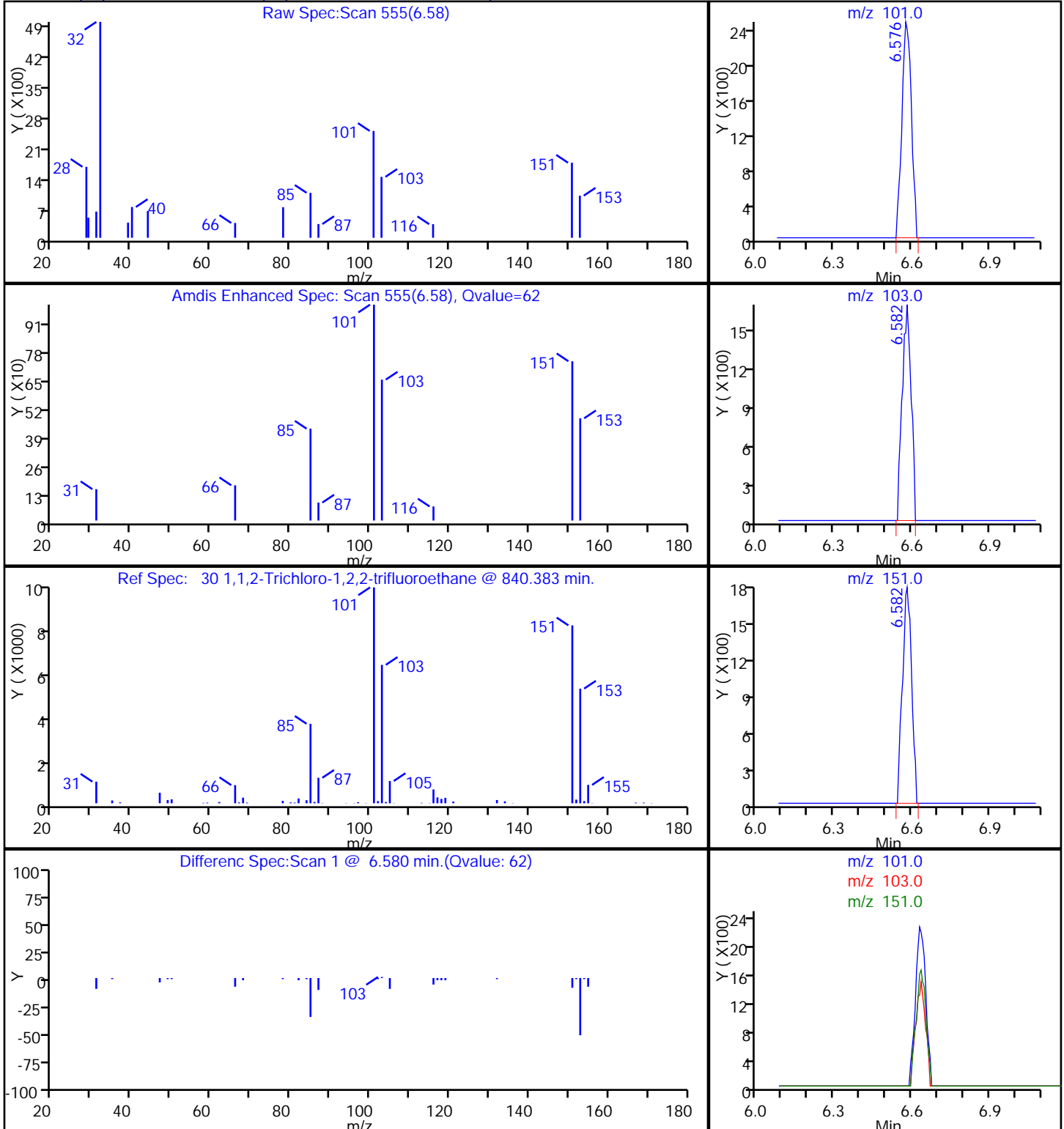
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

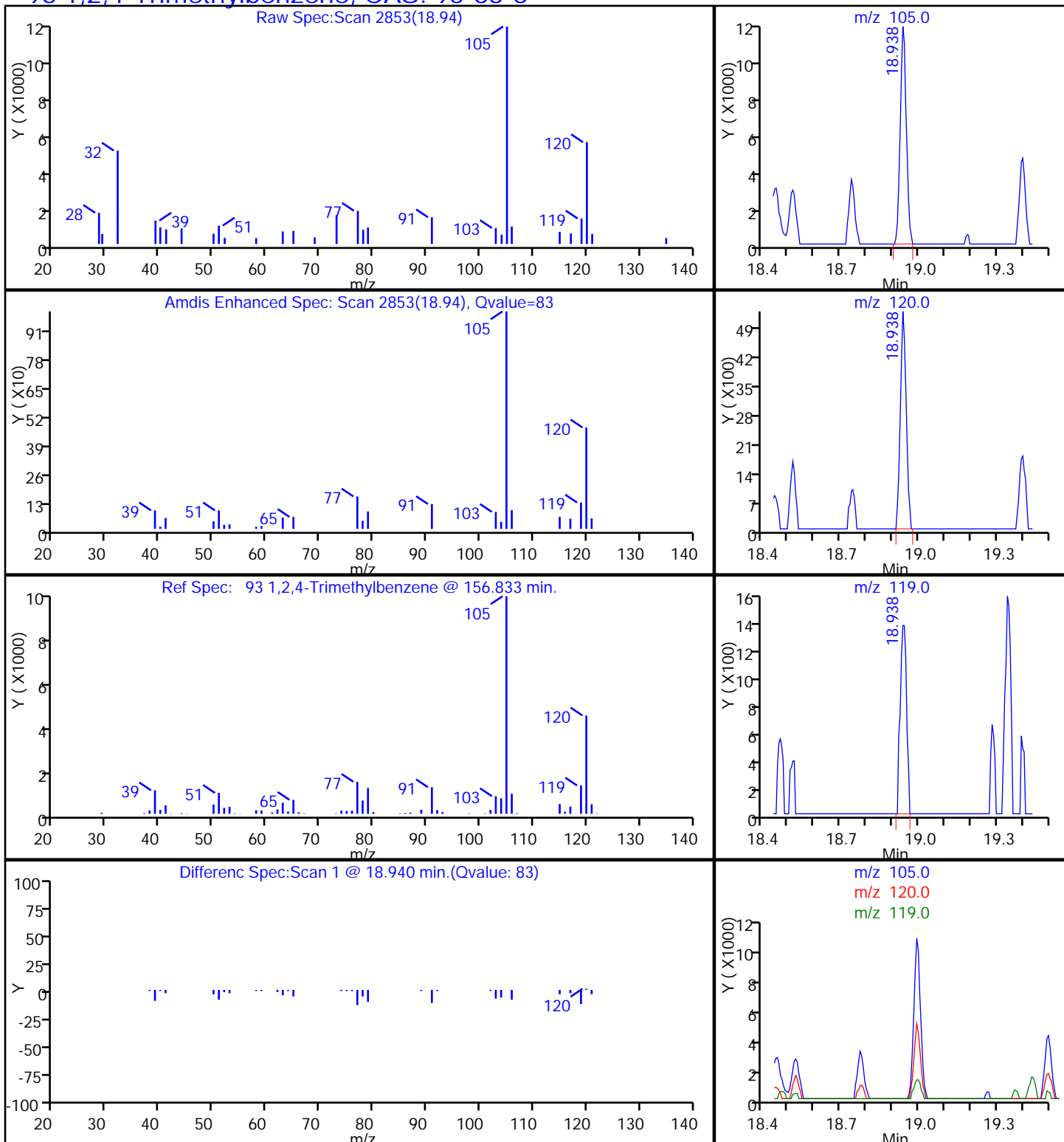
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

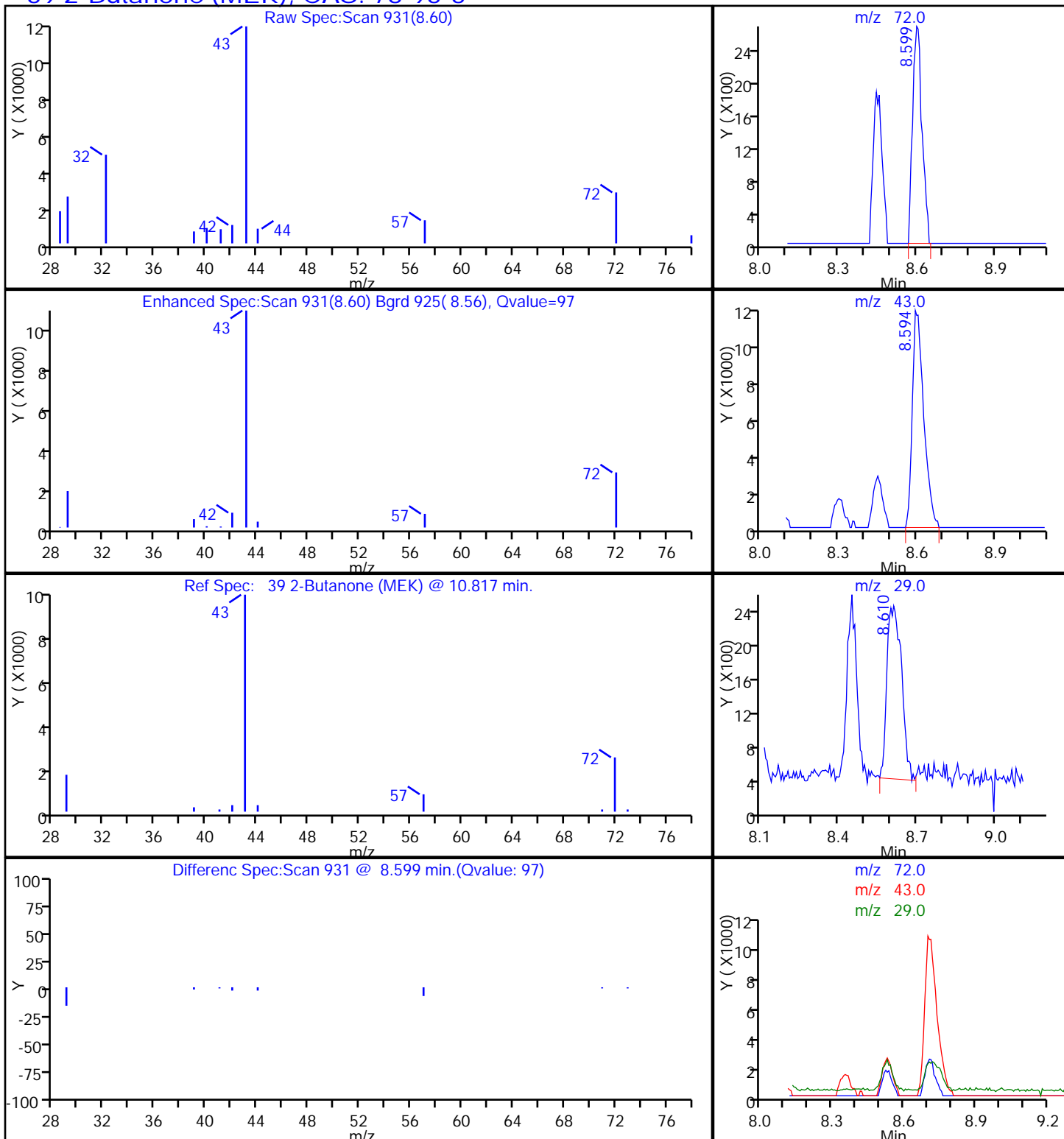
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

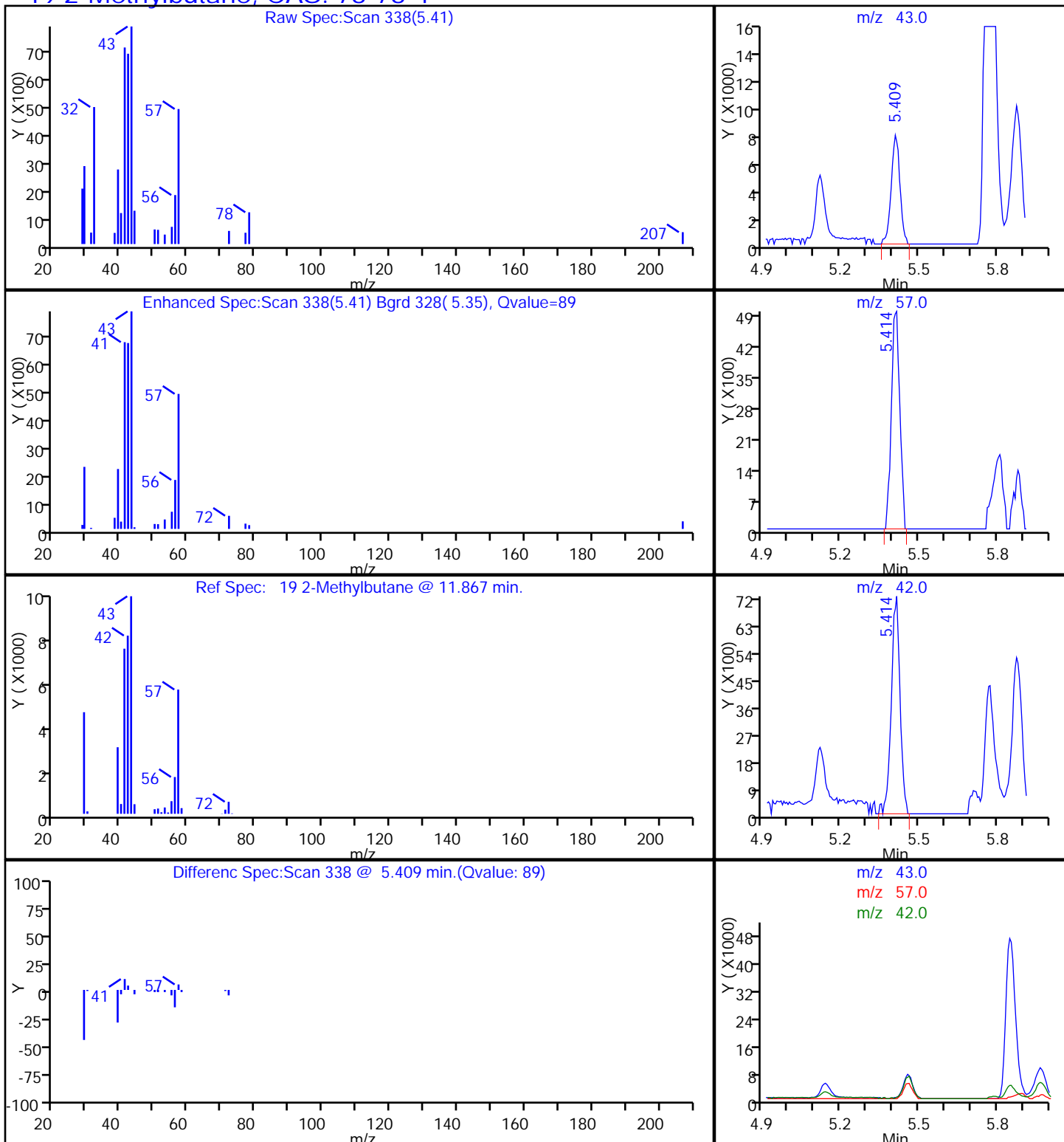
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

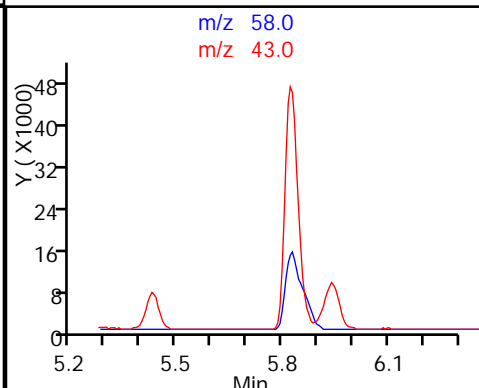
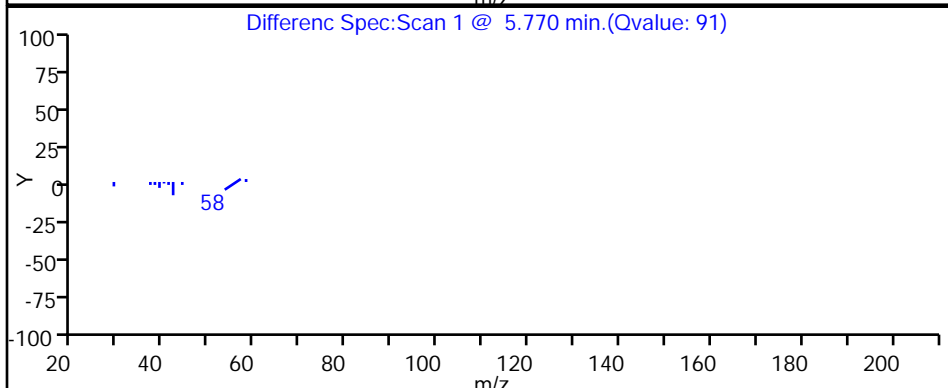
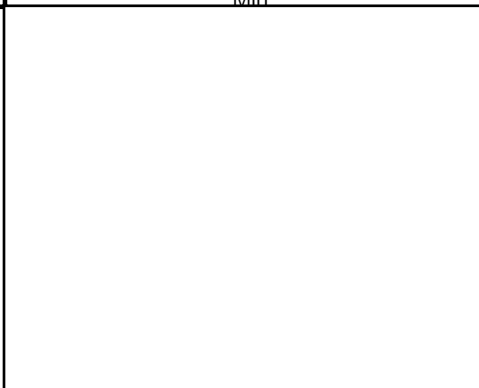
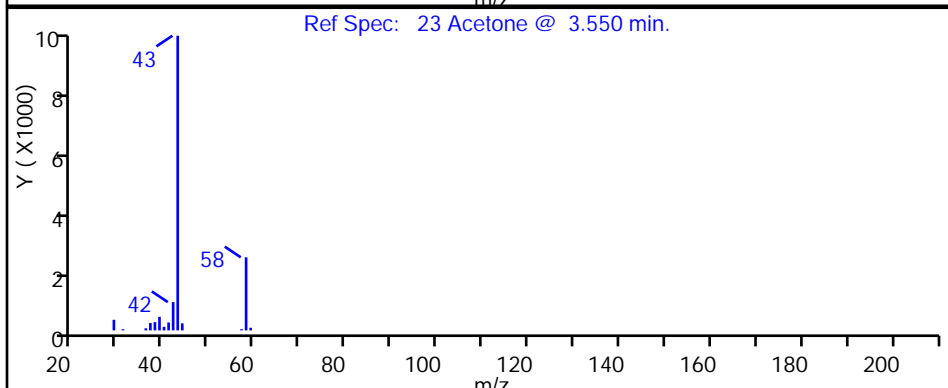
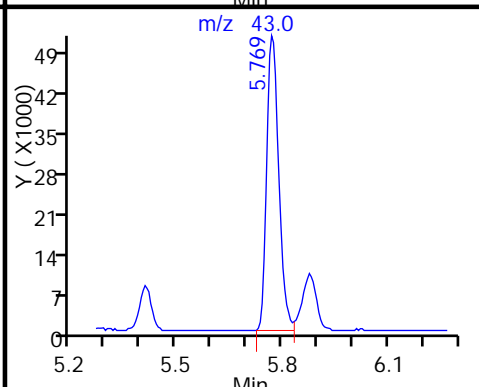
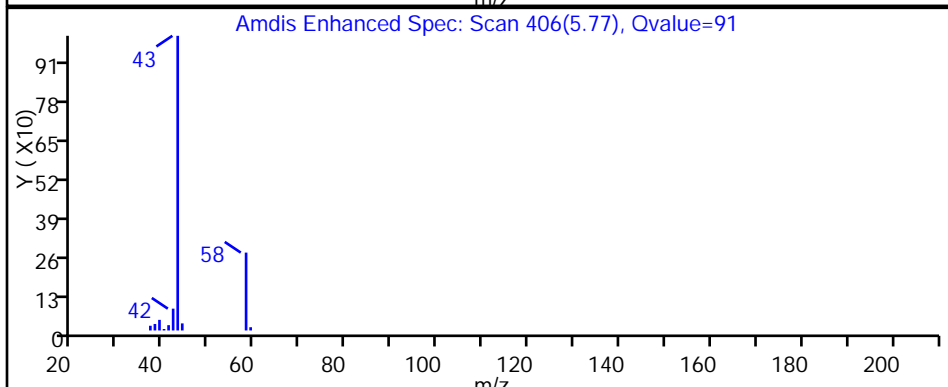
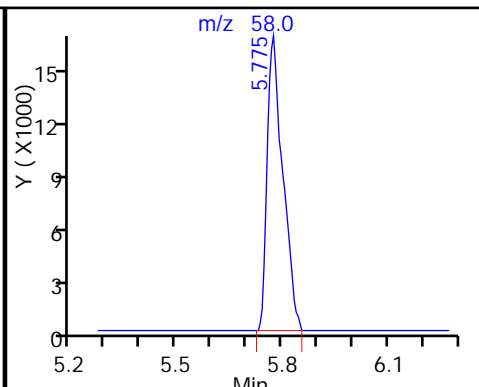
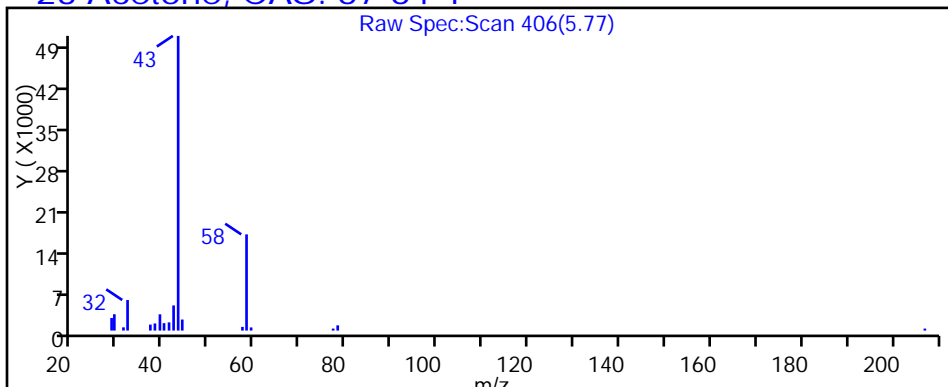
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

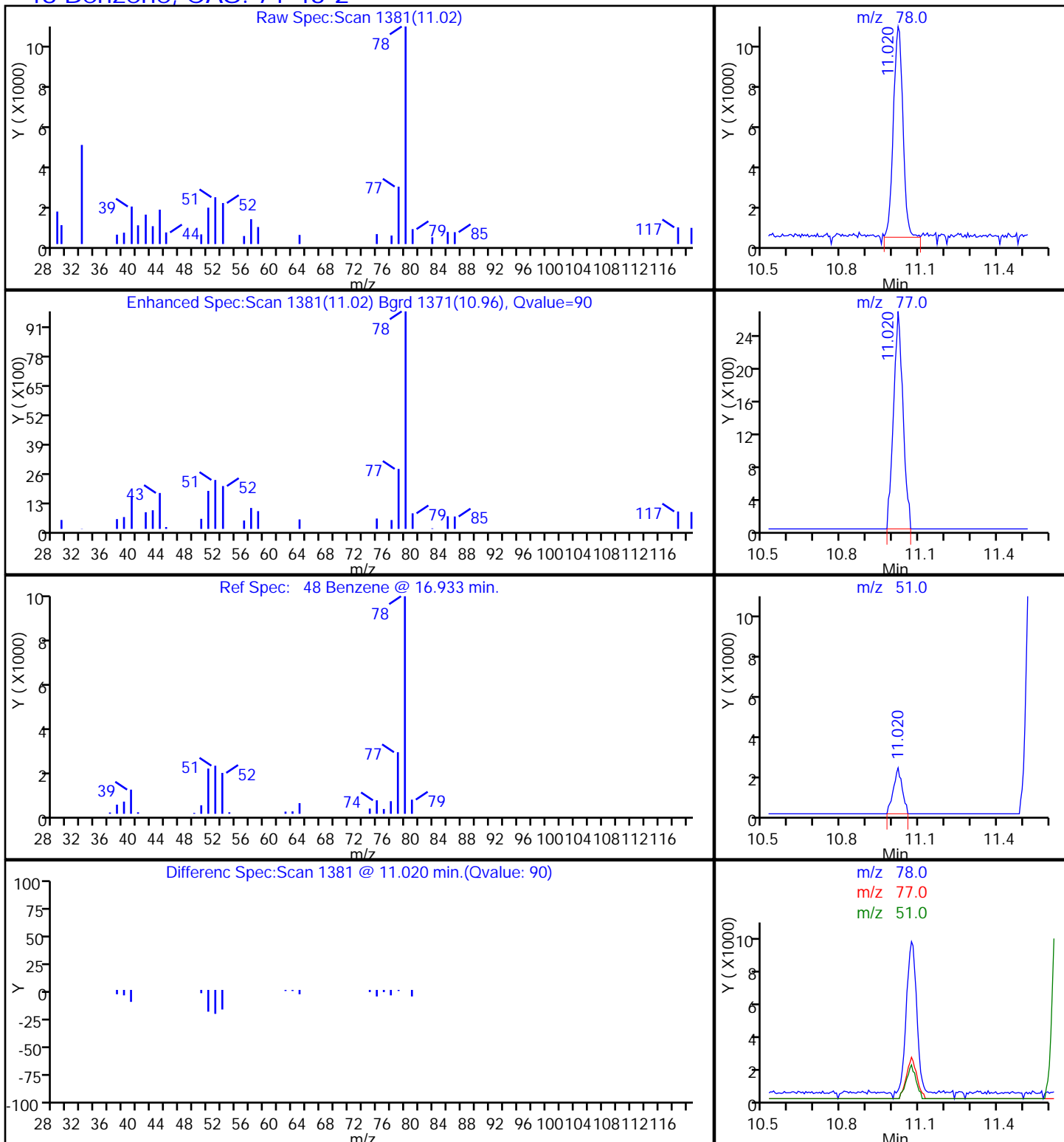
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

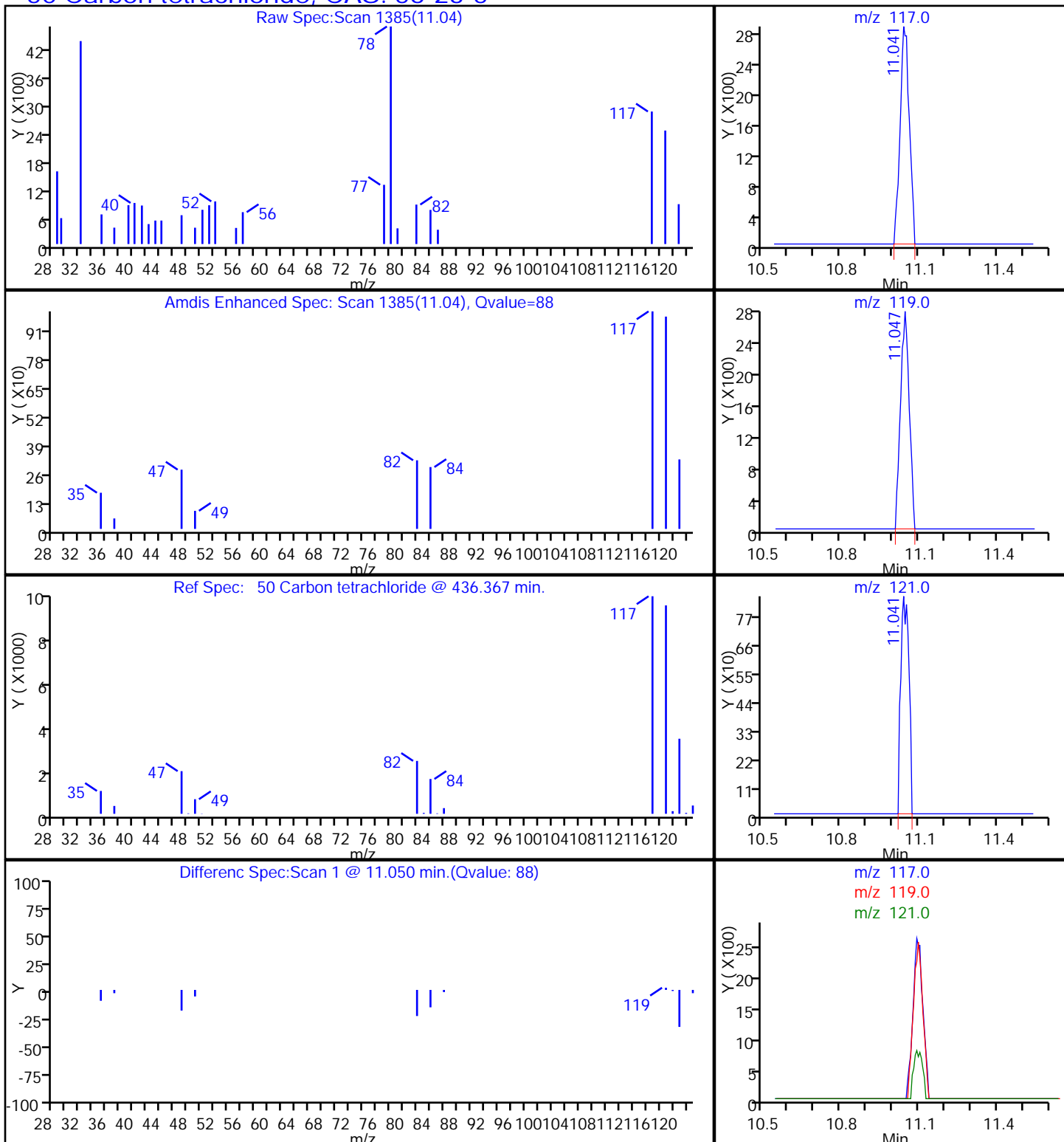
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

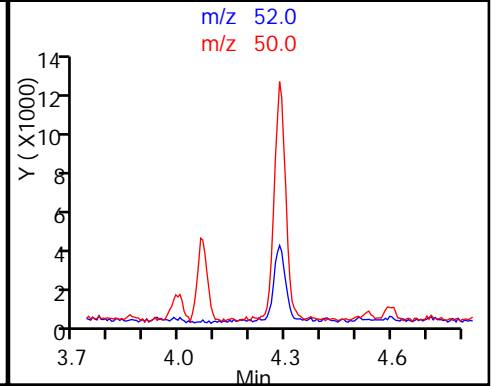
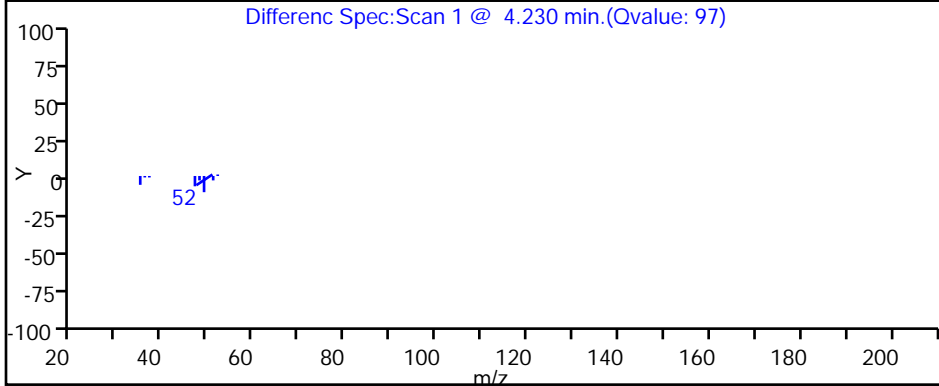
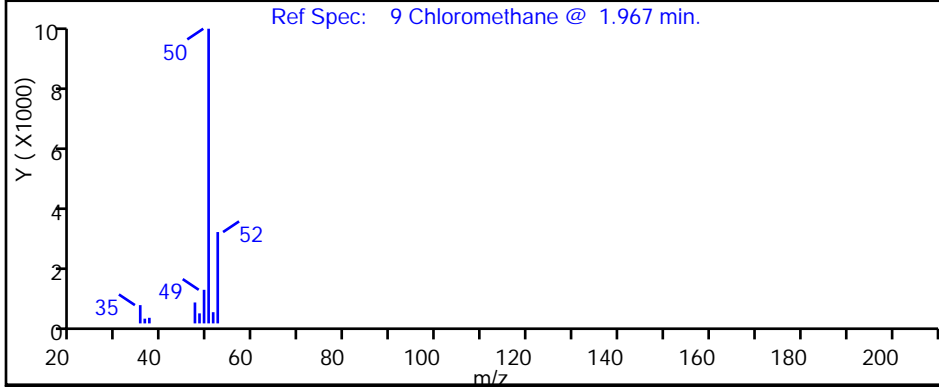
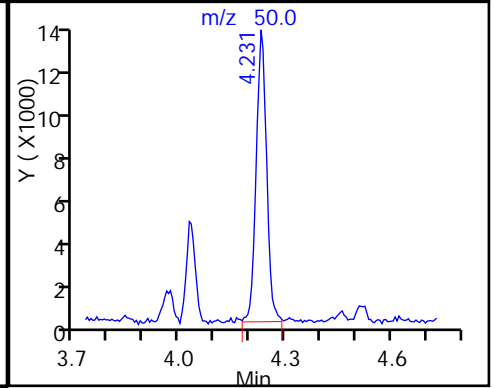
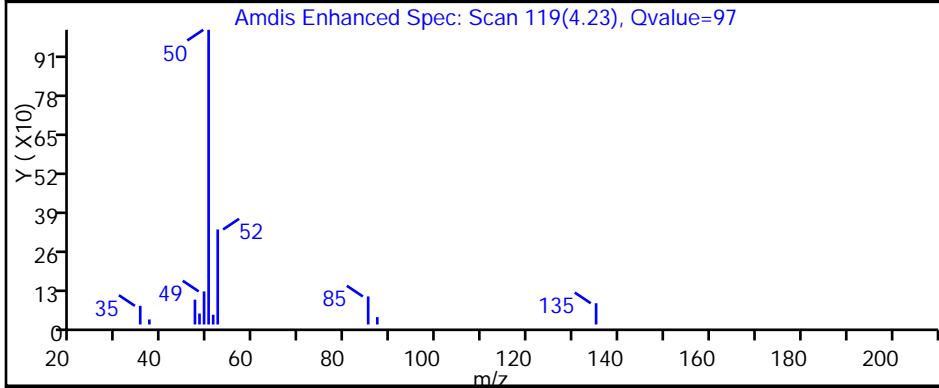
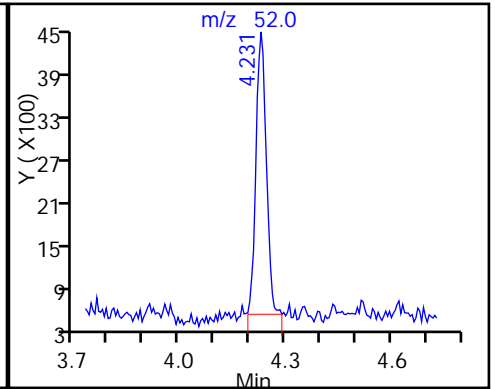
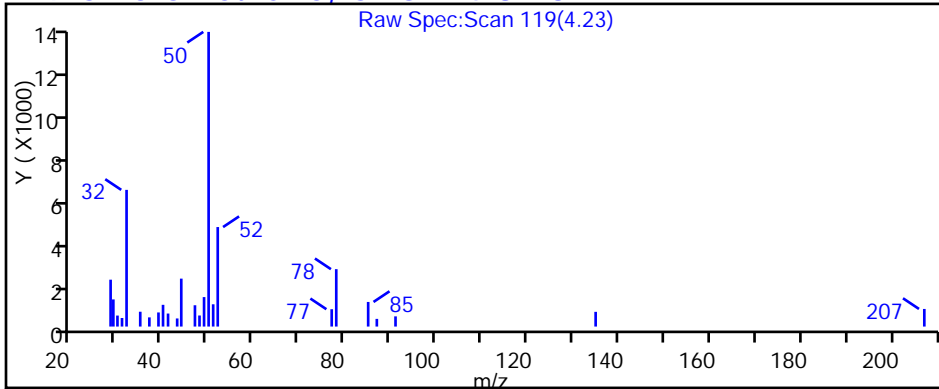
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

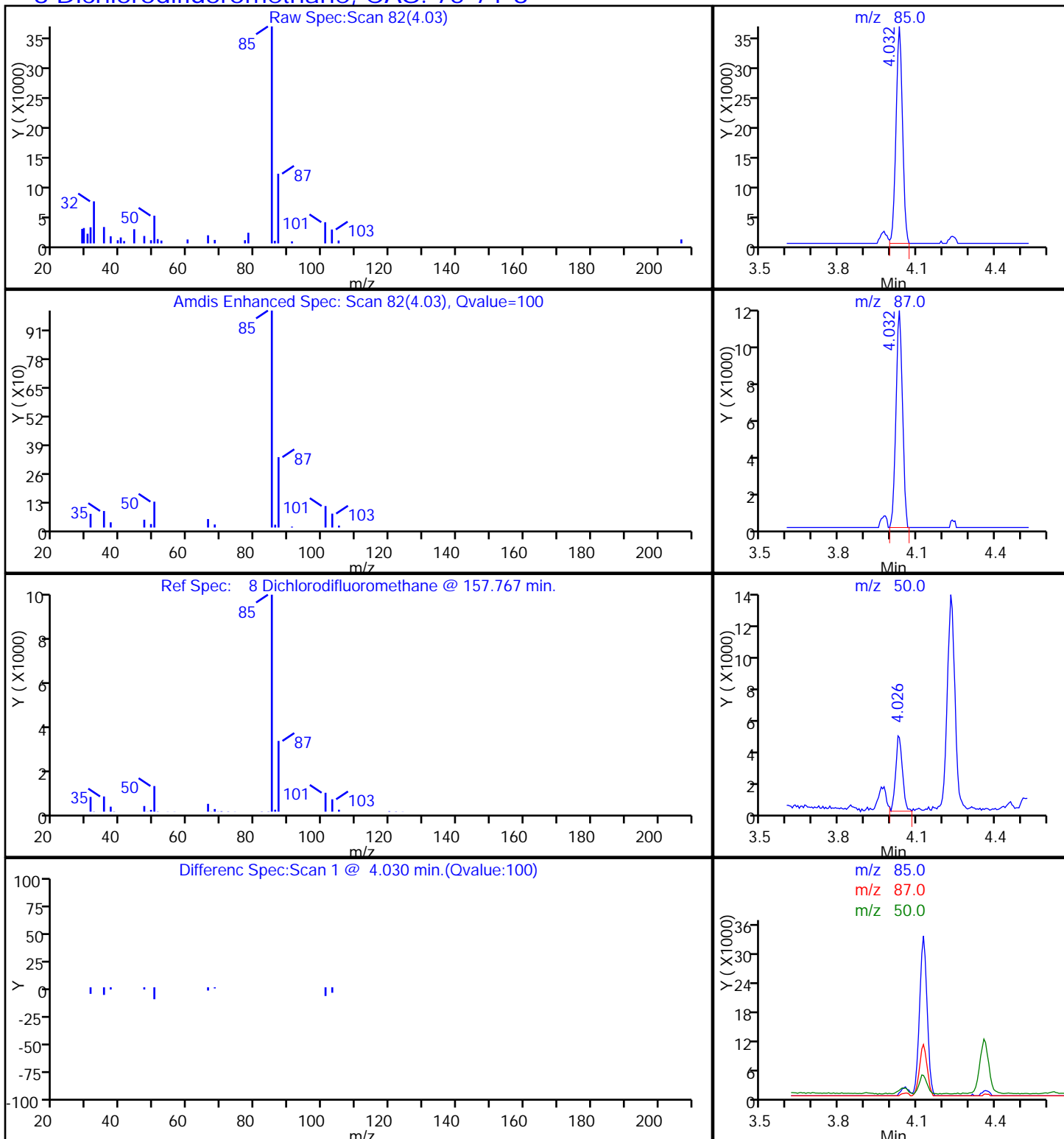
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

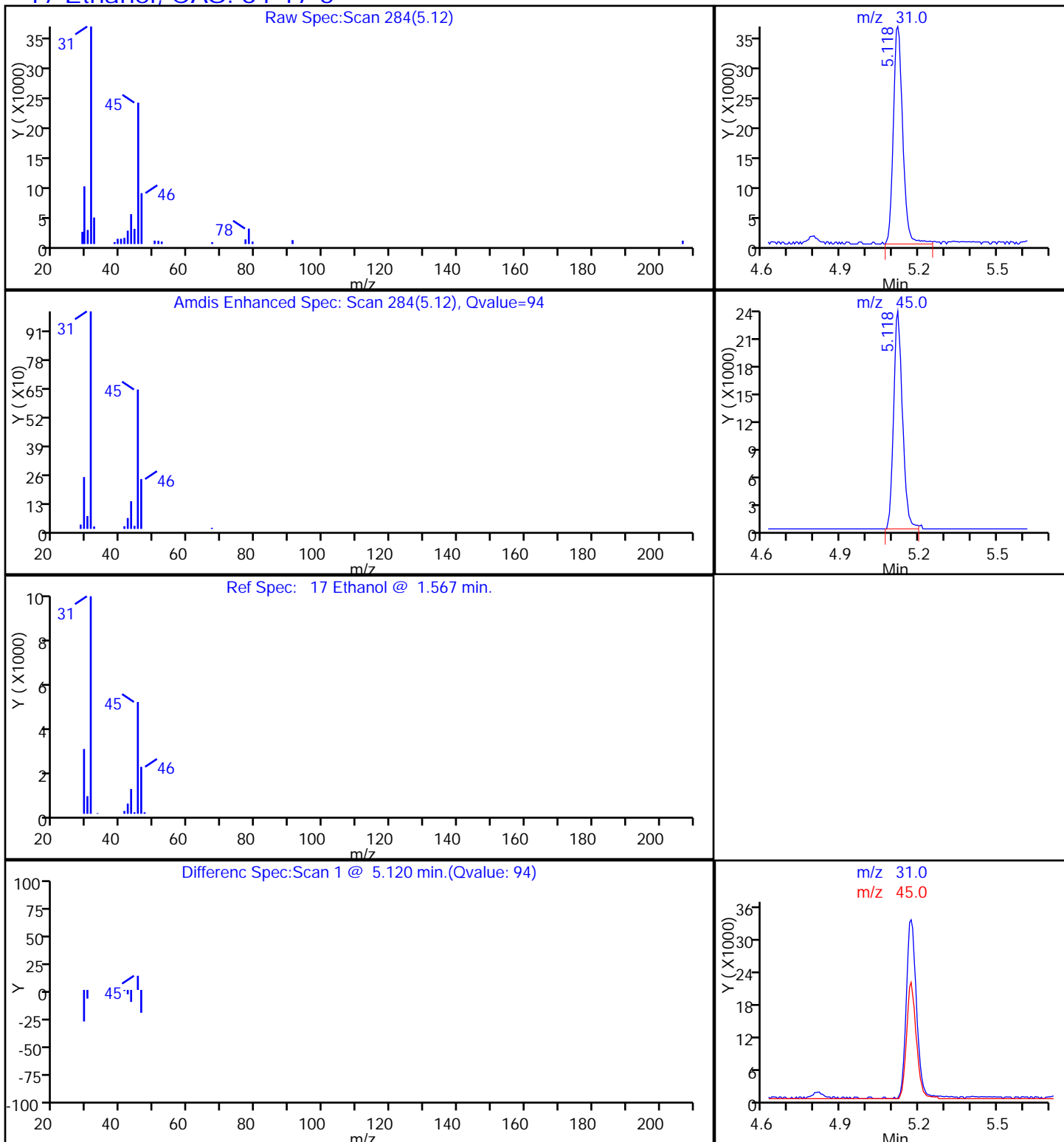
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

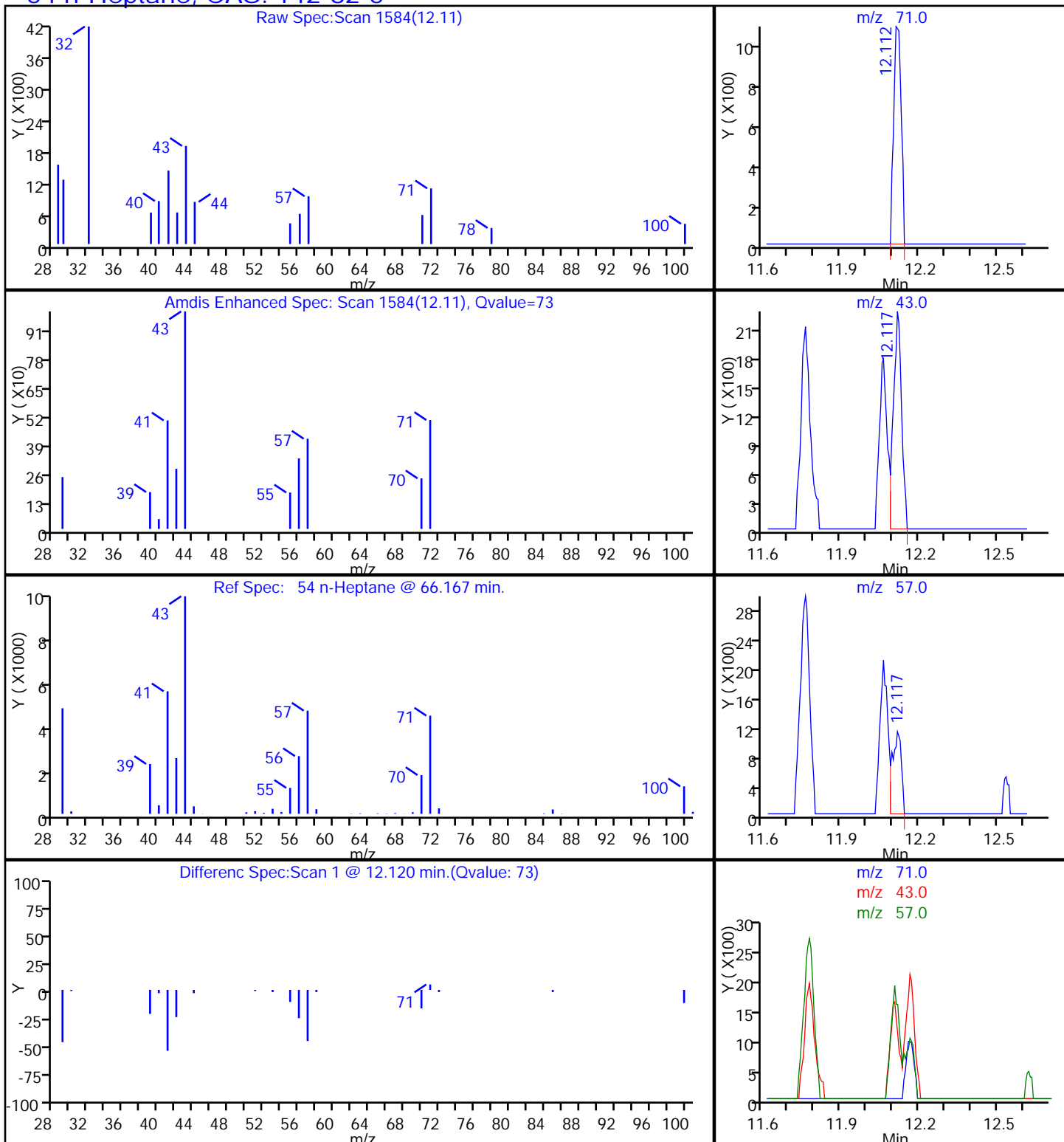
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

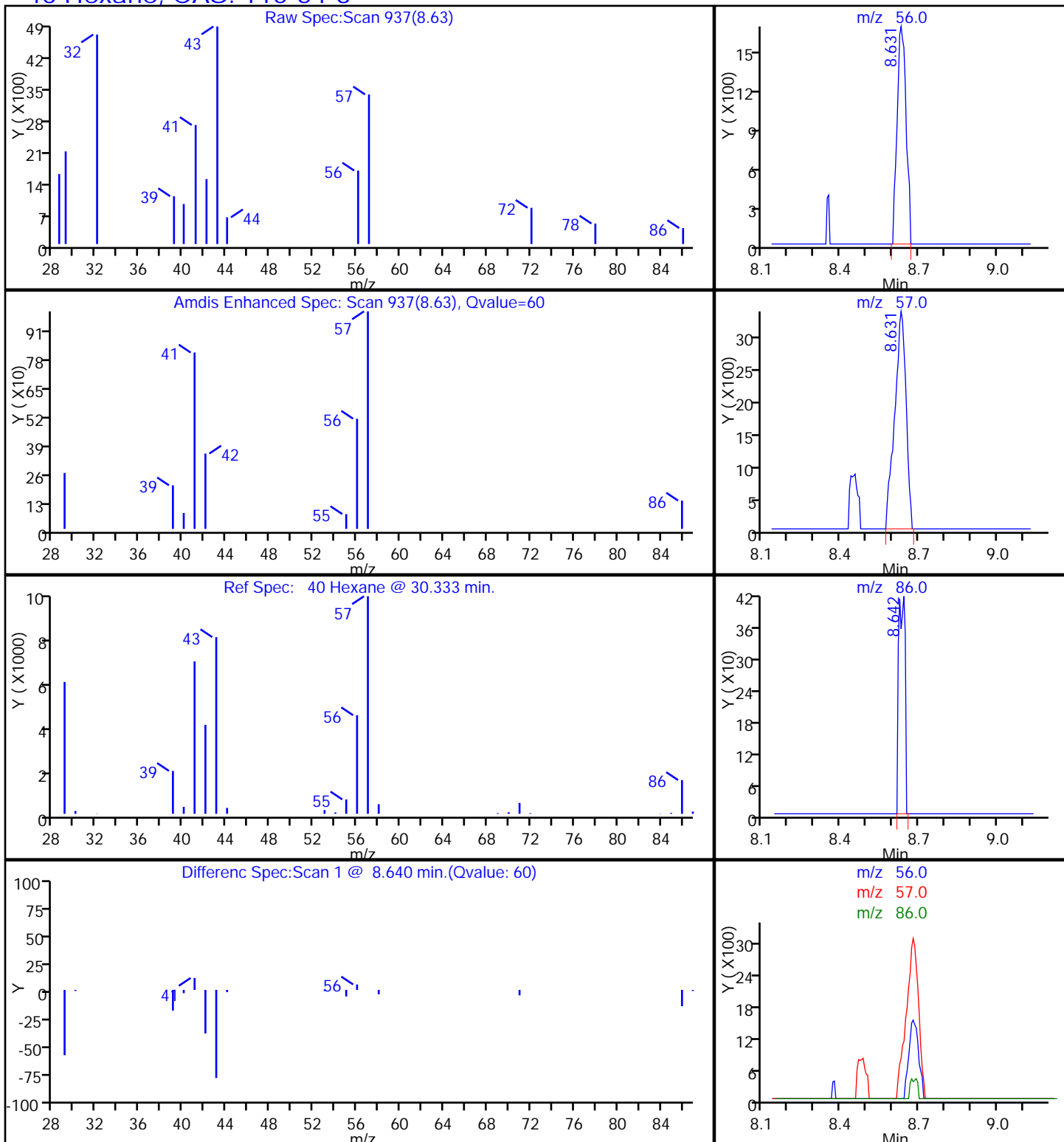
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

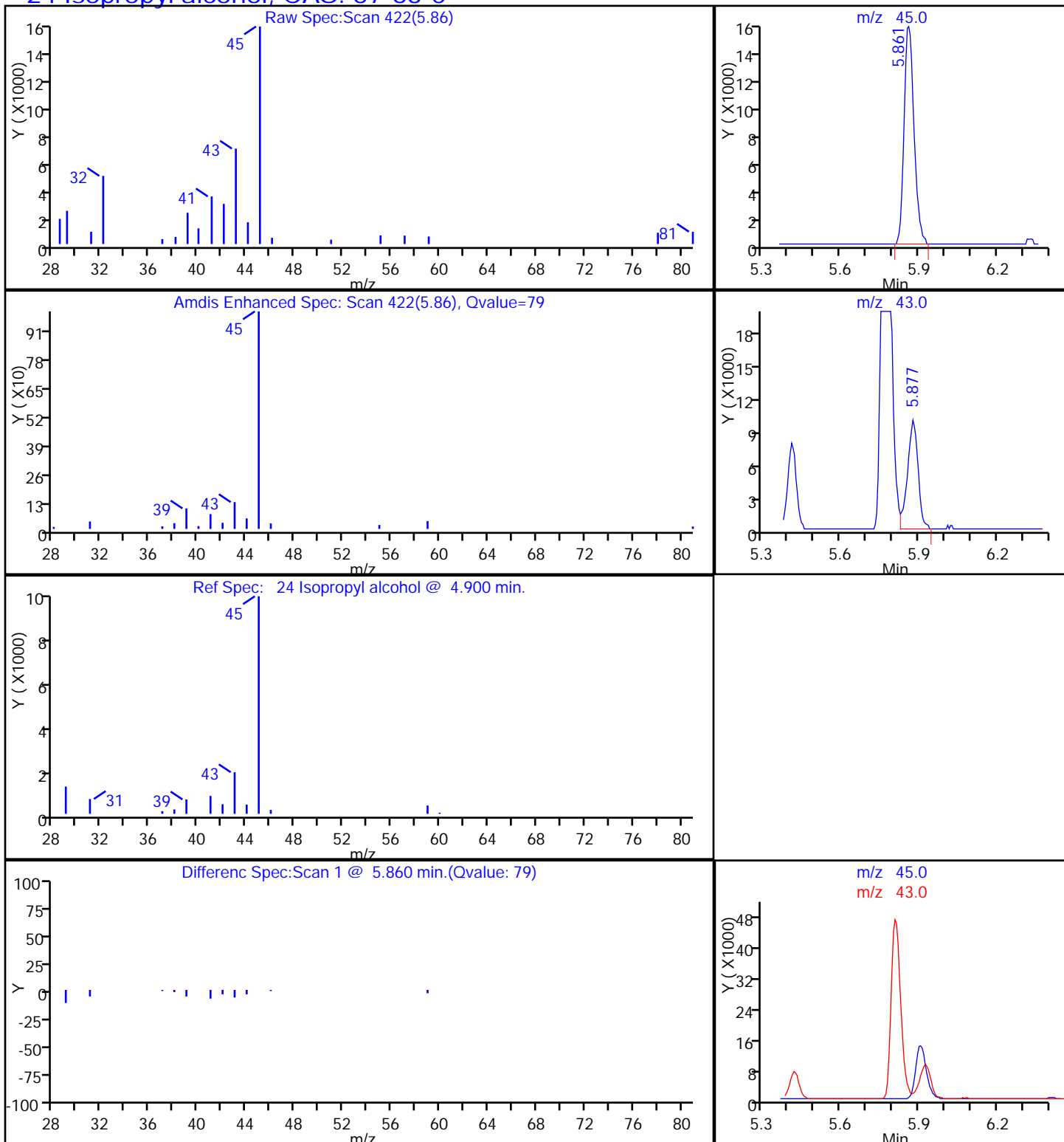
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

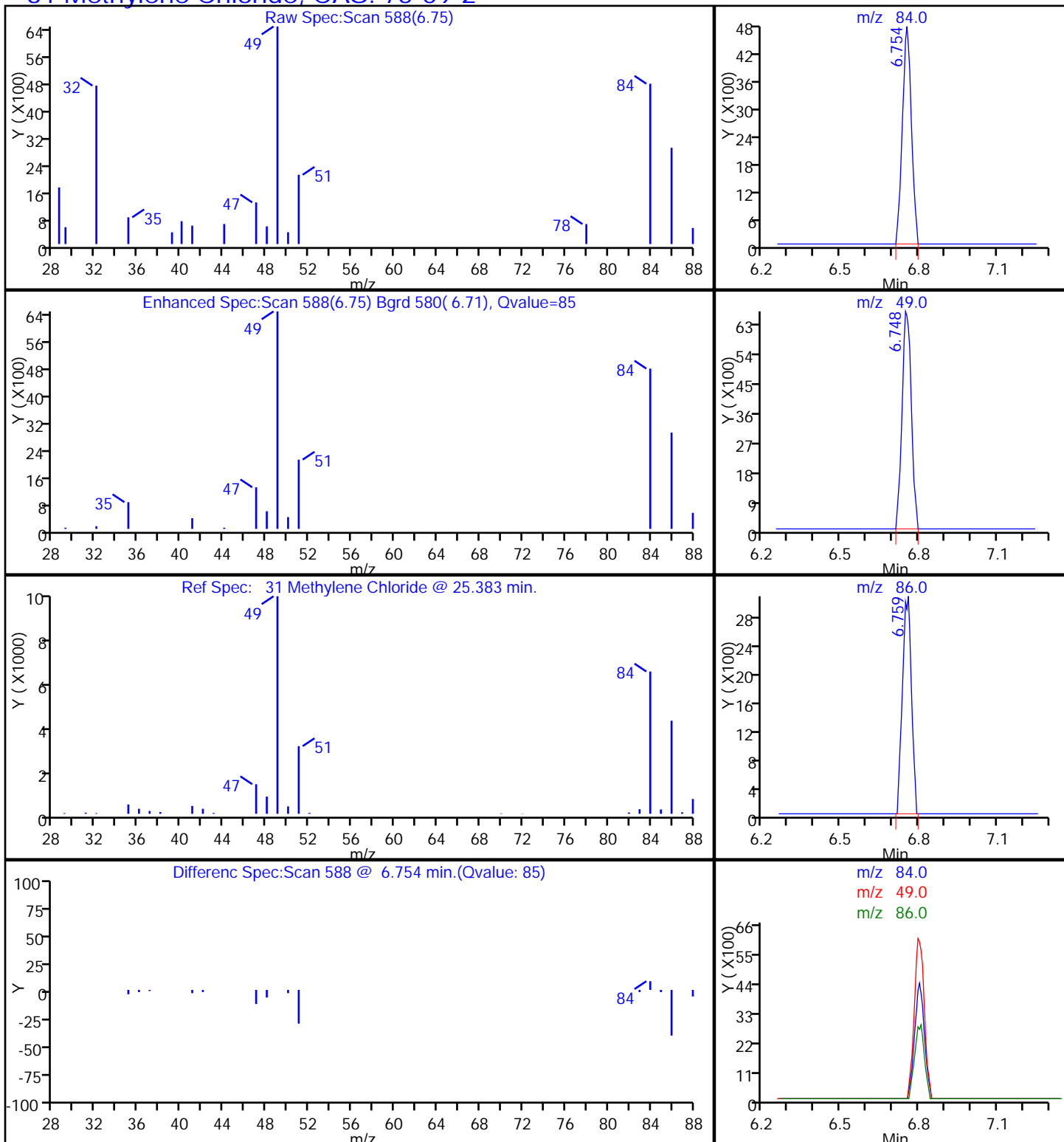
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

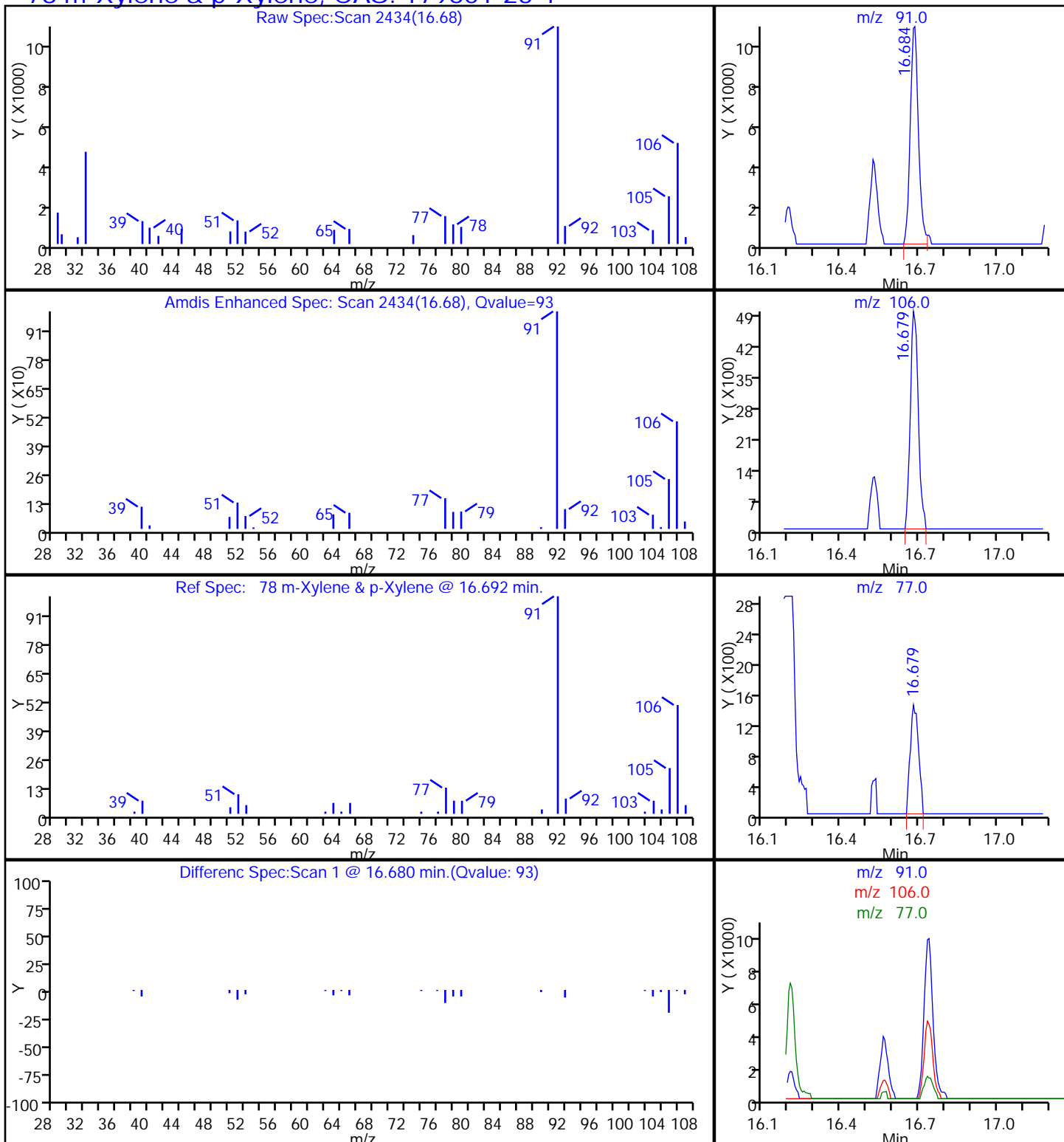
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

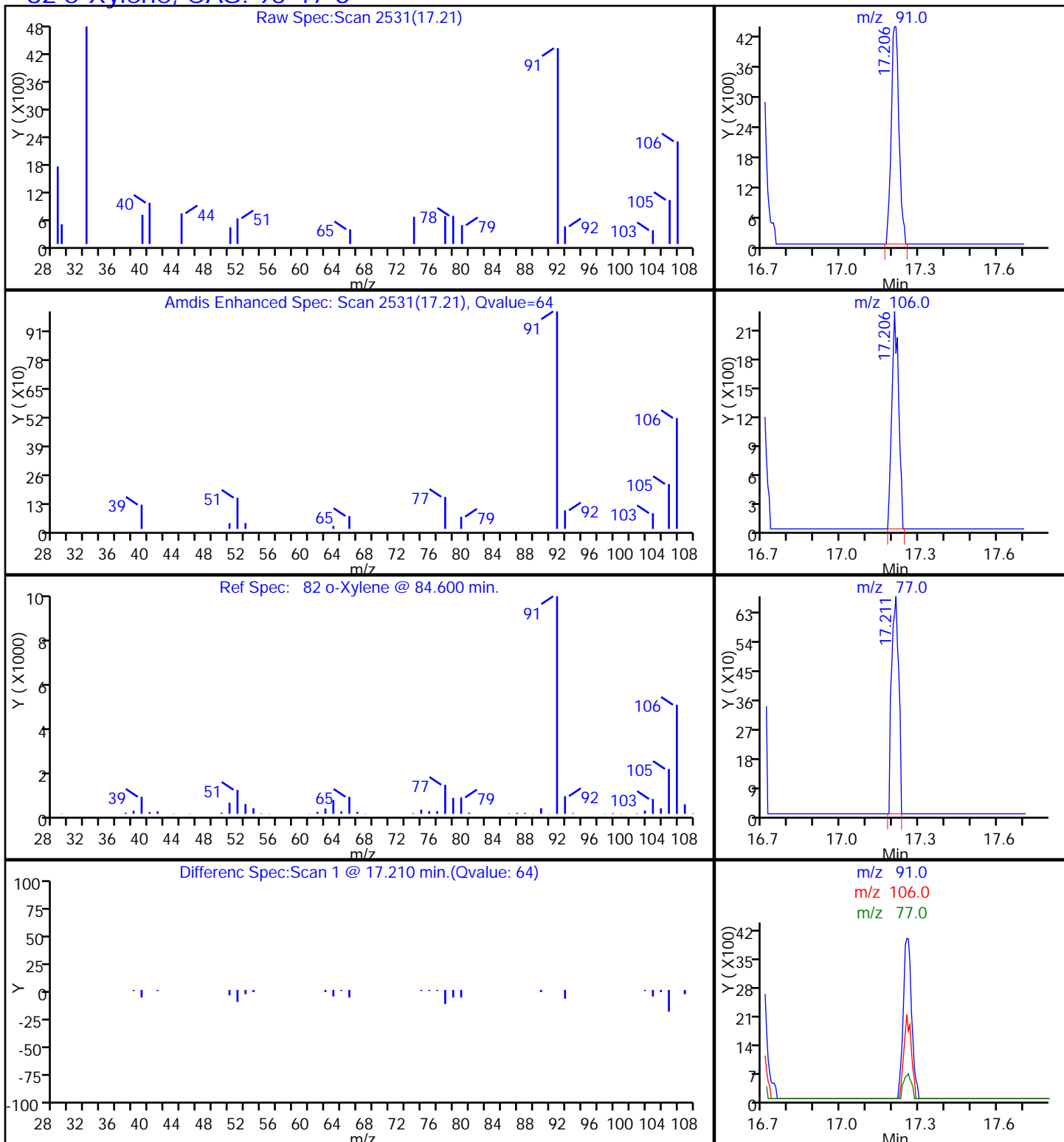
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

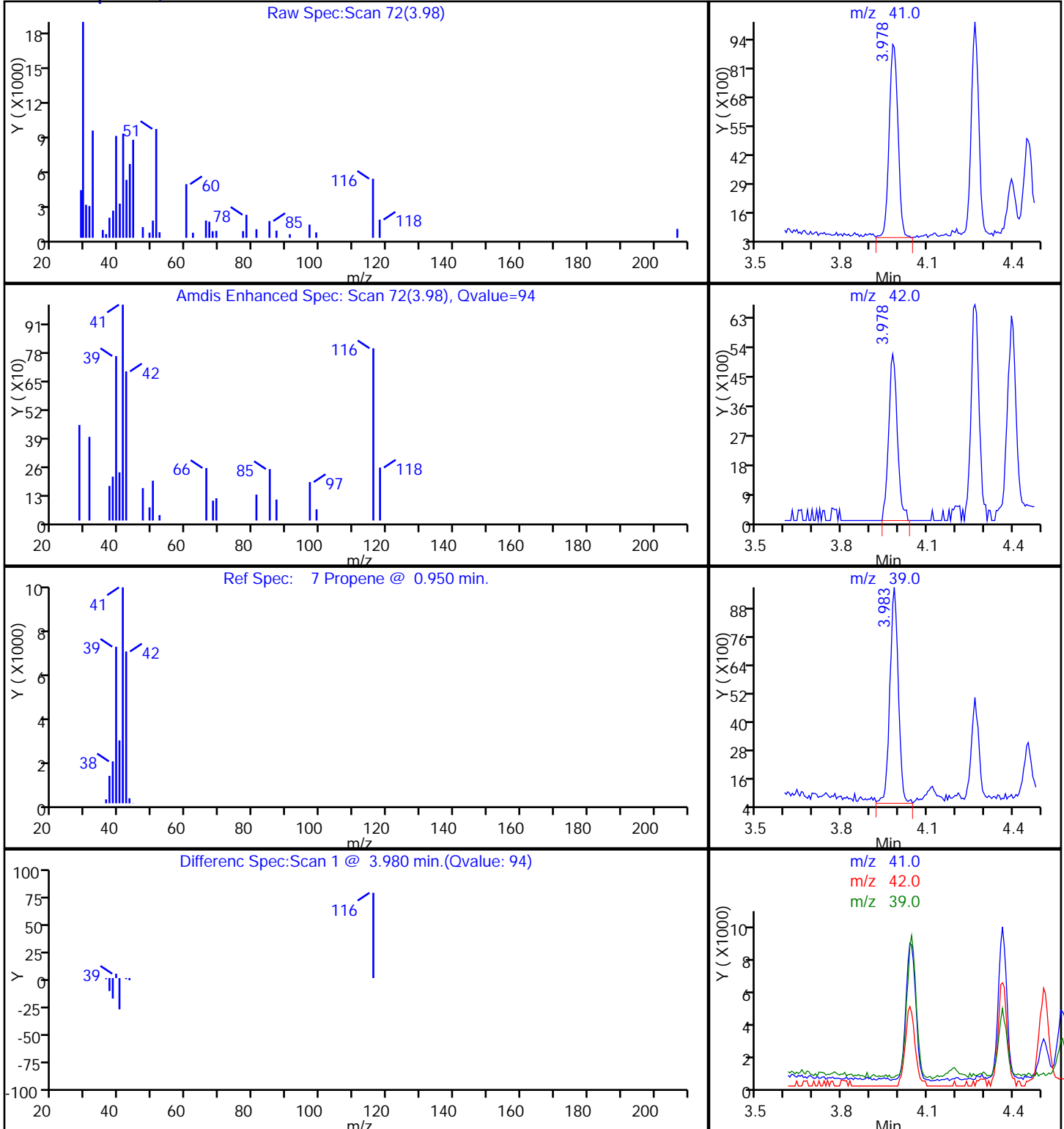
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

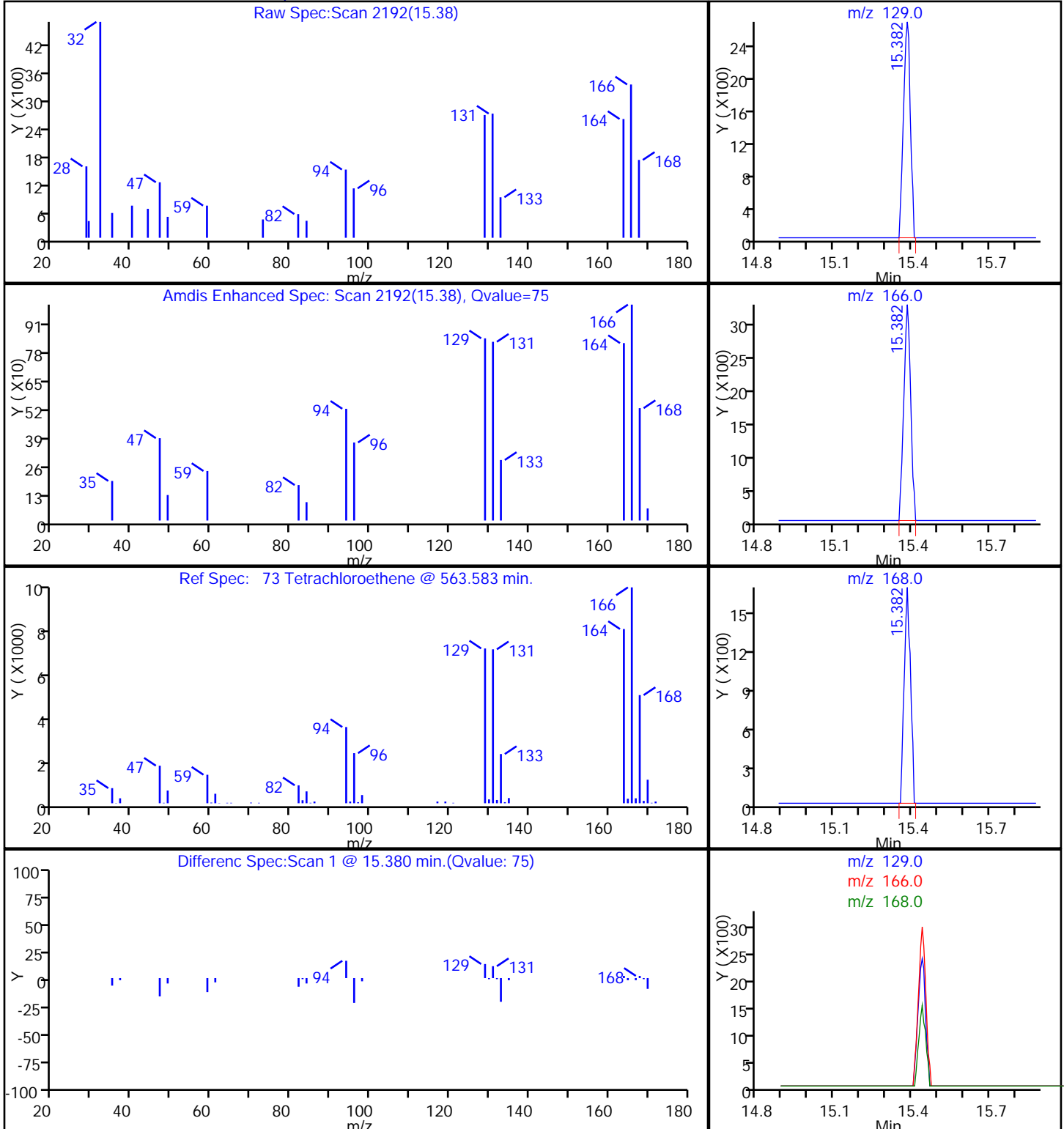
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

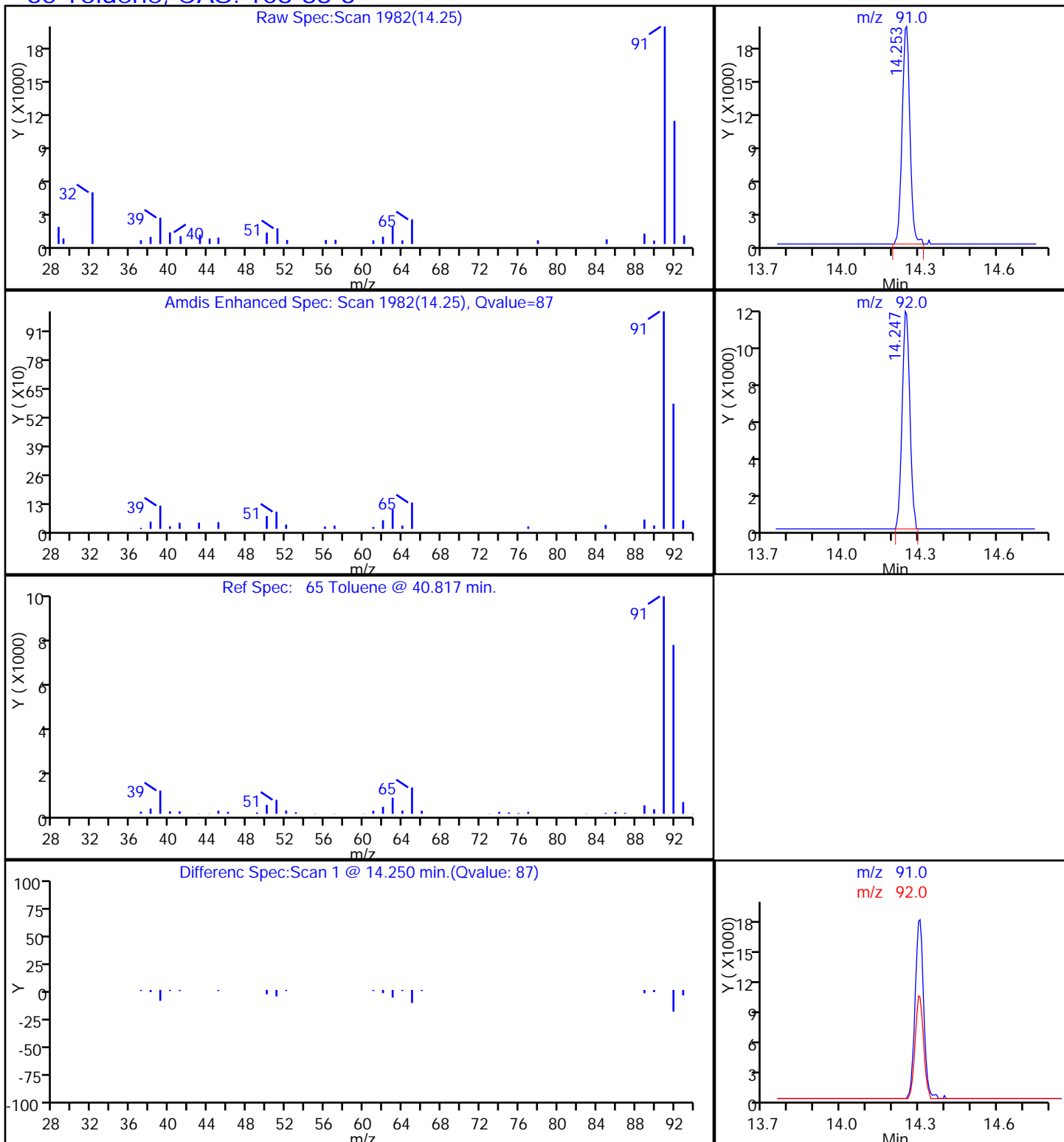
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P104.D

Injection Date: 19-Mar-2014 19:31:30

Instrument ID: MJ

Lims ID: 140-1063-A-19

Lab Sample ID: 140-1063-19

Client ID: AMB-1

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

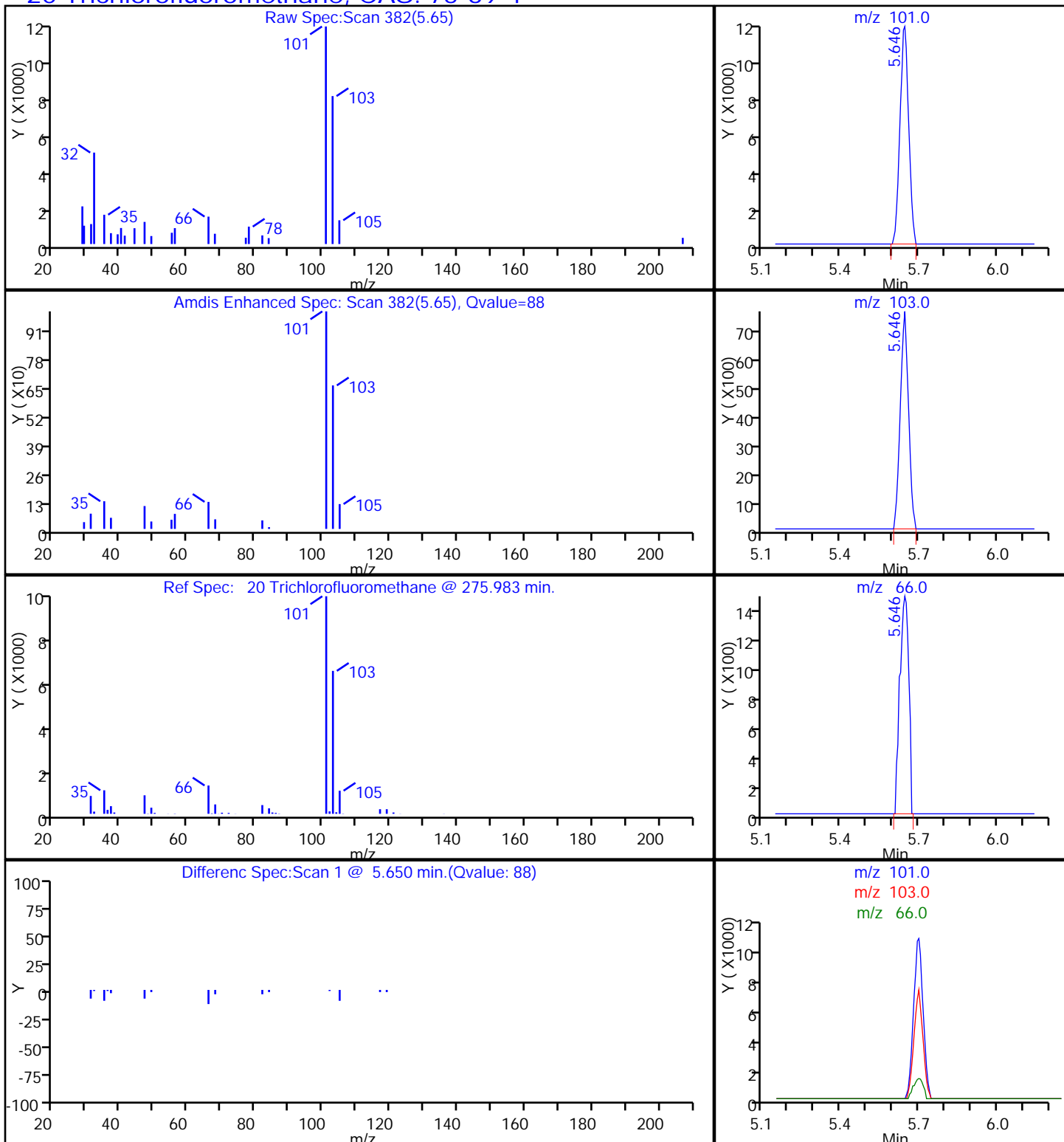
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20
 Matrix: Air Lab File ID: JC19P105.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:06
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.042	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.22	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.32	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.10	J	0.50	0.045
67-64-1	Acetone	58.08	1.7	J	5.0	1.4
71-43-2	Benzene	78.11	0.23		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20
 Matrix: Air Lab File ID: JC19P105.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:06
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.072	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.54		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.20	0.068
64-17-5	Ethanol	46.07	12		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.053	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.11	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.83	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.29	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.14	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	0.43	J cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.37		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20
 Matrix: Air Lab File ID: JC19P105.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:06
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 20:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20
 Matrix: Air Lab File ID: JC19P105.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:06
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.19	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.65	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	0.96	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.42	J	2.0	0.18
67-64-1	Acetone	58.08	4.1	J	12	3.3
71-43-2	Benzene	78.11	0.74		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20
 Matrix: Air Lab File ID: JC19P105.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:06
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 20:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34
64-17-5	Ethanol	46.07	23		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.22	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.39	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	2.1	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.0	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.62	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	0.74	J cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: AMB-3 Lab Sample ID: 140-1063-20
 Matrix: Air Lab File ID: JC19P105.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:06
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 20:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D
 Lims ID: 140-1063-A-20 Lab Sample ID: 140-1063-20
 Client ID: AMB-3
 Sample Type: Client
 Inject. Date: 19-Mar-2014 20:25:30 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-20
 Misc. Info.: J031914,TO15,,140-0000532-011
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:42:38 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:42:38

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.378	9.385	-0.007	90	343417	4.00	
* 2 1,4-Difluorobenzene	114	11.535	11.542	-0.007	94	1655946	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.193	16.201	-0.008	87	1371389	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.813	17.820	-0.007	90	883688	3.64	
7 Propene	41	3.977	3.973	0.004	60	18150	0.1724	
8 Dichlorodifluoromethane	85	4.025	4.032	-0.007	100	63130	0.1856	
9 Chloromethane	52	4.229	4.231	-0.002	100	8289	0.2145	
17 Ethanol	31	5.112	5.119	-0.007	95	133470	4.84	
19 2-Methylbutane	43	5.402	5.409	-0.007	89	18956	0.1300	
20 Trichlorofluoromethane	101	5.639	5.646	-0.007	88	25482	0.0853	
23 Acetone	58	5.768	5.770	-0.002	91	33366	0.6835	
24 Isopropyl alcohol	45	5.854	5.850	0.004	93	43036	0.3339	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.580	6.582	-0.002	54	5854	0.0283	
31 Methylene Chloride	84	6.747	6.754	-0.007	87	10618	0.1156	
39 2-Butanone (MEK)	72	8.598	8.589	0.009	81	2847	0.0876	
40 Hexane	56	8.630	8.637	-0.007	74	4039	0.0437	
48 Benzene	78	11.018	11.026	-0.008	89	26478	0.0932	
50 Carbon tetrachloride	117	11.045	11.047	-0.002	85	6726	0.0287	
53 Isooctane	57	11.755	11.763	-0.008	67	8084	0.0167	
54 n-Heptane	71	12.121	12.123	-0.002	73	2134	0.0212	
62 4-Methyl-2-pentanone (MIBK)	43	13.375	13.371	0.004	82	7129	0.0411	
65 Toluene	91	14.246	14.253	-0.007	88	37802	0.1486	
78 m-Xylene & p-Xylene	91	16.683	16.685	-0.002	83	12862	0.0567	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Worklist Smp#: 11

Client ID: AMB-3

Purge Vol: 500.000 mL

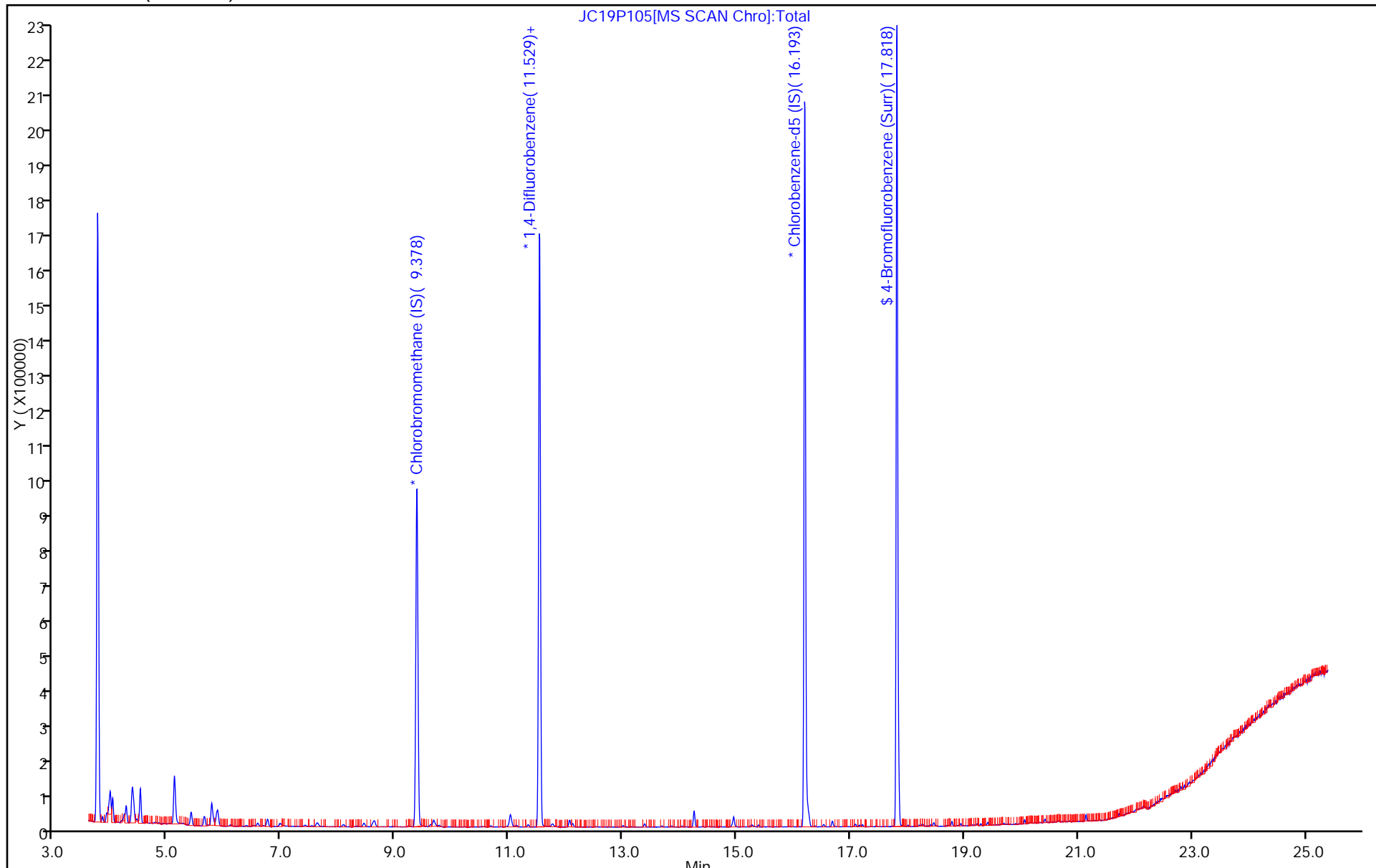
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

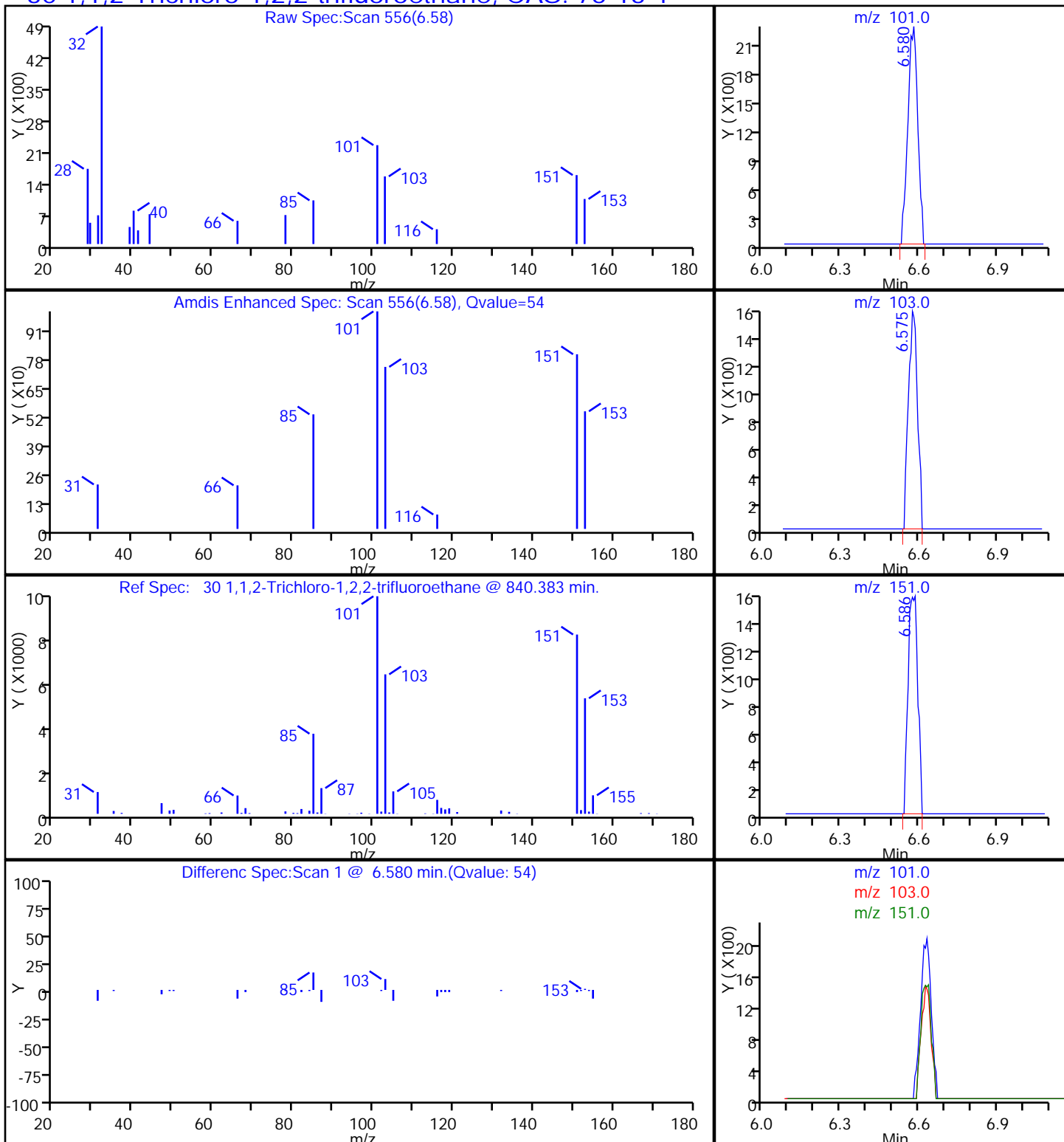
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

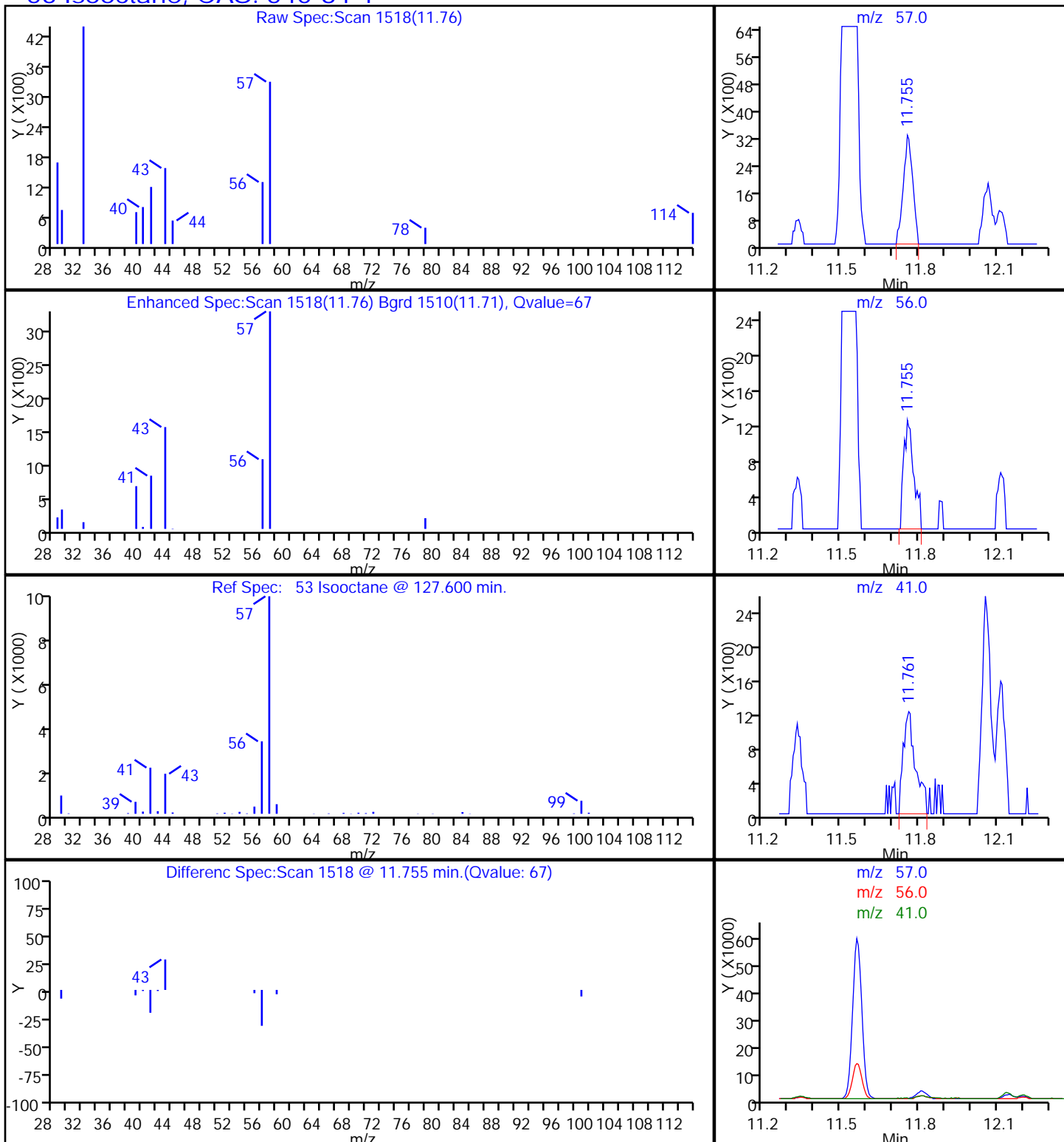
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

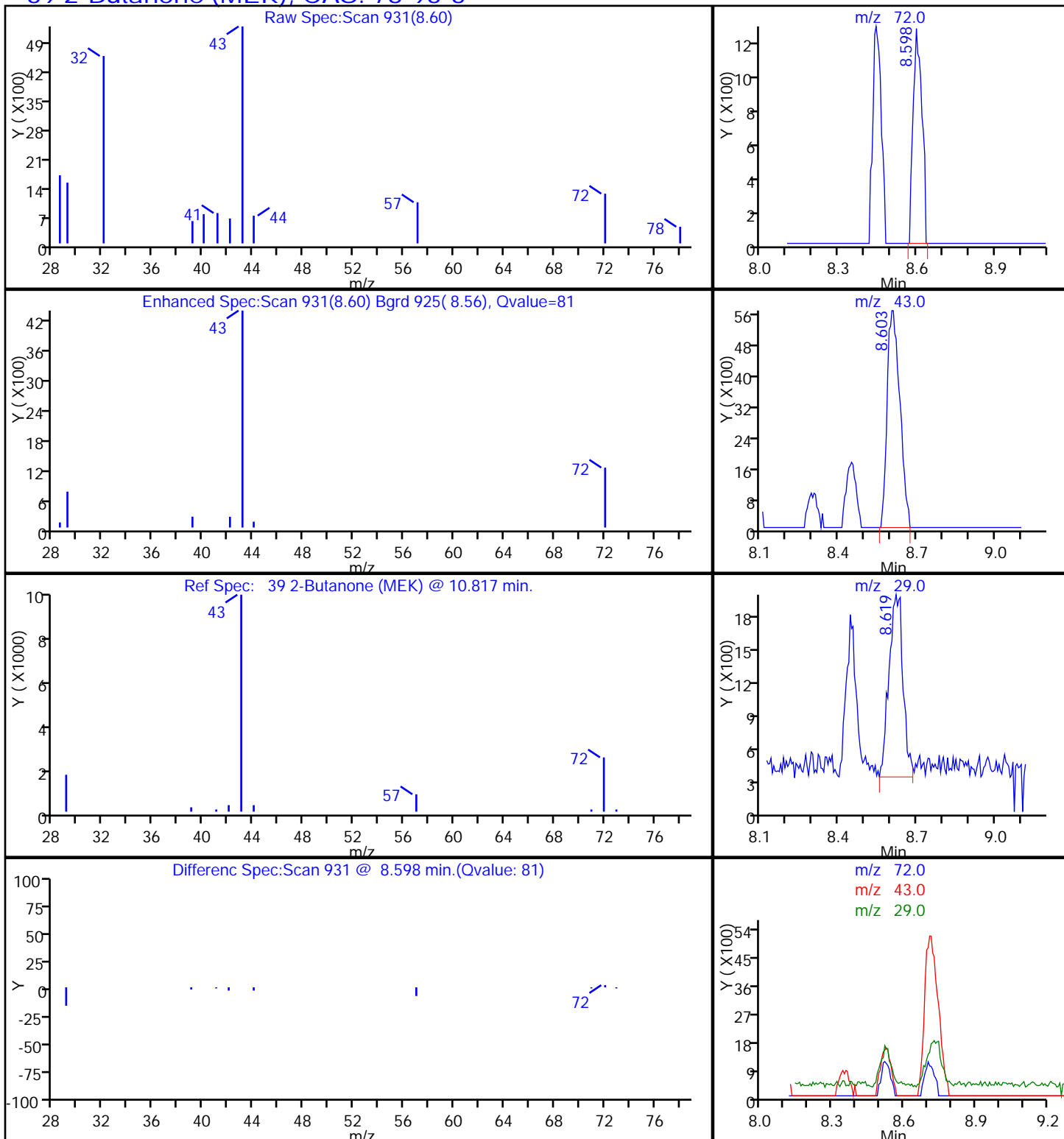
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

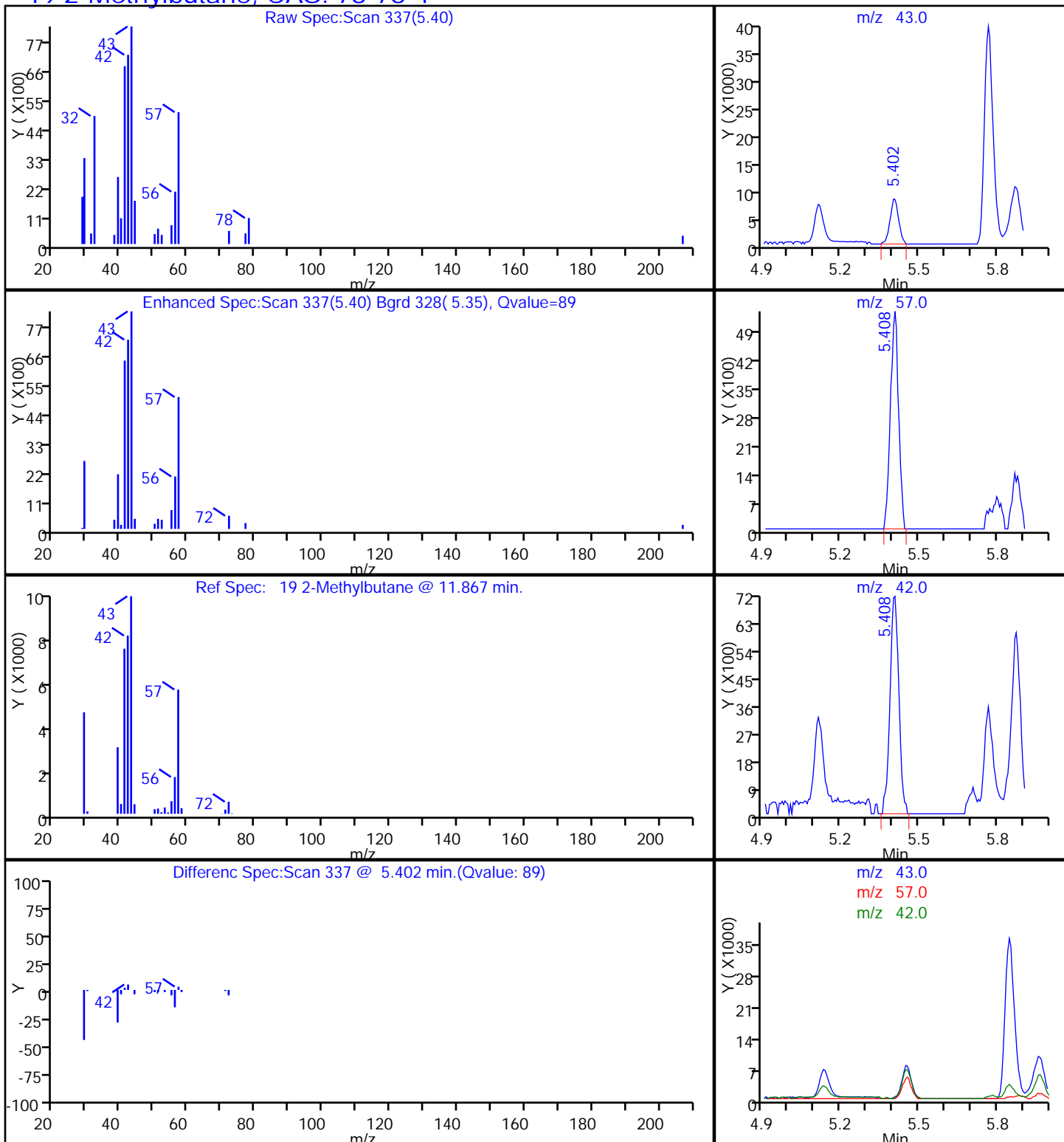
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

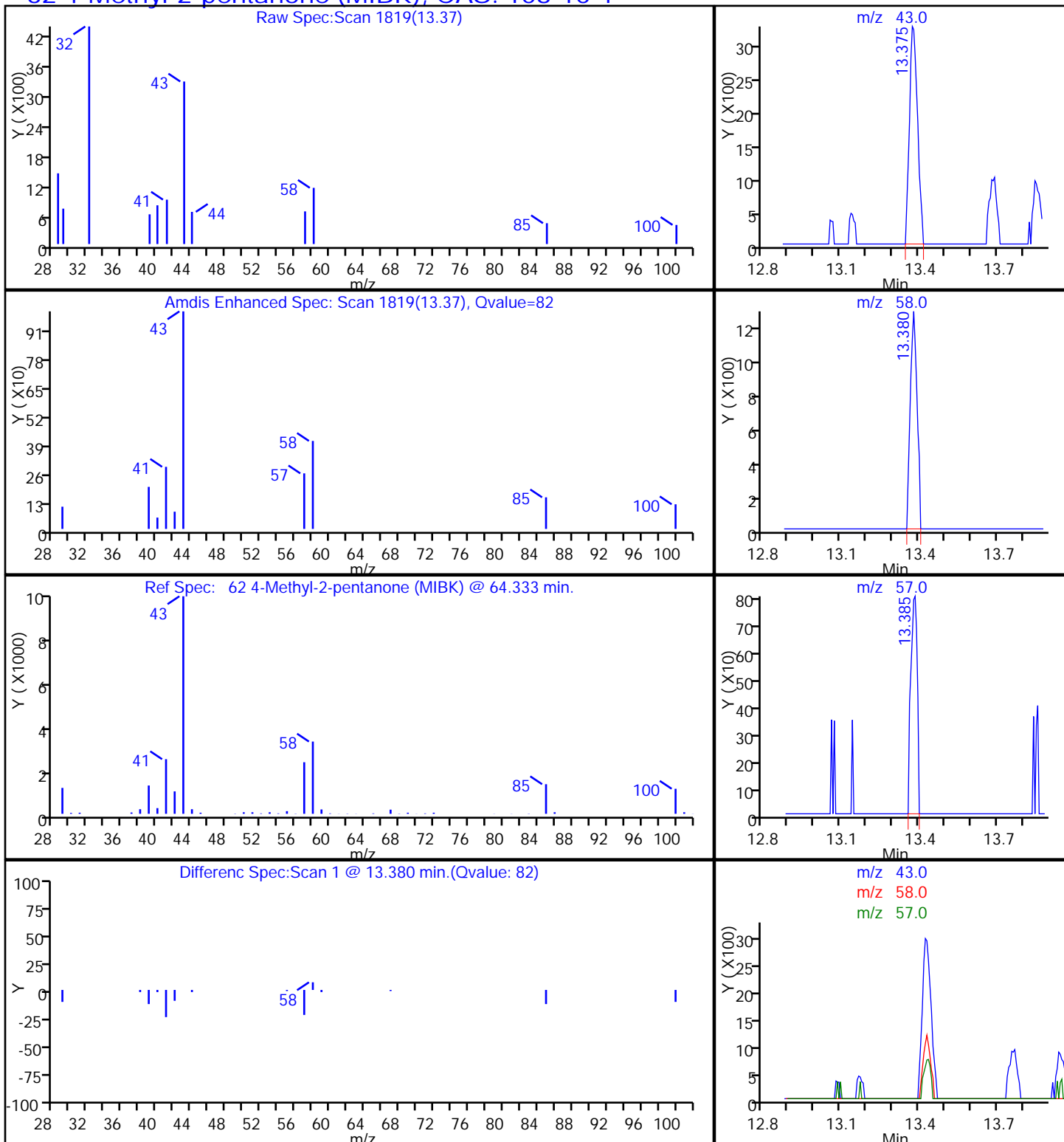
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

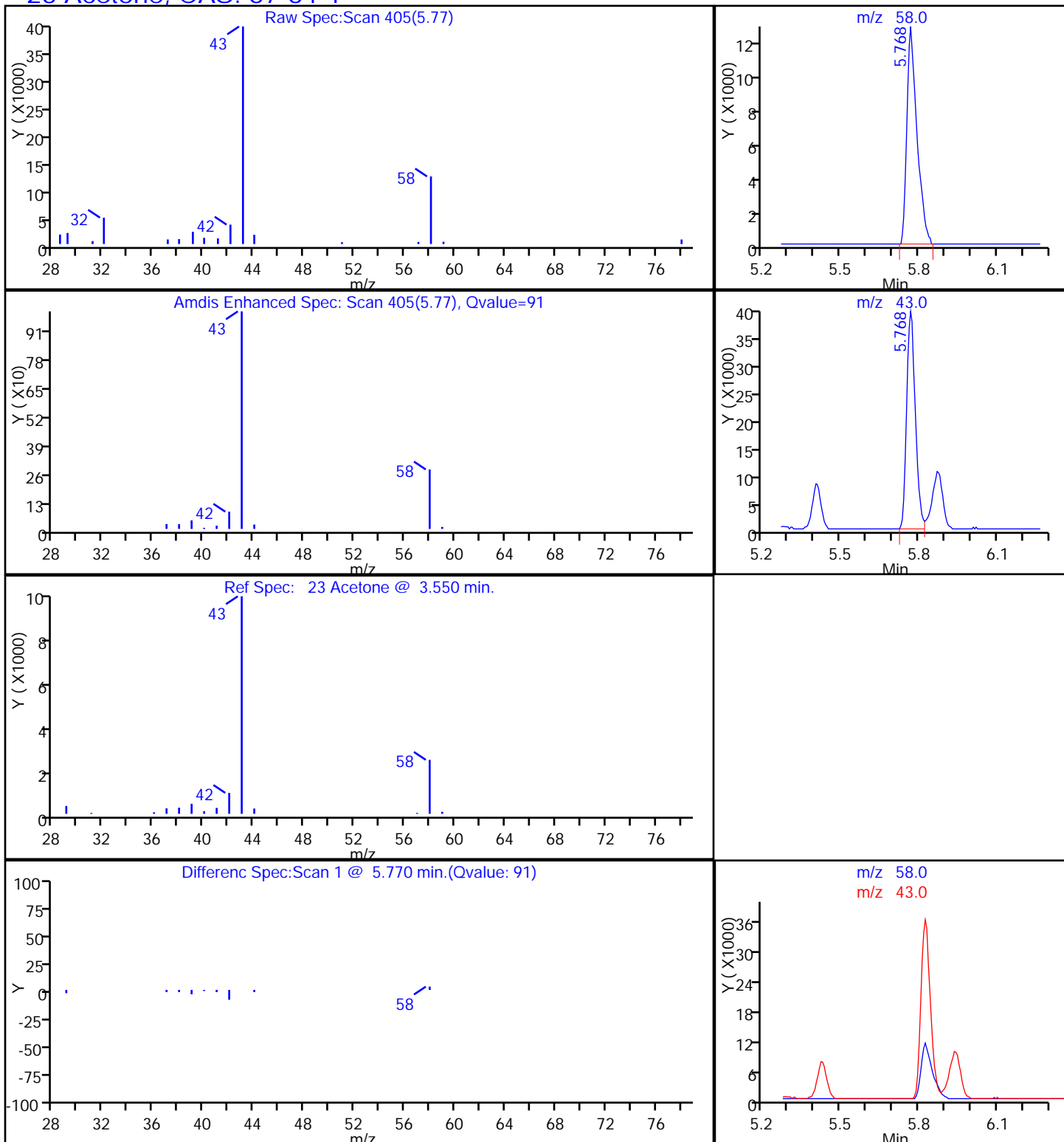
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

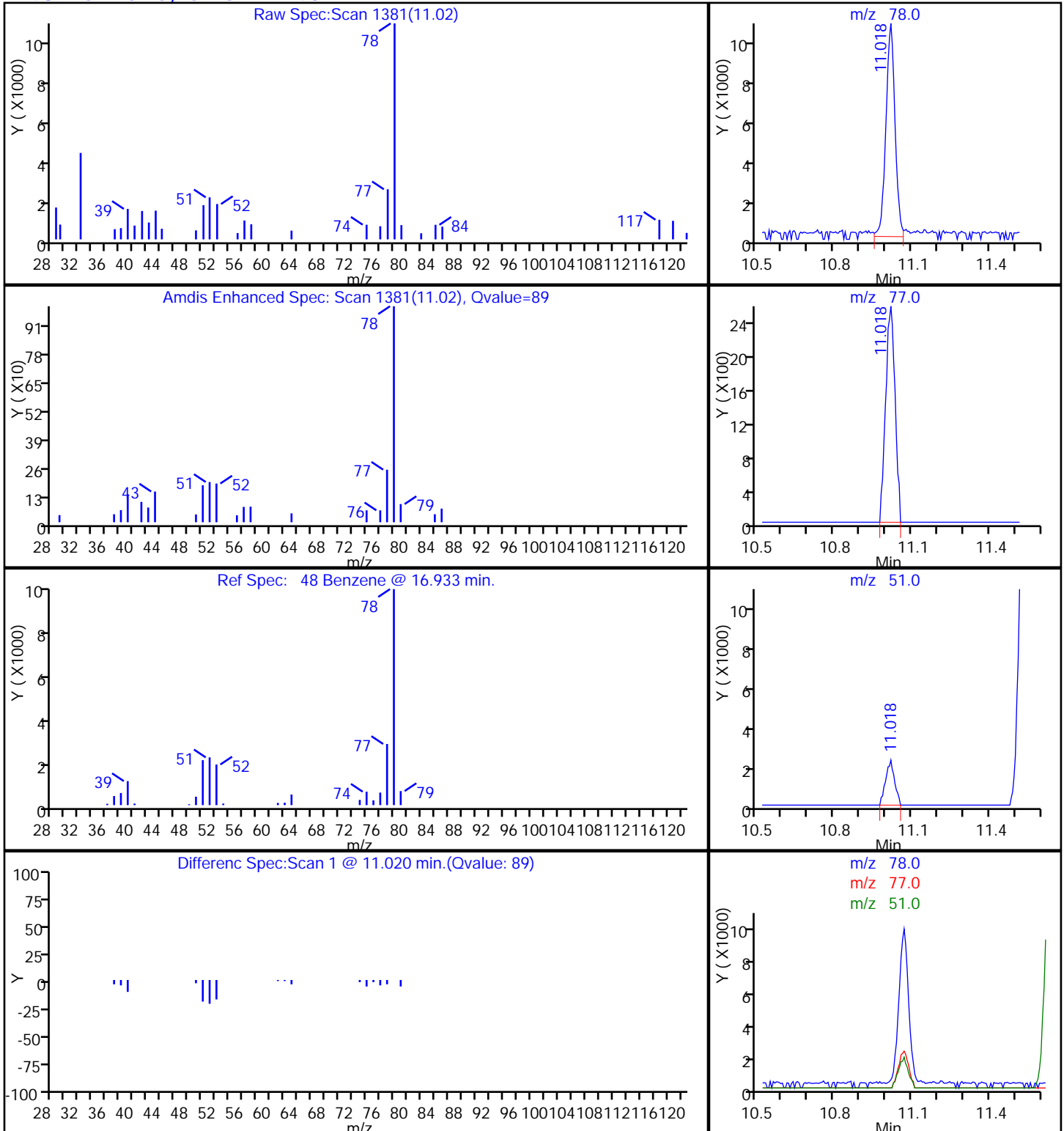
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

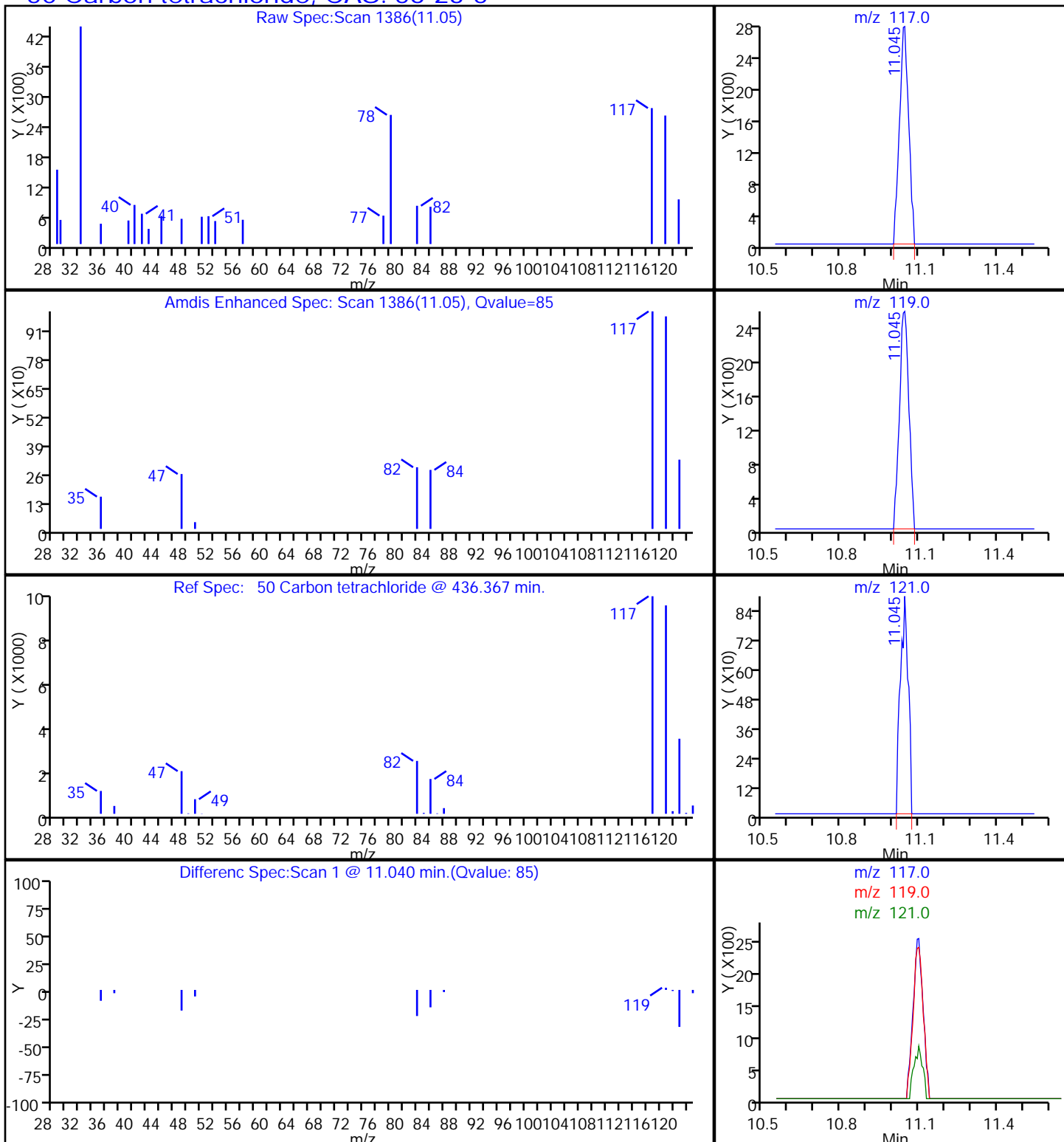
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

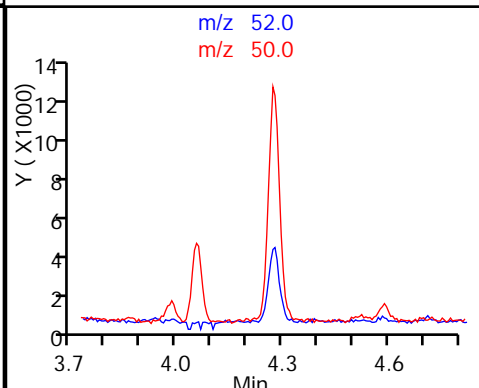
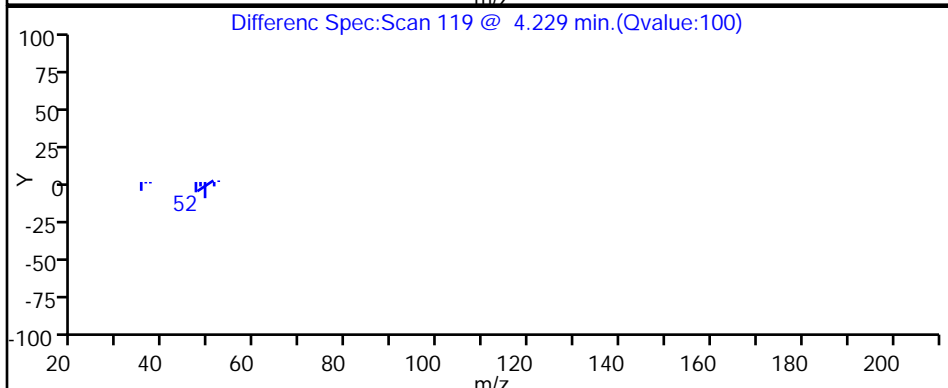
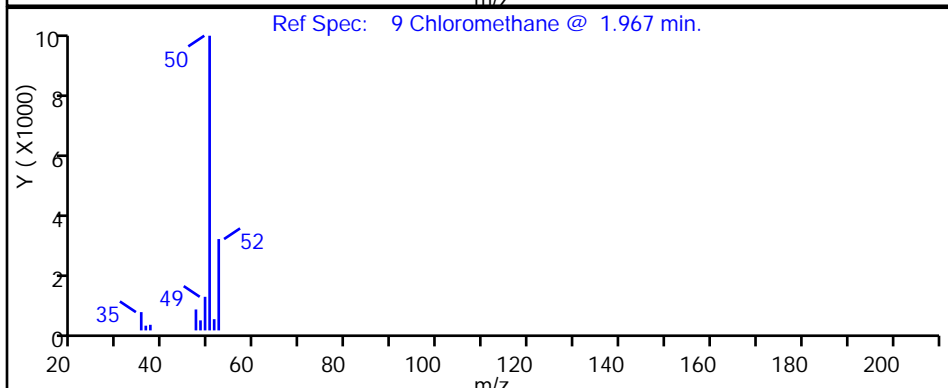
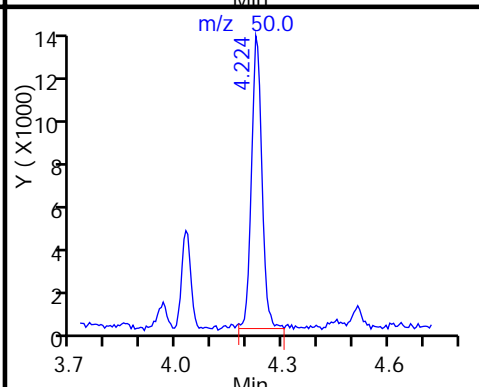
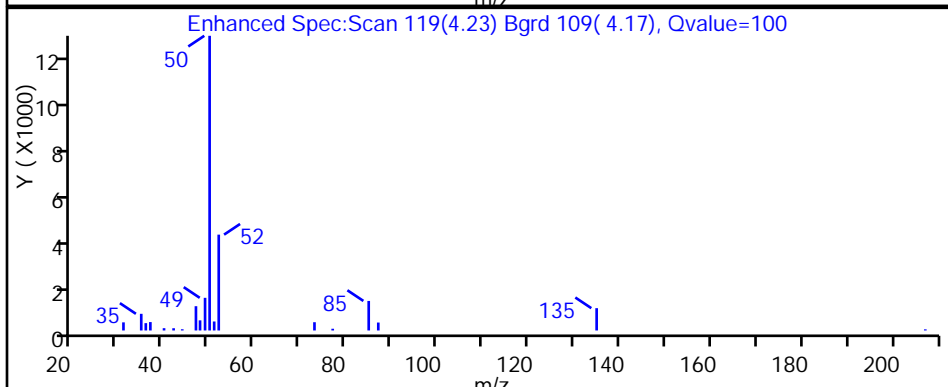
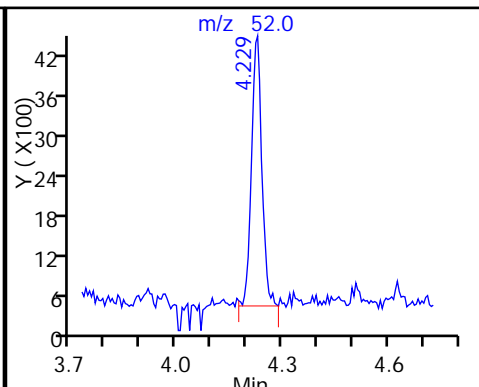
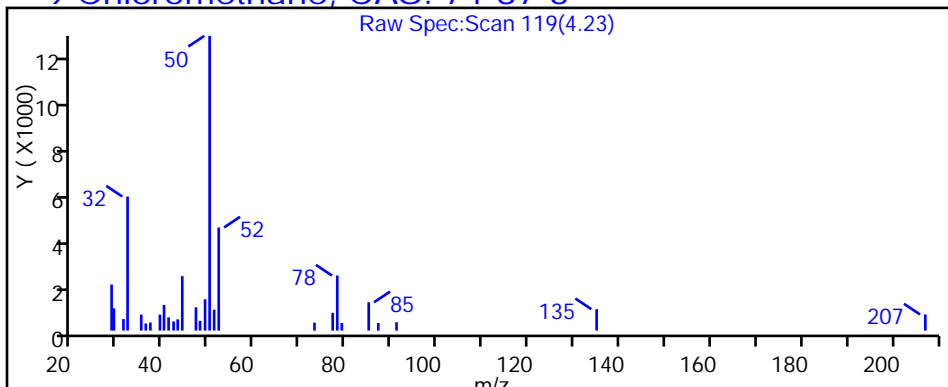
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

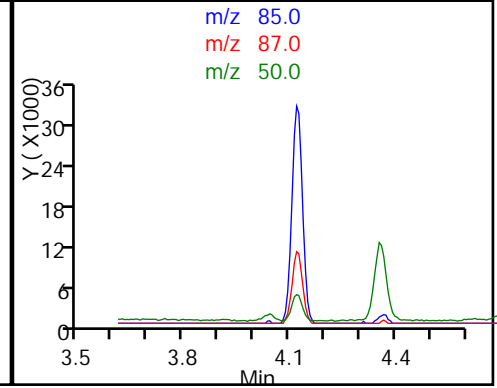
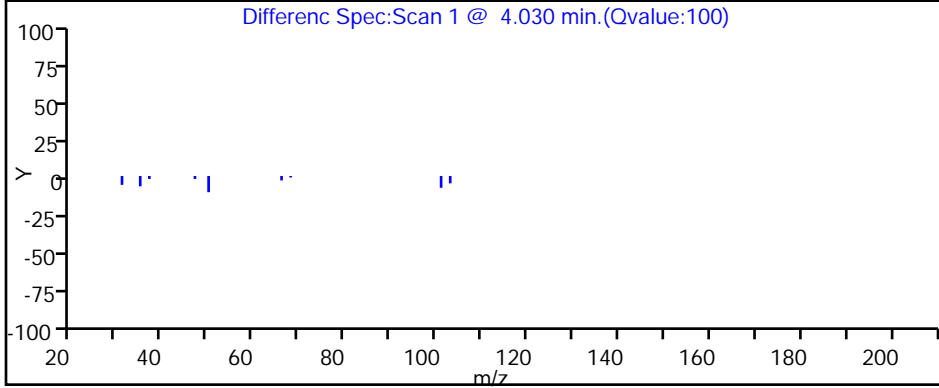
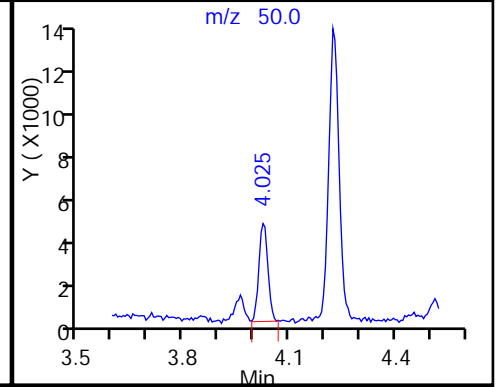
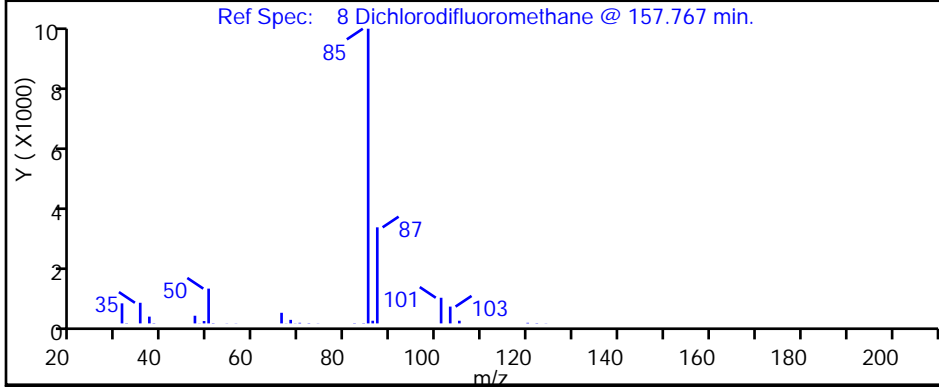
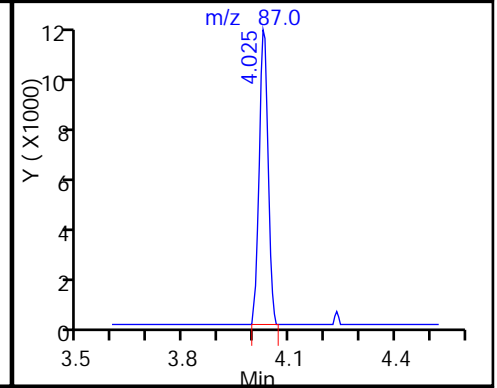
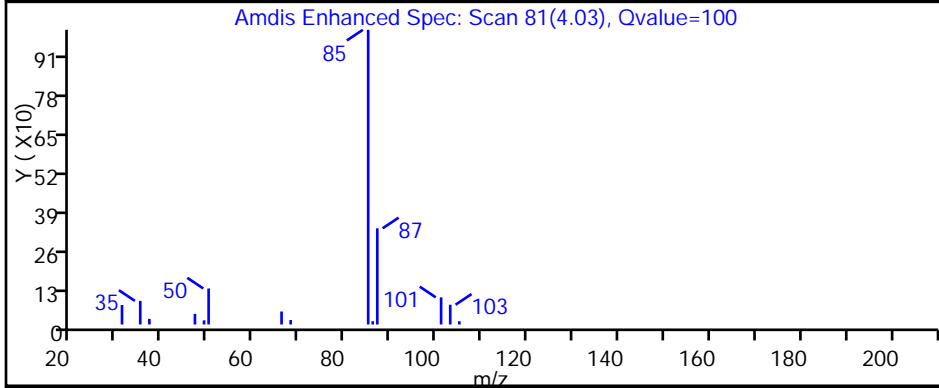
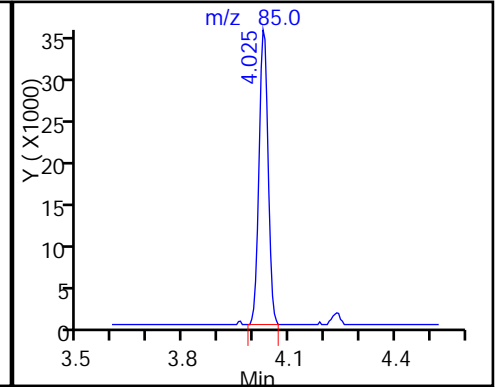
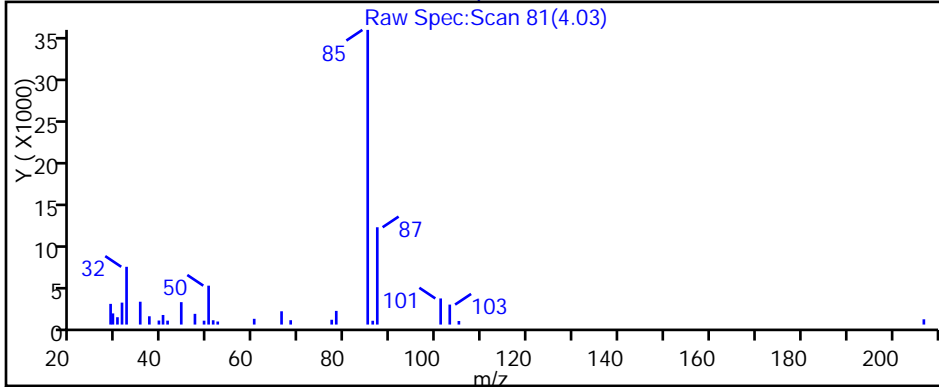
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

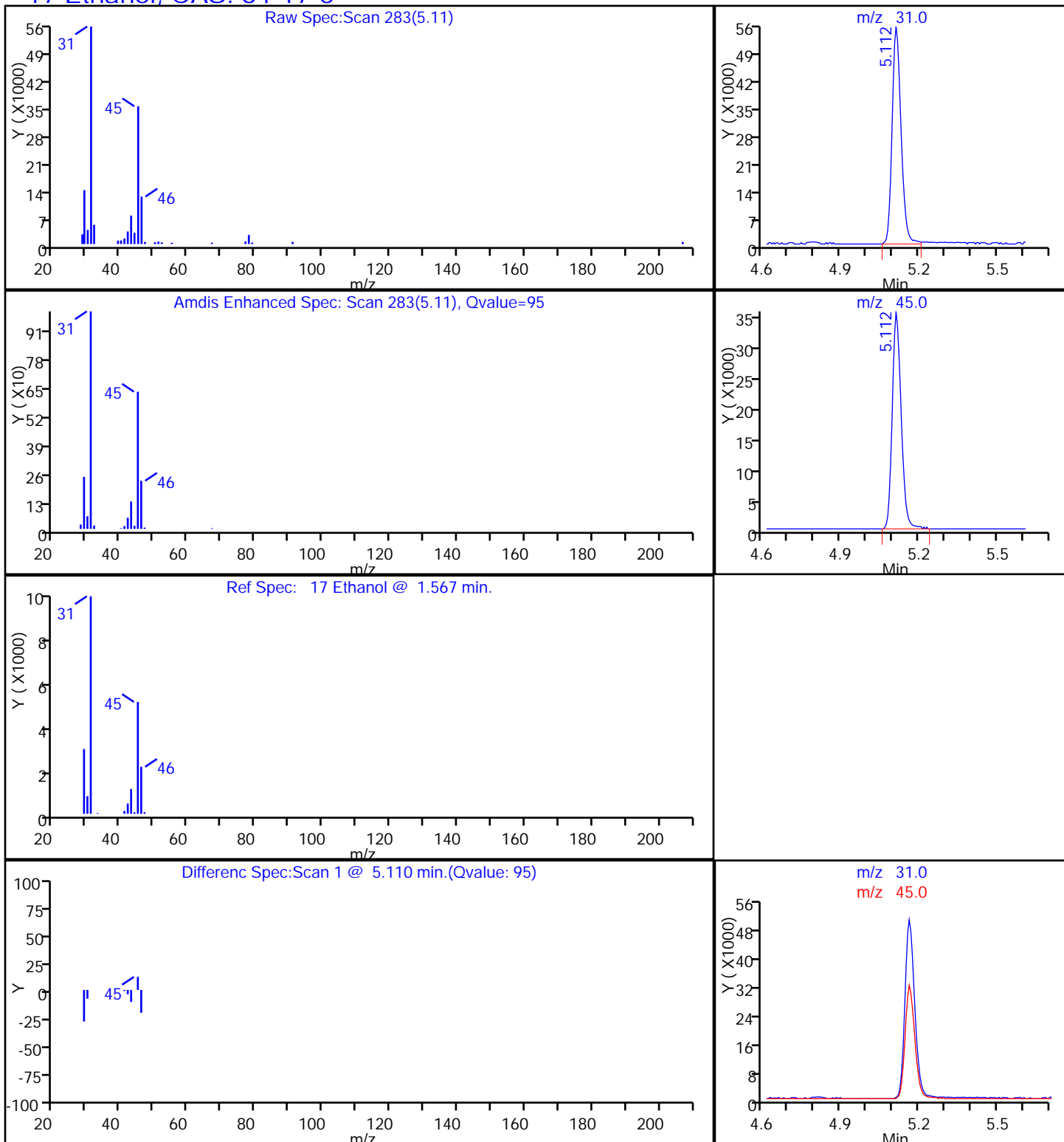
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

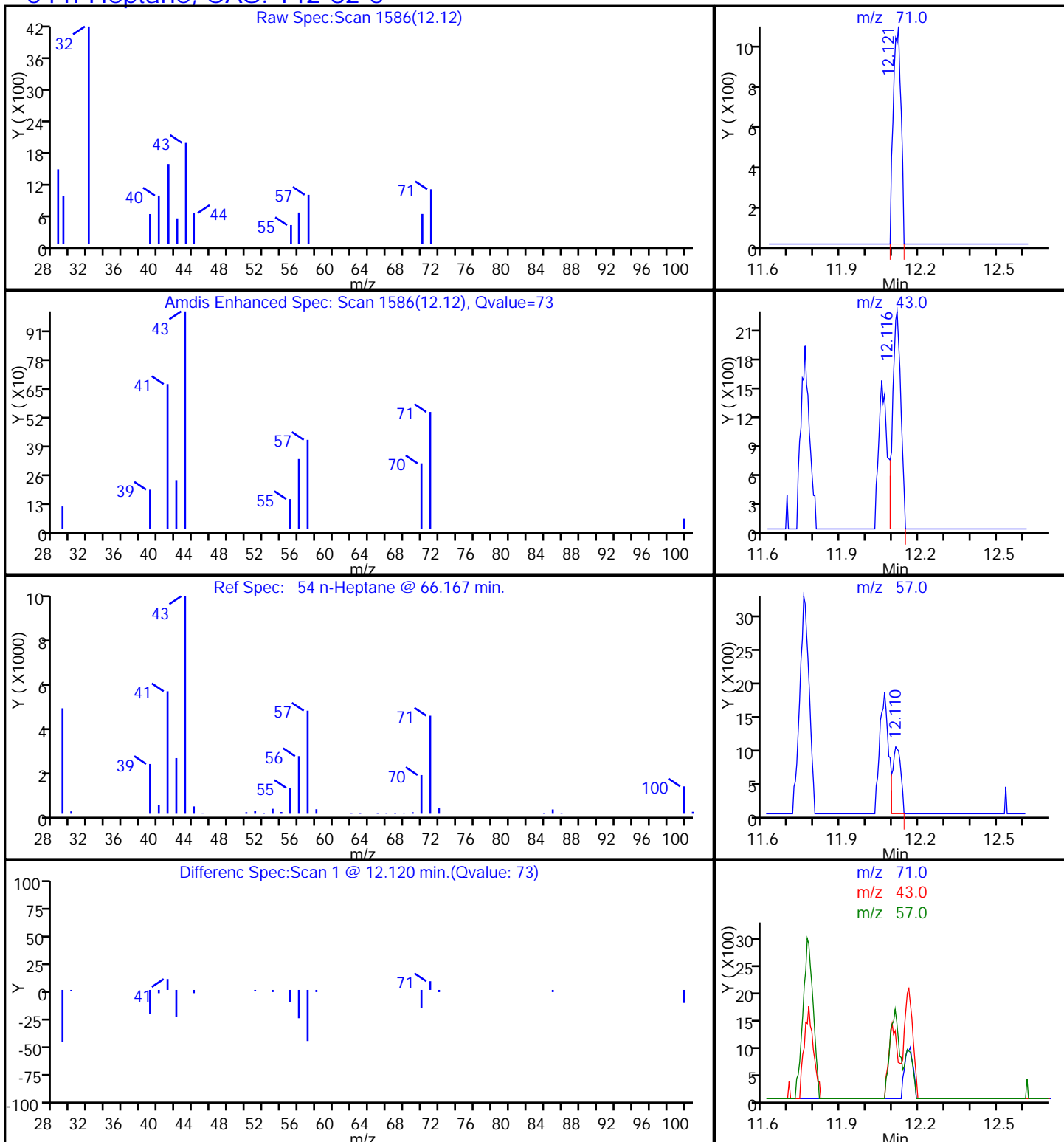
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

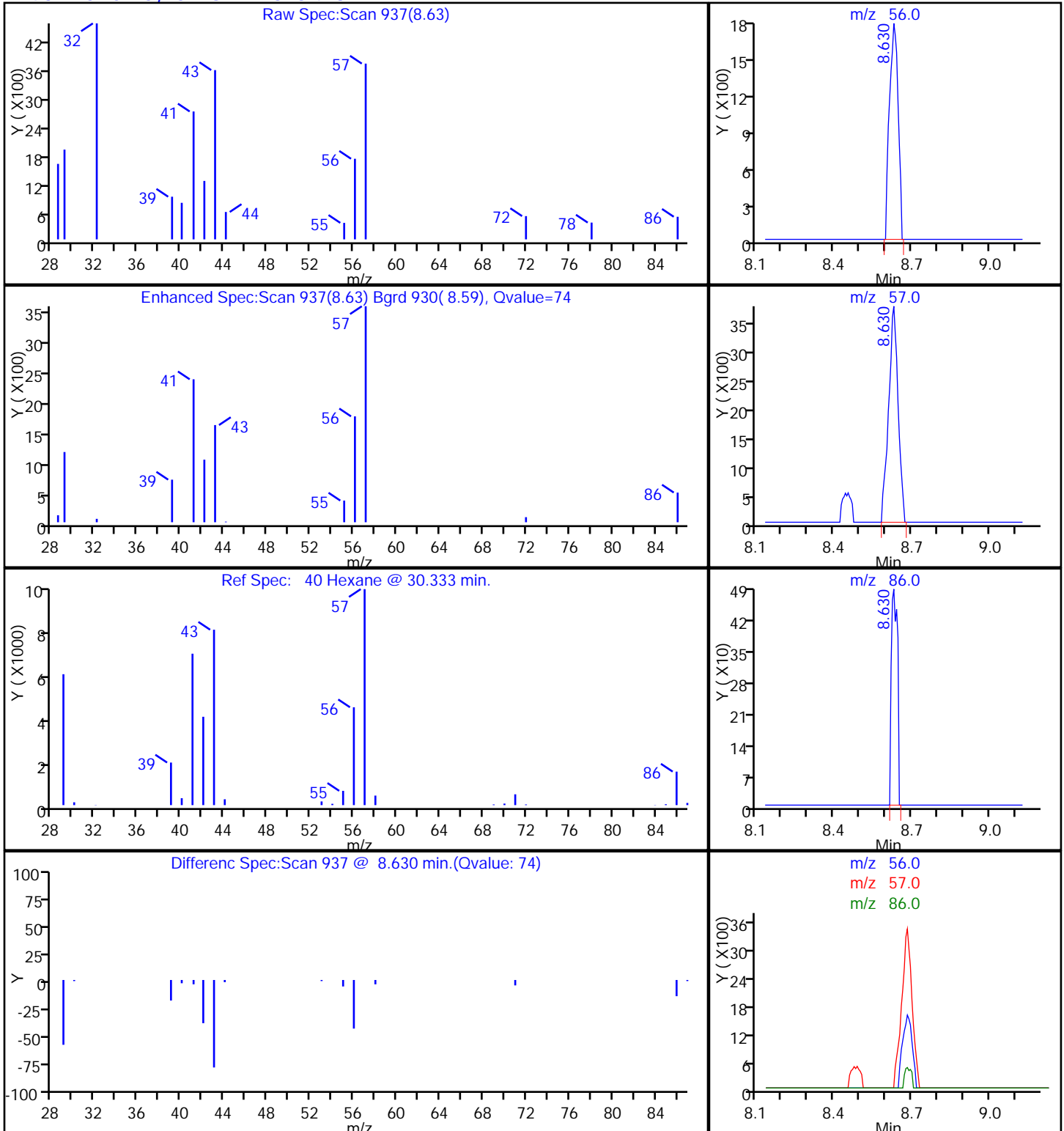
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

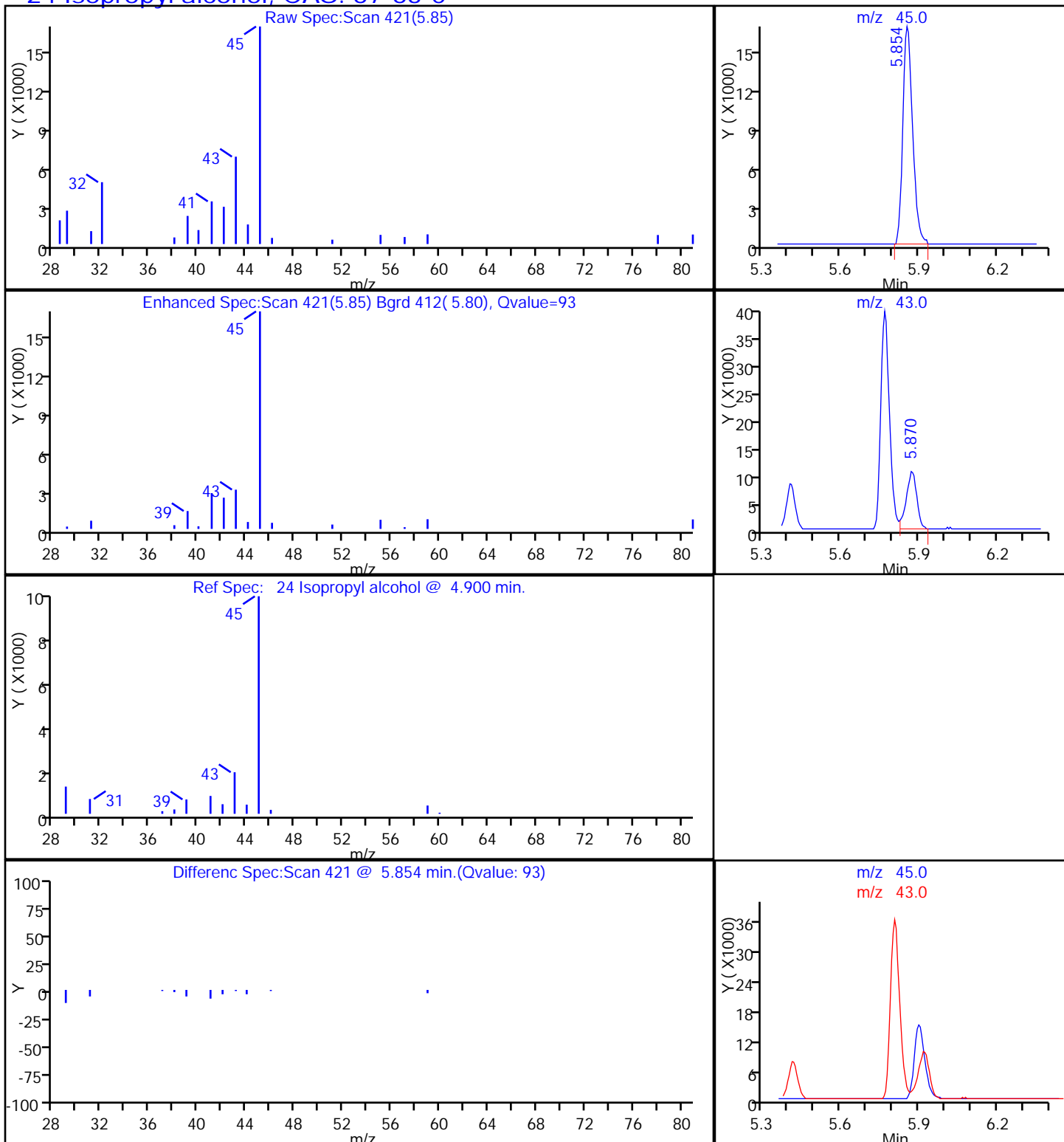
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

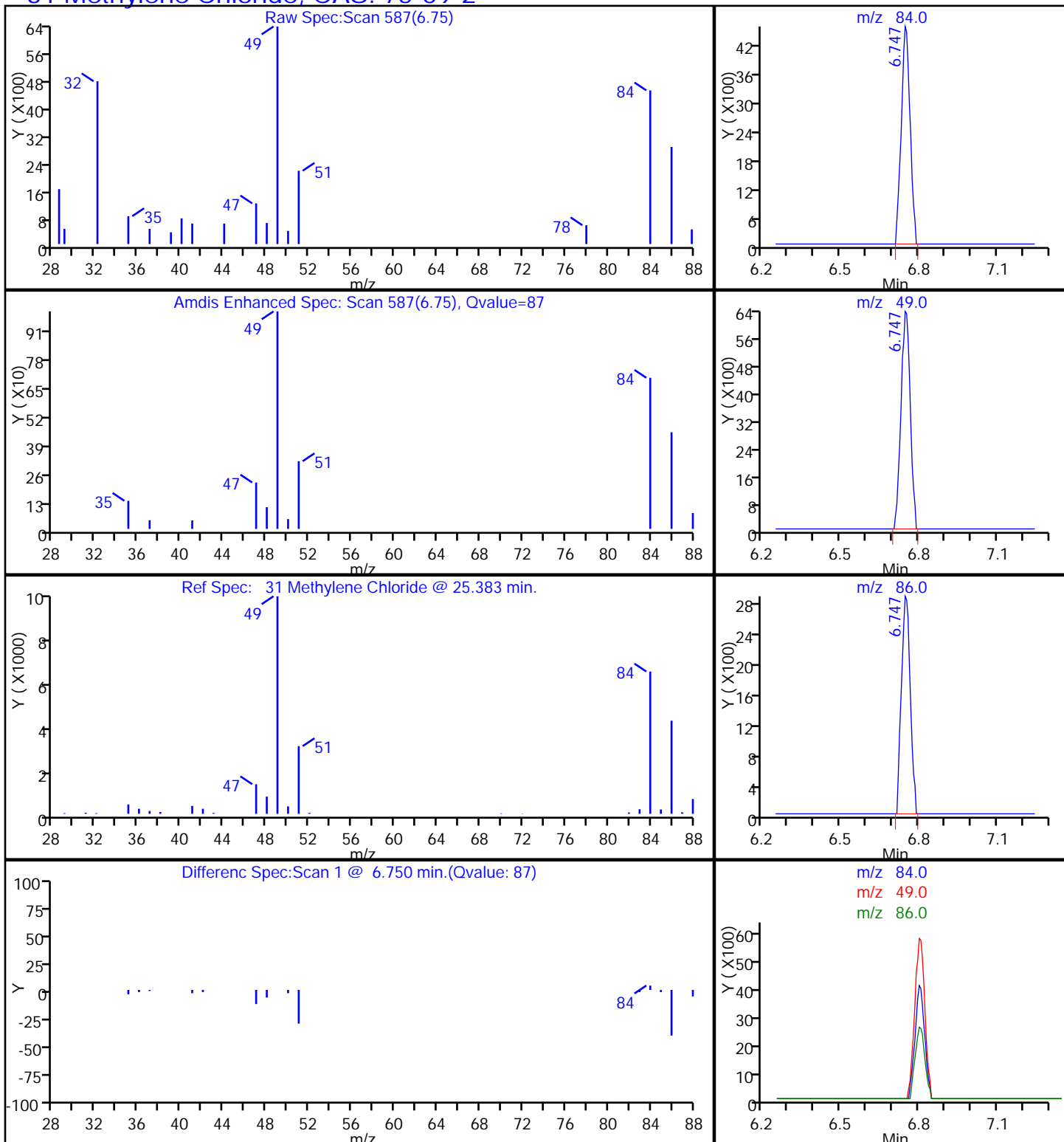
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

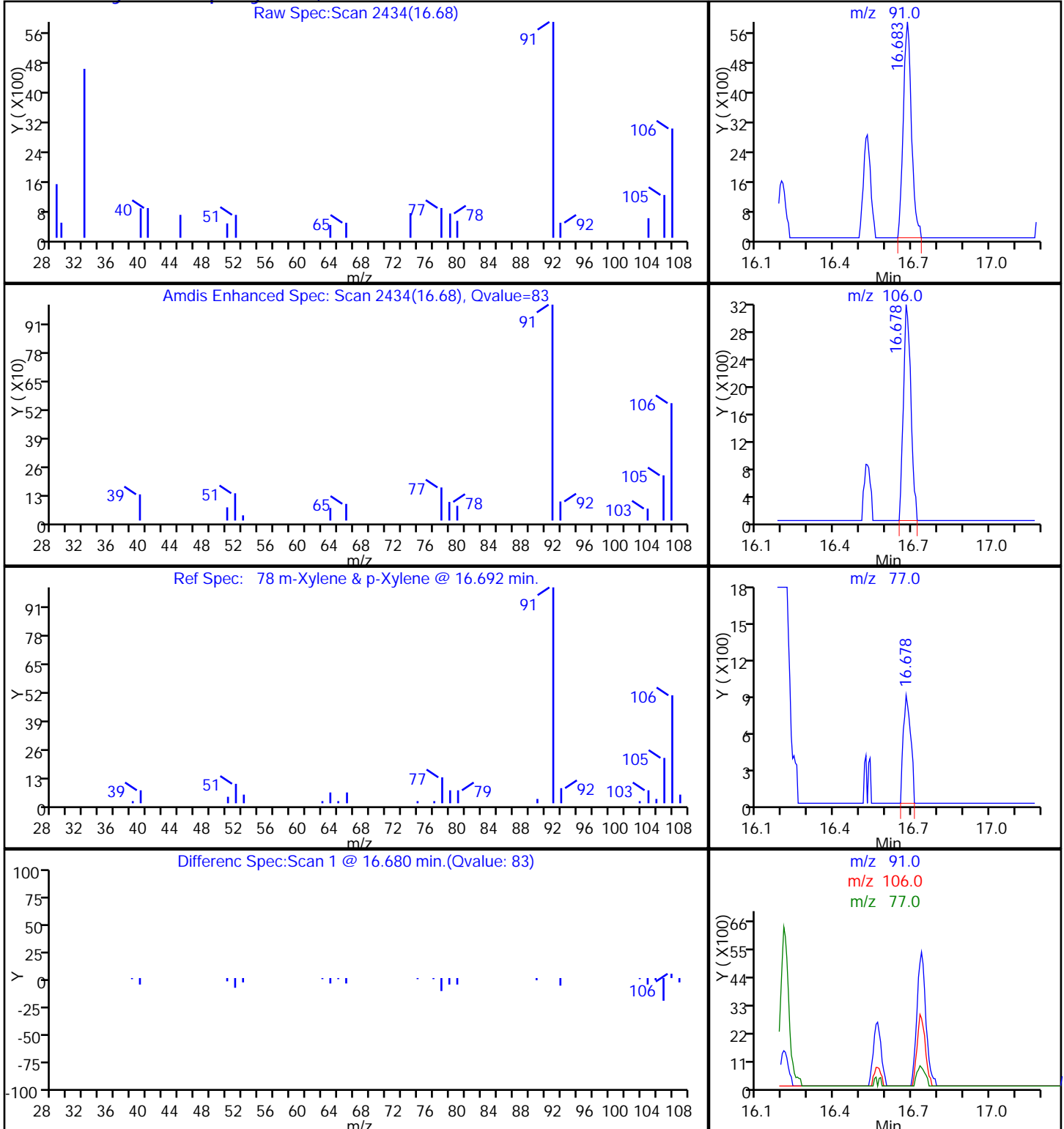
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

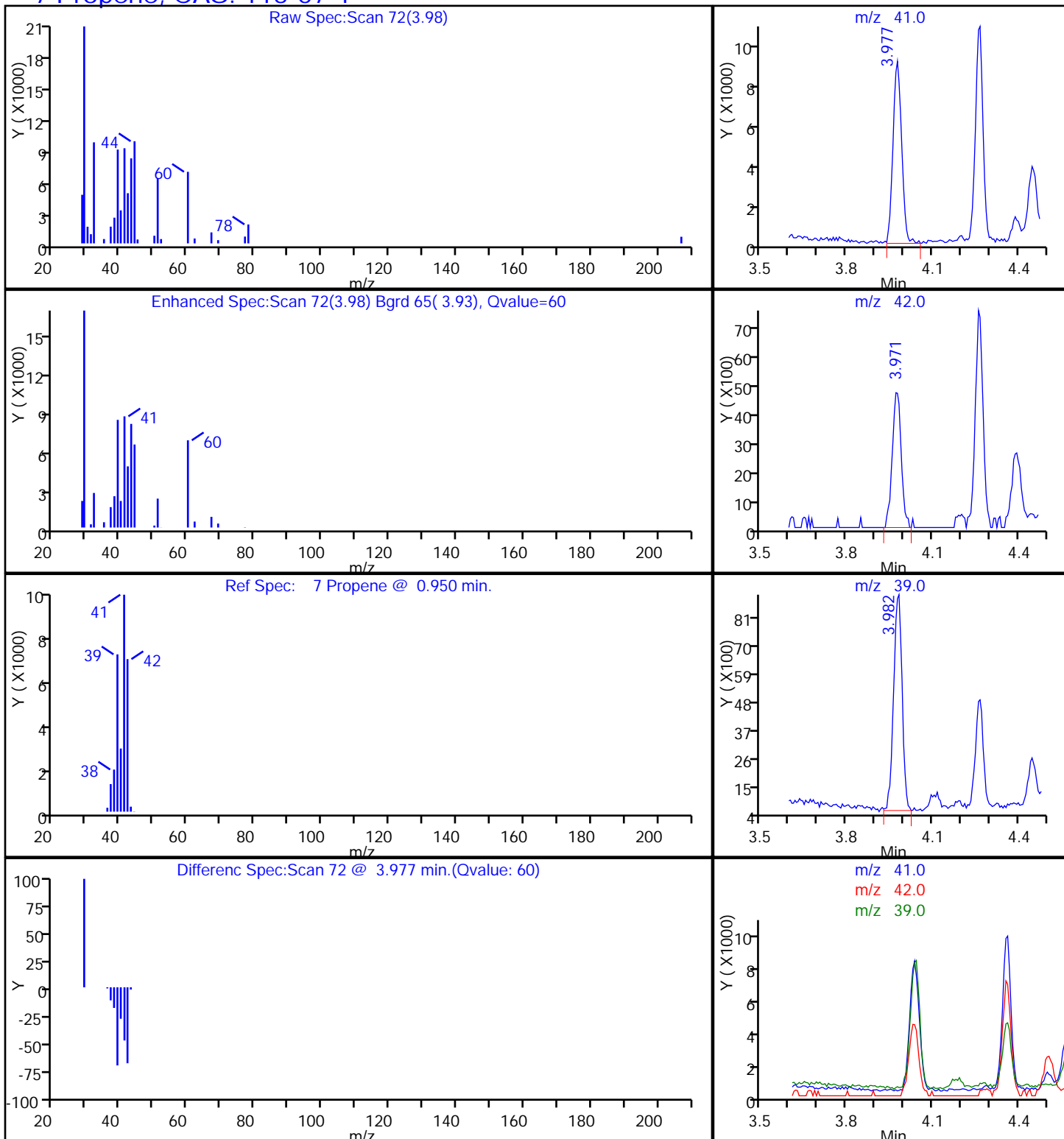
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

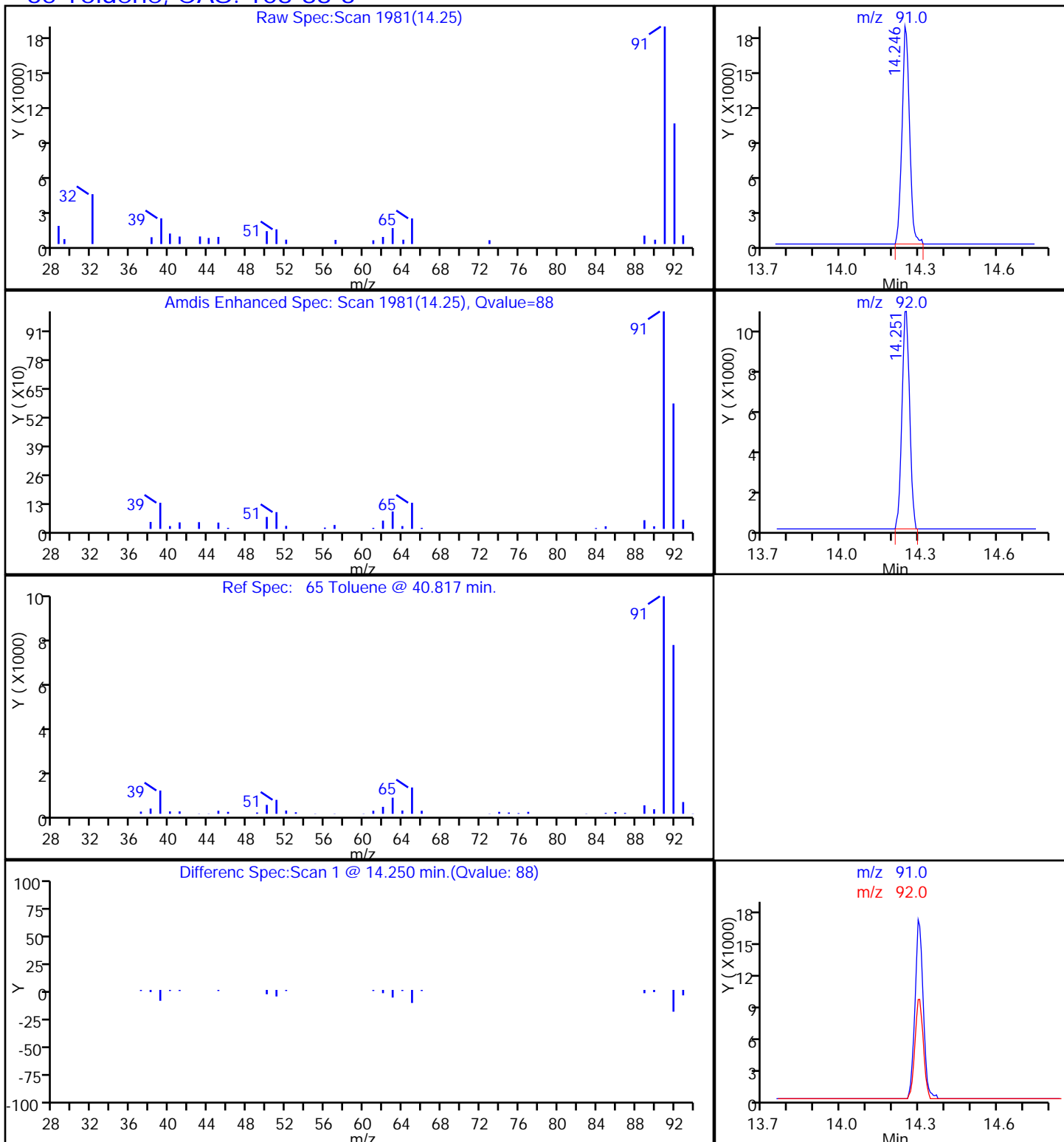
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P105.D

Injection Date: 19-Mar-2014 20:25:30

Instrument ID: MJ

Lims ID: 140-1063-A-20

Lab Sample ID: 140-1063-20

Client ID: AMB-3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

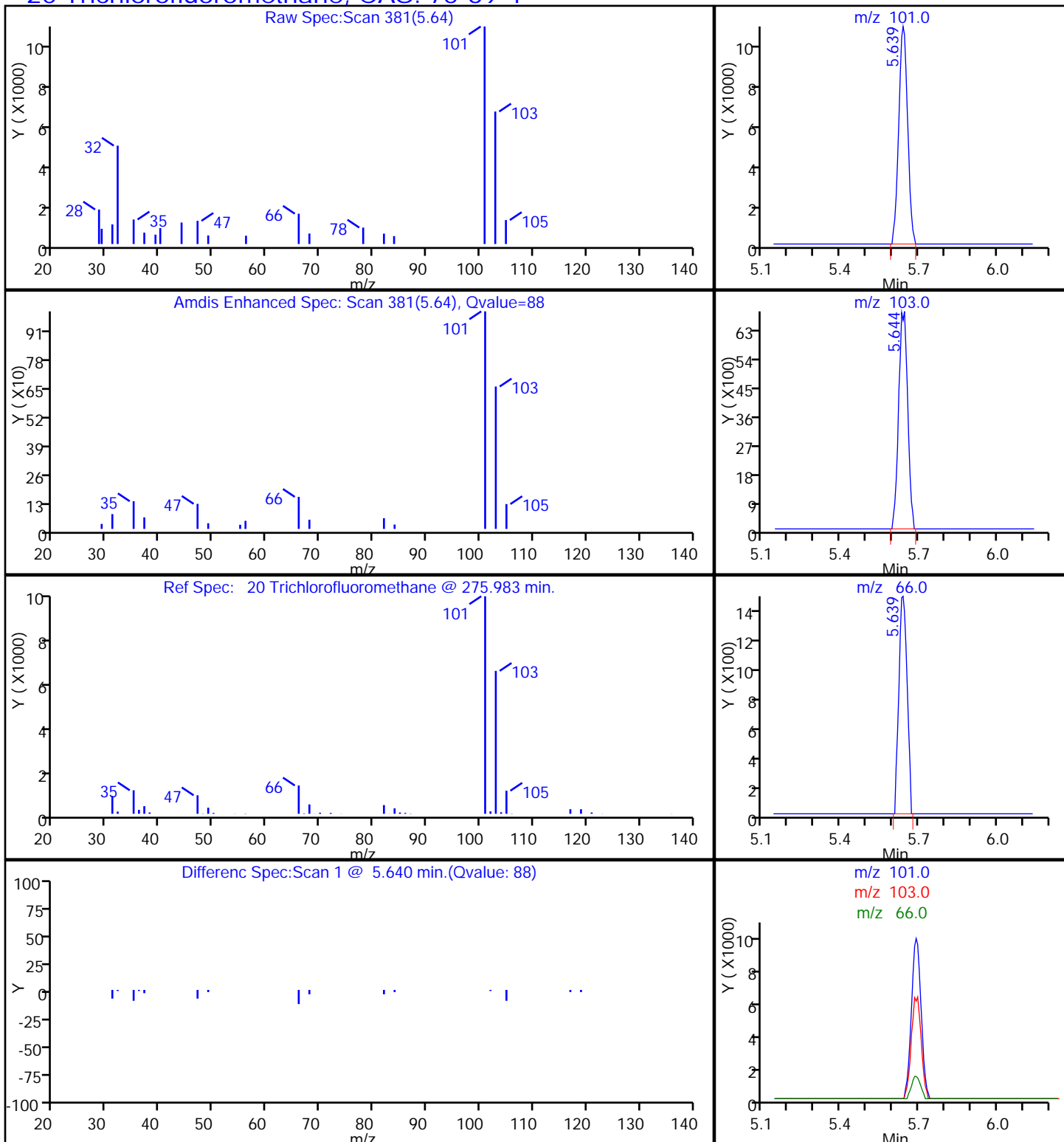
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21
 Matrix: Air Lab File ID: JC19P106.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:18
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.067	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.088	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.25		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.083	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.44	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.74		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.27	J	0.50	0.045
67-64-1	Acetone	58.08	4.0	J	5.0	1.4
71-43-2	Benzene	78.11	0.28		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21
 Matrix: Air Lab File ID: JC19P106.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:18
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.072	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	0.11	J	0.20	0.035
67-66-3	Chloroform	119.38	0.55		0.20	0.038
74-87-3	Chloromethane	50.49	0.54		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	50		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.092	J	0.20	0.068
142-82-5	Heptane	100.21	0.098	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	2.1		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.27	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.28		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.11	J	0.20	0.061
115-07-1	Propene	42.08	1.0	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.075	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.57		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21
 Matrix: Air Lab File ID: JC19P106.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:18
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21
 Matrix: Air Lab File ID: JC19P106.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:18
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.43	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	1.5		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.39	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.2		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.1	J	2.0	0.18
67-64-1	Acetone	58.08	9.4	J	12	3.3
71-43-2	Benzene	78.11	0.89		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21
 Matrix: Air Lab File ID: JC19P106.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:18
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.45	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	0.30	J	0.53	0.092
67-66-3	Chloroform	119.38	2.7		0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	95		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.40	J	0.87	0.30
142-82-5	Heptane	100.21	0.40	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.49	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	5.1		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.95	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.49	J	0.87	0.26
115-07-1	Propene	42.08	1.7	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.51	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E19 Lab Sample ID: 140-1063-21
 Matrix: Air Lab File ID: JC19P106.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:18
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D
 Lims ID: 140-1063-A-21 Lab Sample ID: 140-1063-21
 Client ID: IA1-E19
 Sample Type: Client
 Inject. Date: 19-Mar-2014 21:18:30 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-21
 Misc. Info.: J031914,TO15,,140-0000532-012
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:50:30 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:44:59

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	93	347239	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.542	-0.009	94	1642012	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.201	-0.004	86	1317082	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.820	-0.004	90	881203	3.78	
7 Propene	41	3.980	3.973	0.007	94	42684	0.4009	
8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	96	61065	0.1775	
9 Chloromethane	52	4.228	4.231	-0.003	98	8484	0.2171	
16 Chloroethane	64	5.013	5.022	-0.009	60	2666	0.0450	
17 Ethanol	31	5.115	5.119	-0.004	95	560696	20.1	
19 2-Methylbutane	43	5.406	5.409	-0.003	92	43547	0.2953	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	87	26418	0.0874	
23 Acetone	58	5.766	5.770	-0.004	94	78063	1.58	
24 Isopropyl alcohol	45	5.852	5.850	0.002	94	107126	0.8219	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.584	6.582	0.002	60	5622	0.0269	
31 Methylene Chloride	84	6.751	6.754	-0.003	83	10196	0.1098	
39 2-Butanone (MEK)	72	8.596	8.589	0.007	97	5769	0.1755	
40 Hexane	56	8.634	8.637	-0.003	65	5225	0.0560	
43 Chloroform	83	9.387	9.396	-0.009	75	44710	0.2210	
48 Benzene	78	11.017	11.026	-0.009	90	31389	0.1114	
50 Carbon tetrachloride	117	11.049	11.047	0.002	84	6682	0.0287	
53 Isooctane	57	11.754	11.763	-0.009	81	15994	0.0332	
54 n-Heptane	71	12.120	12.123	-0.003	80	3888	0.0390	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.371	0.002	86	18263	0.1061	
65 Toluene	91	14.250	14.253	-0.003	91	56036	0.2293	
73 Tetrachloroethene	129	15.379	15.383	-0.004	67	3419	0.0300	
76 Ethylbenzene	91	16.525	16.529	-0.004	51	9900	0.0367	
78 m-Xylene & p-Xylene	91	16.676	16.685	-0.009	92	24318	0.1117	
82 o-Xylene	91	17.209	17.212	-0.003	72	9863	0.0447	
93 1,2,4-Trimethylbenzene	105	18.941	18.939	0.002	63	8958	0.0350	
97 1,4-Dichlorobenzene	146	19.296	19.294	0.002	84	15595	0.0997	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Worklist Smp#: 12

Client ID: IA1-E19

Purge Vol: 500.000 mL

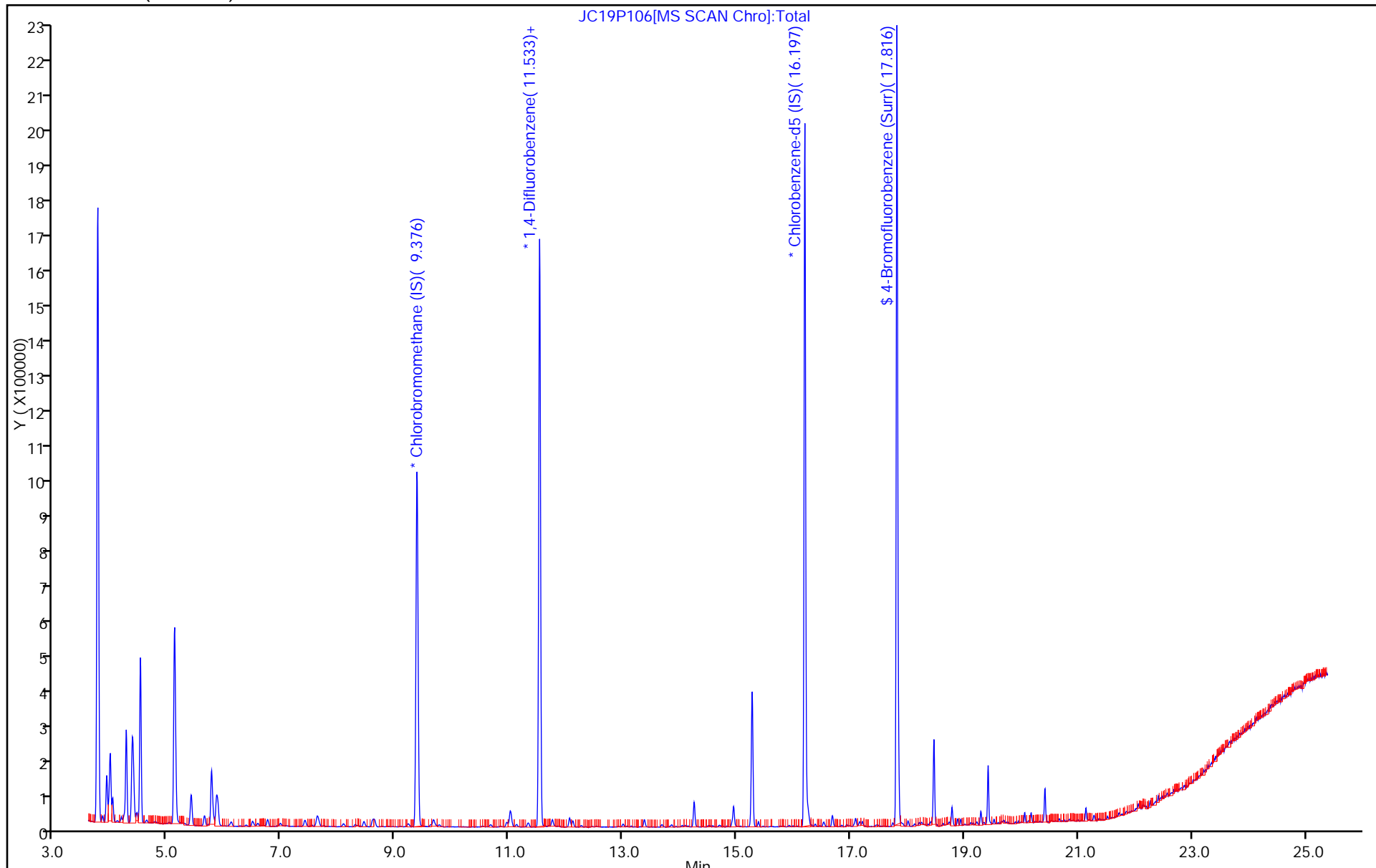
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

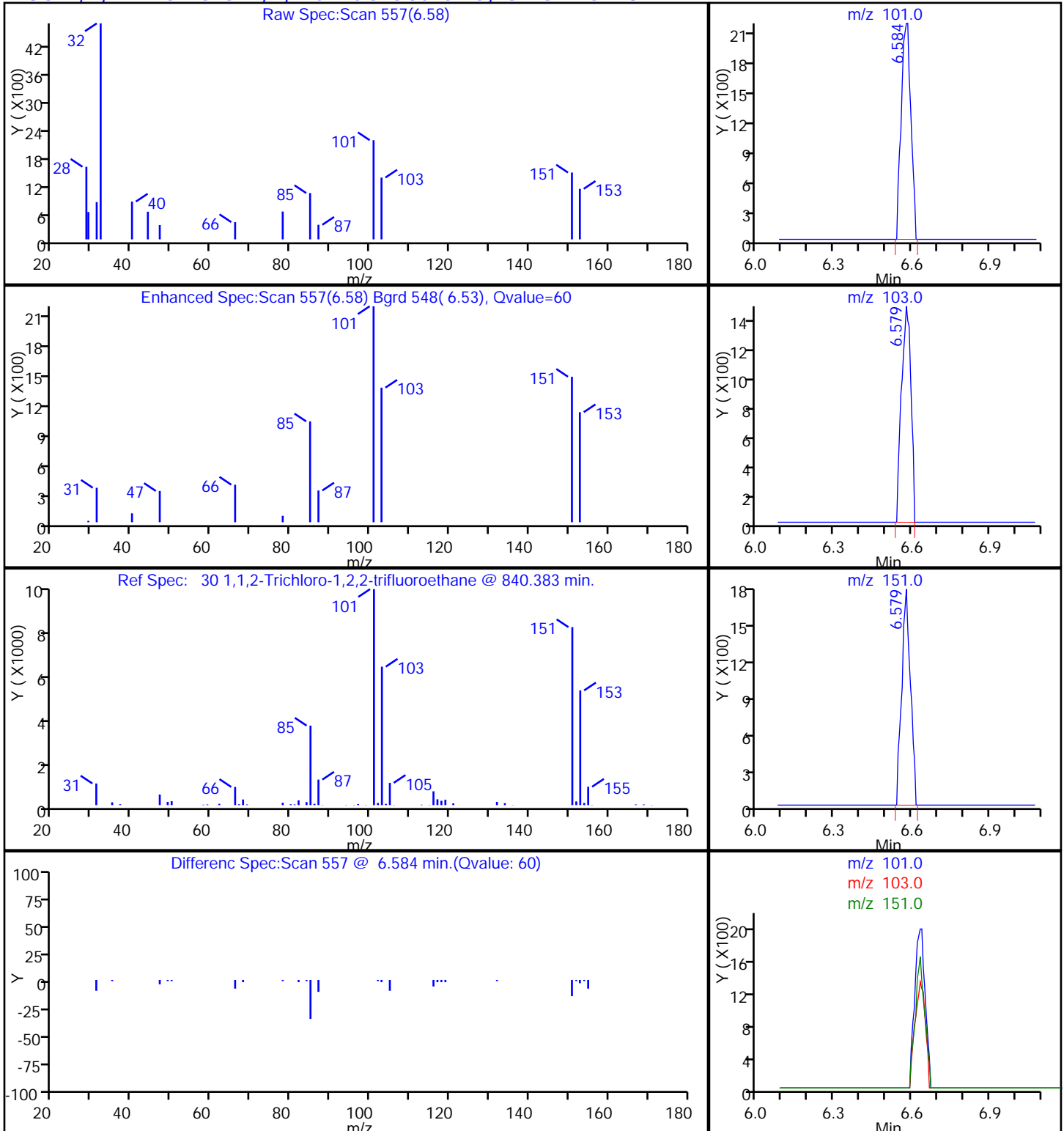
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

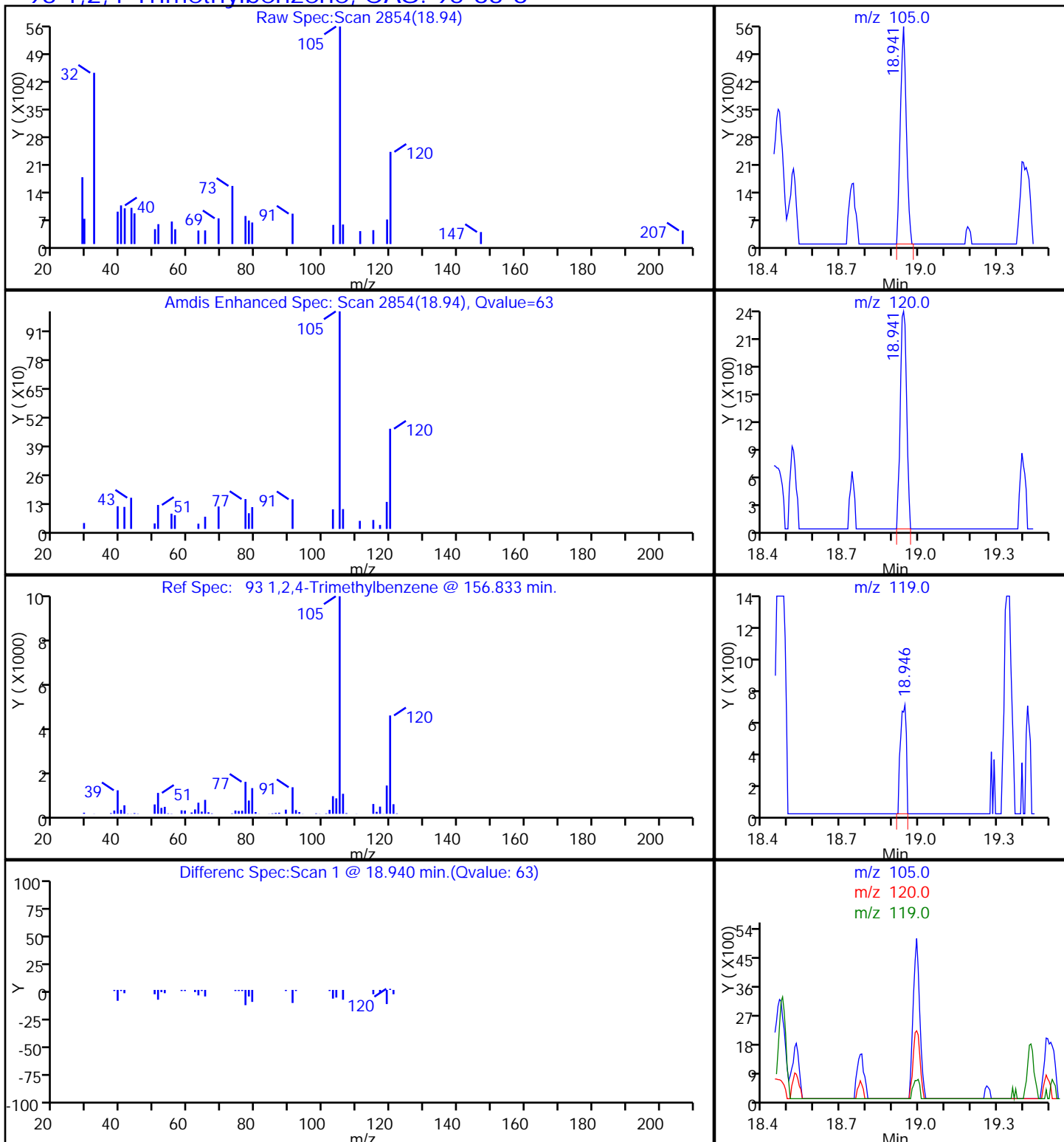
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

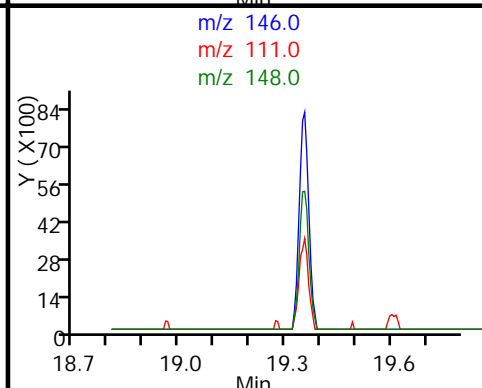
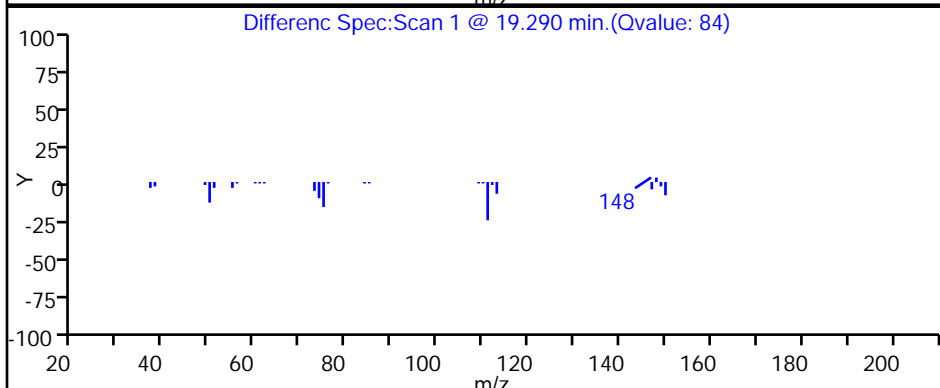
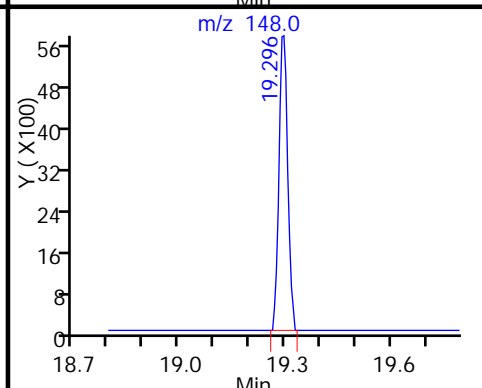
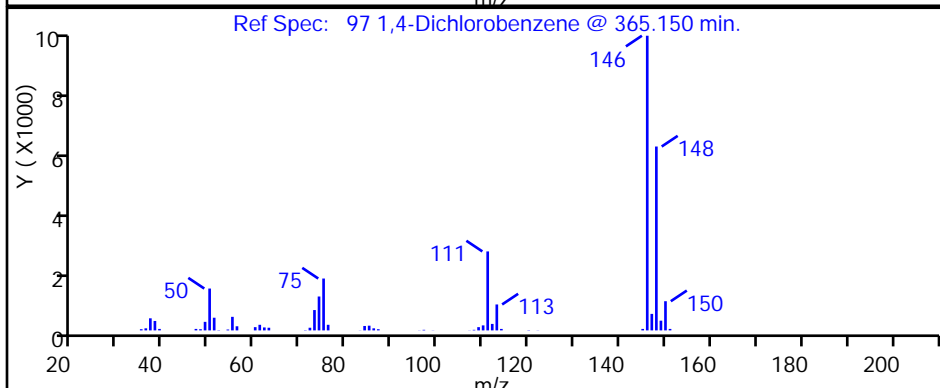
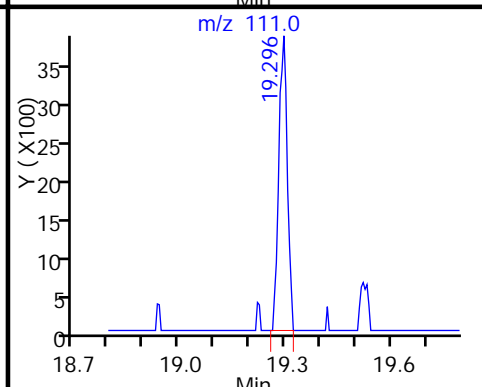
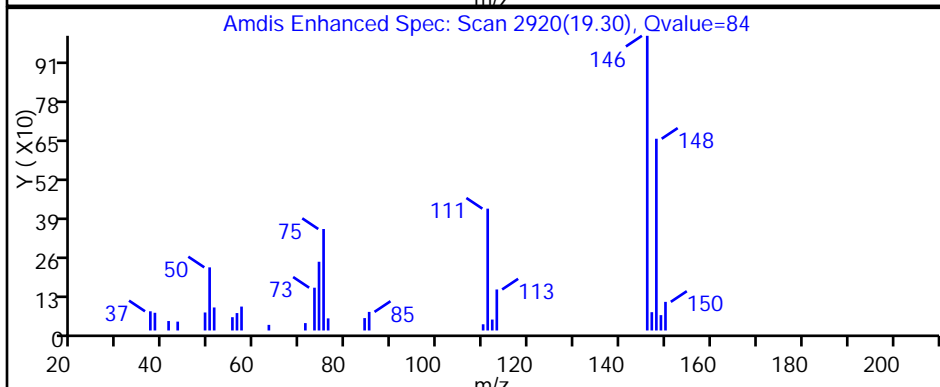
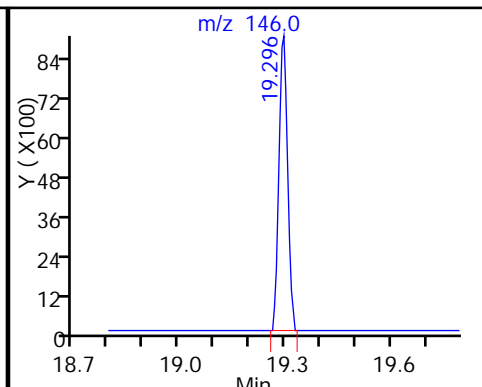
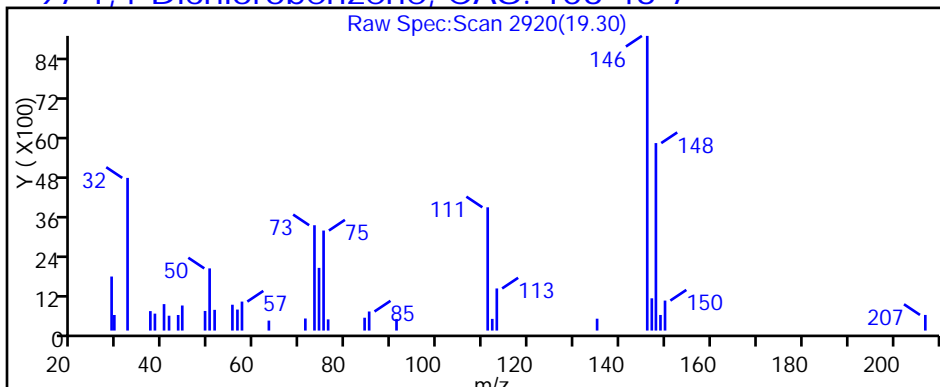
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

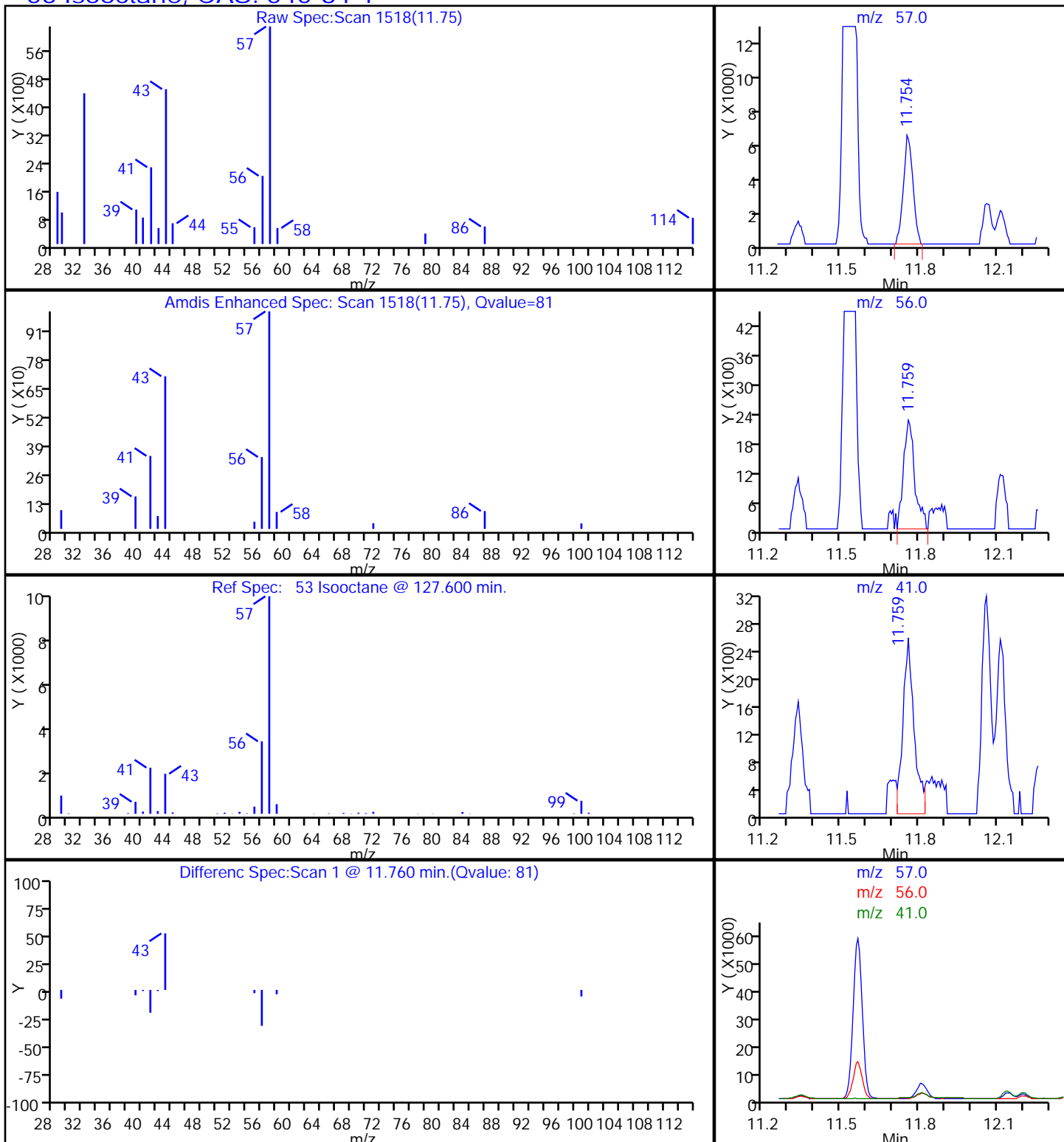
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

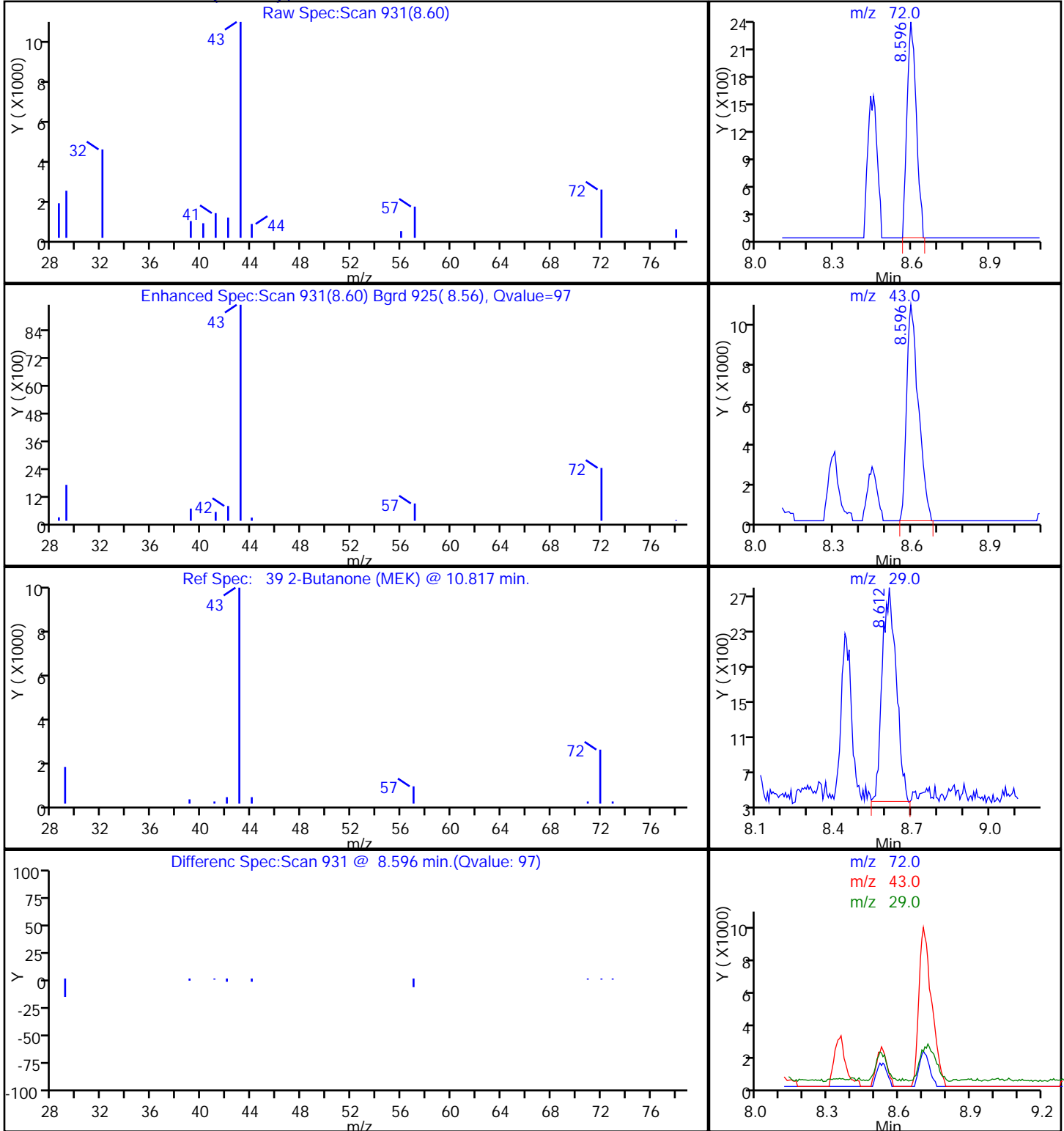
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

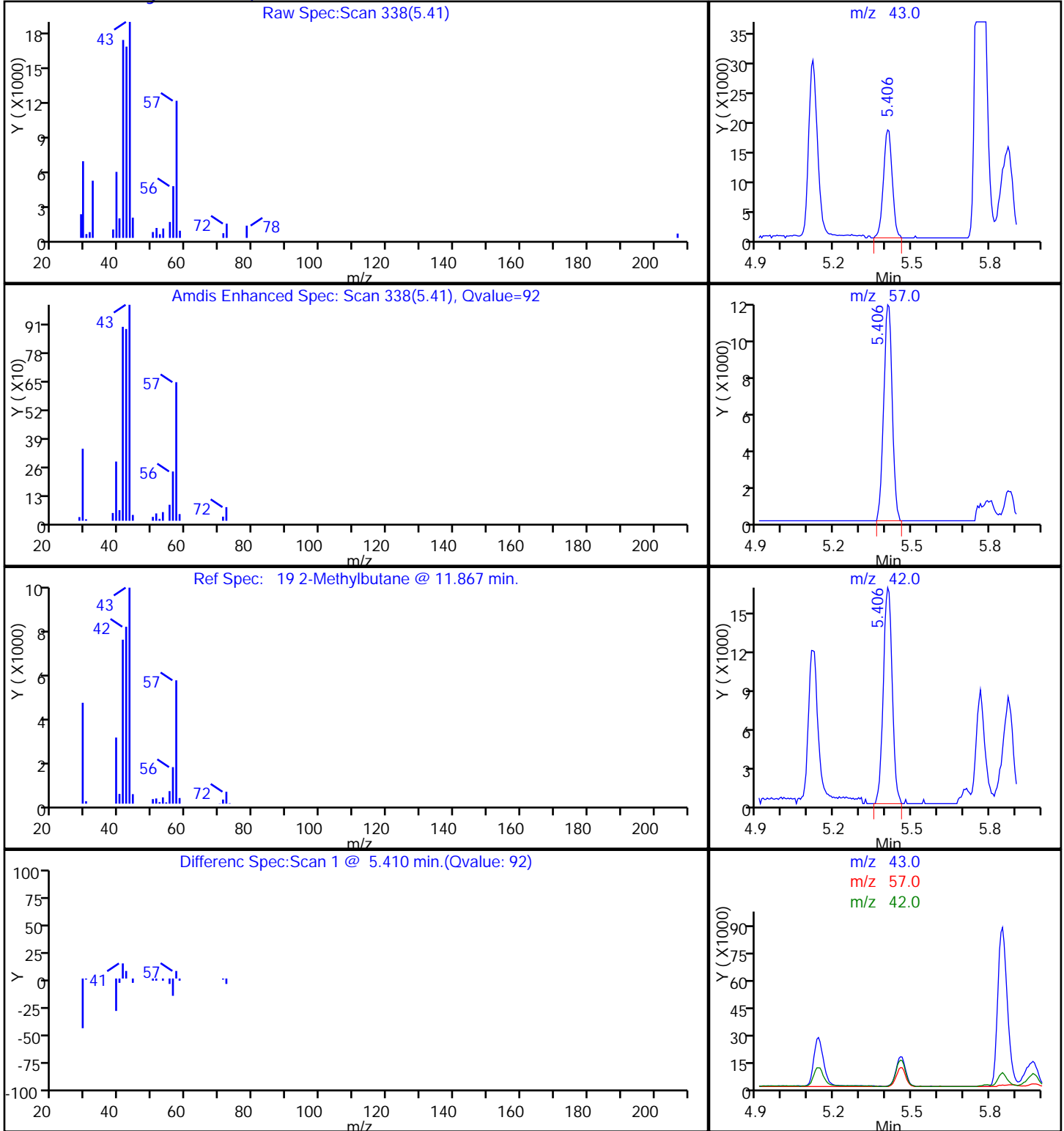
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

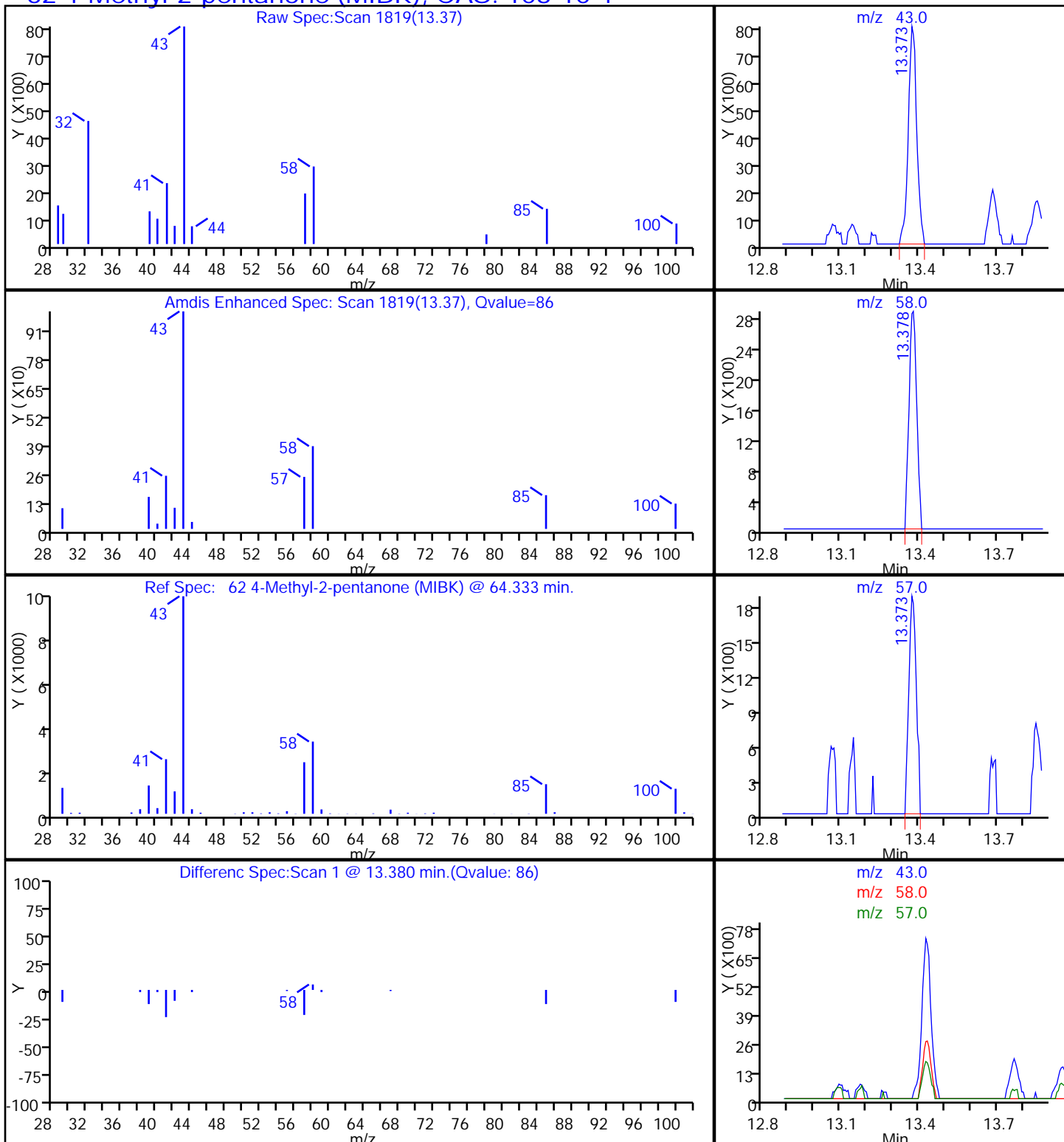
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

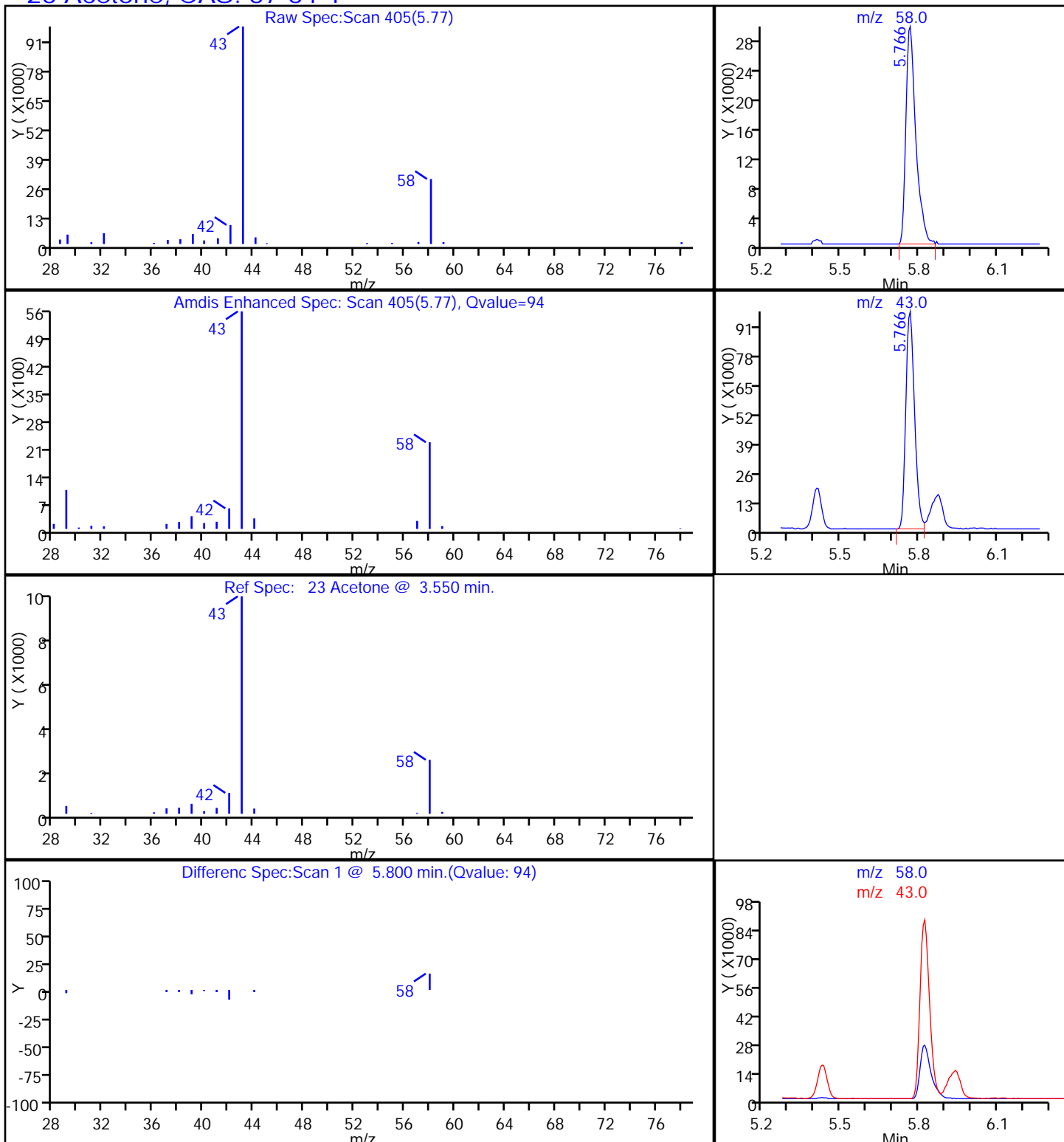
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

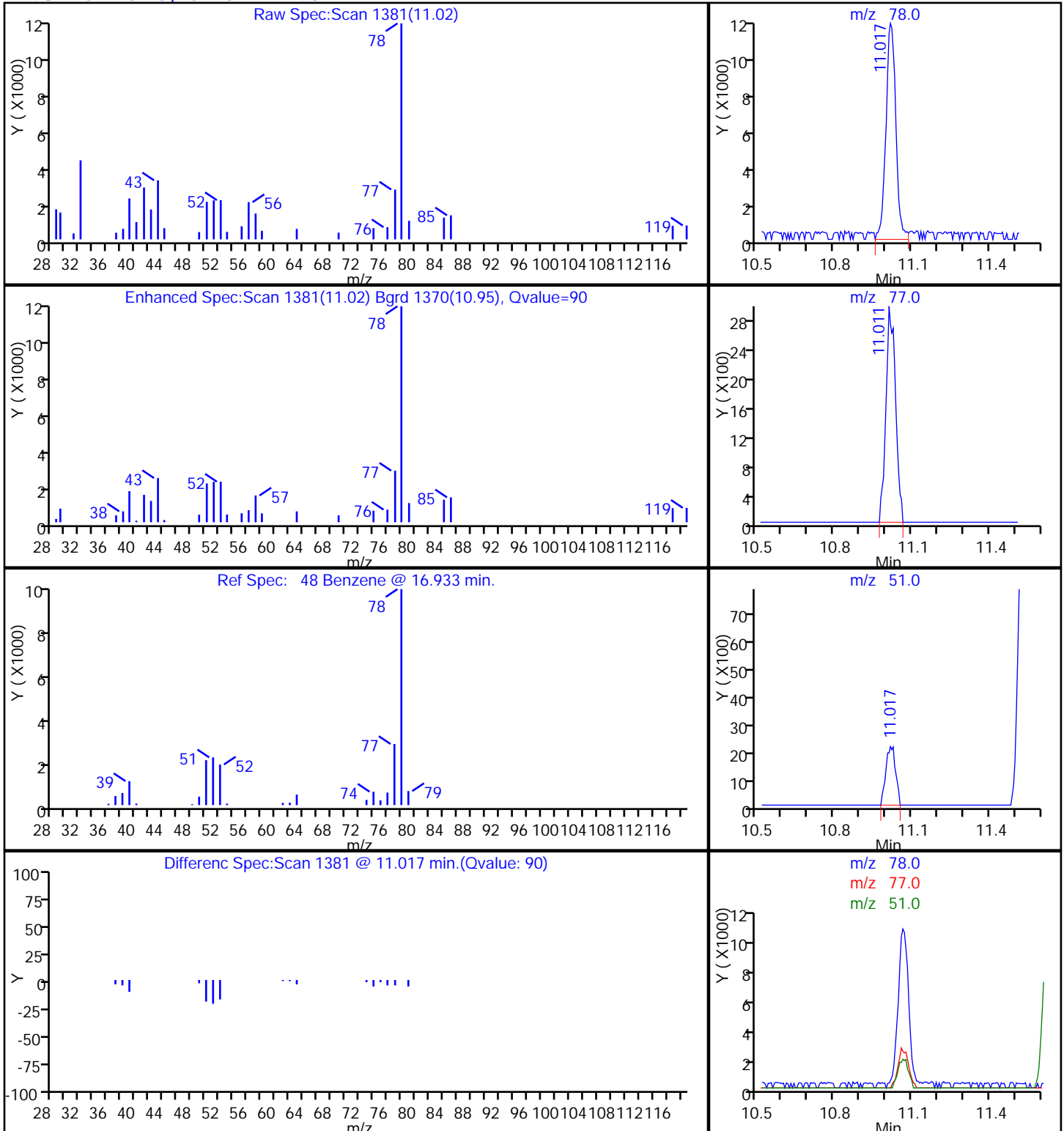
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

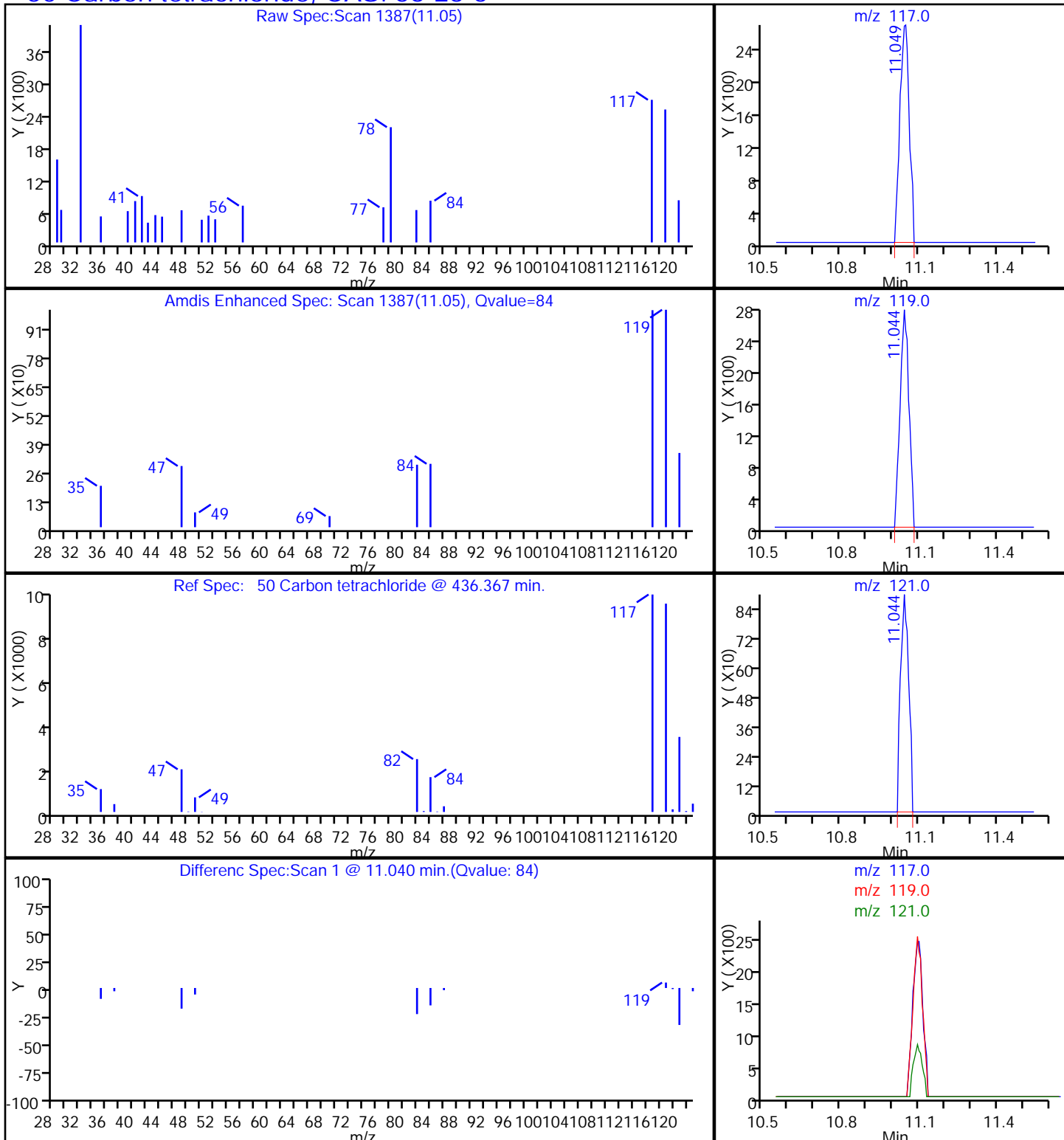
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

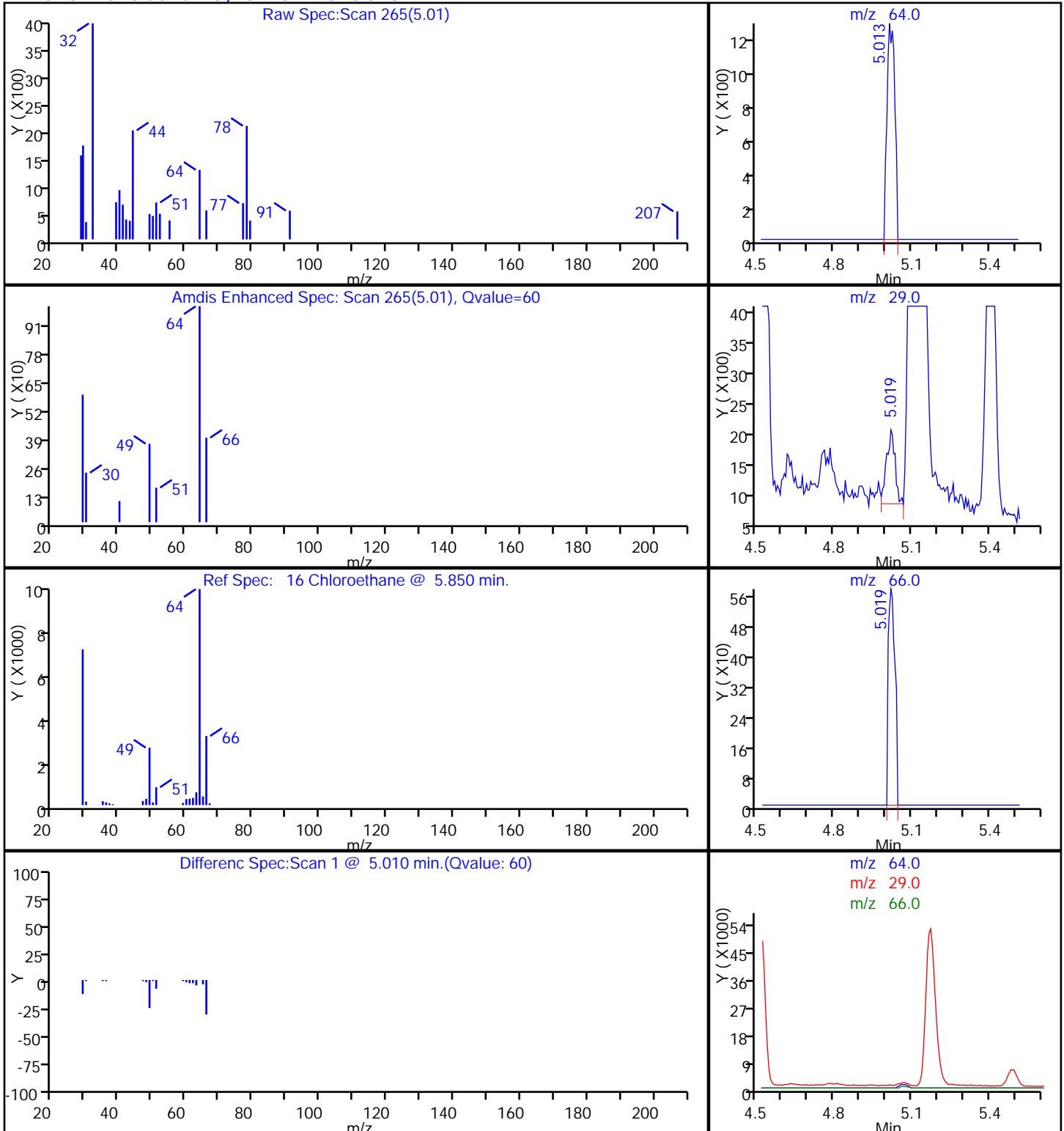
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

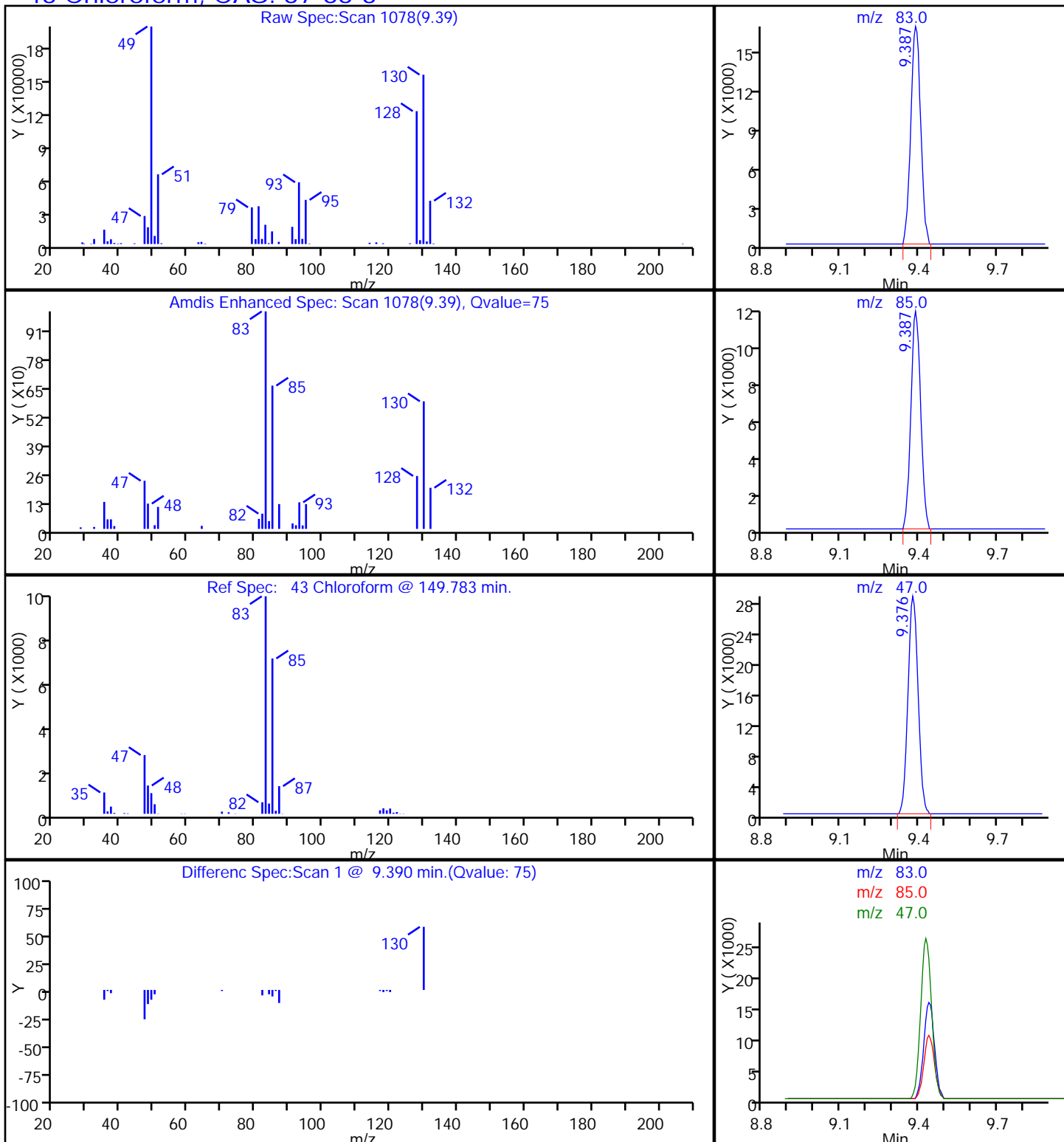
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

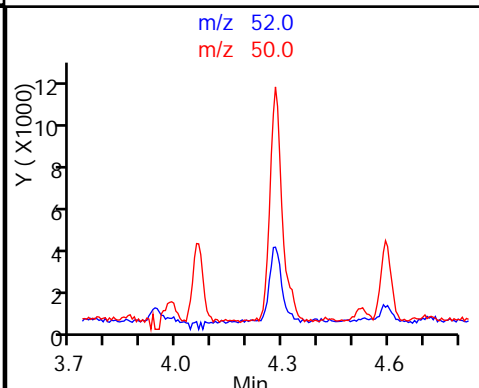
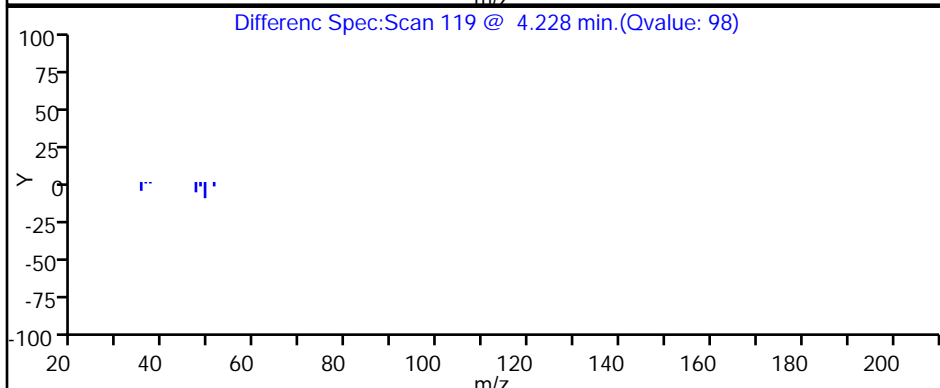
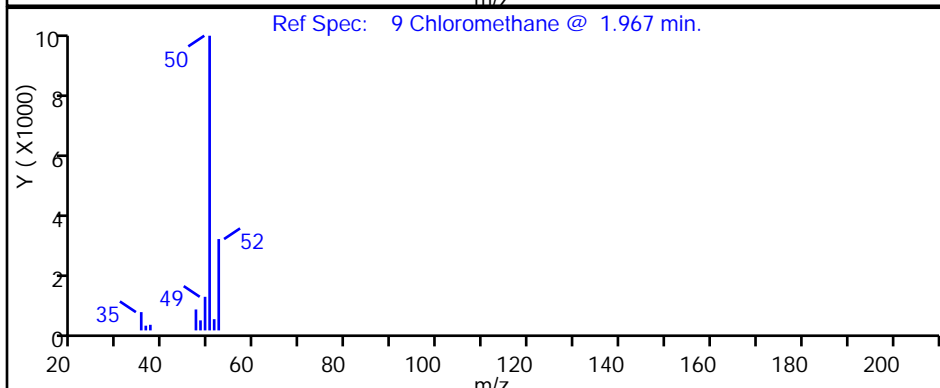
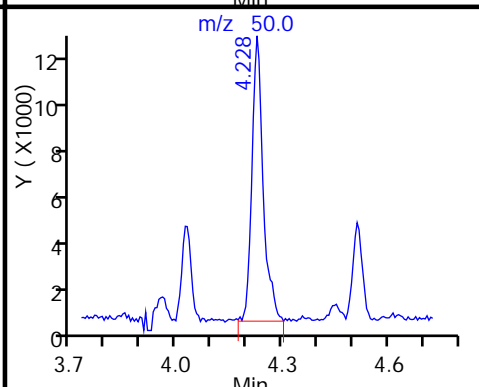
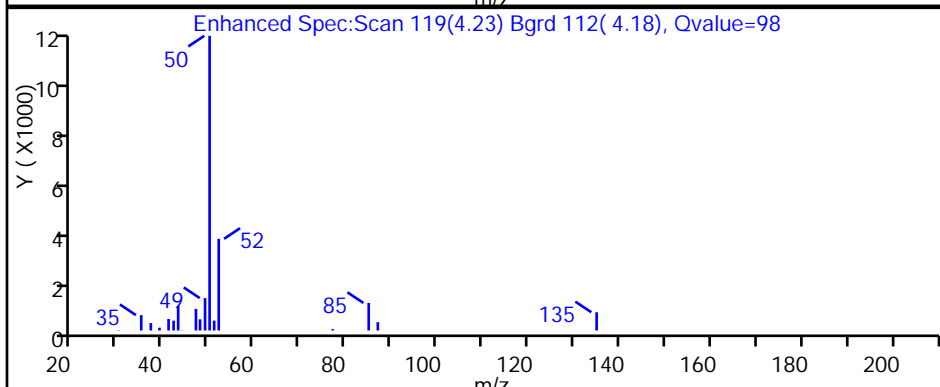
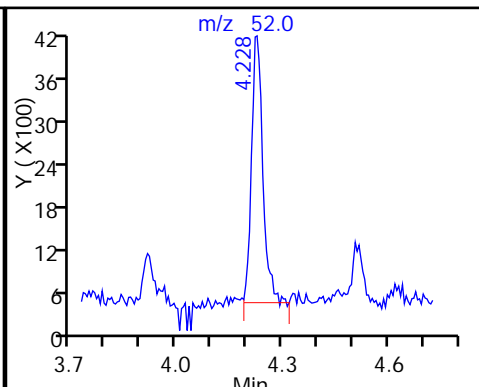
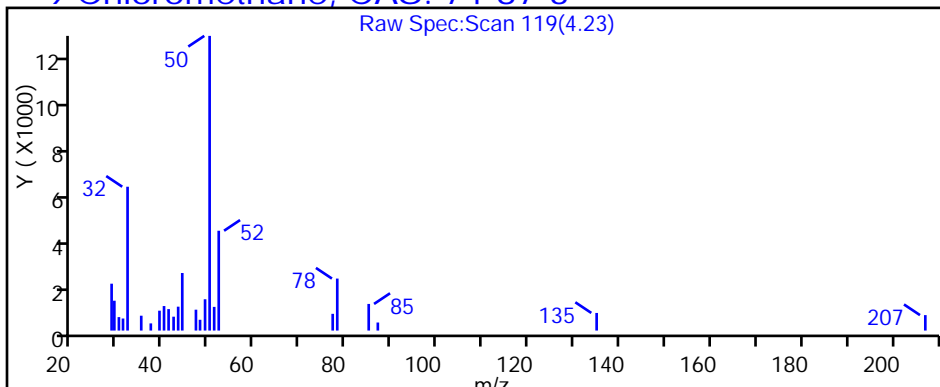
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

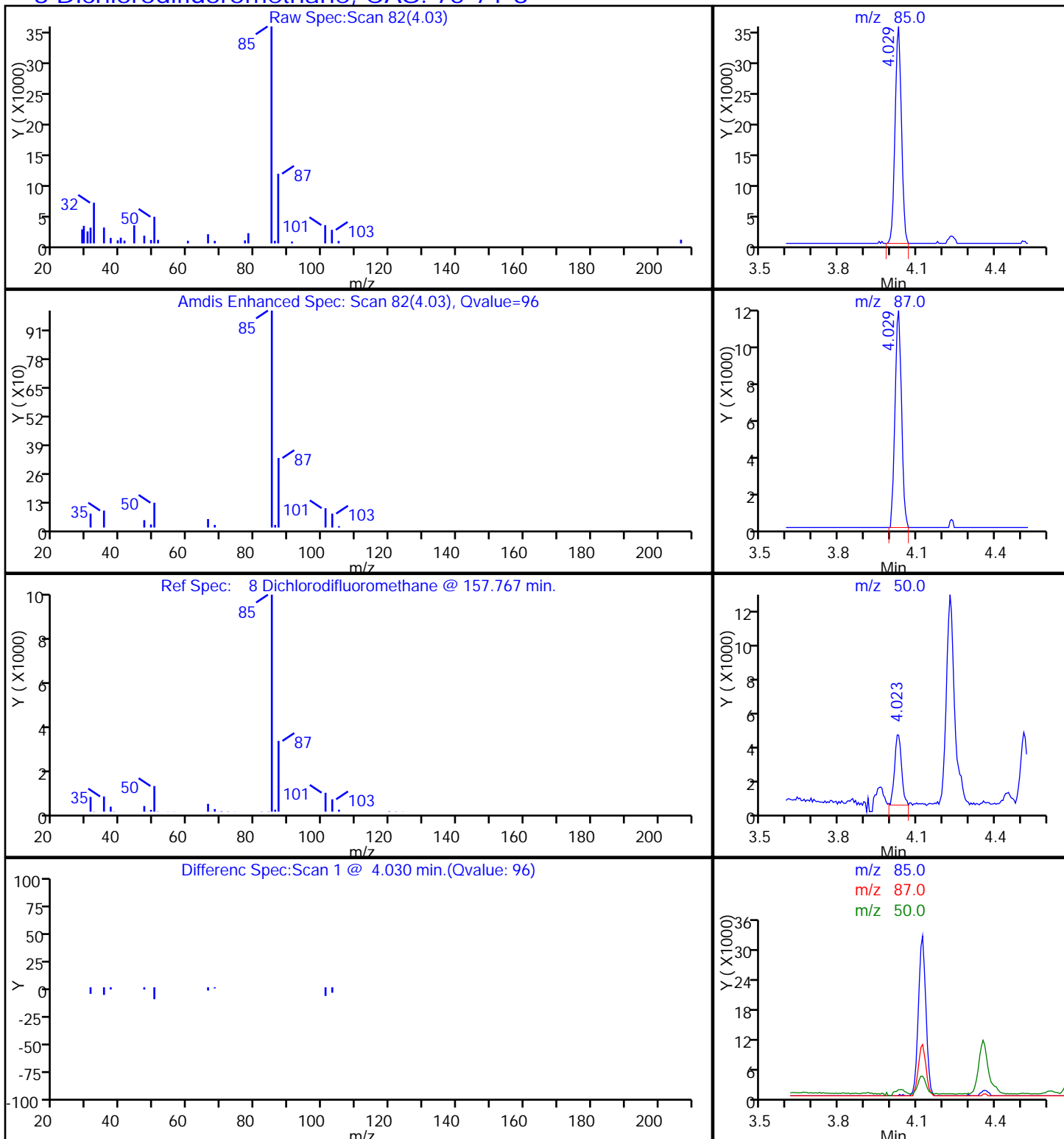
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

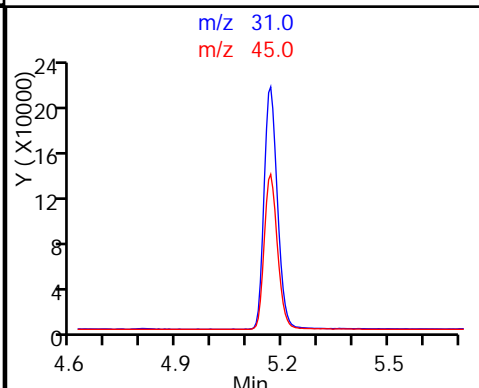
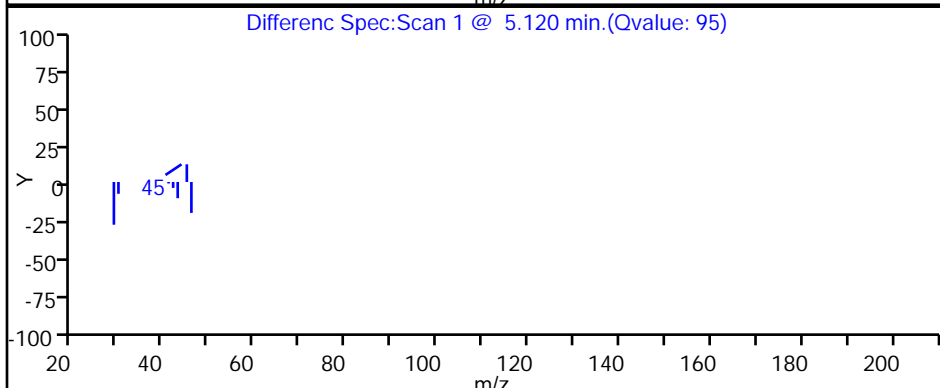
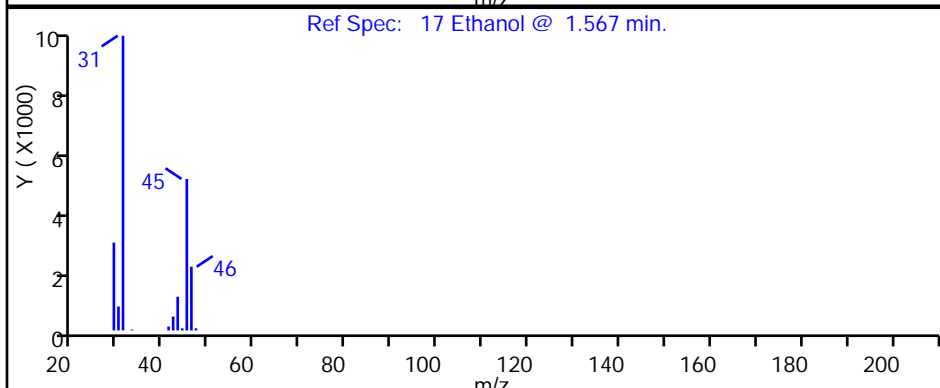
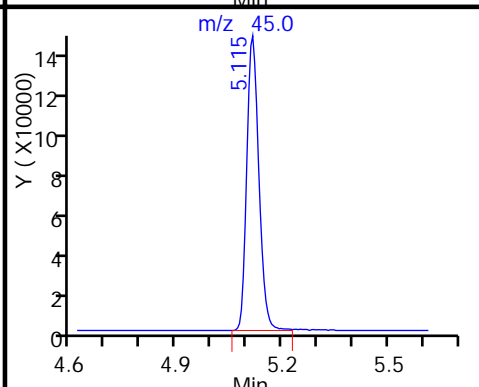
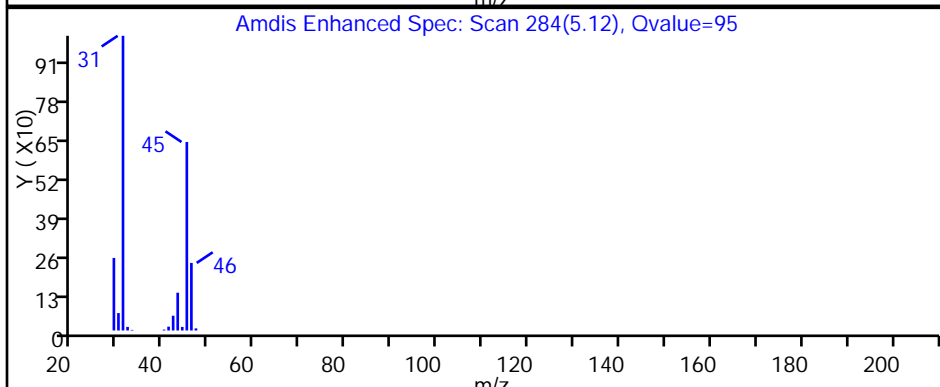
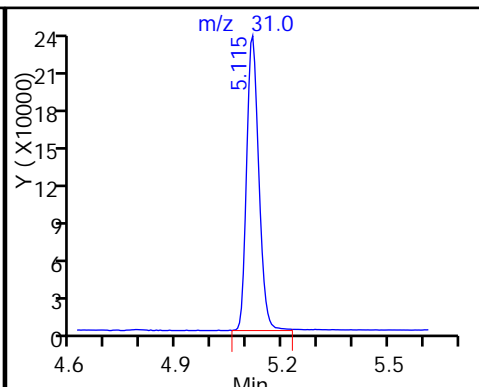
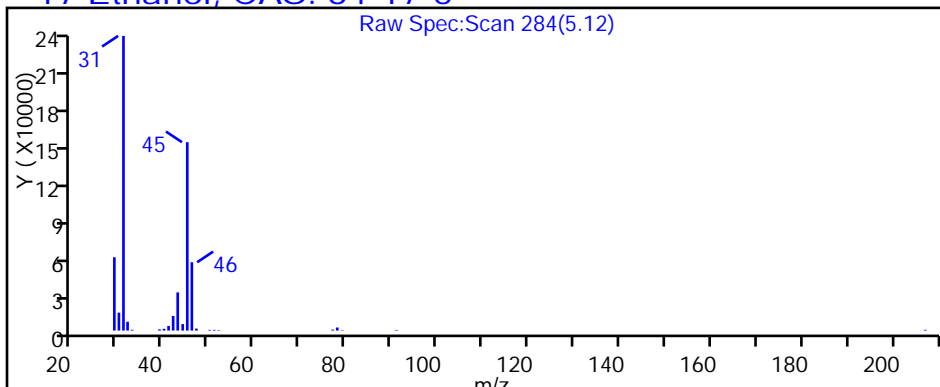
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

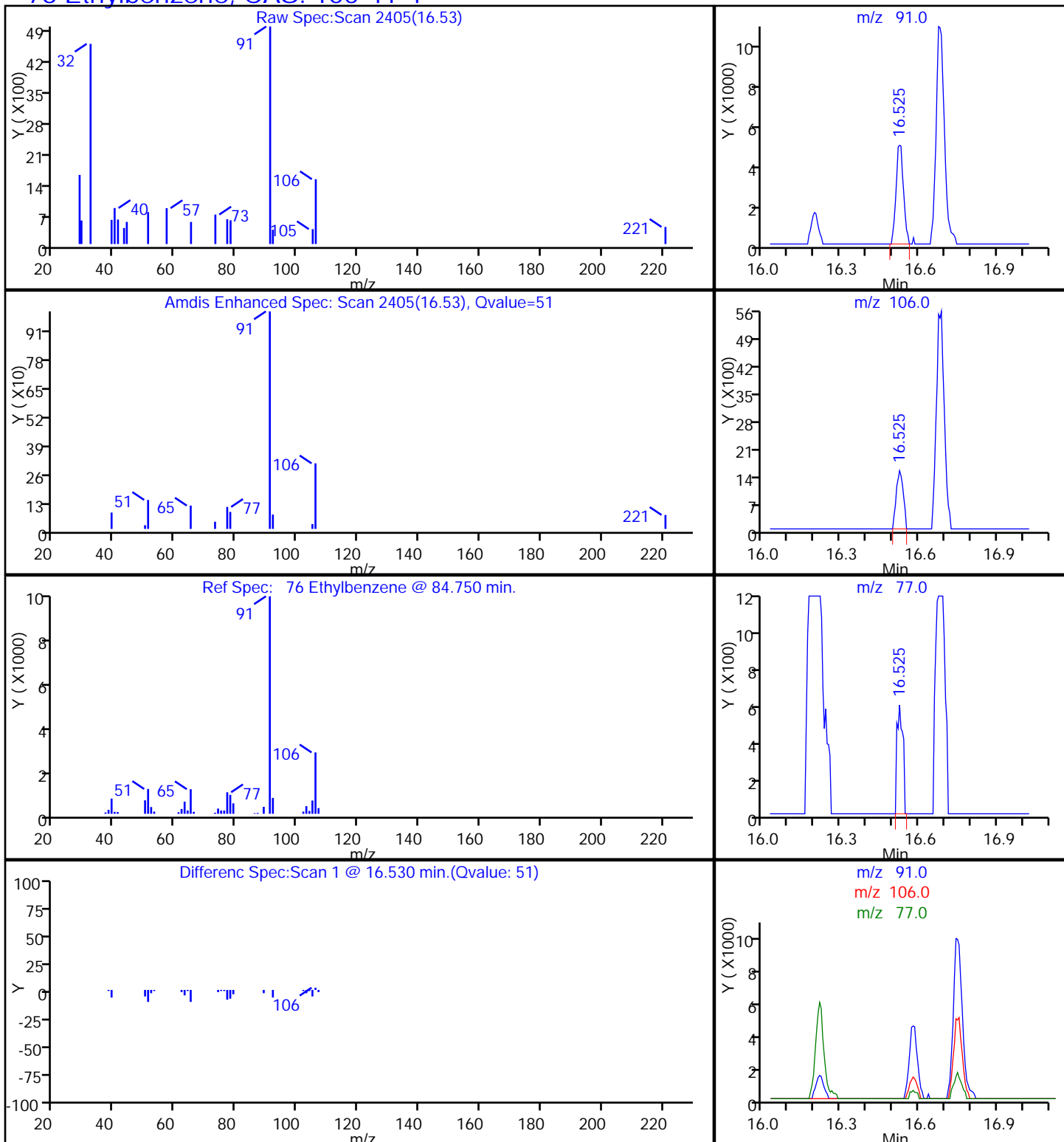
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

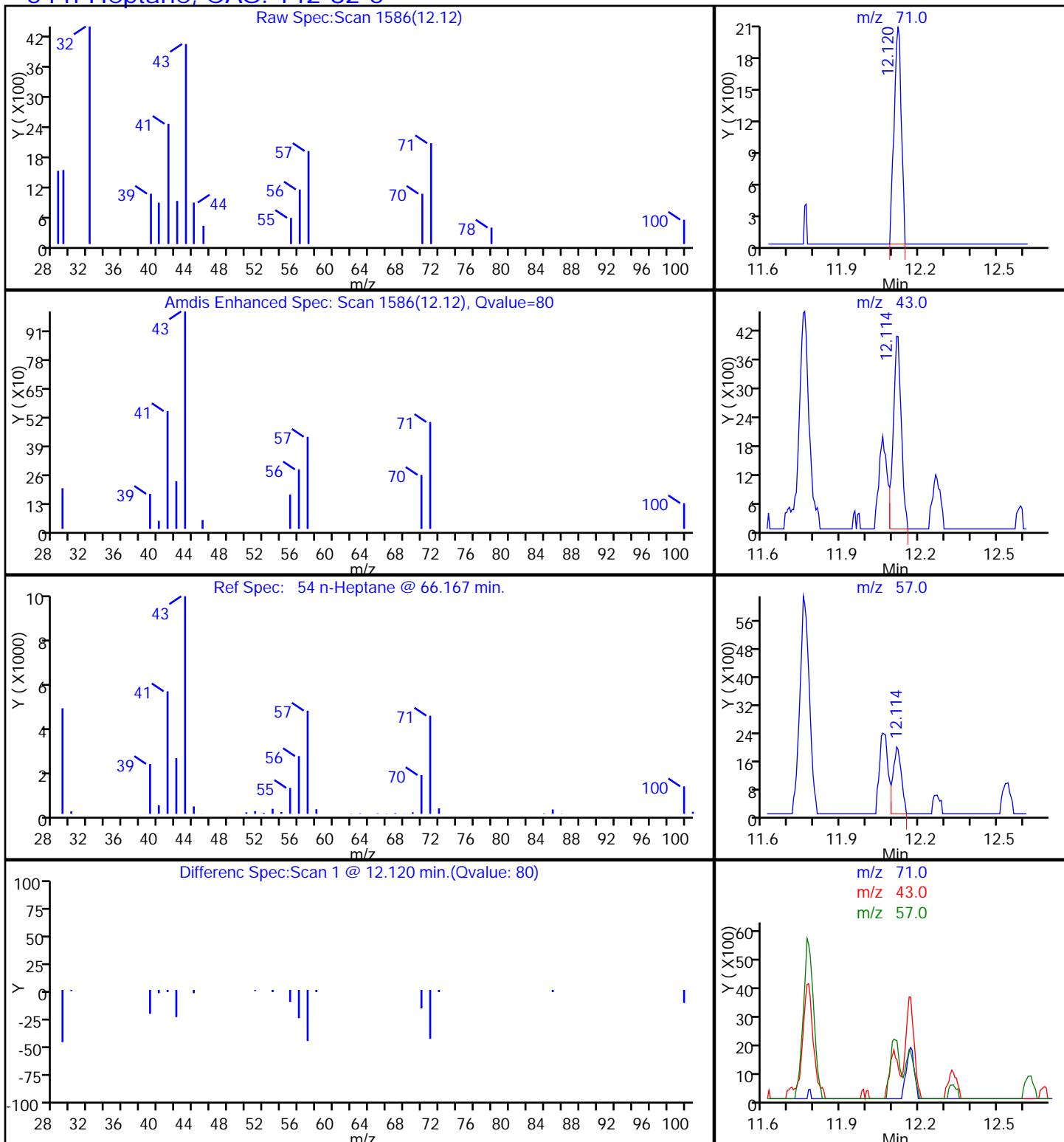
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

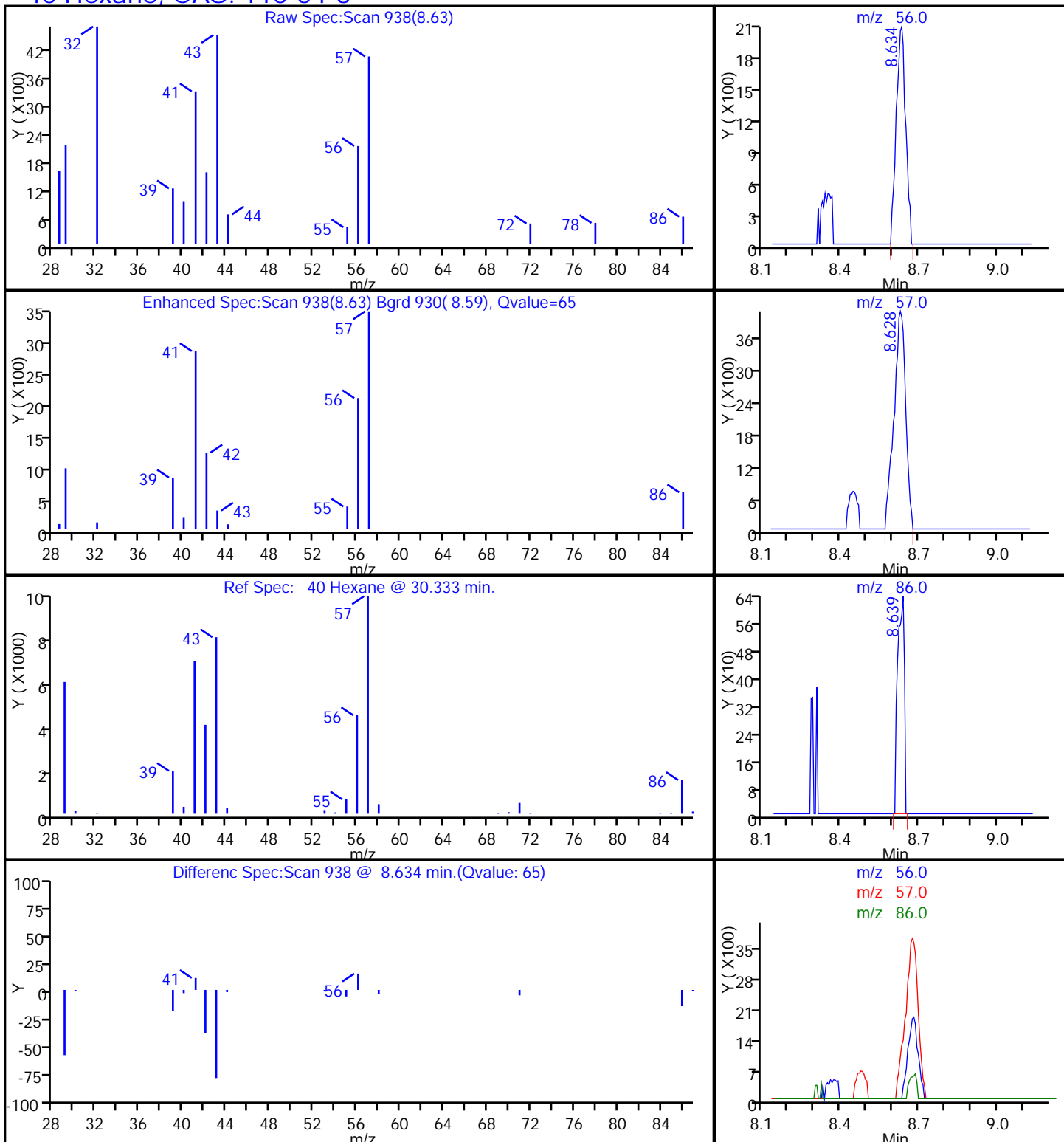
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

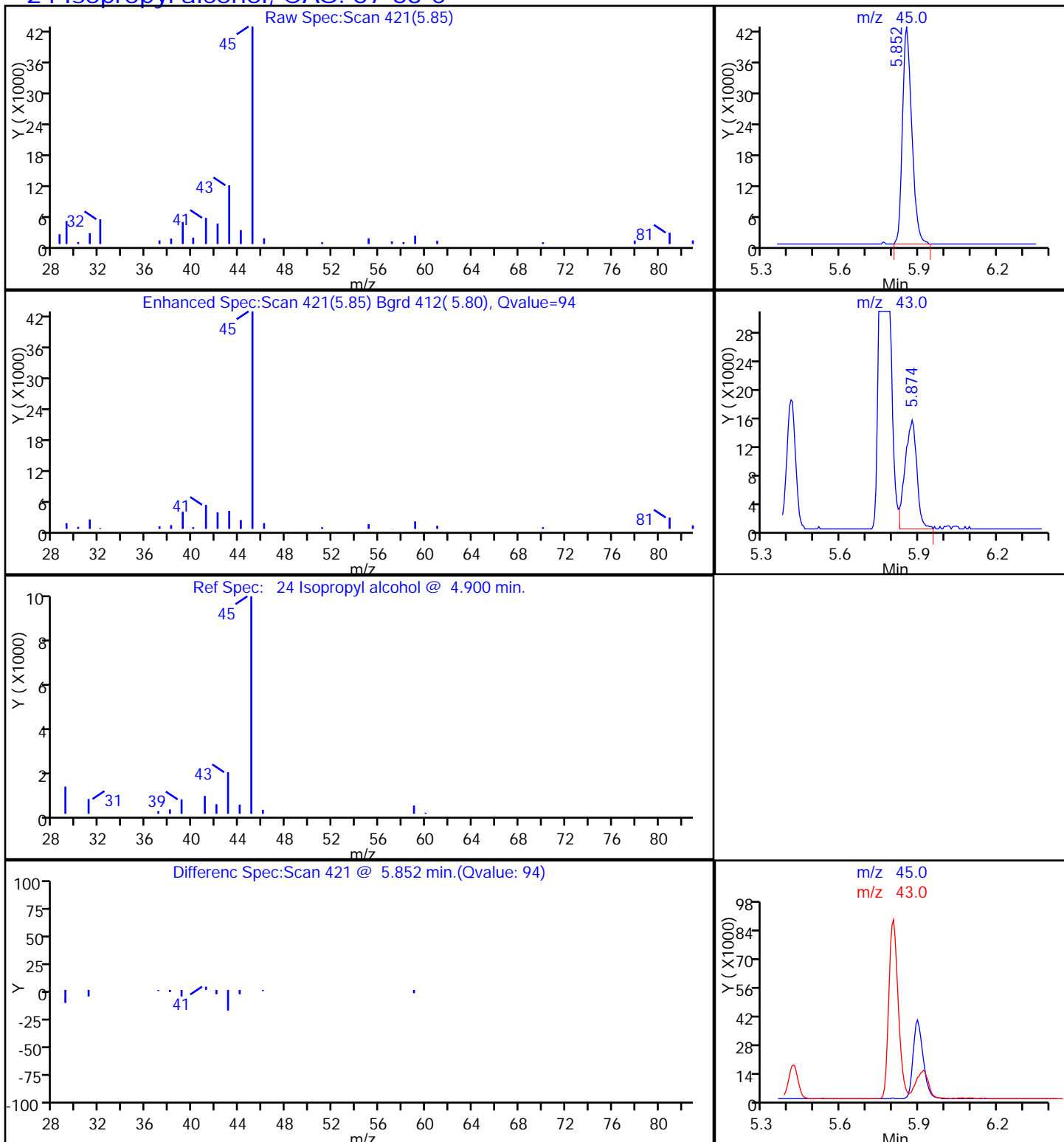
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

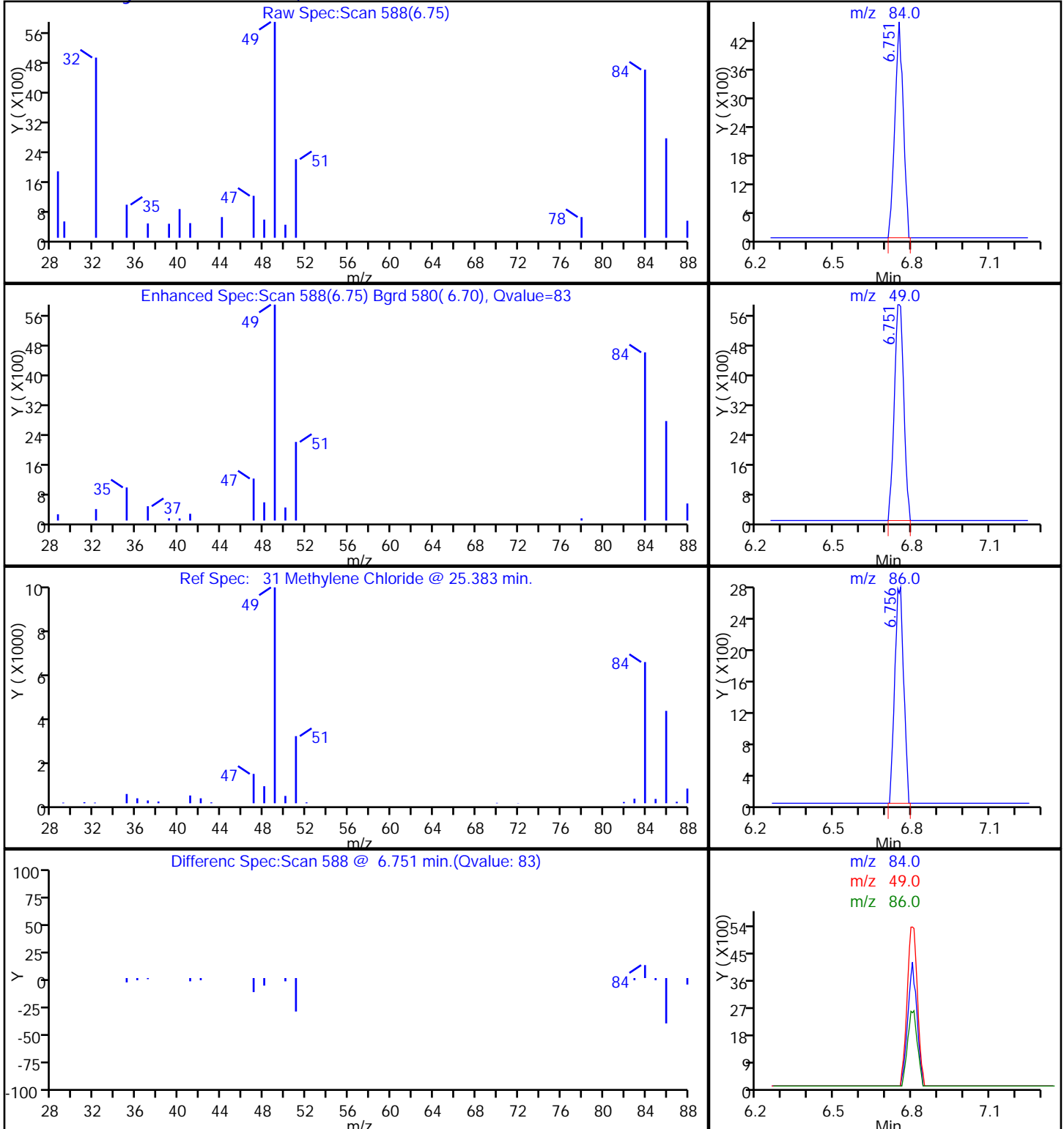
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

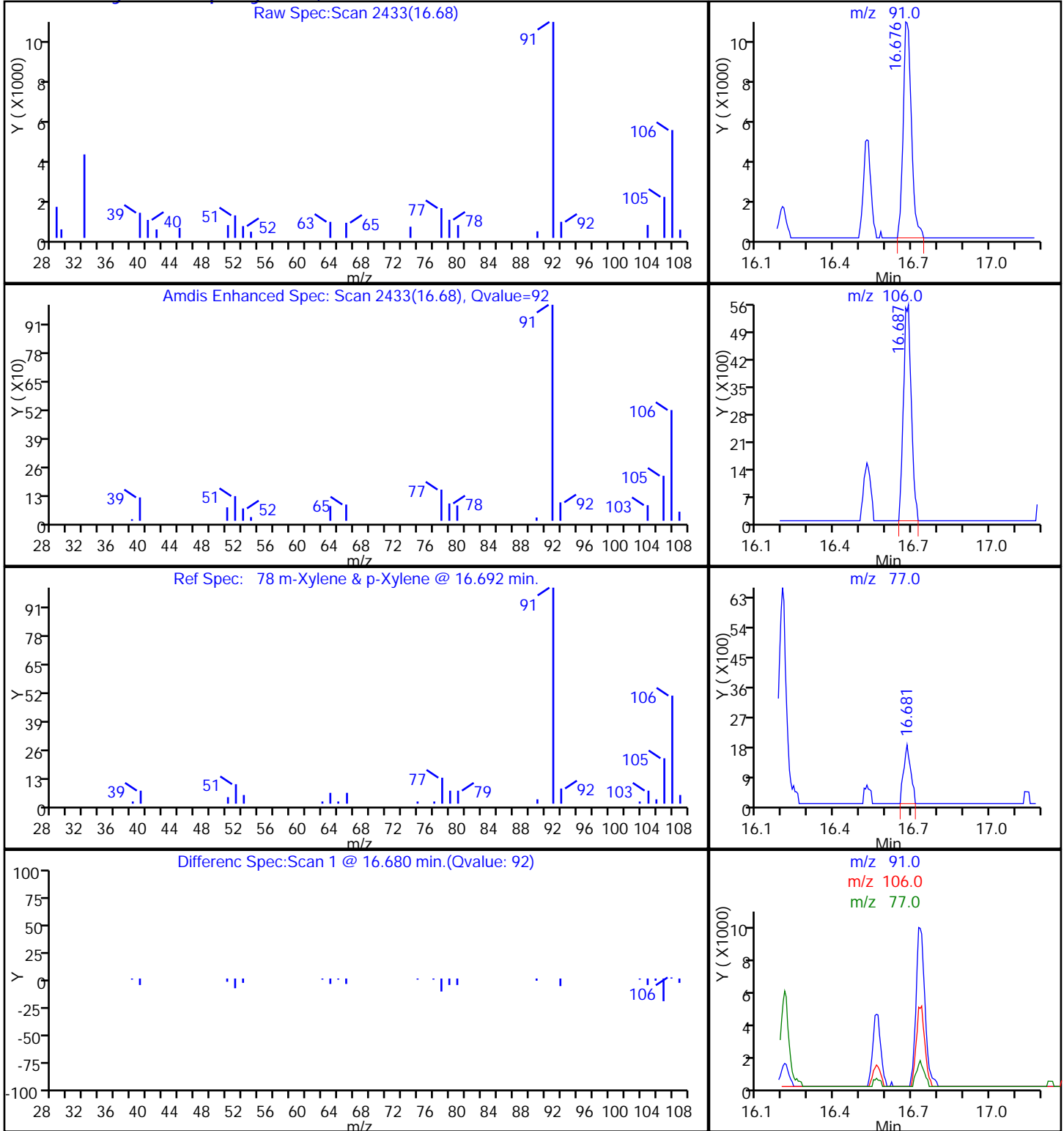
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

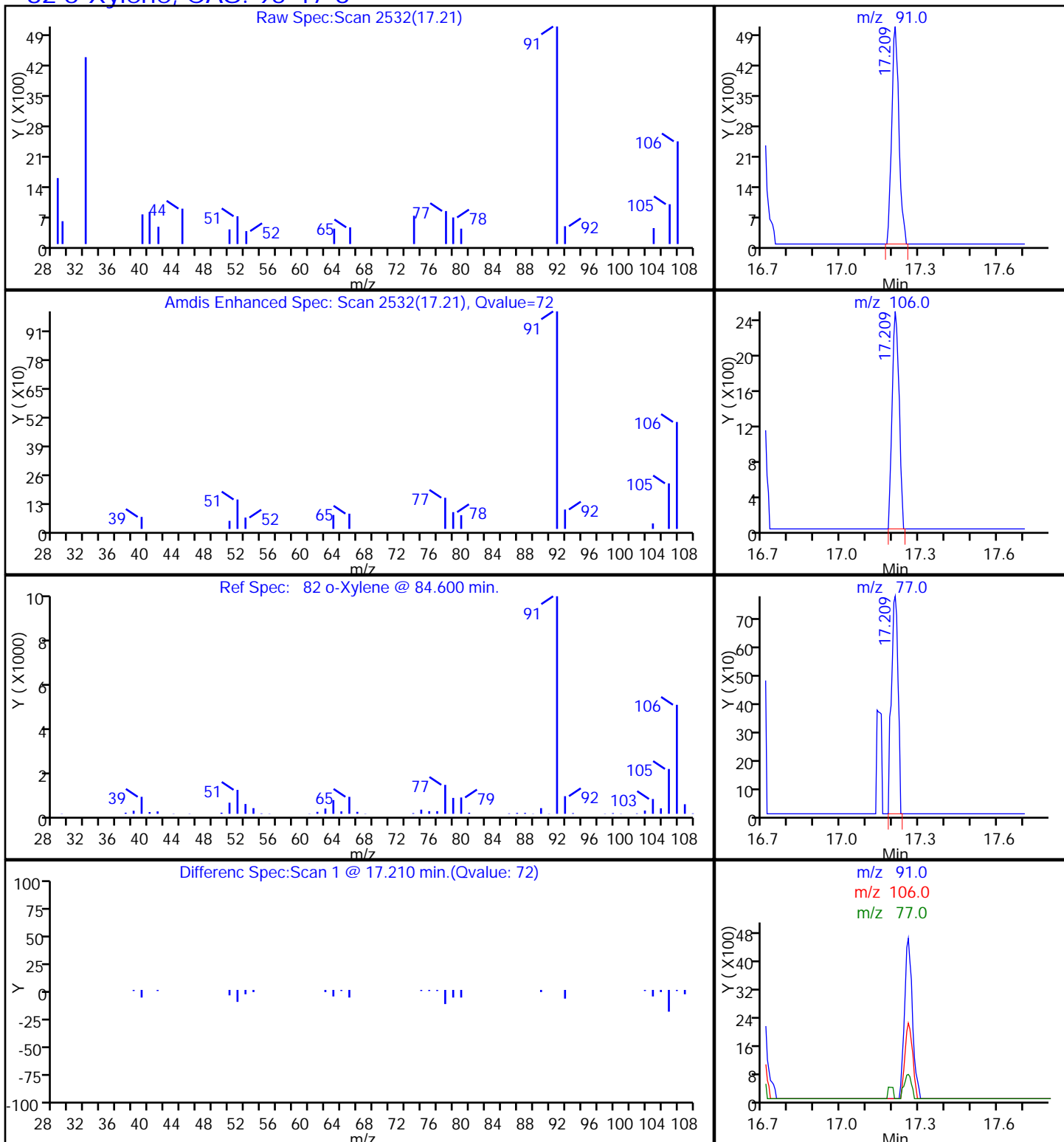
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

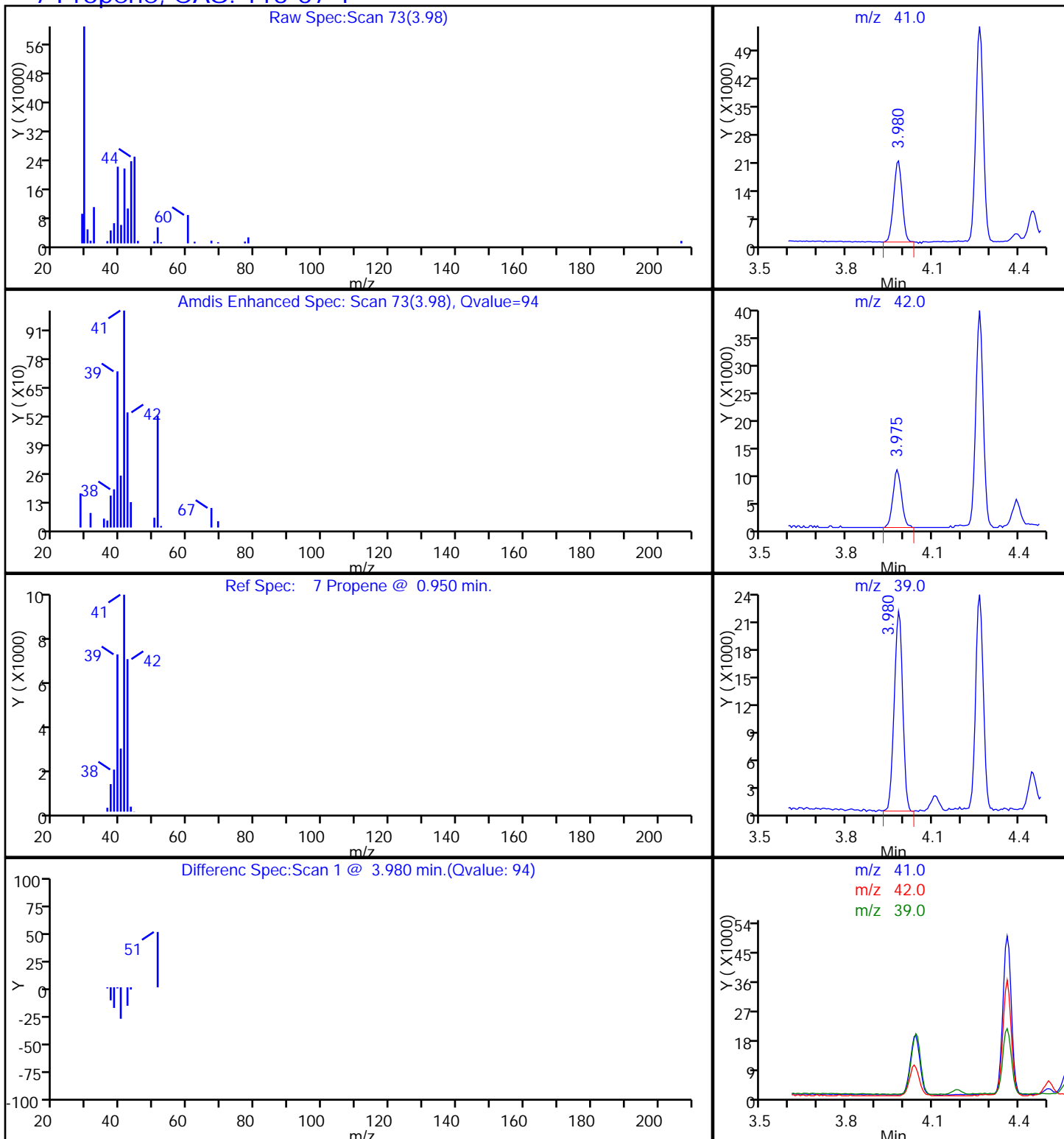
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

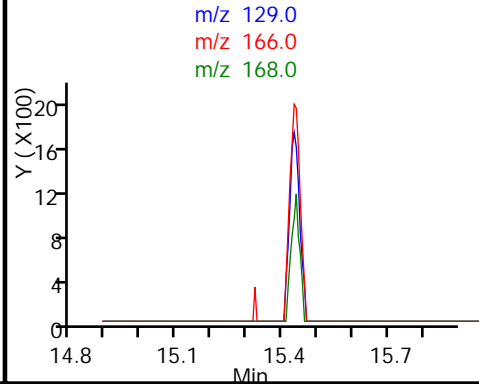
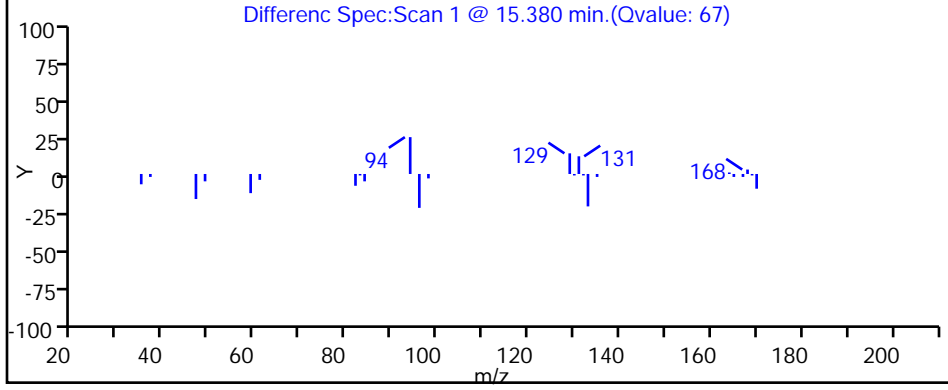
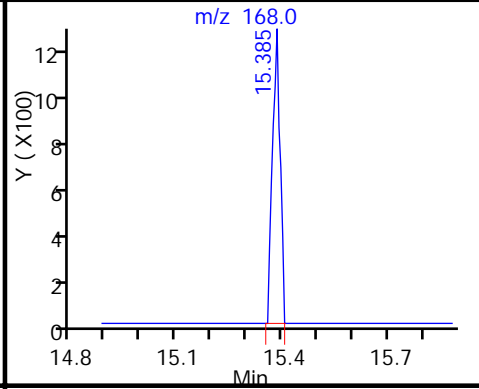
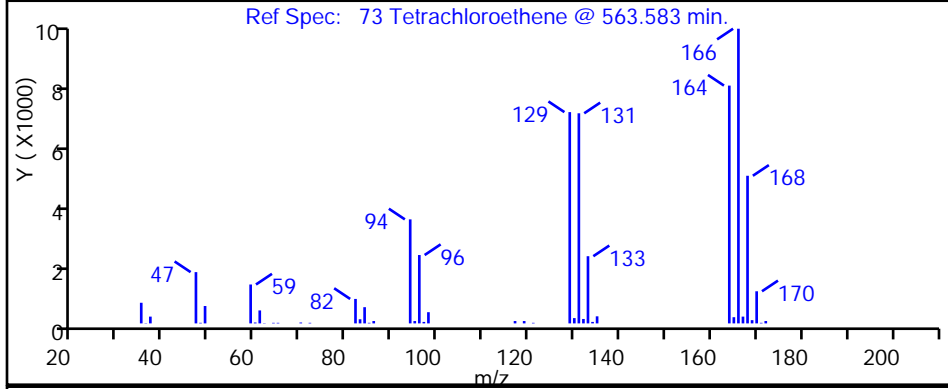
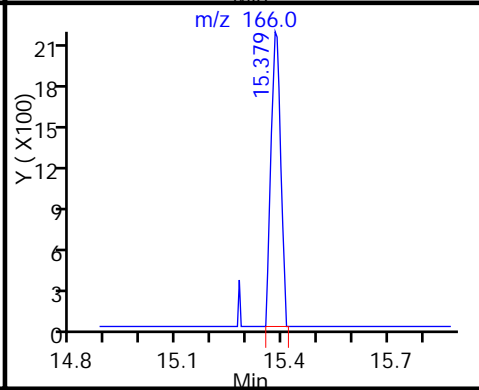
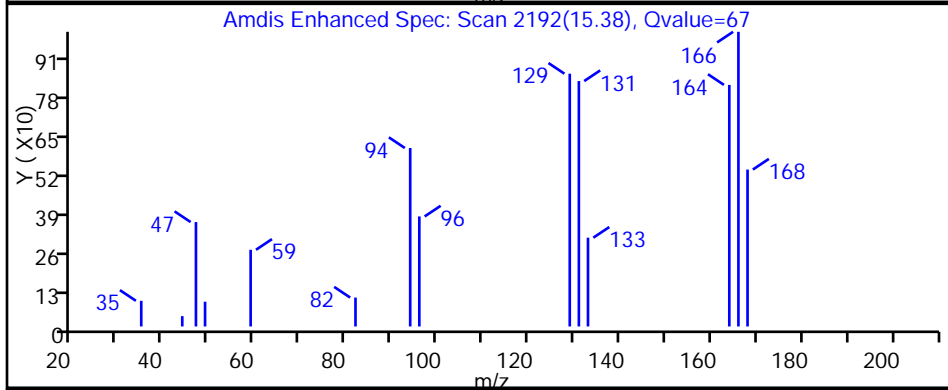
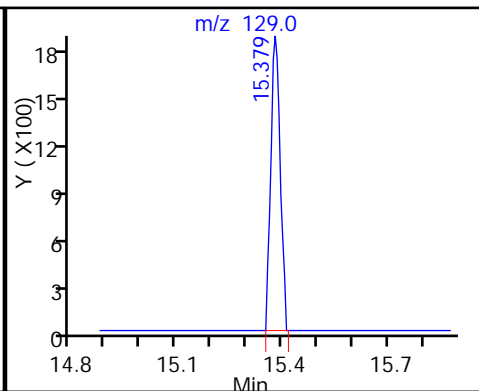
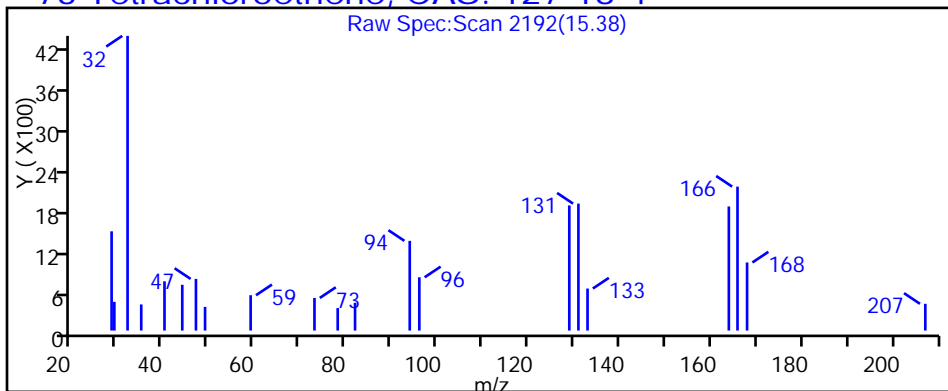
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

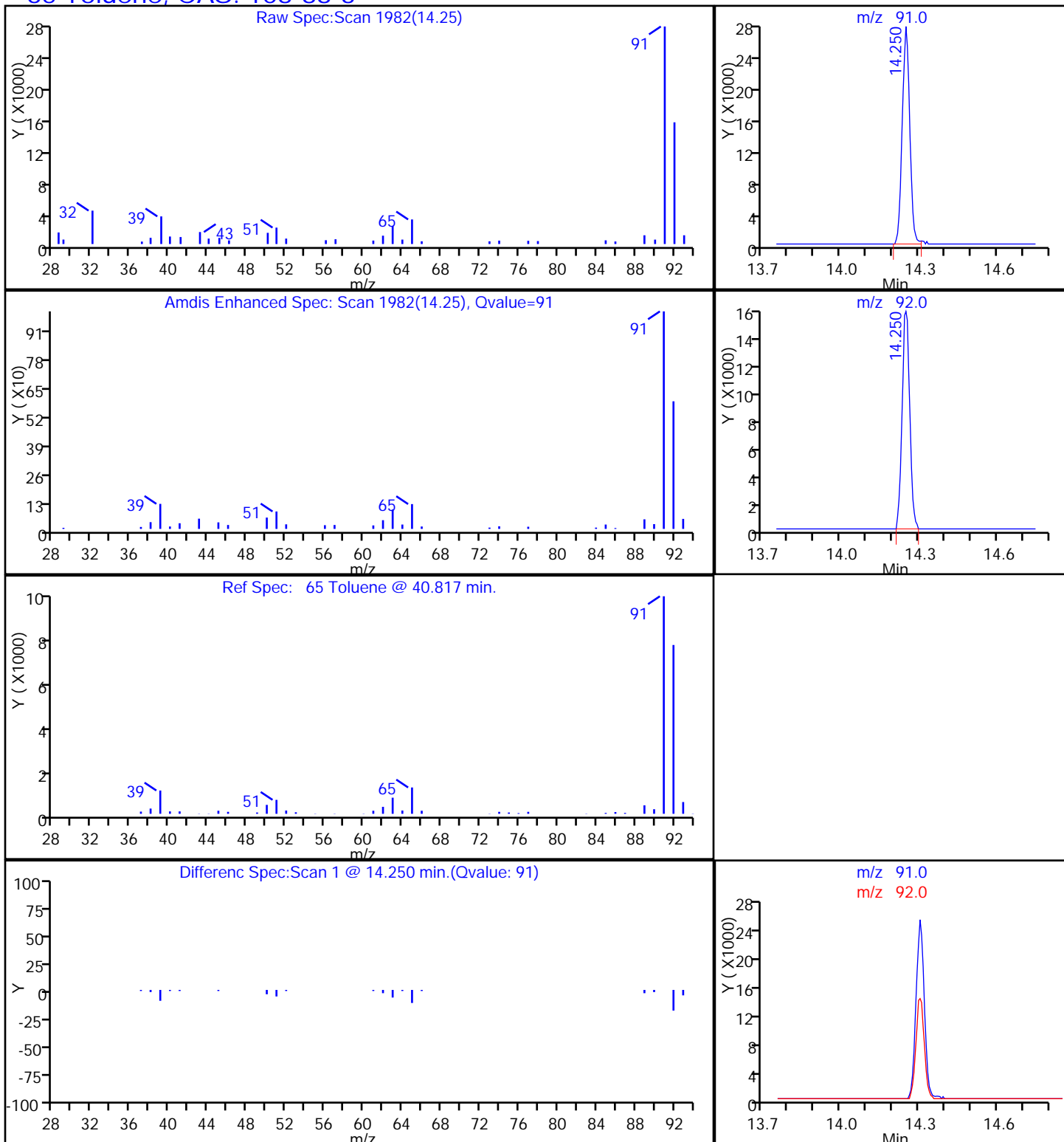
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P106.D

Injection Date: 19-Mar-2014 21:18:30

Instrument ID: MJ

Lims ID: 140-1063-A-21

Lab Sample ID: 140-1063-21

Client ID: IA1-E19

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

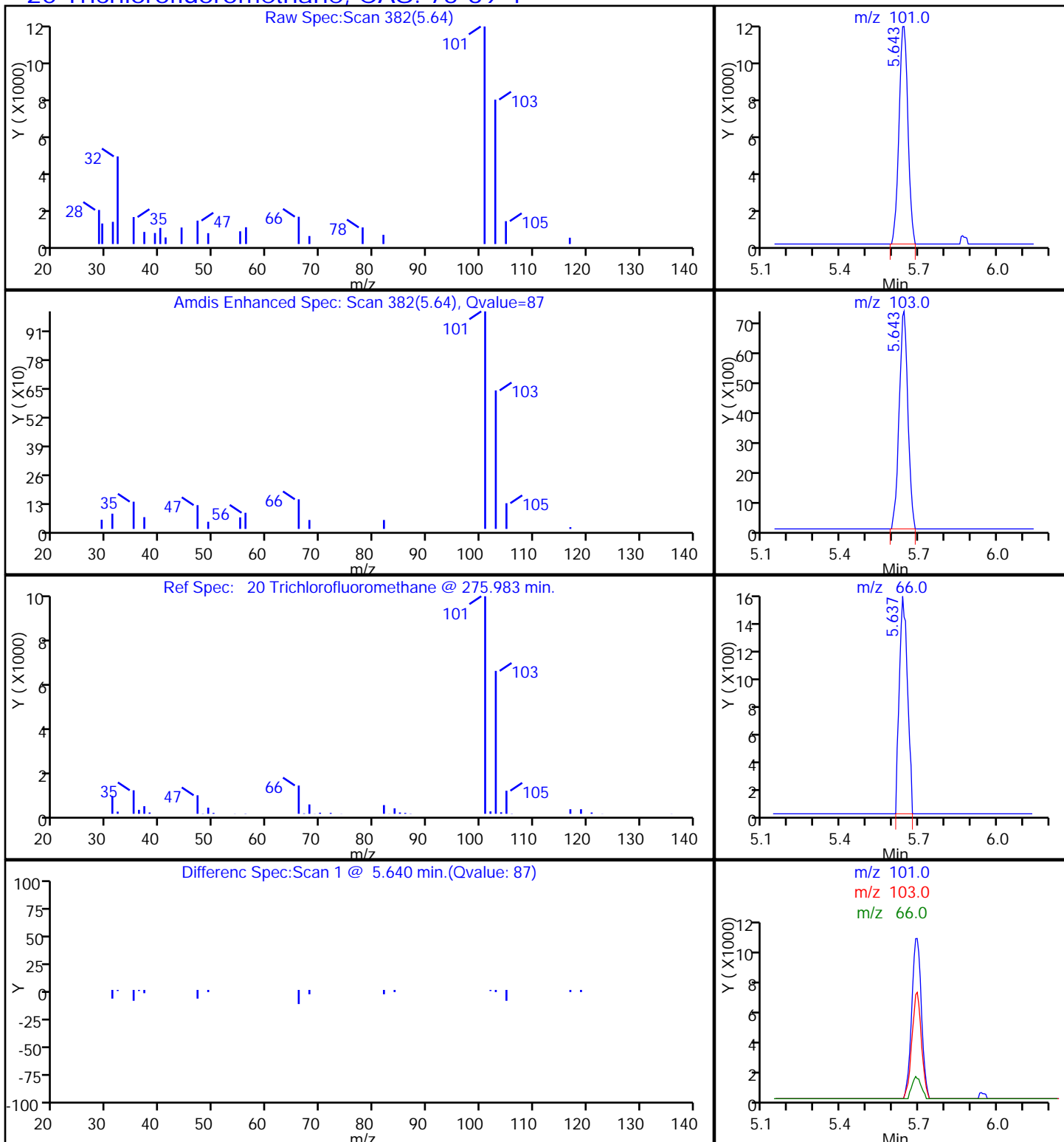
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22
 Matrix: Air Lab File ID: JC19P107.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:05
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.051	J	0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.065	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.26		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.056	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.30	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.47	J	0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.14	J	0.50	0.045
67-64-1	Acetone	58.08	2.9	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22
 Matrix: Air Lab File ID: JC19P107.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:05
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.058	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.14	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	160		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.084	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.12	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	6.2		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.51		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.20		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.075	J	0.20	0.061
115-07-1	Propene	42.08	0.93	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.067	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.58		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.25		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22
 Matrix: Air Lab File ID: JC19P107.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:05
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 22:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22
 Matrix: Air Lab File ID: JC19P107.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:05
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.28	J	1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	1.5		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.26	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.88	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.4	J	1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.57	J	2.0	0.18
67-64-1	Acetone	58.08	6.9	J	12	3.3
71-43-2	Benzene	78.11	0.76		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22
 Matrix: Air Lab File ID: JC19P107.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:05
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 22:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.37	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.68	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	300		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.34	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.42	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	15		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.8		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.85		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.33	J	0.87	0.26
115-07-1	Propene	42.08	1.6	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.46	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.2		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E19 Lab Sample ID: 140-1063-22
 Matrix: Air Lab File ID: JC19P107.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 17:05
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 22:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D
 Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22
 Client ID: IA2-E19
 Sample Type: Client
 Inject. Date: 19-Mar-2014 22:12:30 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-22
 Misc. Info.: J031914,TO15,,140-0000532-013
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Mar-2014 13:30:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: liul

Date: 26-Mar-2014 13:30:57

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.385	-0.008	90	363785	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1764672	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1503623	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	1001234	3.76	
7 Propene	41	3.987	3.973	0.014	86	41384	0.3710	
8 Dichlorodifluoromethane	85	4.030	4.032	-0.002	96	63128	0.1752	
9 Chloromethane	52	4.229	4.229	-0.002	97	9152	0.2236	M
17 Ethanol	31	5.122	5.119	0.003	94	1834416	62.8	
19 2-Methylbutane	43	5.407	5.409	-0.002	91	29244	0.1893	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	91	31100	0.0982	
23 Acetone	58	5.767	5.770	-0.003	91	60051	1.16	
24 Isopropyl alcohol	45	5.859	5.850	0.009	98	338890	2.48	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.580	6.582	-0.002	64	5737	0.0262	
31 Methylene Chloride	84	6.752	6.754	-0.002	96	19932	0.2048	
39 2-Butanone (MEK)	72	8.602	8.589	0.013	82	4116	0.1195	
40 Hexane	56	8.634	8.637	-0.003	71	4613	0.0472	
43 Chloroform	83	9.388	9.396	-0.008	15	11749	0.0554	
45 1,1,1-Trichloroethane	97	10.437	10.439	-0.002	19	4475	0.0203	
48 Benzene	78	11.018	11.026	-0.008	90	28829	0.0952	
50 Carbon tetrachloride	117	11.044	11.047	-0.003	84	5850	0.0234	
53 Isooctane	57	11.755	11.763	-0.008	75	11659	0.0226	
54 n-Heptane	71	12.115	12.123	-0.008	80	3595	0.0336	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.371	0.008	85	10219	0.0552	
65 Toluene	91	14.251	14.253	-0.002	92	64353	0.2307	
73 Tetrachloroethene	129	15.380	15.383	-0.003	69	3496	0.0269	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	88	19403	0.0780	
82 o-Xylene	91	17.209	17.212	-0.003	50	7567	0.0300	
97 1,4-Dichlorobenzene	146	19.291	19.294	-0.003	89	18330	0.1026	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Worklist Smp#: 13

Client ID: IA2-E19

Purge Vol: 500.000 mL

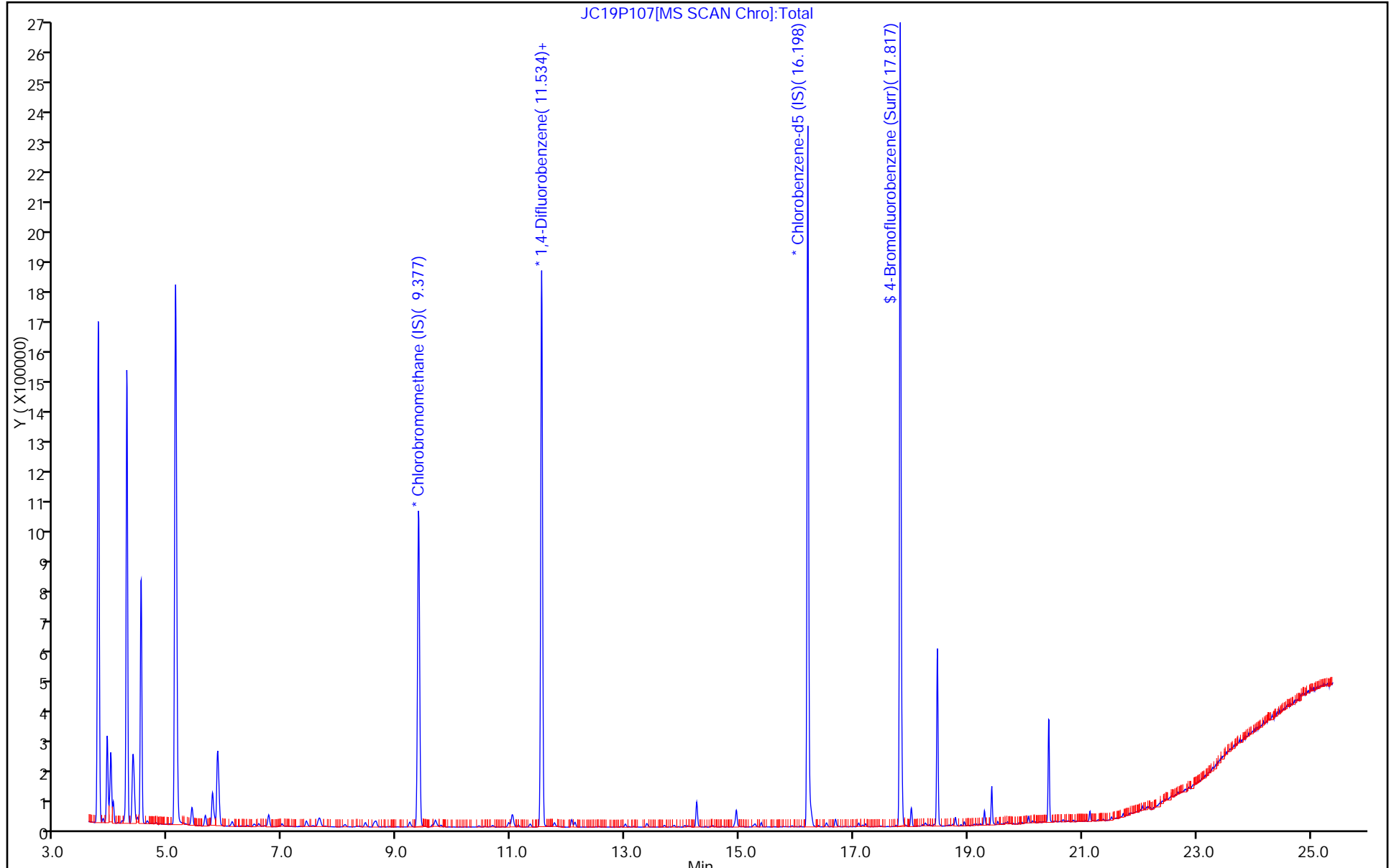
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

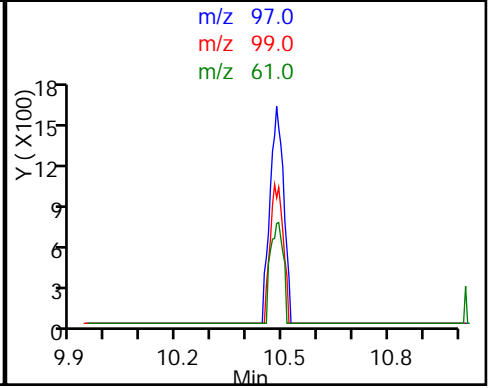
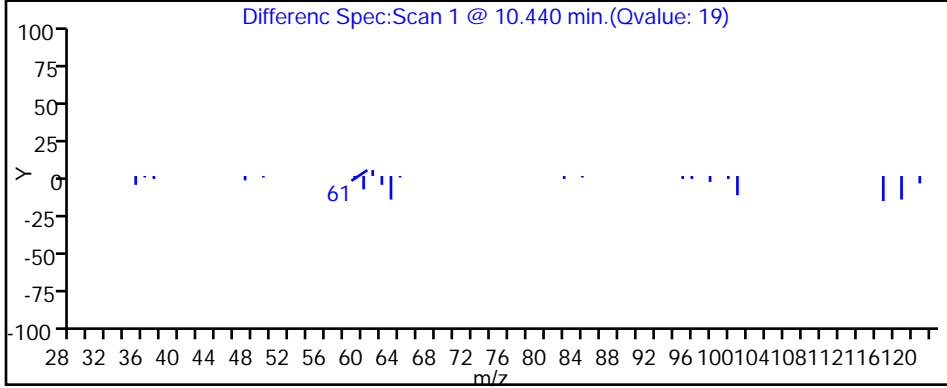
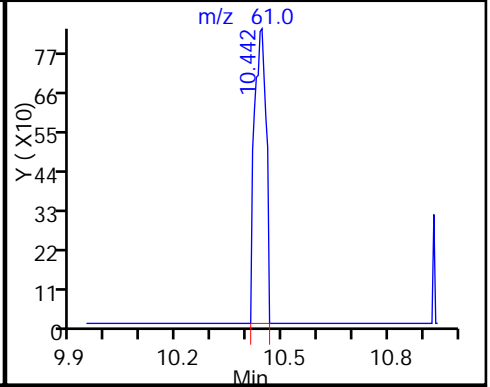
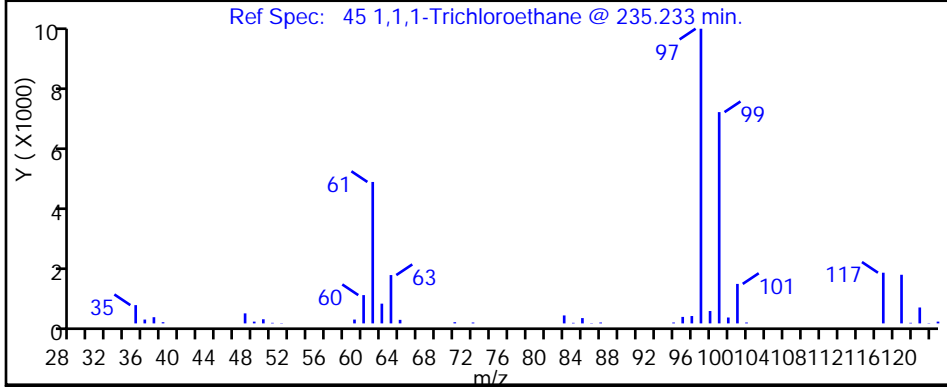
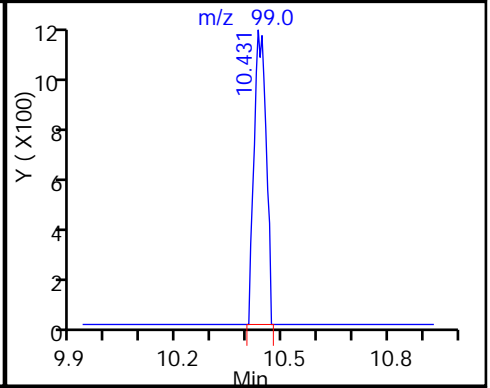
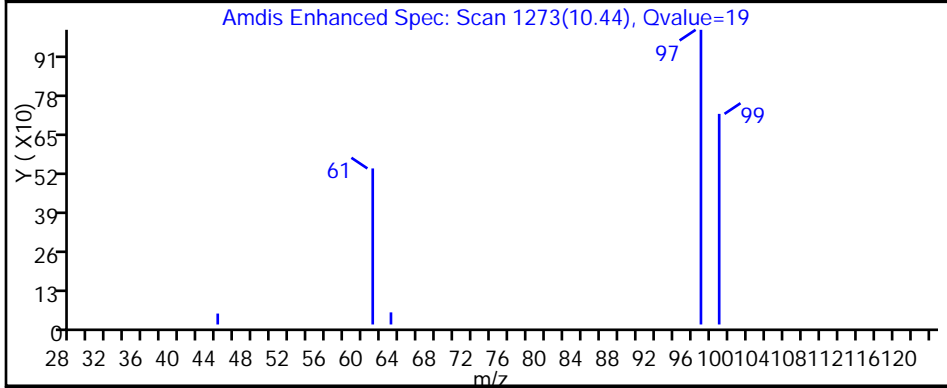
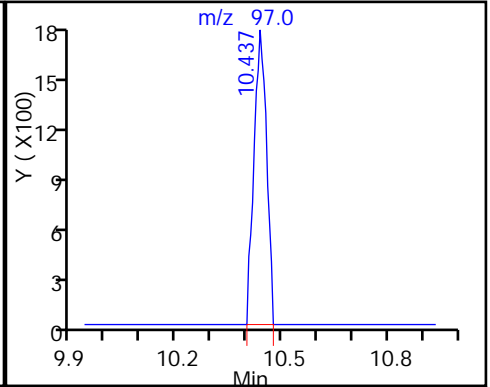
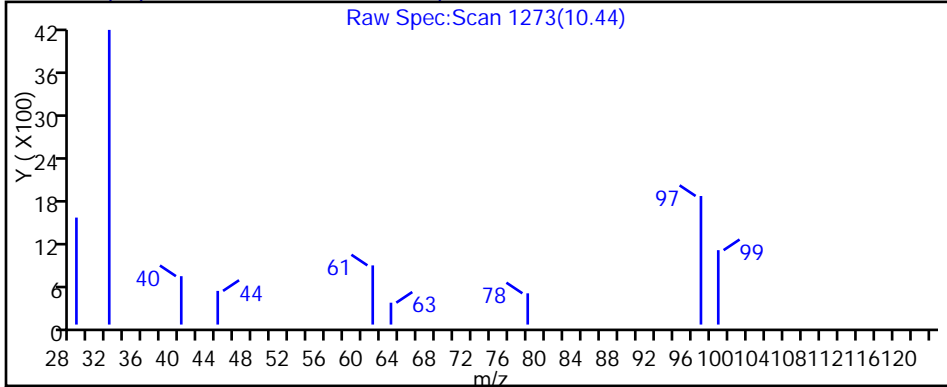
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

45 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

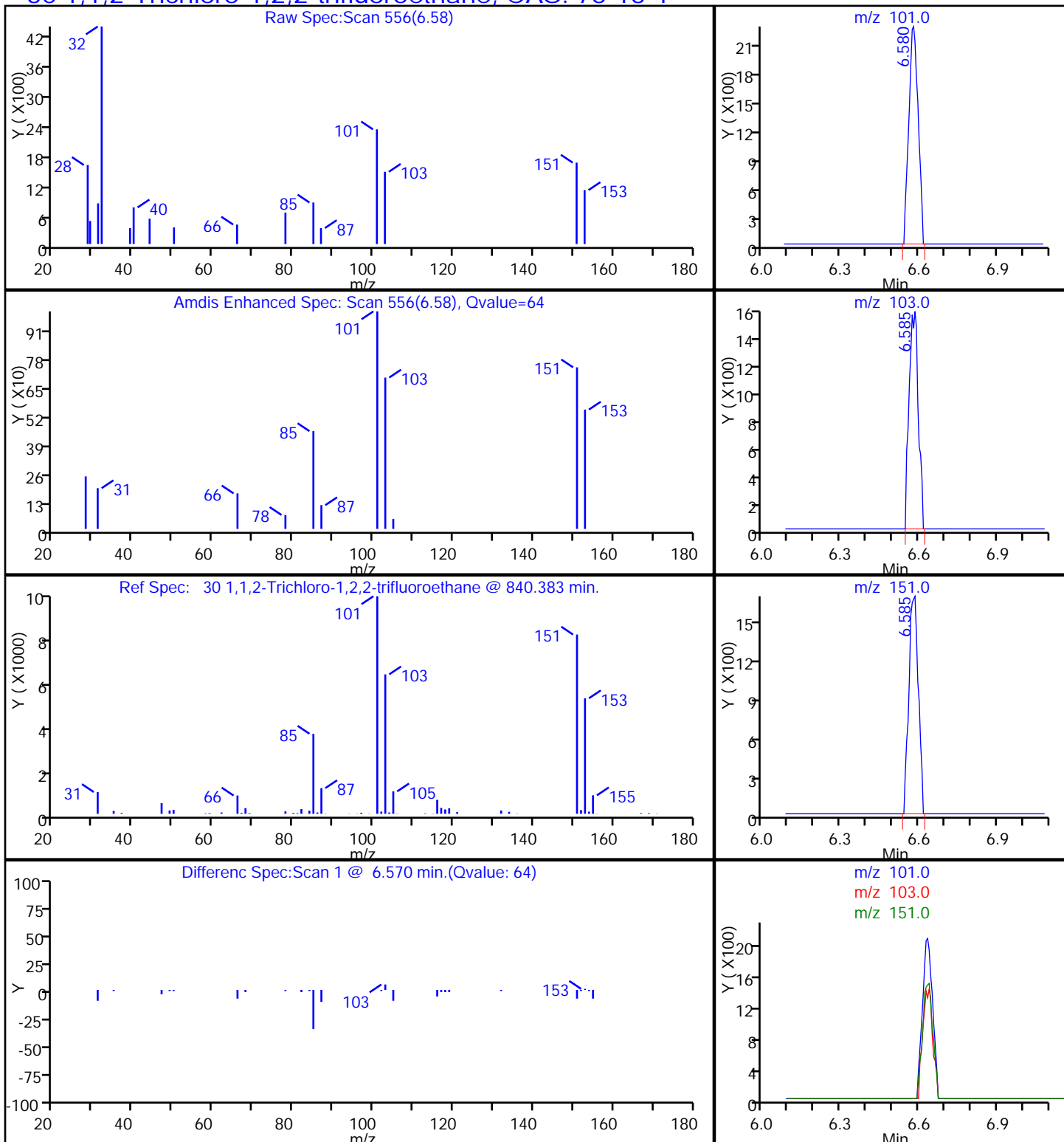
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

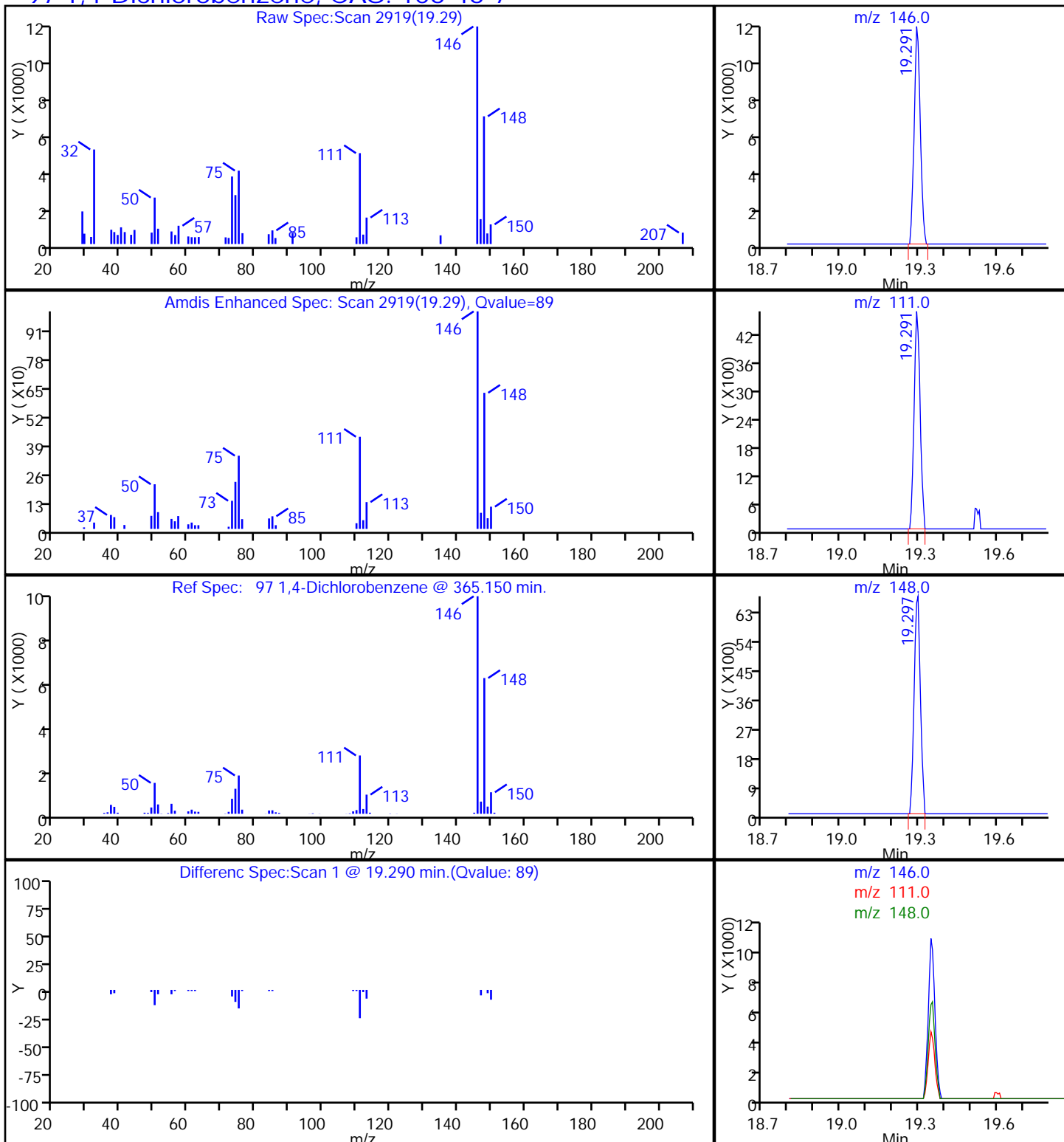
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

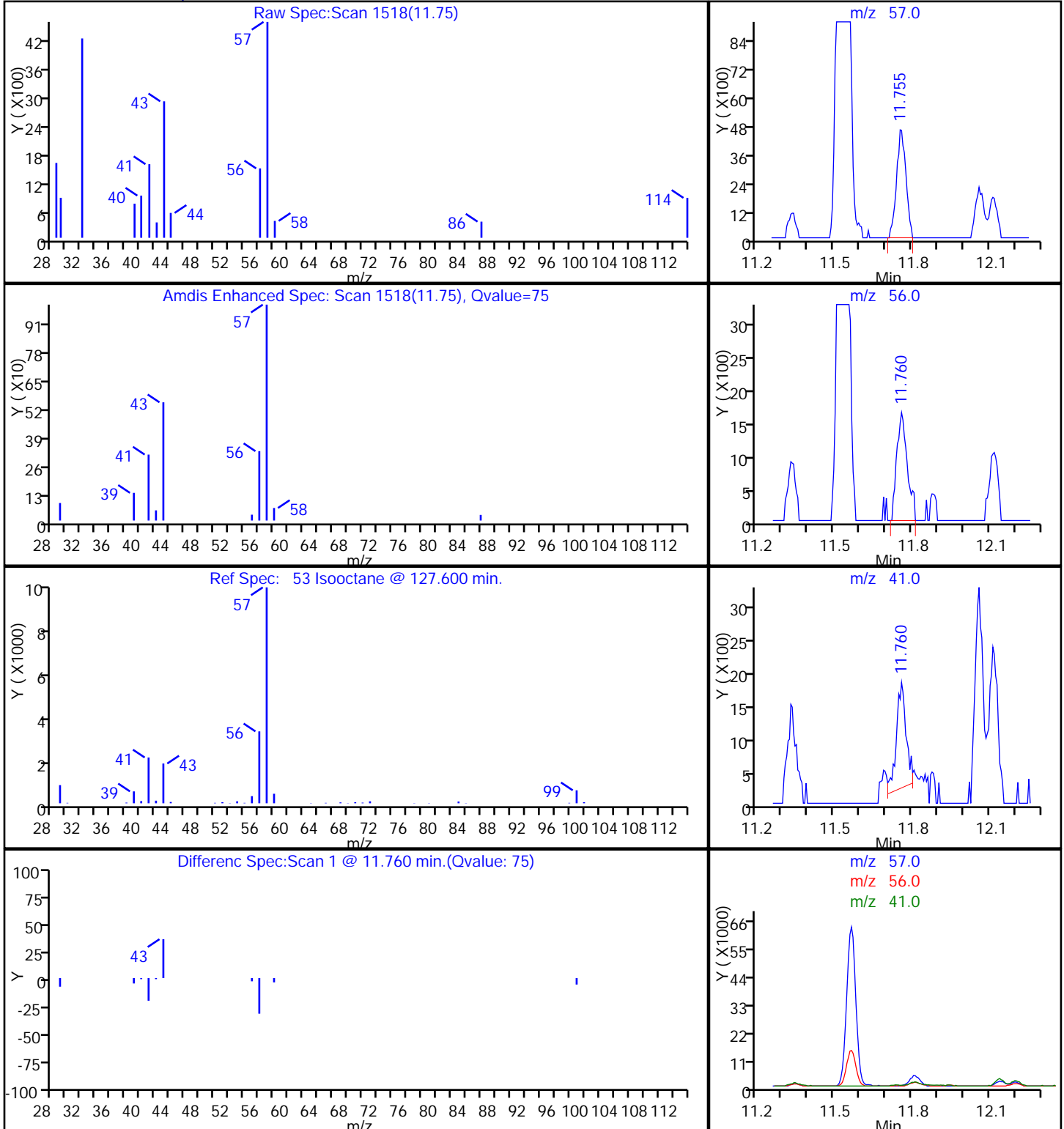
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

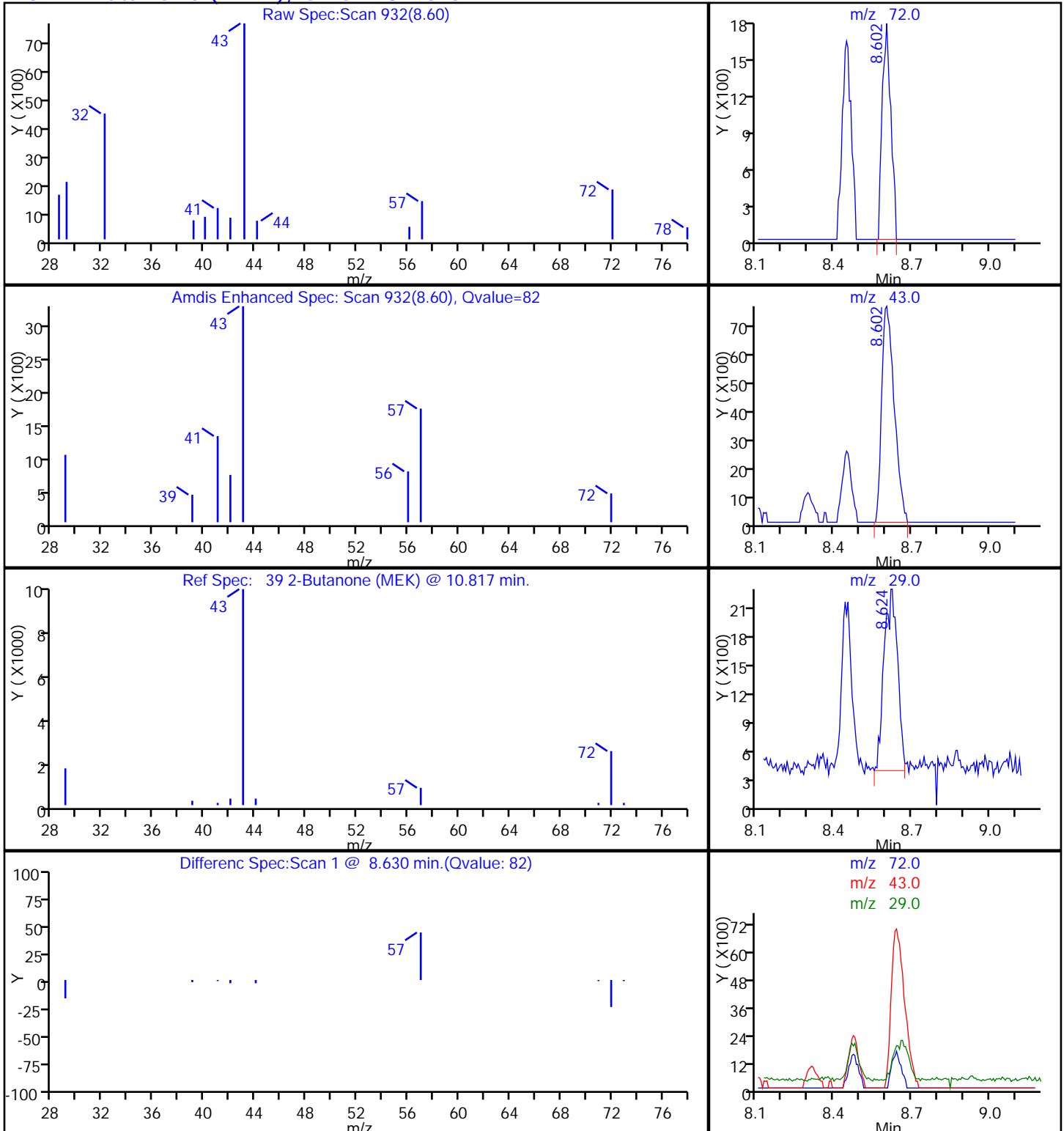
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

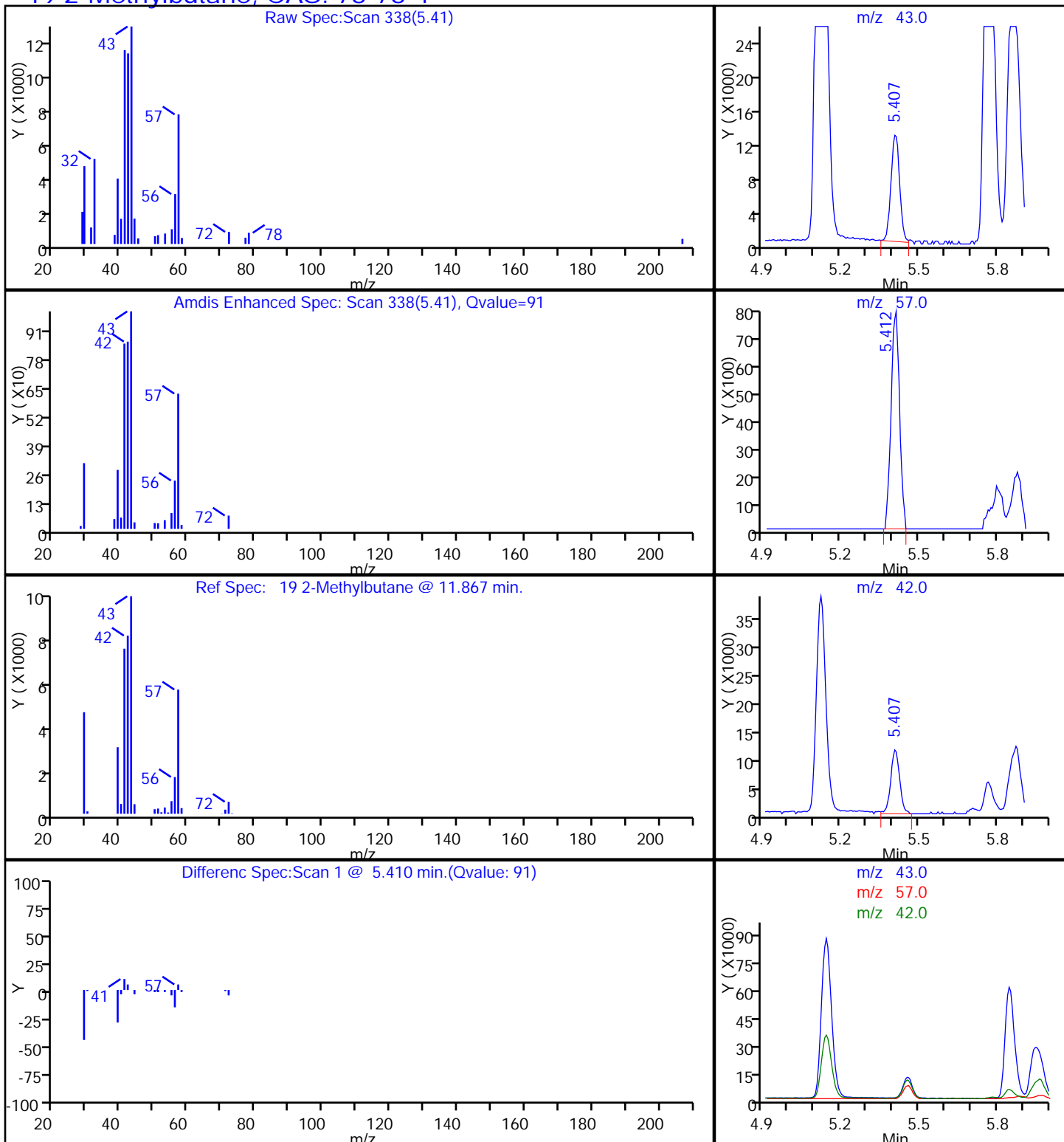
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

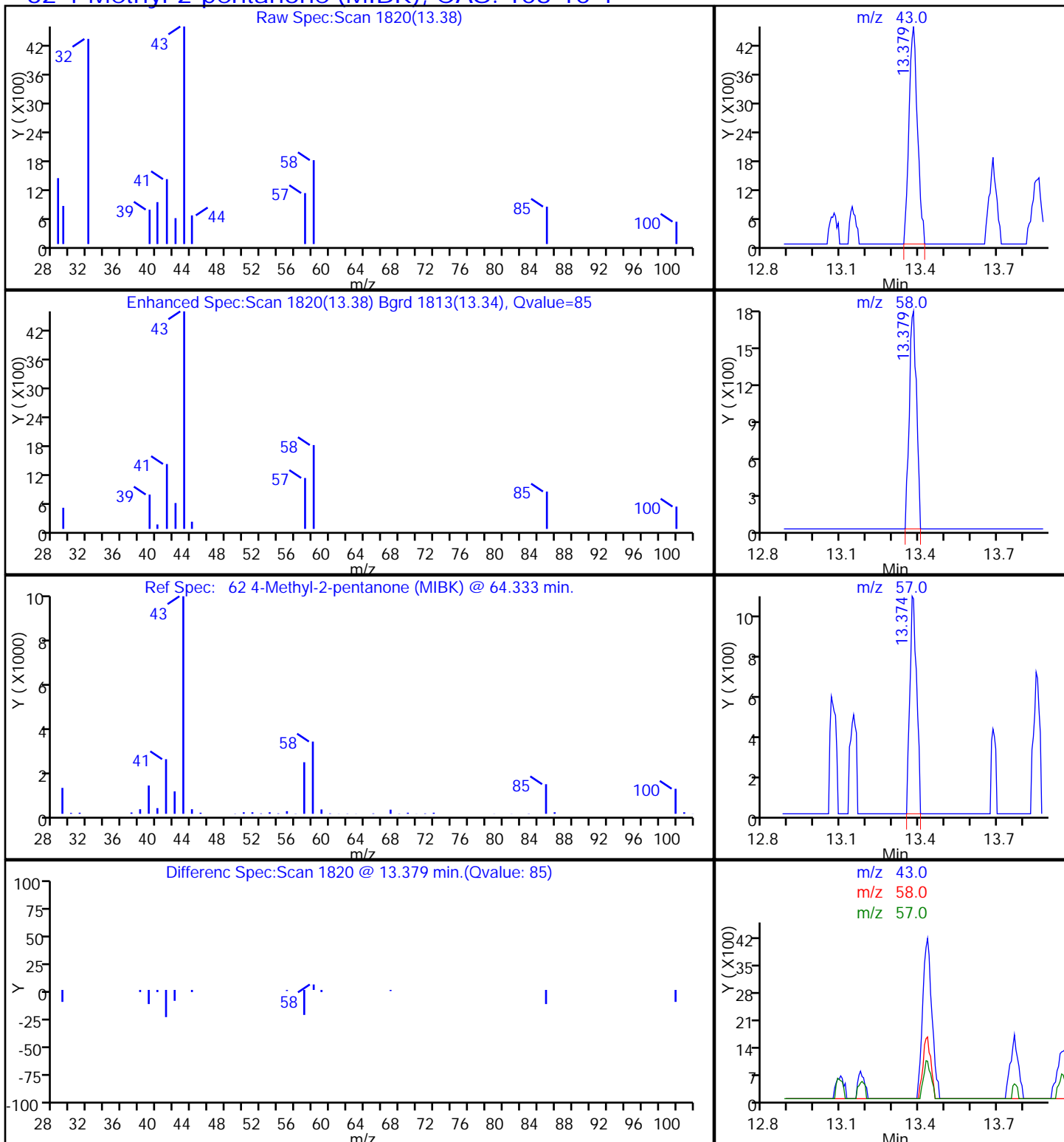
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

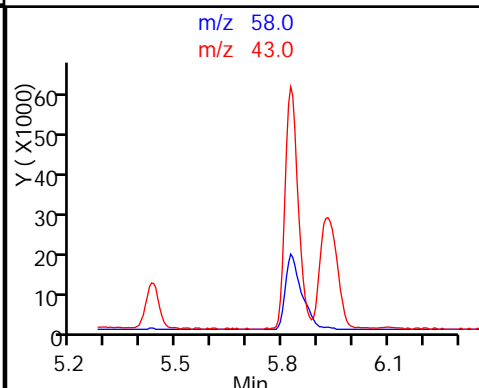
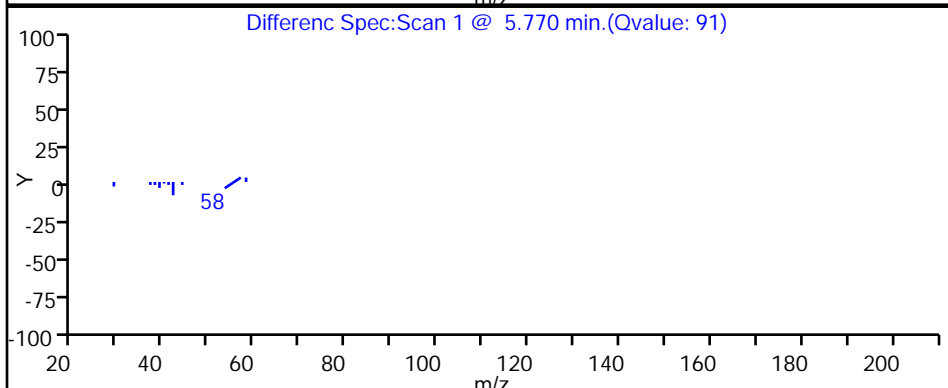
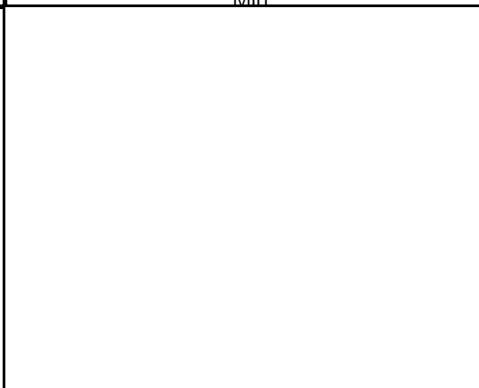
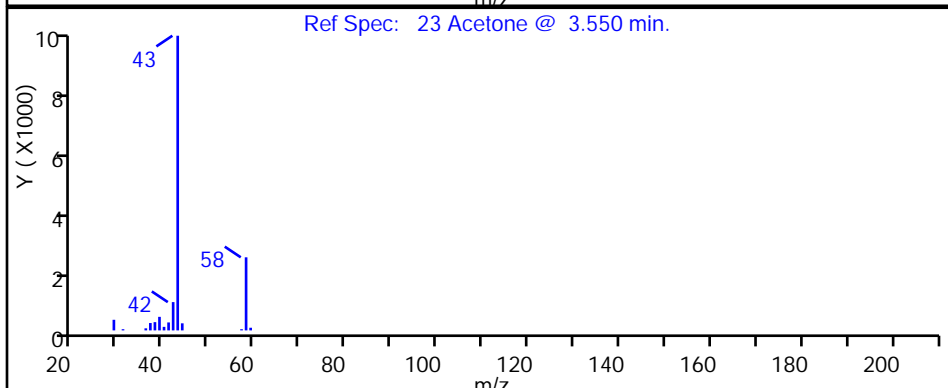
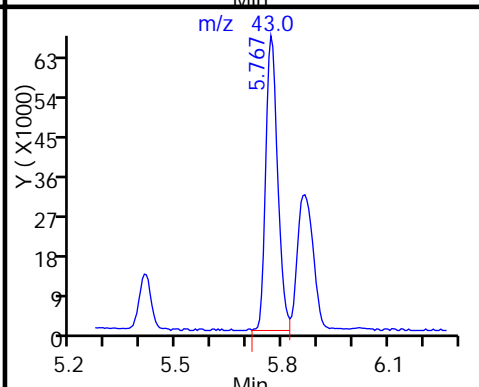
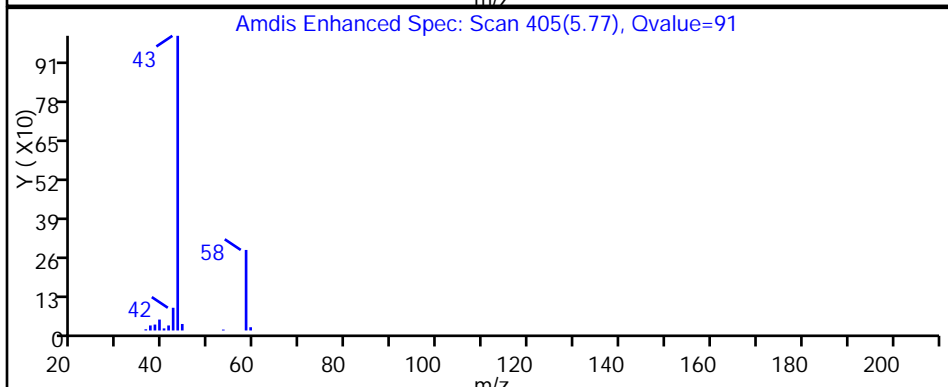
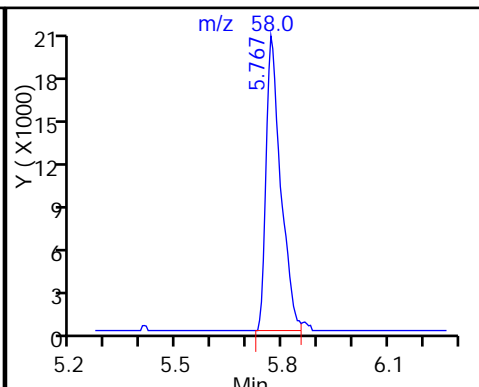
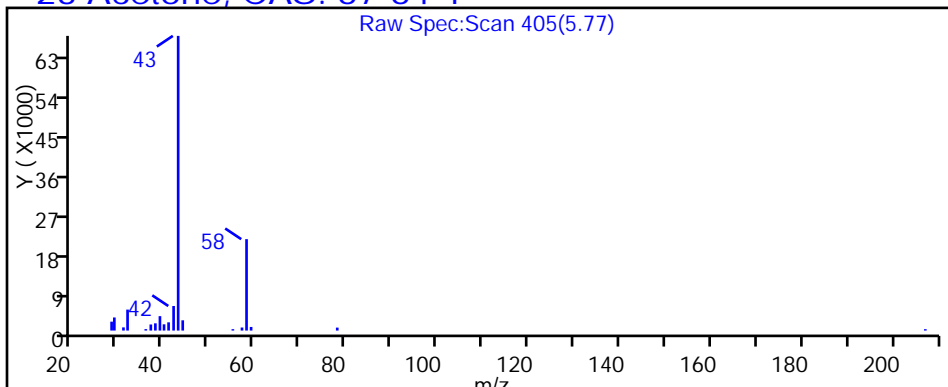
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

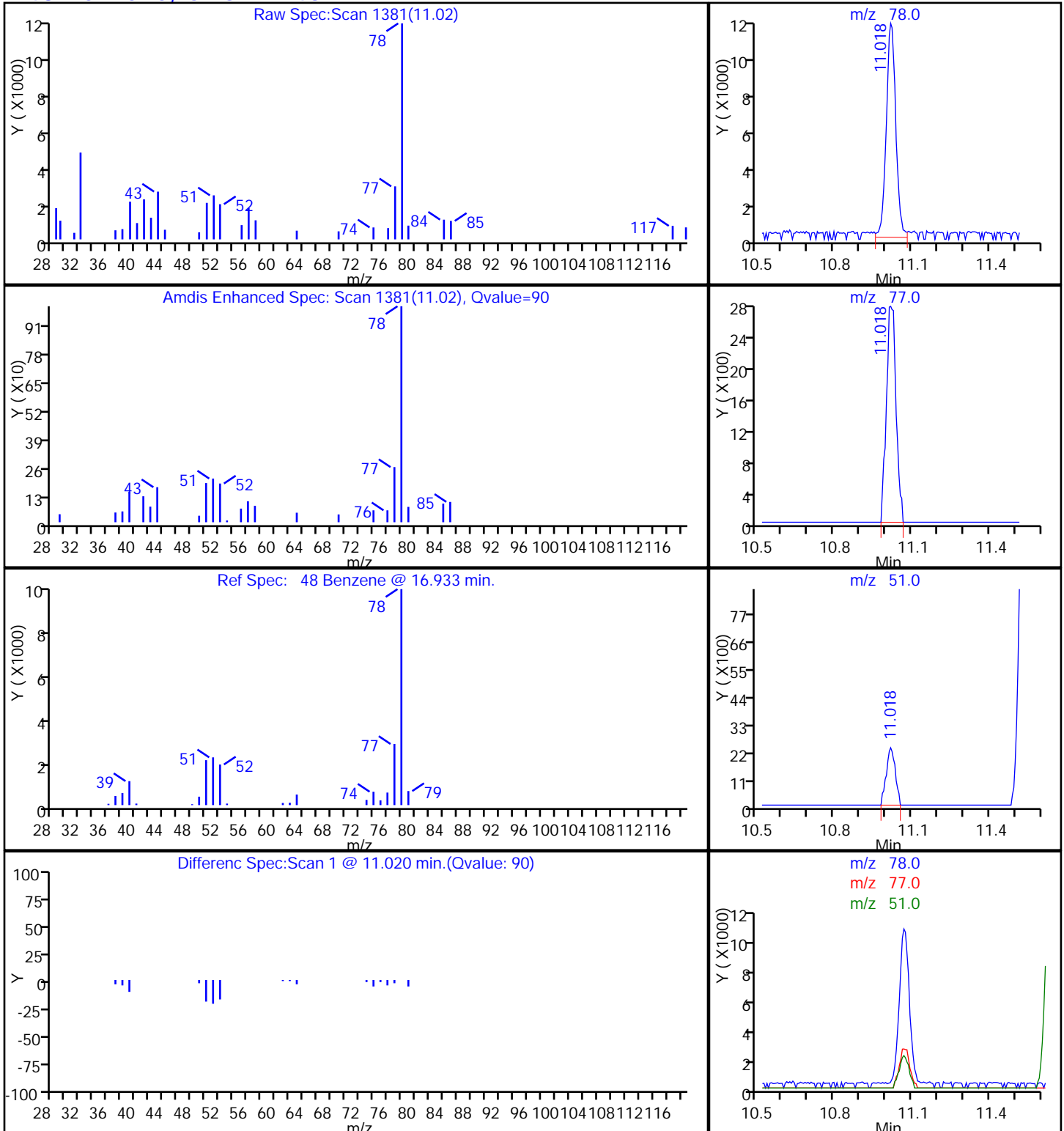
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

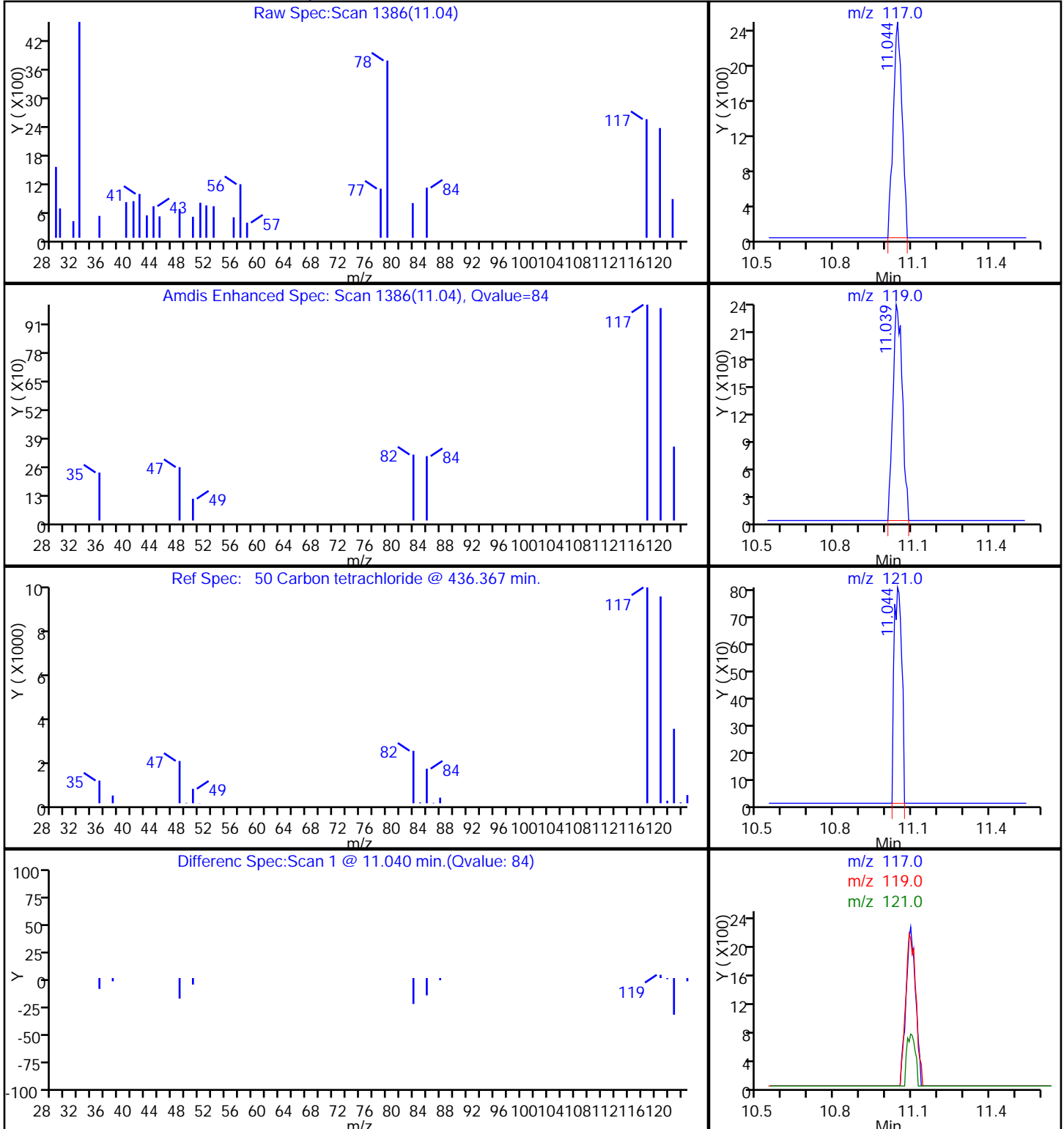
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

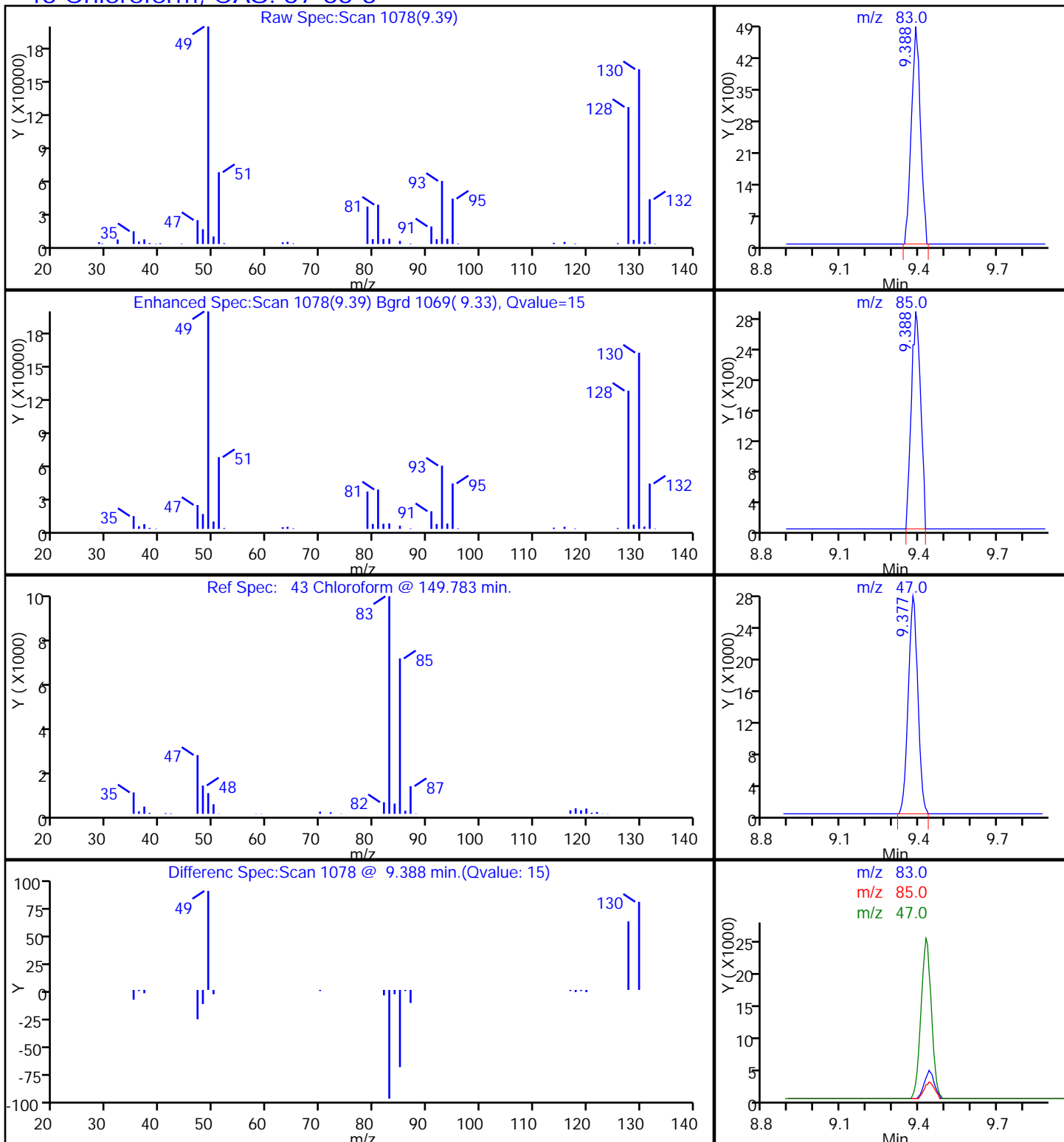
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

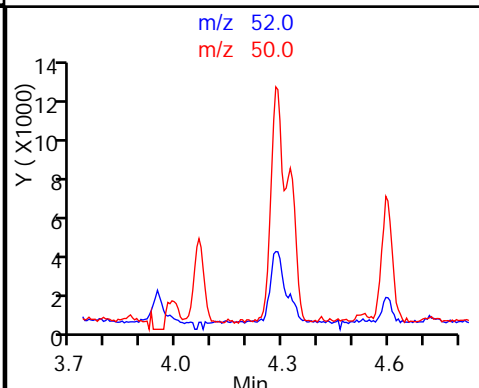
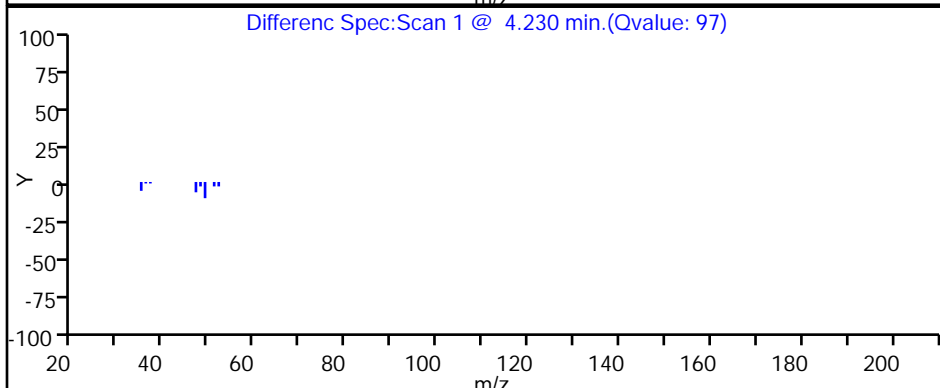
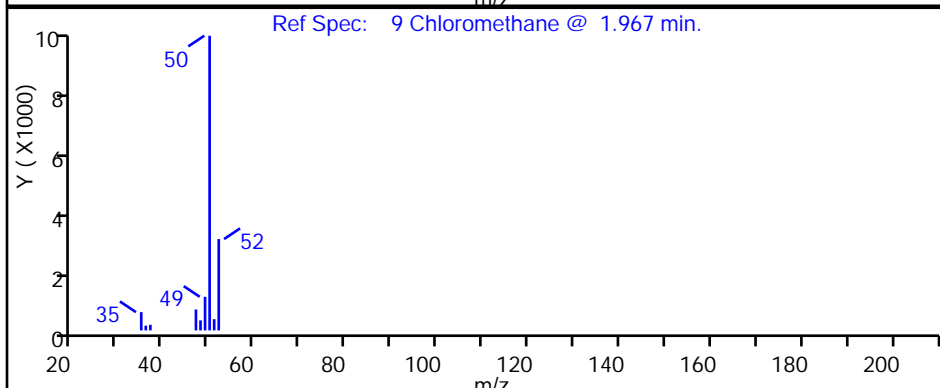
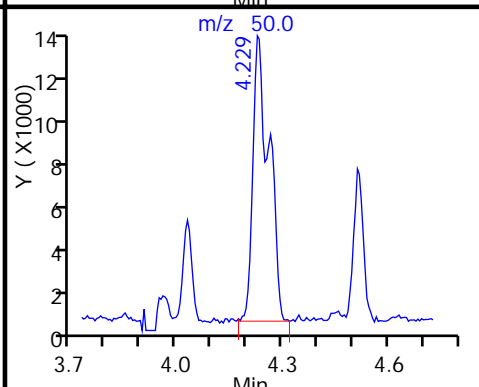
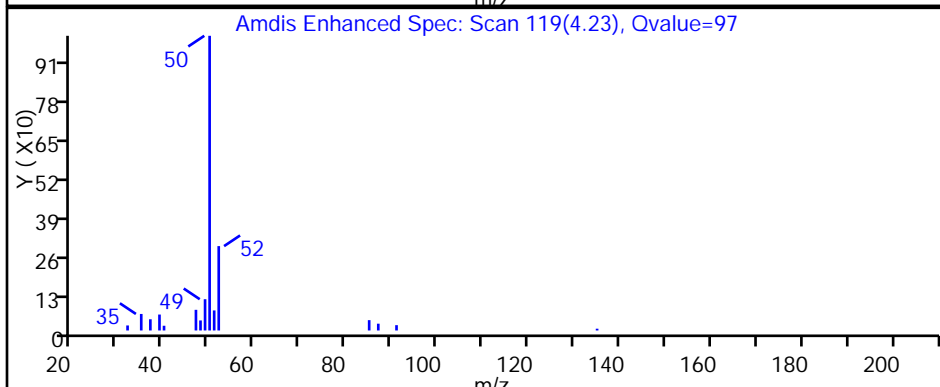
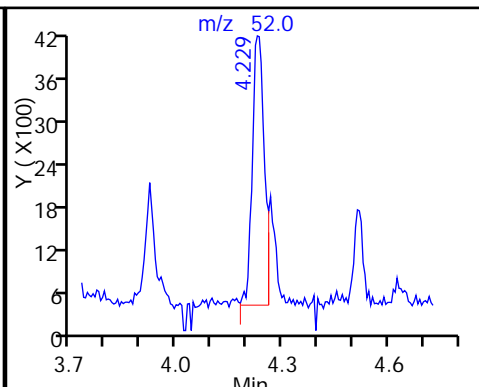
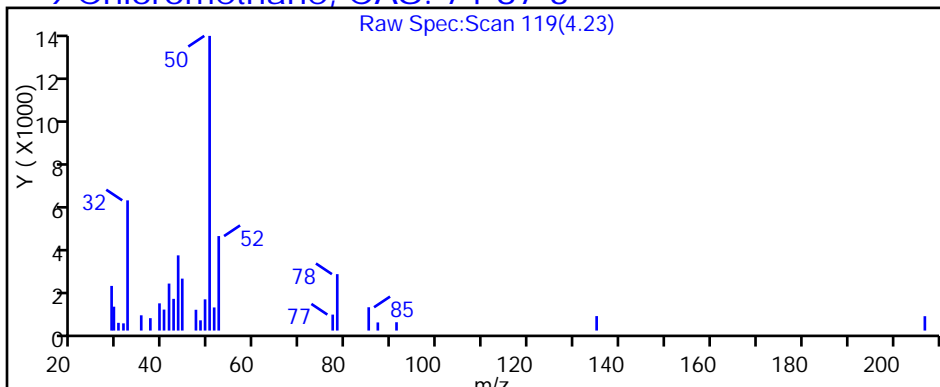
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

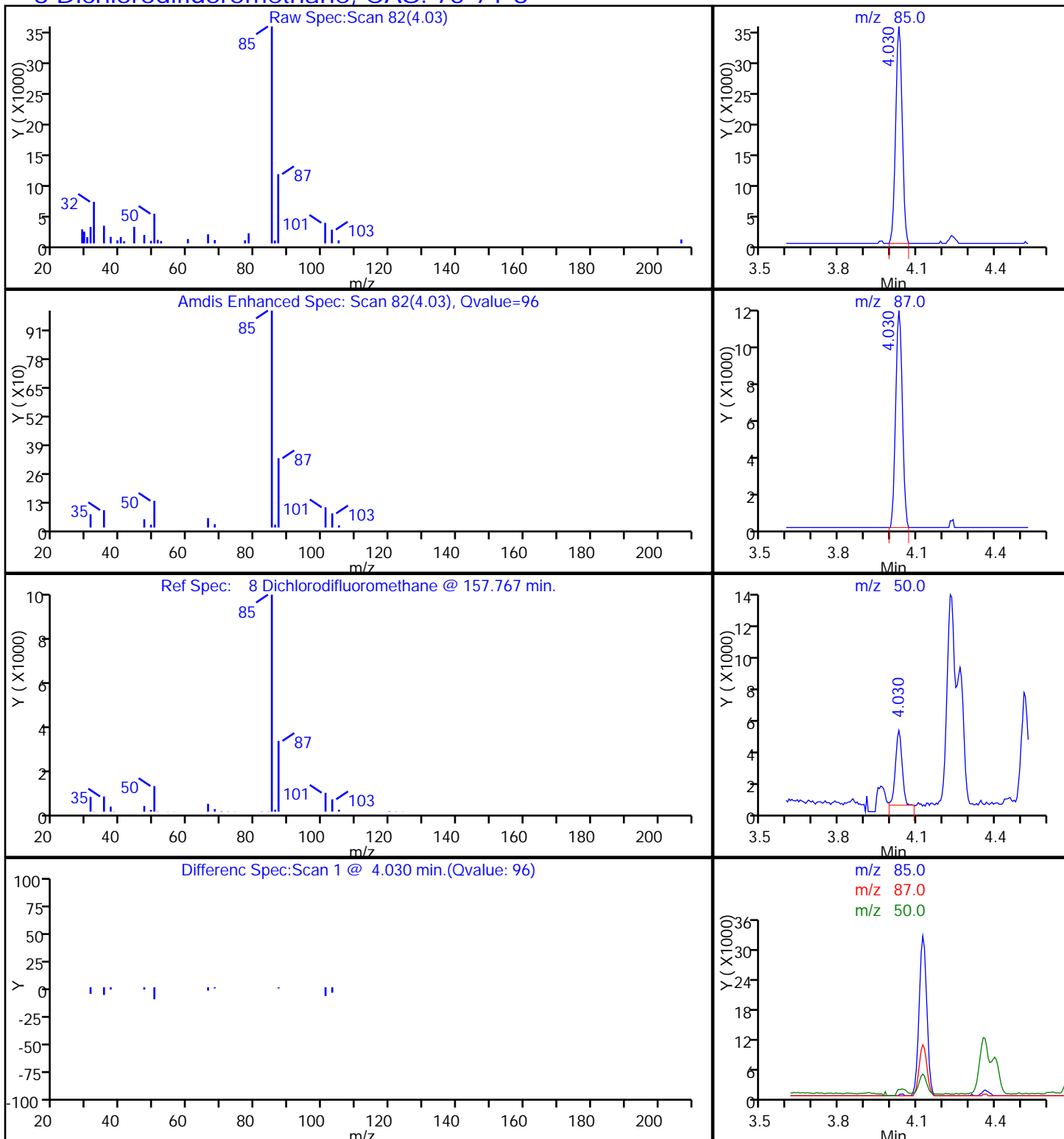
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

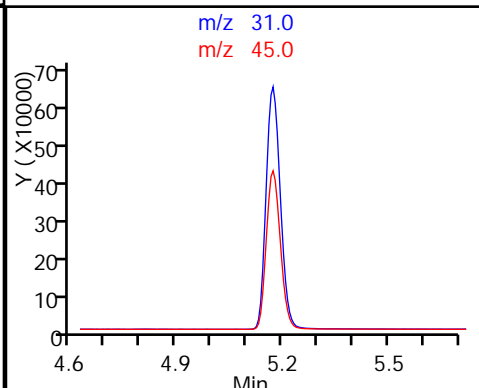
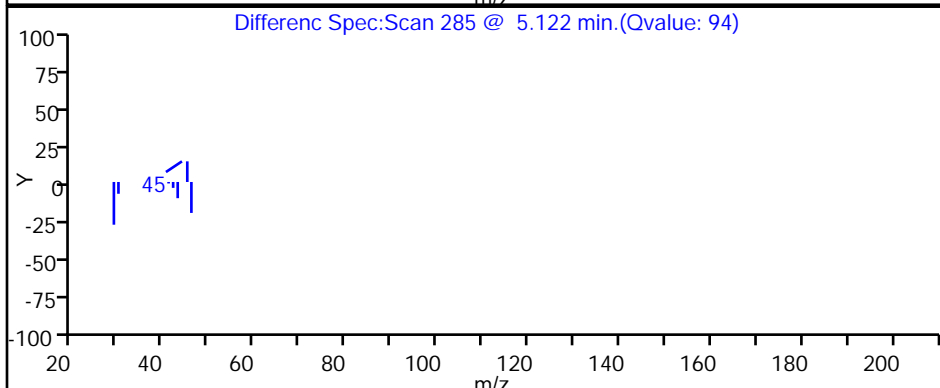
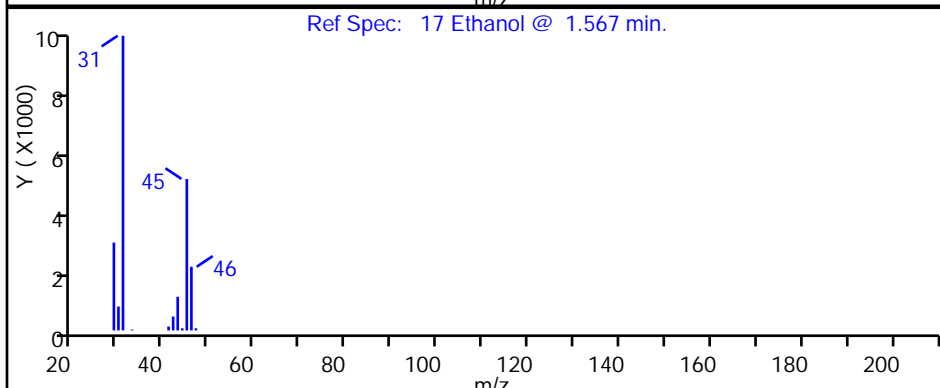
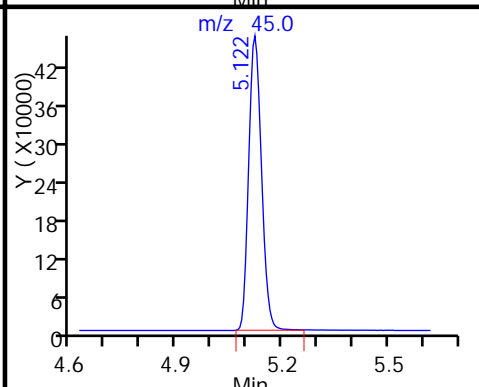
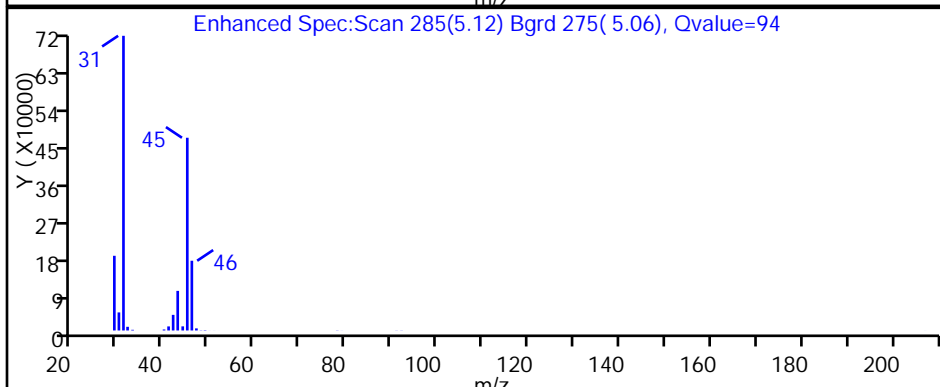
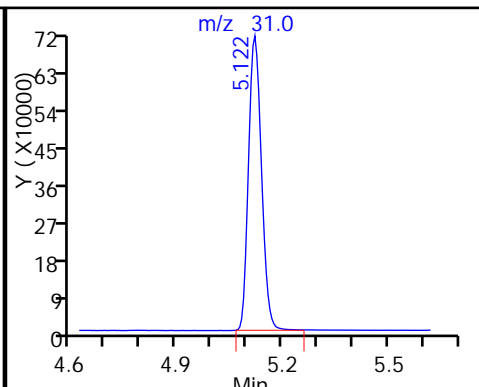
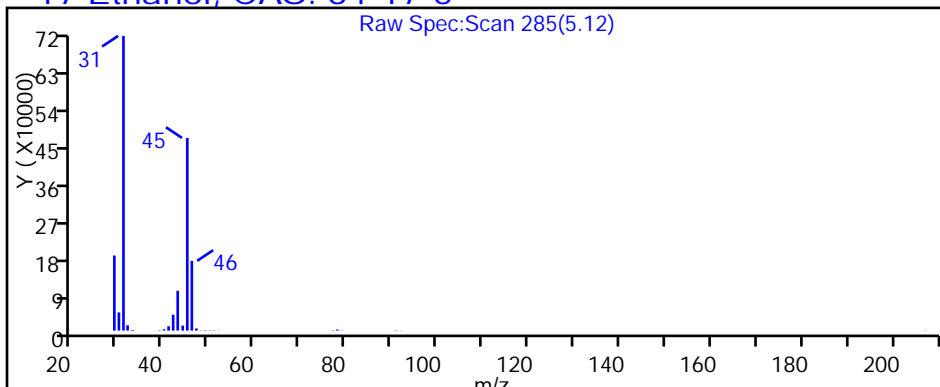
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

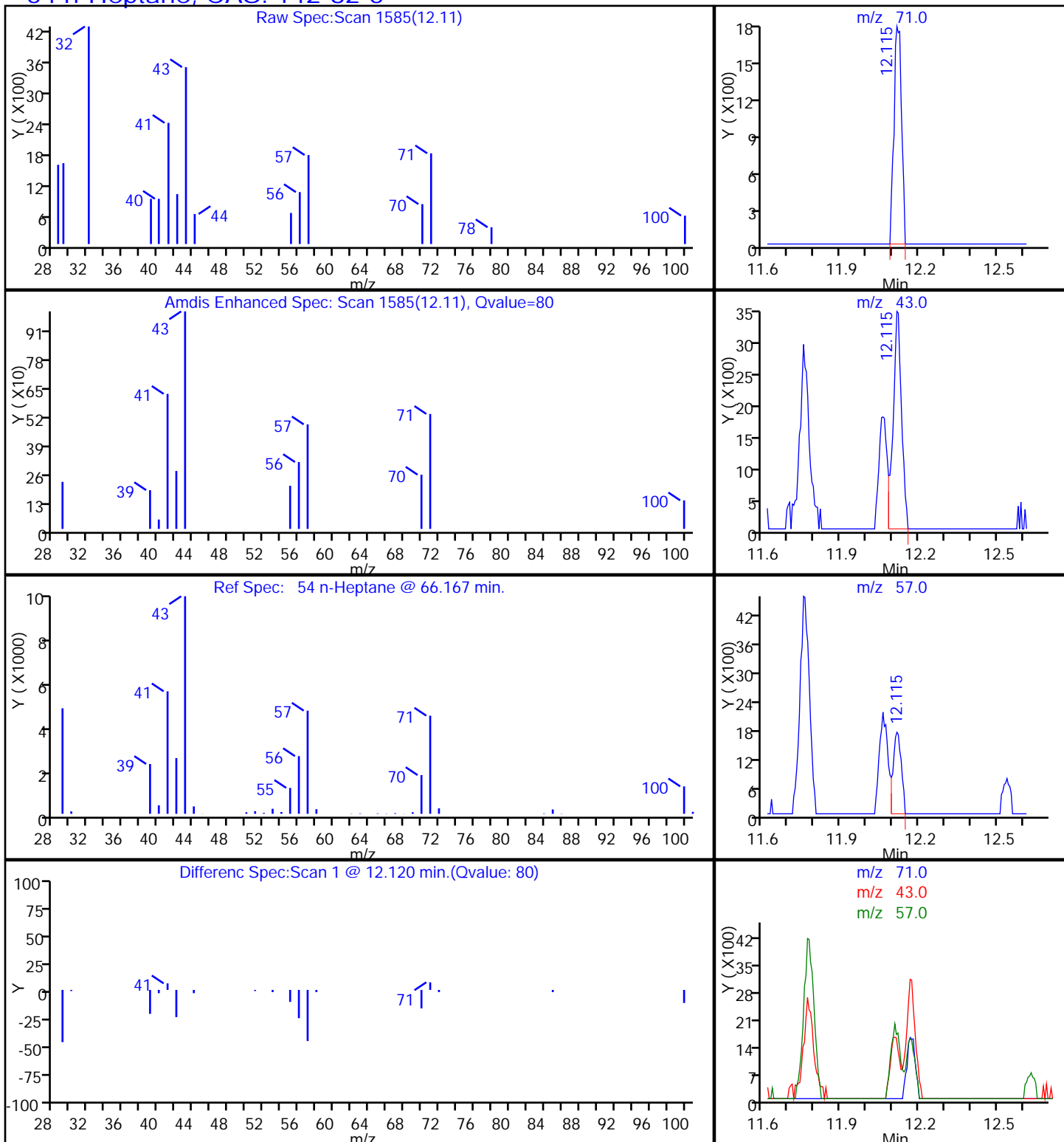
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

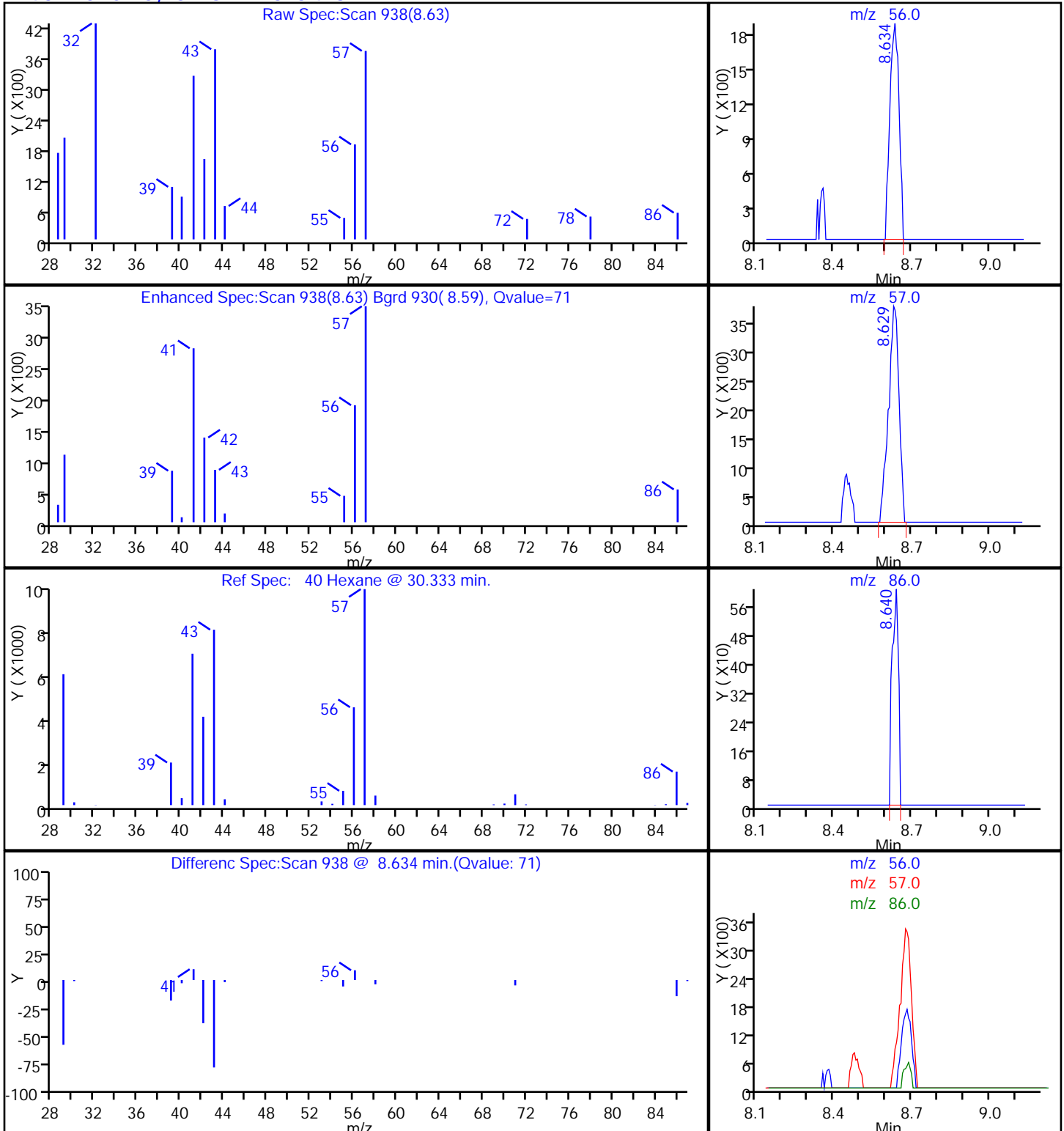
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

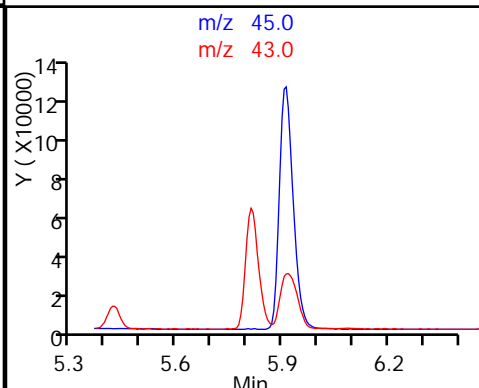
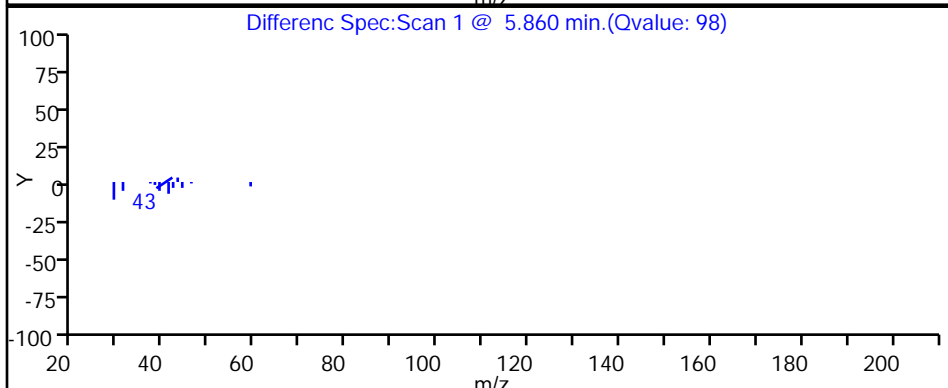
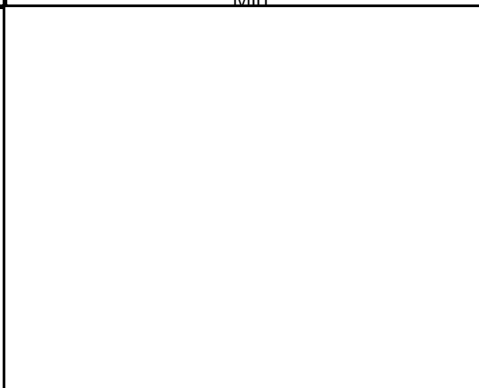
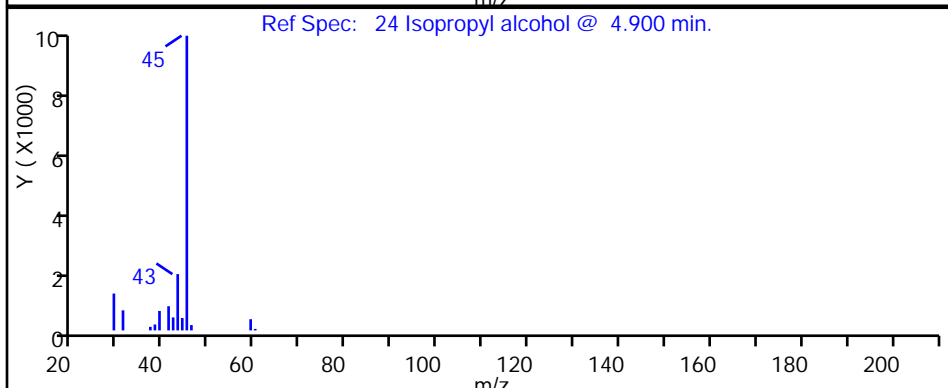
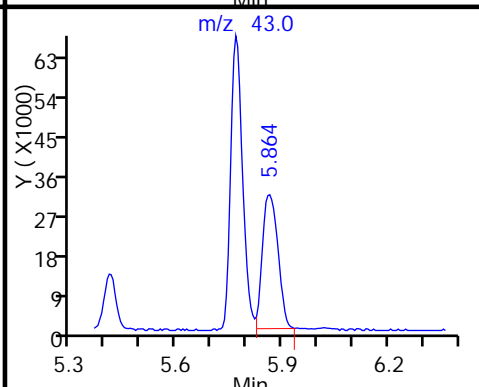
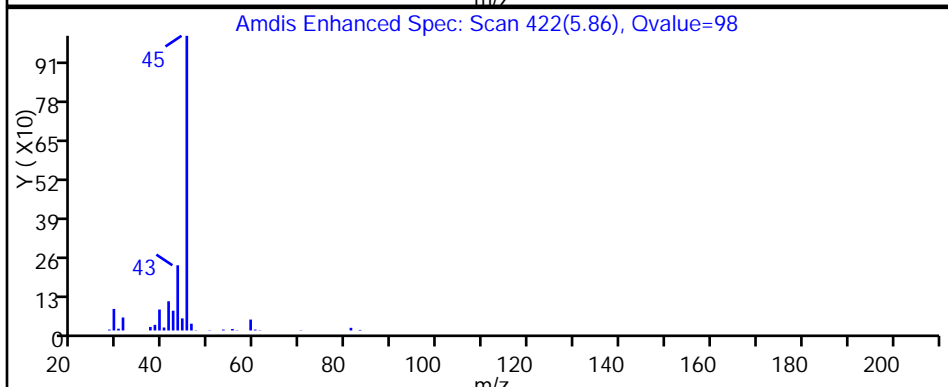
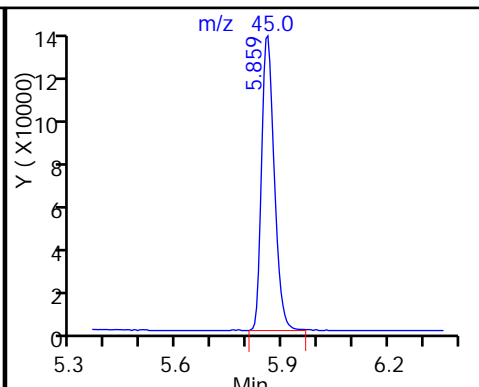
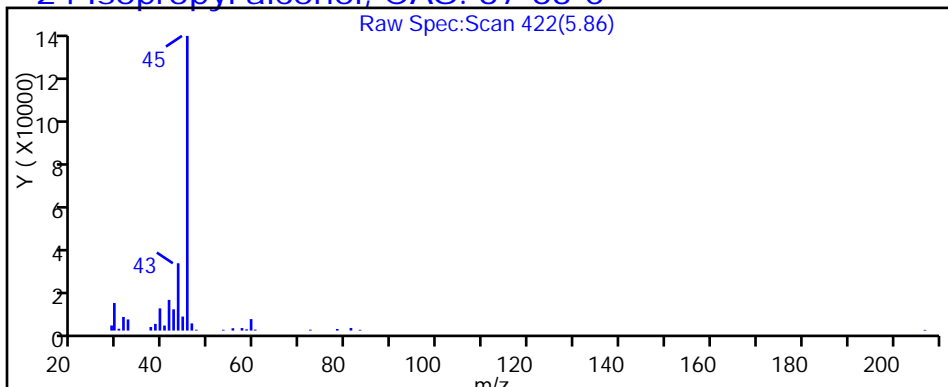
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

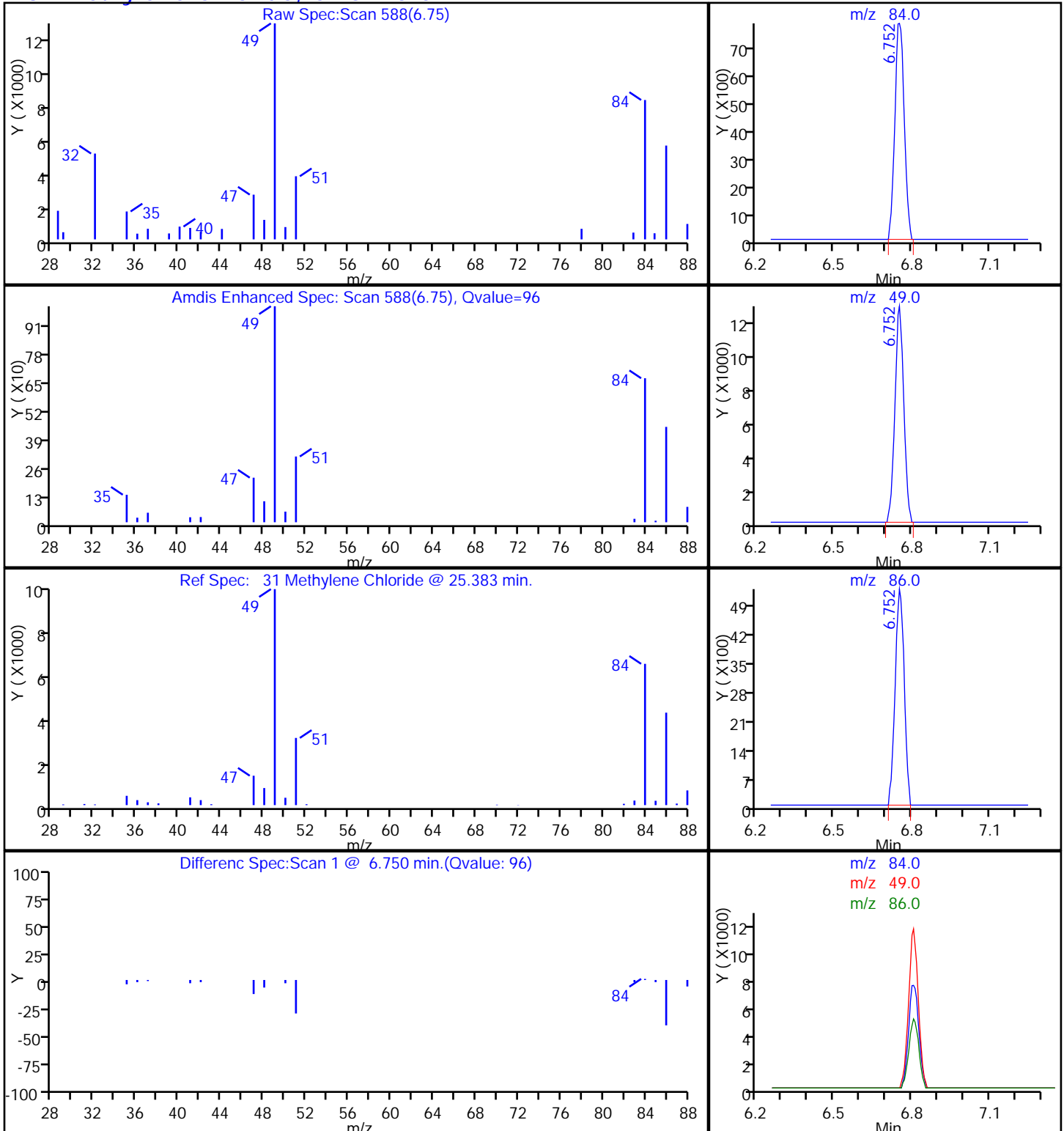
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

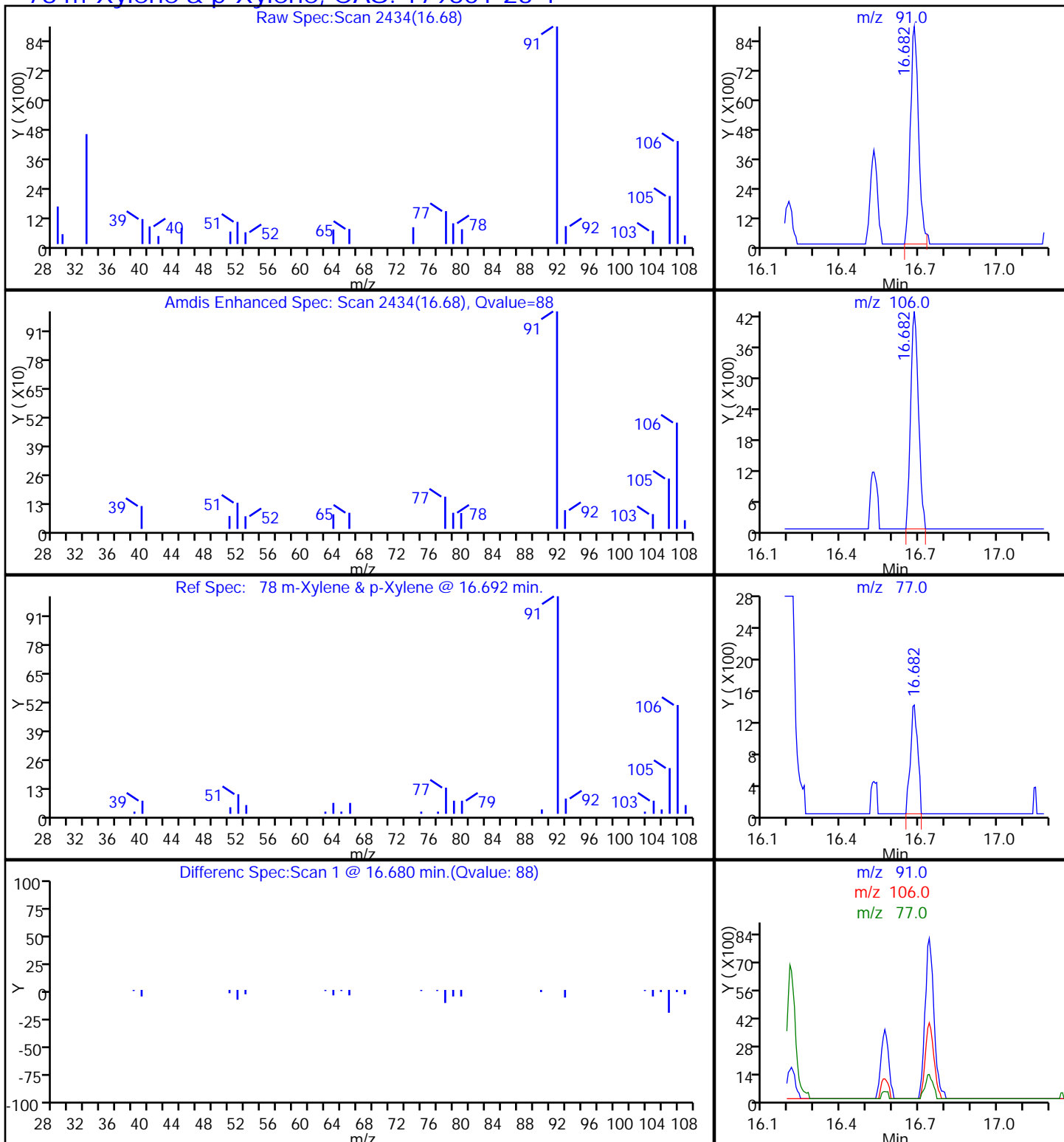
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

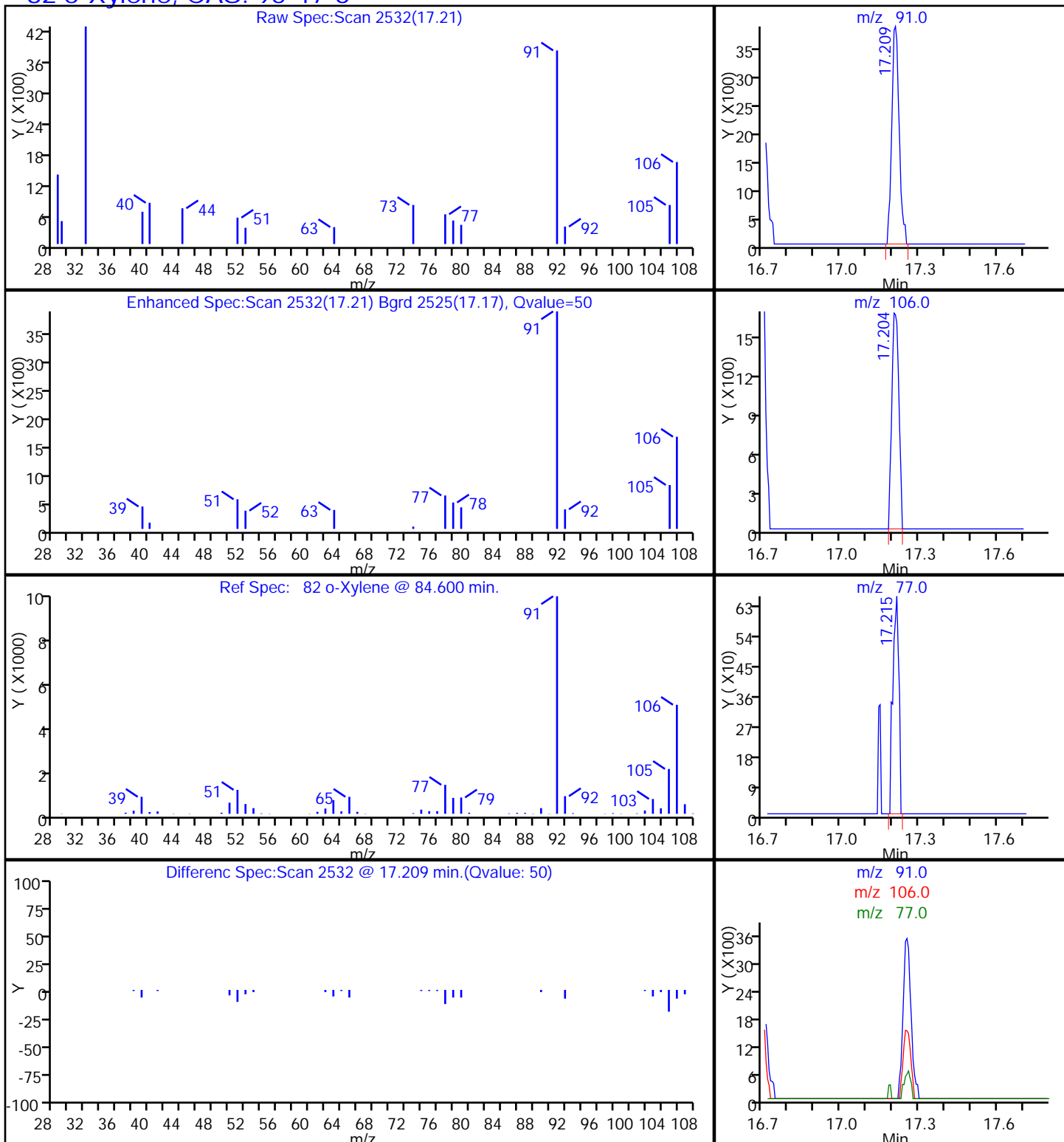
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

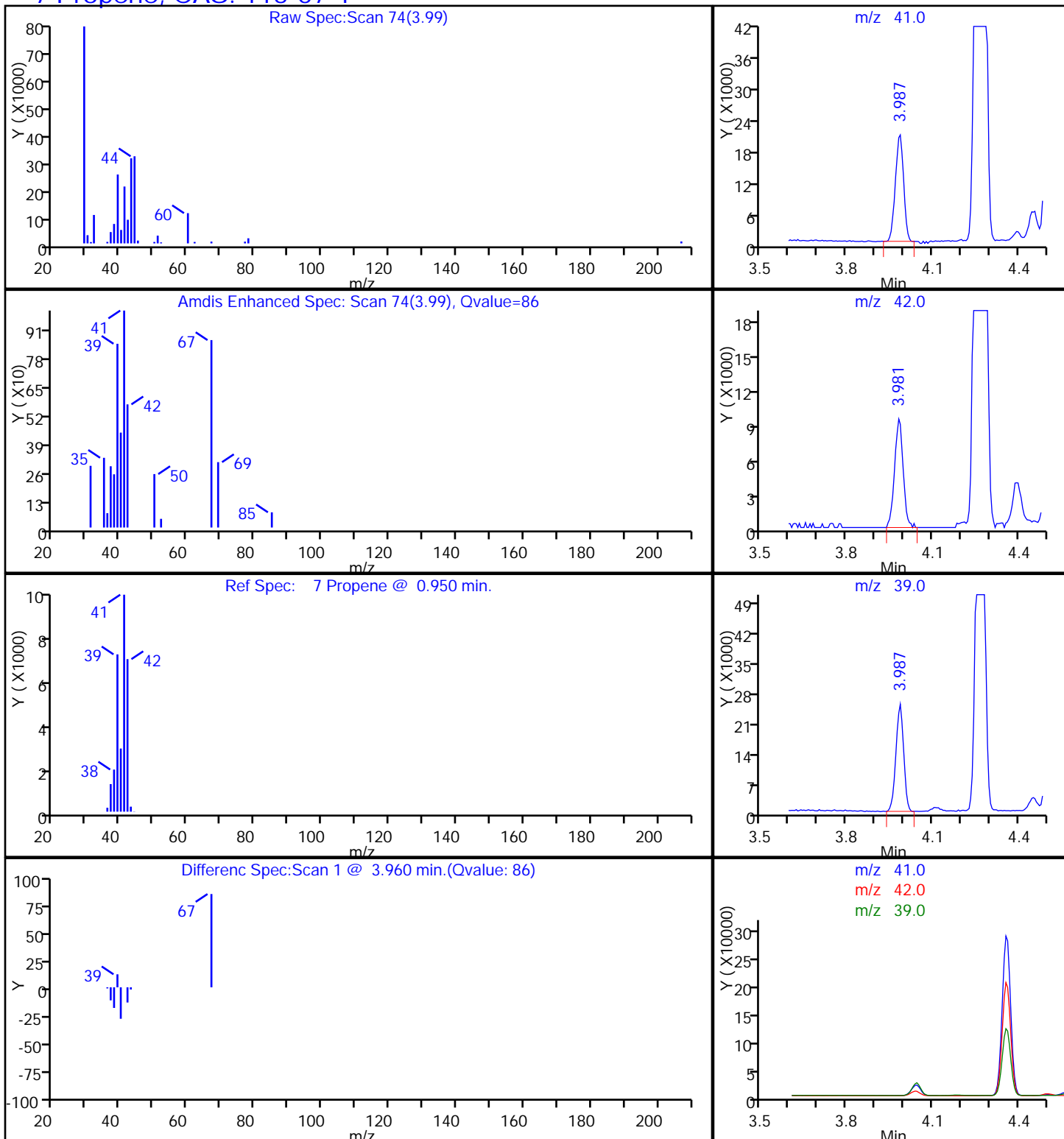
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

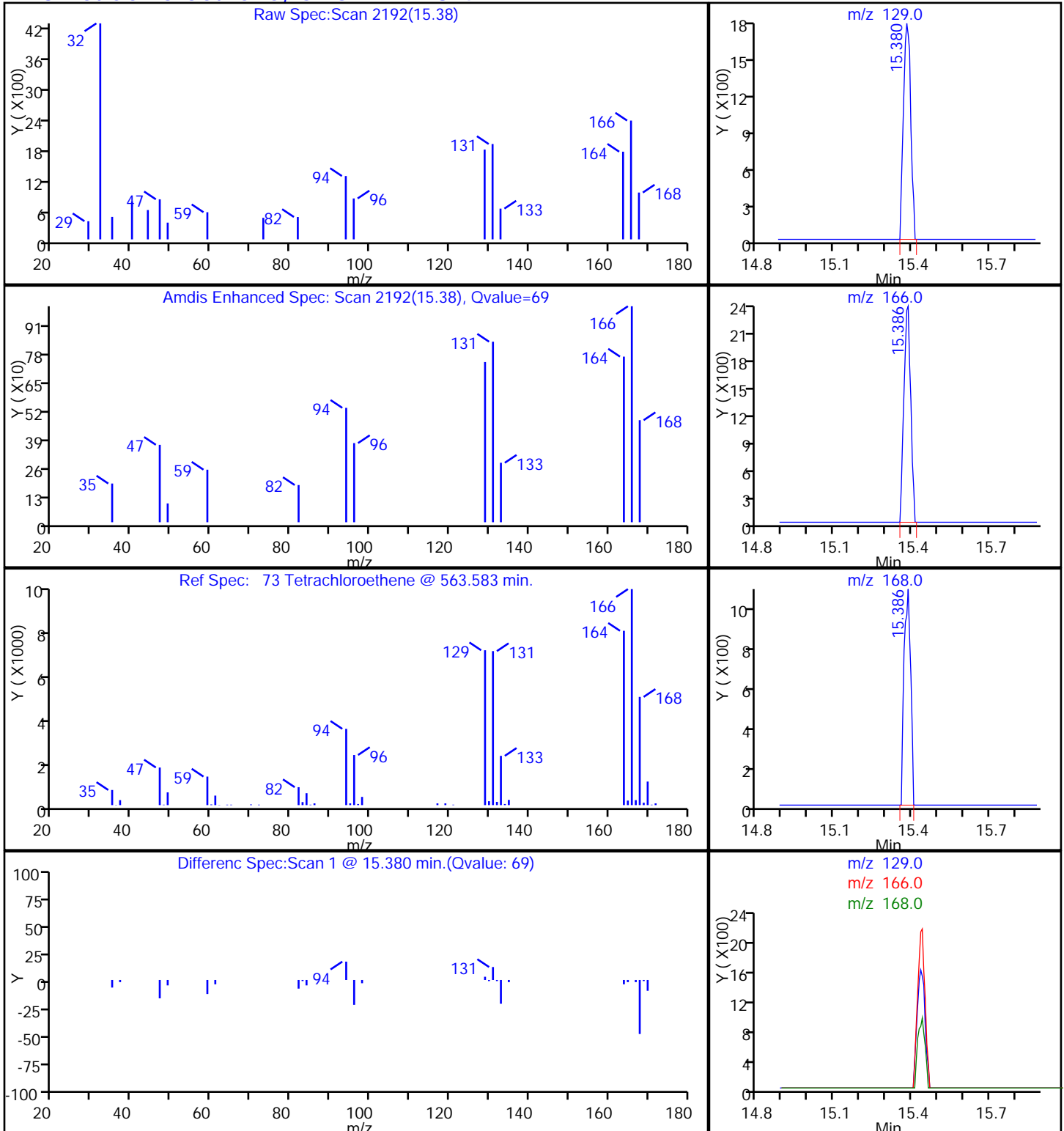
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

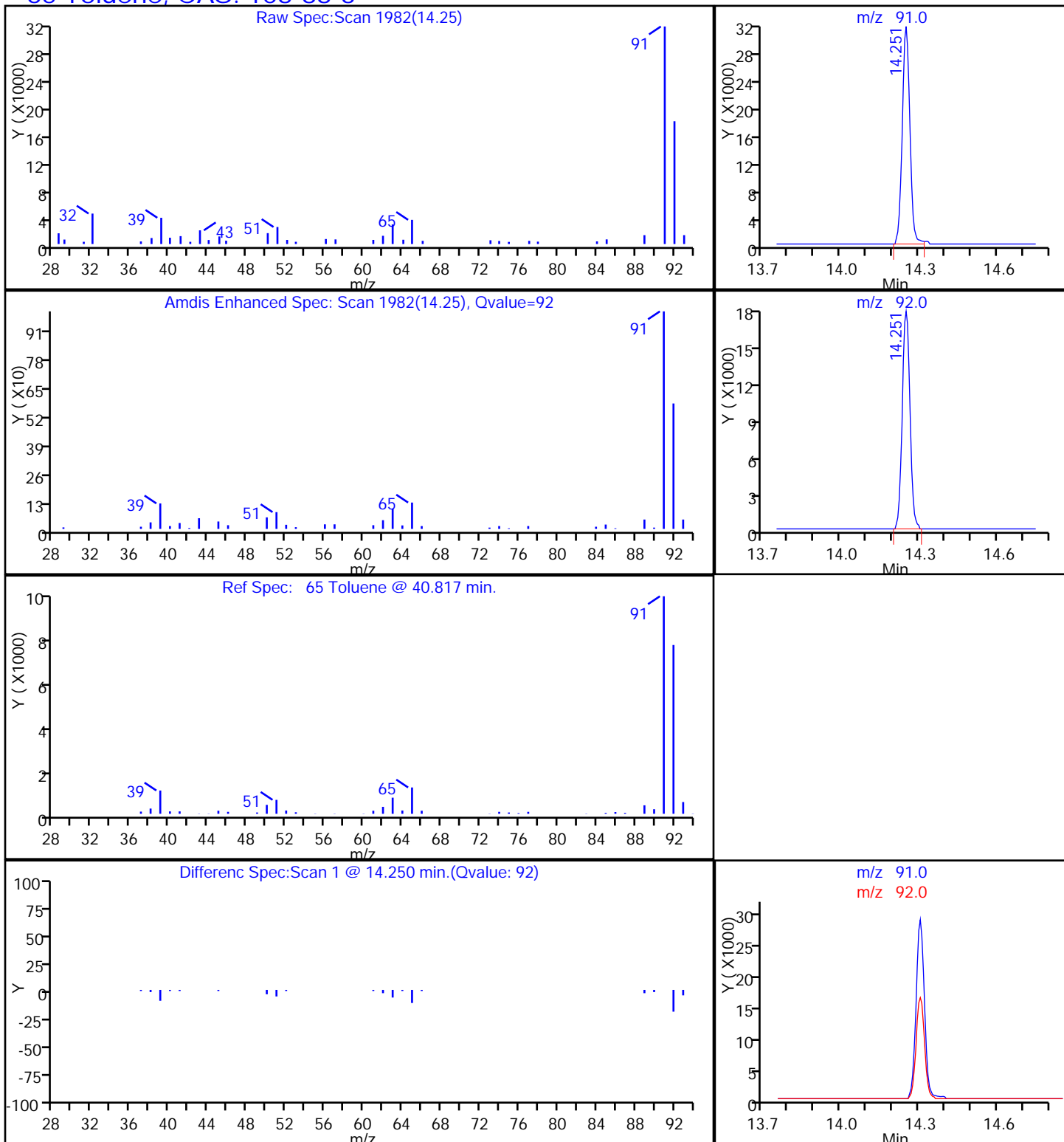
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D

Injection Date: 19-Mar-2014 22:12:30

Instrument ID: MJ

Lims ID: 140-1063-A-22

Lab Sample ID: 140-1063-22

Client ID: IA2-E19

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

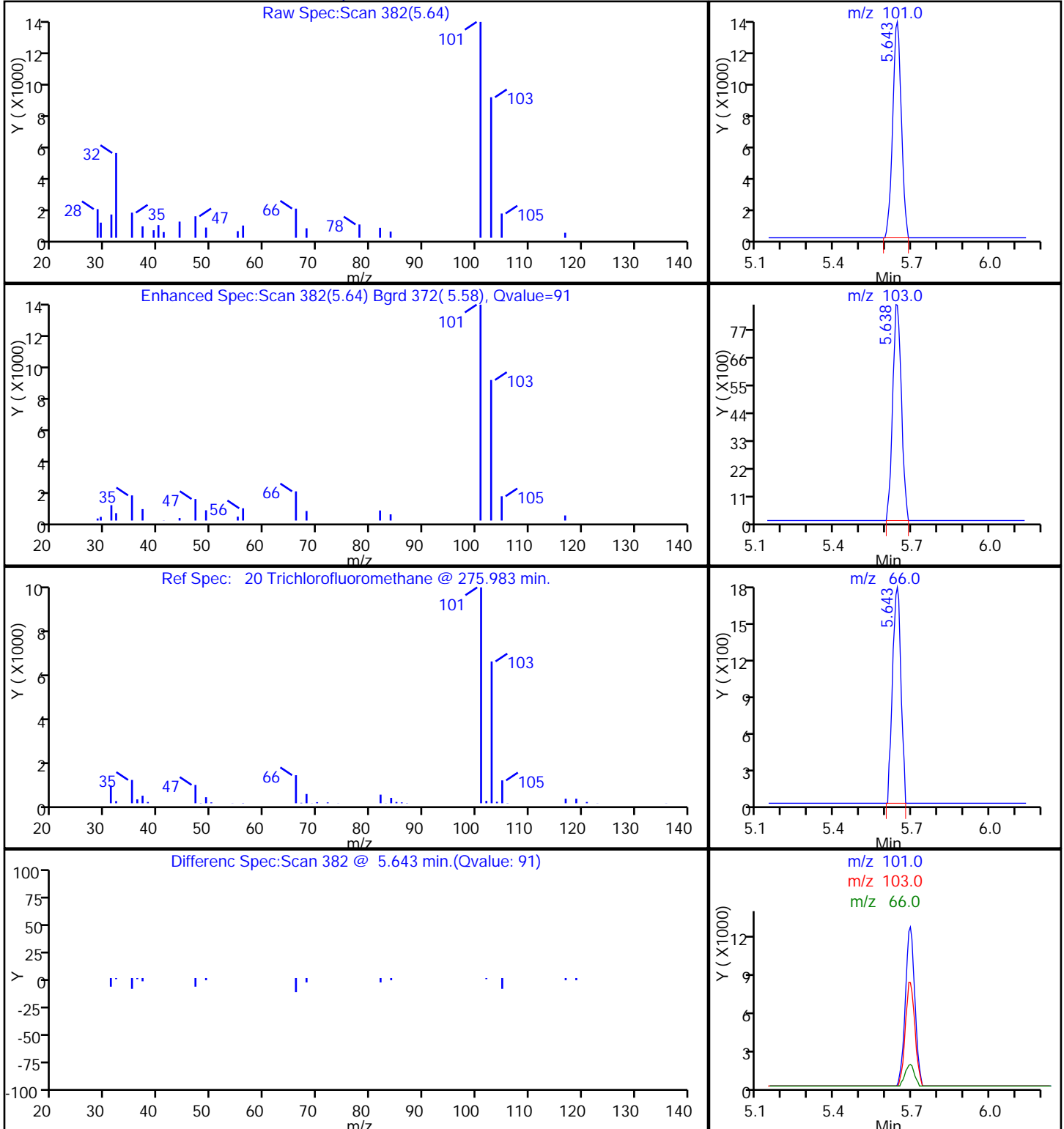
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



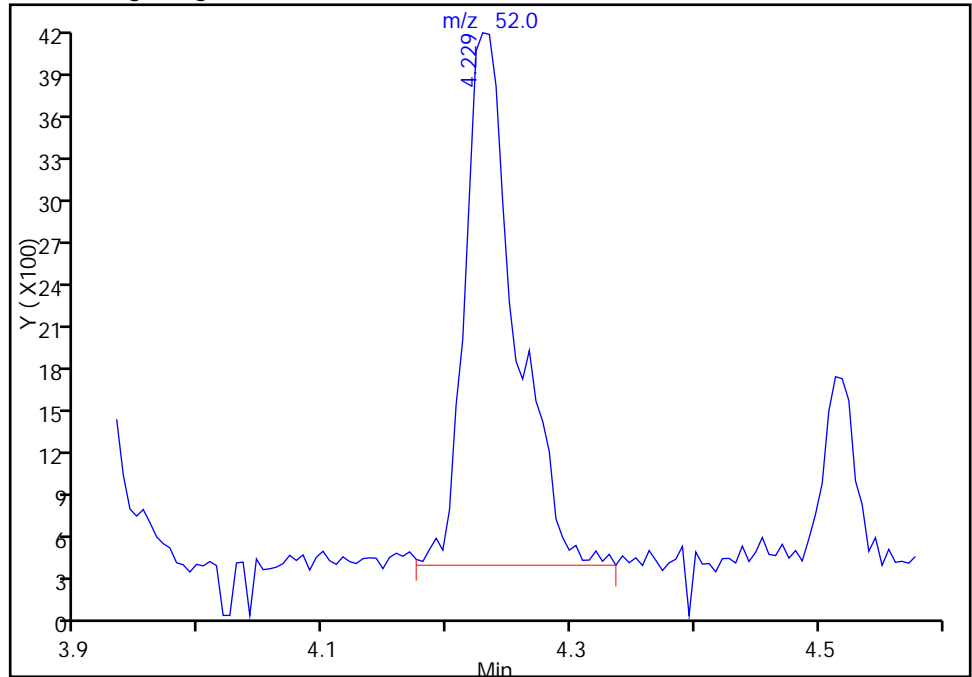
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P107.D
Injection Date: 19-Mar-2014 22:12:30 Instrument ID: MJ
Lims ID: 140-1063-A-22 Lab Sample ID: 140-1063-22
Client ID: IA2-E19
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

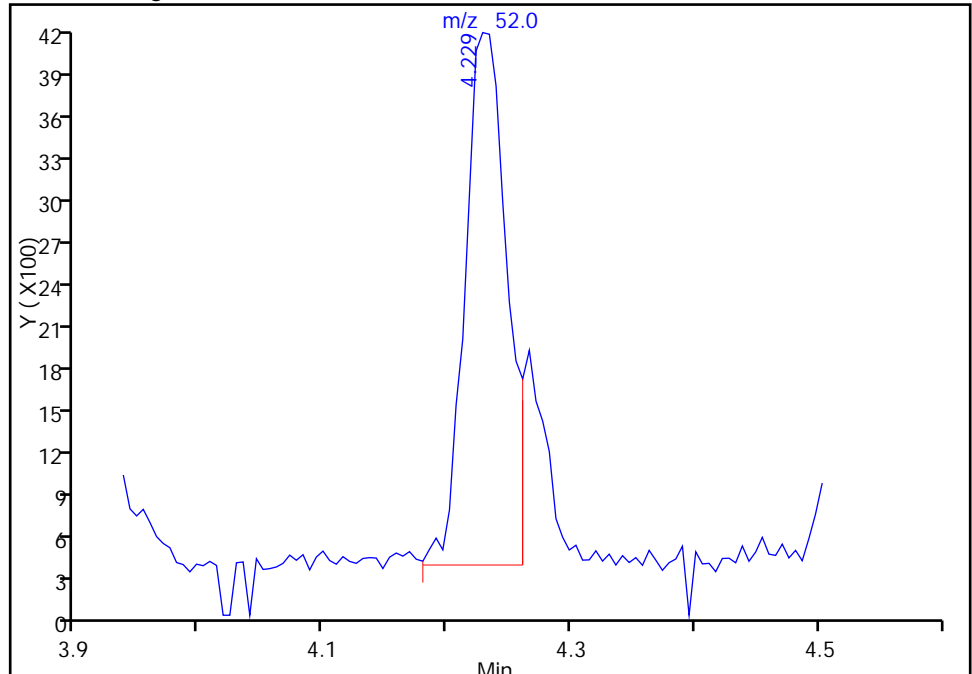
RT: 4.23
Response: 10986
Amount: 0.268382

Processing Integration Results



RT: 4.23
Response: 9152
Amount: 0.223578

Manual Integration Results



Reviewer: liul, 26-Mar-2014 13:30:57
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23
 Matrix: Air Lab File ID: JC19P108.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:17
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.071	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.14	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.36	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.64		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.97		0.50	0.045
67-64-1	Acetone	58.08	2.3	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23
 Matrix: Air Lab File ID: JC19P108.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:17
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.067	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.050	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.60		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	19		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.058	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.12	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.23	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.16	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.063	J	0.20	0.061
115-07-1	Propene	42.08	2.6	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.050	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.82		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23
 Matrix: Air Lab File ID: JC19P108.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:17
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23
 Matrix: Air Lab File ID: JC19P108.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:17
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.31	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.1	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.0		2.0	0.18
67-64-1	Acetone	58.08	5.5	J	12	3.3
71-43-2	Benzene	78.11	0.76		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23
 Matrix: Air Lab File ID: JC19P108.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:17
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.25	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	35		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.24	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.41	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	14		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.81	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.70	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.28	J	0.87	0.26
115-07-1	Propene	42.08	4.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.34	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	3.1		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1-E17 Lab Sample ID: 140-1063-23
 Matrix: Air Lab File ID: JC19P108.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 15:17
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 23:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D
 Lims ID: 140-1063-A-23 Lab Sample ID: 140-1063-23
 Client ID: IA1-E17
 Sample Type: Client
 Inject. Date: 19-Mar-2014 23:06:30 ALS Bottle#: 8 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-23
 Misc. Info.: J031914,TO15,,140-0000532-014
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:50:06 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:46:30

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.385	-0.008	90	359685	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1752520	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1459544	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	974689	3.78	
7 Propene	41	3.981	3.973	0.008	58	113389	1.03	
8 Dichlorodifluoromethane	85	4.030	4.032	-0.002	99	61146	0.1716	
9 Chloromethane	52	4.229	4.231	-0.002	94	9647	0.2384	
14 Butadiene	54	4.514	4.516	-0.002	26	5177	0.0559	
17 Ethanol	31	5.116	5.119	-0.003	95	215396	7.46	
19 2-Methylbutane	43	5.407	5.409	-0.002	92	39132	0.2562	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	87	25622	0.0819	
23 Acetone	58	5.767	5.770	-0.003	99	47375	0.9266	
24 Isopropyl alcohol	45	5.842	5.850	-0.008	97	318019	2.36	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.579	6.582	-0.003	68	6136	0.0283	
31 Methylene Chloride	84	6.752	6.754	-0.002	82	9003	0.0936	
39 2-Butanone (MEK)	72	8.591	8.589	0.002	93	4908	0.1442	
40 Hexane	56	8.629	8.637	-0.008	66	4496	0.0465	
43 Chloroform	83	9.393	9.396	-0.003	4	4216	0.0201	
48 Benzene	78	11.017	11.026	-0.009	89	28597	0.0951	
50 Carbon tetrachloride	117	11.044	11.047	-0.003	77	6674	0.0269	
54 n-Heptane	71	12.115	12.123	-0.008	78	2448	0.0230	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.371	0.003	96	71044	0.3867	
65 Toluene	91	14.251	14.253	-0.002	92	89141	0.3292	
73 Tetrachloroethene	129	15.380	15.383	-0.003	61	2505	0.0199	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	88	15536	0.0644	
82 o-Xylene	91	17.204	17.212	-0.008	28	6200	0.0253	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Worklist Smp#: 14

Client ID: IA1-E17

Purge Vol: 500.000 mL

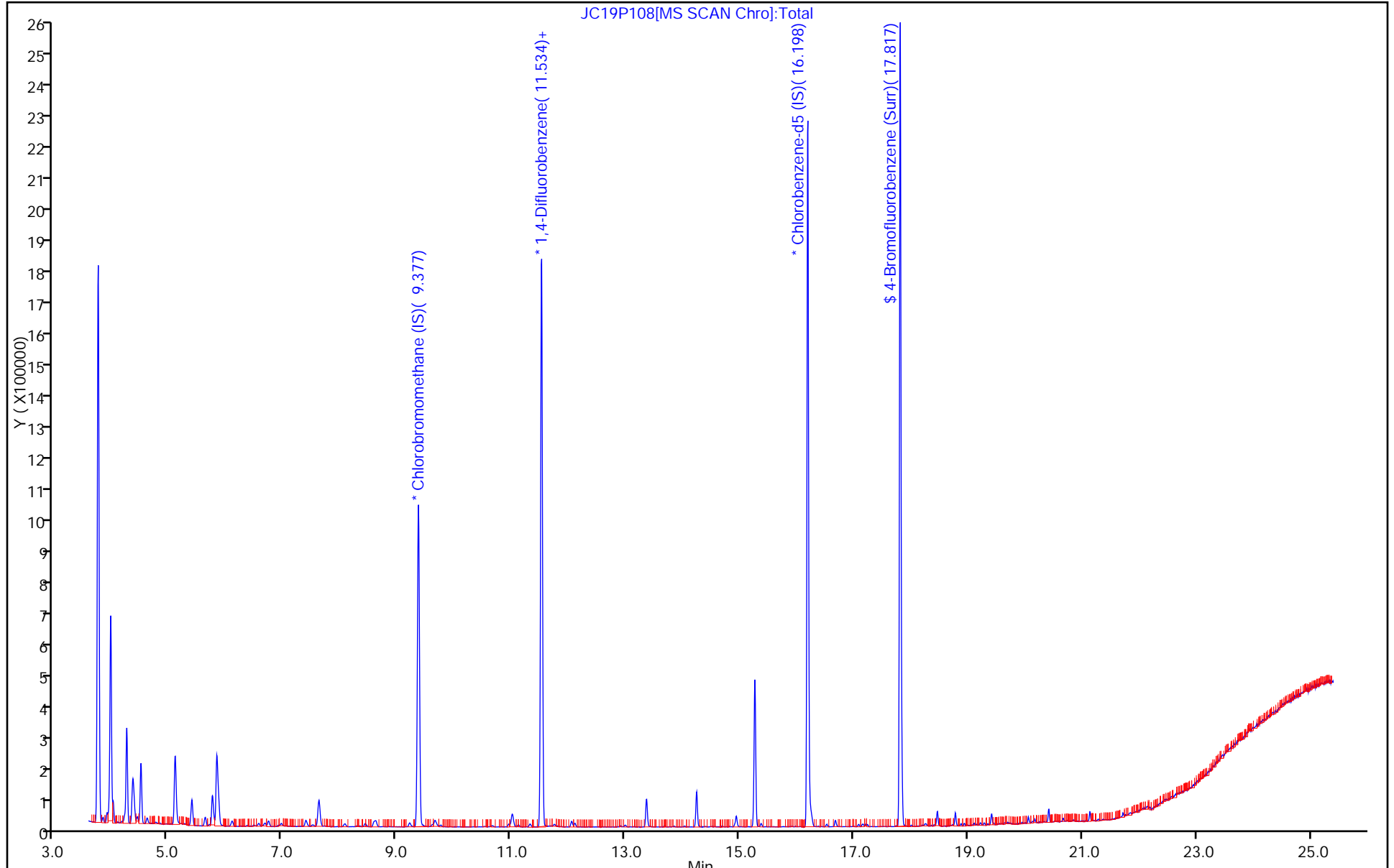
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

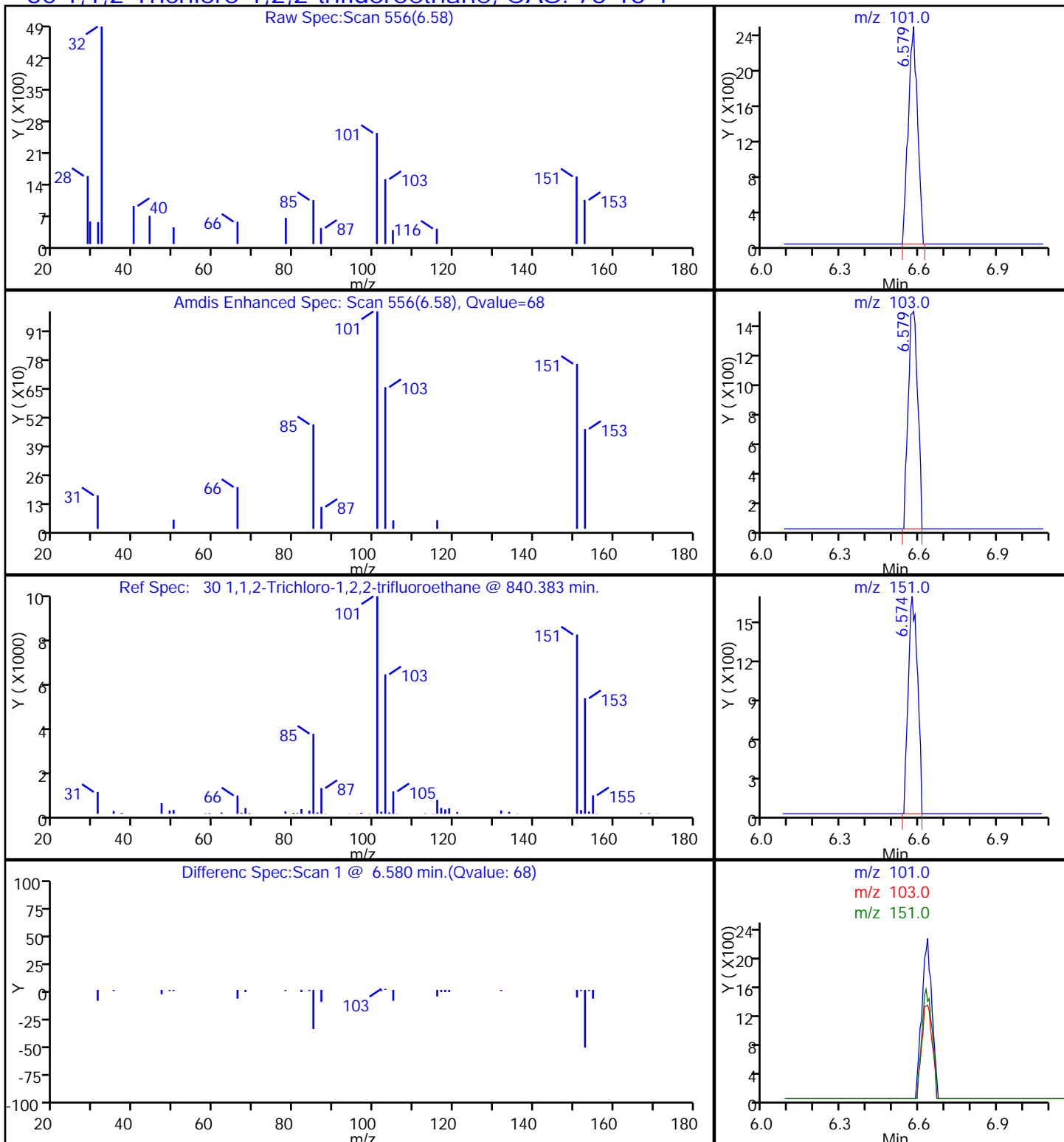
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

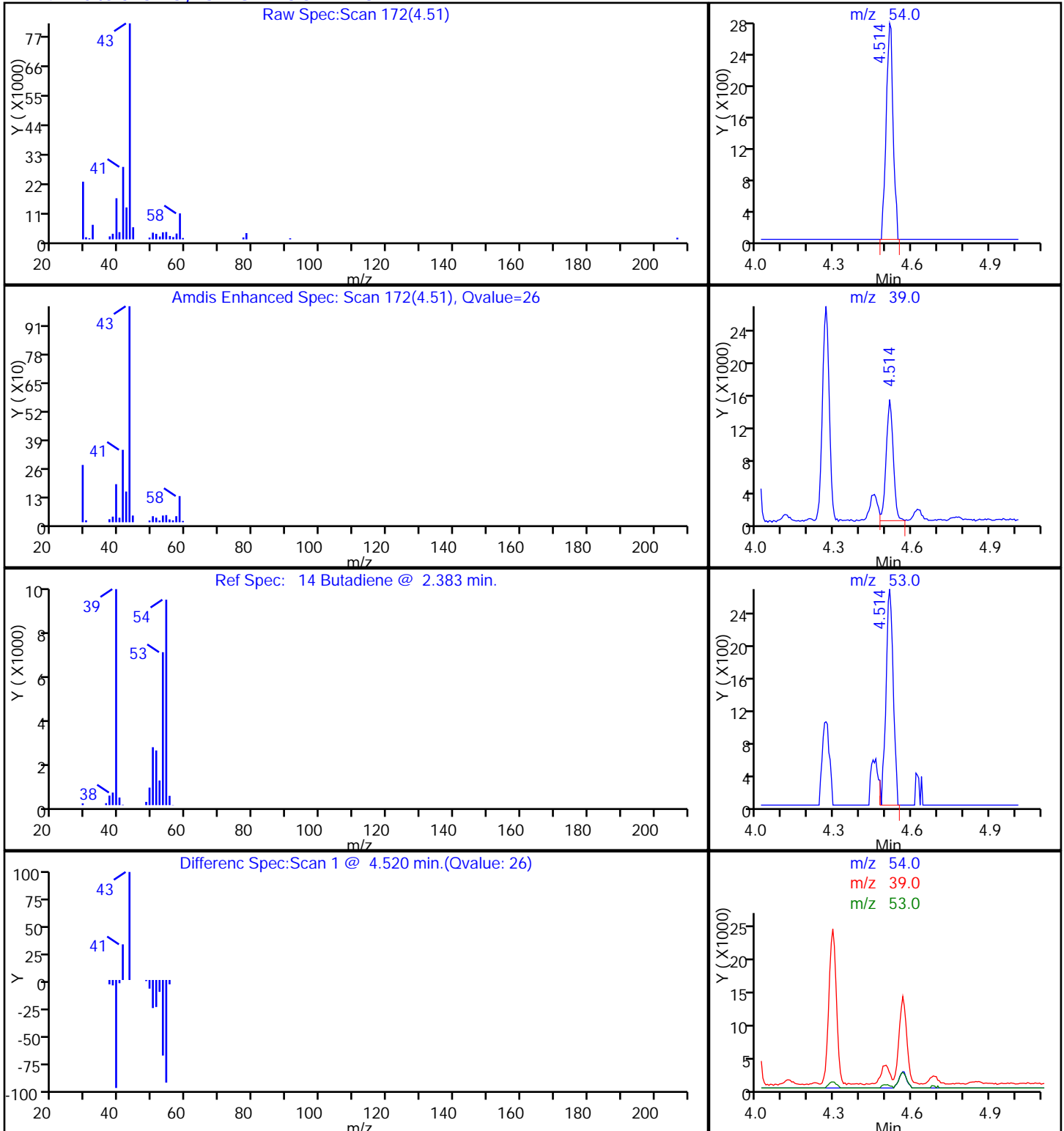
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

14 Butadiene, CAS: 106-99-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

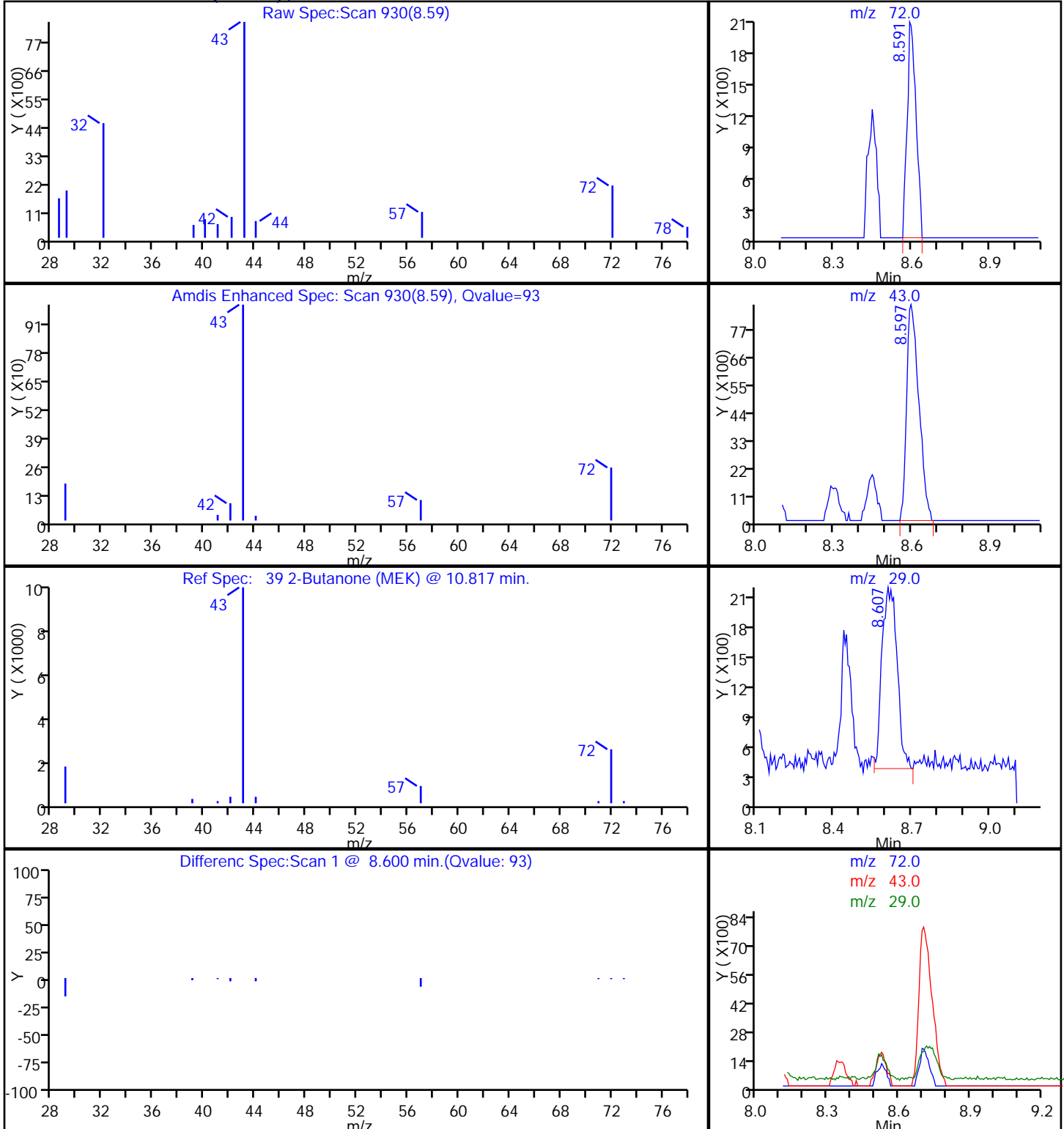
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

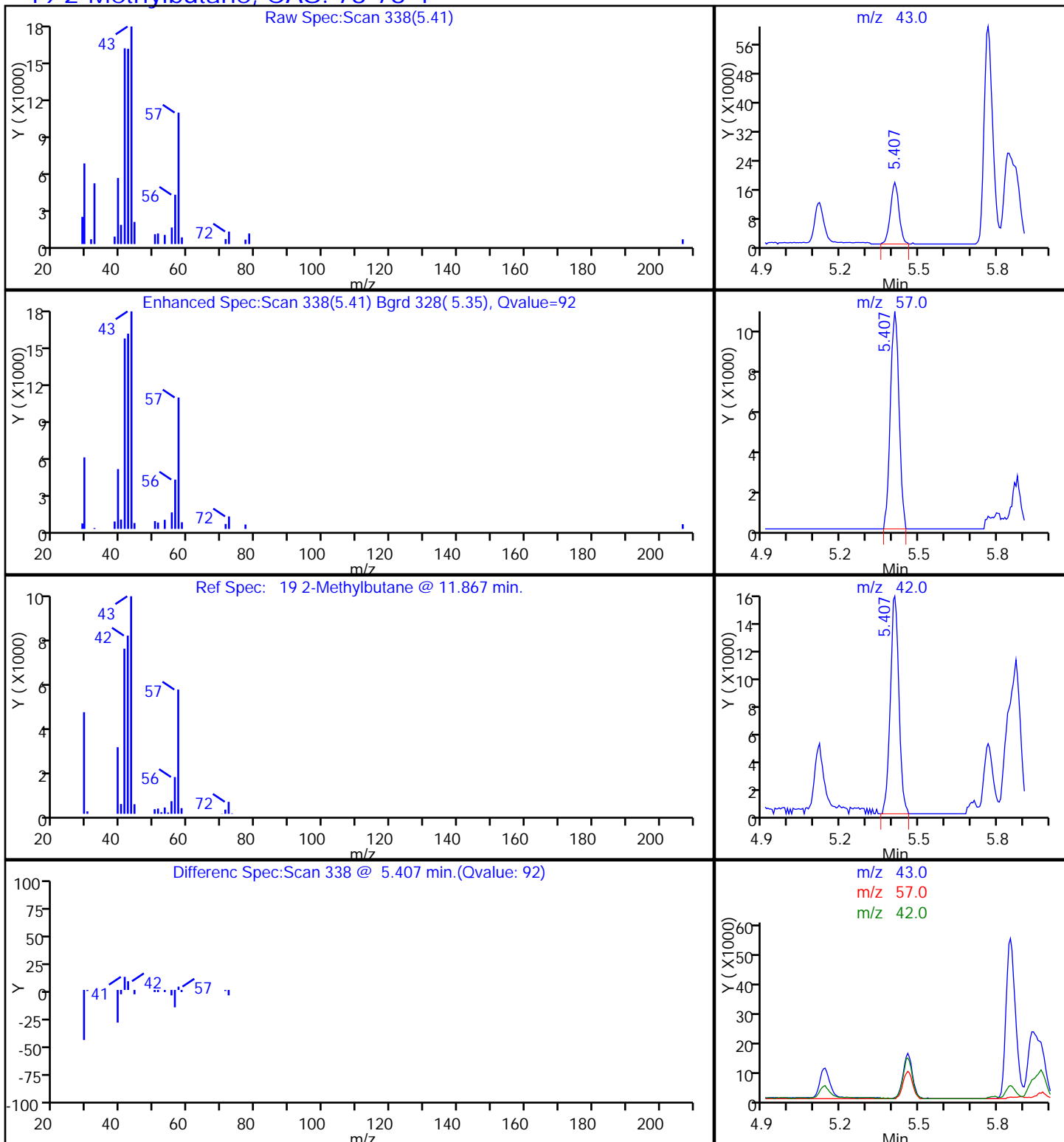
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

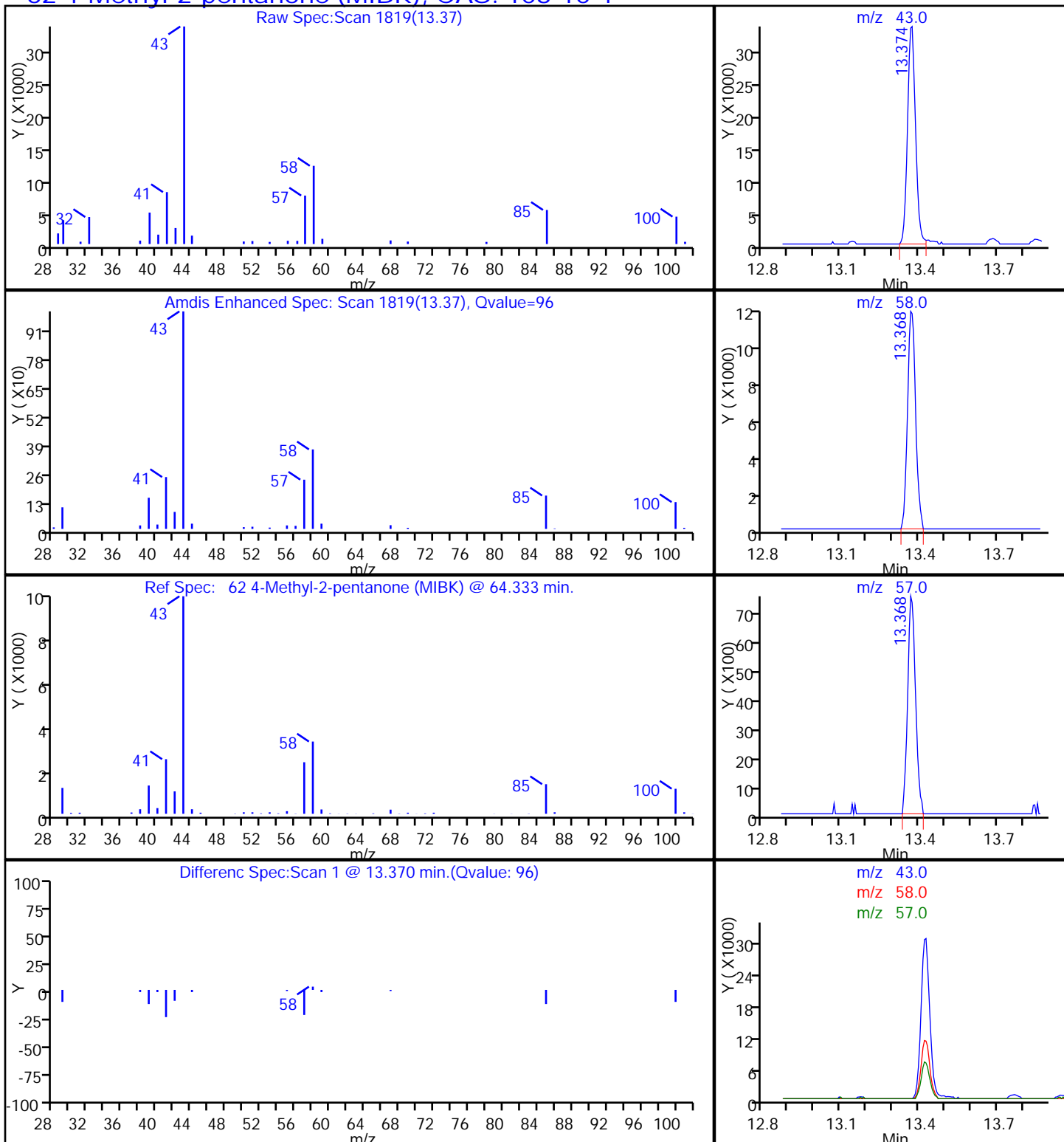
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

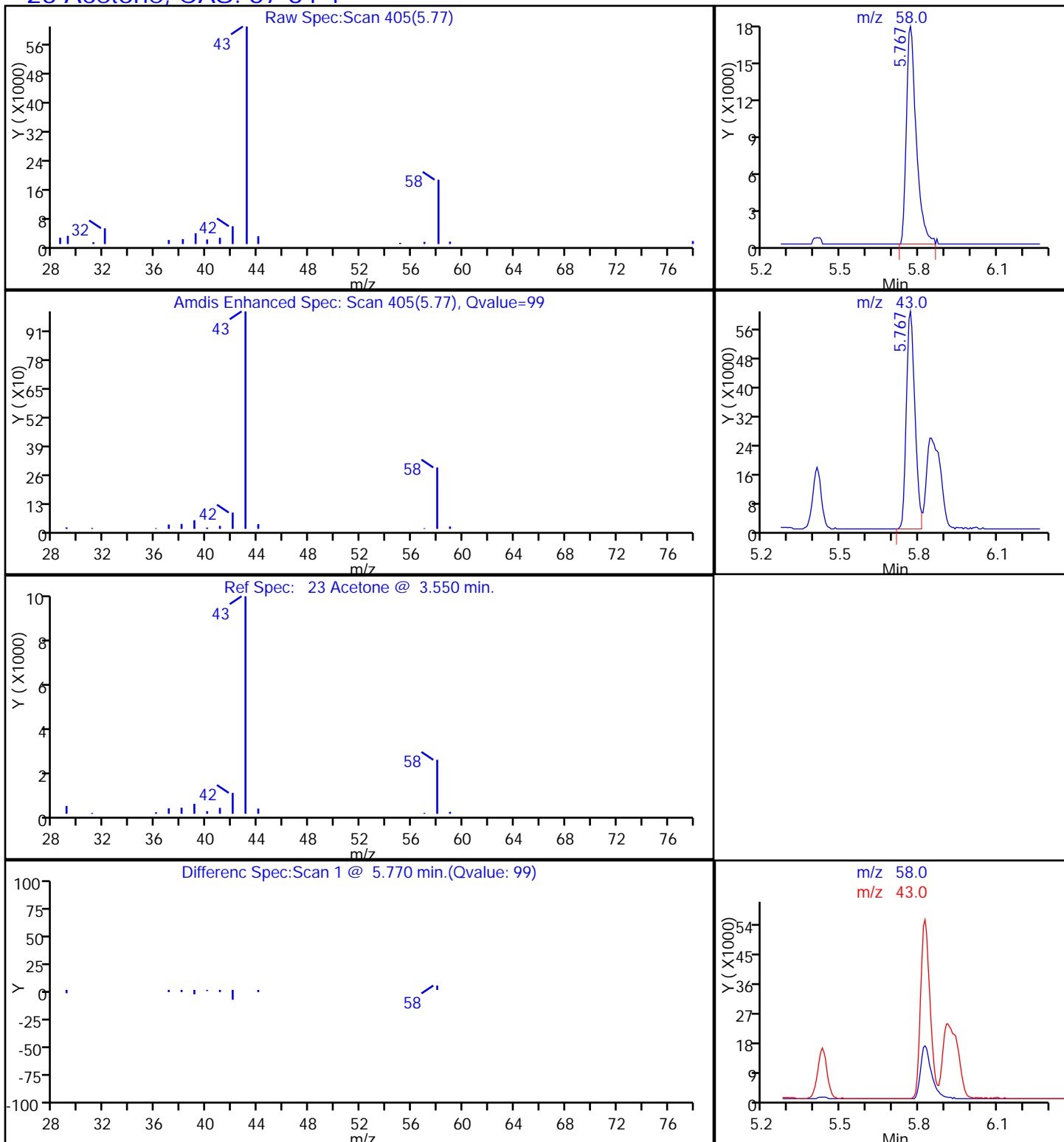
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

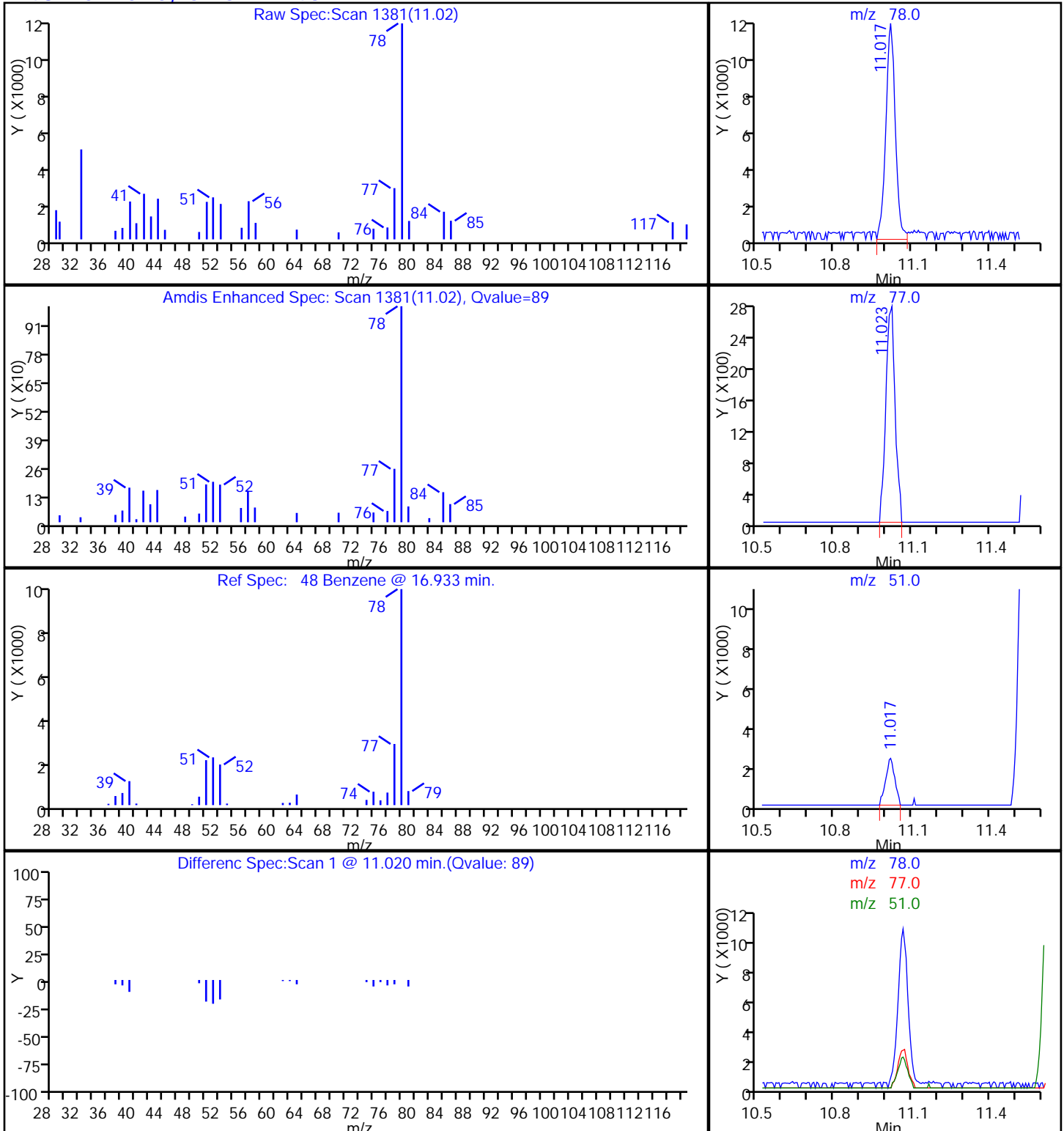
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

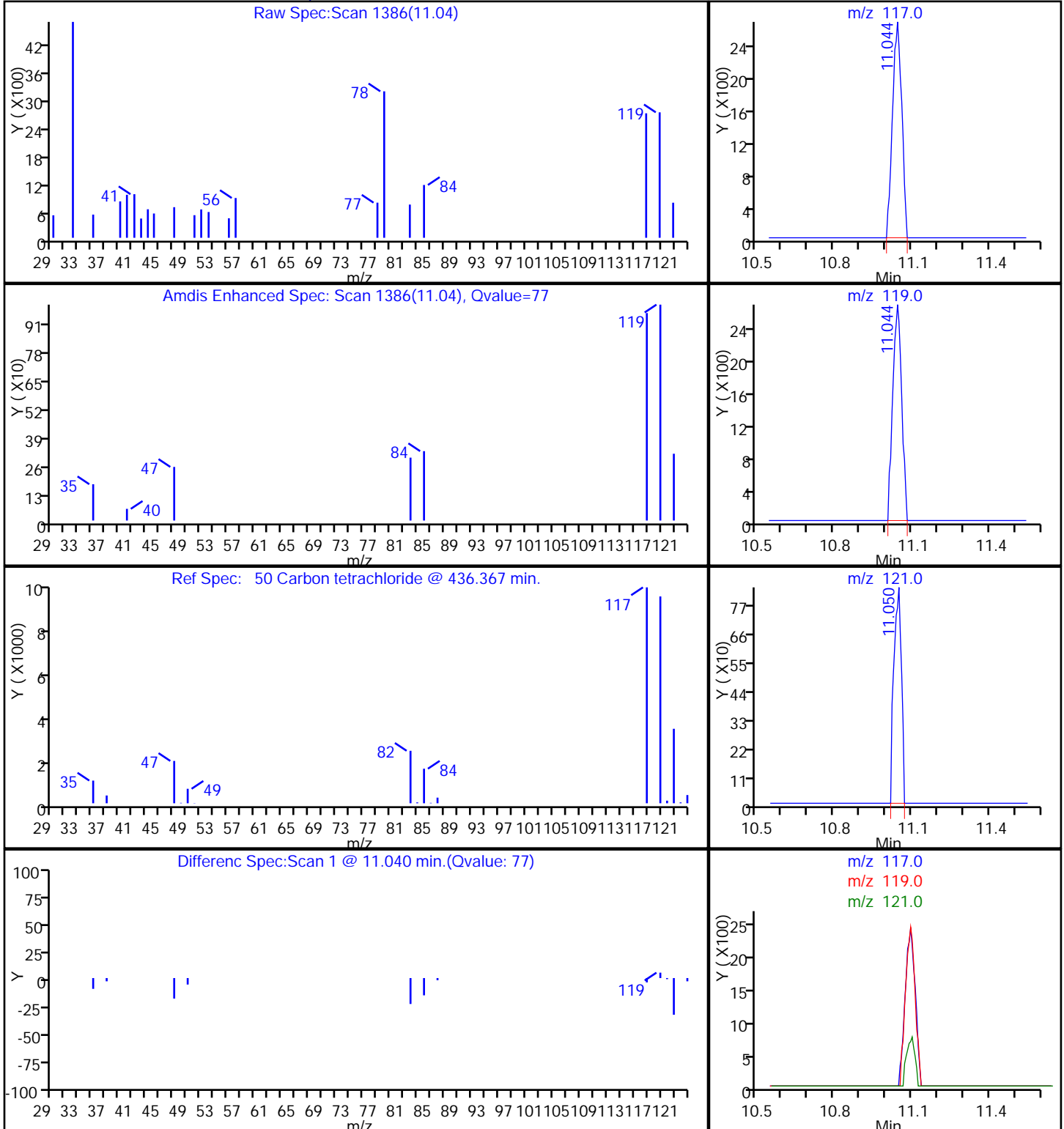
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

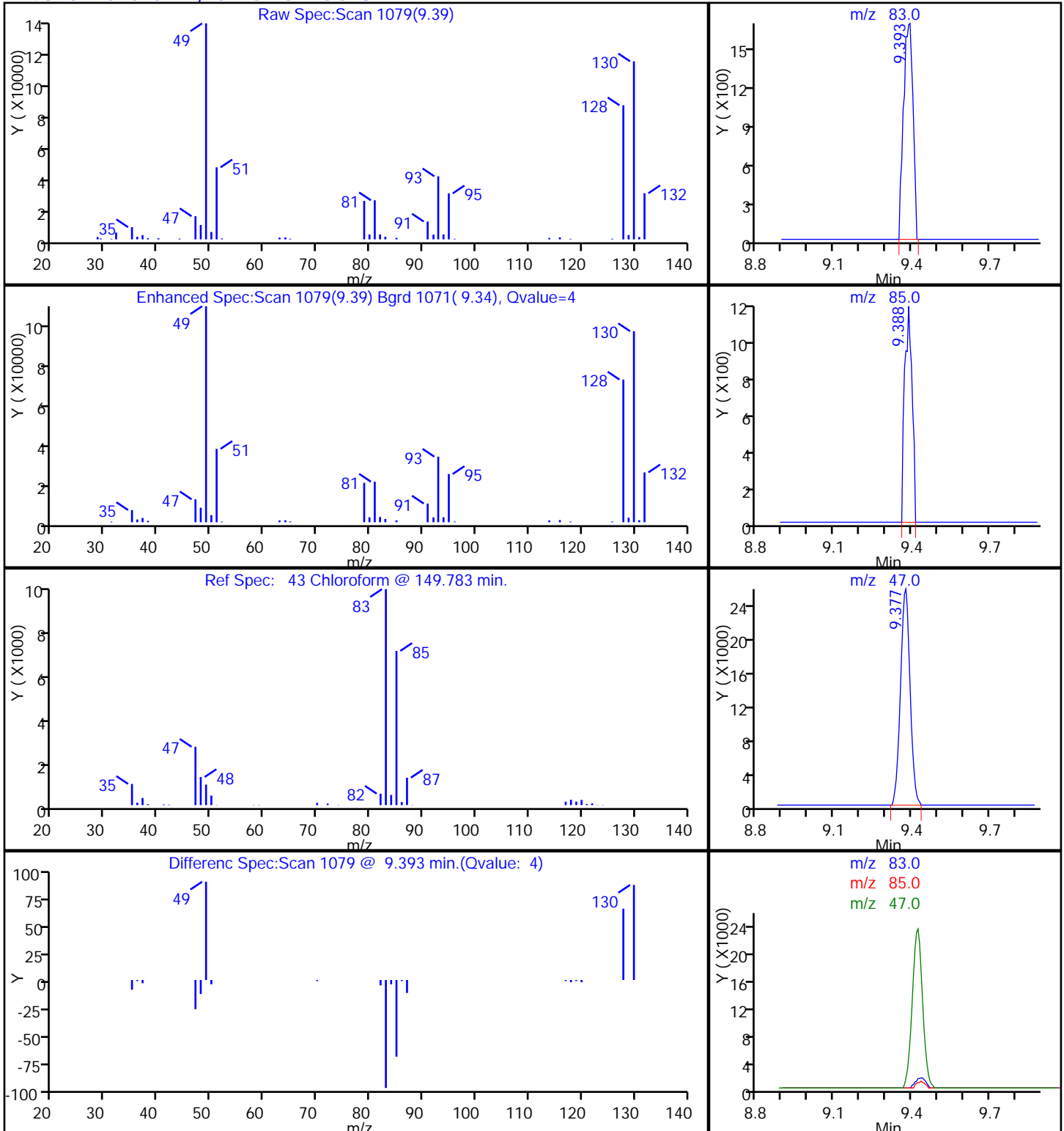
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

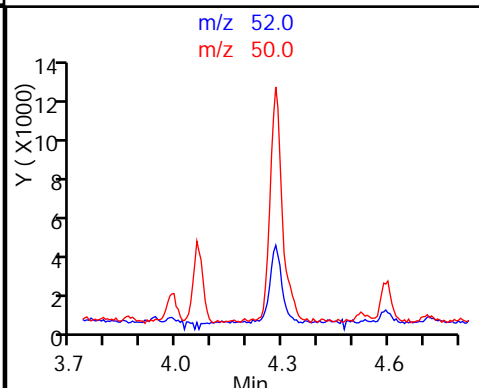
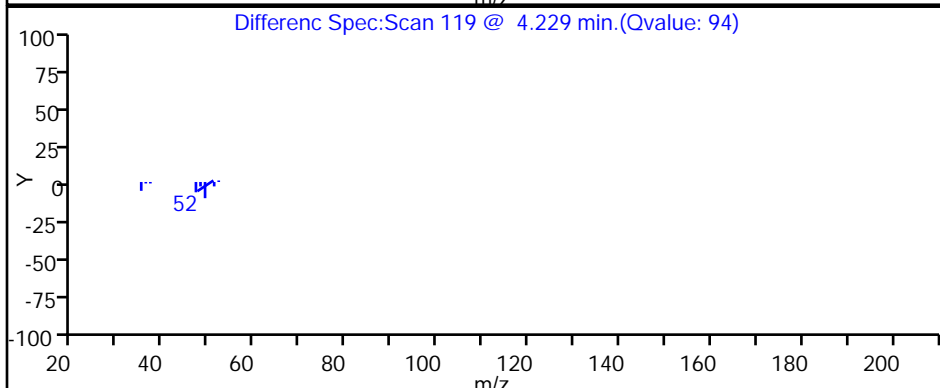
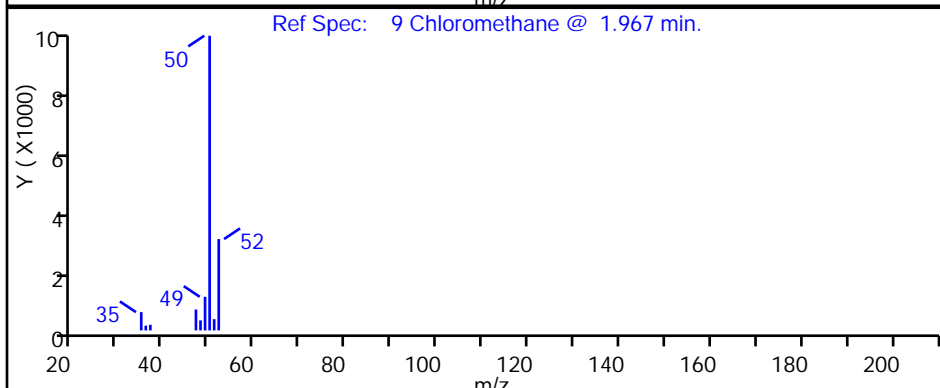
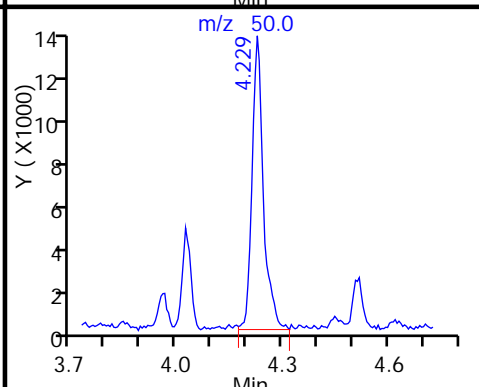
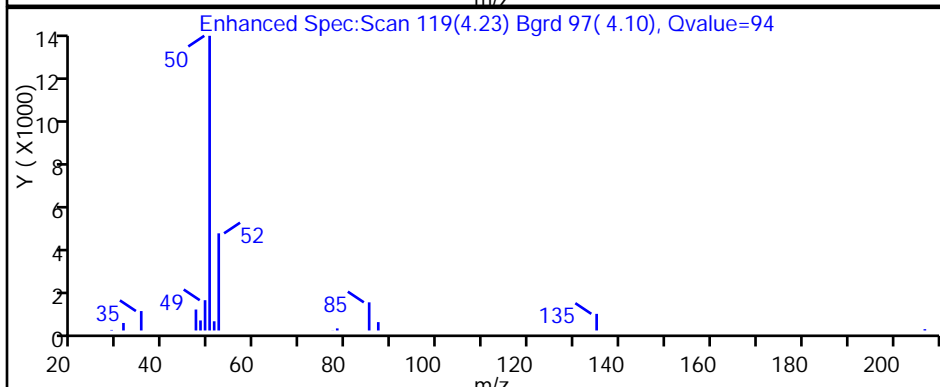
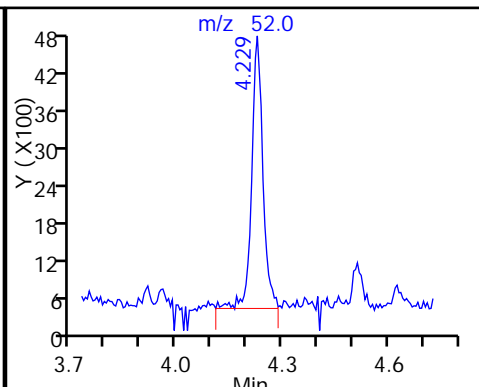
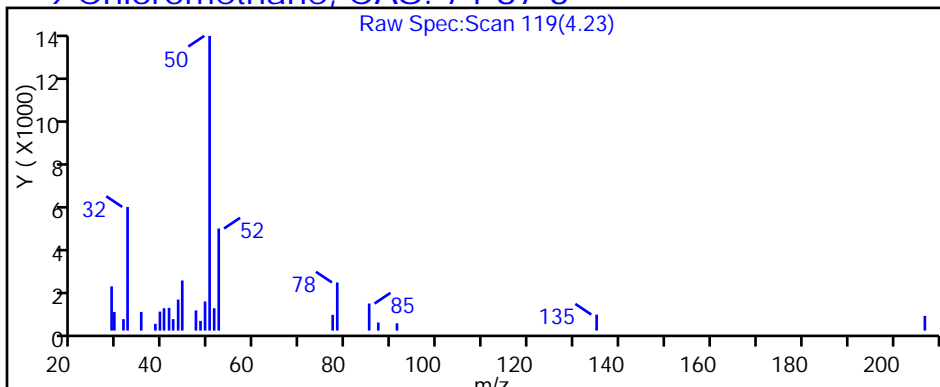
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

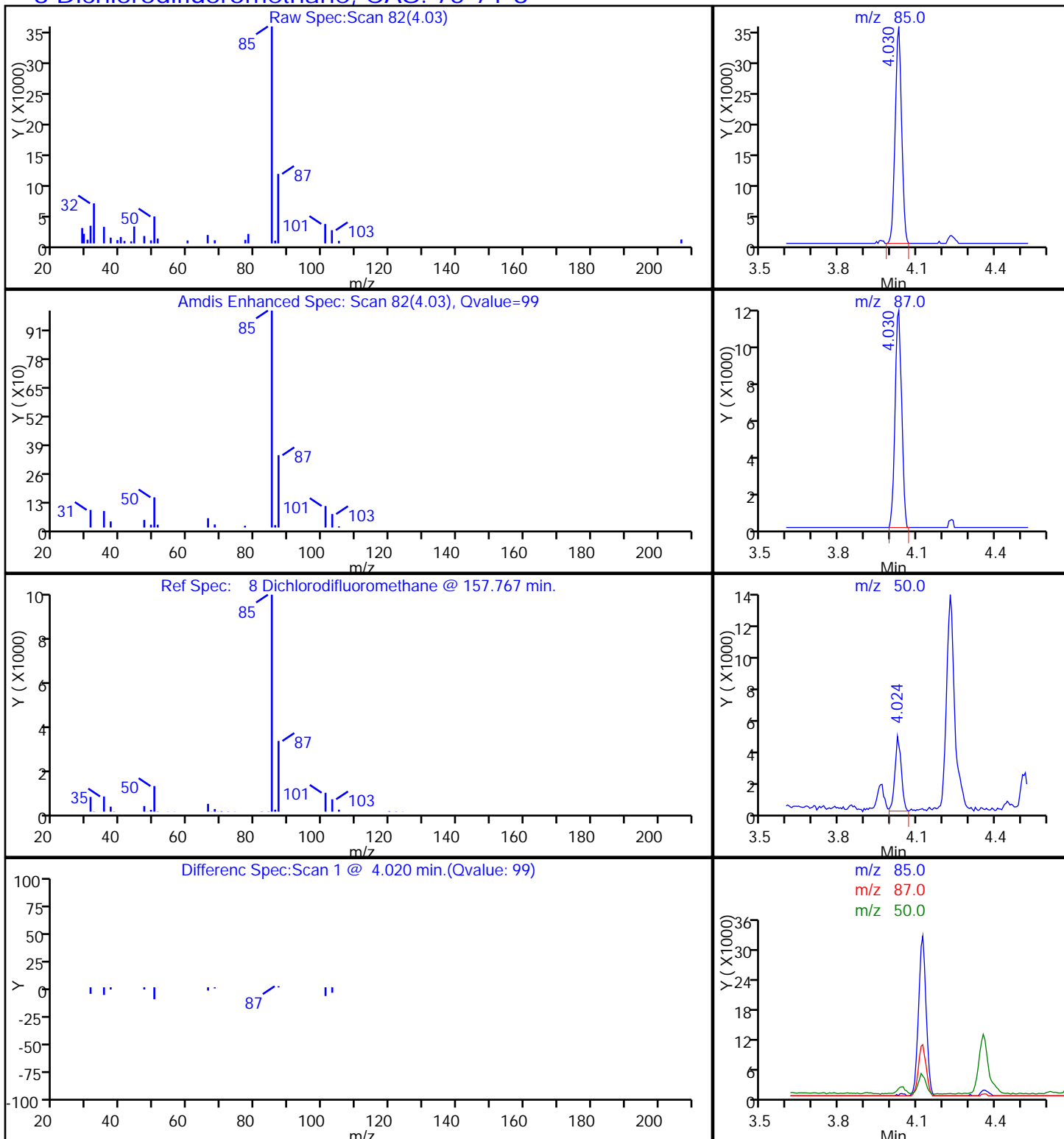
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

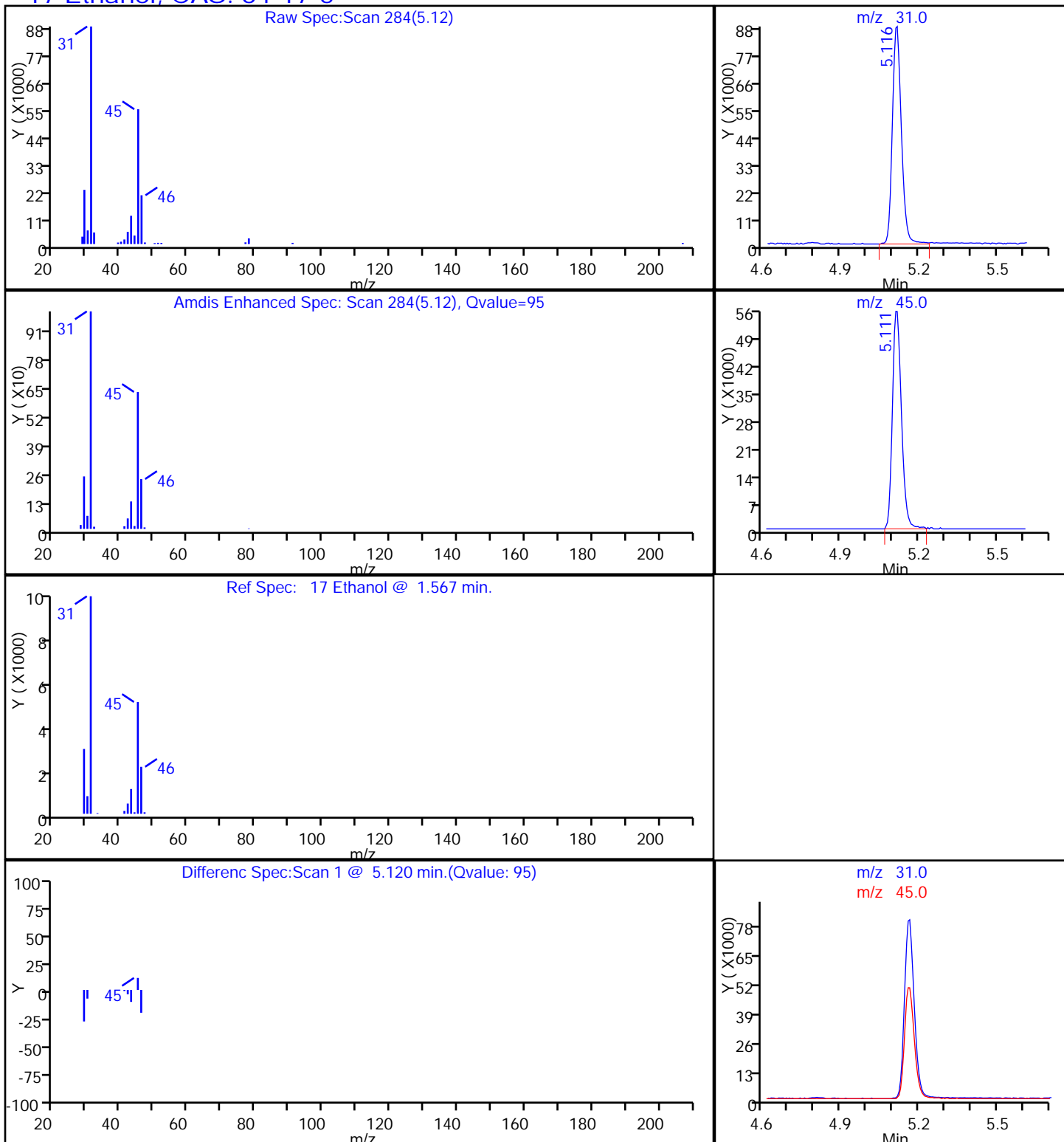
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

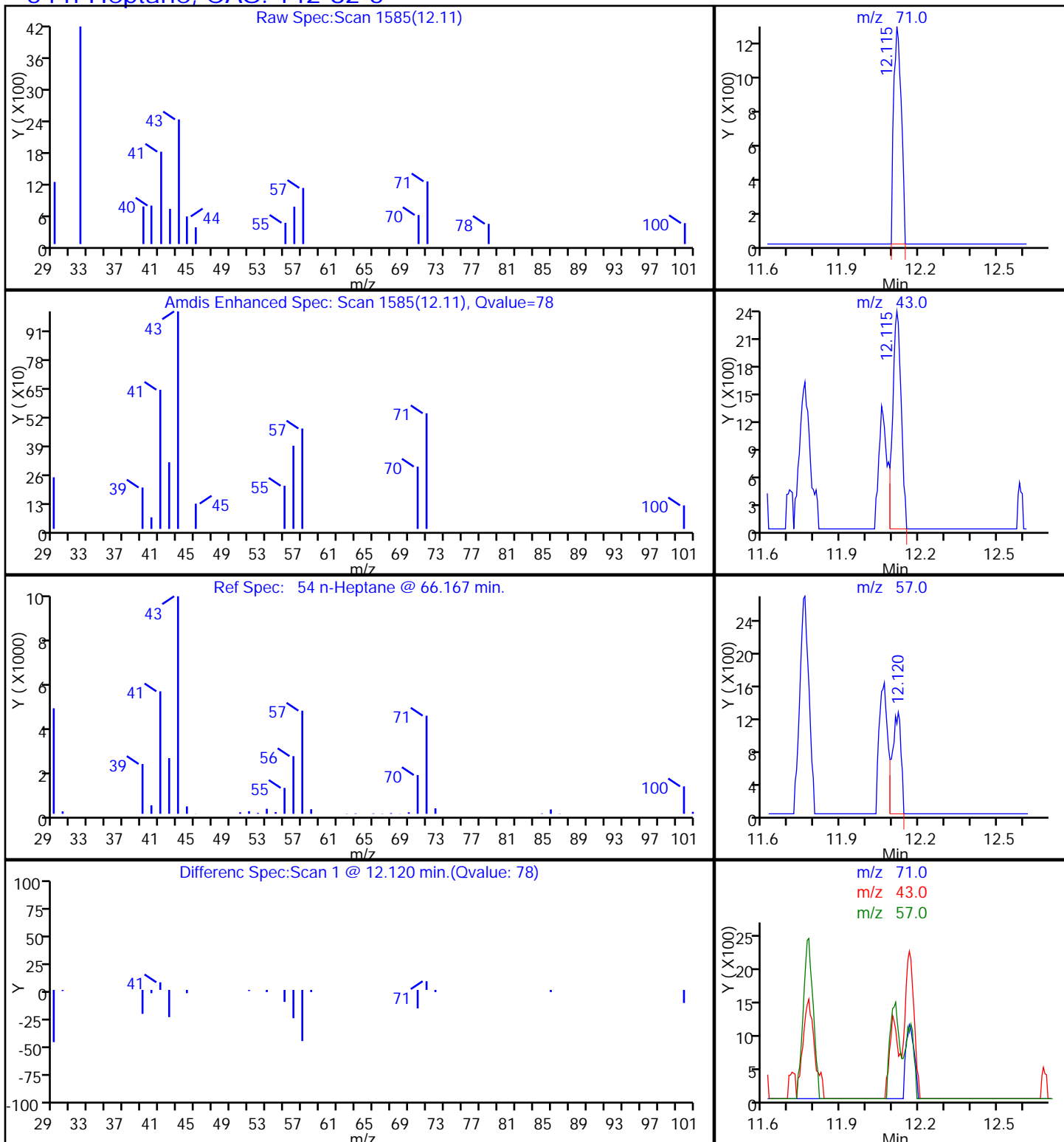
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

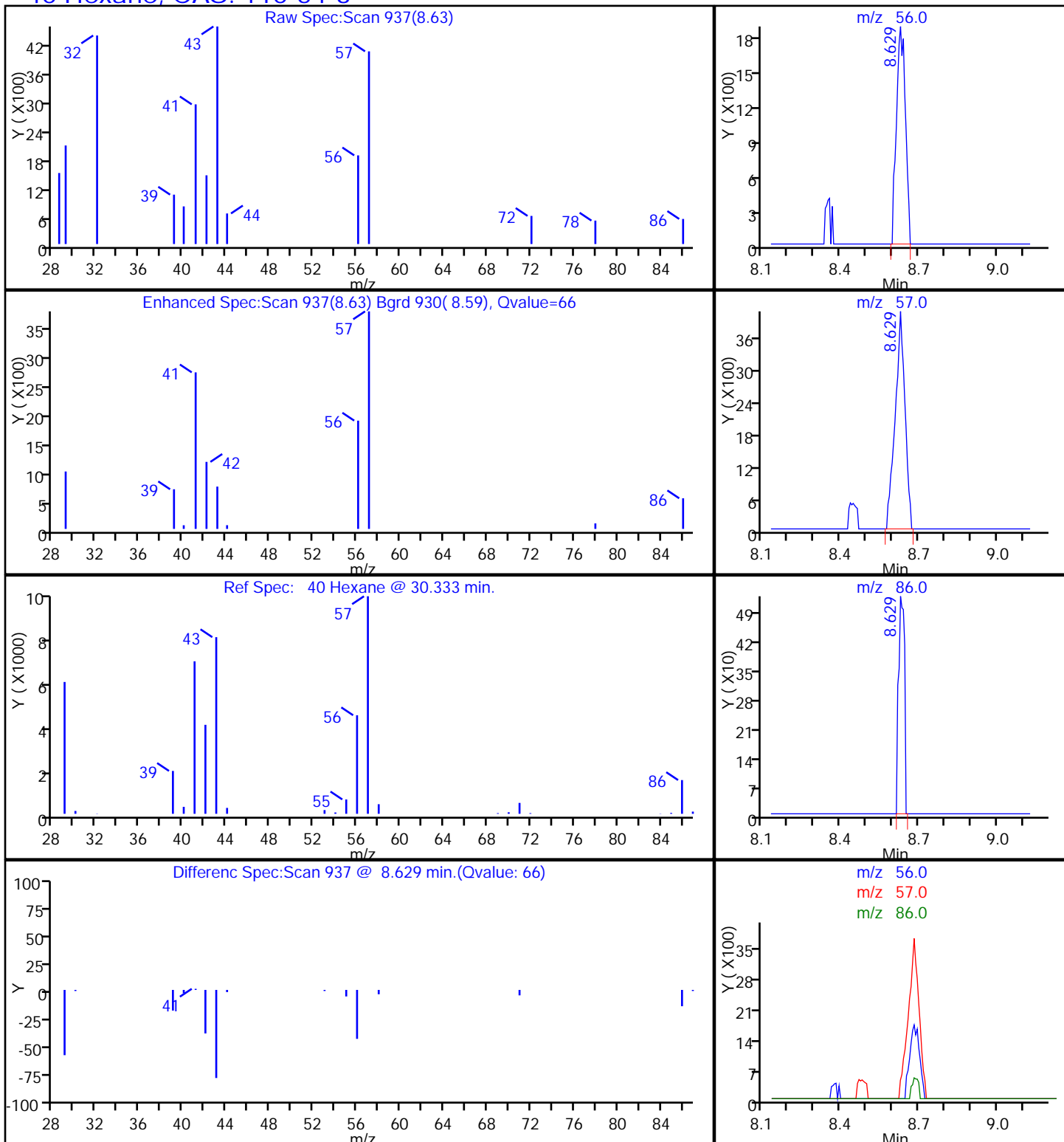
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

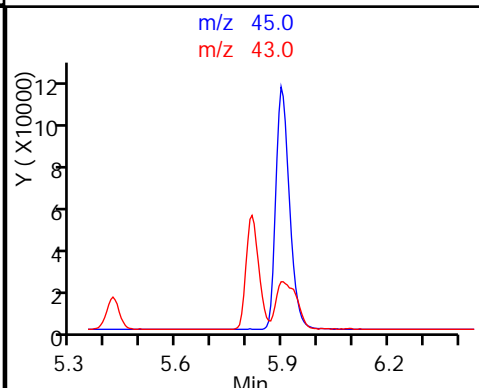
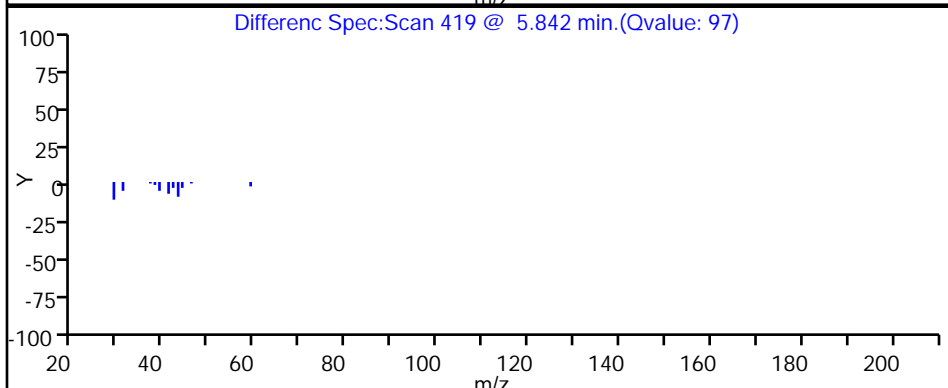
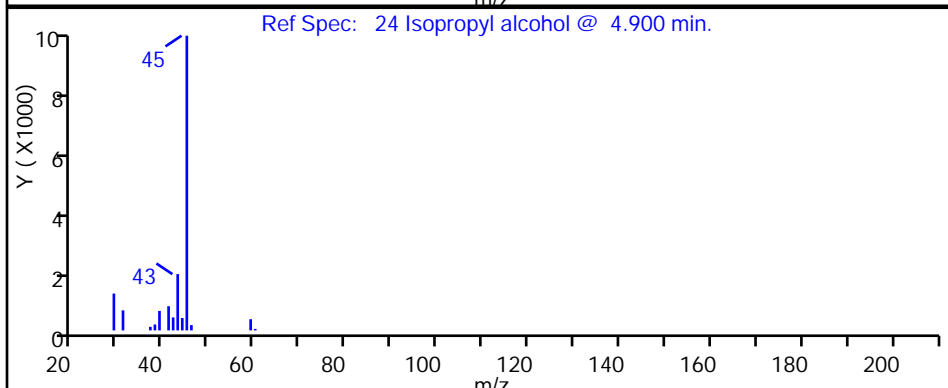
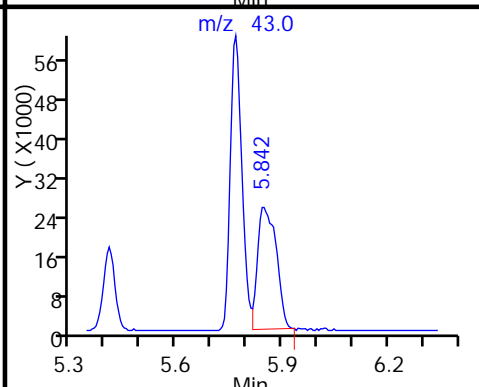
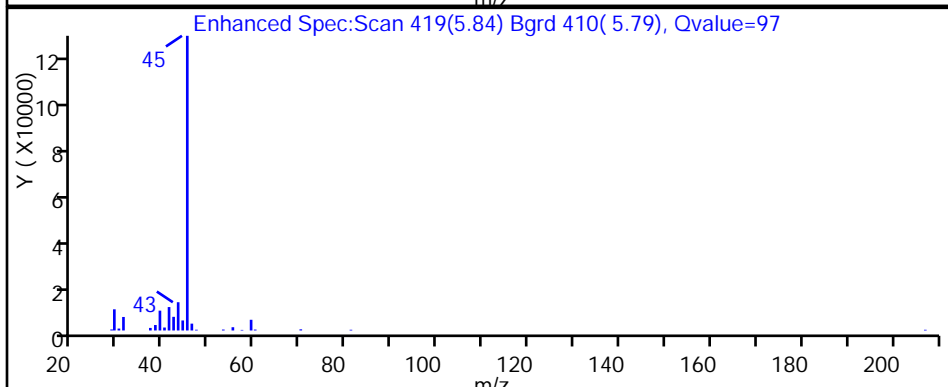
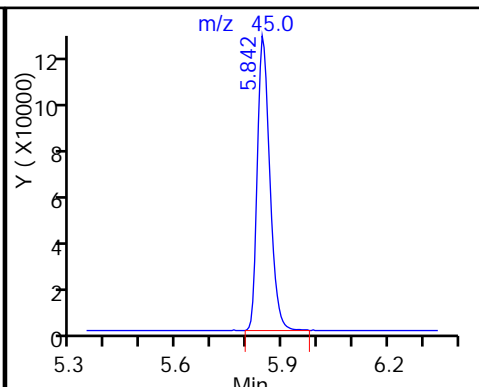
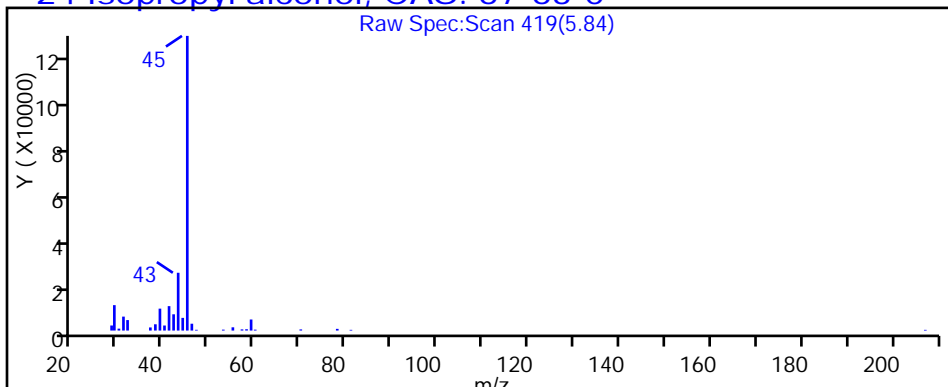
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

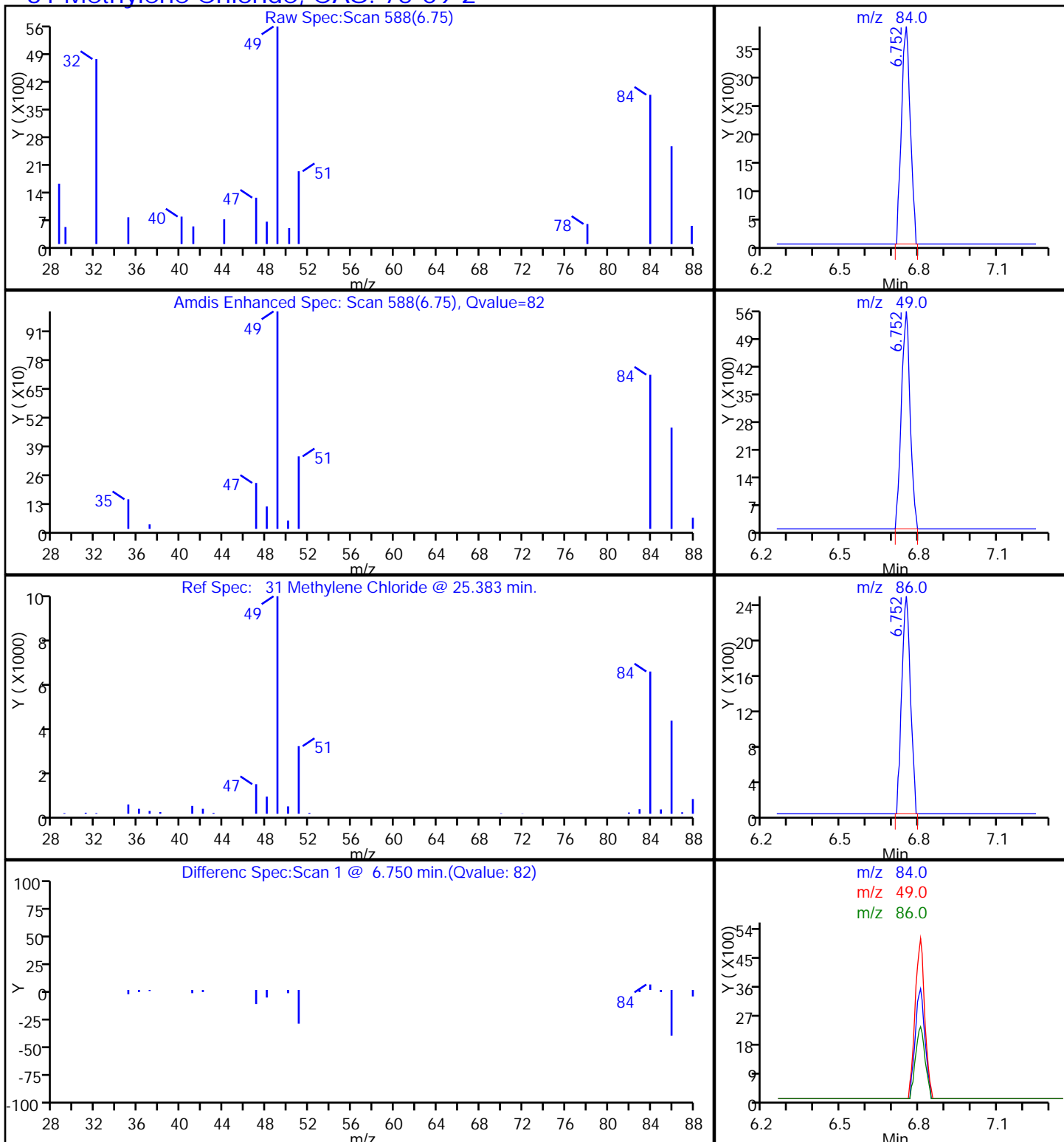
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

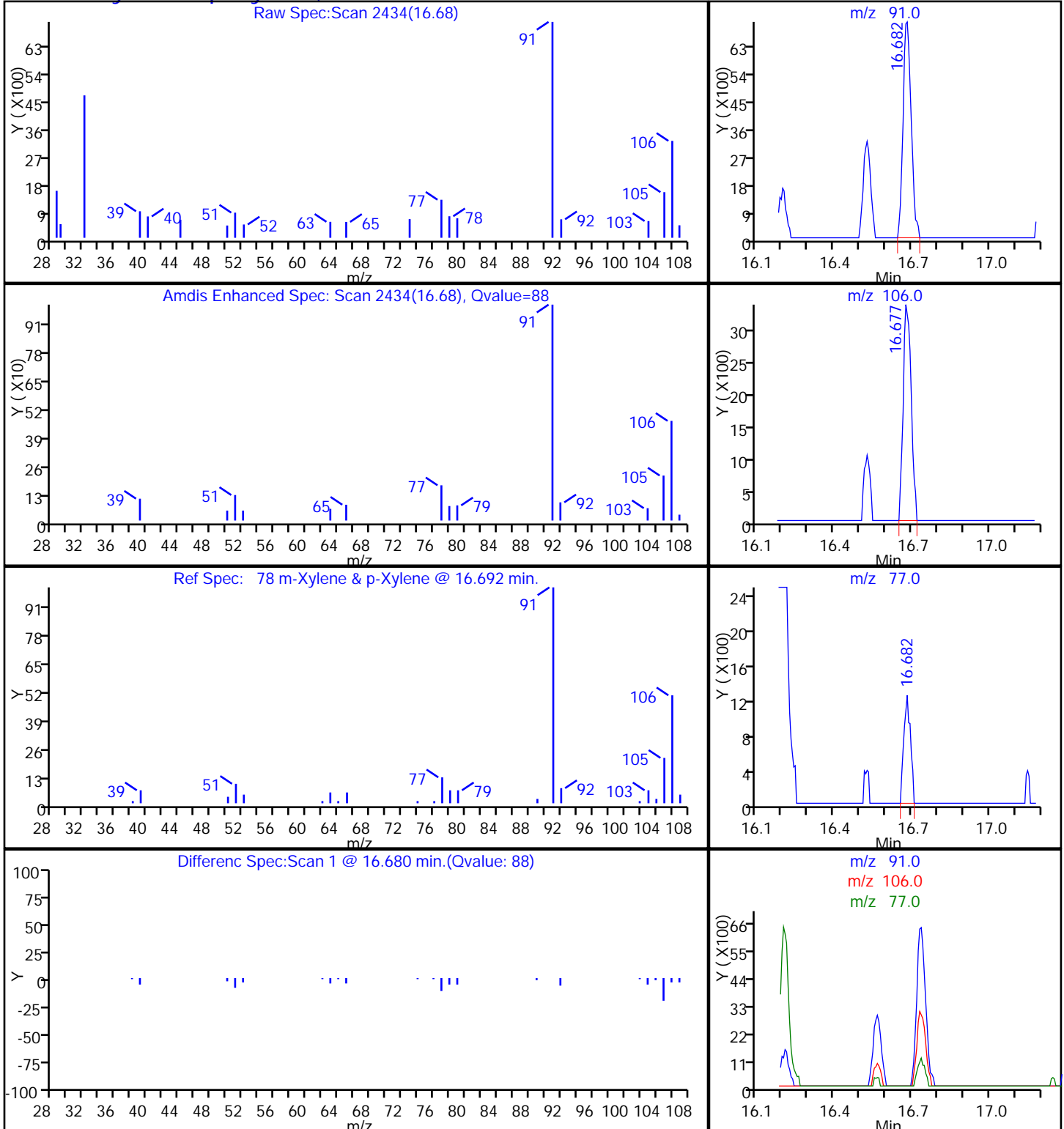
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

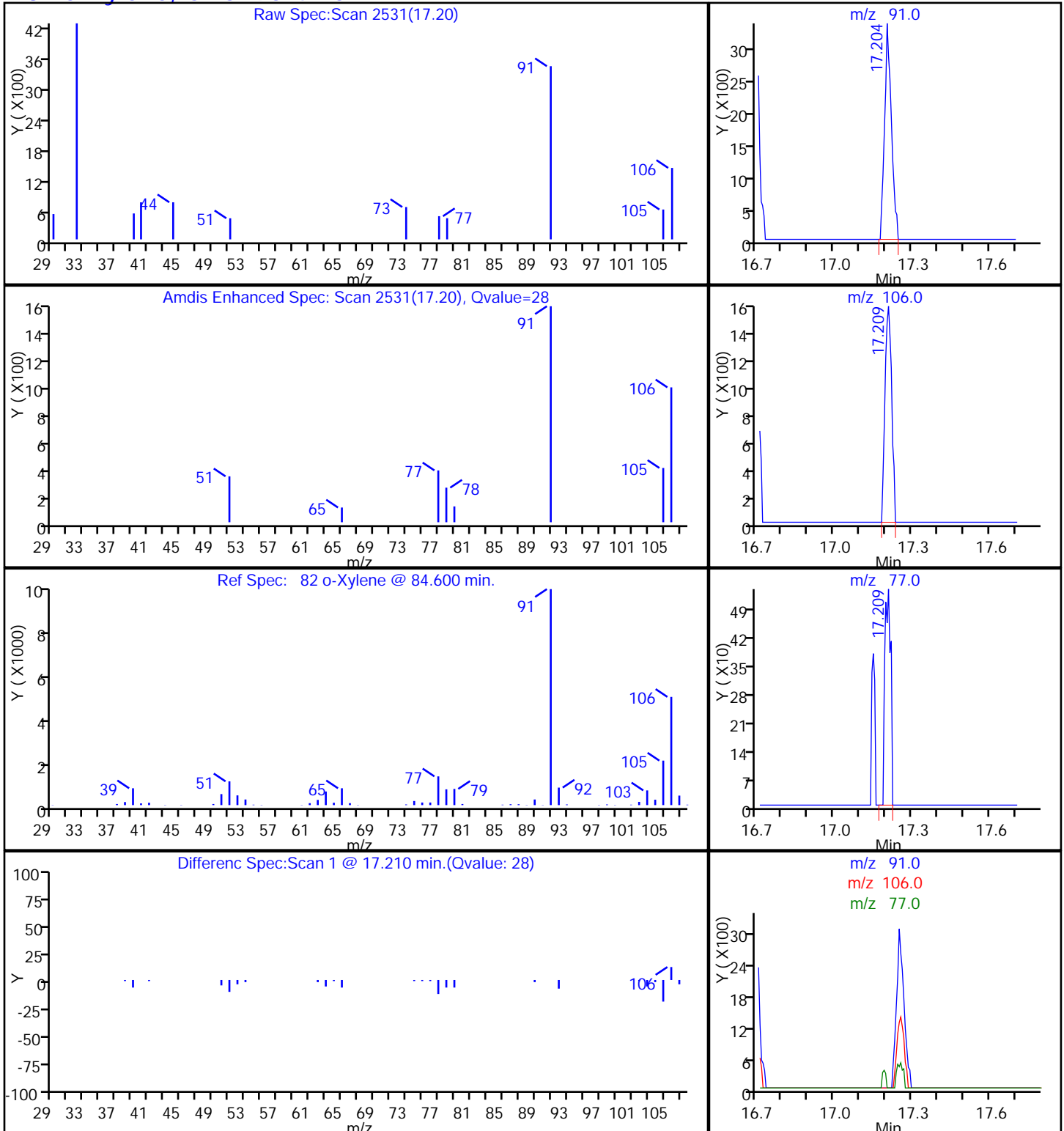
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

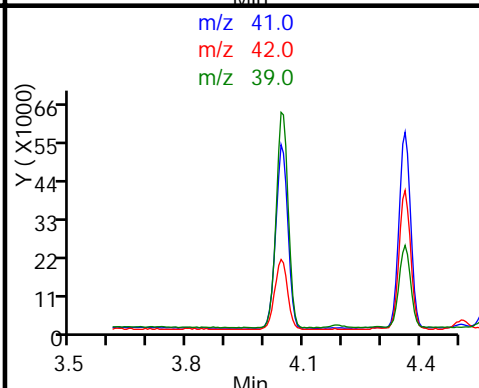
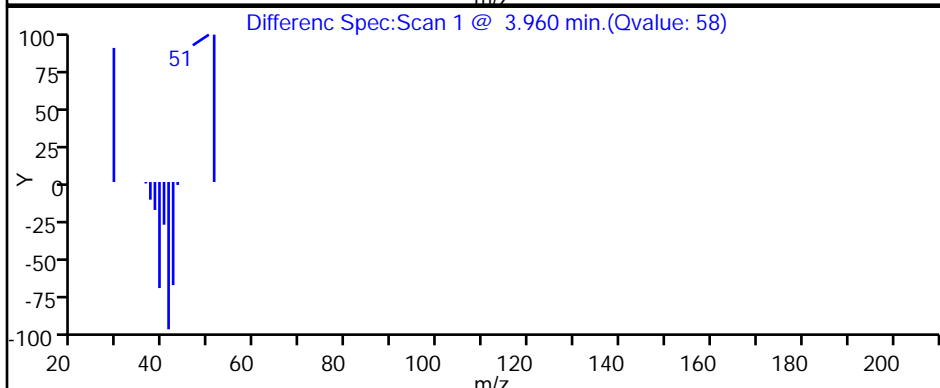
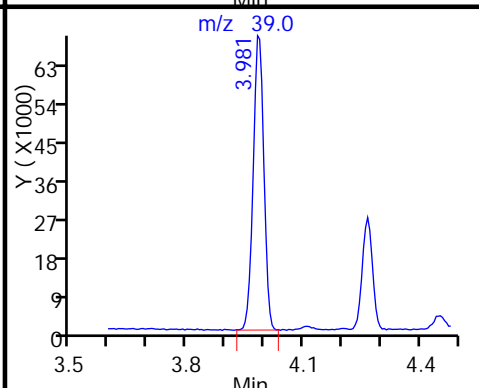
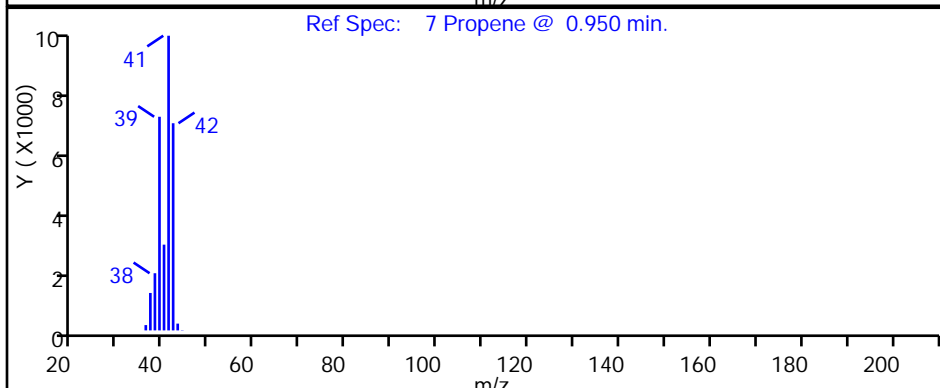
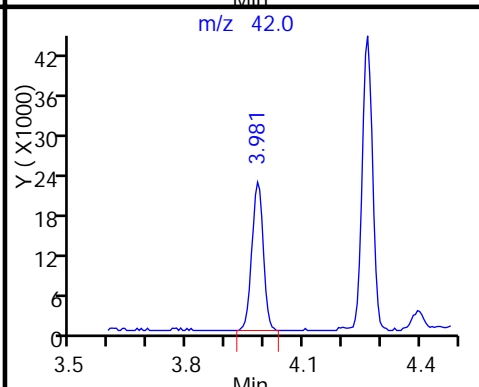
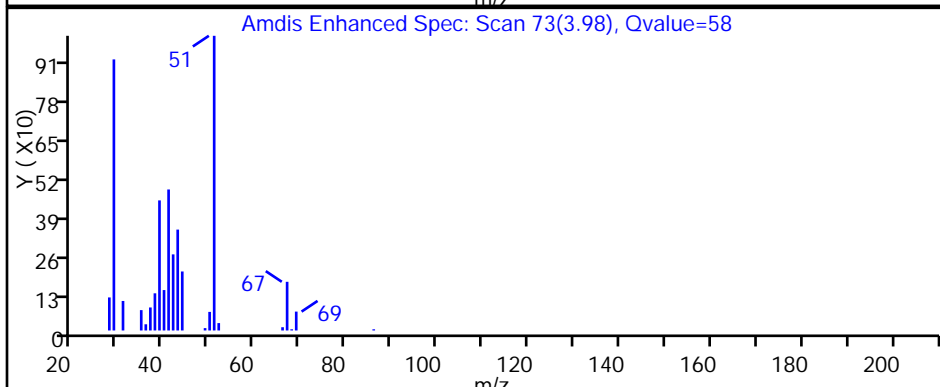
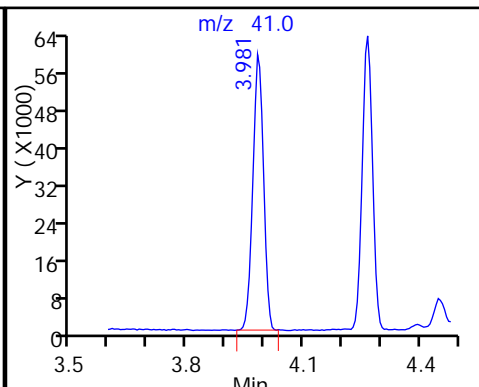
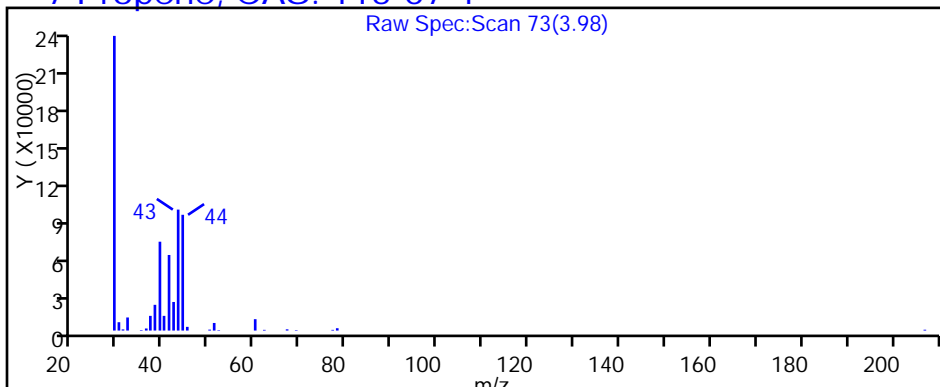
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

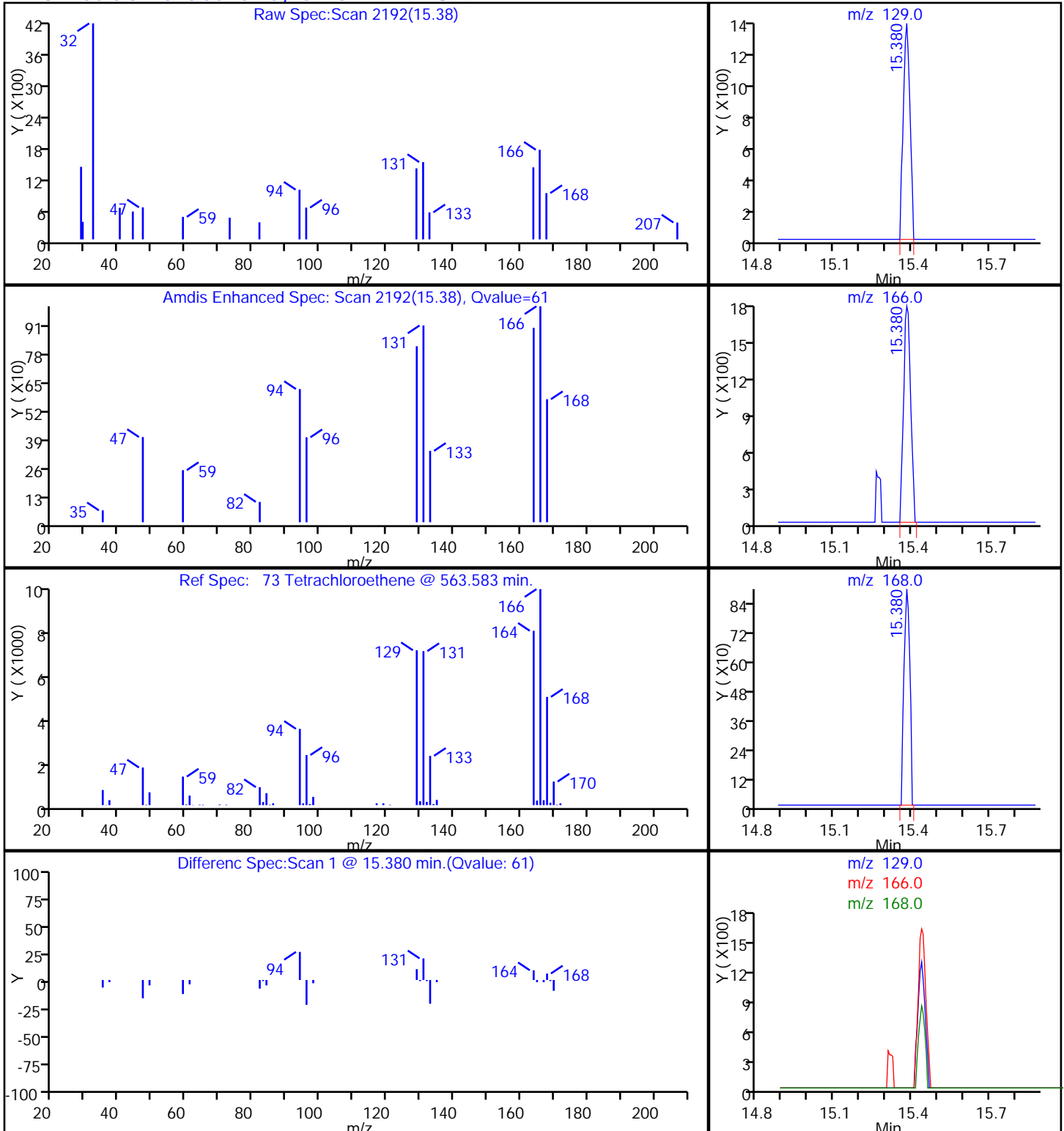
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

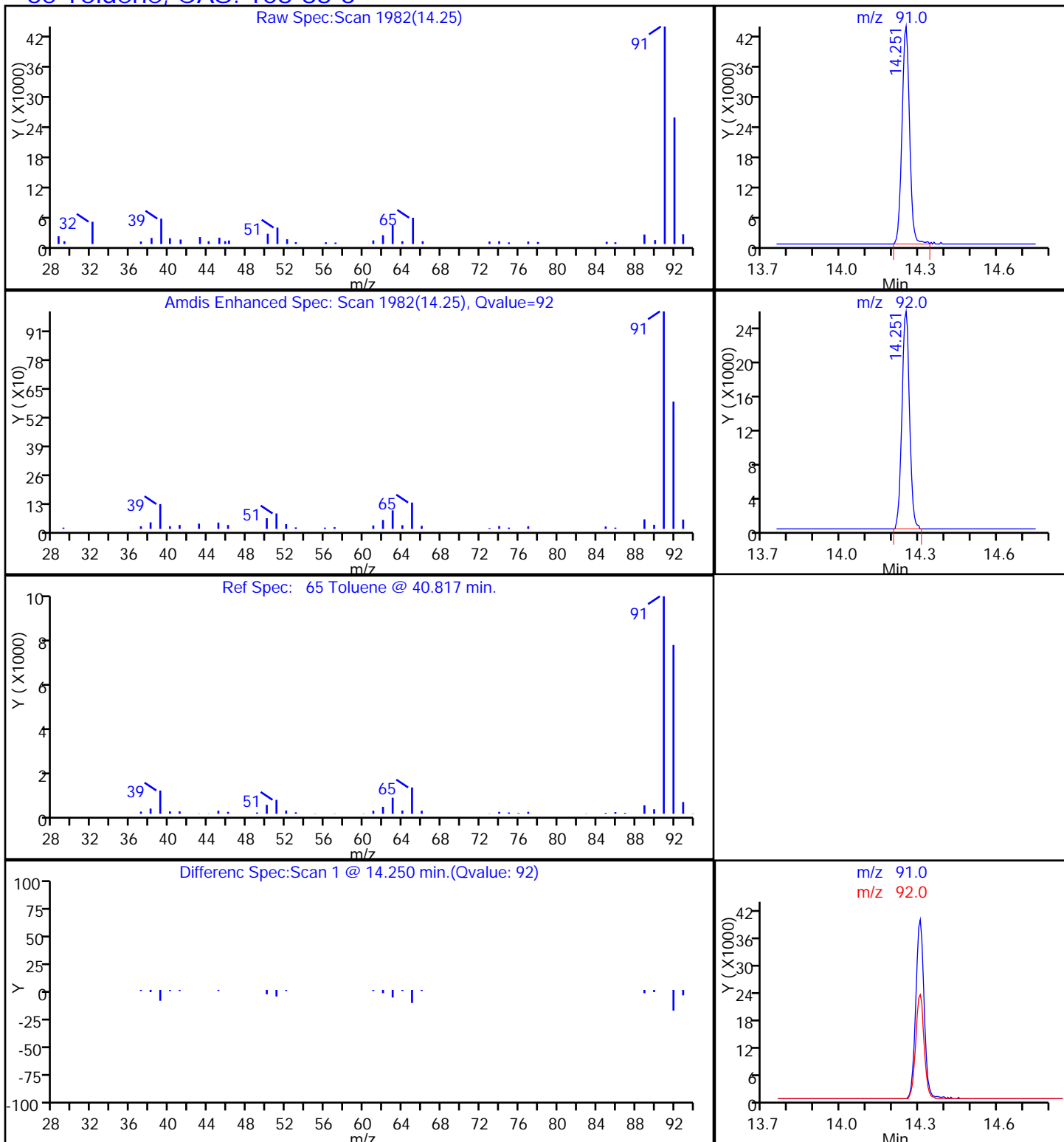
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P108.D

Injection Date: 19-Mar-2014 23:06:30

Instrument ID: MJ

Lims ID: 140-1063-A-23

Lab Sample ID: 140-1063-23

Client ID: IA1-E17

Operator ID: 403648

ALS Bottle#: 8 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

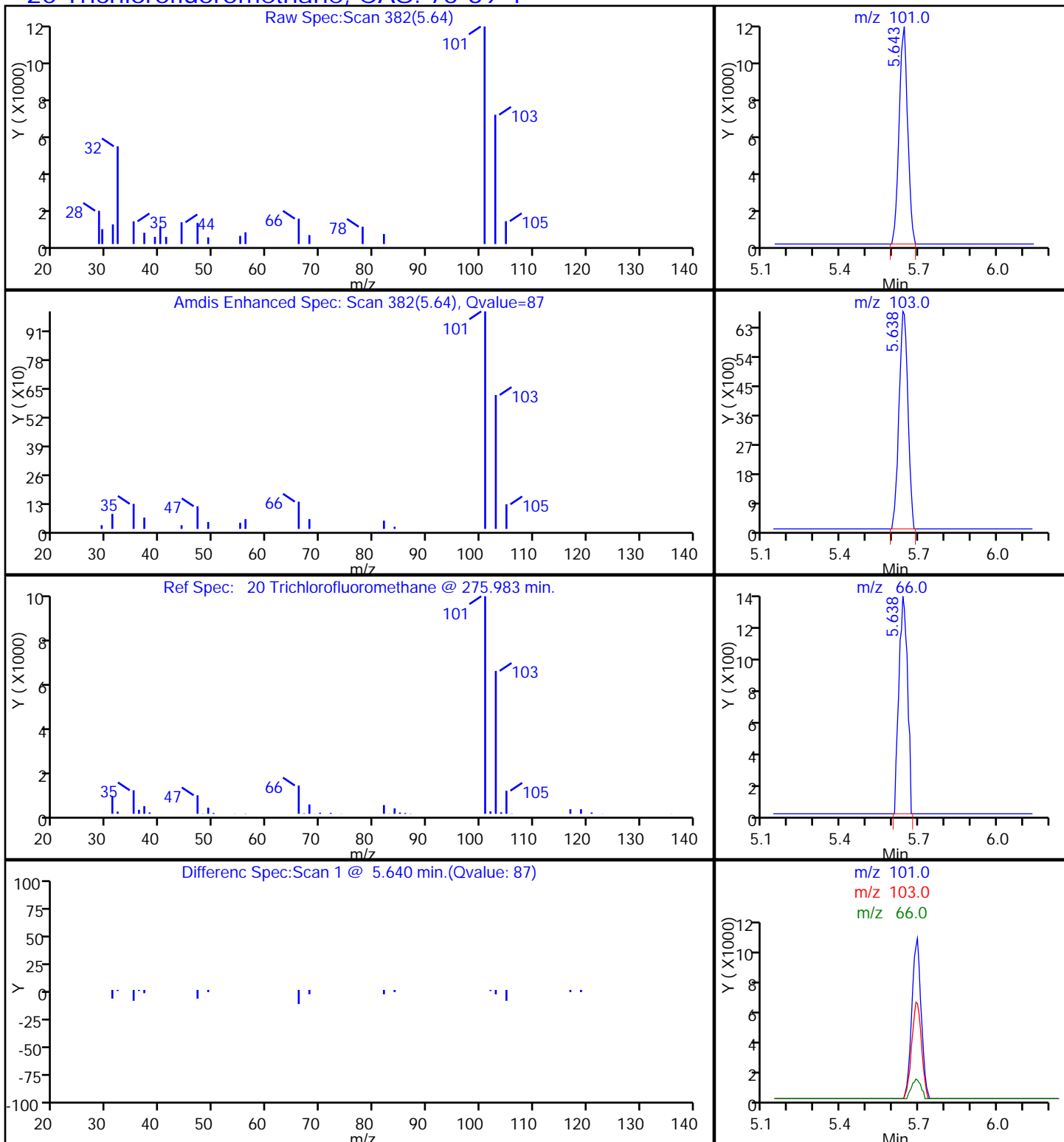
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24
 Matrix: Air Lab File ID: JC19P109.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.13	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.27	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.61		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	2.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24
 Matrix: Air Lab File ID: JC19P109.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.066	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.052	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.56		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.43		0.20	0.068
64-17-5	Ethanol	46.07	18		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.076	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.14	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.4		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.30	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.15	J	0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.062	J	0.20	0.061
115-07-1	Propene	42.08	2.4	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.042	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.63		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24
 Matrix: Air Lab File ID: JC19P109.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 00:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24
 Matrix: Air Lab File ID: JC19P109.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.28	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	0.80	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.8		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	6.2	J	12	3.3
71-43-2	Benzene	78.11	0.78		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24
 Matrix: Air Lab File ID: JC19P109.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 00:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.42	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.26	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.2		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	33		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.31	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.50	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	13		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.1	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.65	J	0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.27	J	0.87	0.26
115-07-1	Propene	42.08	4.1	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.29	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	2.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA1FD-E17 Lab Sample ID: 140-1063-24
 Matrix: Air Lab File ID: JC19P109.D
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 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 00:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D
 Lims ID: 140-1063-A-24 Lab Sample ID: 140-1063-24
 Client ID: IA1FD-E17
 Sample Type: Client
 Inject. Date: 20-Mar-2014 00:01:30 ALS Bottle#: 9 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-24
 Misc. Info.: J031914,TO15,,140-0000532-015
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:50:00 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:47:04

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	90	358412	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1739516	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1451460	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	92	984160	3.83	
7 Propene	41	3.981	3.973	0.008	46	104755	0.9532	
8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	96	61452	0.1731	
9 Chloromethane	52	4.234	4.231	0.003	97	9071	0.2249	
14 Butadiene	54	4.508	4.516	-0.008	26	4726	0.0512	
17 Ethanol	31	5.111	5.119	-0.008	94	201437	7.00	
19 2-Methylbutane	43	5.406	5.409	-0.003	91	37420	0.2458	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	89	24861	0.0797	
23 Acetone	58	5.767	5.770	-0.003	98	53453	1.05	
24 Isopropyl alcohol	45	5.842	5.850	-0.008	96	288023	2.14	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.582	-0.008	54	5898	0.0273	
31 Methylene Chloride	84	6.751	6.754	-0.003	83	11691	0.1219	
39 2-Butanone (MEK)	72	8.596	8.589	0.007	81	3682	0.1085	
40 Hexane	56	8.629	8.637	-0.008	76	5520	0.0573	
43 Chloroform	83	9.387	9.396	-0.009	3	4369	0.0209	
48 Benzene	78	11.017	11.026	-0.009	93	29138	0.0976	
50 Carbon tetrachloride	117	11.039	11.047	-0.008	85	6510	0.0264	
54 n-Heptane	71	12.115	12.123	-0.008	80	3216	0.0305	
65 Toluene	91	14.250	14.253	-0.003	92	67642	0.2512	
73 Tetrachloroethene	129	15.380	15.383	-0.003	59	2114	0.0169	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	88	14370	0.0599	
82 o-Xylene	91	17.209	17.212	-0.003	32	6051	0.0249	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Worklist Smp#: 15

Client ID: IA1FD-E17

Purge Vol: 500.000 mL

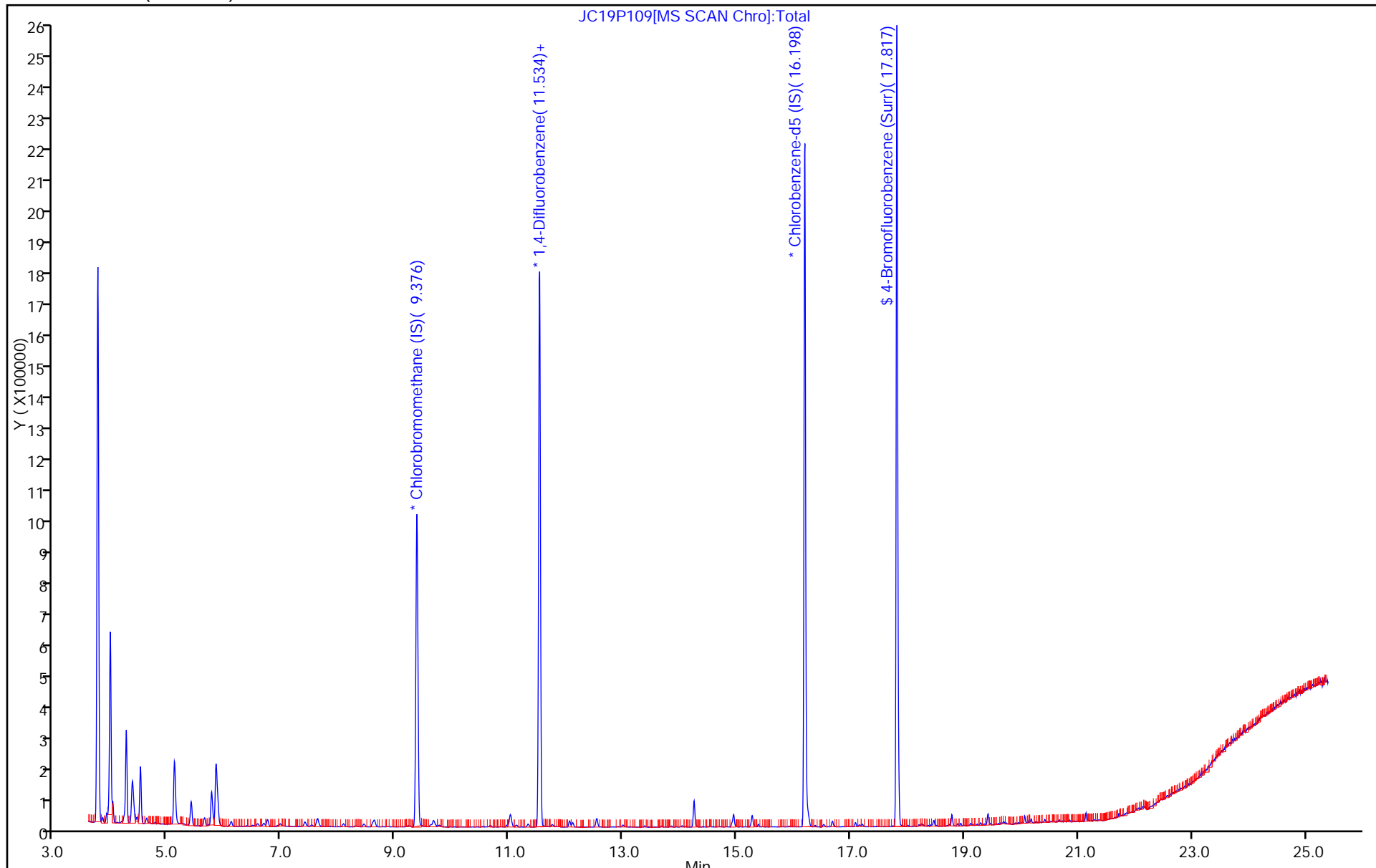
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

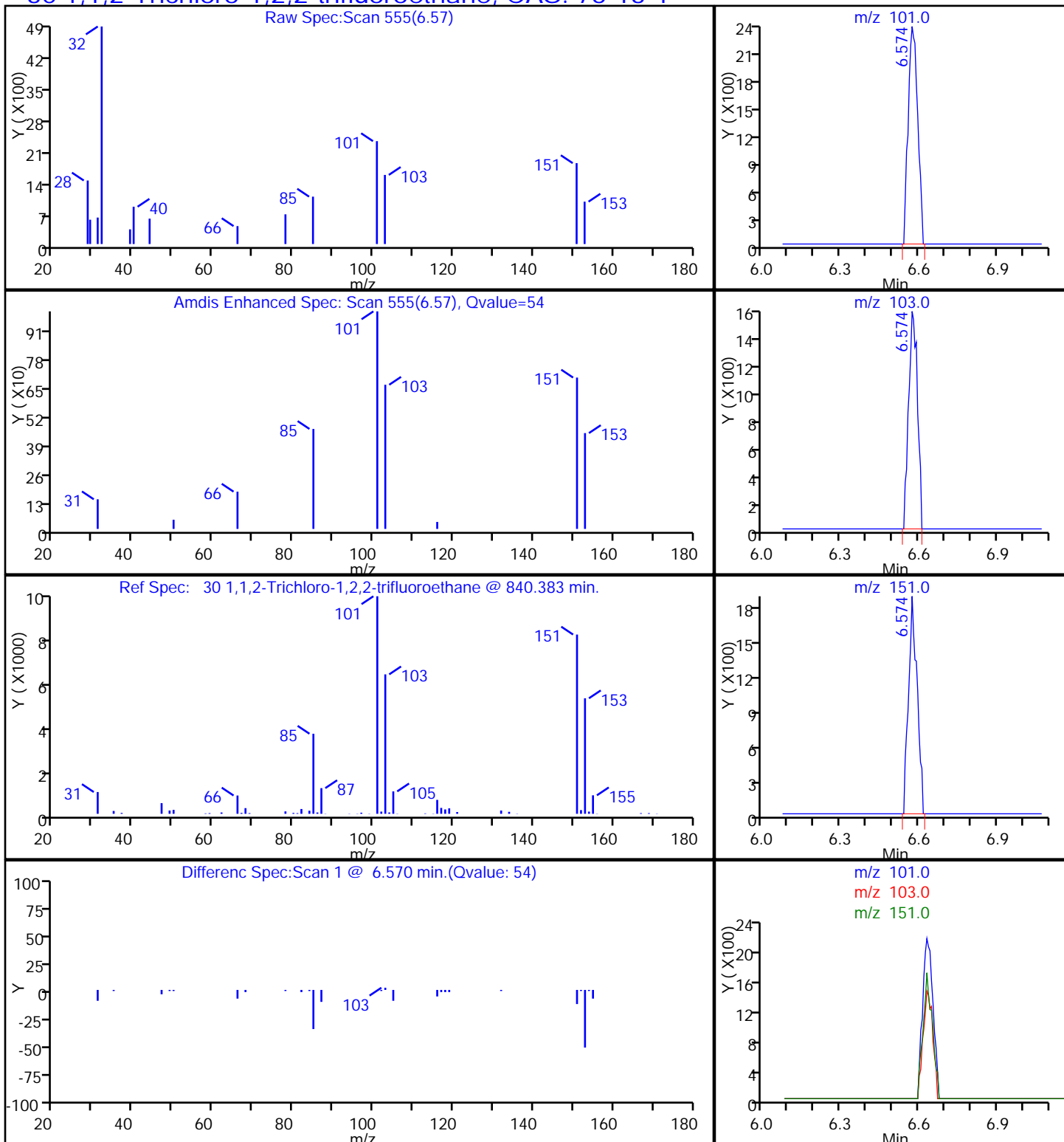
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

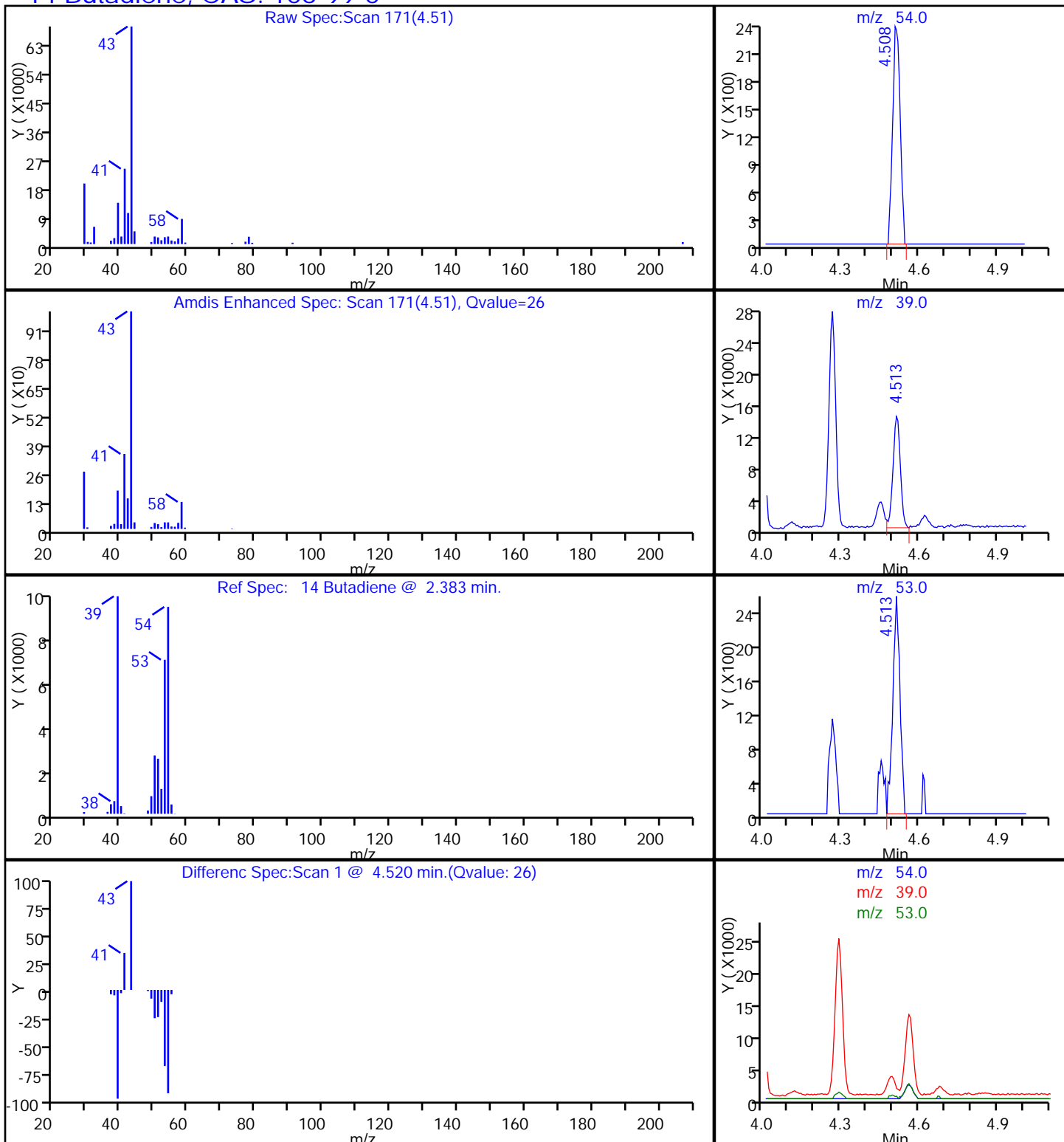
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

14 Butadiene, CAS: 106-99-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

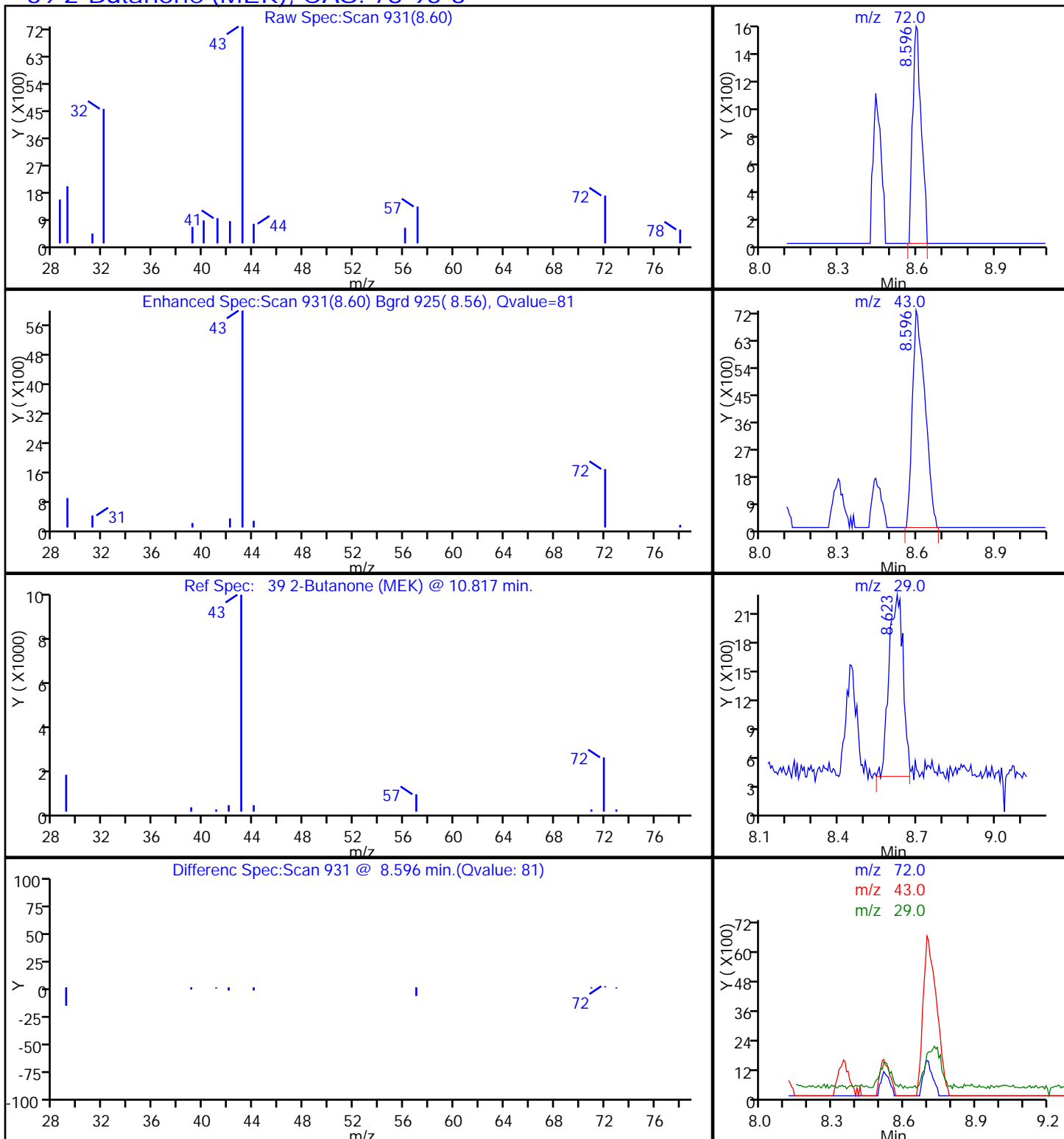
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

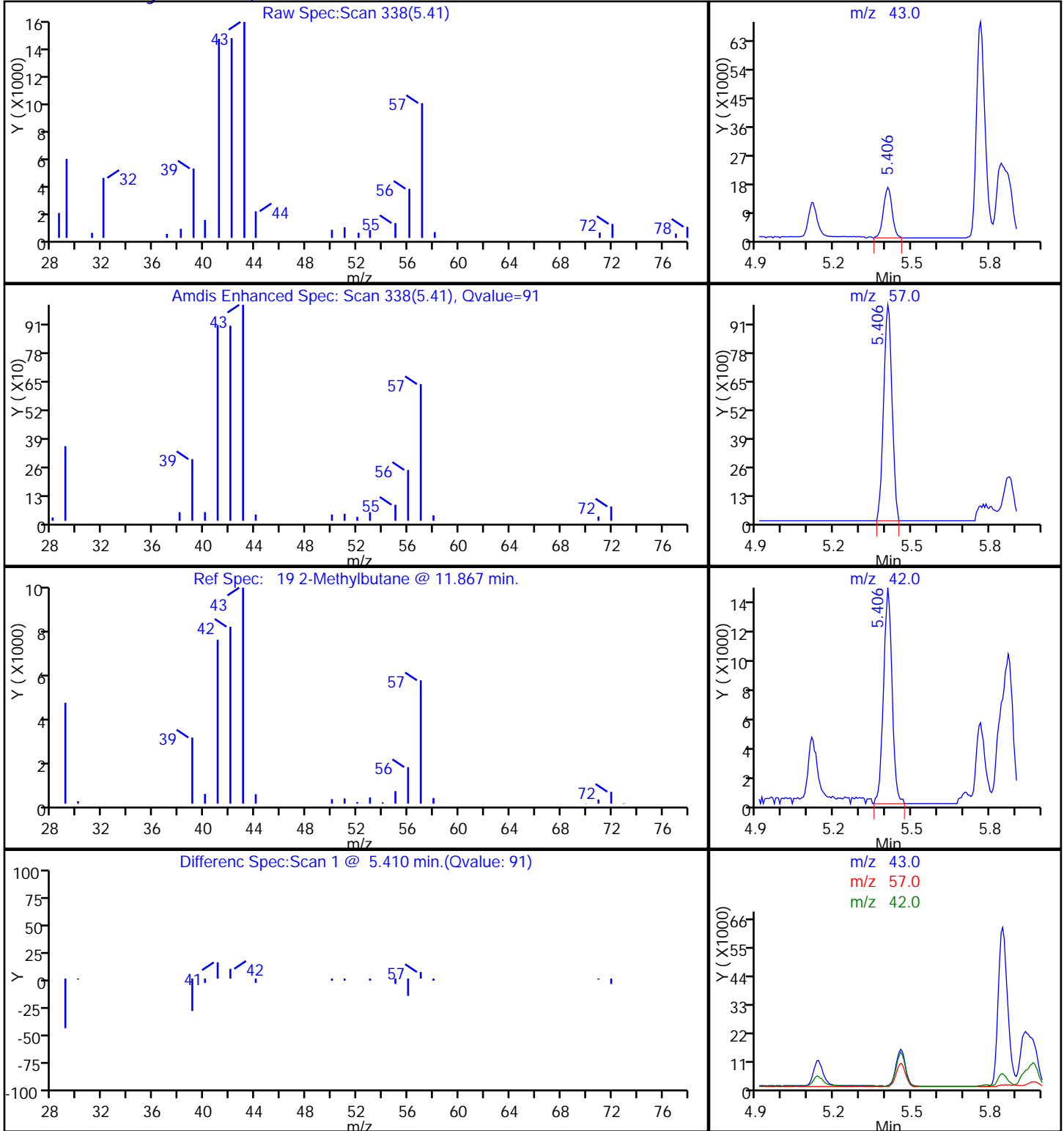
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

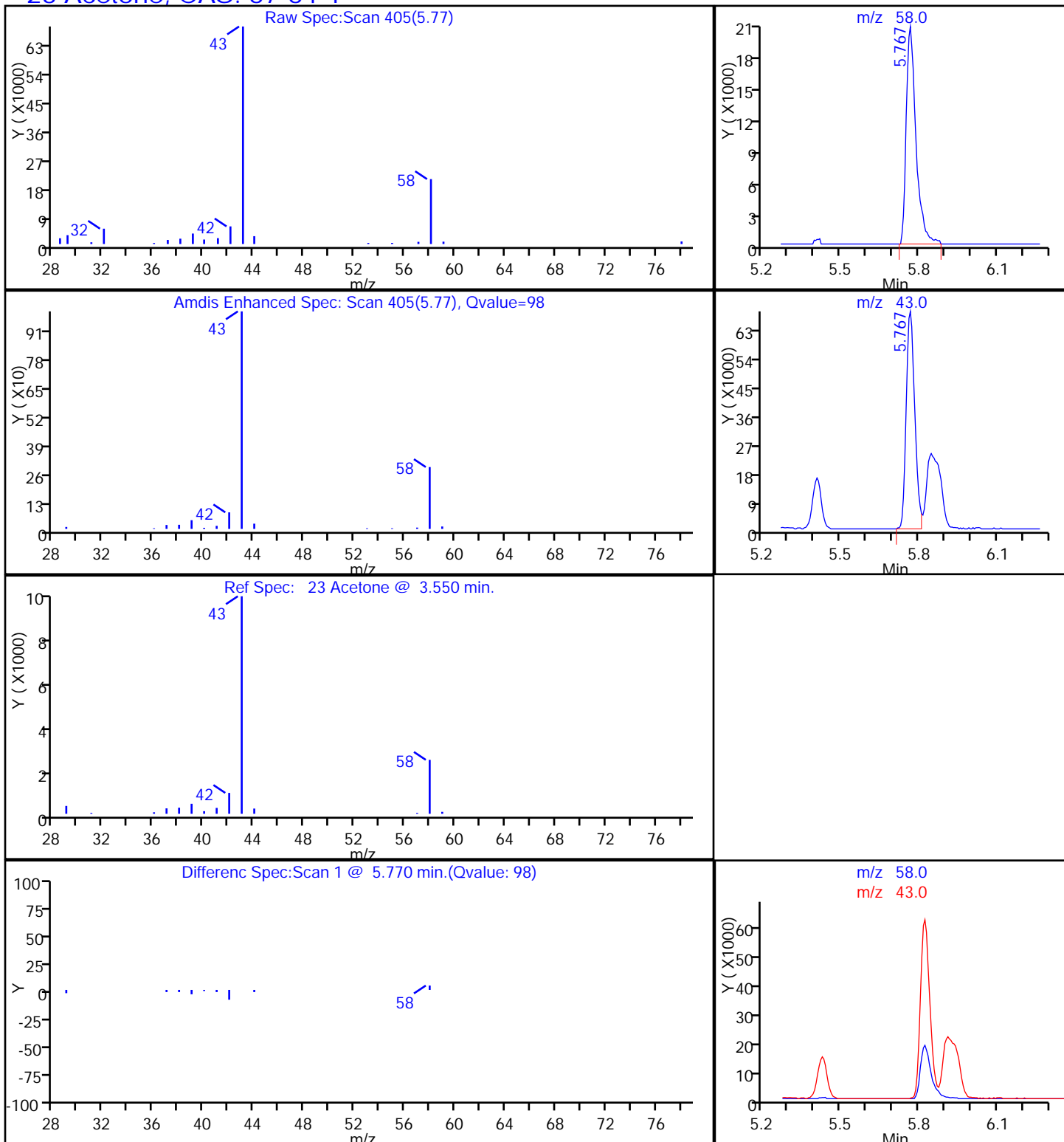
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

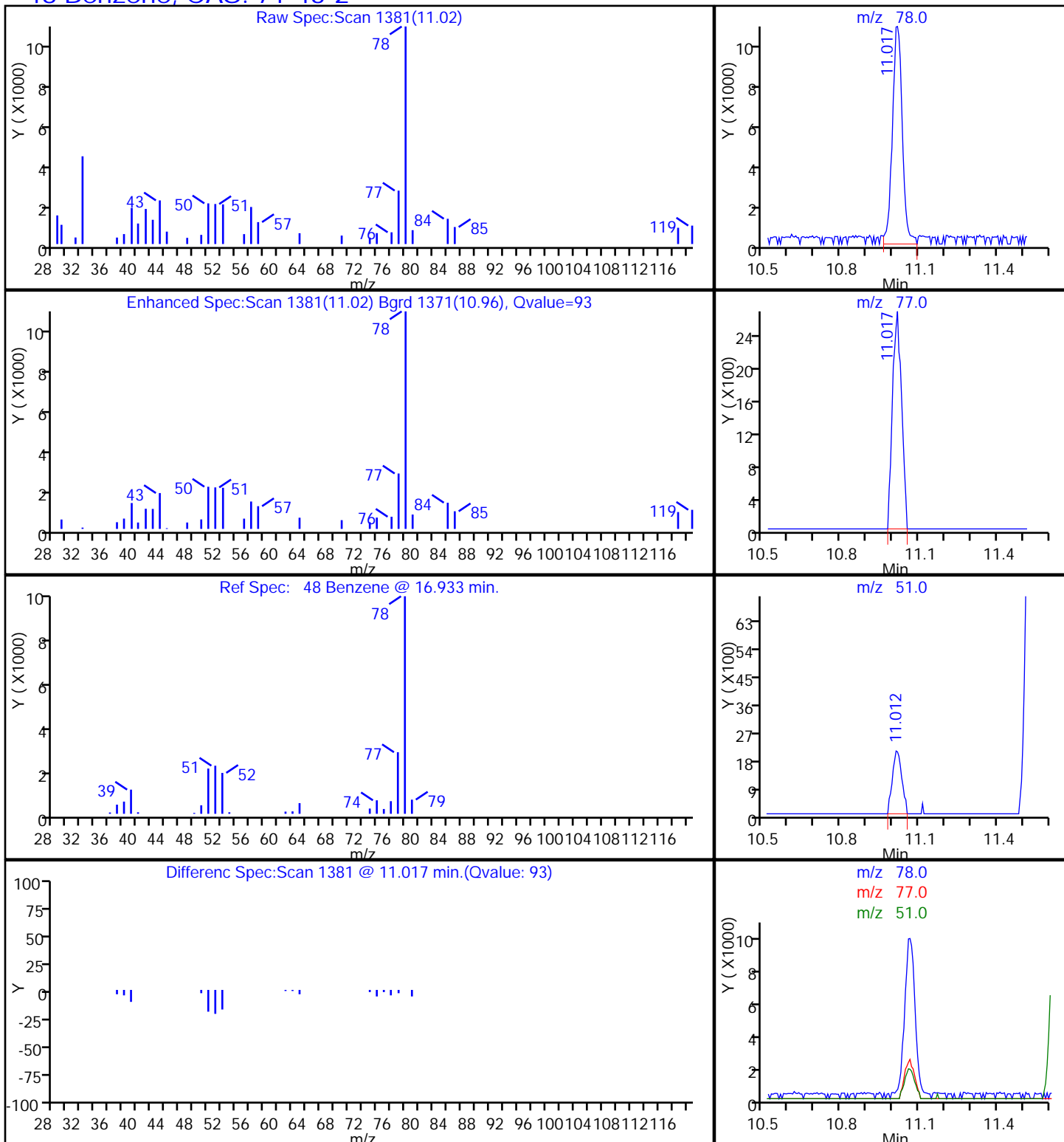
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

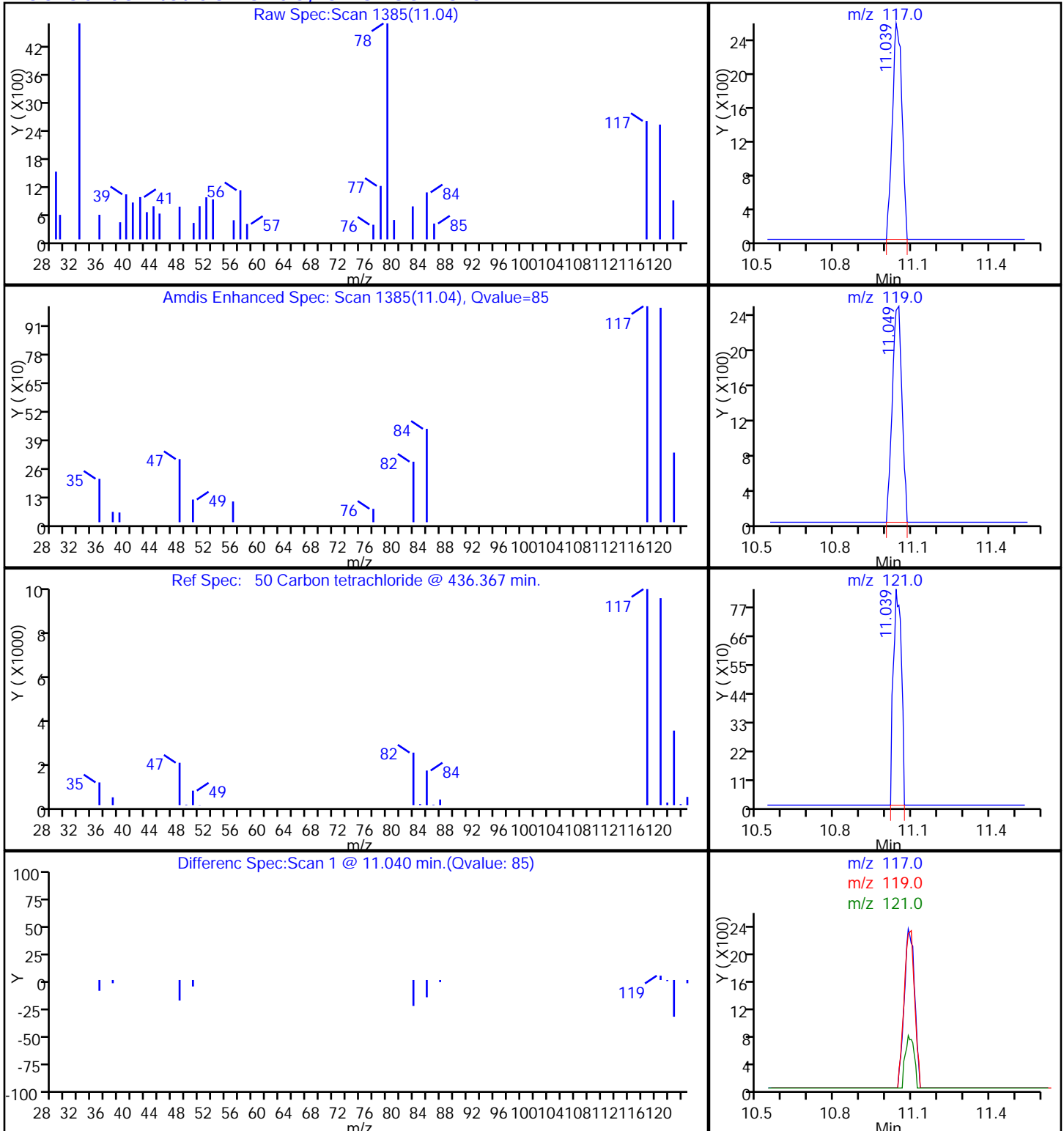
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

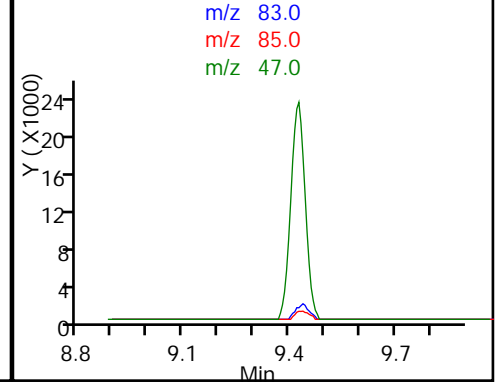
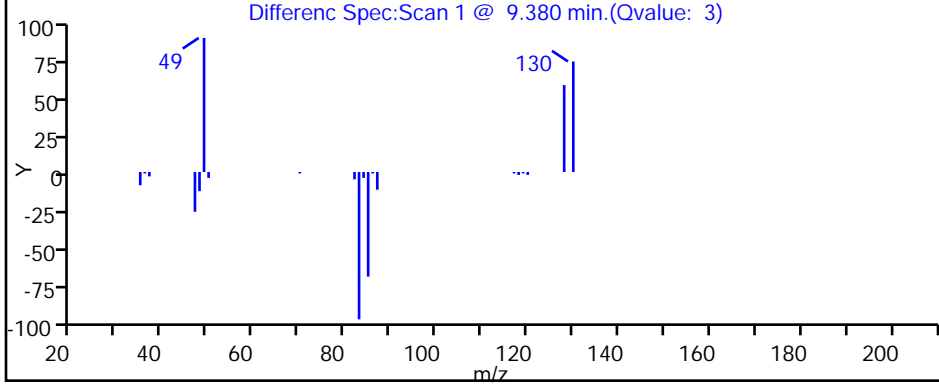
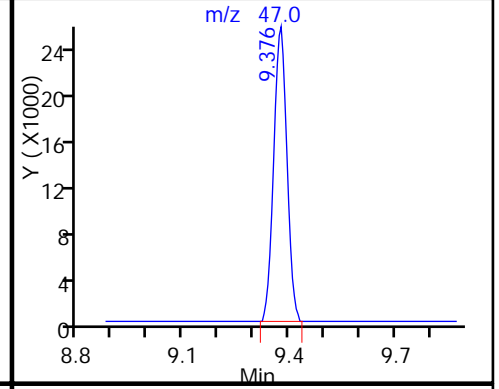
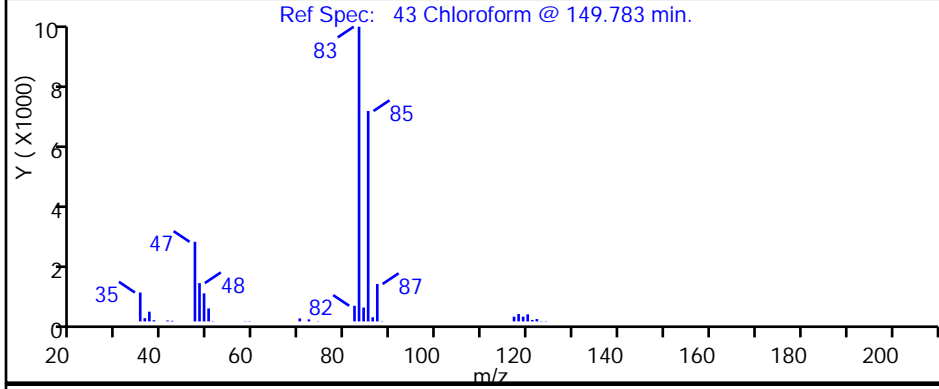
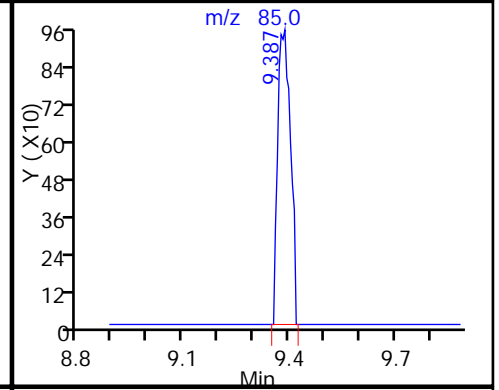
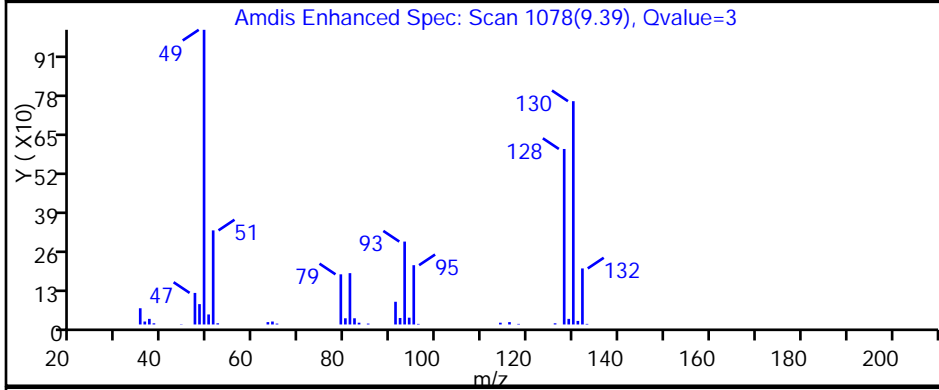
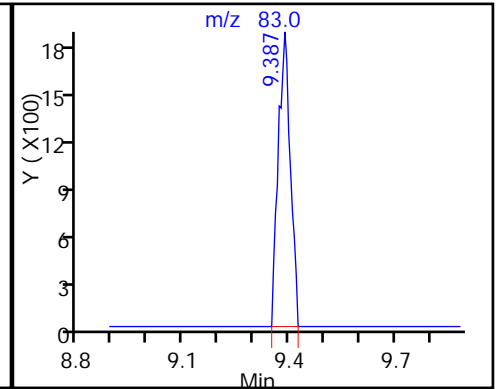
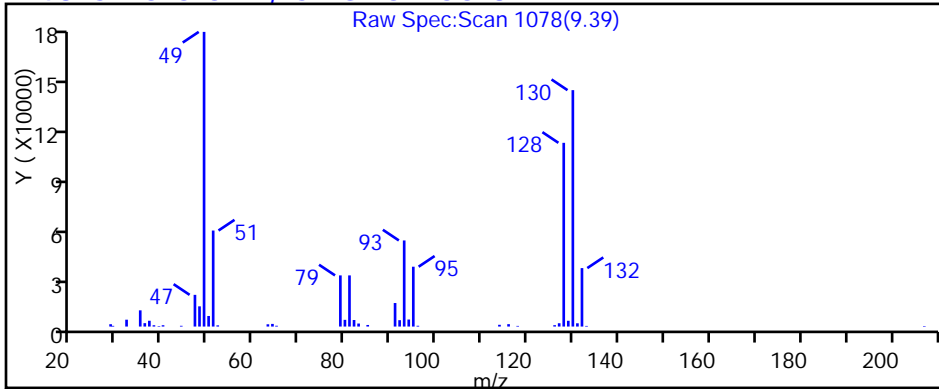
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

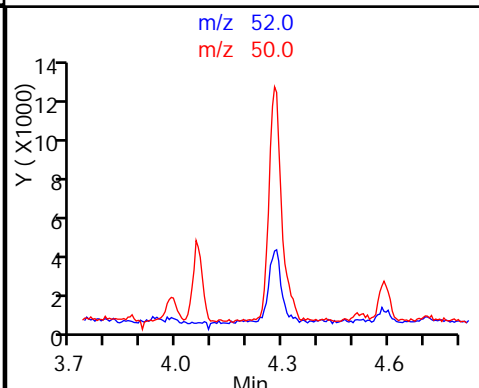
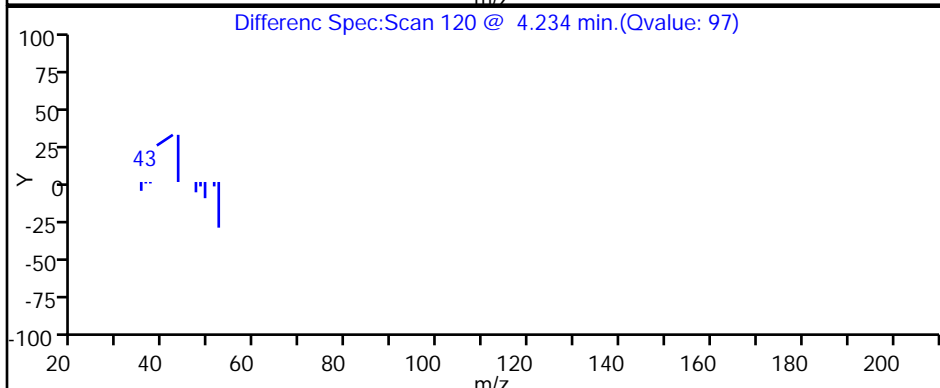
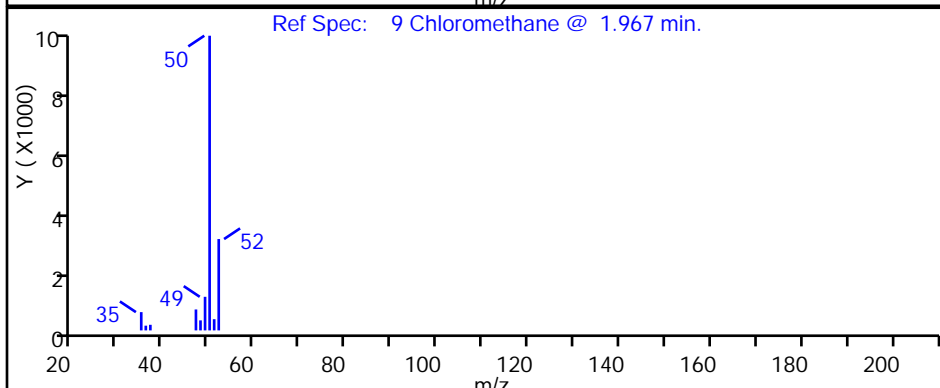
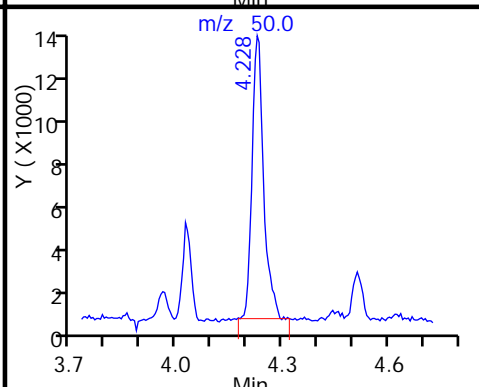
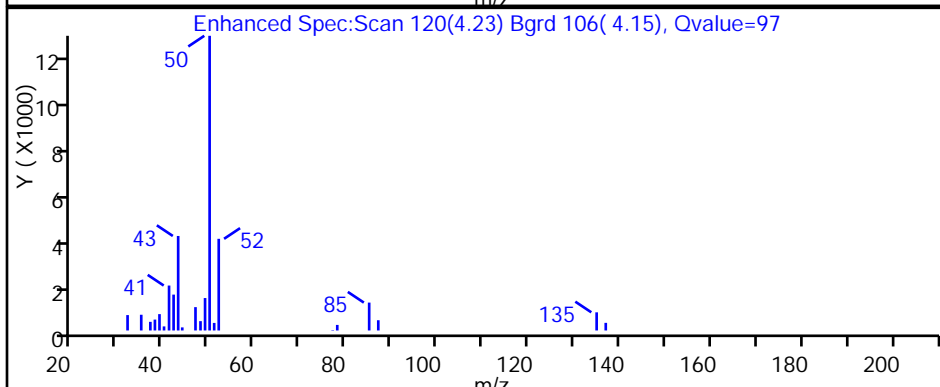
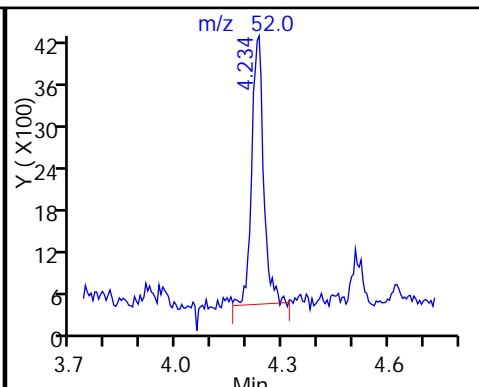
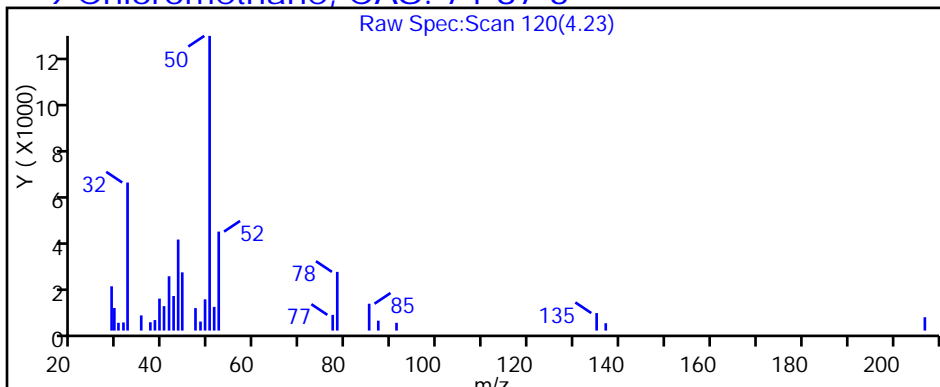
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

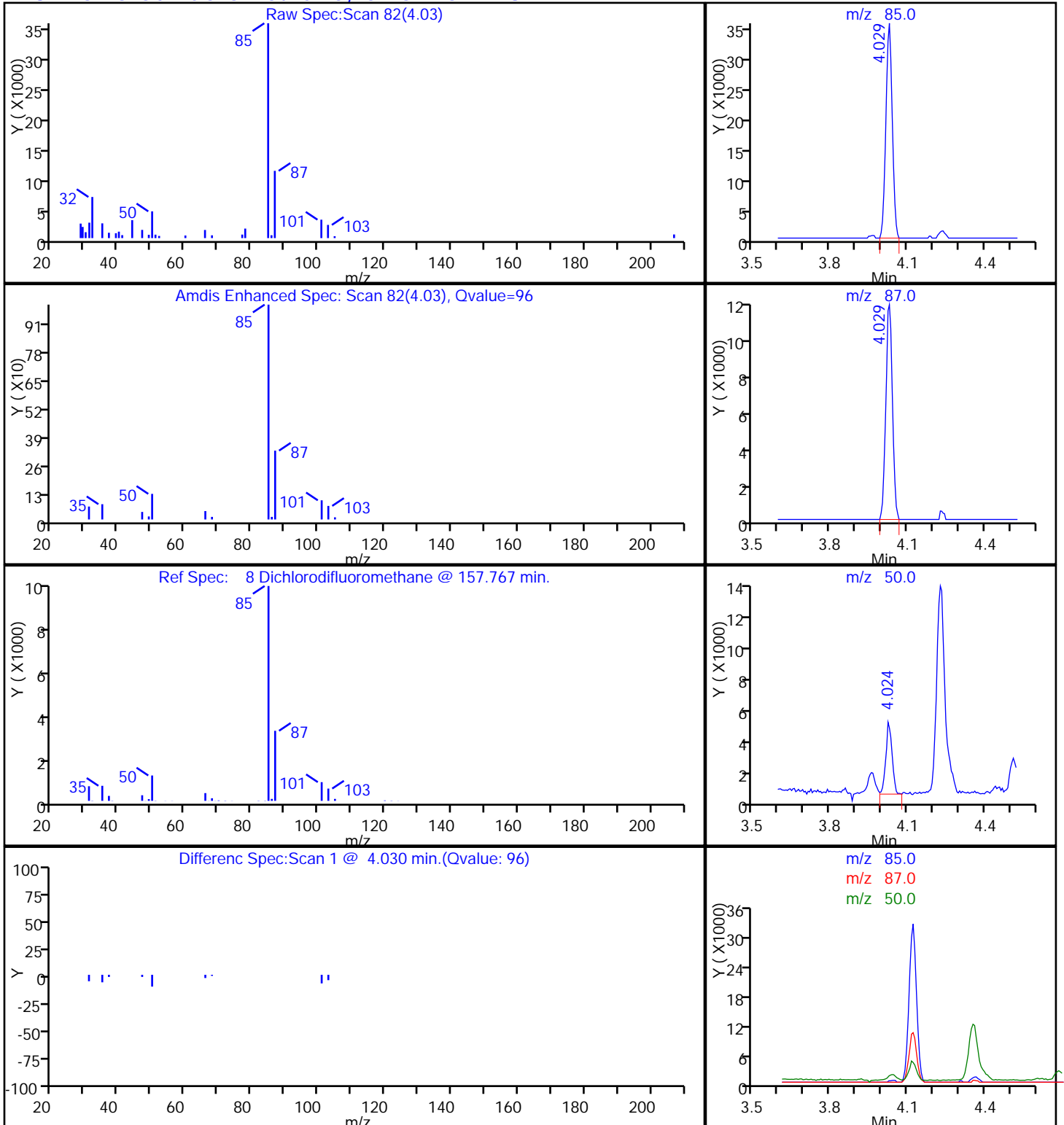
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

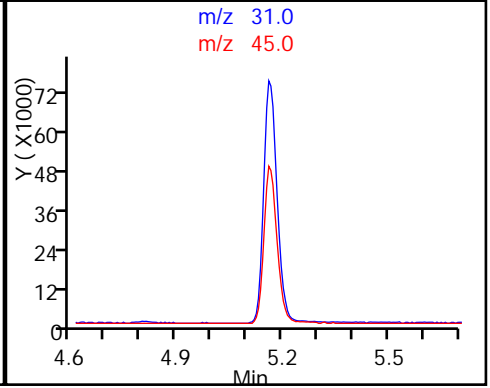
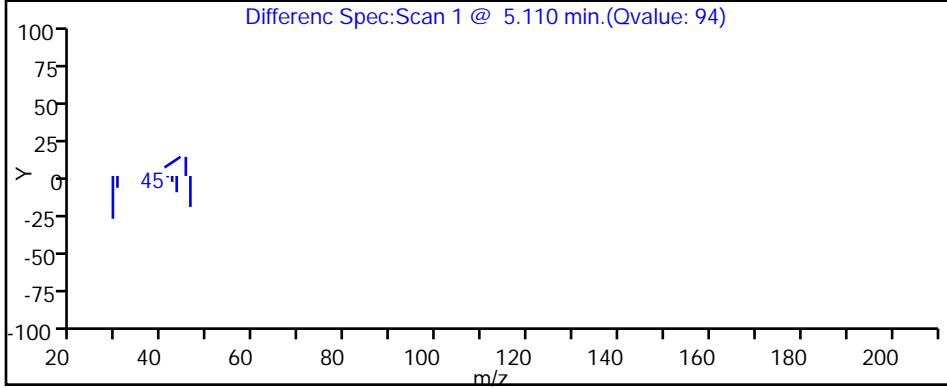
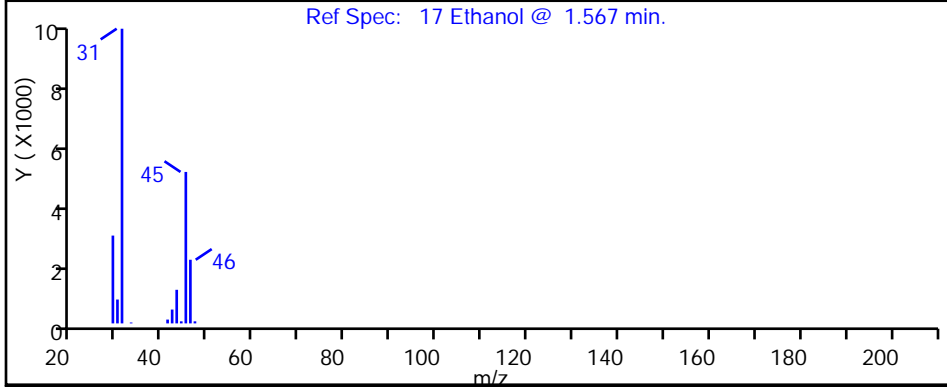
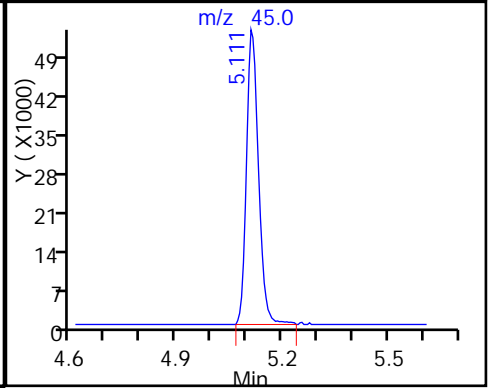
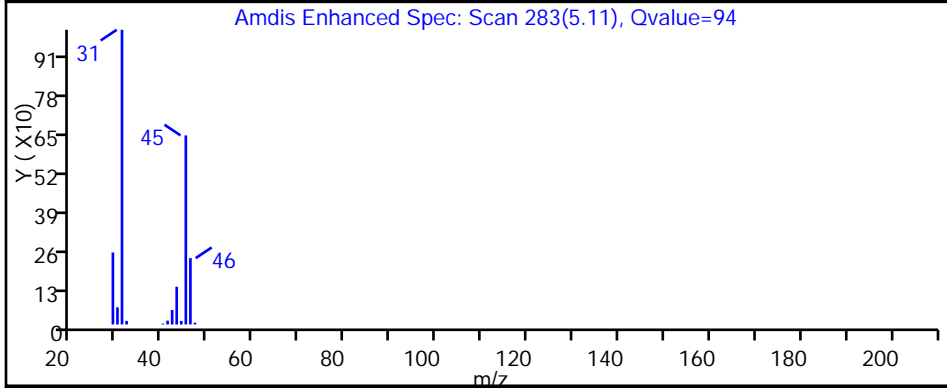
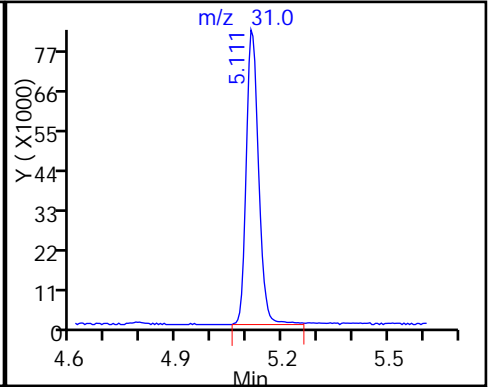
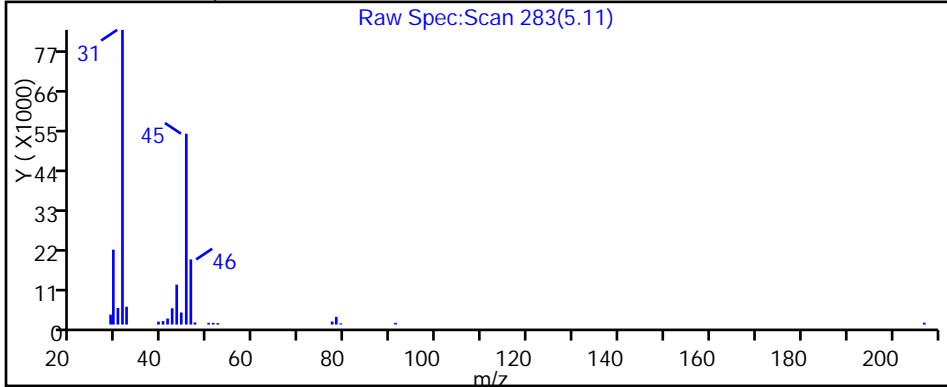
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

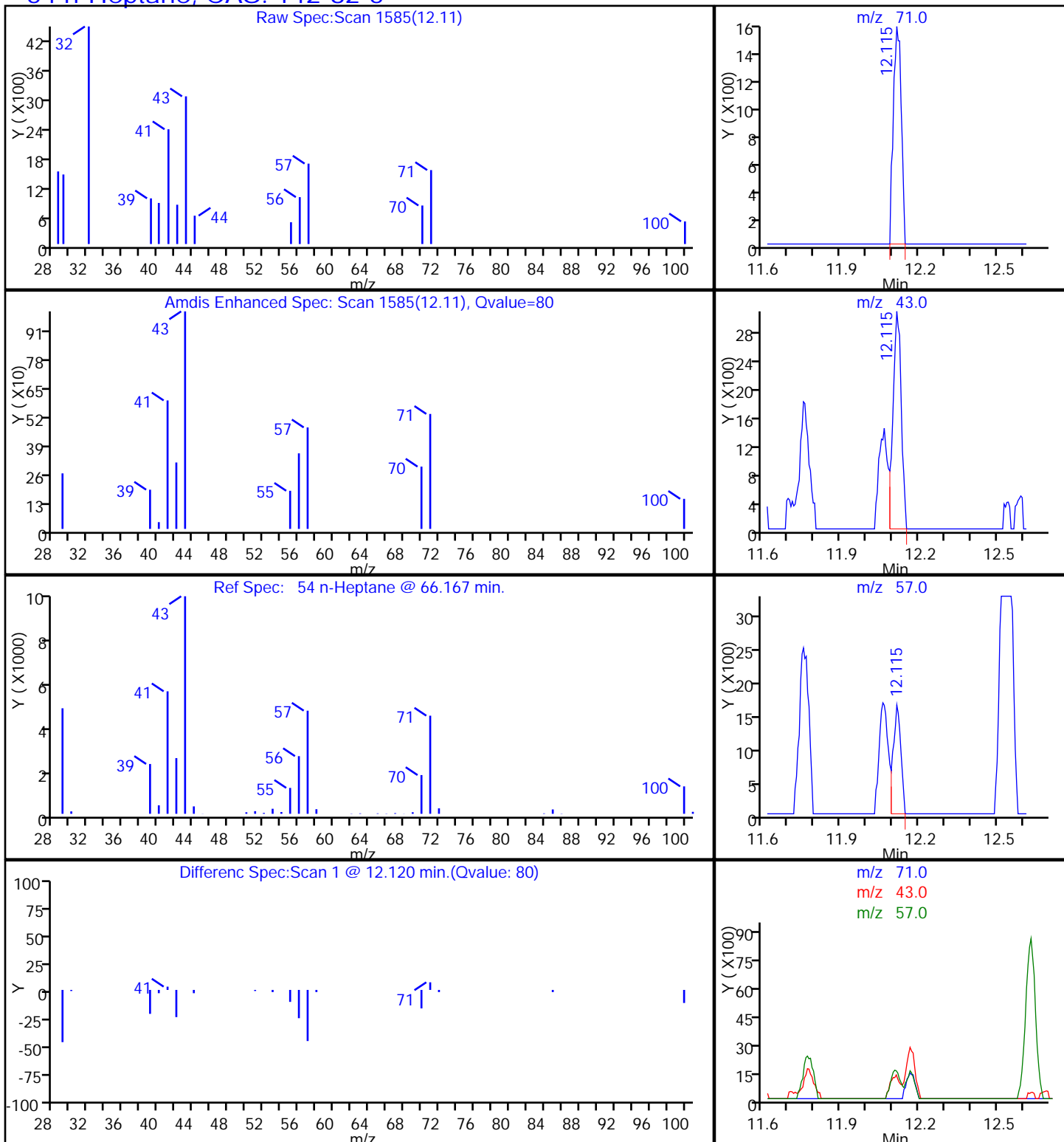
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

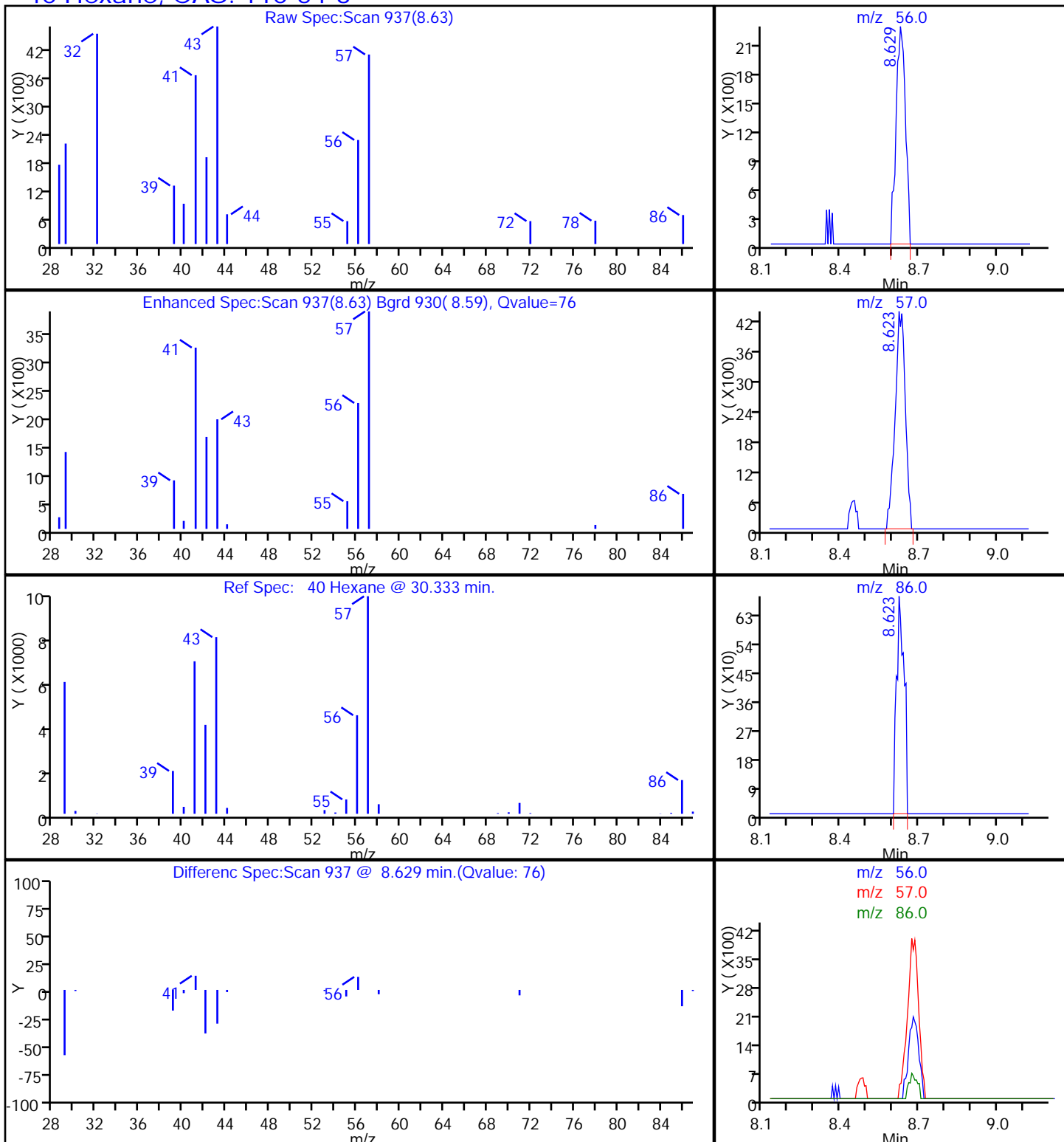
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

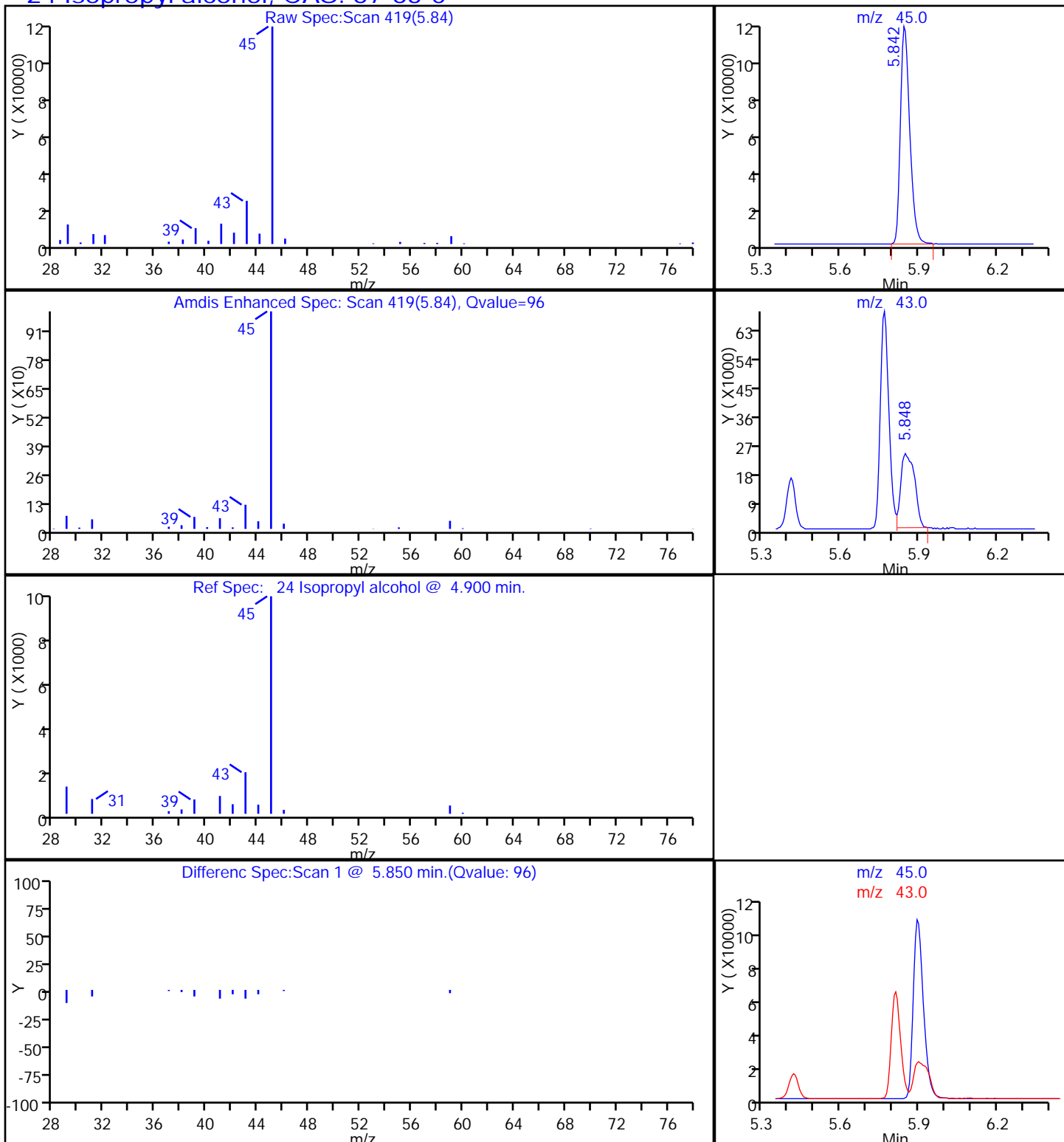
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

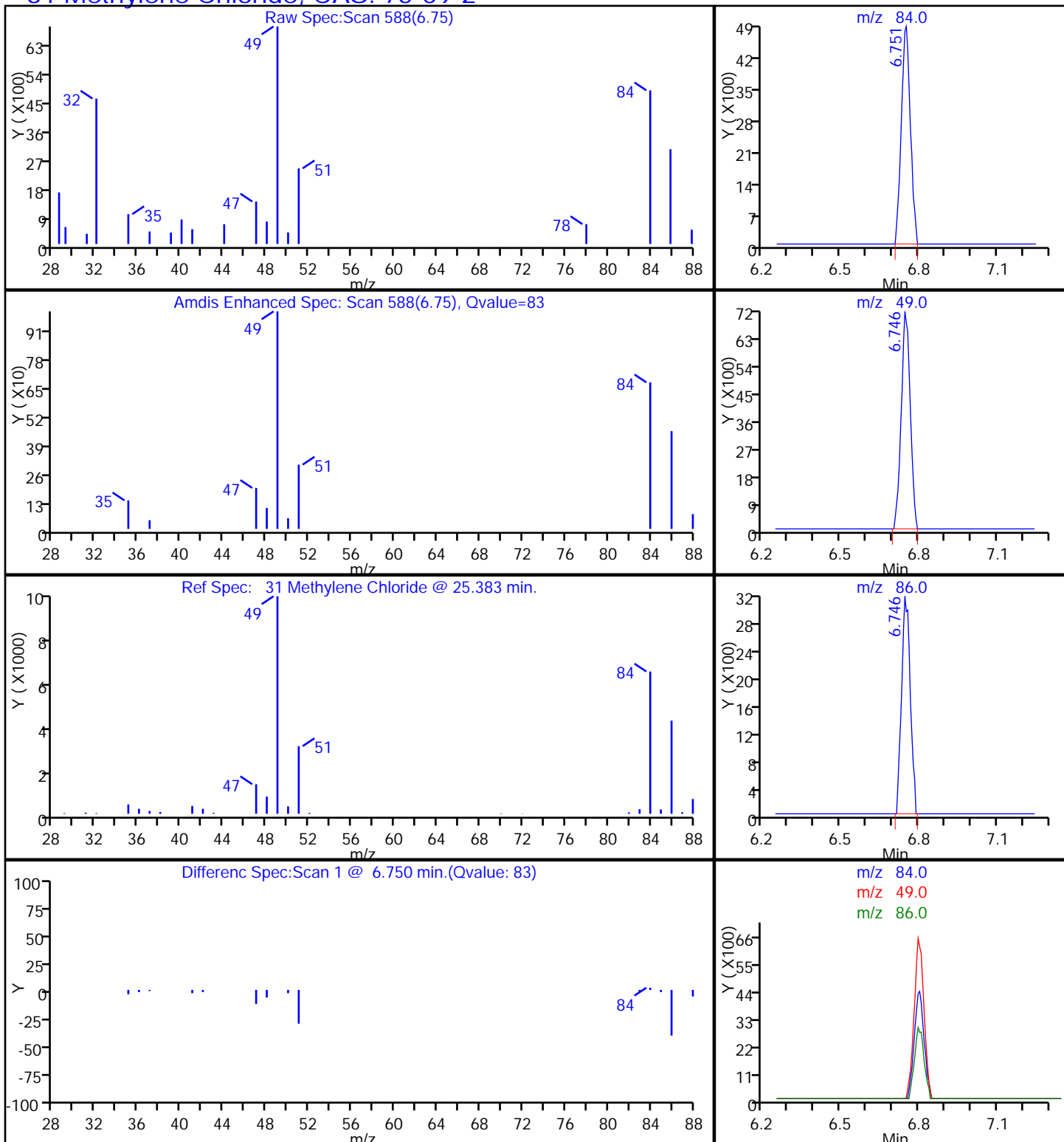
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

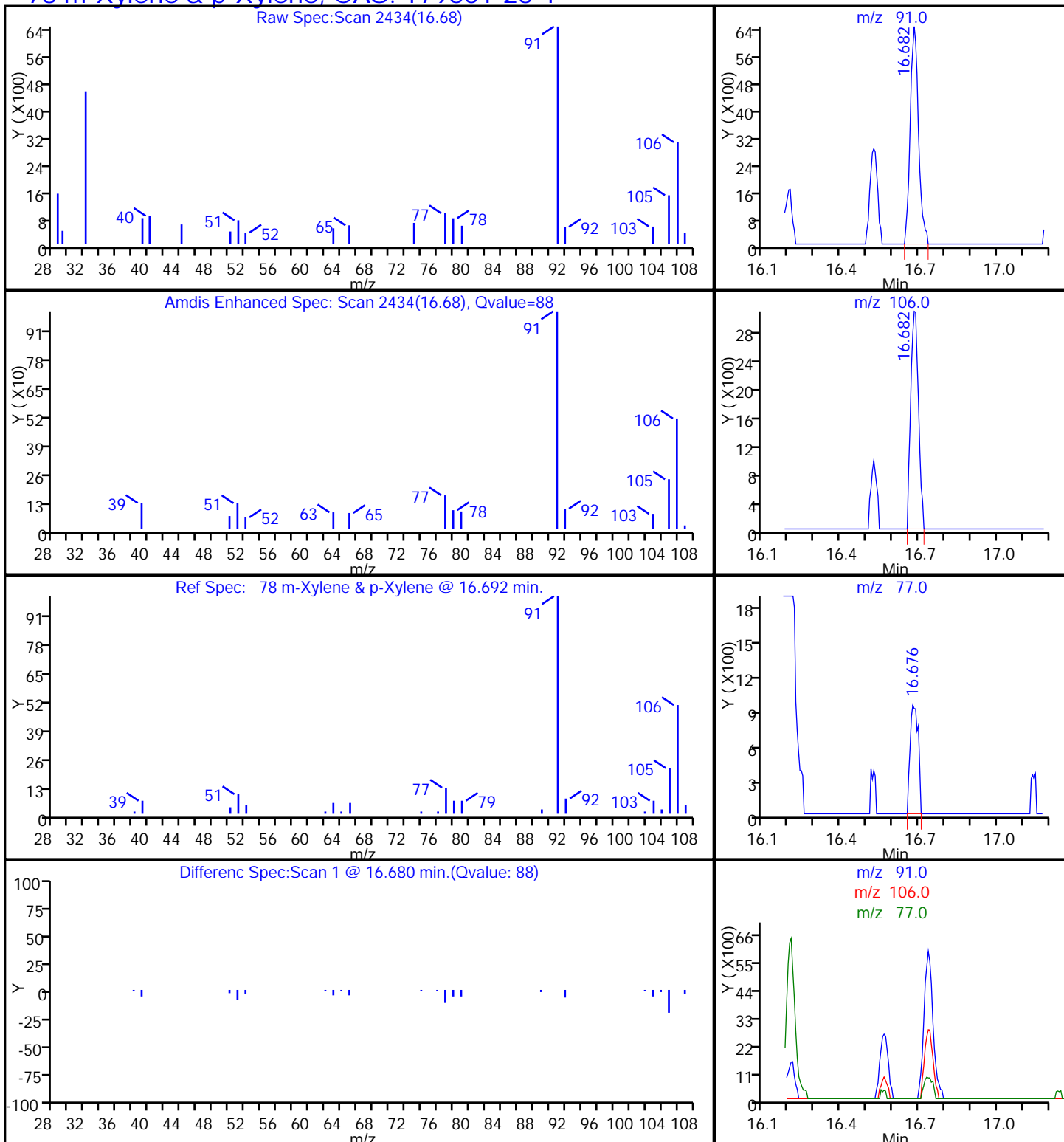
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

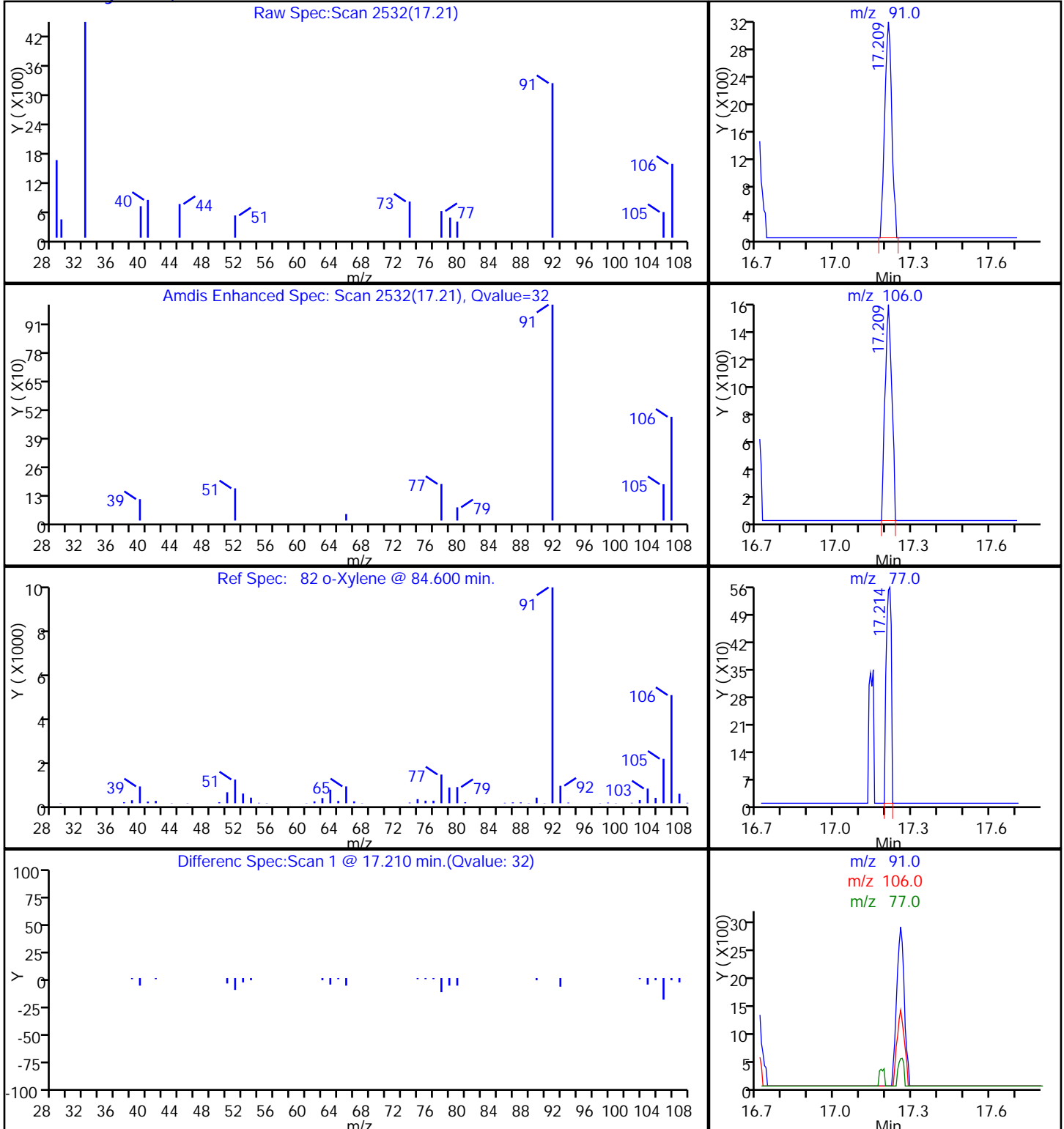
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

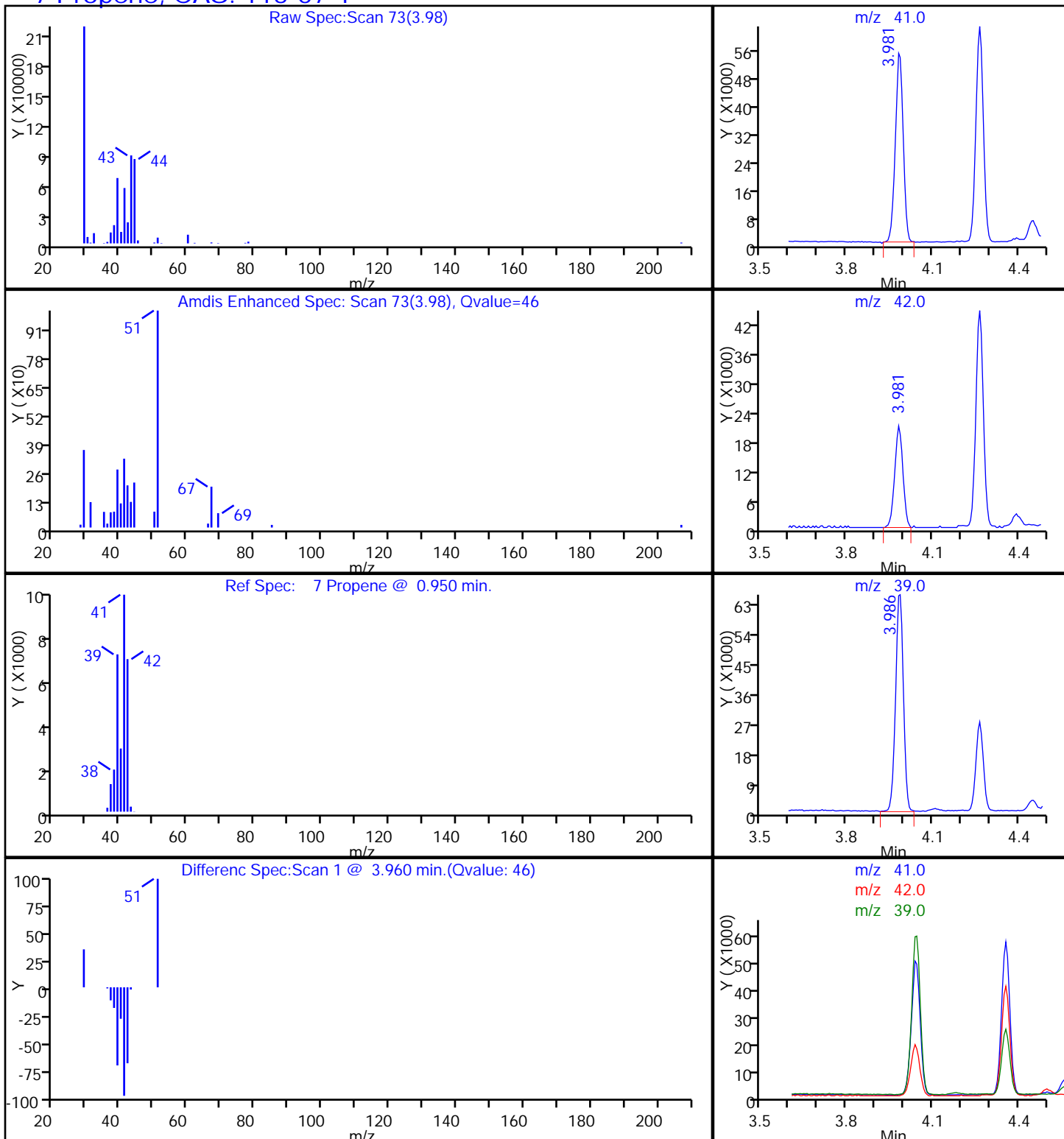
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

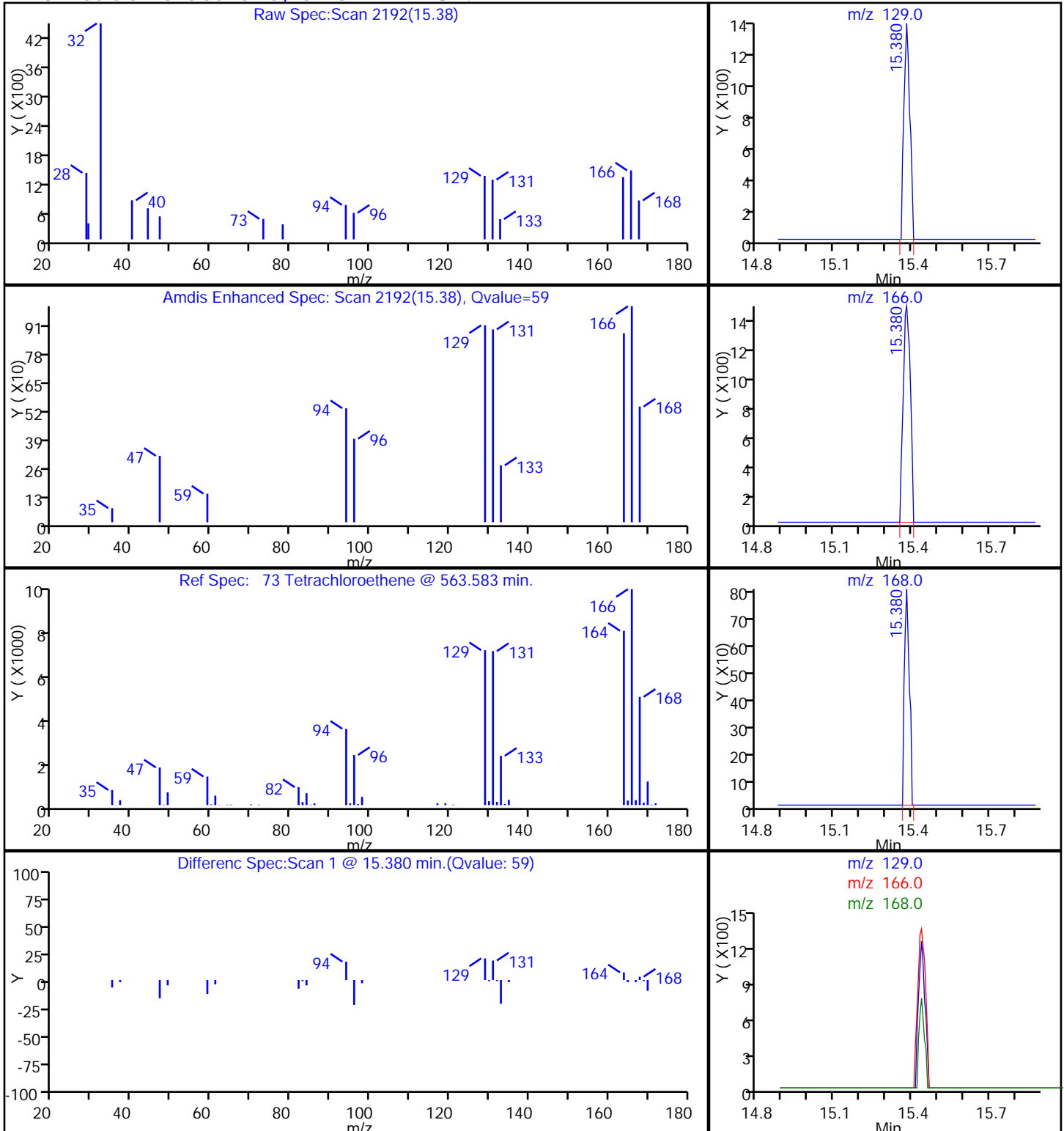
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

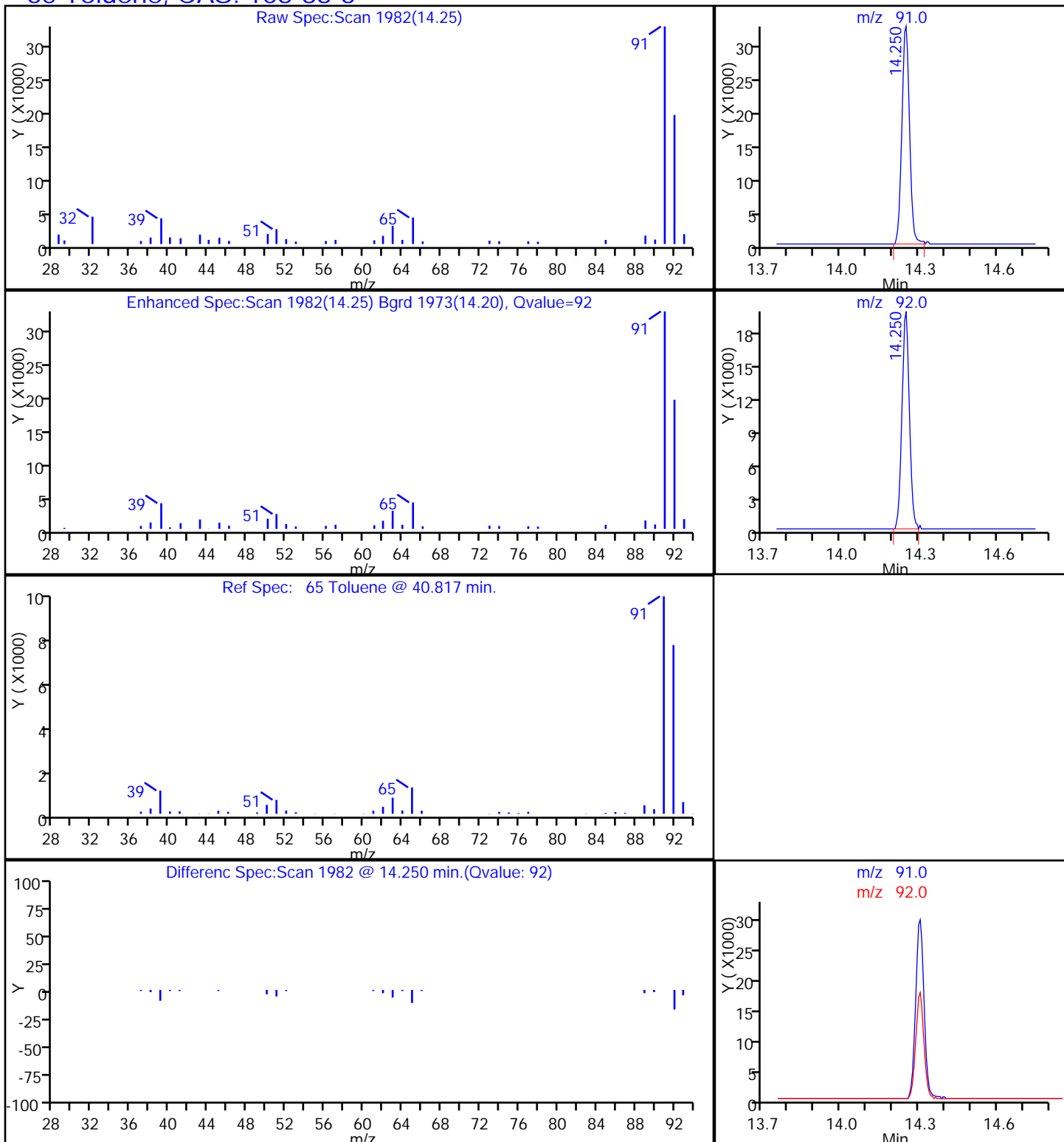
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P109.D

Injection Date: 20-Mar-2014 00:01:30

Instrument ID: MJ

Lims ID: 140-1063-A-24

Lab Sample ID: 140-1063-24

Client ID: IA1FD-E17

Operator ID: 403648

ALS Bottle#: 9 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

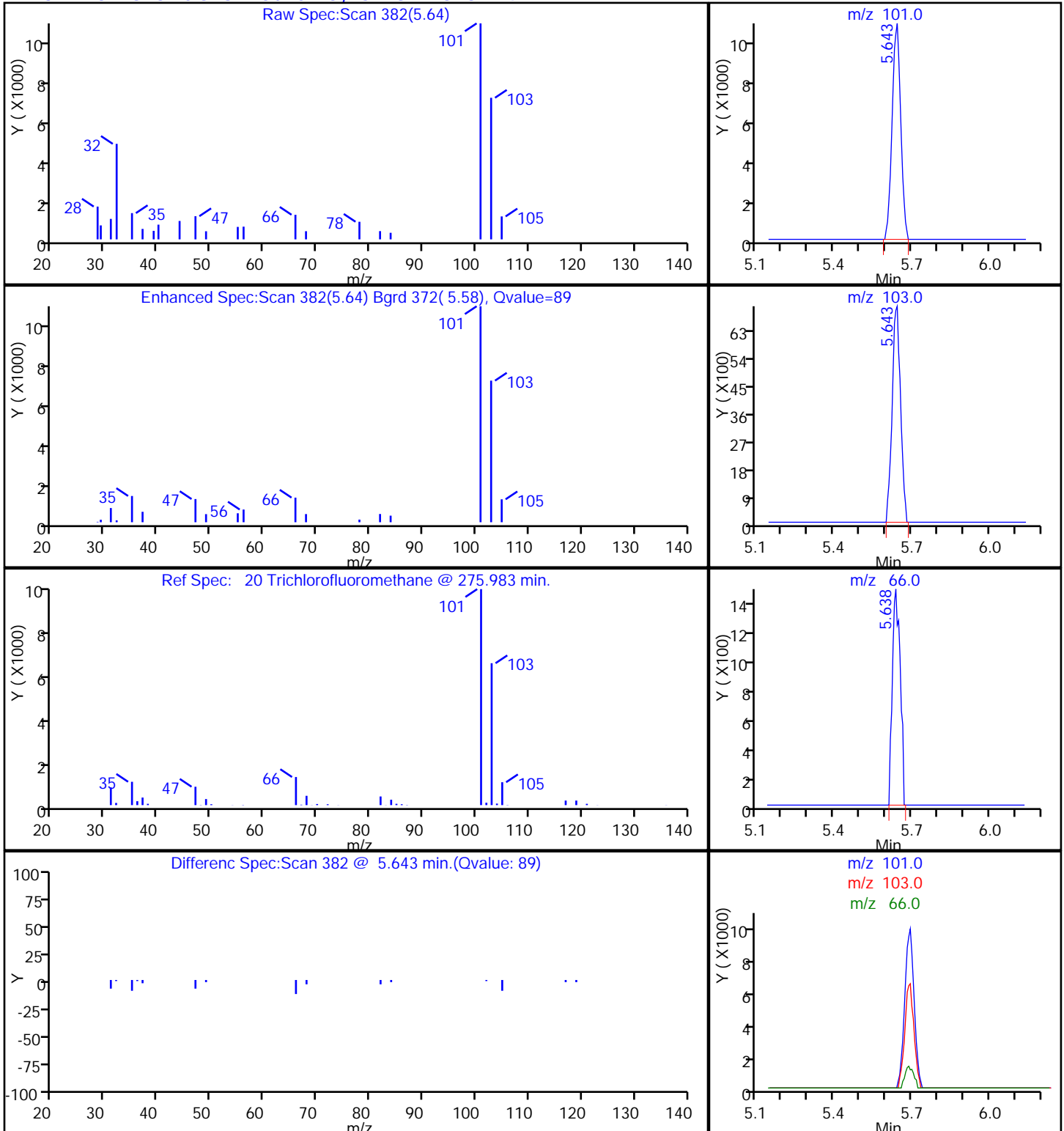
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25
 Matrix: Air Lab File ID: JC19P110.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.069	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.068	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.58		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.14	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	1.1		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.64		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.31	J	0.50	0.045
67-64-1	Acetone	58.08	7.4		5.0	1.4
71-43-2	Benzene	78.11	0.71		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25
 Matrix: Air Lab File ID: JC19P110.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.070	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.24		0.20	0.038
74-87-3	Chloromethane	50.49	1.2		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068
64-17-5	Ethanol	46.07	68		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.16	J	0.20	0.068
142-82-5	Heptane	100.21	0.11	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.17	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.1		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.22	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.48		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.14	J	0.20	0.061
115-07-1	Propene	42.08	3.8	cn	0.50	0.077
100-42-5	Styrene	104.15	0.10	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.044	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.6		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25
 Matrix: Air Lab File ID: JC19P110.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:10
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 01:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25
 Matrix: Air Lab File ID: JC19P110.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.53	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.34	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	1.3		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.82	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	3.2		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.9		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	J	2.0	0.18
67-64-1	Acetone	58.08	18		12	3.3
71-43-2	Benzene	78.11	2.3		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25
 Matrix: Air Lab File ID: JC19P110.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:10
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 01:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	1.2		0.98	0.19
74-87-3	Chloromethane	50.49	2.5		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	130		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.70	J	0.87	0.30
142-82-5	Heptane	100.21	0.44	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.59	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	12		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.78	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	2.1		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.59	J	0.87	0.26
115-07-1	Propene	42.08	6.6	cn	0.86	0.13
100-42-5	Styrene	104.15	0.43	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	0.30	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.9		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: IA2-E17 Lab Sample ID: 140-1063-25
 Matrix: Air Lab File ID: JC19P110.D
 Analysis Method: TO-15 Date Collected: 03/13/2014 16:10
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 01:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D
 Lims ID: 140-1063-A-25 Lab Sample ID: 140-1063-25
 Client ID: IA2-E17
 Sample Type: Client
 Inject. Date: 20-Mar-2014 01:49:30 ALS Bottle#: 10 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1063-a-25
 Misc. Info.: J031914,TO15,,140-0000532-017
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:49:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:49:12

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	90	361048	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.542	-0.009	94	1756353	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.192	16.201	-0.009	87	1478544	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	92	990341	3.79	
7 Propene	41	3.975	3.973	0.002	98	168649	1.52	
8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	96	62384	0.1744	
9 Chloromethane	52	4.228	4.231	-0.003	100	19822	0.4879	
14 Butadiene	54	4.513	4.516	-0.003	29	21404	0.2301	
17 Ethanol	31	5.116	5.119	-0.003	95	787396	27.2	
19 2-Methylbutane	43	5.406	5.409	-0.003	90	38997	0.2543	
20 Trichlorofluoromethane	101	5.638	5.646	-0.008	87	25570	0.0814	
23 Acetone	58	5.761	5.770	-0.009	90	152510	2.97	
24 Isopropyl alcohol	45	5.847	5.850	-0.003	97	275635	2.03	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.574	6.582	-0.008	60	6028	0.0277	
31 Methylene Chloride	84	6.751	6.754	-0.003	85	8626	0.0893	
39 2-Butanone (MEK)	72	8.591	8.589	0.002	100	14749	0.4316	
40 Hexane	56	8.628	8.637	-0.009	63	6550	0.0675	
43 Chloroform	83	9.387	9.396	-0.009	50	20267	0.0963	
48 Benzene	78	11.017	11.026	-0.009	96	85446	0.2835	
50 Carbon tetrachloride	117	11.038	11.047	-0.009	86	7004	0.0281	
54 n-Heptane	71	12.120	12.123	-0.003	77	4575	0.0429	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.371	0.002	86	22462	0.1220	
65 Toluene	91	14.250	14.253	-0.003	93	172691	0.6296	
73 Tetrachloroethene	129	15.374	15.383	-0.009	66	2272	0.0178	
76 Ethylbenzene	91	16.526	16.529	-0.003	76	19594	0.0647	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	99	47187	0.1930	
80 Styrene	104	17.144	17.147	-0.003	71	6775	0.0404	
82 o-Xylene	91	17.203	17.212	-0.009	76	13552	0.0547	
93 1,2,4-Trimethylbenzene	105	18.936	18.939	-0.003	61	7859	0.0274	
97 1,4-Dichlorobenzene	146	19.291	19.294	-0.003	82	9598	0.0546	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Worklist Smp#: 17

Client ID: IA2-E17

Purge Vol: 500.000 mL

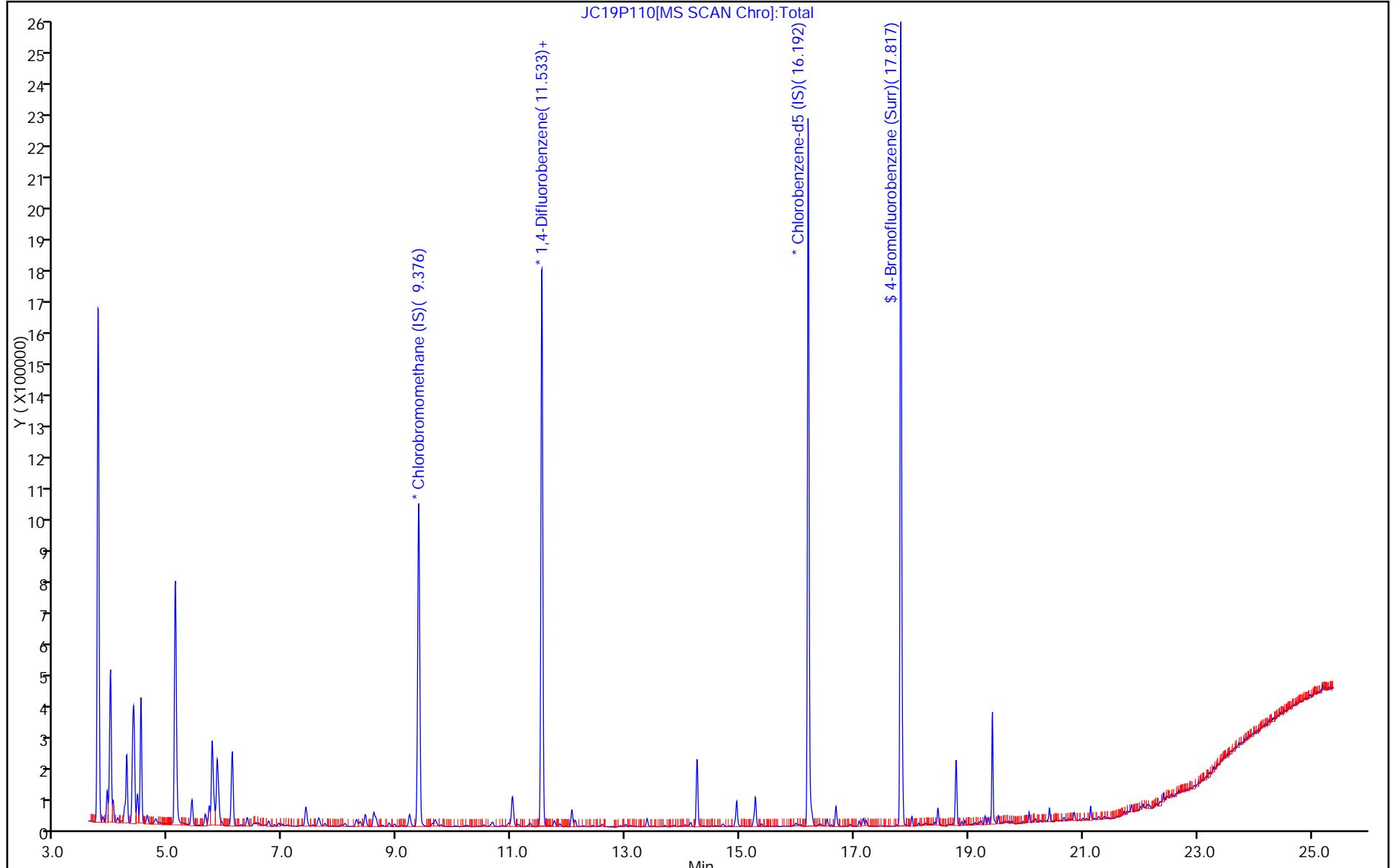
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

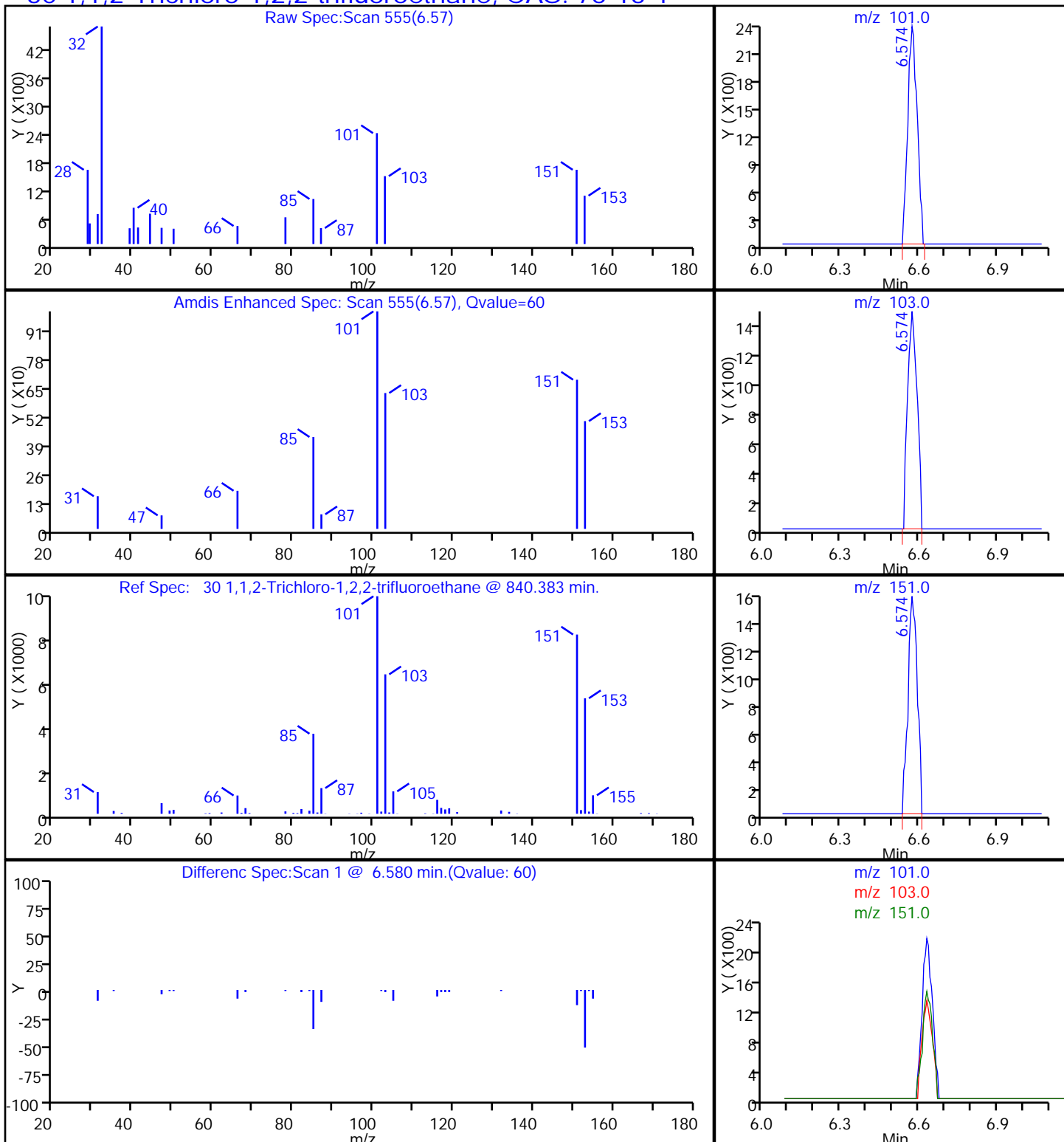
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

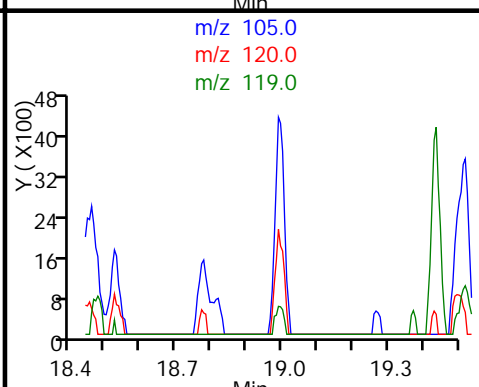
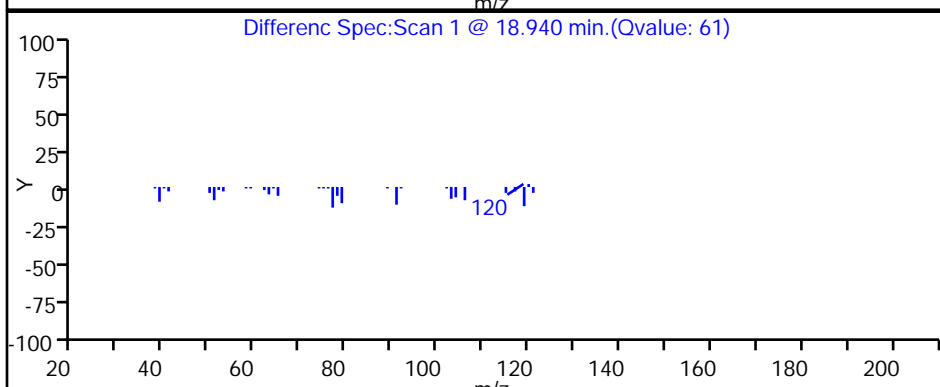
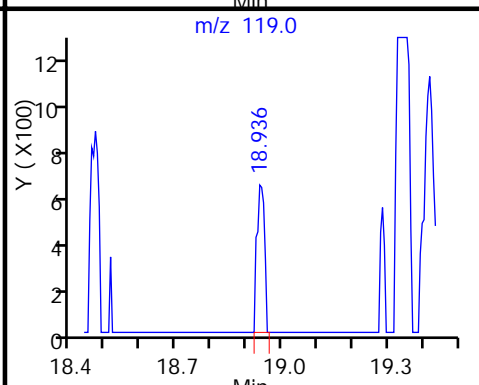
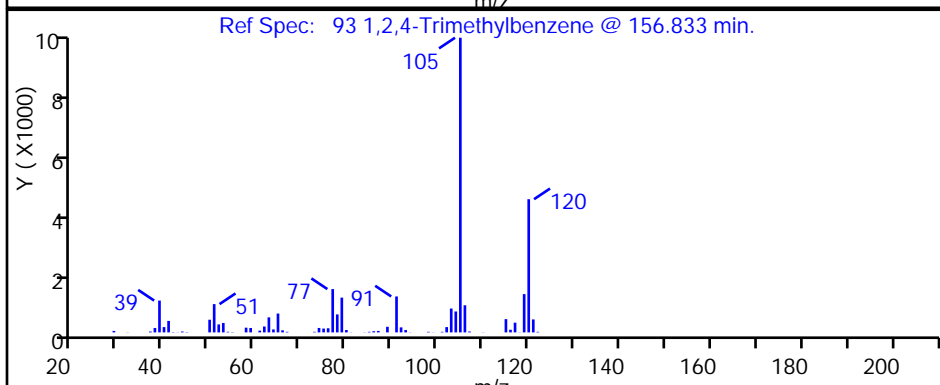
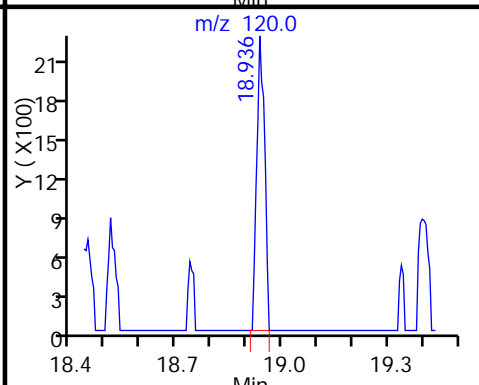
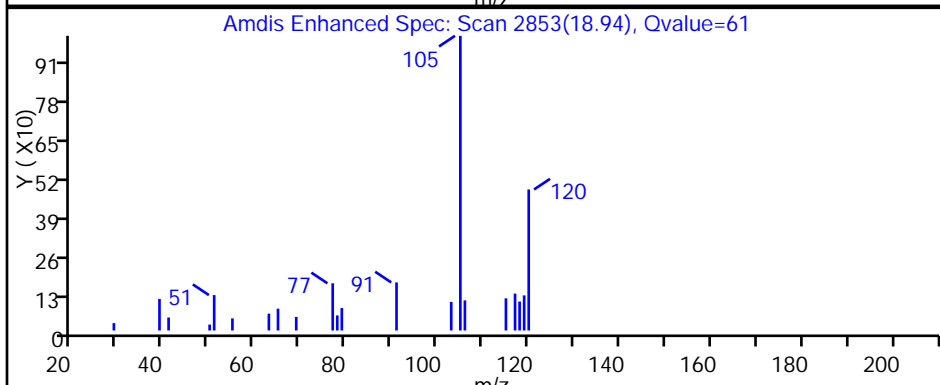
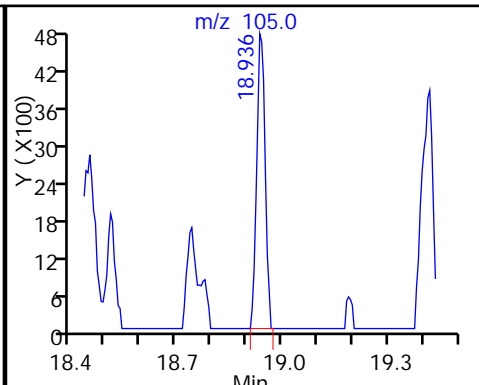
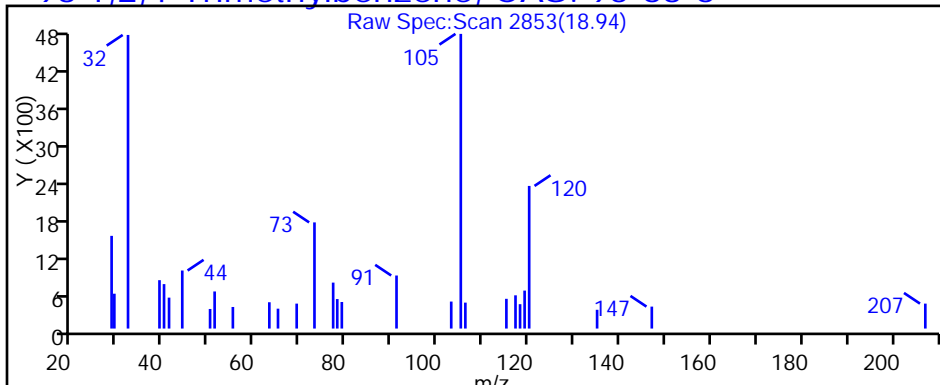
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

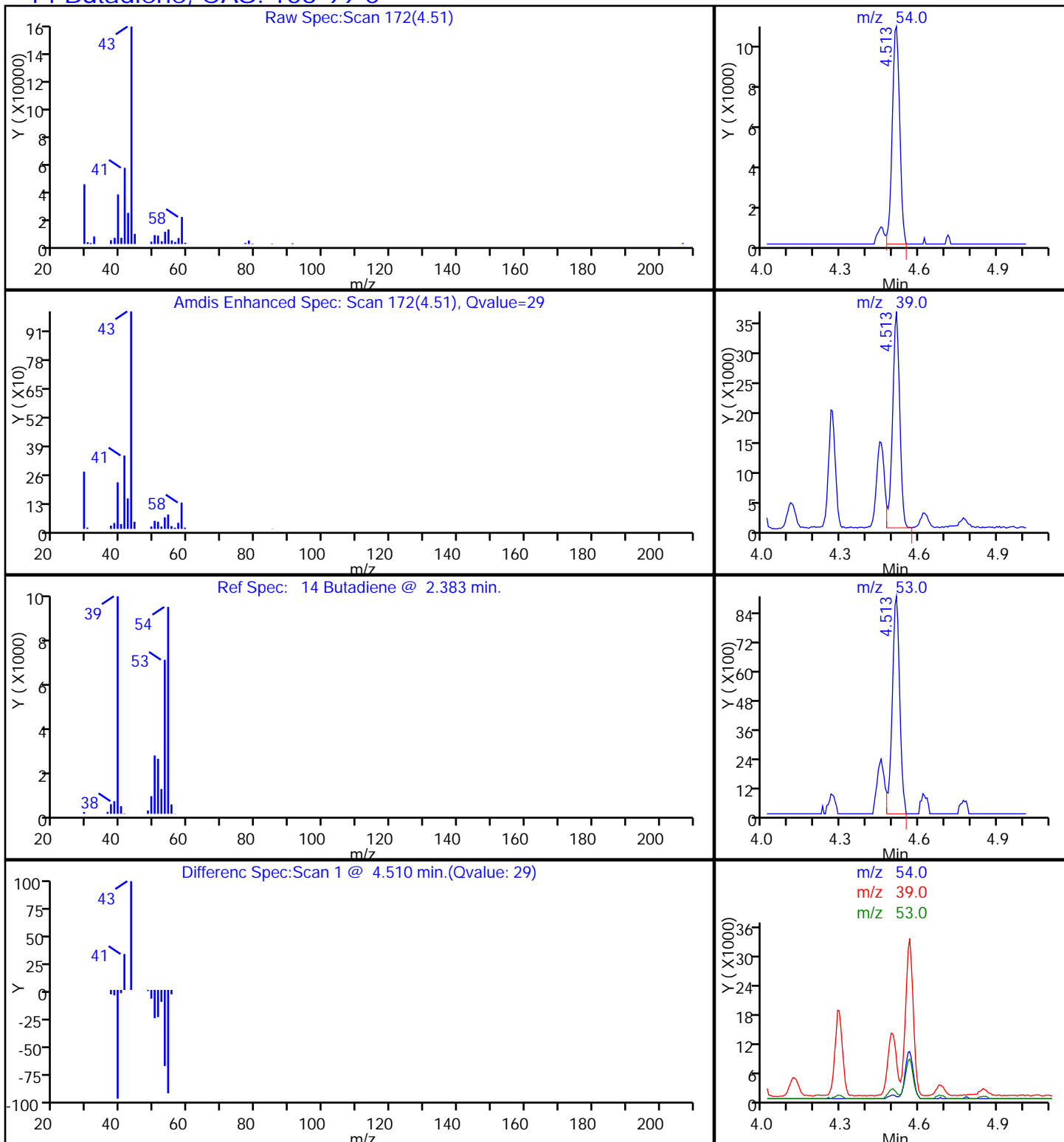
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

14 Butadiene, CAS: 106-99-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

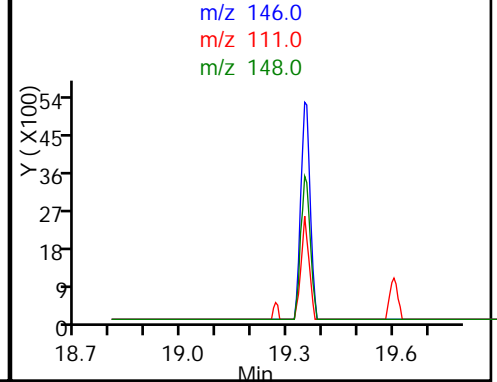
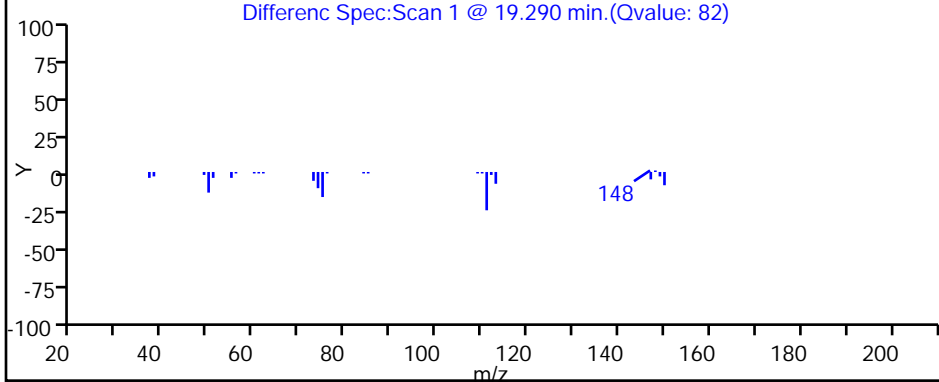
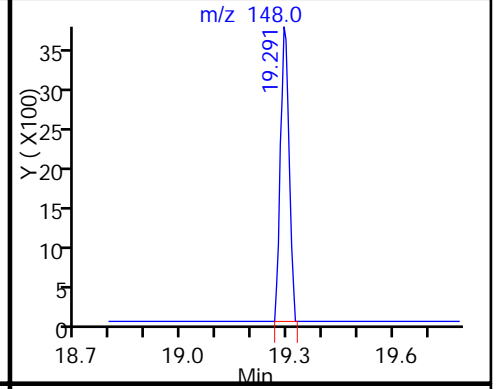
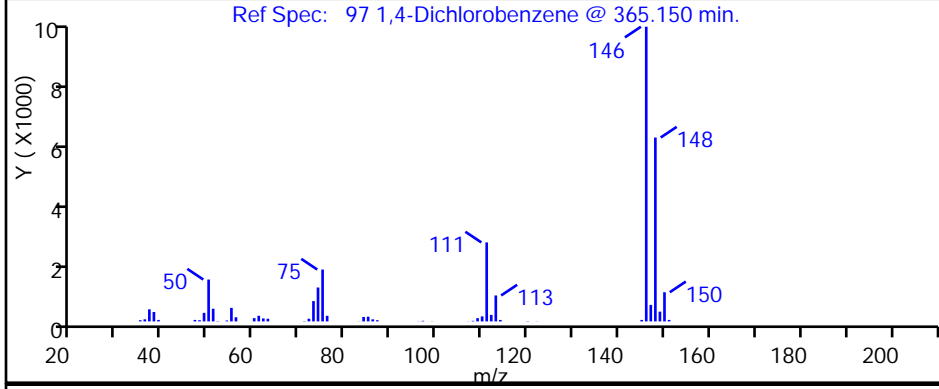
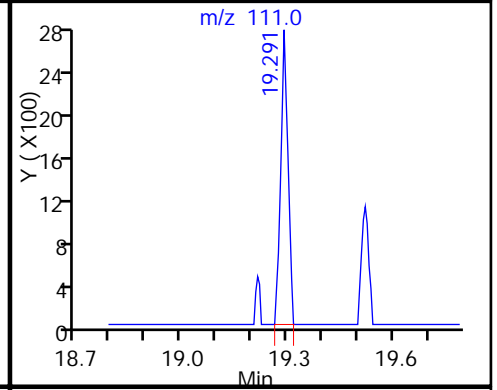
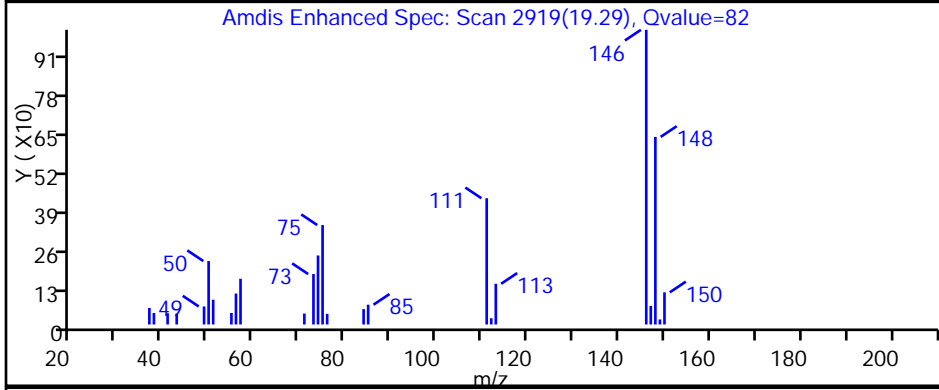
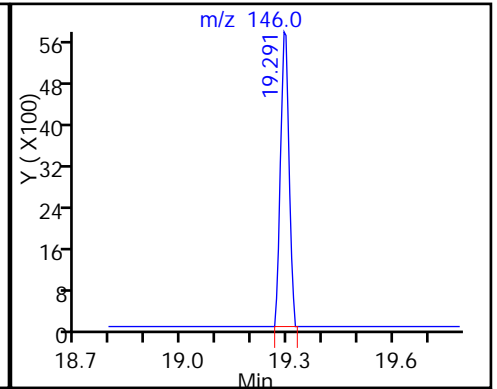
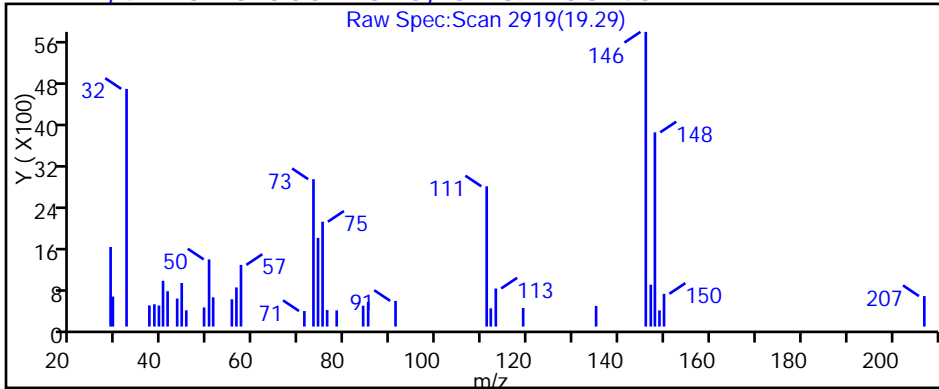
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

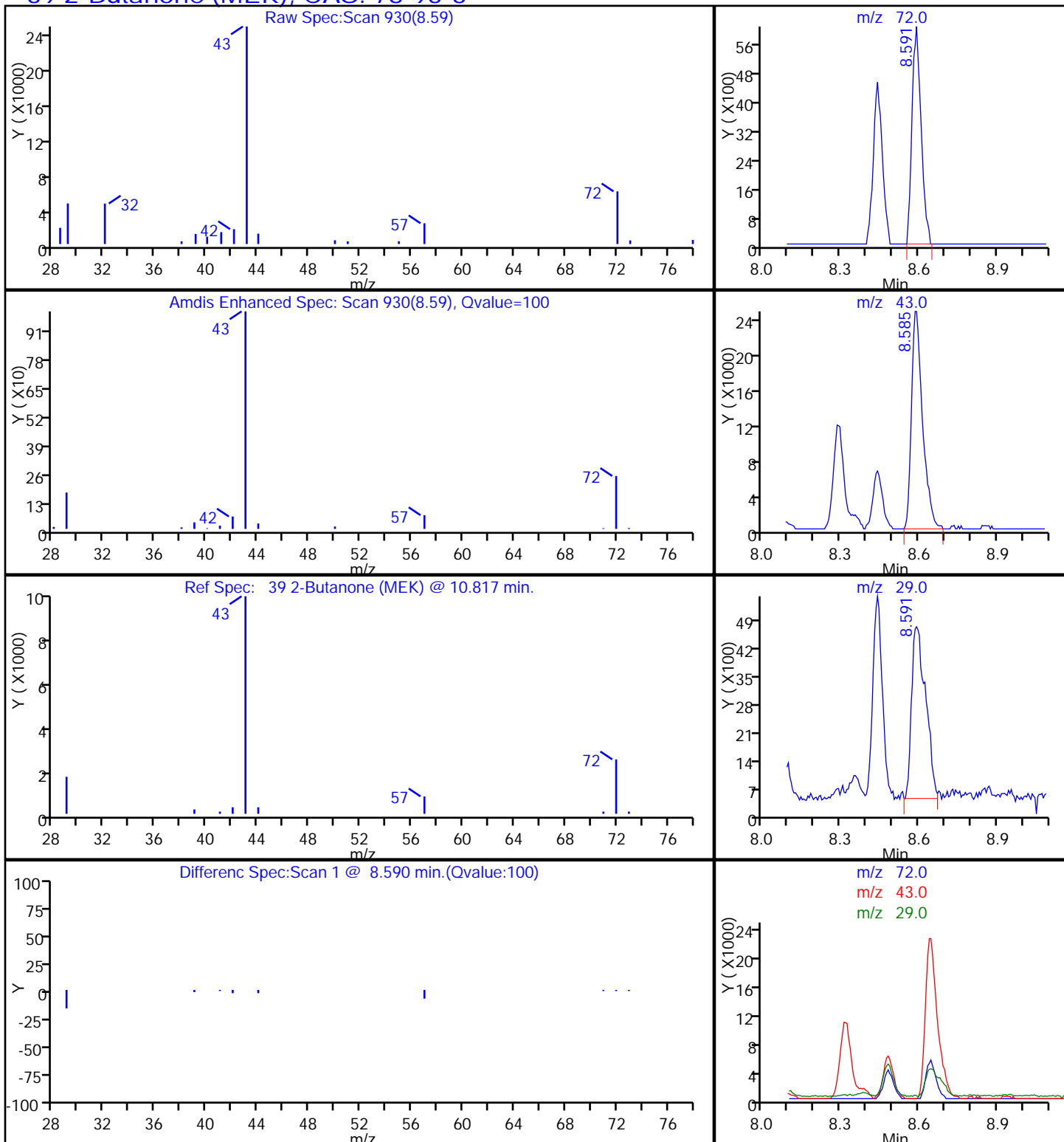
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

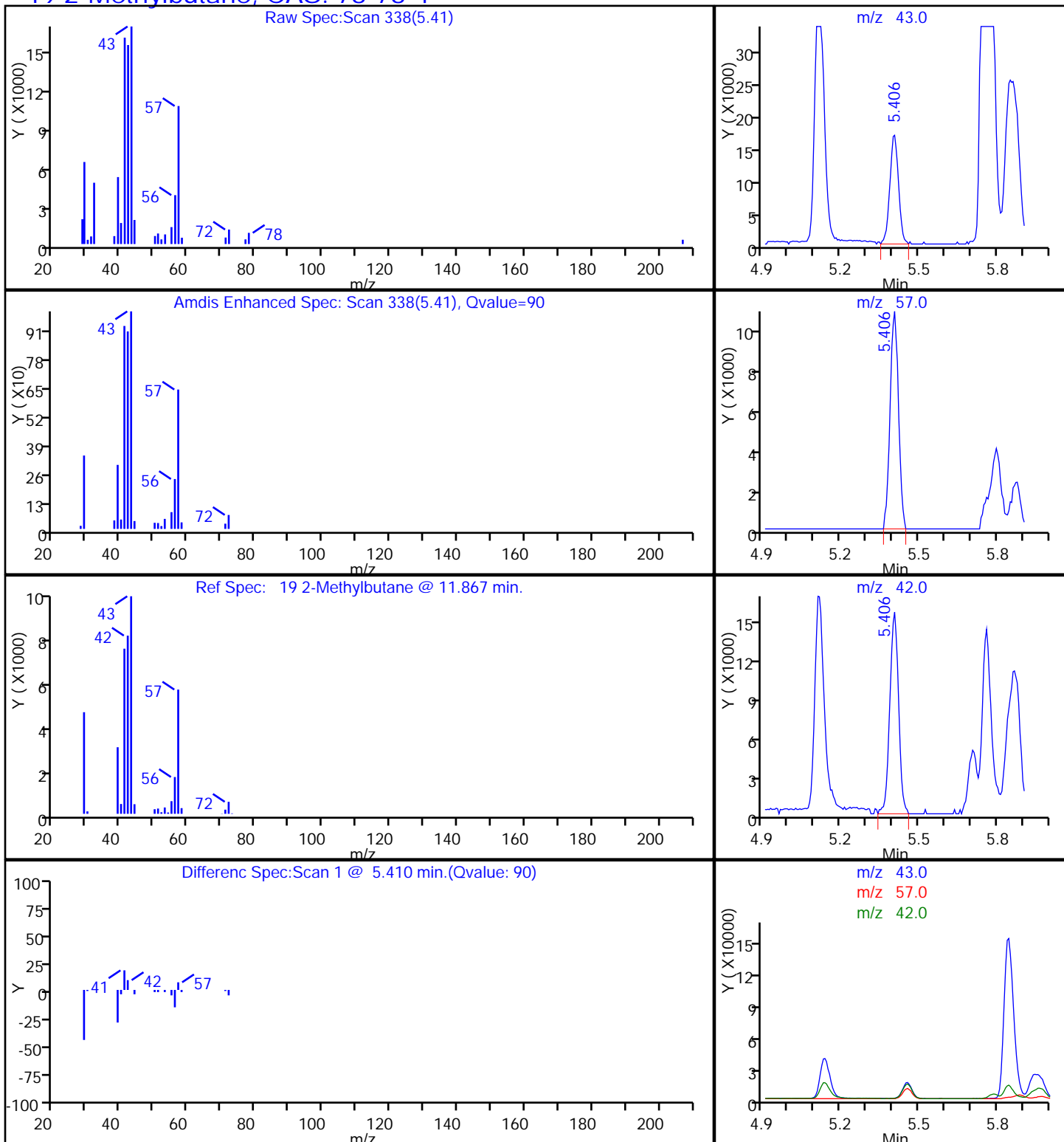
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

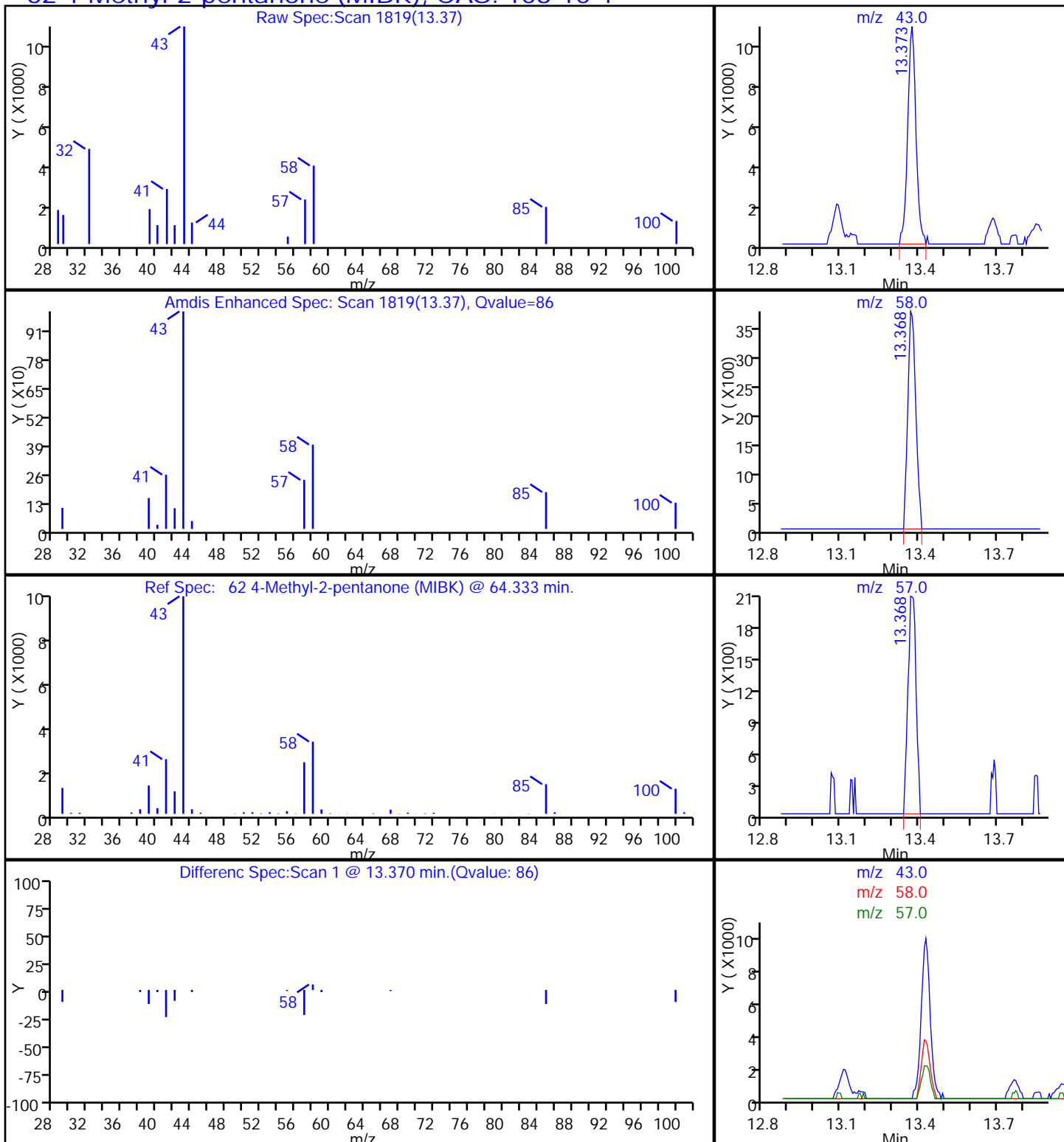
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

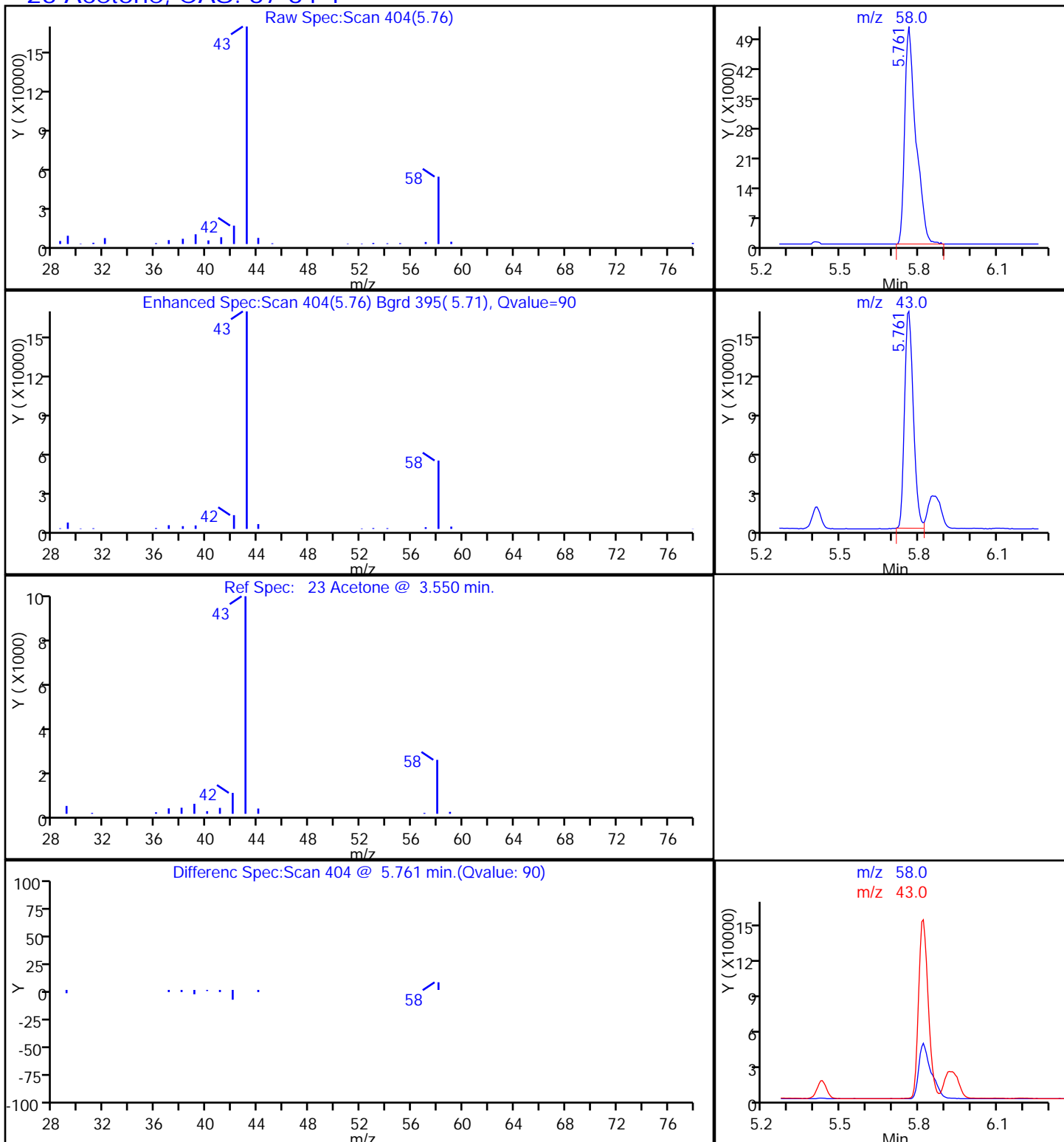
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

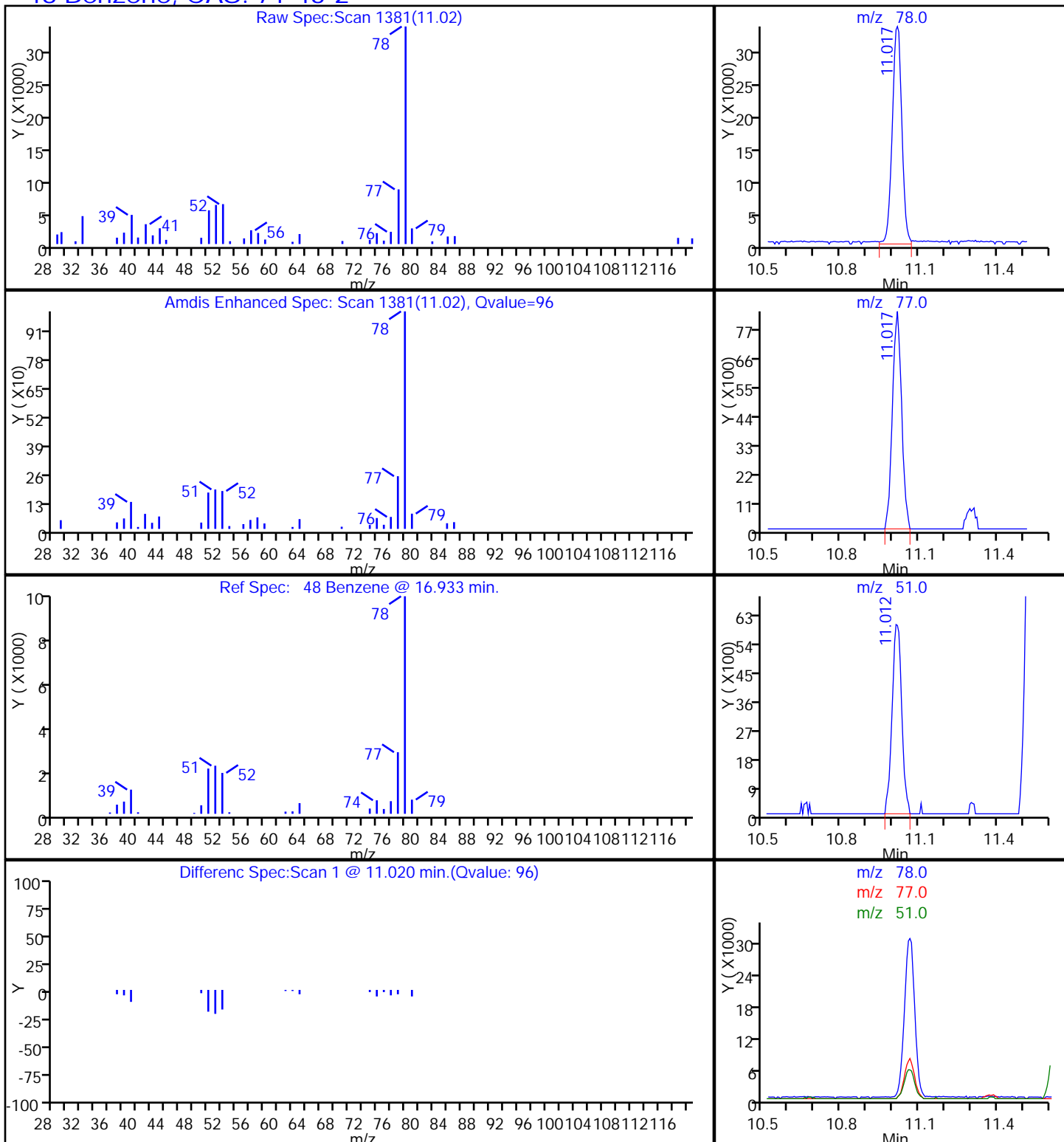
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

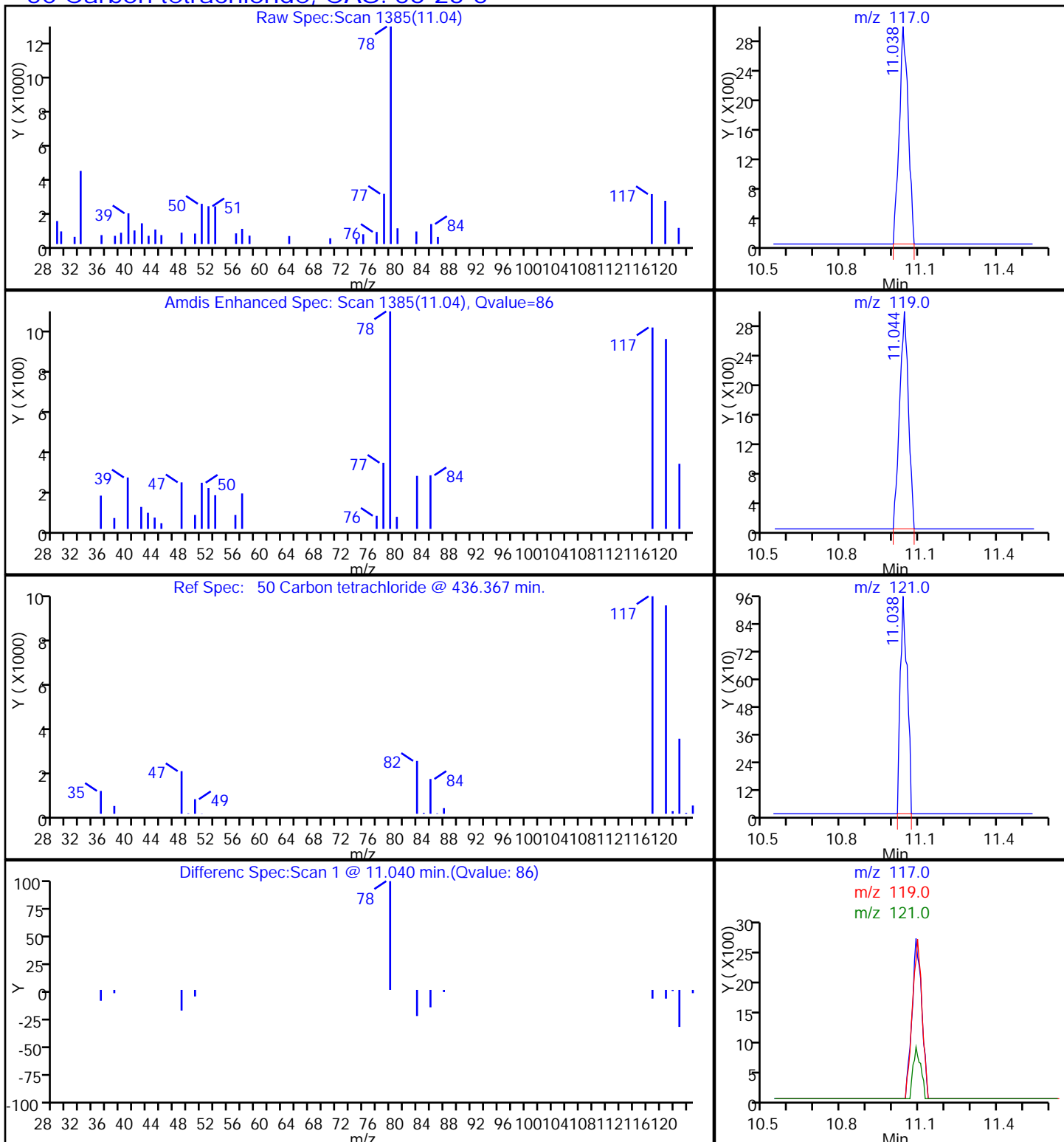
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

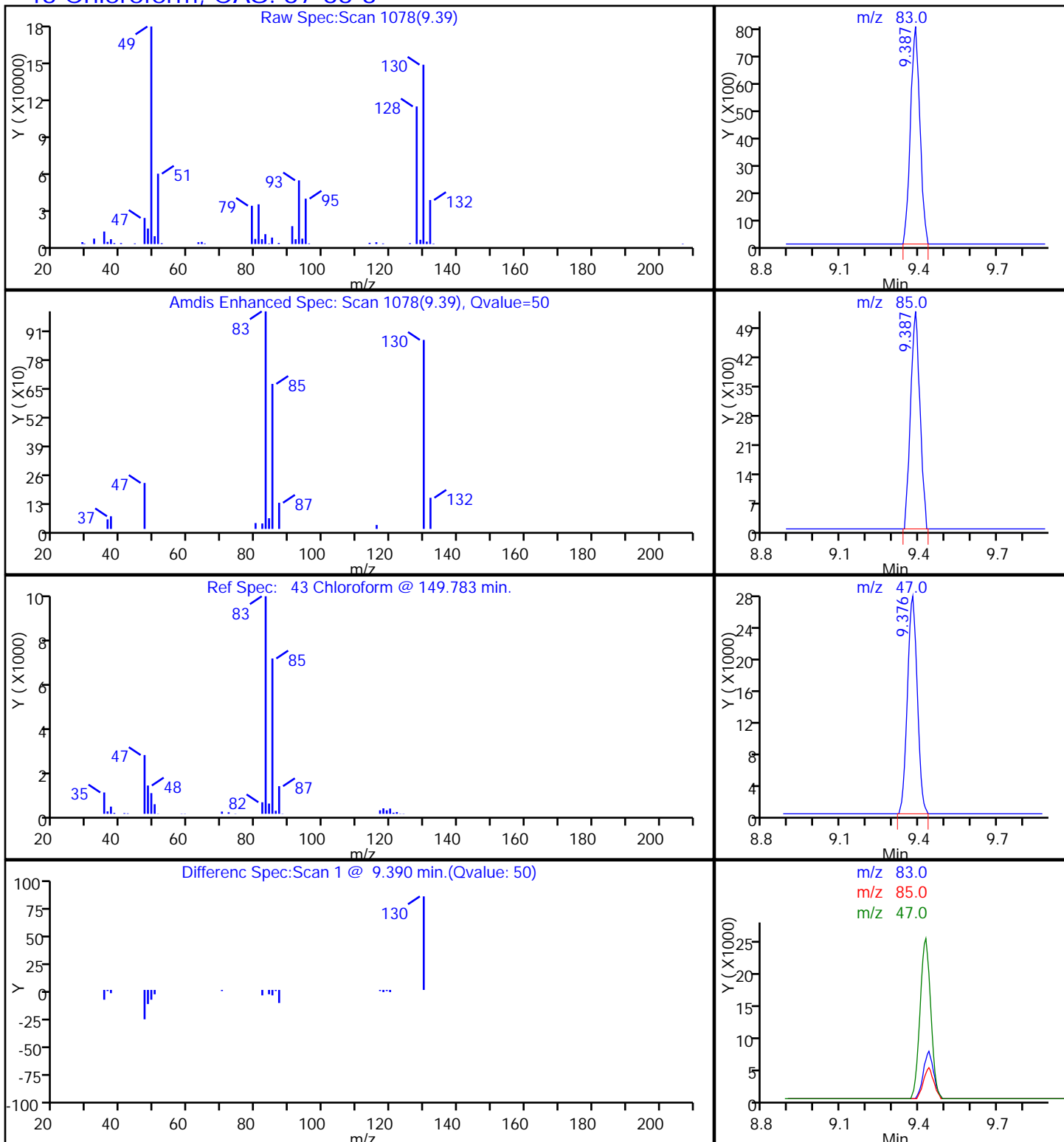
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

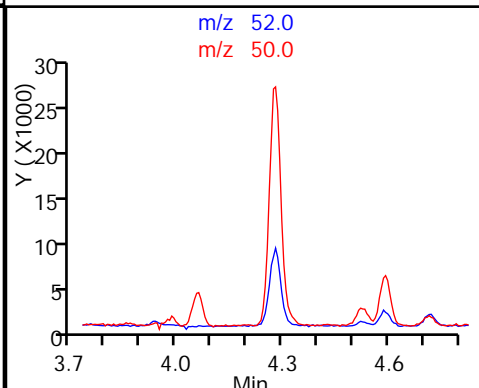
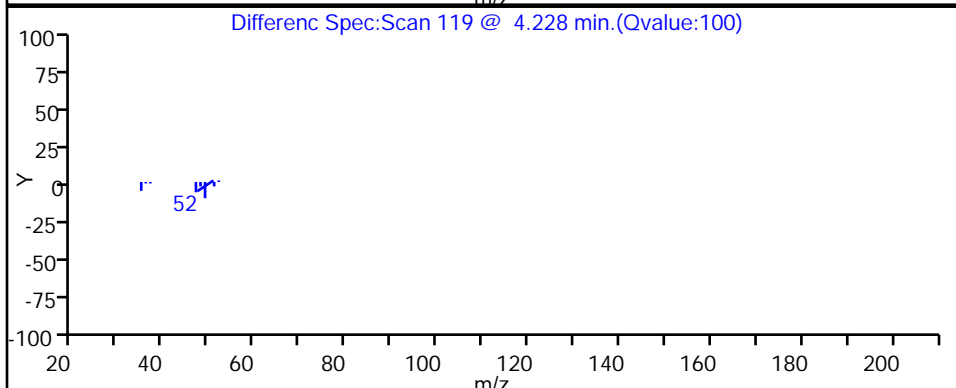
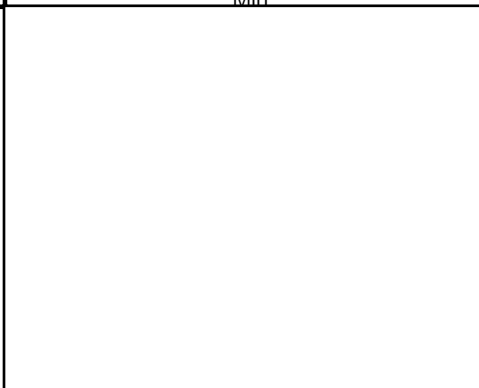
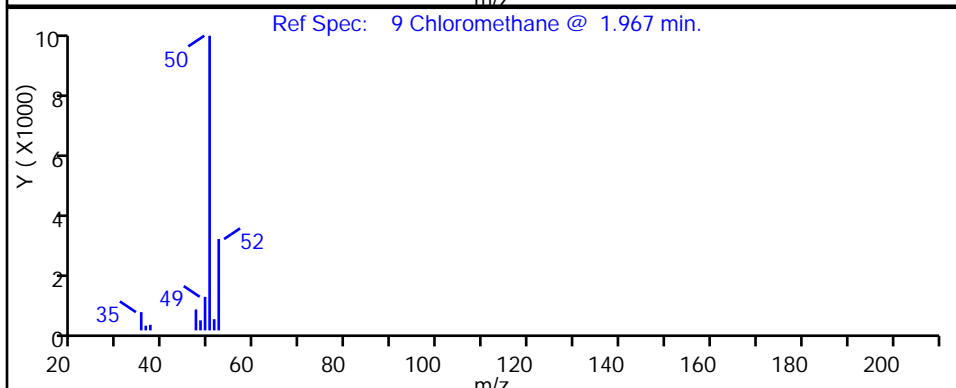
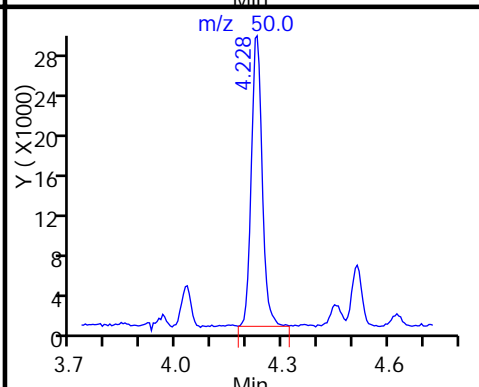
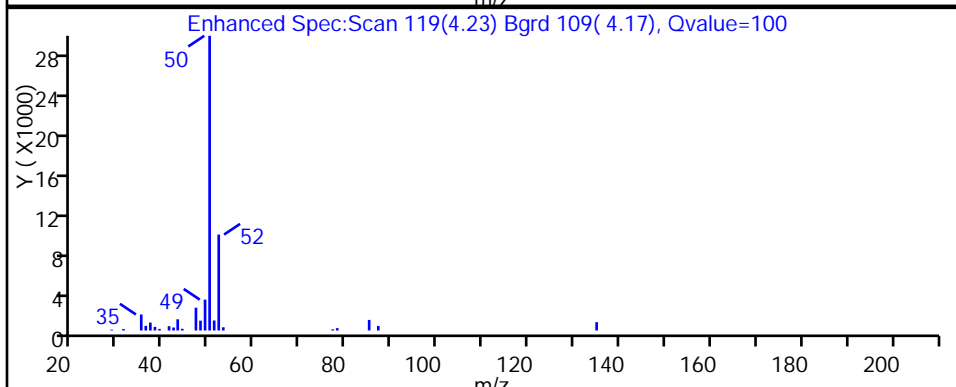
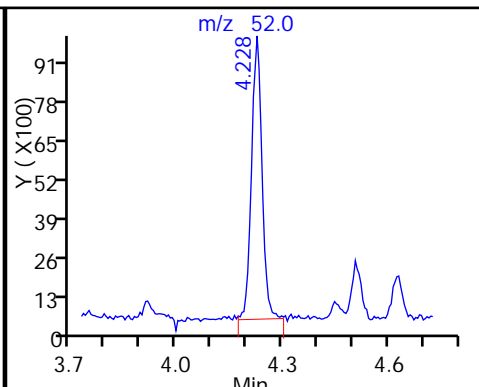
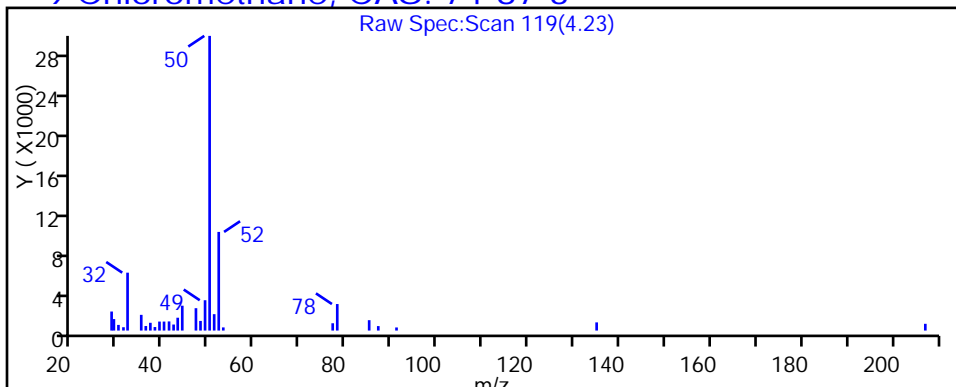
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

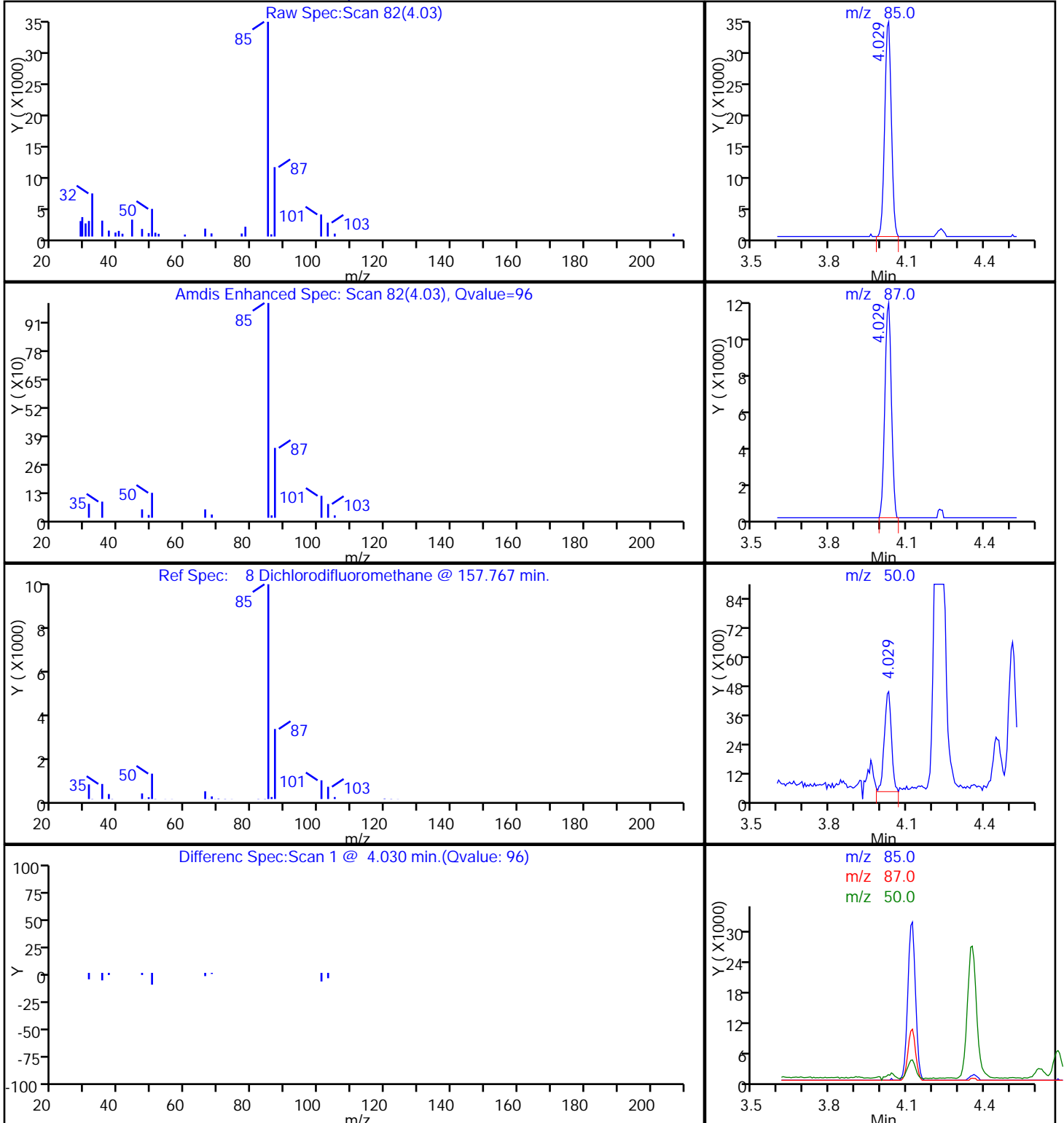
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

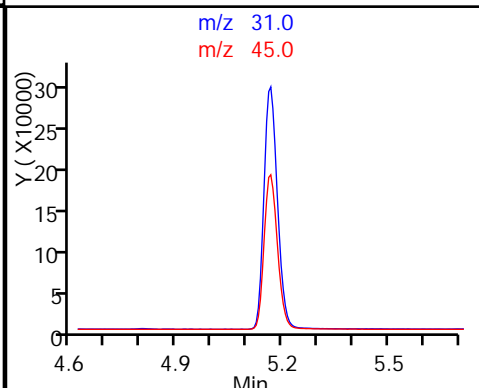
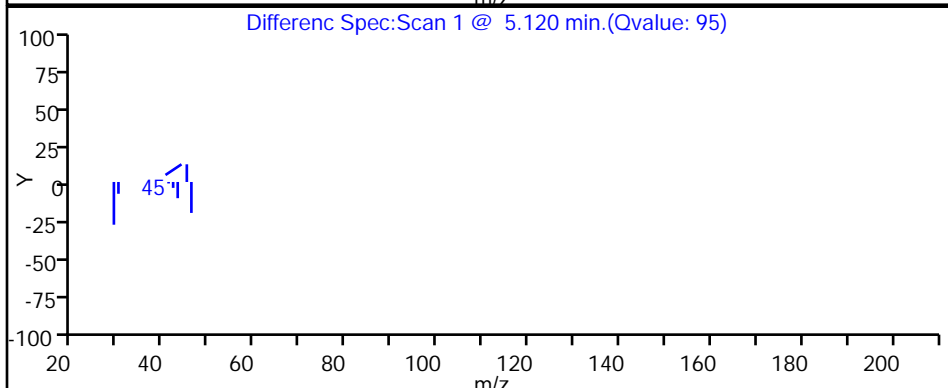
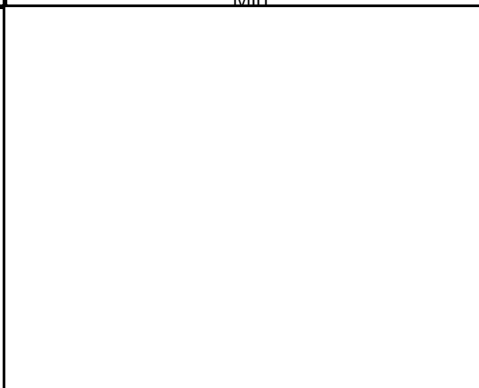
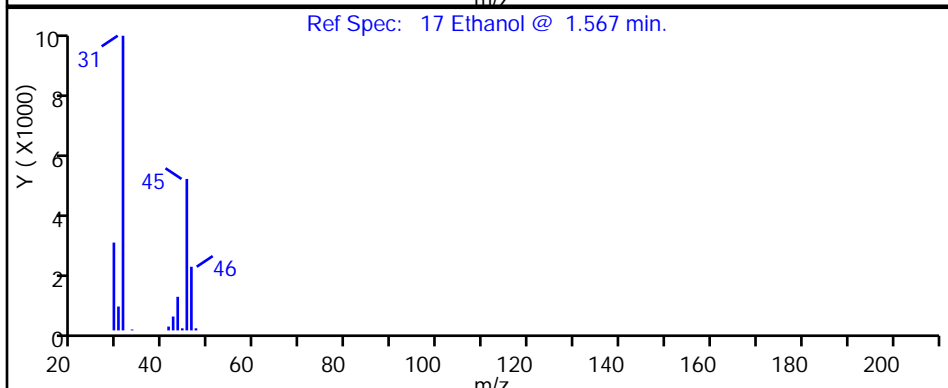
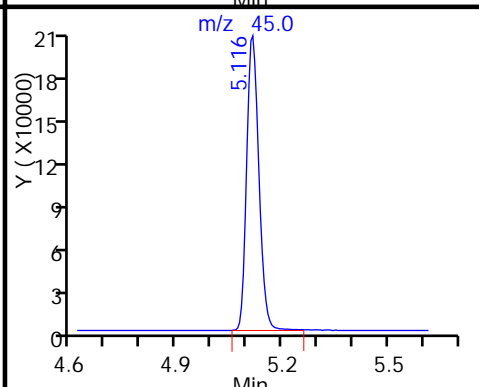
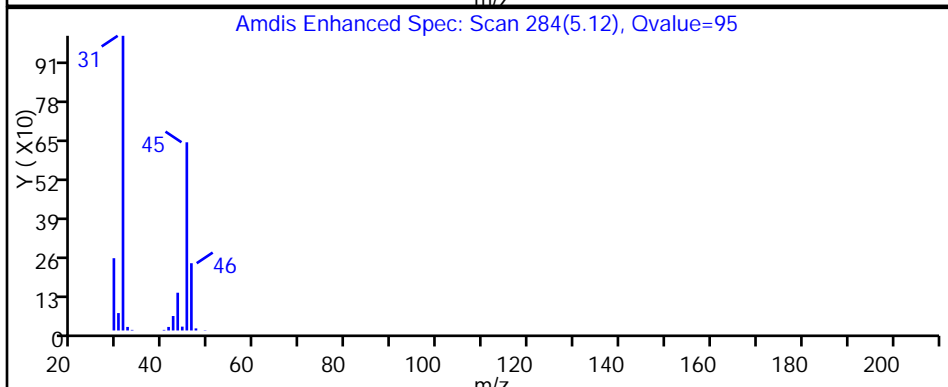
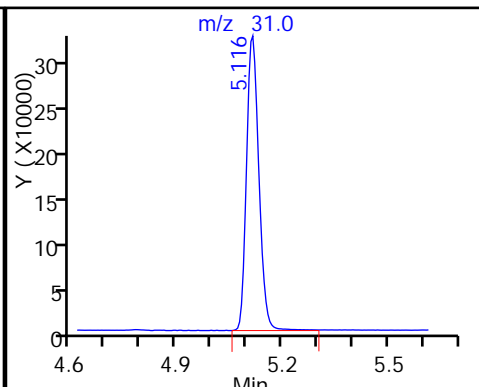
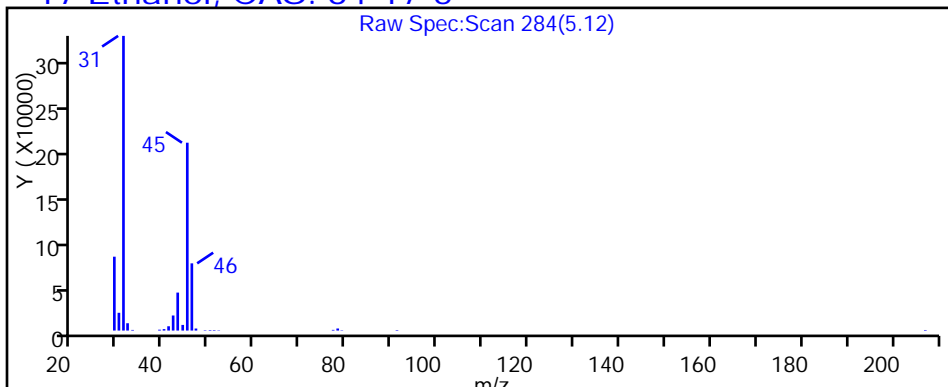
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

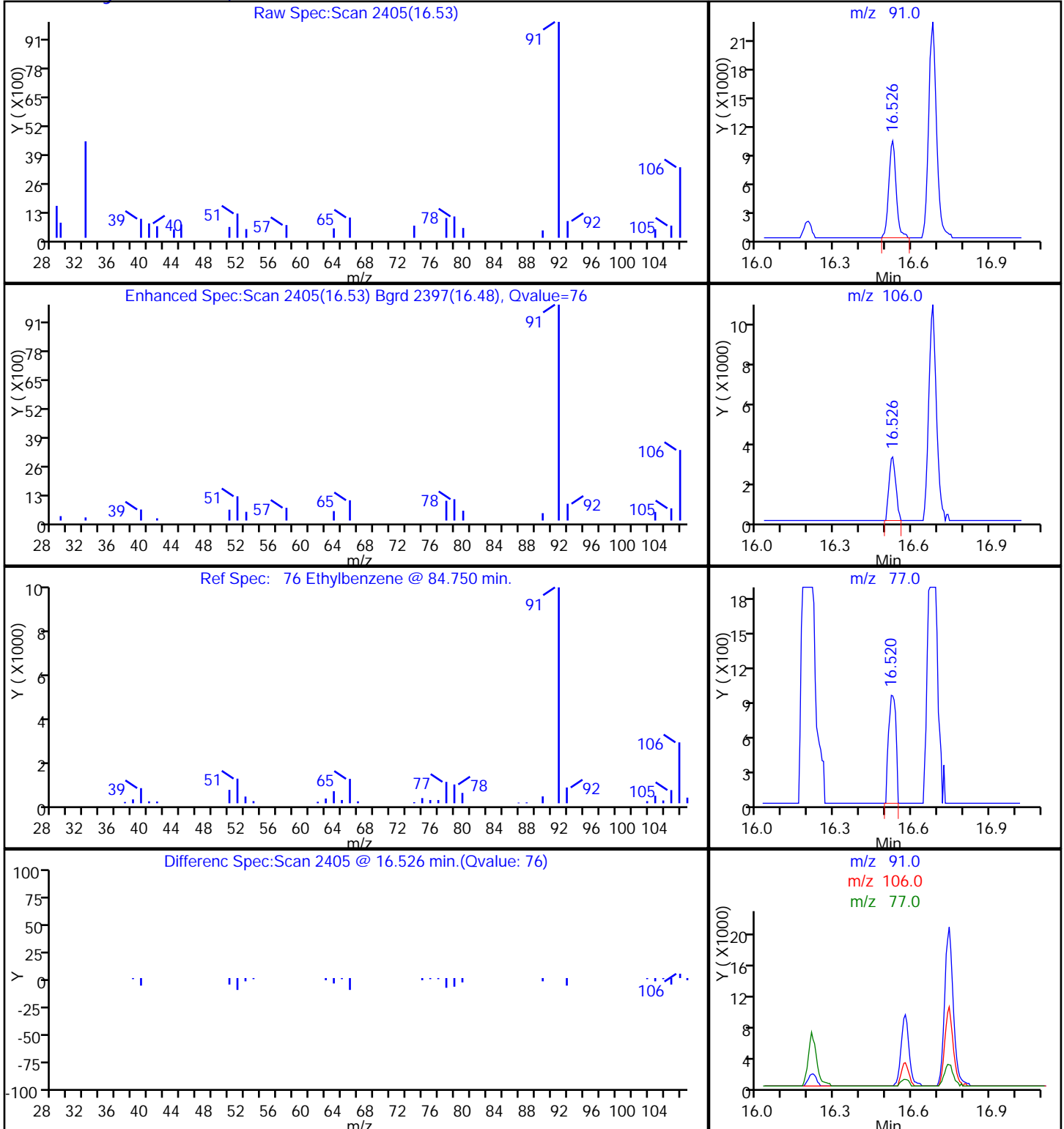
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

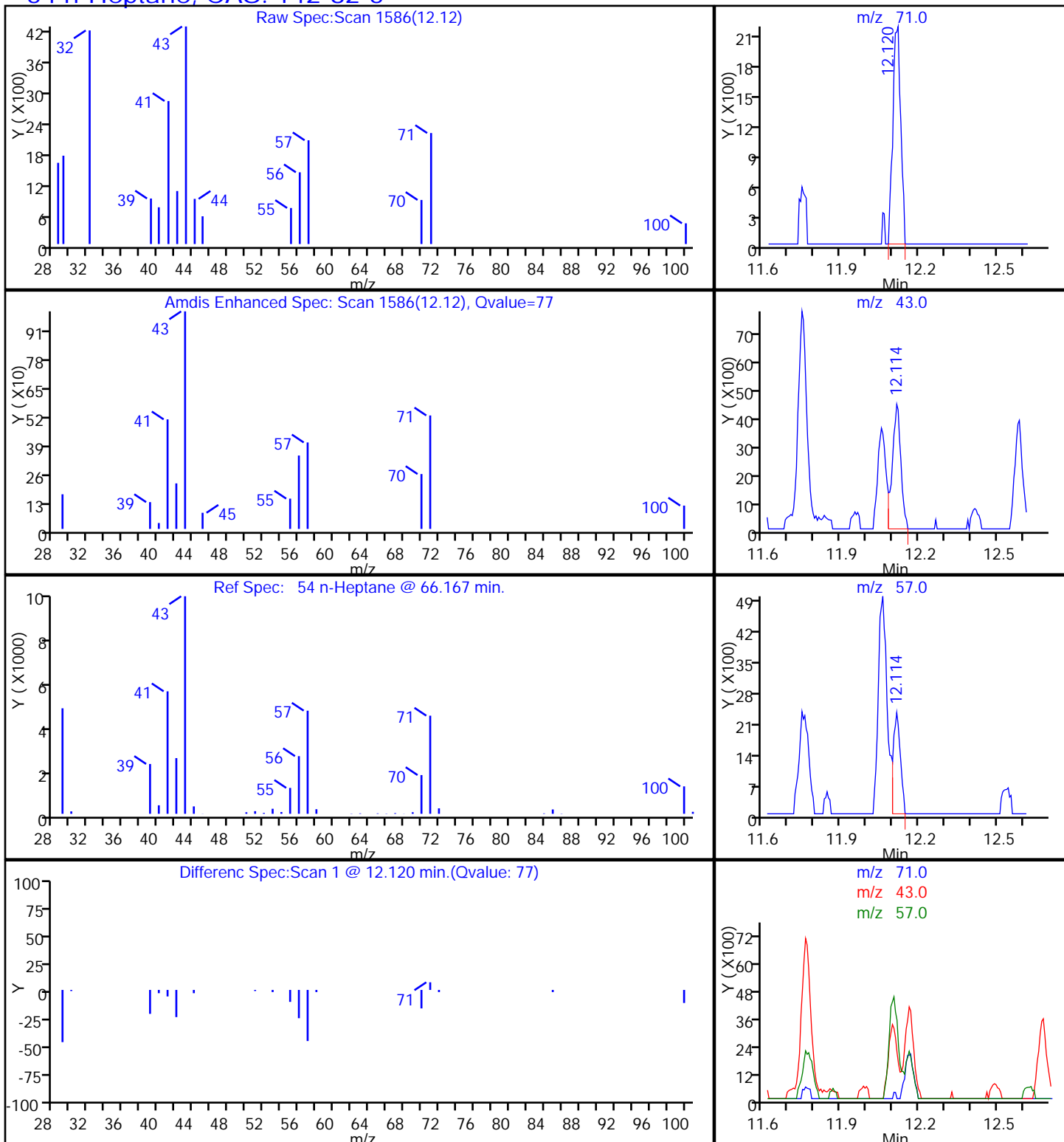
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

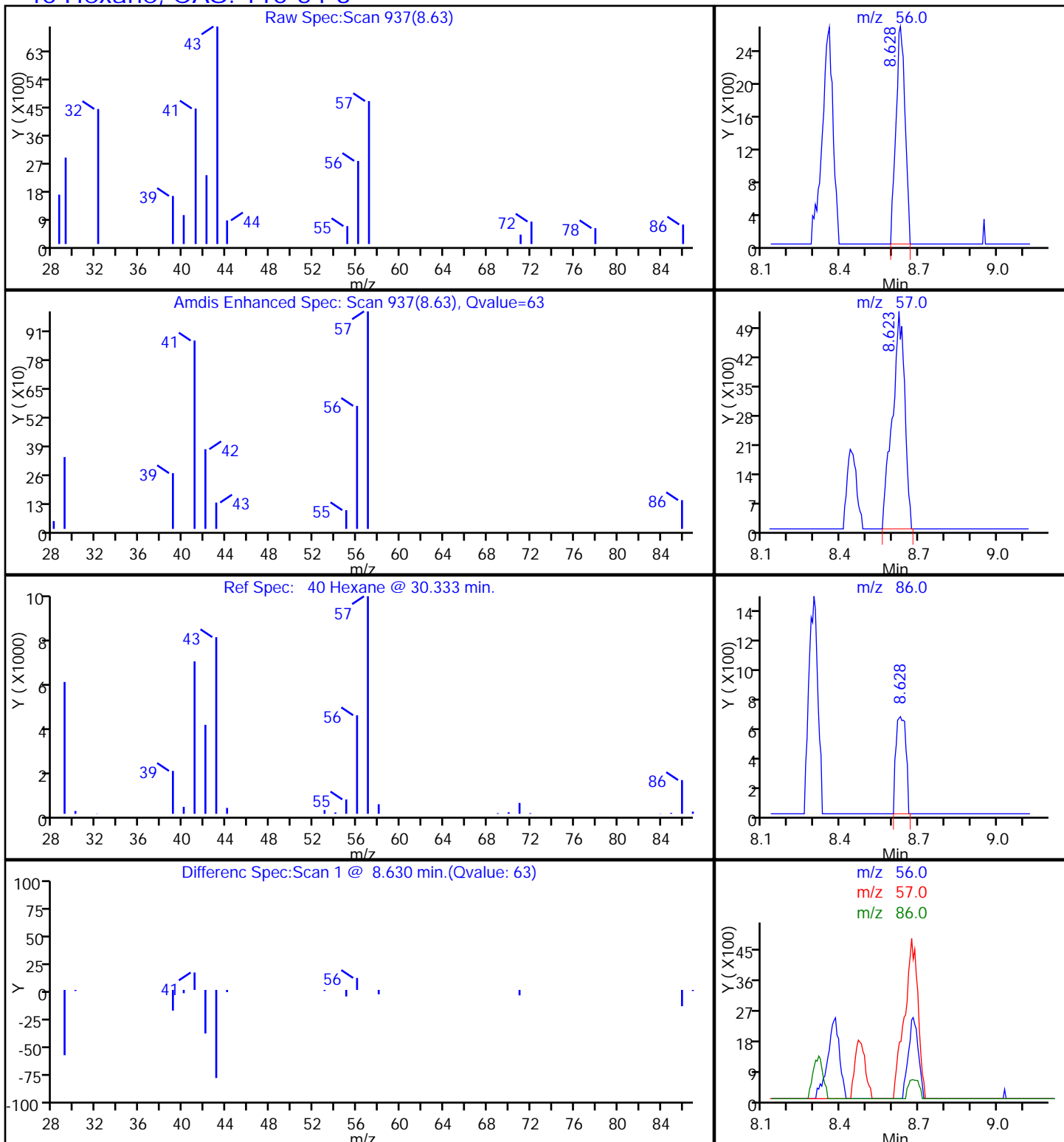
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

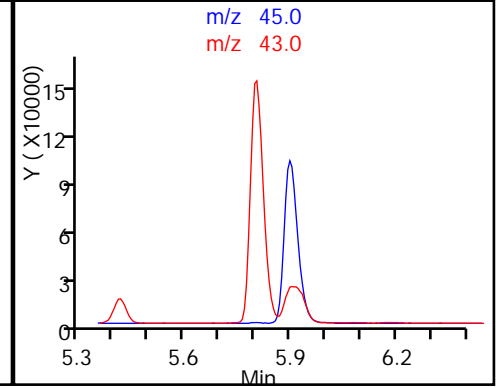
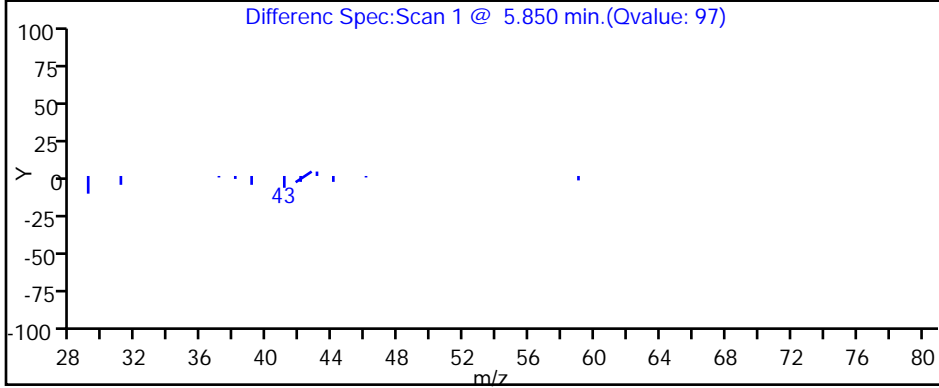
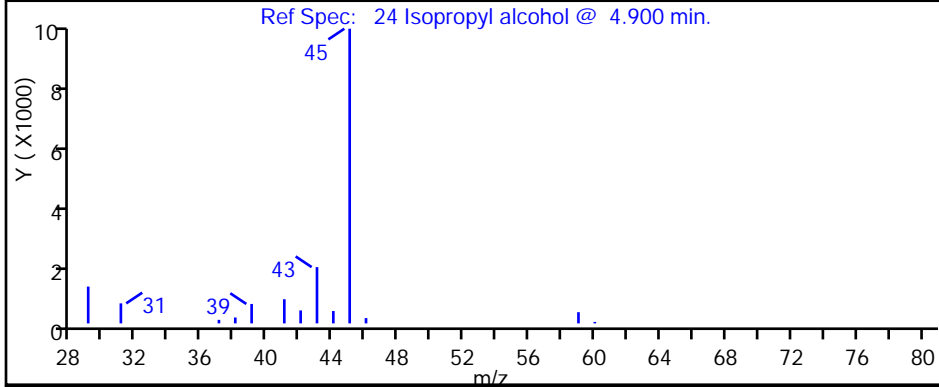
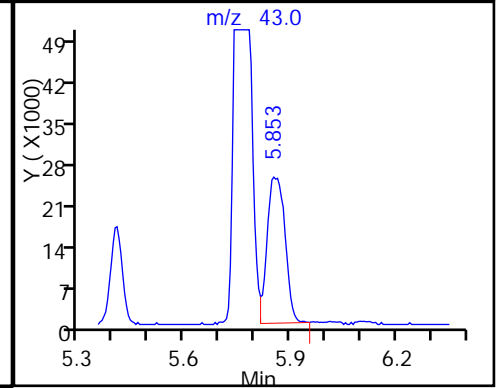
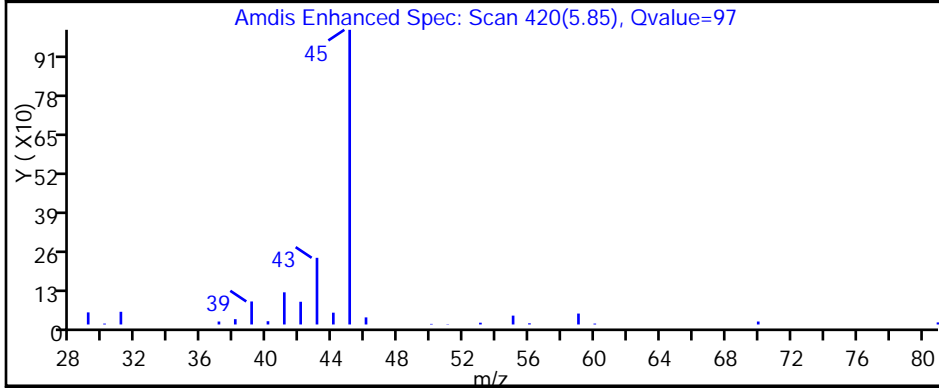
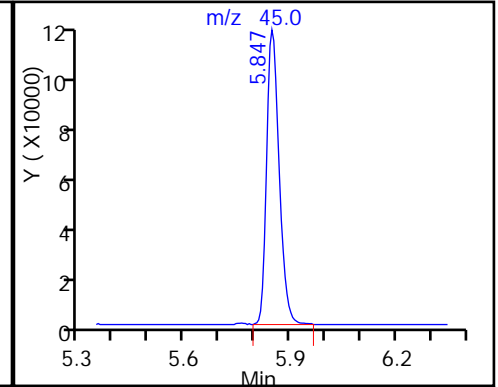
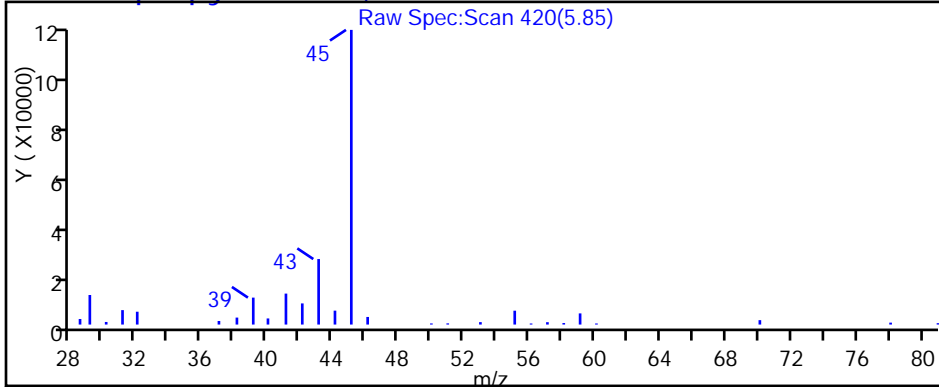
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

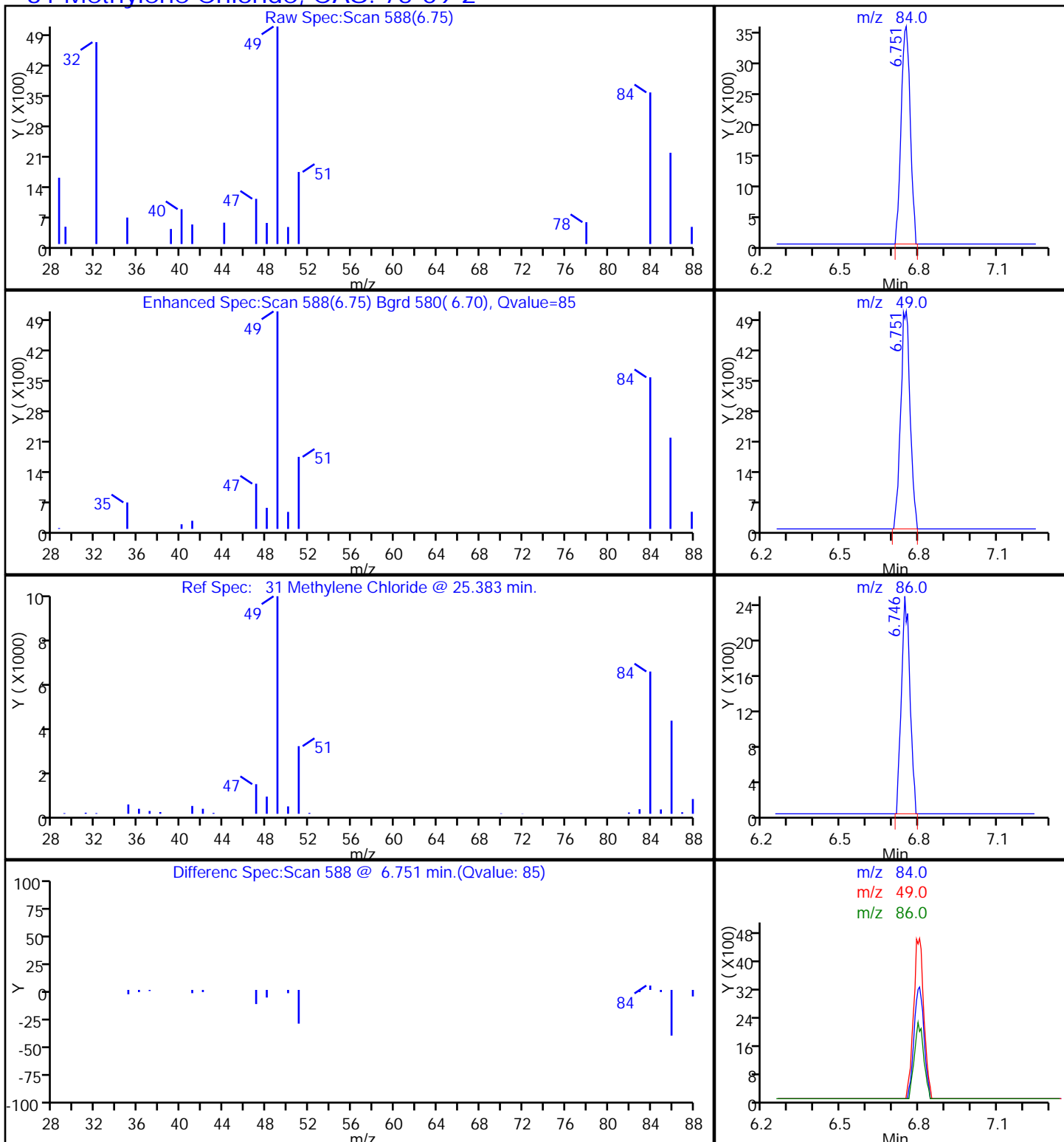
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

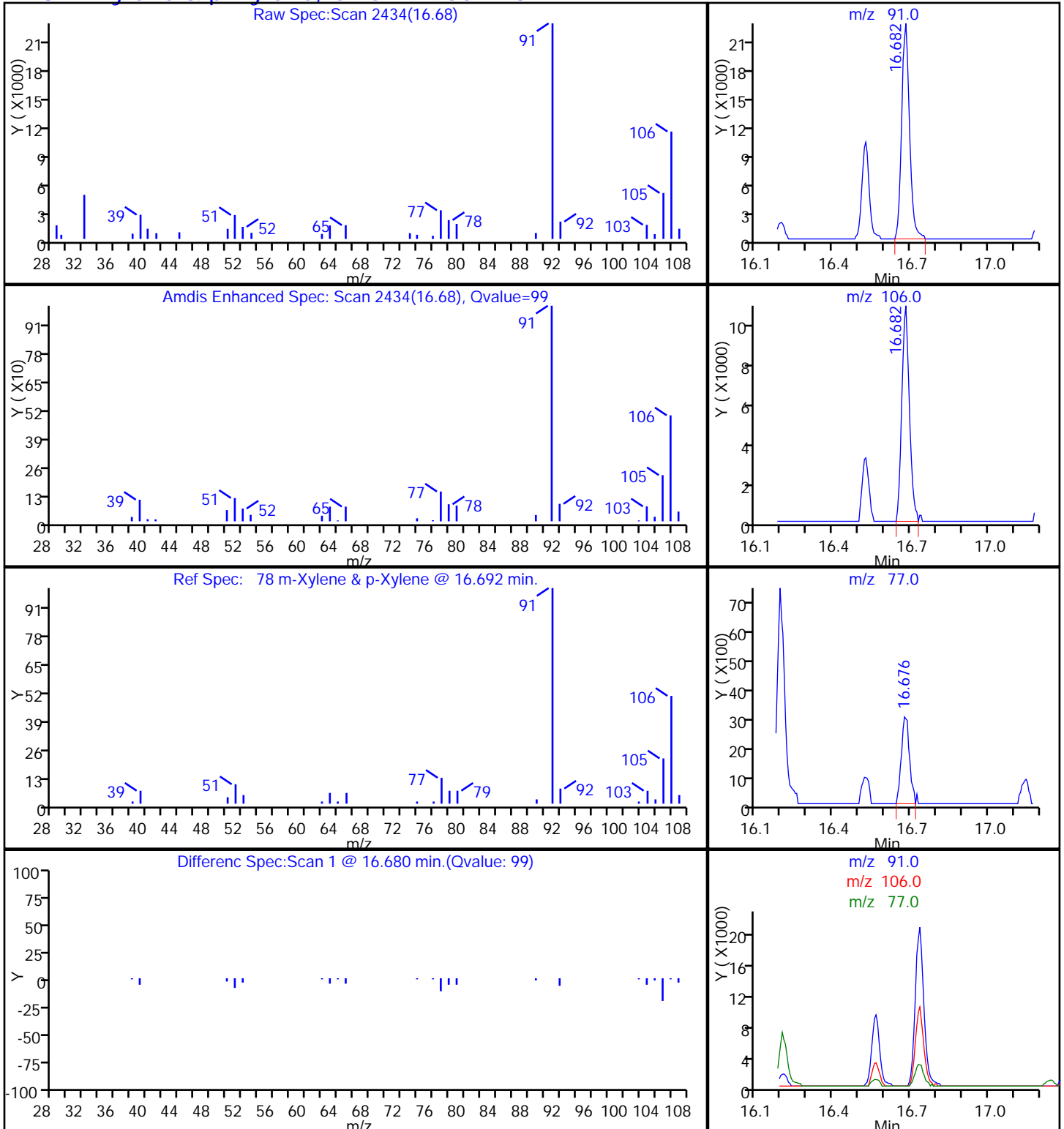
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

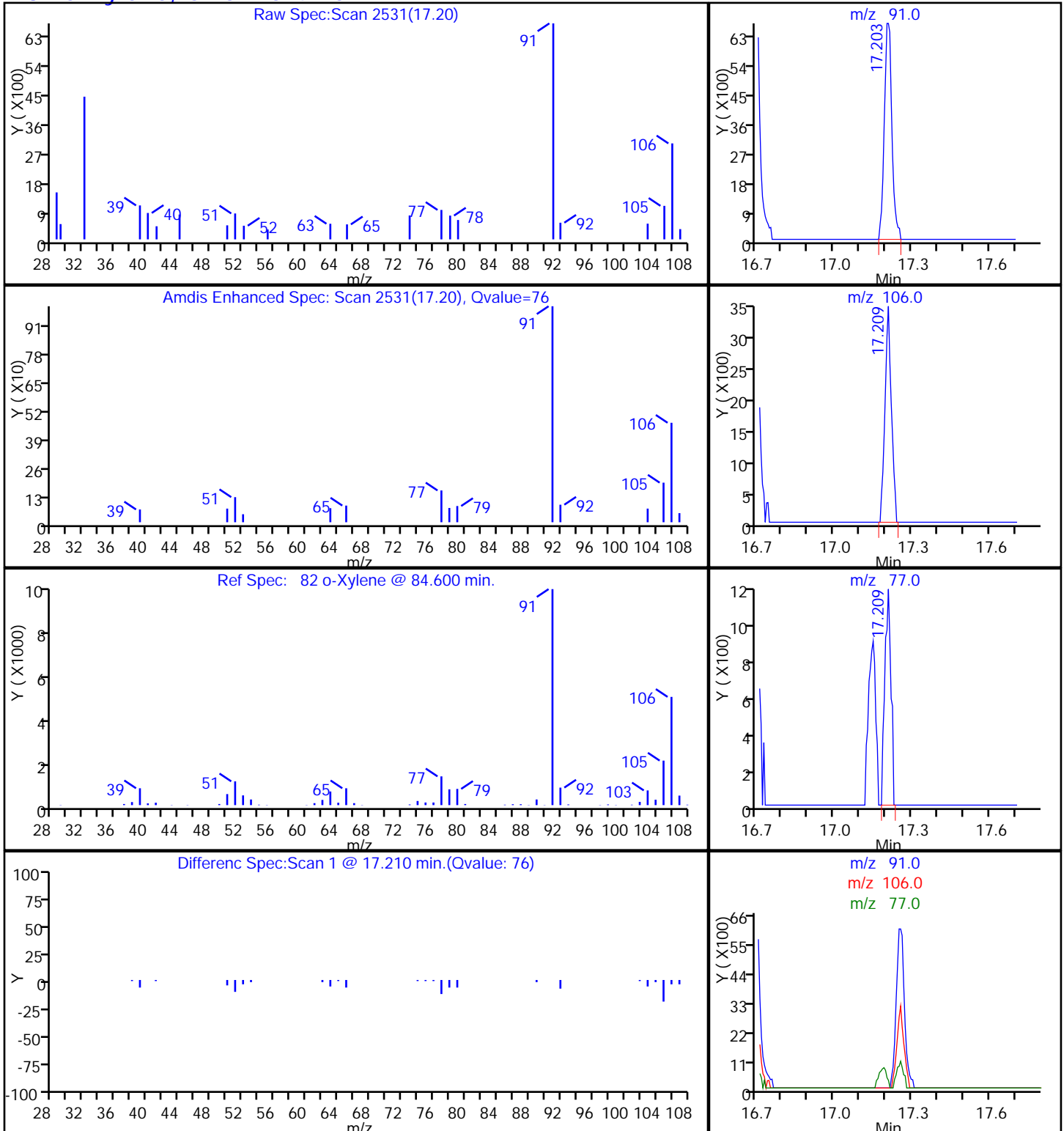
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

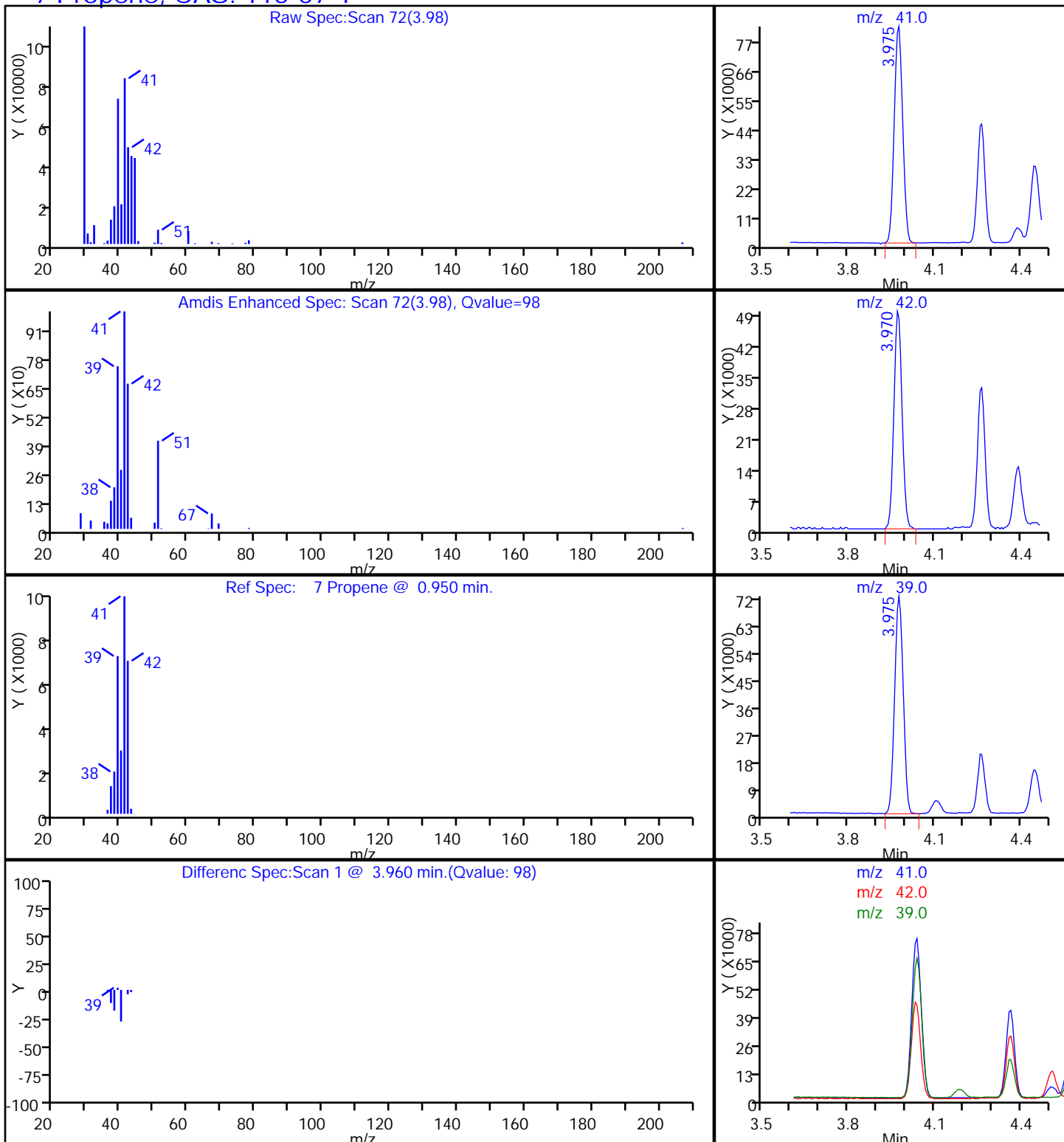
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

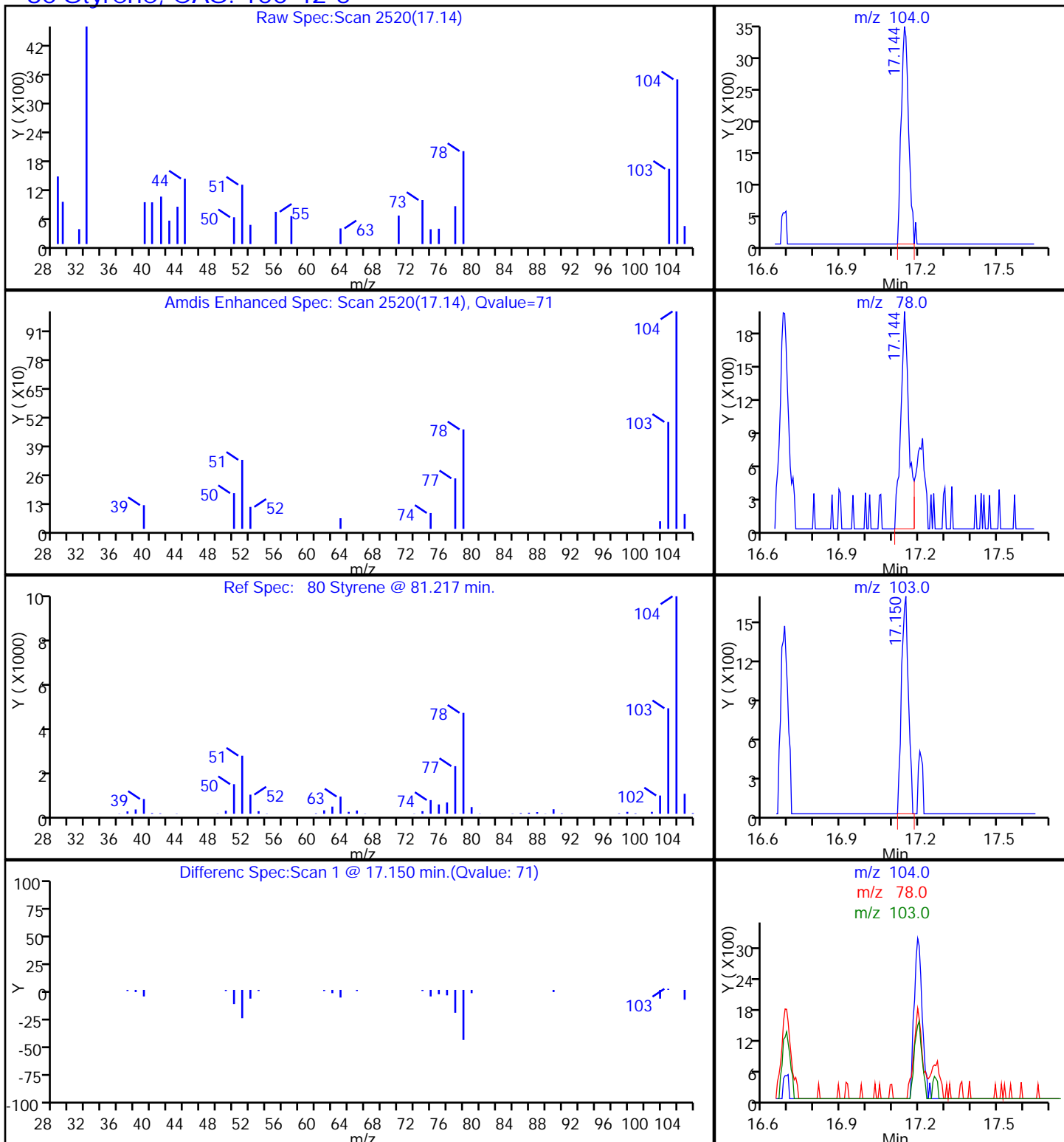
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

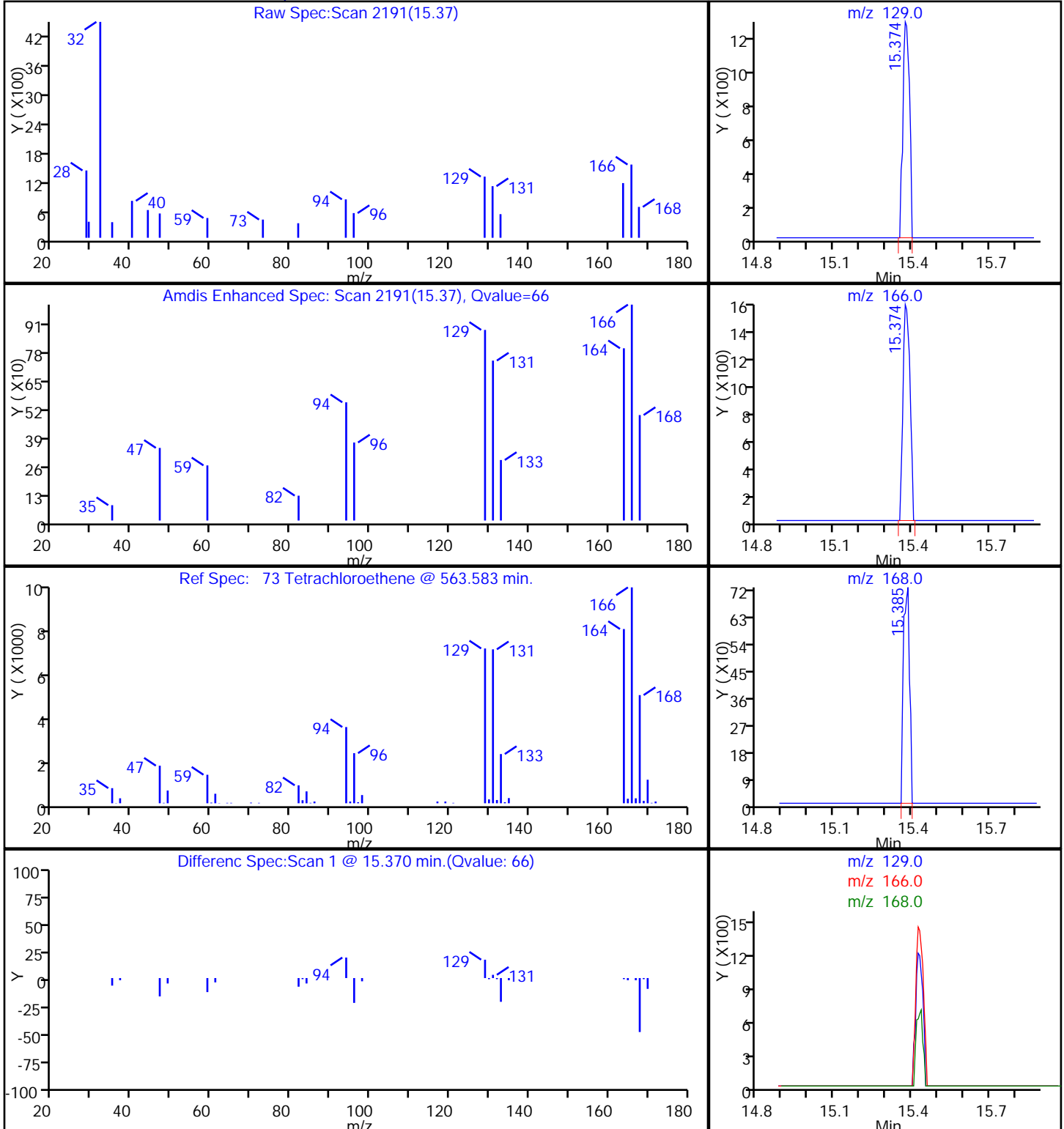
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

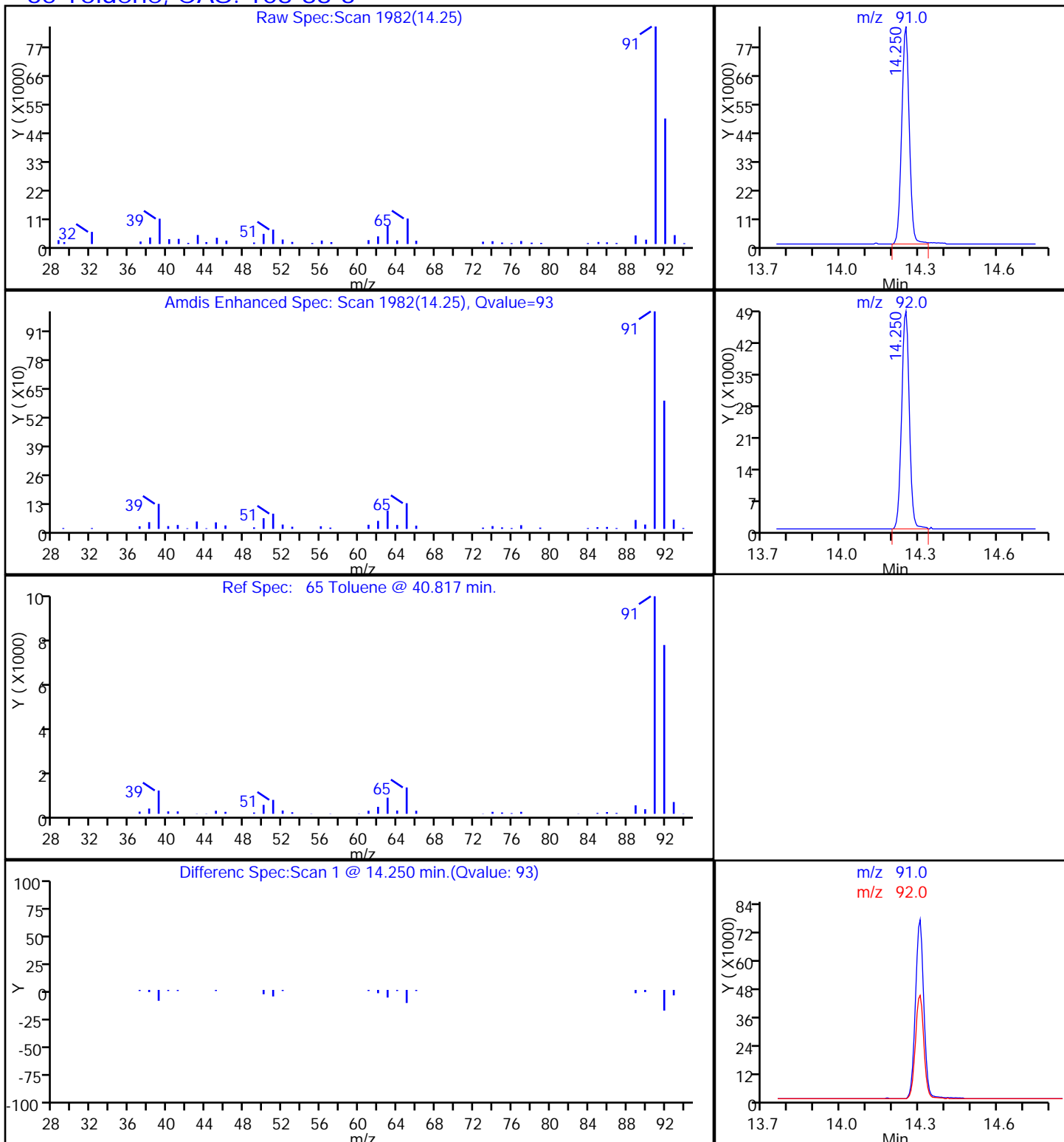
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P110.D

Injection Date: 20-Mar-2014 01:49:30

Instrument ID: MJ

Lims ID: 140-1063-A-25

Lab Sample ID: 140-1063-25

Client ID: IA2-E17

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

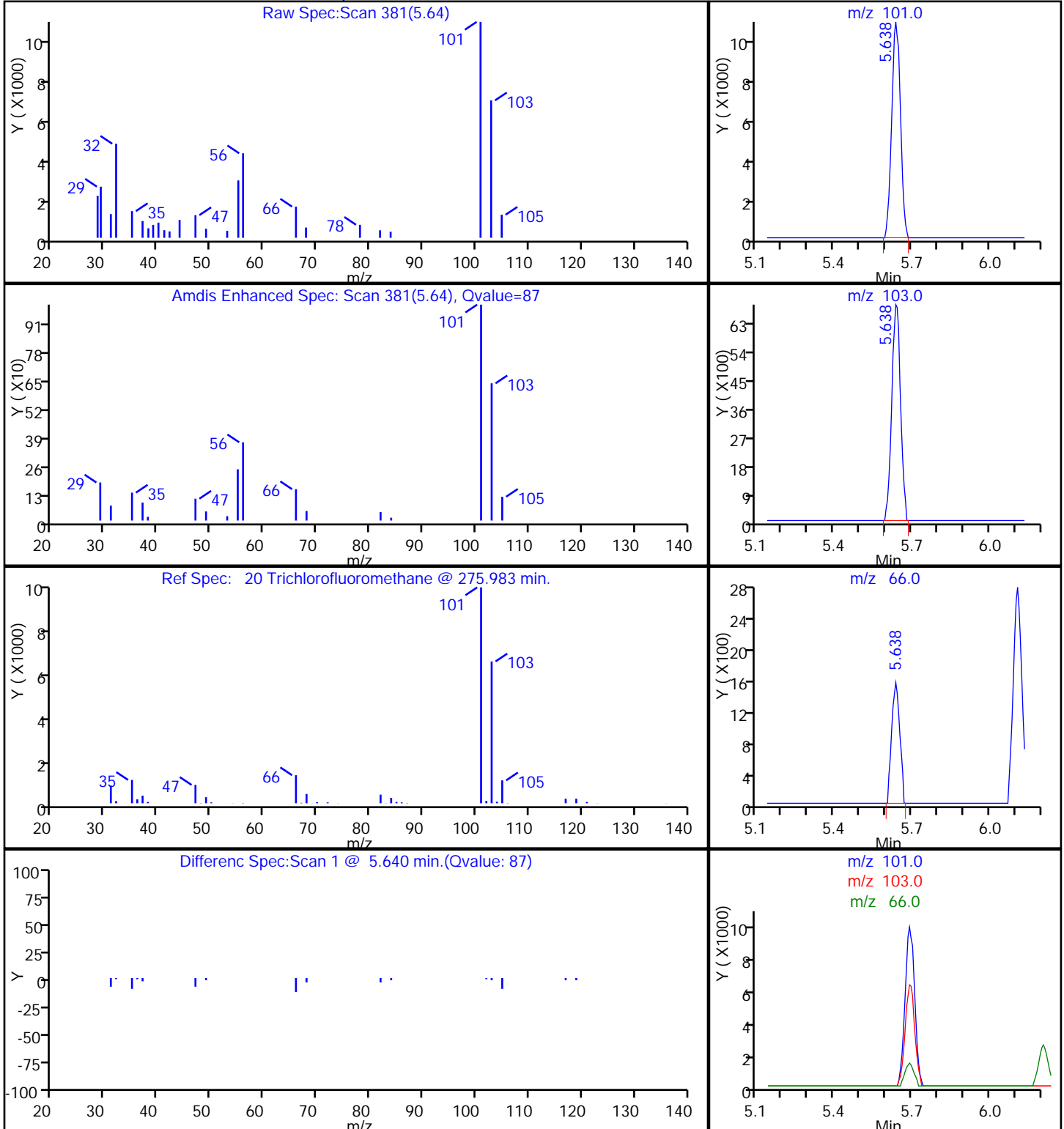
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Chlorodifluoromethane	0.6821 0.5766	0.6719 0.4949	0.5826 0.4537	0.5541 0.4317	0.6013	Ave	0.5610				16.0		30.0				
Propene	++++ 0.9670	++++ 0.8486	1.2249 0.7943	1.4830 0.7266	0.9992	Ave	1.0062				26.0		30.0				
Dichlorodifluoromethane	5.1130 4.6976	5.0436 4.1218	4.9097 3.5498	4.7093 2.8988	4.7808	Ave	4.4249				17.0		30.0				
Chloromethane	++++ 0.3724	++++ 0.3188	0.4225 0.3042	0.3695 0.2900	0.3950	Ave	0.3532				14.0		30.0				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.8536 3.0036	2.6456 2.5932	3.1194 2.3244	2.8509 1.8346	2.7749	Ave	2.6667				15.0		30.0				
Acetaldehyde	++++ 0.3655	++++ 0.3980	++++ 0.3099	++++ 0.2670	0.3341	Ave	0.3349				15.0		40.0				
Vinyl chloride	1.4673 1.4635	1.5391 1.2476	1.4531 1.1639	1.3422 1.0915	1.5085	Ave	1.3641				12.0		30.0				
Butane	2.1406 1.9249	2.2741 1.6657	2.1916 1.5618	2.0028 1.4492	2.0023	Ave	1.9126				15.0		30.0				
1,3-Butadiene	1.1372 0.9835	1.0623 0.8474	1.0056 0.8034	0.8898 0.7712	0.9849	Ave	0.9428				13.0		30.0				
Bromomethane	1.7110 1.5241	1.7433 1.3041	1.5654 1.2149	1.4384 1.1458	1.6071	Ave	1.4727				14.0		30.0				
Chloroethane	0.7812 0.7150	0.7387 0.6401	0.7638 0.5950	0.6844 0.5780	0.7330	Ave	0.6922				11.0		30.0				
Ethanol	++++ 0.4199	++++ 0.3943	0.4973 0.3019	0.5025 0.2765	0.4081	Ave	0.4001				22.0		40.0				
Vinyl bromide	1.4552 1.4098	1.4220 1.2264	1.4865 1.1304	1.3000 1.0687	1.4793	Ave	1.3309				12.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylbutane	1.6243 1.4028	1.6042 1.2332	1.6092 1.1473	1.4188 1.1000	1.4673	Ave	1.4008				14.0		30.0				
Trichlorofluoromethane	4.8554 4.6461	5.1365 3.9884	5.1152 3.4856	4.6112 3.0634	5.0431	Ave	4.4383				17.0		30.0				
Acrolein	++++ 0.3538	++++ 0.4121	0.6198 0.3713	0.5315 0.3562	0.3166	Ave	0.4230				26.0		30.0				
Acetonitrile	++++ 0.3530	++++ 0.3927	++++ 0.3573	0.5418 0.3400	0.2987	Ave	0.3806				22.0		30.0				
Acetone	++++ 0.6686	++++ 0.7741	++++ 0.5411	++++ 0.3984	0.6470	Ave	0.6059				24.0		30.0				
Pentane	0.2882 0.2634	0.3049 0.2393	0.2877 0.2225	0.2619 0.2160	0.2795	Ave	0.2626				12.0		30.0				
Isopropyl alcohol	++++ 1.5944	++++ 1.5028	++++ 1.2875	2.2689 1.1693	1.5361	Ave	1.5598				25.0		30.0				
Ethyl ether	1.1707 0.8951	0.9437 1.0898	1.1967 0.9947	1.0938 0.9570	0.8208	Ave	1.0180				13.0		30.0				
1,1-Dichloroethene	1.2479 1.2442	1.2919 1.1189	1.2911 1.0462	1.1554 1.0111	1.3012	Ave	1.1898				9.3		30.0				
tert-Butyl alcohol	++++ 2.4369	++++ 1.9318	2.4037 2.0108	2.5662 1.8277	2.2766	Ave	2.2077				13.0		30.0				
Acrylonitrile	0.8391 0.6299	0.6536 0.7319	0.8019 0.6844	0.7550 0.6642	0.5474	Ave	0.7008				13.0		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9917 2.8004	3.0170 2.6102	3.0294 2.3683	2.7626 2.2096	2.9410	Ave	2.7478				11.0		30.0				
Methylene Chloride	++++ 1.1529	++++ 1.0626	1.4348 0.9811	1.2056 0.9464	1.2180	Ave	1.1430				15.0		30.0				
3-Chloropropene	++++ 1.3704	1.5674 1.3207	1.5235 1.1815	1.3608 1.1176	1.3541	Ave	1.3495				11.0		30.0				
Carbon disulfide	4.4706 4.3670	4.7745 3.7690	4.4828 3.4334	4.2028 3.1032	4.6578	Ave	4.1401				14.0		30.0				
trans-1,2-Dichloroethene	1.5135 1.4846	1.6643 1.3837	1.5732 1.2909	1.4172 1.2311	1.5626	Ave	1.4579				9.6		30.0				
2-Methylpentane	2.9866 2.6238	2.9687 2.4646	2.8800 2.2823	2.6197 2.1400	2.7421	Ave	2.6342				11.0		40.0				
Methyl tert-butyl ether	3.9452 3.3579	3.6807 3.8798	4.1806 3.4238	3.9274 3.1598	3.1185	Ave	3.6304				10.0		30.0				
1,1-Dichloroethane	2.7429 2.4340	2.7097 2.3976	2.7037 2.1829	2.5251 2.0508	2.4605	Ave	2.4675				9.7		30.0				
Vinyl acetate	2.6729 2.1395	2.1928 2.7010	2.7825 2.4854	2.6528 2.3489	1.9235	Ave	2.4333				12.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Butanone (MEK)	++++	++++	0.8601	1.1107	0.5039	Ave		0.6547			37.0	*	30.0				
	0.5268	0.5924	0.5062	0.4830													
Hexane	++++	1.2793	1.1645	1.0729	1.0983	Ave		1.0640			11.0		30.0				
	1.0521	1.0059	0.9370	0.9019													
C6 Range	++++	++++	3.3356	3.4064	2.6621	Ave		2.7373			17.0		30.0				
	2.7654	2.5187	2.2767	2.1965													
cis-1,2-Dichloroethene	1.3889	1.4224	1.4697	1.3680	1.4258	Ave		1.3612			6.2		30.0				
	1.3728	1.3438	1.2497	1.2095													
Ethyl acetate	2.5552	2.1948	2.3675	2.2288	1.7988	Ave		2.1300			12.0		30.0				
	1.9215	2.2295	1.9811	1.8925													
Chloroform	3.7867	3.8316	3.8044	3.5448	3.5677	Ave		3.4271			12.0		30.0				
	3.3848	3.2852	2.9281	2.7108													
Tetrahydrofuran	1.1554	1.0993	1.1611	1.0713	0.8636	Ave		1.0261			11.0		30.0				
	0.9205	1.0675	0.9604	0.9360													
1,1,1-Trichloroethane	4.3435	4.3129	4.2088	4.0462	4.0377	Ave		3.8877			11.0		30.0				
	3.8810	3.7622	3.3408	3.0559													
1,2-Dichloroethane	0.5109	0.5474	0.5637	0.5166	0.4621	Ave		0.4903			10.0		30.0				
	0.4936	0.4768	0.4305	0.4107													
1-Butanol	++++	++++	0.0709	0.0941	0.0679	Ave		0.0746			15.0		30.0				
	0.0857	0.0639	0.0712	0.0682													
Cyclohexane	0.1482	0.1791	0.1650	0.1462	0.1558	Ave		0.1509			11.0		30.0				
	0.1621	0.1412	0.1323	0.1285													
Benzene	0.9673	0.9062	0.9156	0.8225	0.7228	Ave		0.8050			13.0		30.0				
	0.7817	0.7711	0.7033	0.6545													
Carbon tetrachloride	0.7885	0.8824	0.8363	0.7170	0.8449	Ave		0.7733			11.0		30.0				
	0.8484	0.7486	0.6619	0.6317													
2,3-Dimethylpentane	0.1905	0.2161	0.1974	0.1859	0.1912	Ave		0.1874			8.5		40.0				
	0.1954	0.1776	0.1664	0.1660													
Thiophene	0.5338	0.5459	0.5523	0.5089	0.4677	Ave		0.5002			7.9		40.0				
	0.5013	0.4962	0.4549	0.4410													
2,2,4-Trimethylpentane	1.3499	1.4560	1.3618	1.2643	1.2673	Ave		1.2427			12.0		30.0				
	1.2995	1.1648	1.0472	0.9736													
Heptane	++++	++++	0.3458	0.3110	0.3098	Ave		0.3047			8.7		30.0				
	0.3231	0.2984	0.2744	0.2705													
1,2-Dichloropropane	0.2656	0.2845	0.2902	0.2690	0.2283	Ave		0.2586			8.2		30.0				
	0.2506	0.2604	0.2407	0.2379													
Trichloroethene	0.4144	0.4415	0.4237	0.3955	0.4018	Ave		0.3975			7.8		30.0				
	0.4153	0.3821	0.3548	0.3483													
Dibromomethane	0.4031	0.4211	0.4155	0.3885	0.3643	Ave		0.3799			8.5		30.0				
	0.3887	0.3711	0.3395	0.3270													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Bromodichloromethane	0.7561 0.7969	0.8436 0.7612	0.8216 0.6779	0.7863 0.6266	0.7435	Ave	0.7571				9.1		30.0				
1,4-Dioxane	0.1128 0.1269	0.1160 0.1115	0.1023 0.0953	0.0954 0.0941	0.1072	Ave	0.1068				10.0		30.0				
Methyl methacrylate	0.3526 0.2914	0.3296 0.3167	0.3248 0.2875	0.2926 0.2830	0.2513	Ave	0.3033				10.0		30.0				
Methylcyclohexane	0.6209 0.5877	0.6805 0.5313	0.6157 0.4880	0.5548 0.4701	0.5756	Ave	0.5694				12.0		40.0				
4-Methyl-2-pentanone (MIBK)	++++ 0.4431	++++ 0.4749	0.7569 0.4188	0.4838 0.3934	0.3476	Ave	0.4741				28.0		30.0				
cis-1,3-Dichloropropene	0.4438 0.4697	0.4597 0.4813	0.4973 0.4418	0.4764 0.4247	0.4127	Ave	0.4564				6.1		30.0				
trans-1,3-Dichloropropene	0.5190 0.5479	0.5232 0.5884	0.5865 0.5495	0.5638 0.5211	0.4620	Ave	0.5402				7.3		30.0				
Toluene Range	2.3839 2.3173	2.5302 2.4897	2.7410 2.2587	2.5963 2.1257	2.0489	Ave	2.3880				9.4		30.0				
Toluene	1.1776 1.0368	1.1353 1.0873	1.2532 0.9788	1.1671 0.8864	0.9218	Ave	1.0716				12.0		30.0				
1,1,2-Trichloroethane	0.3341 0.3056	0.3316 0.3191	0.3539 0.2993	0.3314 0.2895	0.2746	Ave	0.3155				8.0		30.0				
2-Methylthiophene	0.9576 0.9202	0.9808 0.9657	1.0441 0.8696	1.0034 0.8057	0.8295	Ave	0.9307				8.7		40.0				
3-Methylthiophene	0.9585 0.9335	0.9763 0.9705	1.0652 0.8772	1.0164 0.8084	0.8312	Ave	0.9375				9.0		40.0				
2-Hexanone	++++ 0.2571	++++ 0.2807	0.2662 0.2523	0.2713 0.2432	0.1996	Ave	0.2529				11.0		30.0				
Octane	++++ 0.3911	++++ 0.3907	0.4143 0.3642	0.3984 0.3488	0.3674	Ave	0.3821				6.0		30.0				
C8 Range	++++ 2.9370	++++ 2.9724	3.2150 2.6492	2.9826 2.4984	2.7525	Ave	2.8581				8.4		30.0				
Dibromochloromethane	0.7022 0.7520	0.6964 0.7677	0.7392 0.7009	0.7380 0.6486	0.6847	Ave	0.7144				5.3		30.0				
1,2-Dibromoethane (EDB)	0.5315 0.5729	0.5706 0.5960	0.6141 0.5503	0.6128 0.5229	0.4966	Ave	0.5631				7.3		30.0				
Tetrachloroethene	0.4884 0.4673	0.5239 0.4370	0.4968 0.4005	0.4626 0.3819	0.4492	Ave	0.4564				9.9		30.0				
Chlorobenzene	0.8970 0.8355	0.9171 0.8726	0.9750 0.7891	0.9168 0.7197	0.7676	Ave	0.8545				9.7		30.0				
2,3-Dimethylheptane	++++ 0.7925	1.0706 0.7985	0.9092 0.7175	0.8745 0.6583	0.7452	Ave	0.8208				16.0		40.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Ethylbenzene	1.5248 1.3234	1.4509 1.4372	1.6137 1.2425	1.5583 1.0644	1.1480	Ave		1.3737			14.0		30.0				
2-Ethylthiophene	1.1687 1.0754	1.1500 1.1689	1.2687 1.0233	1.2227 0.9024	0.9285	Ave		1.1010			12.0		40.0				
m-Xylene & p-Xylene	1.2020 1.0515	1.1533 1.1215	1.3378 0.9323	1.2534 0.7511	0.9185	Ave		1.0801			17.0		30.0				
Nonane	0.6890 0.5731	0.6777 0.6131	0.6454 0.5563	0.6260 0.5124	0.5015	Ave		0.5994			11.0		30.0				
Bromoform	0.5396 0.7008	0.5559 0.7598	0.6389 0.6910	0.6623 0.6345	0.5966	Ave		0.6422			11.0		30.0				
Styrene	0.7150 0.7420	0.6927 0.8622	0.8019 0.7863	0.8140 0.7043	0.6092	Ave		0.7475			10.0		30.0				
o-Xylene	1.2903 1.1086	1.2516 1.2193	1.3769 1.0654	1.3065 0.9242	0.9663	Ave		1.1677			14.0		30.0				
1,1,2,2-Tetrachloroethane	0.6885 0.6787	0.6830 0.7478	0.7643 0.6722	0.7484 0.6210	0.5797	Ave		0.6871			8.9		30.0				
1,2,3-Trichloropropane	0.2486 0.2410	0.2561 0.2683	0.2813 0.2452	0.2719 0.2337	0.2074	Ave		0.2504			9.0		30.0				
Isopropylbenzene	1.8073 1.4731	1.6226 1.6139	1.8355 1.3771	1.7323 1.1554	1.2651	Ave		1.5425			16.0		30.0				
Propylbenzene	0.4238 0.3869	0.3757 0.4477	0.4414 0.4126	0.4302 0.3899	0.3198	Ave		0.4031			9.9		30.0				
2-Chlorotoluene	0.4028 0.3708	0.3855 0.4103	0.4198 0.3781	0.4141 0.3584	0.3183	Ave		0.3842			8.4		30.0				
4-Ethyltoluene	1.6734 1.4224	1.5615 1.5489	1.6912 1.3602	1.6695 1.1365	1.2333	Ave		1.4774			14.0		30.0				
1,3,5-Trimethylbenzene	0.6743 0.6536	0.6811 0.7308	0.7340 0.6696	0.7293 0.6045	0.5476	Ave		0.6694			9.3		30.0				
Alpha Methyl Styrene	0.4990 0.5666	0.4774 0.6710	0.5488 0.6199	0.5857 0.5686	0.4365	Ave		0.5526			13.0		30.0				
Decane	+++++ 0.6083	+++++ 0.7285	0.7060 0.6464	0.7139 0.5865	0.4477	Ave		0.6339			16.0		30.0				
tert-Butylbenzene	1.5114 1.3196	1.4224 1.4242	1.5681 1.2143	1.5122 1.0270	1.1351	Ave		1.3483			14.0		30.0				
1,2,4-Trimethylbenzene	1.3258 1.2340	1.2797 1.3159	1.4087 1.1220	1.3897 0.9318	1.0393	Ave		1.2274			13.0		30.0				
sec-Butylbenzene	1.8605 1.6820	1.7185 1.7873	1.9173 1.4703	1.9038 1.1654	1.4017	Ave		1.6563			16.0		30.0				
1,3-Dichlorobenzene	0.8297 0.7860	0.8174 0.8753	0.8898 0.7819	0.8636 0.6928	0.6470	Ave		0.7982			10.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Benzyl chloride	0.9604 1.0974	0.9538 1.2226	1.0256 1.0535	1.0614 0.8837	0.8272	Ave	1.0095				12.0		30.0				
1,4-Dichlorobenzene	0.8104 0.7727	0.8151 0.8668	0.8620 0.7767	0.8355 0.6930	0.6345	Ave	0.7852				9.9		30.0				
4-Isopropyltoluene	1.4402 1.4667	1.4279 1.5593	1.5904 1.2982	1.5936 1.0726	1.1425	Ave	1.3990				14.0		30.0				
1,2,3-Trimethylbenzene	1.0984 1.0649	1.0320 1.1355	1.1895 0.9651	1.1814 0.8400	0.8682	Ave	1.0417				12.0		40.0				
Butylcyclohexane	1.0840 0.9416	1.0338 0.9986	1.1098 0.8629	1.0867 0.7525	0.7925	Ave	0.9625				14.0		40.0				
Indane	1.1749 1.0766	1.0944 1.1742	1.2196 0.9991	1.1912 0.8301	0.8970	Ave	1.0730				13.0		40.0				
1,2-Dichlorobenzene	0.7837 0.7505	0.8094 0.8267	0.8639 0.7314	0.8276 0.6414	0.6098	Ave	0.7605				11.0		30.0				
Indene	0.9953 1.0693	0.9836 1.1824	1.0833 1.0262	1.1305 0.8566	0.8436	Ave	1.0190				11.0		40.0				
Butylbenzene	1.2783 1.3023	1.2603 1.4217	1.3762 1.1734	1.4274 0.9286	0.9833	Ave	1.2391				15.0		30.0				
Undecane	0.5386 0.5640	0.6056 0.6961	0.4779 0.6559	0.4920 0.5884	0.4175	Ave	0.5595				16.0		30.0				
1,2-Dimethyl-4-Ethylbenzene	1.1188 1.2651	1.2618 1.4282	1.2669 1.1838	1.3584 0.9756	0.9560	Ave	1.2016				13.0		40.0				
1,2,4,5-Tetramethylbenzene	1.0732 1.3053	1.3169 1.4813	1.1329 1.2130	1.2082 0.9879	0.9854	Ave	1.1893				14.0		40.0				
1,2,3,5-Tetramethylbenzene	0.6921 0.8364	0.8844 0.9604	0.7179 0.8089	0.7590 0.7039	0.6339	Ave	0.7775				13.0		40.0				
1,2,3,4-Tetramethylbenzene	1.0191 1.0799	1.1268 1.2012	0.8962 1.0074	0.9351 0.8540	0.8183	Ave	0.9931				13.0		40.0				
Dodecane	++++ 0.5610	++++ 0.4136	++++ 0.3675	0.3841 0.3562	0.4375	Ave	0.4200				18.0		30.0				
1,2,4-Trichlorobenzene	0.5511 0.5356	0.5934 0.5677	0.4289 0.5295	0.4449 0.5113	0.4067	Ave	0.5077				13.0		30.0				
Naphthalene	++++ 1.0658	++++ 1.0614	0.7302 0.9500	0.7634 0.8747	0.7774	Ave	0.8890				16.0		30.0				
Benzo(b)thiophene	++++ 0.7932	++++ 0.7123	0.5346 0.6623	0.5588 0.6583	0.5821	Ave	0.6431				14.0		40.0				
Hexachlorobutadiene	++++ 0.6387	0.7907 0.7318	0.7676 0.6265	0.7236 0.5484	0.4789	Ave	0.6633				17.0		30.0				
1,2,3-Trichlorobenzene	++++ 0.4777	++++ 0.3981	0.3288 0.3712	0.3415 0.3803	0.3556	Ave	0.3790				13.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylnaphthalene	+++++	+++++	0.0359	0.0333	0.0507	Ave		0.0420			34.0		40.0				
	0.0708	0.0366	0.0329	0.0338													
1-Methylnaphthalene	+++++	+++++	0.0320	0.0304	0.0447	Ave		0.0366			34.0		40.0				
	0.0613	0.0313	0.0281	0.0280													
4-Bromofluorobenzene (Surr)	0.8764	0.8622	0.8853	0.8704	0.8872	Ave		0.8759			2.0		30.0				
	0.9064	0.8831	0.8647	0.8476													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-758/2	EICVA281.D
Level 2	IC 140-758/3	EICVA282.D
Level 3	IC 140-758/4	EICVA283.D
Level 4	IC 140-758/5	EICVA284.D
Level 5	IC 140-758/6	EICVA285.D
Level 6	ICIS 140-758/7	EICVA286.D
Level 7	IC 140-758/8	EICVA287.D
Level 8	IC 140-758/9	EICVA288.D
Level 9	IC 140-758/10	EICVA289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Chlorodifluoromethane	CBM	Ave	1872 68063	3356 128795	5831 268638	13797 513221	37150	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	++++ 114145	++++ 220842	12259 470316	36926 863843	61736	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14033 554522	25193 1072689	49136 2101990	117259 3446389	295379	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	++++ 43956	++++ 82967	4228 180123	9200 344740	24405	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	CBM	Ave	7832 354553	13215 674873	31219 1376417	70985 2181168	171444	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	++++ 215750	++++ 517951	++++ 917653	++++ 1587103	103208	++++ 10.0	++++ 20.0	++++ 40.0	++++ 80.0	5.00
Vinyl chloride	CBM	Ave	4027 172758	7688 324698	14542 689225	33420 1297646	93203	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	5875 227224	11359 433506	21933 924824	49869 1722952	123713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3121 116094	5306 220532	10064 475730	22155 916889	60850	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4696 179909	8708 339385	15666 719380	35816 1362202	99292	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2144 84403	3690 166581	7644 352344	17042 687245	45291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	++++ 247839	++++ 513048	24887 893706	62557 1643730	126078	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	3994 166421	7103 319160	14877 669338	32370 1270623	91400	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	4458 165590	8013 320949	16105 679387	35327 1307787	90656	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Trichlorofluoromethane	CBM	Ave	13326 548443	25657 1037971	51192 2063977	114815 3642045	311586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	++++ 41767	++++ 107255	++++ 219844	13234 423477	19559	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 41667	++++ 102195	++++ 211592	13491 404172	18458	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 78923	++++ 201468	++++ 320431	++++ 473689	39975	++++ 2.00	++++ 4.00	++++ 8.00	++++ 16.0	1.00
Pentane	CBM	Ave	791 31097	1523 62277	2879 131724	6522 256857	17267	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	++++ 188211	++++ 391097	++++ 762400	++++ 1390152	56495 94908	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	3213 105666	4714 283608	11976 589010	27236 1137762	50710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3425 146870	6453 291183	12921 619495	28770 1202116	80397	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	++++ 287661	++++ 502758	24056 1190666	63898 2173003	140660	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2303 74351	3265 190475	8025 405250	18798 789709	33819	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	8211 330564	15070 679310	30318 1402386	68786 2627067	181706	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 136091	++++ 276543	++++ 580965	++++ 1125171	30018 75254	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	++++ 161765	7829 343703	15247 699636	33884 1328767	83663	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12270 515499	23849 980880	44863 2033064	104648 3689458	287781	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4154 175247	8313 360098	15744 764390	35287 1463666	96543	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	8197 309719	14829 641400	28823 1351436	65230 2544288	169418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10828 396378	18385 1009711	41839 2027412	97791 3756750	192678	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7528 287318	13535 623979	27058 1292626	62874 2438209	152019	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7336 252552	10953 702934	27847 1471756	66053 2792667	118843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	++++ 62183	++++ 154173	8608 299770	27657 574229	31136	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	++++ 124192	6390 261785	11654 554862	26715 1072303	67857	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
C6 Range	DFB	Ave	++++ 1486536	++++ 3269816	158324 6658150	413651 12646140	798122	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3812 162048	7105 349716	14709 740038	34062 1437926	88092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	7013 226825	10963 580239	23694 1173108	55497 2249979	111136	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	10393 399557	19139 854972	38074 1733885	88264 3222951	220429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3171 108657	5491 277825	11620 568674	26675 1112803	53359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	18121 458125	21543 979113	42121 1978262	100749 3633217	249467	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	7065 265342	12584 619039	26755 1258864	62733 2364459	138557	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	++++ 46083	++++ 82932	3365 208198	11427 392886	20371	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2050 87129	4118 183311	7832 386989	17748 739897	46713	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	13377 420219	20833 1001056	43460 2056884	99885 3767953	216710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	10904 456074	20285 971827	39697 1935824	87071 3637079	253299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2634 105034	4968 230624	9371 486742	22575 955560	57321	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	7382 269460	12550 644115	26216 1330498	61797 2539084	140209	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	18668 698528	33471 1512131	64637 3062538	153532 5605178	379952	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	++++ 173660	++++ 387353	16412 802540	37765 1557247	92876	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	3673 134694	6540 338092	13773 703945	32660 1369406	68459	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5731 223221	10149 496086	20113 1037668	48024 2005451	120461	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5575 208967	9681 481768	19723 992840	47176 1882498	109213	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	10456 428361	19392 988246	38998 1982561	95481 3607863	222900	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1560 68192	2666 144702	4858 278700	11580 541585	32148	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	4876 156614	7576 411179	15415 840759	35528 1629075	75332	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methylcyclohexane	DFB	Ave	8587 315932	15644 689690	29222 1427118	67377 2706403	172558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	++++ 238205	++++ 616474	++++ 1224874	++++ 2264964	58754 104204	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6137 252459	10568 624843	23603 1292191	57856 2445239	123737	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	6093 260306	10458 683401	24592 1418820	60240 2664845	122686	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	32968 1245649	58166 3232136	130102 6605678	315280 12238642	614299	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	13825 492620	22692 1262856	52549 2527126	124698 4533445	244760	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	3922 145220	6629 370593	14841 772819	35409 1480801	72923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	11243 437193	19604 1121650	43781 2245277	107205 4120545	220271	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	11253 443539	19514 1127221	44663 2265001	108594 4134387	220722	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	++++ 122157	++++ 326086	++++ 651527	++++ 1243696	28985 53001	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	++++ 185816	++++ 453833	17370 940368	42571 1783859	97549	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	++++ 1578746	++++ 3858825	++++ 7747718	++++ 14384218	152600 825217	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	8244 357310	13919 891640	30996 1809606	78847 3317082	181799	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	6240 272225	11405 692262	25748 1420824	65478 2674424	131864	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5734 222040	10472 507582	20832 1034130	49429 1953161	119291	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	10531 396976	18332 1013557	40882 2037383	97956 3680646	203827	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	++++ 376557	21399 927492	38124 1852481	93439 3366830	197875	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	17902 628778	29001 1669322	67665 3207997	166497 5443421	304843	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	13721 510954	22986 1357657	53195 2642099	130640 4614900	246558	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	28223 999181	46104 2605149	112190 4814240	267837 7683015	487782	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	8089 272283	13545 712132	27062 1436340	66889 2620480	133167	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Bromoform	CBZ	Ave	6335 332962	11111 882485	26790 1784041	70763 3244960	158429	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	8394 352561	13845 1001466	33626 2030292	86970 3601712	161753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	15149 526745	25017 1416222	57735 2750787	139586 4726720	256574	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	8083 322484	13651 868596	32047 1735690	79958 3175868	153940	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	2919 114493	5119 311616	11797 633201	29047 1195261	55060	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	21219 699905	32432 1874573	76964 3555567	185082 5909104	335923	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	4976 183850	7510 520031	18506 1065312	45961 1993859	84931	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	4729 176169	7705 476591	17603 976295	44239 1833107	84513	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	19646 675824	31212 1799083	70911 3512011	178378 5812180	327482	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	7916 310537	13614 848809	30776 1728961	77917 3091405	145398	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	5859 269227	9542 779384	23013 1600565	62581 2908151	115910	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	++++ 289001	++++ 846104	29603 1669019	76277 2999349	118873	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	17744 626982	28432 1654193	65751 3135303	161569 5252070	301418	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	15566 586299	25579 1528353	59068 2896981	148483 4765474	275983	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	21843 799188	34350 2075886	80392 3796173	203410 5960217	372205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	9741 373457	16339 1016646	37308 2018850	92265 3543123	171813	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	11276 521420	19065 1420098	43005 2720172	113406 4519158	219657	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	9515 367119	16293 1006802	36146 2005433	89267 3544038	168471	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	16909 696850	28541 1811133	66684 3351783	170267 5485302	303377	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	12896 505951	20628 1318893	49877 2491717	126221 4296018	230550	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	12727 447390	20664 1159846	46534 2227957	116110 3848373	210427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 758

SDG No.: _____

Instrument ID: ME GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2014 14:11 Calibration End Date: 01/28/2014 20:25 Calibration ID: 115

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Indane	CBZ	Ave	13794 511506	21875 1363869	51140 2579616	127267 4245253	238195	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZ	Ave	9201 356608	16179 960245	36225 1888530	88427 3280222	161929	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	11685 508039	19661 1373303	45425 2649546	120788 4380607	224004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	15008 618784	25192 1651323	57703 3029659	152505 4749223	261092	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	6323 267950	12104 808471	20040 1693437	52564 3009425	110860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	13135 601075	25221 1658826	53123 3056488	145137 4989574	253858	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	12600 620163	26323 1720503	47501 3131815	129088 5052406	261654	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8126 397401	17678 1115507	30103 2088639	81098 3599938	168329	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	11965 513080	22522 1395159	37577 2601031	99907 4367328	217297	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	++++ 266531	++++ 480371	++++ 948787	41037 1821914	116179	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	6470 254490	11860 659432	17983 1367132	47531 2614768	107995	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	++++ 506405	++++ 1232774	30618 2452886	81568 4473334	206421	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzo (b) thiophene	CBZ	Ave	++++ 376890	++++ 827312	22418 1710074	59699 3366455	154579	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	++++ 303483	15805 849966	32185 1617593	77316 2804459	127160	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 226991	++++ 462386	13788 958303	36488 1945035	94418	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	++++ 210283	++++ 265416	9403 531580	22232 1080016	84076	++++ 12.5	++++ 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	++++ 181928	++++ 226940	8399 454062	20319 896319	74269	++++ 12.5	++++ 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1028946 861304	861670 1025754	928049 1116311	929951 1083719	942369	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D
 Lims ID: IC L1 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 28-Jan-2014 14:11:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical1,1,1,1,,IC L1
 Misc. Info.: E012814I,TO155,140-0000390-002
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:09:00 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 08:59:36

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	274457	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1382921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1174040	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	1028946	4.00	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	79	1872	0.0486	
7 Propene	41	3.319	3.315	0.004	88	5081	0.0736	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	95	14033	0.0462	
9 Chloromethane	52	3.535	3.535	0.0	53	1923	0.0794	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	88	7832	0.0428	
11 Acetaldehyde	44	3.681	3.684	-0.003	94	35570	1.55	
12 Vinyl chloride	62	3.697	3.697	0.0	68	4027	0.0430	
14 Butane	43	3.778	3.778	0.0	83	5875	0.0448	
13 Butadiene	54	3.783	3.780	0.003	64	3121	0.0482	
15 Bromomethane	94	4.080	4.084	-0.004	87	4696	0.0465	
16 Chloroethane	64	4.214	4.217	-0.003	57	2144	0.0451	
17 Ethanol	31	4.312	4.321	-0.009	98	9783	0.3564	
18 Vinyl bromide	106	4.500	4.503	-0.003	85	3994	0.0437	
19 2-Methylbutane	43	4.549	4.545	0.004	81	4458	0.0464	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	92	13326	0.0438	
20 Acrolein	56	4.770	4.773	-0.003	79	1951	0.0672	
22 Acetonitrile	40	4.840	4.845	-0.005	80	1363	0.0522	
23 Acetone	58	4.905	4.892	0.013	90	26935	0.6479	
25 Pentane	72	4.969	4.970	-0.001	91	791	0.0439	
24 Isopropyl alcohol	45	4.980	4.978	0.002	64	9649	0.0902	
26 Ethyl ether	31	5.147	5.138	0.009	79	3213	0.0460	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	85	3425	0.0420	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	76	10567	0.0698	
28 Acrylonitrile	53	5.568	5.569	-0.001	29	2303	0.0479	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.622	5.622	0.0	82	8211	0.0436	
31 Methylene Chloride	84	5.800	5.802	-0.002	82	5575	0.0711	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	71	4968	0.0537	
33 Carbon disulfide	76	5.945	5.953	-0.008	97	12270	0.0432	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	82	4154	0.0415	
35 2-Methylpentane	43	6.609	6.615	-0.006	81	8197	0.0454	
36 Methyl tert-butyl ether	73	6.754	6.736	0.018	84	10828	0.0435	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	71	7528	0.0445	
38 Vinyl acetate	43	7.132	7.140	-0.008	96	7336	0.0439	
39 2-Butanone (MEK)	72	7.595	7.593	0.002	91	5150	0.1146	
40 Hexane	56	7.595	7.599	-0.004	58	3865	0.0529	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	70	3812	0.0408	
42 Ethyl acetate	43	8.216	8.212	0.004	84	7013	0.0480	
43 Chloroform	83	8.361	8.364	-0.003	17	10393	0.0442	
44 Tetrahydrofuran	42	8.798	8.769	0.029	74	3171	0.0450	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	75	11921	0.0447	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	72	7065	0.0417	
47 n-Butanol	31	9.984	9.973	0.011	59	2156	0.0836	
49 Cyclohexane	69	10.011	10.002	0.009	77	2050	0.0393	
48 Benzene	78	10.000	10.008	-0.008	90	13377	0.0481	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	92	10904	0.0408	
51 2,3-Dimethylpentane	71	10.119	10.129	-0.010	77	2634	0.0407	
52 Thiophene	84	10.292	10.297	-0.005	61	7382	0.0427	
53 Isooctane	57	10.799	10.797	0.002	90	18668	0.0435	
54 n-Heptane	71	11.192	11.195	-0.003	65	5683	0.0539	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	58	3673	0.0411	
56 Trichloroethene	130	11.316	11.319	-0.003	76	5731	0.0417	
57 Dibromomethane	93	11.408	11.410	-0.002	84	5575	0.0424	
58 Dichlorobromomethane	83	11.553	11.558	-0.005	82	10456	0.0399	
59 1,4-Dioxane	88	11.602	11.582	0.020	63	1560	0.0422	
60 Methyl methacrylate	41	11.667	11.661	0.006	56	4876	0.0465	
61 Methylcyclohexane	83	12.098	12.099	-0.001	84	8587	0.0436	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.530	0.010	79	9367	0.0572	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	68	6137	0.0389	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	63	6093	0.0384	
65 Toluene	91	13.408	13.411	-0.003	81	13825	0.0440	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	79	3922	0.0424	
67 2-Methylthiophene	97	13.565	13.567	-0.002	76	11243	0.0412	
68 3-Methylthiophene	97	13.764	13.769	-0.005	78	11253	0.0409	
69 2-Hexanone	58	13.894	13.885	0.009	81	4495	0.0605	
70 n-Octane	85	14.109	14.108	0.001	80	6231	0.0556	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	81	8244	0.0393	
72 Ethylene Dibromide	107	14.498	14.494	0.004	66	6240	0.0378	
73 Tetrachloroethene	129	14.557	14.562	-0.005	84	5734	0.0428	
74 Chlorobenzene	112	15.447	15.443	0.004	44	10531	0.0420	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	79	12216	0.0507	
76 Ethylbenzene	91	15.733	15.733	0.0	91	17902	0.0444	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	64	13721	0.0425	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	98	28223	0.0890	
81 n-Nonane	57	16.315	16.313	0.002	75	8089	0.0460	
79 Bromoform	173	16.342	16.344	-0.002	79	6335	0.0336	
80 Styrene	104	16.363	16.361	0.002	87	8394	0.0383	
82 o-Xylene	91	16.417	16.419	-0.002	87	15149	0.0442	
83 1,1,2,2-Tetrachloroethane	83	16.746	16.751	-0.005	81	8083	0.0401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	74	2919	0.0397	
85 Isopropylbenzene	105	17.005	17.006	-0.001	78	21219	0.0469	
86 N-Propylbenzene	120	17.555	17.555	0.0	91	4976	0.0421	
87 2-Chlorotoluene	126	17.604	17.600	0.004	79	4729	0.0419	
88 4-Ethyltoluene	105	17.712	17.710	0.002	90	19646	0.0453	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	85	7916	0.0403	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	70	5859	0.0361	
91 n-Decane	57	18.084	18.081	0.003	90	11131	0.0598	
92 tert-Butylbenzene	119	18.218	18.219	-0.001	78	17744	0.0448	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	80	15566	0.0432	
95 sec-Butylbenzene	105	18.493	18.494	-0.001	89	21843	0.0449	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	85	9741	0.0416	
96 Benzyl chloride	91	18.591	18.591	0.0	83	11276	0.0381	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	81	9515	0.0413	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	73	16909	0.0412	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	84	12896	0.0422	
100 Butylcyclohexane	83	18.768	18.769	-0.001	89	12727	0.0451	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	88	13794	0.0438	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	77	9201	0.0412	
103 Indene	116	19.103	19.098	0.005	86	11685	0.0391	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	15008	0.0413	
106 Undecane	57	19.416	19.416	0.0	79	6323	0.0385	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	80	13135	0.0372	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	86	12600	0.0361	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	80	8126	0.0356	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	84	11965	0.0410	
110 Dodecane	57	20.472	20.473	-0.001	70	6552	0.0532	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	70	6470	0.0434	
112 Naphthalene	128	20.801	20.803	-0.002	91	10268	0.0394	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	78	8227	0.0436	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	75	9953	0.0511	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	68	4770	0.0429	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	73	5593	0.4538	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	63	4124	0.3843	
A 118 C6 Range	1	7.595	7.558 -	7.633	0	64655	0.0683	
A 119 Toluene Range	1	13.408	13.371 -	13.446	0	32968	0.0399	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	53096	0.0537	
S 124 Xylenes, Total	100				0		0.1332	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date: 28-Jan-2014 14:11:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L1

Lab Sample ID:

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

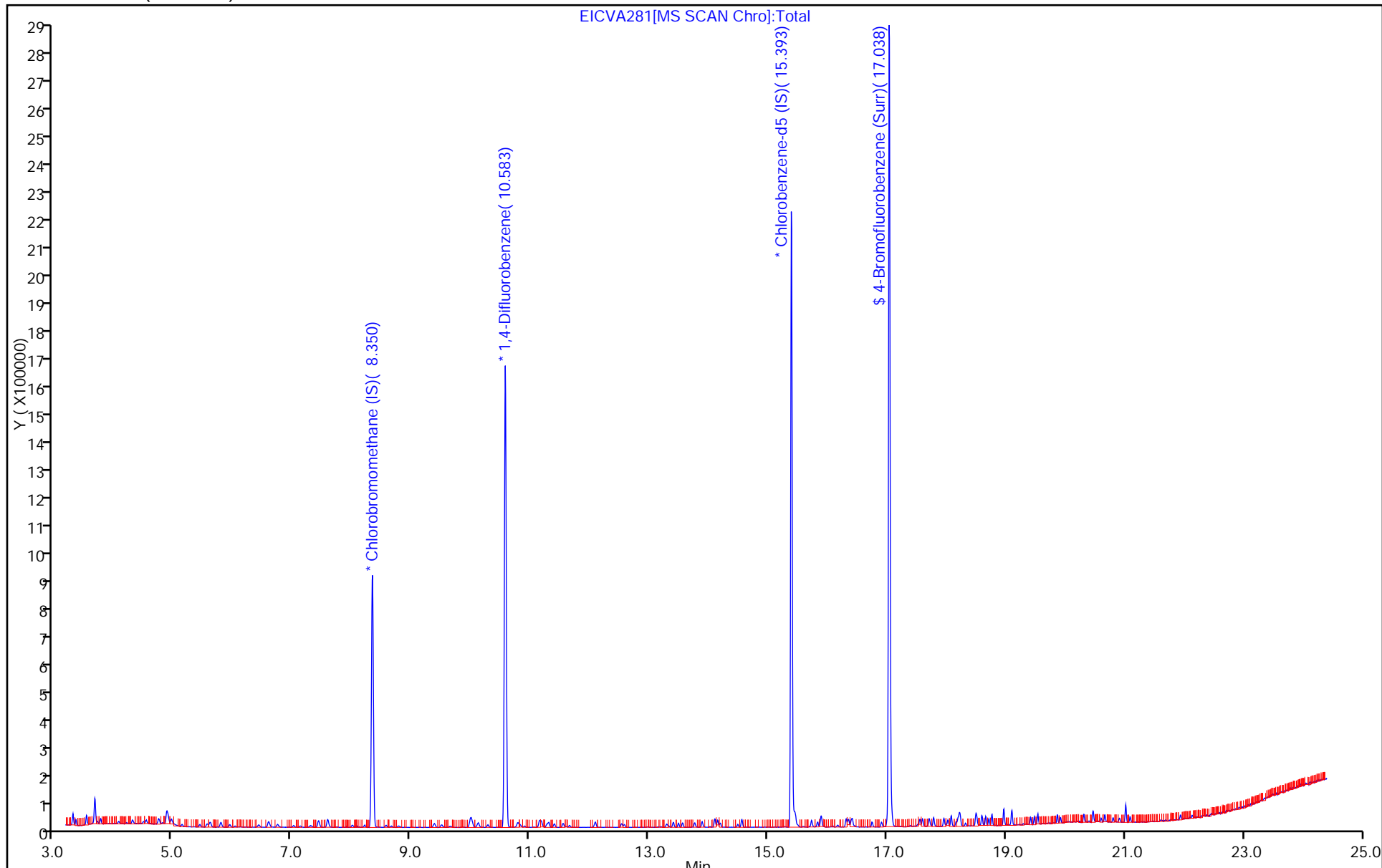
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date: 28-Jan-2014 14:11:30 Instrument ID: ME

Lims ID: IC L1 Lab Sample ID:

Client ID:

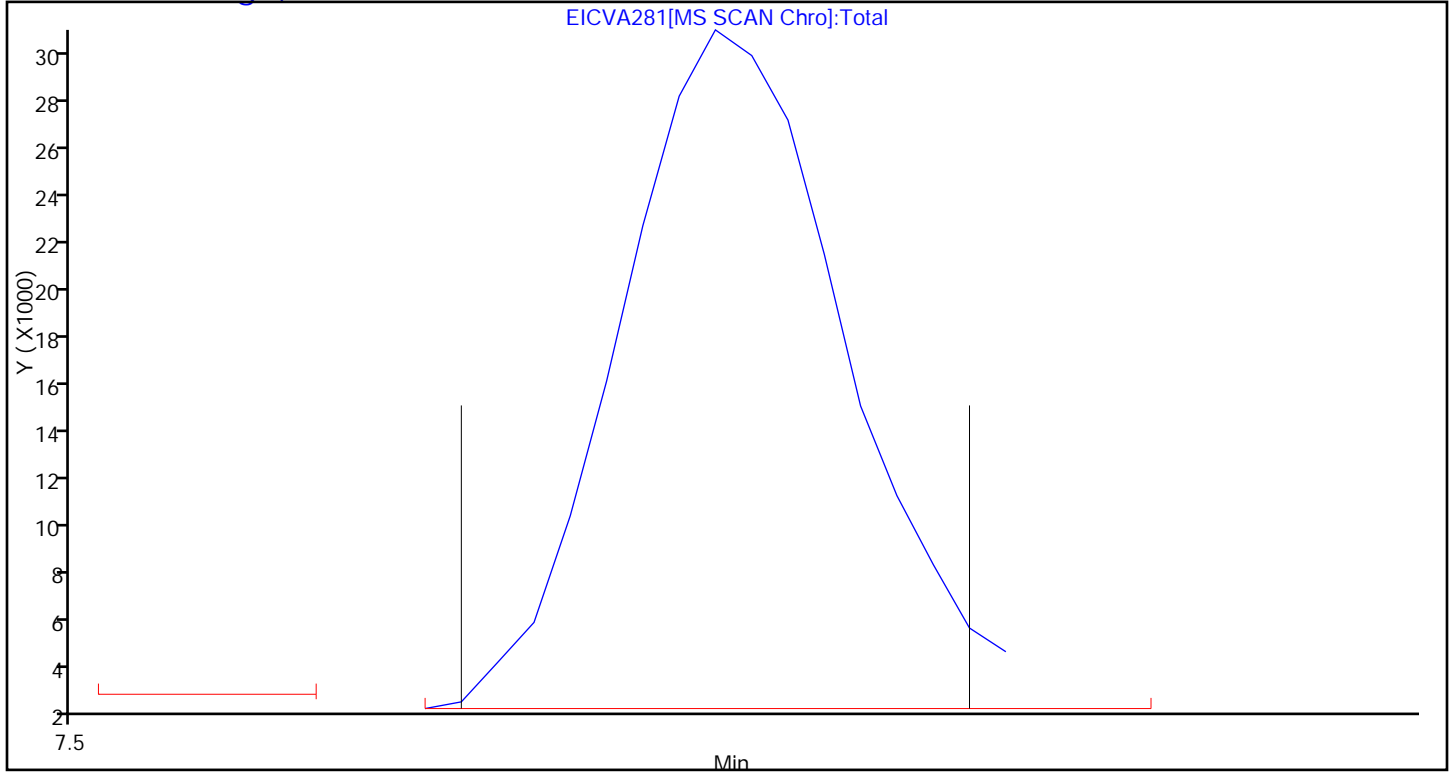
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date: 28-Jan-2014 14:11:30 Instrument ID: ME

Lims ID: IC L1 Lab Sample ID:

Client ID:

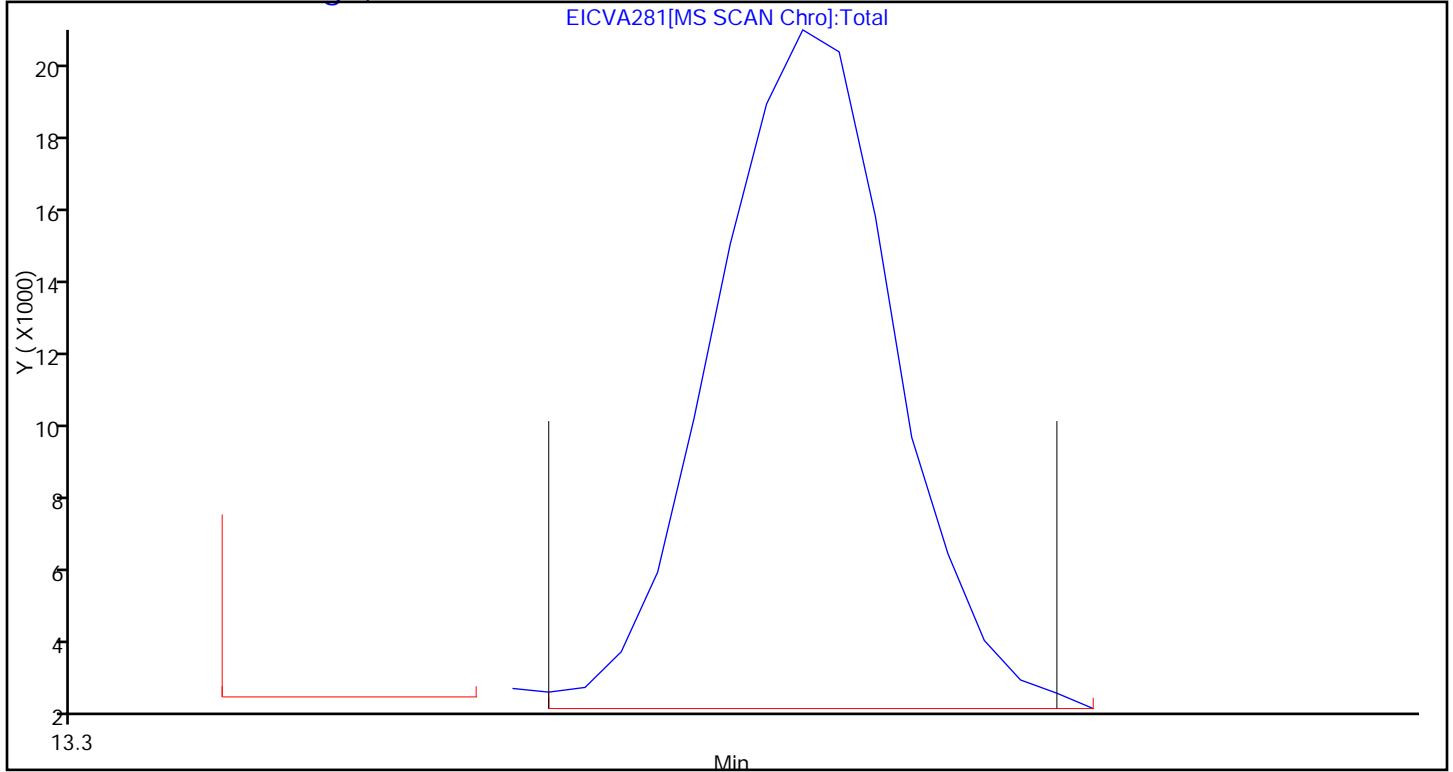
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA281.D

Injection Date: 28-Jan-2014 14:11:30 Instrument ID: ME

Lims ID: IC L1 Lab Sample ID:

Client ID:

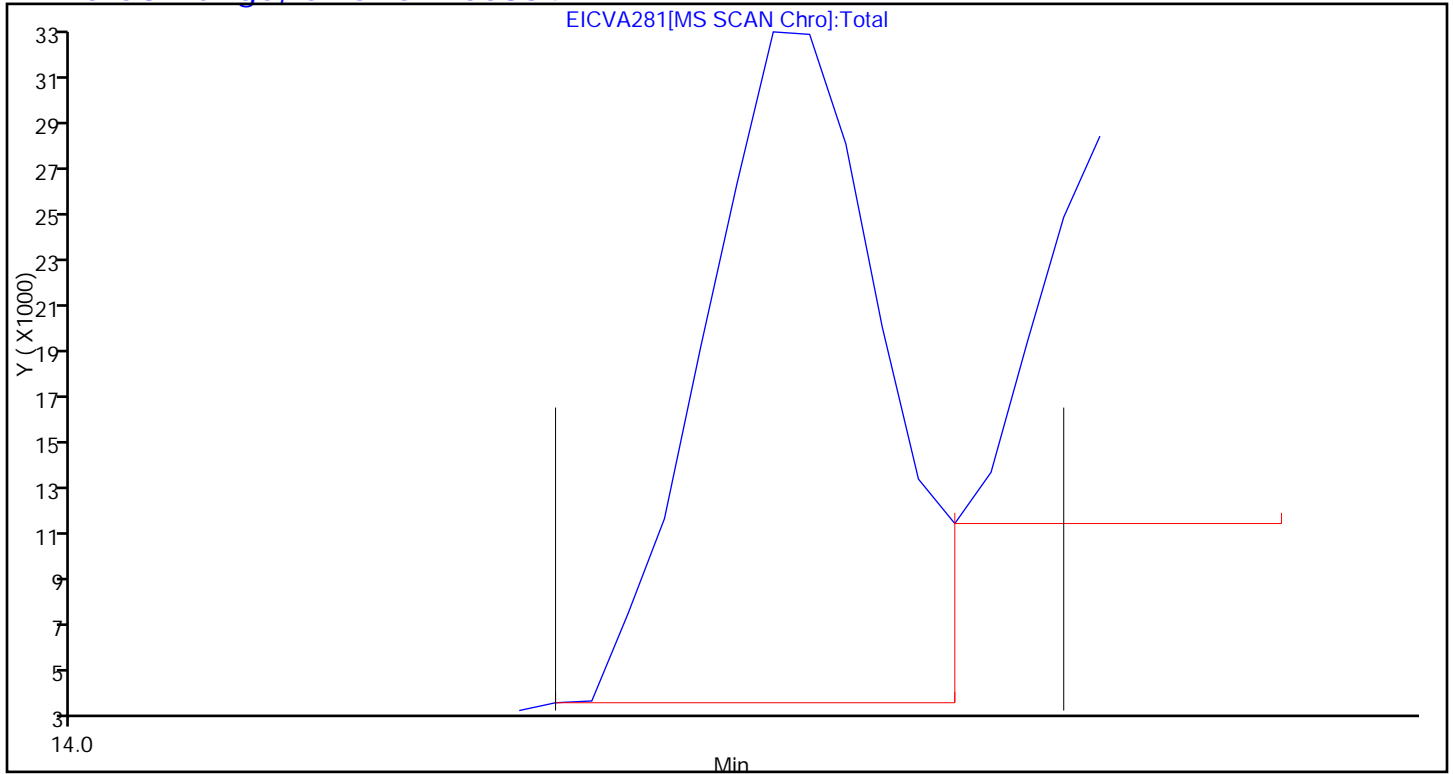
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D
 Lims ID: IC L2 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 28-Jan-2014 14:57:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,2,,IC L2
 Misc. Info.: E012814I,TO155,140-0000390-003
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:08:52 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 09:02:00

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	249752	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1149424	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	999407	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	861670	3.94	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	83	3356	0.0958	
7 Propene	41	3.314	3.315	-0.001	78	9353	0.1489	
8 Dichlorodifluoromethane	85	3.363	3.363	-0.001	98	25193	0.0912	
9 Chloromethane	52	3.535	3.535	0.0	57	2523	0.1144	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	13215	0.0794	
11 Acetaldehyde	44	3.681	3.684	-0.003	93	57321	2.74	
12 Vinyl chloride	62	3.697	3.697	0.0	81	7688	0.0903	
14 Butane	43	3.778	3.778	0.0	82	11359	0.0951	
13 Butadiene	54	3.778	3.780	-0.002	68	5306	0.0901	
15 Bromomethane	94	4.085	4.084	0.001	90	8708	0.0947	
16 Chloroethane	64	4.215	4.217	-0.003	70	3690	0.0854	
17 Ethanol	31	4.312	4.321	-0.009	97	17117	0.6852	
18 Vinyl bromide	106	4.500	4.503	-0.003	92	7103	0.0855	
19 2-Methylbutane	43	4.543	4.545	-0.002	85	8013	0.0916	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	25657	0.0926	
20 Acrolein	56	4.765	4.773	-0.008	11	4015	0.1520	
22 Acetonitrile	40	4.840	4.845	-0.005	80	2347	0.0988	
23 Acetone	58	4.905	4.892	0.013	92	42566	1.13	
25 Pentane	72	4.969	4.970	-0.001	92	1523	0.0929	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	71	17194	0.1765	
26 Ethyl ether	31	5.147	5.138	0.009	81	4714	0.0742	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	90	6453	0.0869	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	92	19736	0.1432	
28 Acrylonitrile	53	5.563	5.569	-0.006	31	3265	0.0746	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.617	5.622	-0.005	90	15070	0.0878	
31 Methylene Chloride	84	5.794	5.802	-0.008	87	7981	0.1118	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.805	5.814	-0.009	70	7829	0.0929	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	23849	0.0923	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	93	8313	0.0913	
35 2-Methylpentane	43	6.614	6.615	-0.001	85	14829	0.0902	
36 Methyl tert-butyl ether	73	6.749	6.736	0.013	88	18385	0.0811	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	86	13535	0.0879	
38 Vinyl acetate	43	7.137	7.140	-0.003	97	10953	0.0721	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	93	9312	0.2278	
40 Hexane	56	7.596	7.599	-0.003	59	6390	0.0962	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	79	7105	0.0836	
42 Ethyl acetate	43	8.210	8.212	-0.002	92	10963	0.0824	
43 Chloroform	83	8.356	8.364	-0.008	23	19139	0.0894	
44 Tetrahydrofuran	42	8.787	8.769	0.018	79	5491	0.0857	
45 1,1,1-Trichloroethane	97	9.386	9.394	-0.008	86	21543	0.0887	
46 1,2-Dichloroethane	62	9.504	9.514	-0.010	84	12584	0.0893	
47 n-Butanol	31	9.984	9.973	0.011	62	3162	0.1476	
49 Cyclohexane	69	9.995	10.002	-0.007	82	4118	0.0949	
48 Benzene	78	10.001	10.008	-0.007	94	20833	0.0901	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	93	20285	0.0913	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	81	4968	0.0923	
52 Thiophene	84	10.292	10.297	-0.005	75	12550	0.0873	
53 Isooctane	57	10.793	10.797	-0.004	92	33471	0.0937	
54 n-Heptane	71	11.192	11.195	-0.003	77	10310	0.1178	
55 1,2-Dichloropropane	63	11.279	11.286	-0.008	67	6540	0.0880	
56 Trichloroethene	130	11.316	11.319	-0.003	82	10149	0.0889	
57 Dibromomethane	93	11.403	11.410	-0.007	88	9681	0.0887	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	92	19392	0.0891	
59 1,4-Dioxane	88	11.597	11.582	0.015	60	2666	0.0869	
60 Methyl methacrylate	41	11.661	11.661	0.0	61	7576	0.0869	
61 Methylcyclohexane	83	12.098	12.099	-0.001	91	15644	0.0956	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.530	0.005	81	13259	0.0973	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	85	10568	0.0806	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	76	10458	0.0775	
65 Toluene	91	13.409	13.411	-0.003	91	22692	0.0848	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	88	6629	0.0841	
67 2-Methylthiophene	97	13.565	13.567	-0.002	89	19604	0.0843	
68 3-Methylthiophene	97	13.764	13.769	-0.005	87	19514	0.0833	
69 2-Hexanone	58	13.888	13.885	0.003	86	7802	0.1235	
70 n-Octane	85	14.110	14.108	0.002	80	11465	0.1201	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	86	13919	0.0780	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	84	11405	0.0811	
73 Tetrachloroethene	129	14.562	14.562	0.0	88	10472	0.0918	
74 Chlorobenzene	112	15.441	15.443	-0.002	45	18332	0.0859	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	21399	0.1043	
76 Ethylbenzene	91	15.733	15.733	0.0	95	29001	0.0845	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	76	22986	0.0836	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	46104	0.1708	
81 n-Nonane	57	16.310	16.313	-0.003	84	13545	0.0904	
79 Bromoform	173	16.342	16.344	-0.002	84	11111	0.0693	
80 Styrene	104	16.358	16.361	-0.003	91	13845	0.0741	
82 o-Xylene	91	16.417	16.419	-0.002	89	25017	0.0857	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	90	13651	0.0795	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	86	5119	0.0818	
85 Isopropylbenzene	105	17.005	17.006	-0.001	75	32432	0.0842	
86 N-Propylbenzene	120	17.555	17.555	0.0	95	7510	0.0746	
87 2-Chlorotoluene	126	17.604	17.600	0.004	86	7705	0.0803	
88 4-Ethyltoluene	105	17.712	17.710	0.002	92	31212	0.0846	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	89	13614	0.0814	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	75	9542	0.0691	
91 n-Decane	57	18.084	18.081	0.003	93	18722	0.1182	
92 tert-Butylbenzene	119	18.219	18.219	-0.001	80	28432	0.0844	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	82	25579	0.0834	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	34350	0.0830	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	92	16339	0.0819	
96 Benzyl chloride	91	18.591	18.591	0.0	95	19065	0.0756	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	16293	0.0831	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	78	28541	0.0817	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	93	20628	0.0793	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	20664	0.0859	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	21875	0.0816	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	16179	0.0851	
103 Indene	116	19.097	19.098	-0.001	88	19661	0.0772	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	25192	0.0814	
106 Undecane	57	19.416	19.416	0.0	86	12104	0.0866	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	87	25221	0.0840	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	91	26323	0.0886	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	88	17678	0.0910	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	90	22522	0.0908	
110 Dodecane	57	20.473	20.473	0.0	81	16786	0.1600	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	11860	0.0935	
112 Naphthalene	128	20.807	20.803	0.004	97	22162	0.0998	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	91	16891	0.1051	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	80	15805	0.0954	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	86	10388	0.1097	
116 2-Methylnaphthalene	142	21.939	21.935	0.004	84	9251	0.8818	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	79	8193	0.8970	
A 118 C6 Range	1	7.595	7.547 -	7.633	0	119319	0.1517	
A 119 Toluene Range	1	13.419	13.371 -	13.457	0	58166	0.0848	
A 120 C8 Range	1	14.096	14.072 -	14.147	0	99381	0.1210	
S 124 Xylenes, Total	100				0		0.2566	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date: 28-Jan-2014 14:57:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L2

Lab Sample ID:

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

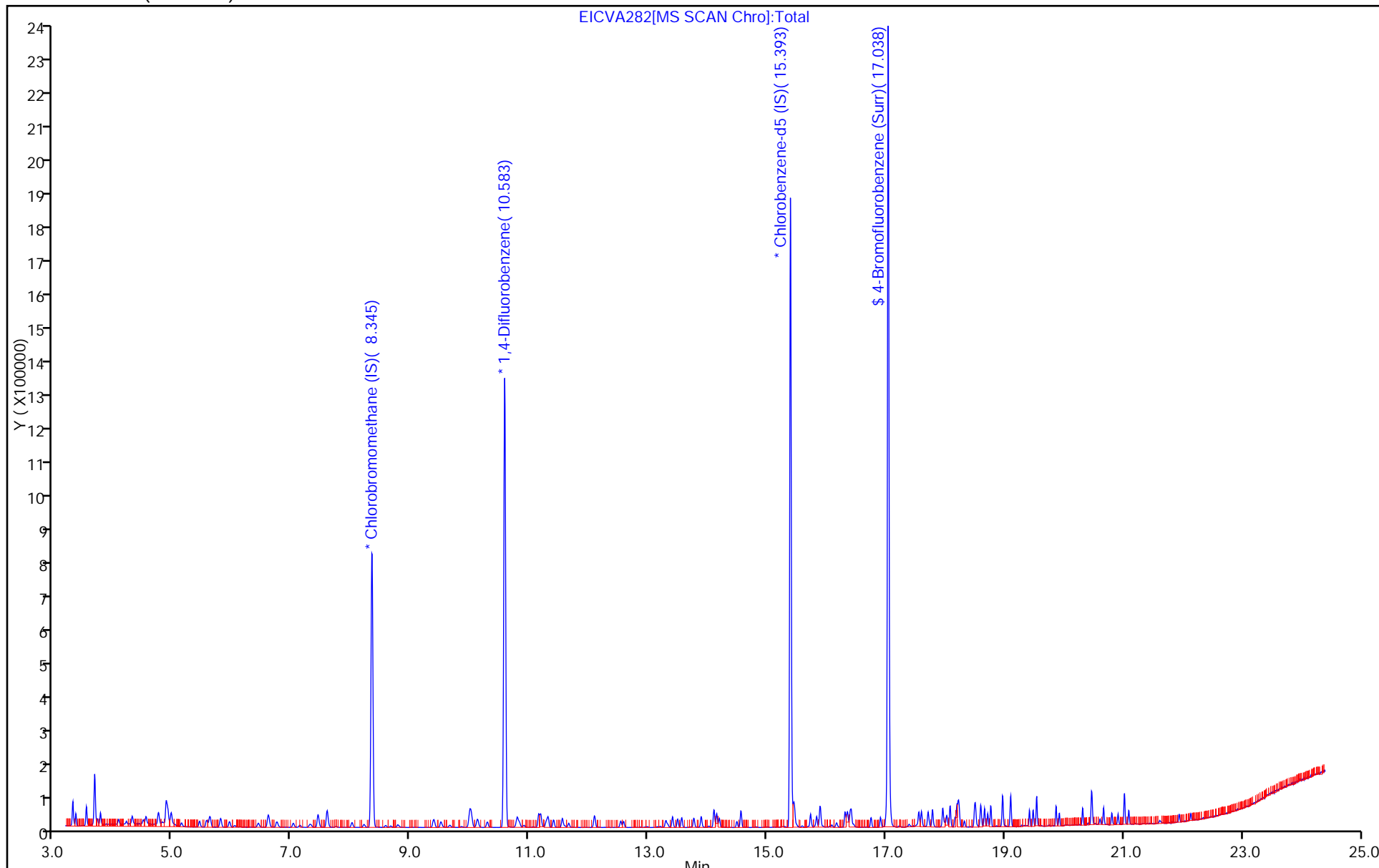
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date: 28-Jan-2014 14:57:30

Instrument ID: ME

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

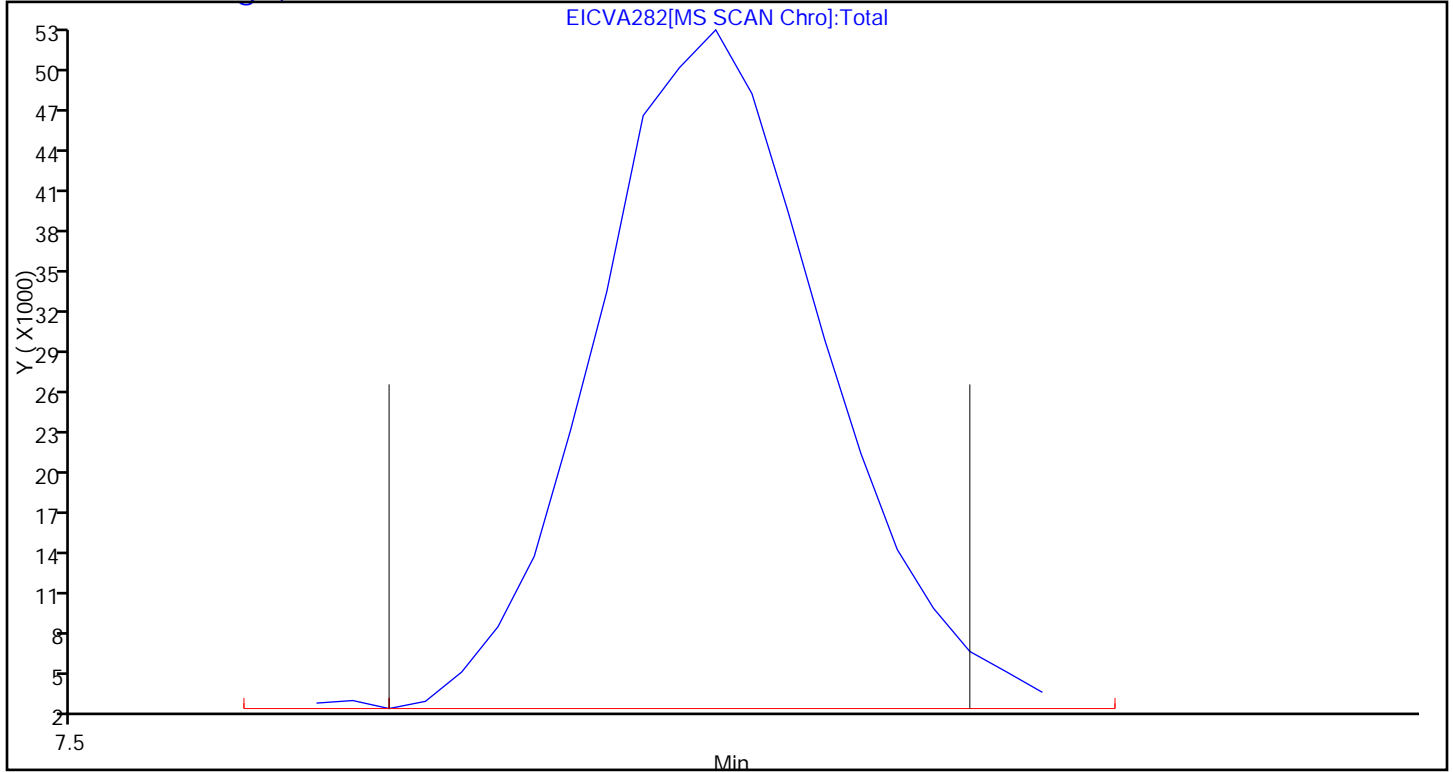
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date: 28-Jan-2014 14:57:30 Instrument ID: ME

Lims ID: IC L2 Lab Sample ID:

Client ID:

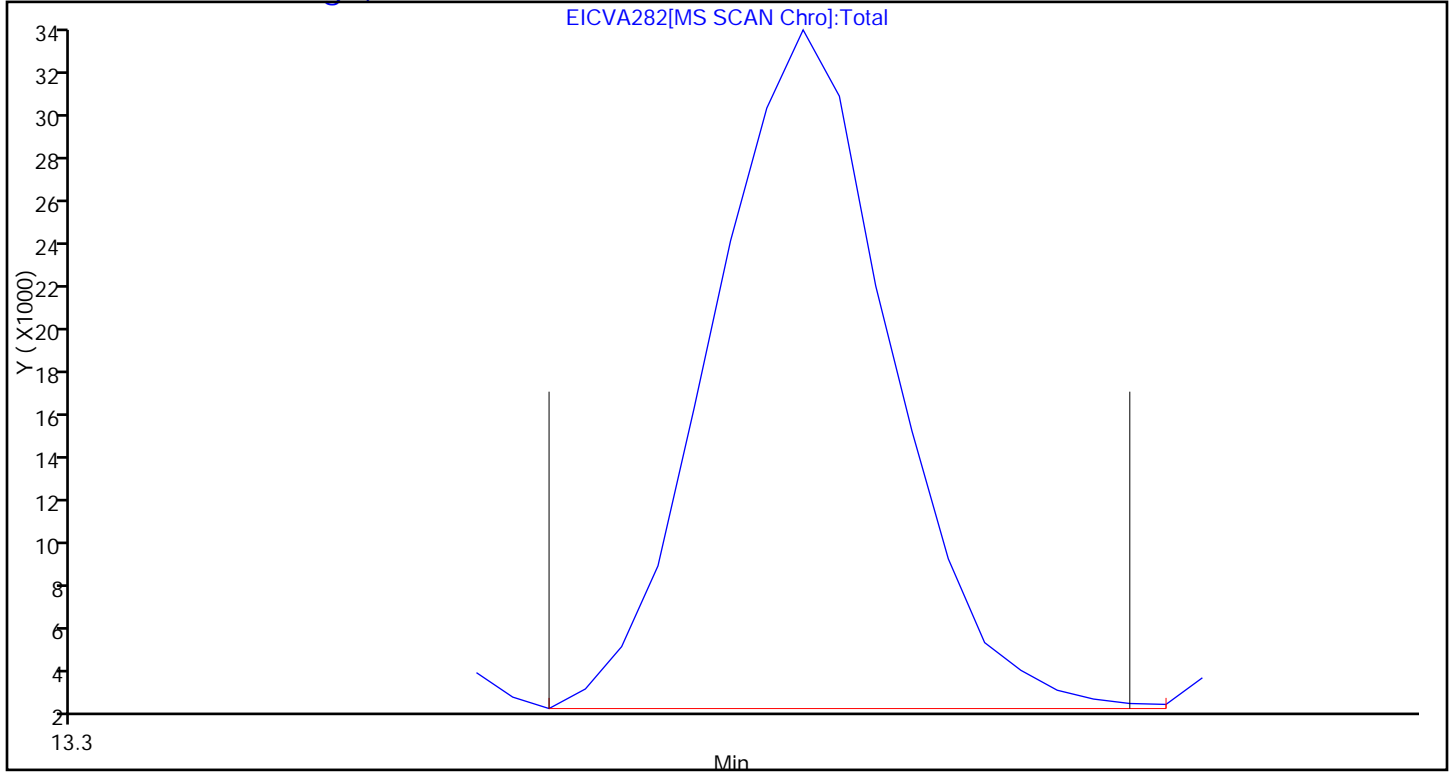
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Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA282.D

Injection Date: 28-Jan-2014 14:57:30 Instrument ID: ME

Lims ID: IC L2 Lab Sample ID:

Client ID:

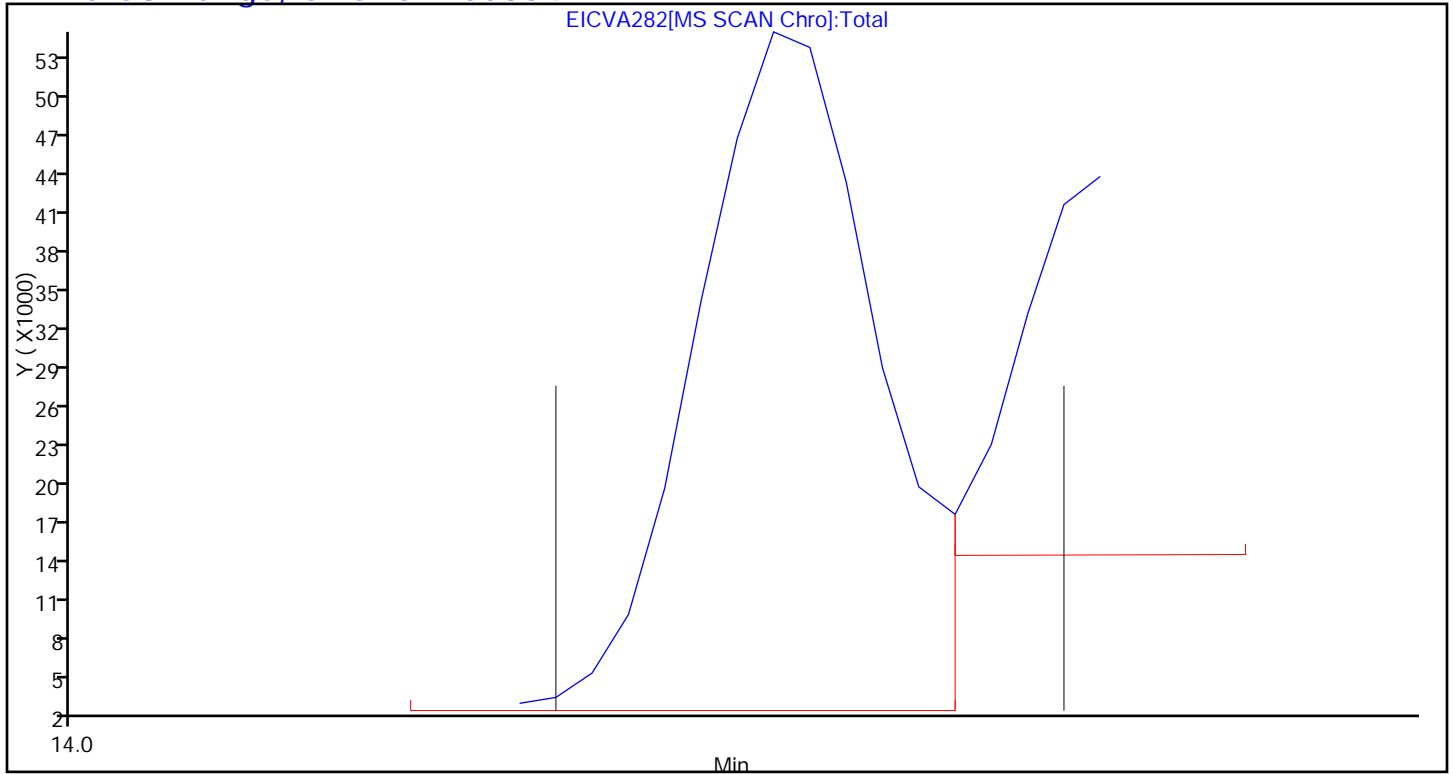
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D
 Lims ID: IC L3 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 28-Jan-2014 15:42:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,3,,IC L3
 Misc. Info.: E012814I,TO155,140-0000390--004
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:08:44 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 09:51:29

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	83	250197	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1186618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1048258	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	928049	4.04	
6 Chlorodifluoromethane	67	3.309	3.305	0.004	95	5831	0.1662	
7 Propene	41	3.314	3.315	-0.001	74	12259	0.1948	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	49136	0.1775	
9 Chloromethane	52	3.535	3.535	0.0	55	4228	0.1914	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	92	31219	0.1872	
11 Acetaldehyde	44	3.681	3.684	-0.003	88	50624	2.42	
12 Vinyl chloride	62	3.697	3.697	0.0	80	14542	0.1704	
14 Butane	43	3.778	3.778	0.0	84	21933	0.1833	
13 Butadiene	54	3.783	3.780	0.003	65	10064	0.1707	
15 Bromomethane	94	4.085	4.084	0.001	91	15666	0.1701	
16 Chloroethane	64	4.215	4.217	-0.002	91	7644	0.1766	
17 Ethanol	31	4.312	4.321	-0.009	98	24887	0.99	
18 Vinyl bromide	106	4.500	4.503	-0.003	94	14877	0.1787	
19 2-Methylbutane	43	4.543	4.545	-0.002	88	16105	0.1838	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	95	51192	0.1844	
20 Acrolein	56	4.770	4.773	-0.003	31	6203	0.2344	
22 Acetonitrile	40	4.840	4.845	-0.005	85	6428	0.2700	
23 Acetone	58	4.889	4.892	-0.003	90	32966	0.8699	
25 Pentane	72	4.969	4.970	-0.001	92	2879	0.1753	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	43	20946	0.2147	
26 Ethyl ether	31	5.142	5.138	0.004	87	11976	0.1881	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	93	12921	0.1736	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	91	24056	0.1742	
28 Acrylonitrile	53	5.563	5.569	-0.006	54	8025	0.1831	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.622	5.622	0.0	91	30318	0.1764	
31 Methylene Chloride	84	5.794	5.802	-0.008	85	14359	0.2008	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	80	15247	0.1806	
33 Carbon disulfide	76	5.951	5.953	-0.002	97	44863	0.1732	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	93	15744	0.1727	
35 2-Methylpentane	43	6.614	6.615	-0.001	87	28823	0.1749	
36 Methyl tert-butyl ether	73	6.744	6.736	0.008	91	41839	0.1842	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	93	27058	0.1753	
38 Vinyl acetate	43	7.137	7.140	-0.003	98	27847	0.1830	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	88	8608	0.2102	
40 Hexane	56	7.601	7.599	0.002	70	11654	0.1751	
41 cis-1,2-Dichloroethene	96	8.011	8.018	-0.007	94	14709	0.1728	
42 Ethyl acetate	43	8.210	8.212	-0.002	93	23694	0.1778	
43 Chloroform	83	8.361	8.364	-0.003	30	38074	0.1776	
44 Tetrahydrofuran	42	8.776	8.769	0.007	77	11620	0.1810	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	42121	0.1732	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	26755	0.1840	
47 n-Butanol	31	9.984	9.973	0.011	65	3365	0.1521	
49 Cyclohexane	69	10.001	10.002	-0.001	69	7832	0.1749	
48 Benzene	78	10.006	10.008	-0.002	96	43460	0.1820	
50 Carbon tetrachloride	117	10.028	10.028	0.0	96	39697	0.1730	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	81	9371	0.1686	
52 Thiophene	84	10.297	10.297	0.0	87	26216	0.1767	
53 Isooctane	57	10.793	10.797	-0.004	94	64637	0.1753	
54 n-Heptane	71	11.192	11.195	-0.003	80	16412	0.1816	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	76	13773	0.1796	
56 Trichloroethene	130	11.316	11.319	-0.003	88	20113	0.1706	
57 Dibromomethane	93	11.408	11.410	-0.002	91	19723	0.1750	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	95	38998	0.1736	
59 1,4-Dioxane	88	11.591	11.582	0.009	65	4858	0.1533	
60 Methyl methacrylate	41	11.661	11.661	0.0	77	15415	0.1714	
61 Methylcyclohexane	83	12.098	12.099	-0.001	93	29222	0.1730	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	91	35924	0.2554	
63 cis-1,3-Dichloropropene	75	12.583	12.588	-0.005	88	23603	0.1743	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	95	24592	0.1737	
65 Toluene	91	13.409	13.411	-0.002	92	52549	0.1871	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	82	14841	0.1795	
67 2-Methylthiophene	97	13.565	13.567	-0.002	96	43781	0.1795	
68 3-Methylthiophene	97	13.764	13.769	-0.005	96	44663	0.1818	
69 2-Hexanone	58	13.894	13.885	0.009	89	11163	0.1684	
70 n-Octane	85	14.104	14.108	-0.004	80	17370	0.1735	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	93	30996	0.1656	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	93	25748	0.1745	
73 Tetrachloroethene	129	14.557	14.562	-0.005	90	20832	0.1742	
74 Chlorobenzene	112	15.441	15.443	-0.002	49	40882	0.1826	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	82	38124	0.1772	
76 Ethylbenzene	91	15.733	15.733	0.0	98	67665	0.1880	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	82	53195	0.1844	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	112190	0.3963	
81 n-Nonane	57	16.315	16.313	0.002	82	27062	0.1723	
79 Bromoform	173	16.342	16.344	-0.002	77	26790	0.1592	
80 Styrene	104	16.364	16.361	0.003	75	33626	0.1717	
82 o-Xylene	91	16.417	16.419	-0.002	86	57735	0.1887	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	94	32047	0.1780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	94	11797	0.1798	
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	76964	0.1904	
86 N-Propylbenzene	120	17.555	17.555	0.0	94	18506	0.1752	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	70	17603	0.1748	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	70911	0.1831	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	90	30776	0.1754	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	79	23013	0.1589	
91 n-Decane	57	18.078	18.081	-0.003	93	29603	0.1782	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	65751	0.1861	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	59068	0.1836	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	80392	0.1852	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	95	37308	0.1784	
96 Benzyl chloride	91	18.591	18.591	0.0	95	43005	0.1626	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	89	36146	0.1757	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	79	66684	0.1819	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	68	49877	0.1827	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	46534	0.1845	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	51140	0.1819	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	36225	0.1818	
103 Indene	116	19.097	19.098	-0.001	85	45425	0.1701	
104 n-Butylbenzene	91	19.103	19.103	0.0	94	57703	0.1777	
106 Undecane	57	19.416	19.416	0.0	89	20040	0.1367	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	90	53123	0.1687	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	94	47501	0.1524	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	90	30103	0.1477	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	92	37577	0.1444	
110 Dodecane	57	20.473	20.473	0.0	84	15132	0.1375	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	88	17983	0.1352	
112 Naphthalene	128	20.801	20.803	-0.002	97	30618	0.1314	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	92	22418	0.1330	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	81	32185	0.1852	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	88	13788	0.1388	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	85	9403	0.8546	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	84	8399	0.8767	
A 118 C6 Range	1	7.601	7.558 -	7.644	0	158324	0.1950	
A 119 Toluene Range	1	13.411	13.360 -	13.468	0	130102	0.1837	
A 120 C8 Range	1	14.115	14.061 -	14.158	0	152600	0.1800	
S 124 Xylenes, Total	100				0		0.5850	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date: 28-Jan-2014 15:42:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L3

Lab Sample ID:

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

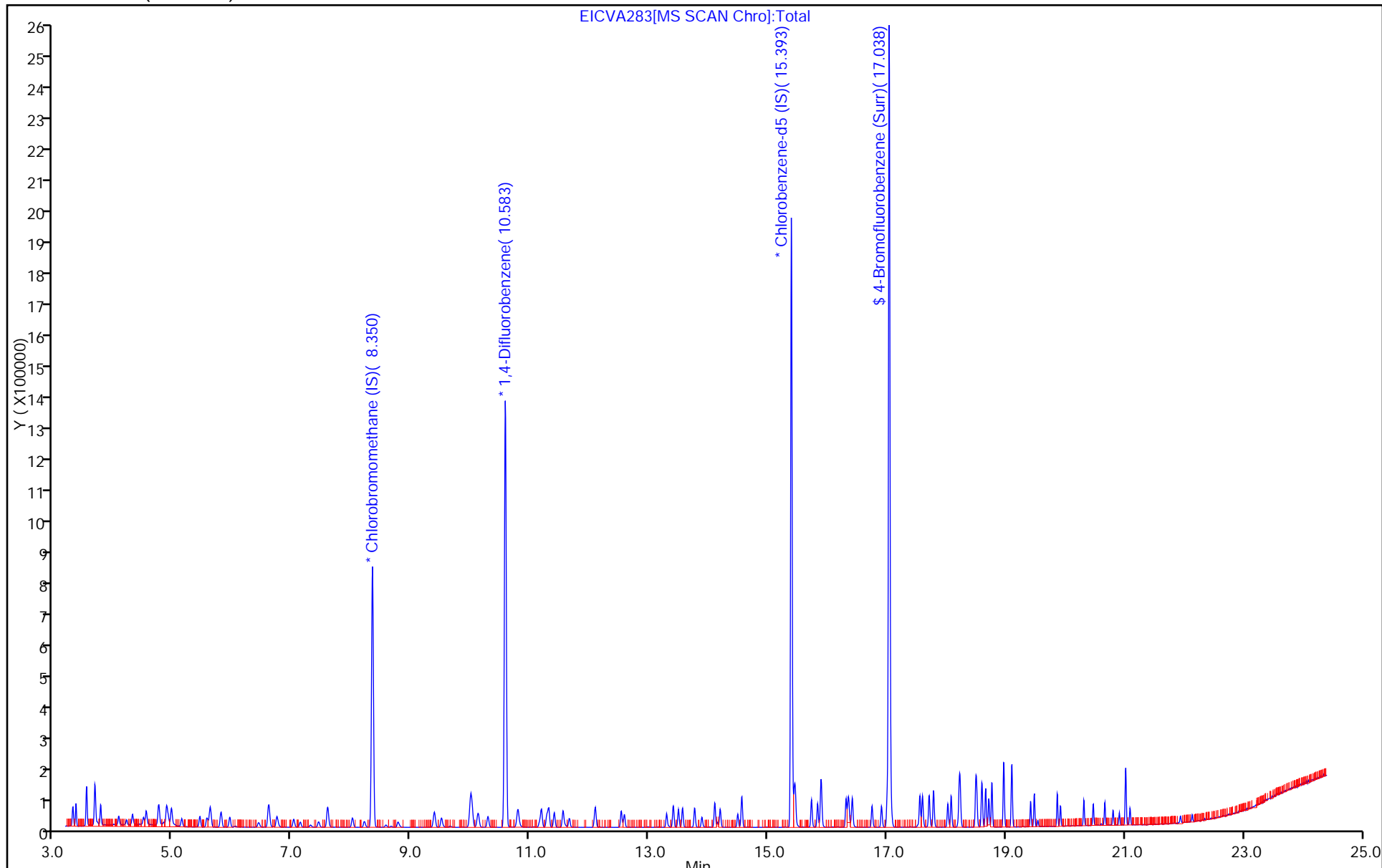
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date: 28-Jan-2014 15:42:30 Instrument ID: ME

Lims ID: IC L3 Lab Sample ID:

Client ID:

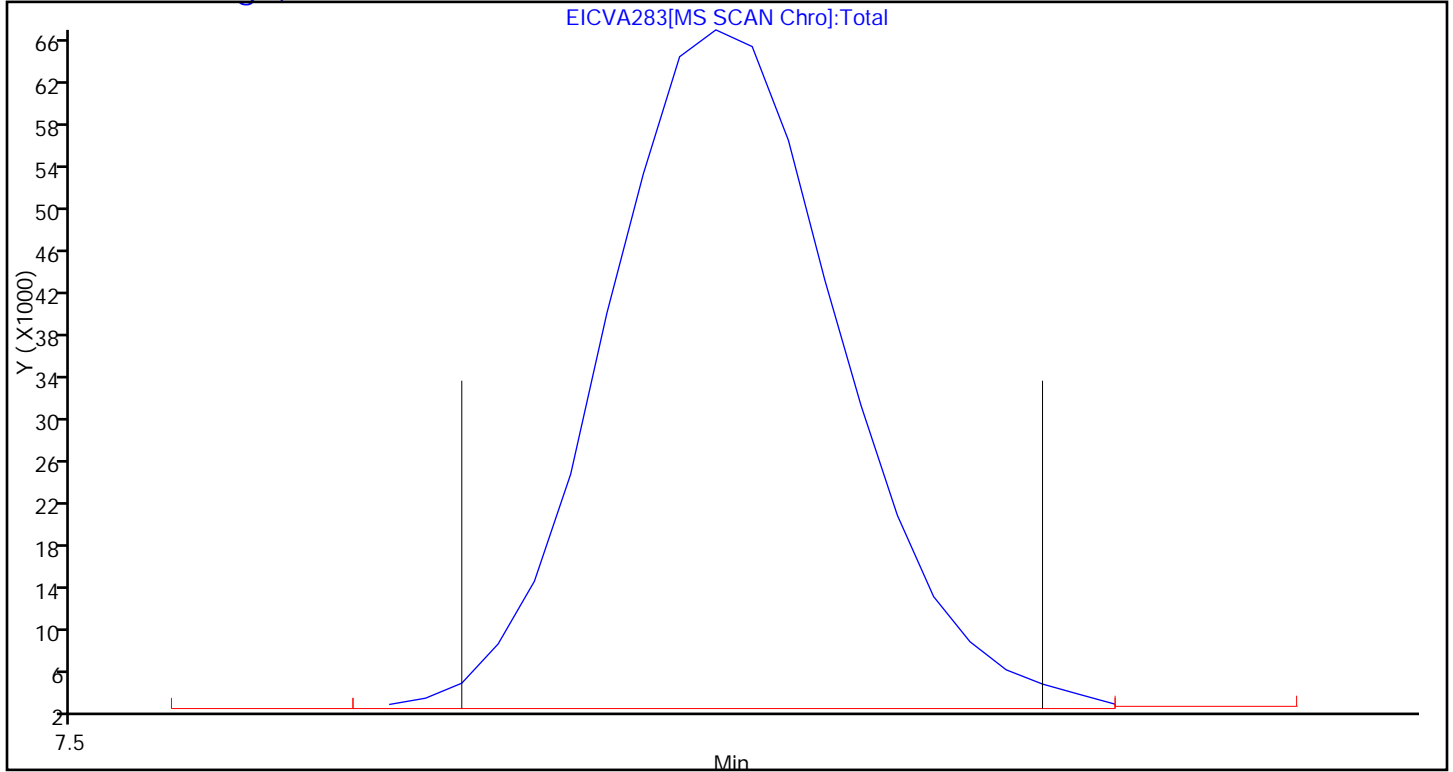
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 4

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date: 28-Jan-2014 15:42:30 Instrument ID: ME

Lims ID: IC L3 Lab Sample ID:

Client ID:

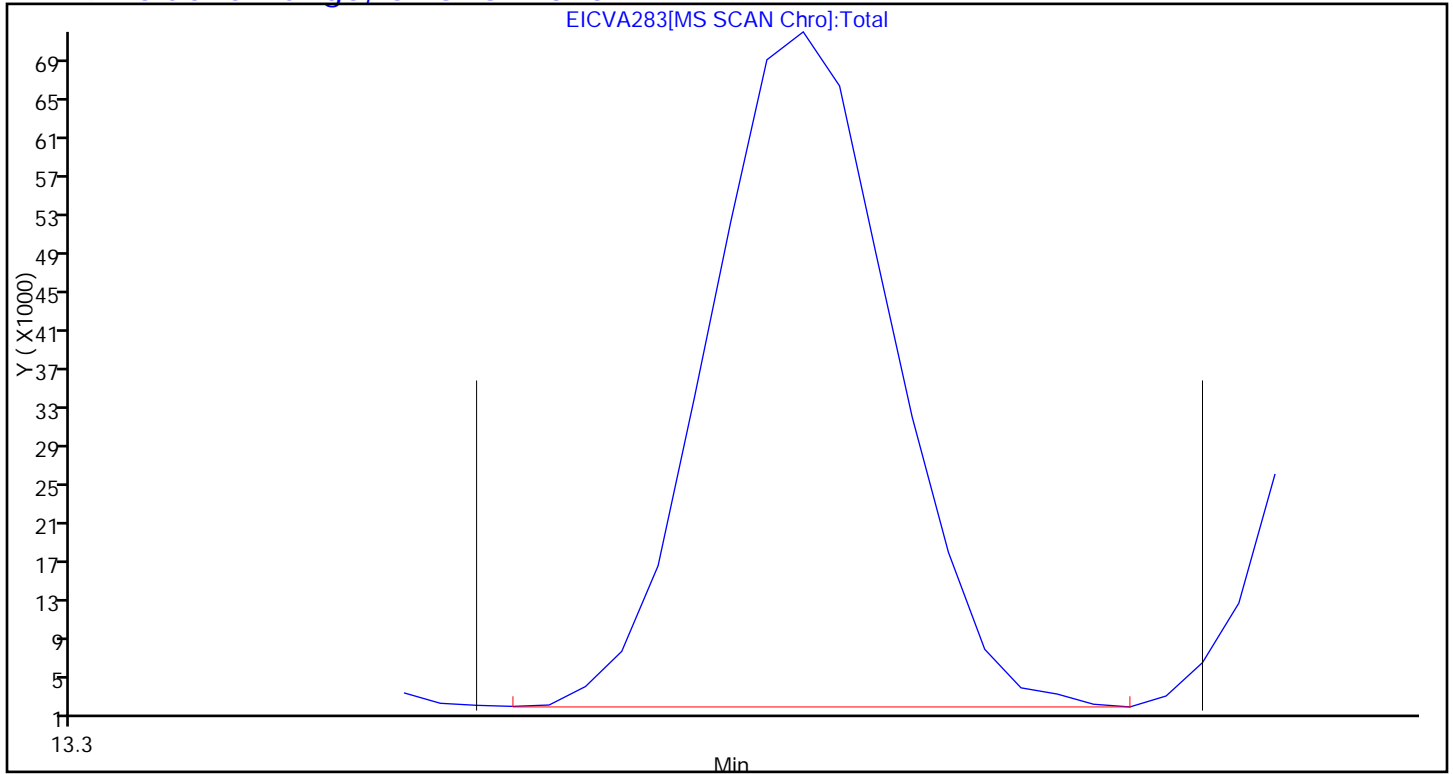
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 4

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA283.D

Injection Date: 28-Jan-2014 15:42:30 Instrument ID: ME

Lims ID: IC L3 Lab Sample ID:

Client ID:

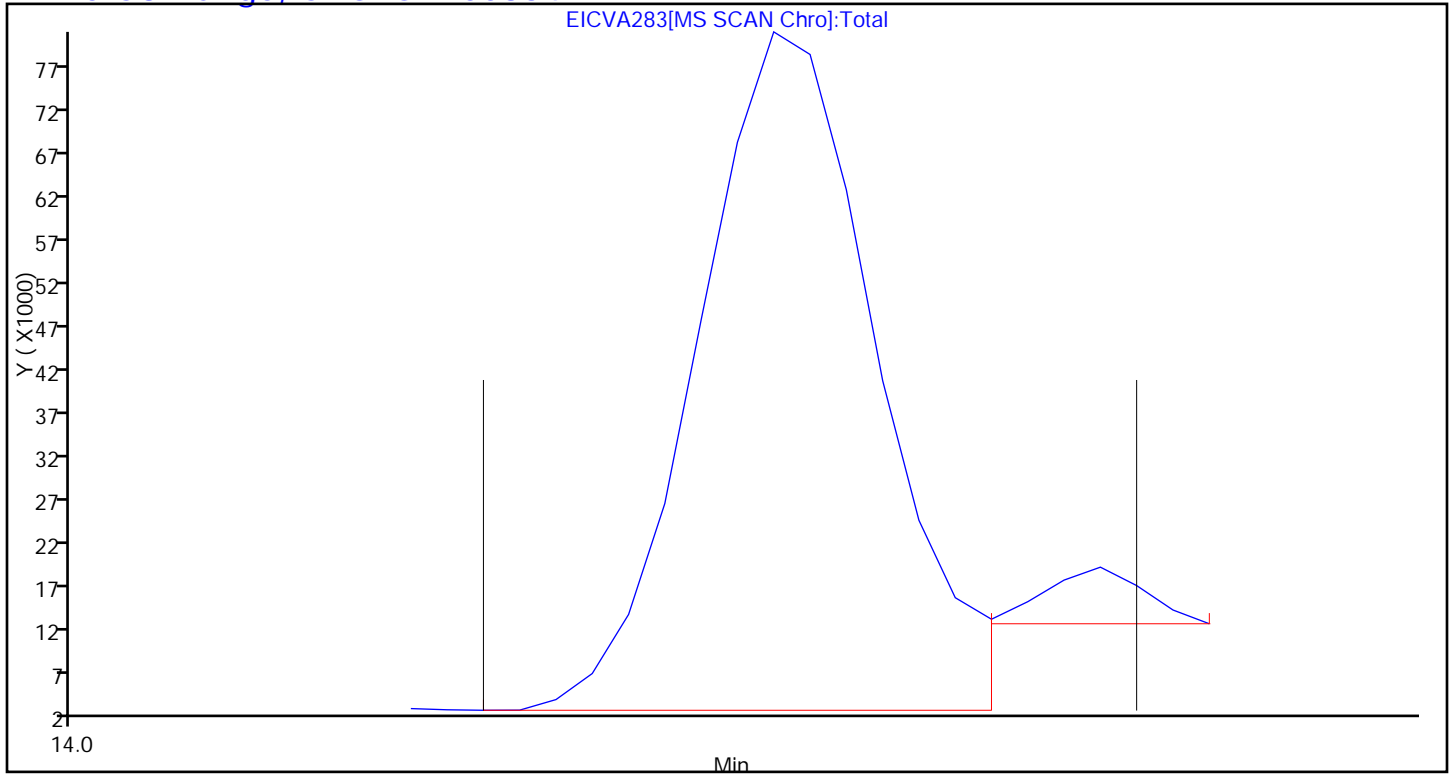
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 4

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D
 Lims ID: IC L4 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 28-Jan-2014 16:27:30 ALS Bottle#: 32 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,4,,IC L4
 Misc. Info.: E012814I,TO155,140-0000390-005
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:08:36 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 09:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.355	-0.005	85	248994	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	96	1214340	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1068430	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	929951	3.97	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	13797	0.3951	
7 Propene	41	3.314	3.315	-0.001	94	36926	0.5895	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	117259	0.4257	
9 Chloromethane	52	3.535	3.535	0.0	97	9200	0.4185	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.540	3.542	-0.002	94	70985	0.4276	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	157972	7.58	
12 Vinyl chloride	62	3.697	3.697	0.0	98	33420	0.3936	
14 Butane	43	3.778	3.778	0.0	84	49869	0.4189	
13 Butadiene	54	3.778	3.780	-0.002	66	22155	0.3775	
15 Bromomethane	94	4.080	4.084	-0.004	91	35816	0.3907	
16 Chloroethane	64	4.215	4.217	-0.002	90	17042	0.3955	
17 Ethanol	31	4.312	4.321	-0.009	98	62557	2.51	
18 Vinyl bromide	106	4.500	4.503	-0.003	97	32370	0.3907	
19 2-Methylbutane	43	4.543	4.545	-0.002	87	35327	0.4051	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	114815	0.4156	
20 Acrolein	56	4.770	4.773	-0.003	94	13234	0.5026	
22 Acetonitrile	40	4.840	4.845	-0.005	92	13491	0.5695	
23 Acetone	58	4.878	4.892	-0.014	90	107631	2.85	
25 Pentane	72	4.964	4.970	-0.006	94	6522	0.3990	
24 Isopropyl alcohol	45	4.969	4.978	-0.009	58	56495	0.5818	
26 Ethyl ether	31	5.131	5.138	-0.007	85	27236	0.4298	
27 1,1-Dichloroethene	96	5.444	5.450	-0.006	96	28770	0.3885	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	63898	0.4650	
28 Acrylonitrile	53	5.563	5.569	-0.006	56	18798	0.4309	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.617	5.622	-0.005	94	68786	0.4021	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	30018	0.4219	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	85	33884	0.4034	
33 Carbon disulfide	76	5.951	5.953	-0.002	99	104648	0.4061	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	35287	0.3888	
35 2-Methylpentane	43	6.609	6.615	-0.006	89	65230	0.3978	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	97791	0.4327	
37 1,1-Dichloroethane	63	7.024	7.031	-0.007	98	62874	0.4093	
38 Vinyl acetate	43	7.132	7.140	-0.008	99	66053	0.4361	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	91	27657	0.6786	
40 Hexane	56	7.596	7.599	-0.003	73	26715	0.4034	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	95	34062	0.4020	
42 Ethyl acetate	43	8.210	8.212	-0.002	96	55497	0.4186	
43 Chloroform	83	8.361	8.364	-0.003	86	88264	0.4137	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	82	26675	0.4176	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	94	100749	0.4163	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	62733	0.4215	
47 n-Butanol	31	9.979	9.973	0.006	79	11427	0.5048	
49 Cyclohexane	69	9.995	10.002	-0.007	87	17748	0.3873	
48 Benzene	78	10.006	10.008	-0.002	97	99885	0.4087	
50 Carbon tetrachloride	117	10.028	10.028	0.0	98	87071	0.3709	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	22575	0.3968	
52 Thiophene	84	10.292	10.297	-0.005	94	61797	0.4069	
53 Isooctane	57	10.793	10.797	-0.004	96	153532	0.4070	
54 n-Heptane	71	11.192	11.195	-0.003	85	37765	0.4083	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	75	32660	0.4161	
56 Trichloroethene	130	11.316	11.319	-0.003	92	48024	0.3980	
57 Dibromomethane	93	11.408	11.410	-0.002	95	47176	0.4091	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	95481	0.4154	
59 1,4-Dioxane	88	11.581	11.582	-0.001	84	11580	0.3571	
60 Methyl methacrylate	41	11.656	11.661	-0.005	81	35528	0.3859	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	67377	0.3898	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	58754	0.4082	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	57856	0.4176	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	60240	0.4175	
65 Toluene	91	13.409	13.411	-0.002	94	124698	0.4357	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	96	35409	0.4202	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	107205	0.4312	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	108594	0.4337	
69 2-Hexanone	58	13.883	13.885	-0.002	95	28985	0.4290	
70 n-Octane	85	14.110	14.108	0.002	84	42571	0.4171	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	78847	0.4132	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	97	65478	0.4353	
73 Tetrachloroethene	129	14.563	14.562	0.0	93	49429	0.4054	
74 Chlorobenzene	112	15.441	15.443	-0.002	73	97956	0.4292	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	93439	0.4262	
76 Ethylbenzene	91	15.733	15.733	0.0	99	166497	0.4538	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	130640	0.4442	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	267837	0.9283	
81 n-Nonane	57	16.310	16.313	-0.003	81	66889	0.4178	
79 Bromoform	173	16.342	16.344	-0.002	94	70763	0.4126	
80 Styrene	104	16.358	16.361	-0.003	97	86970	0.4356	
82 o-Xylene	91	16.417	16.419	-0.002	97	139586	0.4475	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	79958	0.4357	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	29047	0.4343	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	185082	0.4492	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	45961	0.4268	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	95	44239	0.4310	
88 4-Ethyltoluene	105	17.712	17.710	0.002	98	178378	0.4520	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	77917	0.4358	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	82	62581	0.4240	
91 n-Decane	57	18.078	18.081	-0.003	96	76277	0.4505	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	161569	0.4486	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	148483	0.4529	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	203410	0.4598	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	92265	0.4328	
96 Benzyl chloride	91	18.591	18.591	0.0	97	113406	0.4206	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	89267	0.4256	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	170267	0.4556	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	126221	0.4536	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	116110	0.4516	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	127267	0.4440	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	88427	0.4353	
103 Indene	116	19.097	19.098	-0.001	86	120788	0.4438	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	152505	0.4608	
106 Undecane	57	19.416	19.416	0.0	90	52564	0.3517	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	95	145137	0.4522	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	129088	0.4063	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	81098	0.3905	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	99907	0.3766	
110 Dodecane	57	20.473	20.473	0.0	93	41037	0.3658	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	47531	0.3505	
112 Naphthalene	128	20.801	20.803	-0.002	98	81568	0.3435	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	59699	0.3475	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	84	77316	0.4364	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	36488	0.3604	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	95	22232	1.98	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	94	20319	2.08	
A 118 C6 Range	1	7.590	7.536 - 7.644		0	413651	0.4978	
A 119 Toluene Range	1	13.416	13.360 - 13.457		0	315280	0.4349	
A 120 C8 Range	1	14.107	14.061 - 14.169		0	362184	0.4174	
S 124 Xylenes, Total	100				0		1.38	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date: 28-Jan-2014 16:27:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L4

Lab Sample ID:

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

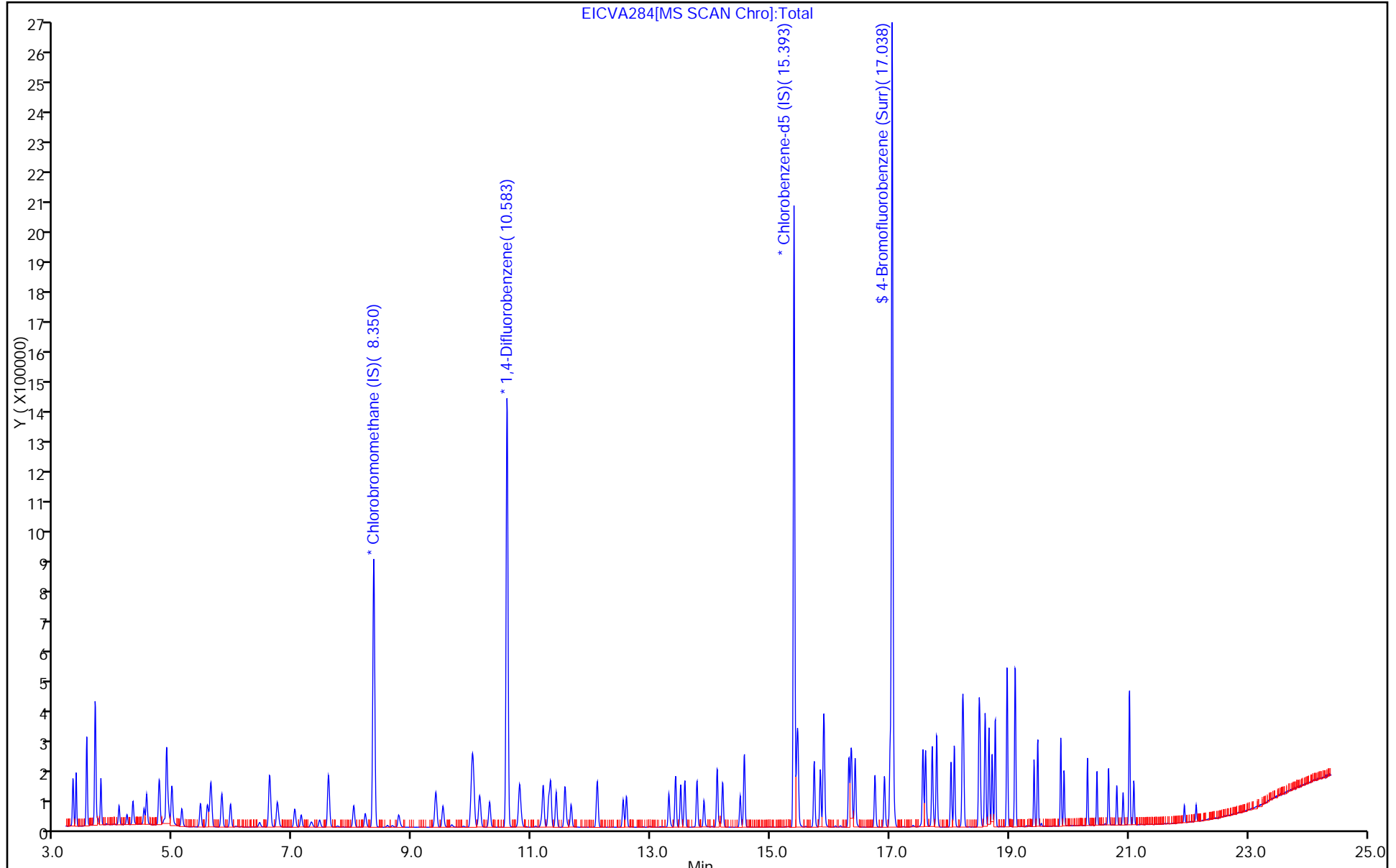
Dil. Factor: 1.0000

ALS Bottle#: 32

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date: 28-Jan-2014 16:27:30 Instrument ID: ME

Lims ID: IC L4 Lab Sample ID:

Client ID:

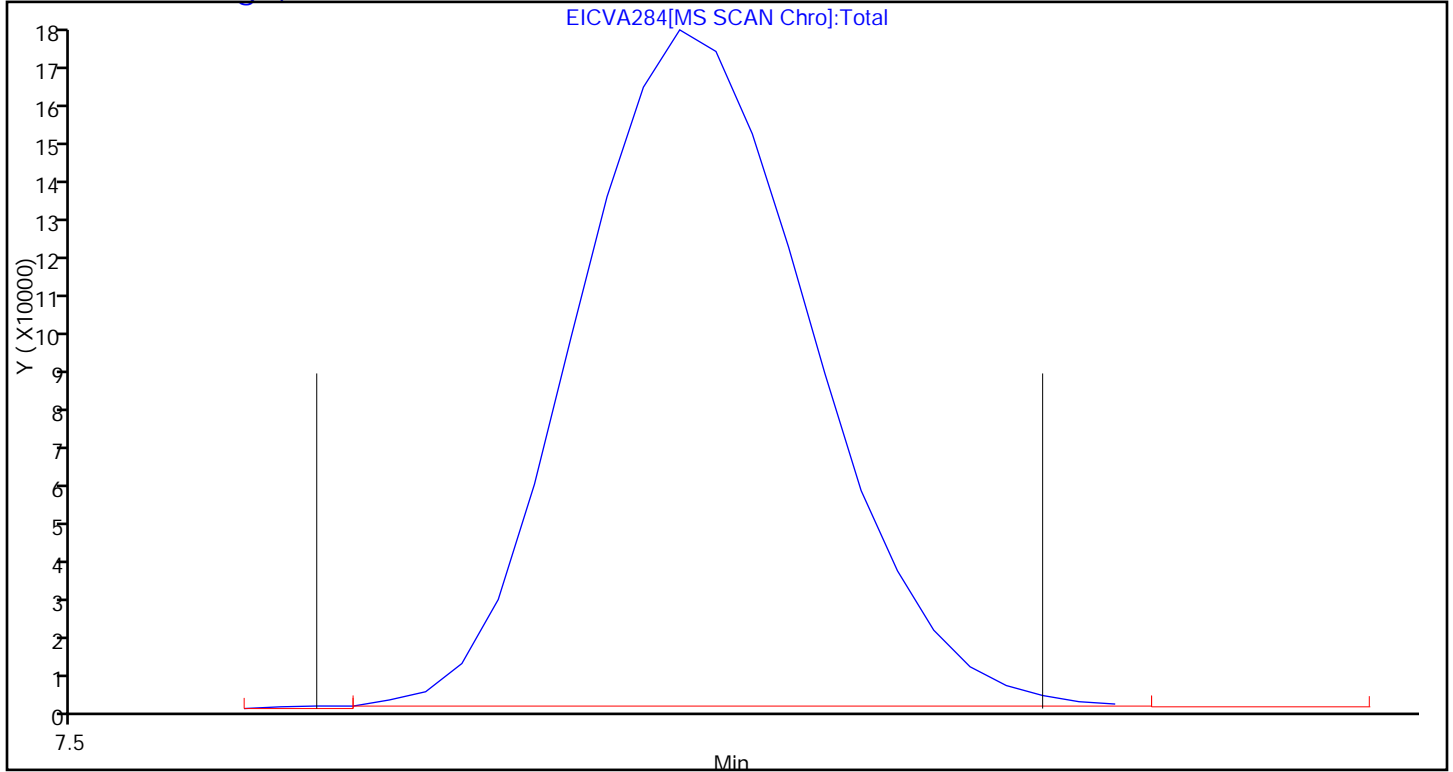
Operator ID: 7126 ALS Bottle#: 32 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date: 28-Jan-2014 16:27:30 Instrument ID: ME

Lims ID: IC L4 Lab Sample ID:

Client ID:

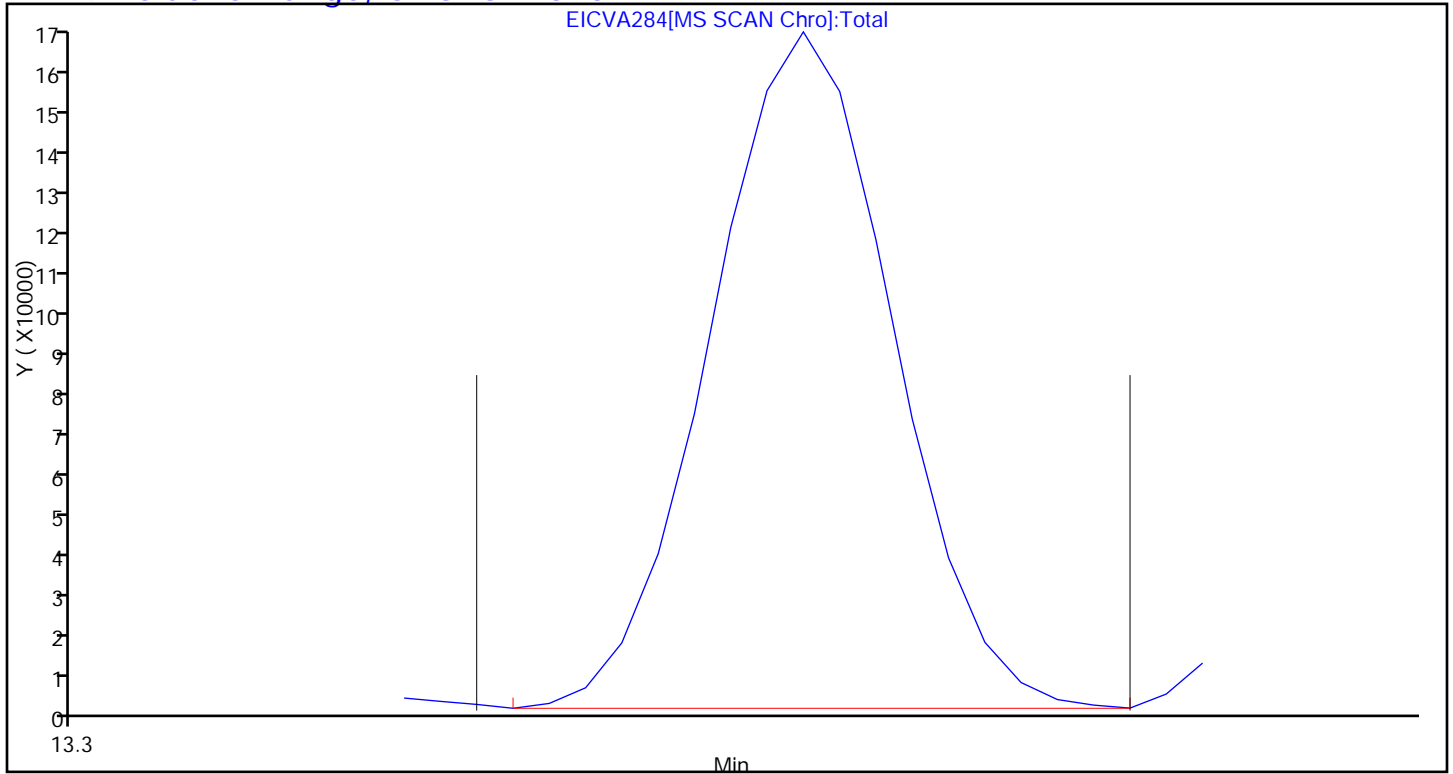
Operator ID: 7126 ALS Bottle#: 32 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA284.D

Injection Date: 28-Jan-2014 16:27:30 Instrument ID: ME

Lims ID: IC L4 Lab Sample ID:

Client ID:

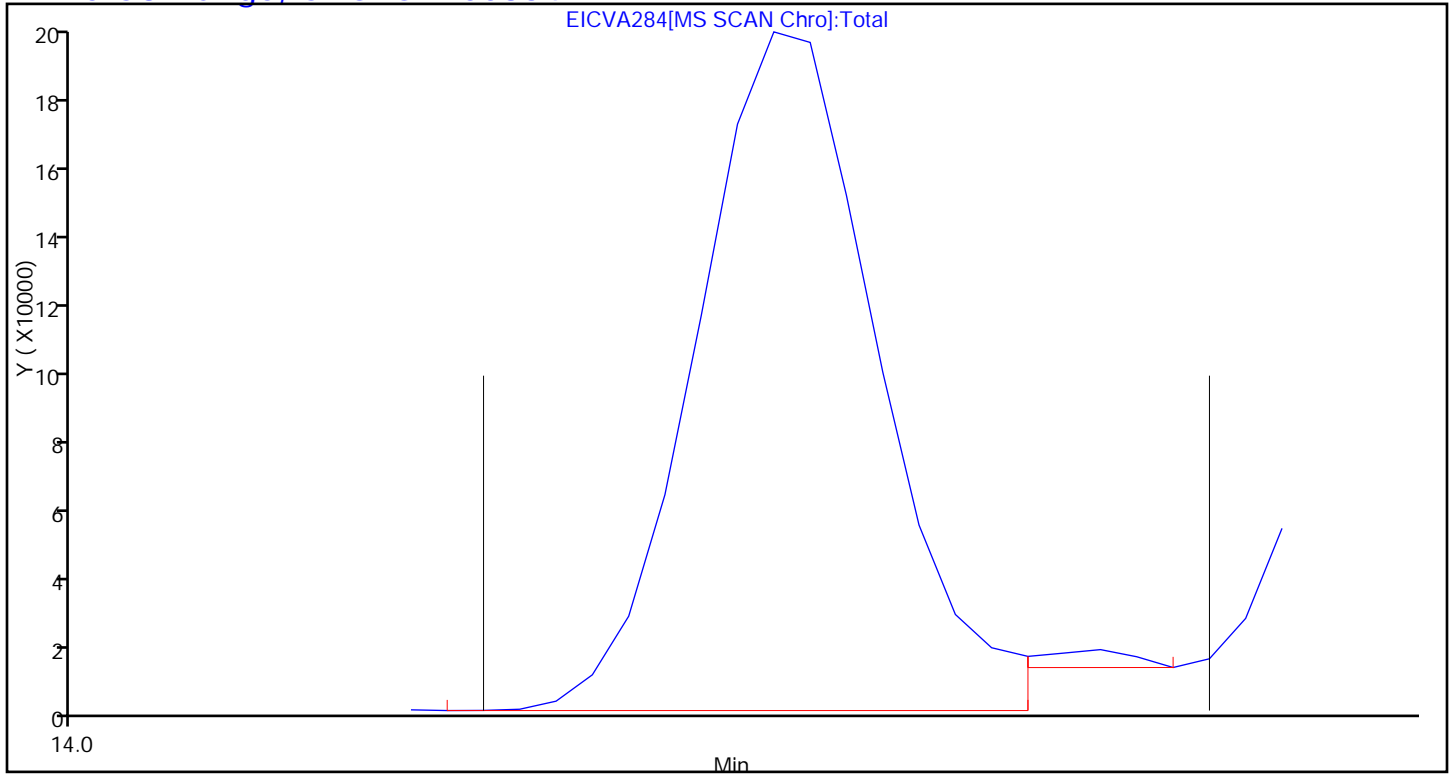
Operator ID: 7126 ALS Bottle#: 32 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D
 Lims ID: IC L5 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 28-Jan-2014 17:13:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,5,,IC L5
 Misc. Info.: E012814I,TO155,140-0000390-006
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:08:29 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 09:13:11

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	84	247139	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1199247	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	91	1062140	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	942369	4.05	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	37150	1.07	
7 Propene	41	3.314	3.315	-0.001	95	61736	0.99	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	295379	1.08	
9 Chloromethane	52	3.535	3.535	0.0	98	24405	1.12	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	96	171444	1.04	
11 Acetaldehyde	44	3.681	3.684	-0.003	91	103208	4.99	
12 Vinyl chloride	62	3.697	3.697	0.0	99	93203	1.11	
14 Butane	43	3.778	3.778	0.0	82	123713	1.05	
13 Butadiene	54	3.778	3.780	-0.002	72	60850	1.04	
15 Bromomethane	94	4.085	4.084	0.001	97	99292	1.09	
16 Chloroethane	64	4.215	4.217	-0.002	93	45291	1.06	
17 Ethanol	31	4.317	4.321	-0.004	99	126078	5.10	
18 Vinyl bromide	106	4.500	4.503	-0.003	95	91400	1.11	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	90656	1.05	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	99	311586	1.14	
20 Acrolein	56	4.770	4.773	-0.003	93	19559	0.7483	
22 Acetonitrile	40	4.840	4.845	-0.005	97	18458	0.7850	
23 Acetone	58	4.889	4.892	-0.003	84	39975	1.07	
25 Pentane	72	4.970	4.970	0.0	96	17267	1.06	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	94908	0.9848	
26 Ethyl ether	31	5.137	5.138	-0.001	87	50710	0.8062	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	80397	1.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	140660	1.03	
28 Acrylonitrile	53	5.563	5.569	-0.006	86	33819	0.7810	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.622	5.622	0.0	95	181706	1.07	
31 Methylene Chloride	84	5.800	5.802	-0.002	87	75254	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	86	83663	1.00	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	287781	1.13	
34 trans-1,2-Dichloroethene	96	6.598	6.605	-0.007	97	96543	1.07	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	169418	1.04	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	94	192678	0.8590	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	152019	1.00	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	118843	0.7905	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	83	31136	0.7697	
40 Hexane	56	7.596	7.599	-0.003	82	67857	1.03	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	88092	1.05	
42 Ethyl acetate	43	8.205	8.212	-0.007	96	111136	0.8445	
43 Chloroform	83	8.361	8.364	-0.003	96	220429	1.04	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	84	53359	0.8416	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	96	249467	1.04	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	99	138557	0.9427	
47 n-Butanol	31	9.968	9.973	-0.005	72	20371	0.9112	
49 Cyclohexane	69	10.001	10.002	-0.001	93	46713	1.03	
48 Benzene	78	10.006	10.008	-0.002	97	216710	0.8979	
50 Carbon tetrachloride	117	10.022	10.028	-0.006	96	253299	1.09	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	86	57321	1.02	
52 Thiophene	84	10.297	10.297	0.0	95	140209	0.9349	
53 Isooctane	57	10.793	10.797	-0.004	96	379952	1.02	
54 n-Heptane	71	11.192	11.195	-0.003	86	92876	1.02	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	77	68459	0.8831	
56 Trichloroethene	130	11.316	11.319	-0.003	93	120461	1.01	
57 Dibromomethane	93	11.408	11.410	-0.002	95	109213	0.9589	
58 Dichlorobromomethane	83	11.554	11.558	-0.004	98	222900	0.9820	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	32148	1.00	
60 Methyl methacrylate	41	11.661	11.661	0.0	85	75332	0.8286	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	172558	1.01	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	95	104204	0.7332	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	123737	0.9043	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	122686	0.8554	
65 Toluene	91	13.409	13.411	-0.002	93	244760	0.8602	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	72923	0.8705	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	220271	0.8913	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	220722	0.8867	
69 2-Hexanone	58	13.883	13.885	-0.002	94	53001	0.7892	
70 n-Octane	85	14.104	14.108	-0.004	84	97549	0.9614	
71 Chlorodibromomethane	129	14.196	14.199	-0.003	96	181799	0.9584	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	131864	0.8819	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	119291	0.9843	
74 Chlorobenzene	112	15.441	15.443	-0.002	75	203827	0.8983	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	197875	0.9079	
76 Ethylbenzene	91	15.733	15.733	0.0	99	304843	0.8357	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	246558	0.8434	
78 m-Xylene & p-Xylene	91	15.894	15.896	-0.002	99	487782	1.70	
81 n-Nonane	57	16.310	16.313	-0.003	82	133167	0.8367	
79 Bromoform	173	16.342	16.344	-0.002	94	158429	0.9291	
80 Styrene	104	16.358	16.361	-0.003	98	161753	0.8149	
82 o-Xylene	91	16.418	16.419	-0.001	97	256574	0.8275	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	153940	0.8438	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	55060	0.8281	
85 Isopropylbenzene	105	17.005	17.006	-0.001	97	335923	0.8202	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	84931	0.7934	
87 2-Chlorotoluene	126	17.598	17.600	-0.002	96	84513	0.8283	
88 4-Ethyltoluene	105	17.712	17.710	0.002	97	327482	0.8348	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	145398	0.8180	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	83	115910	0.7899	
91 n-Decane	57	18.078	18.081	-0.003	95	118873	0.7062	
92 tert-Butylbenzene	119	18.219	18.219	0.0	88	301418	0.8419	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	275983	0.8468	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	372205	0.8463	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	171813	0.8107	
96 Benzyl chloride	91	18.591	18.591	0.0	97	219657	0.8194	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	168471	0.8080	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	303377	0.8166	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	99	230550	0.8335	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	210427	0.8233	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	238195	0.8360	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	82	161929	0.8019	
103 Indene	116	19.098	19.098	0.0	86	224004	0.8279	
104 n-Butylbenzene	91	19.103	19.103	0.0	95	261092	0.7936	
106 Undecane	57	19.416	19.416	0.0	90	110860	0.7461	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	96	253858	0.7956	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	261654	0.8285	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	168329	0.8154	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	217297	0.8240	
110 Dodecane	57	20.473	20.473	0.0	91	116179	1.04	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	107995	0.8011	
112 Naphthalene	128	20.802	20.803	-0.001	98	206421	0.8745	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	154579	0.9052	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	127160	0.7220	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	94	94418	0.9381	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	84076	7.54	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	74269	7.65	
A 118 C6 Range	1	7.596	7.536 -	7.655	0	798122	0.9725	
A 119 Toluene Range	1	13.401	13.360 -	13.457	0	614299	0.8580	
A 120 C8 Range	1	14.107	14.061 -	14.190	0	825217	0.9630	
S 124 Xylenes, Total	100				0		2.53	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date: 28-Jan-2014 17:13:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L5

Lab Sample ID:

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

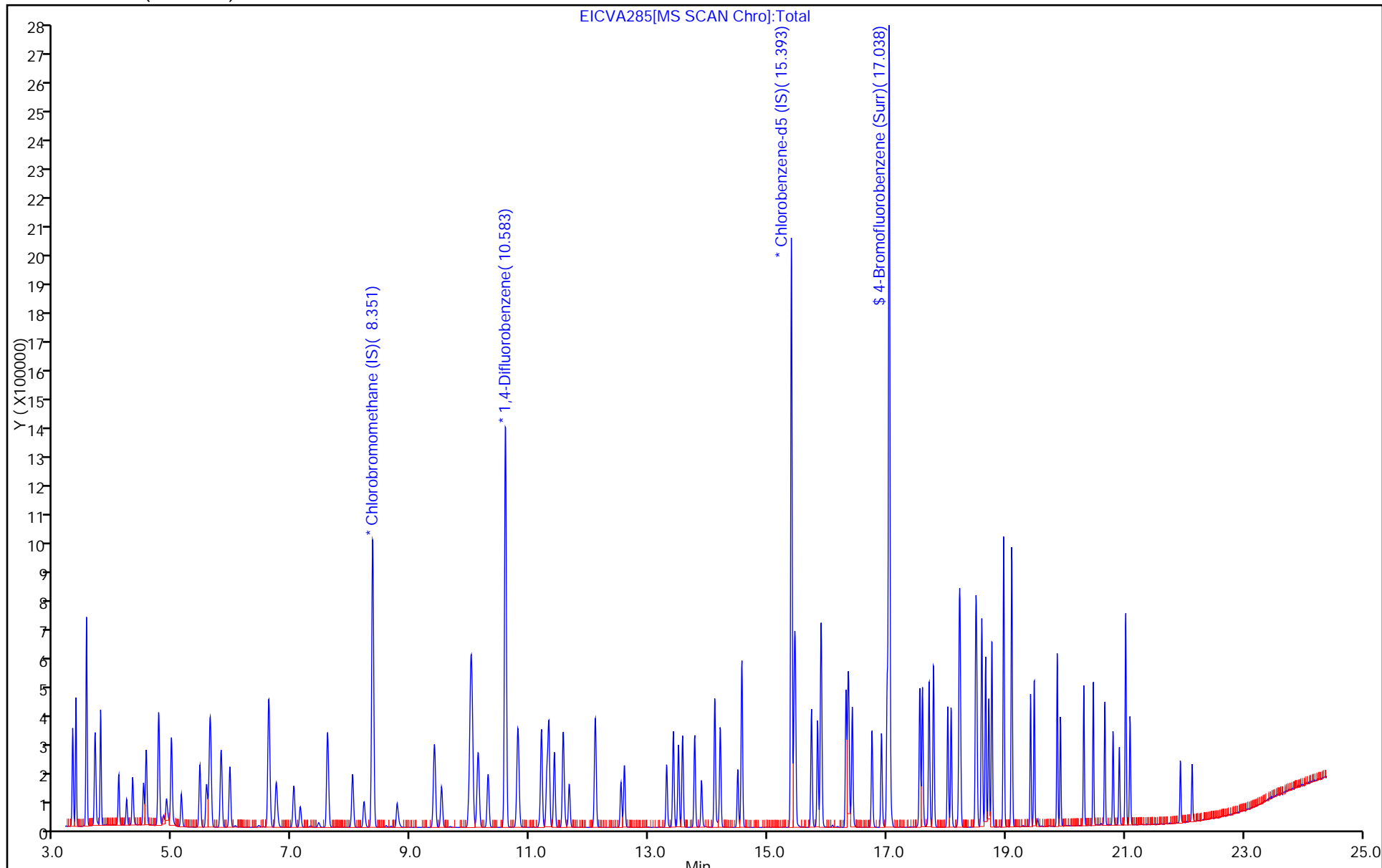
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date: 28-Jan-2014 17:13:30 Instrument ID: ME

Lims ID: IC L5 Lab Sample ID:

Client ID:

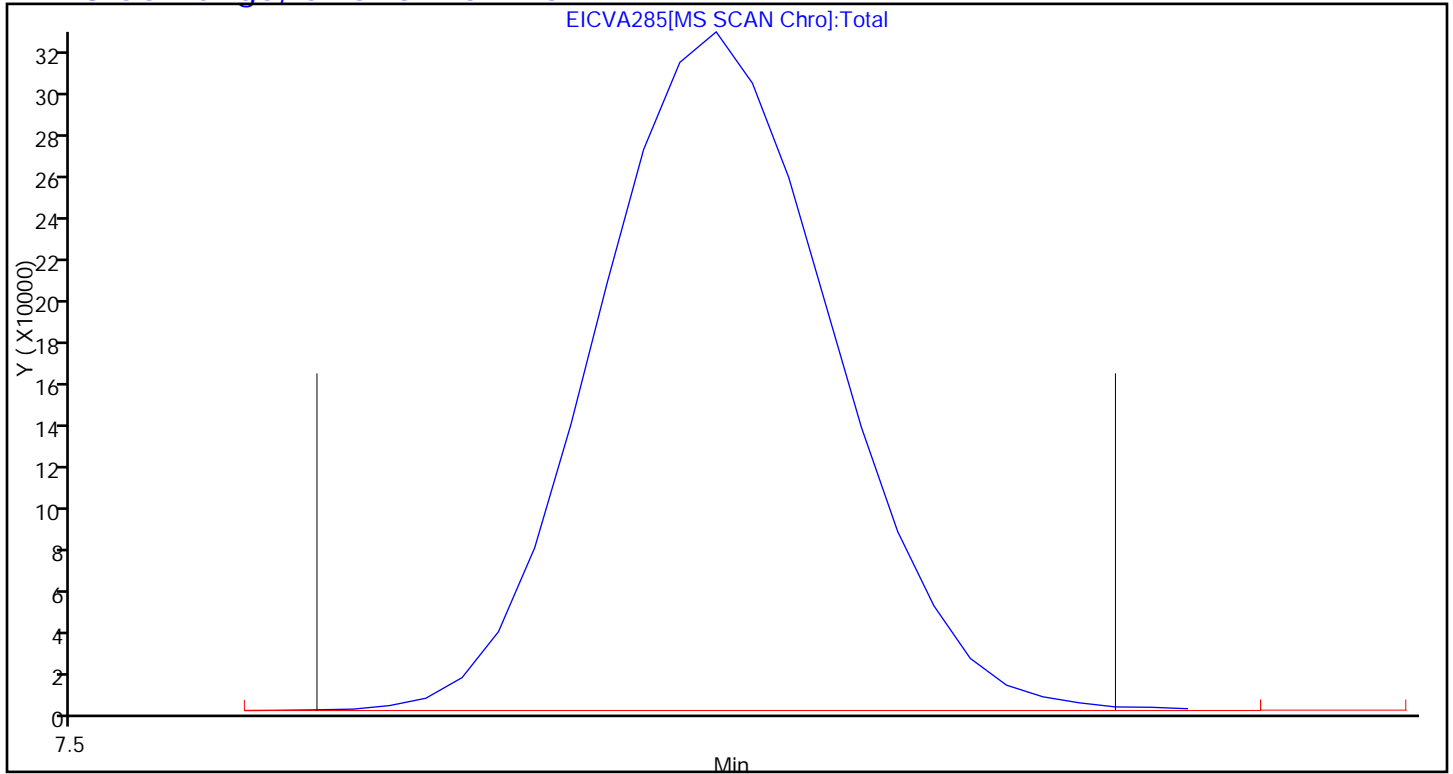
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date: 28-Jan-2014 17:13:30 Instrument ID: ME

Lims ID: IC L5 Lab Sample ID:

Client ID:

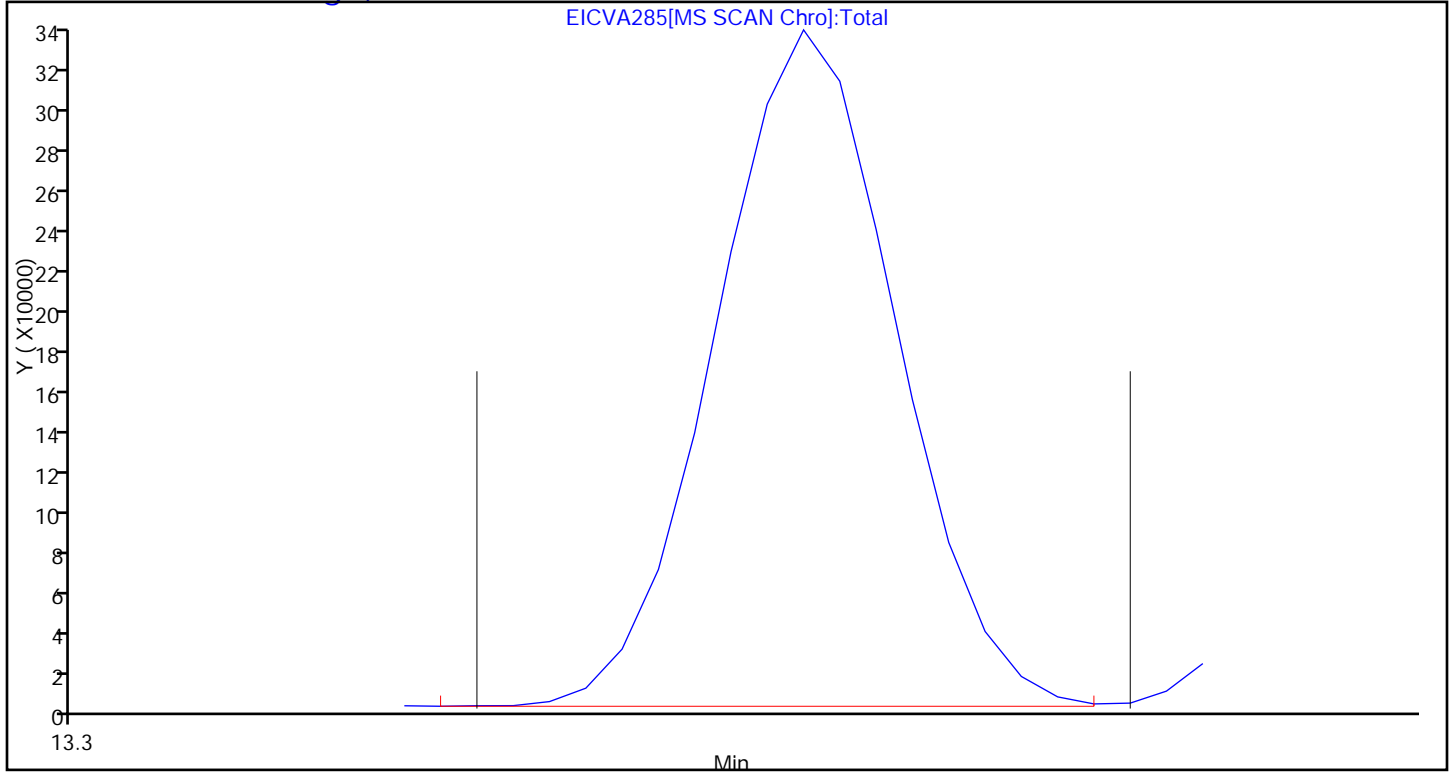
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA285.D

Injection Date: 28-Jan-2014 17:13:30 Instrument ID: ME

Lims ID: IC L5 Lab Sample ID:

Client ID:

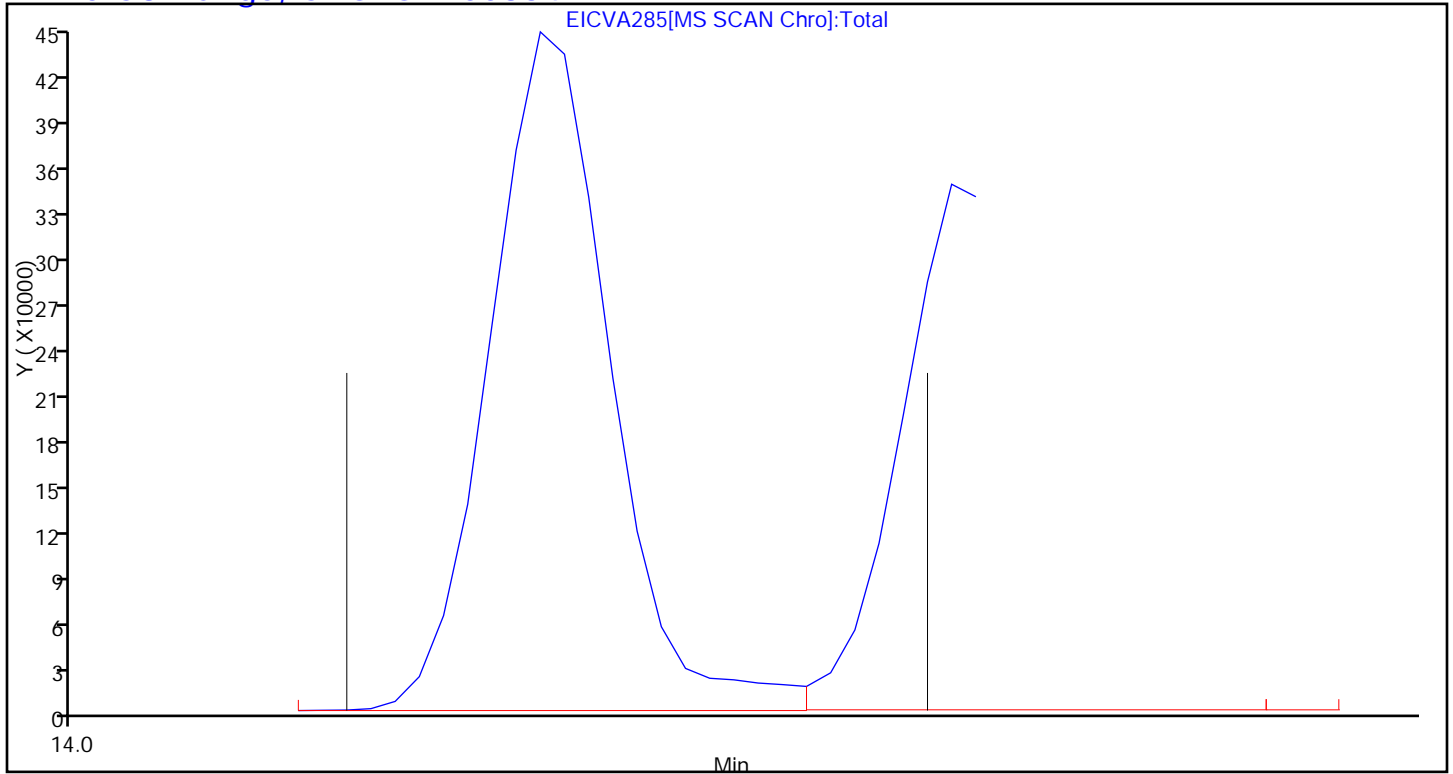
Operator ID: 7126 ALS Bottle#: 3 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D
 Lims ID: ICIS L6 Lab Sample ID:
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 28-Jan-2014 18:10:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,6,,IC L6
 Misc. Info.: E012814I,TO155,140-0000390-007
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:08:22 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 09:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.355	-0.004	86	236087	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1075088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	88	950258	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	85	861304	4.14	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	68063	2.06	
7 Propene	41	3.314	3.315	-0.001	93	114145	1.92	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	554522	2.12	
9 Chloromethane	52	3.535	3.535	0.0	98	43956	2.11	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	94	354553	2.25	
11 Acetaldehyde	44	3.681	3.684	-0.003	92	215750	10.9	
12 Vinyl chloride	62	3.697	3.697	0.0	99	172758	2.15	
14 Butane	43	3.778	3.778	0.0	82	227224	2.01	
13 Butadiene	54	3.778	3.780	-0.002	74	116094	2.09	
15 Bromomethane	94	4.080	4.084	-0.004	98	179909	2.07	
16 Chloroethane	64	4.215	4.217	-0.002	93	84403	2.07	
17 Ethanol	31	4.317	4.321	-0.004	99	247839	10.5	
18 Vinyl bromide	106	4.500	4.503	-0.003	96	166421	2.12	
19 2-Methylbutane	43	4.544	4.545	-0.001	87	165590	2.00	
21 Trichlorofluoromethane	101	4.754	4.757	-0.003	100	548443	2.09	
20 Acrolein	56	4.770	4.773	-0.003	81	41767	1.67	
22 Acetonitrile	40	4.840	4.845	-0.005	96	41667	1.85	
23 Acetone	58	4.883	4.892	-0.009	83	78923	2.21	
25 Pentane	72	4.970	4.970	0.0	96	31097	2.01	
24 Isopropyl alcohol	45	4.975	4.978	-0.003	73	188211	2.04	
26 Ethyl ether	31	5.131	5.138	-0.007	89	105666	1.76	
27 1,1-Dichloroethene	96	5.449	5.450	-0.001	96	146870	2.09	
29 2-Methyl-2-propanol	59	5.557	5.565	-0.008	95	287661	2.21	
28 Acrylonitrile	53	5.563	5.569	-0.006	92	74351	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.617	5.622	-0.005	94	330564	2.04	
31 Methylene Chloride	84	5.800	5.802	-0.002	88	136091	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.811	5.814	-0.003	87	161765	2.03	
33 Carbon disulfide	76	5.951	5.953	-0.002	100	515499	2.11	
34 trans-1,2-Dichloroethene	96	6.603	6.605	-0.002	97	175247	2.04	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	309719	1.99	
36 Methyl tert-butyl ether	73	6.727	6.736	-0.009	94	396378	1.85	
37 1,1-Dichloroethane	63	7.029	7.031	-0.002	99	287318	1.97	
38 Vinyl acetate	43	7.137	7.140	-0.003	99	252552	1.76	
39 2-Butanone (MEK)	72	7.585	7.593	-0.008	96	62183	1.61	
40 Hexane	56	7.596	7.599	-0.003	82	124192	1.98	
41 cis-1,2-Dichloroethene	96	8.016	8.018	-0.002	96	162048	2.02	
42 Ethyl acetate	43	8.205	8.212	-0.007	98	226825	1.80	
43 Chloroform	83	8.361	8.364	-0.003	97	399557	1.98	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	108657	1.79	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	458125	2.00	
46 1,2-Dichloroethane	62	9.510	9.514	-0.004	97	265342	2.01	
47 n-Butanol	31	9.963	9.973	-0.010	78	46083	2.30	
49 Cyclohexane	69	10.001	10.002	-0.001	86	87129	2.15	
48 Benzene	78	10.006	10.008	-0.002	97	420219	1.94	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	456074	2.19	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	105034	2.09	
52 Thiophene	84	10.297	10.297	0.0	95	269460	2.00	
53 Isooctane	57	10.793	10.797	-0.004	96	698528	2.09	
54 n-Heptane	71	11.192	11.195	-0.003	86	173660	2.12	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	79	134694	1.94	
56 Trichloroethene	130	11.316	11.319	-0.003	93	223221	2.09	
57 Dibromomethane	93	11.408	11.410	-0.002	95	208967	2.05	
58 Dichlorobromomethane	83	11.559	11.558	0.001	98	428361	2.11	
59 1,4-Dioxane	88	11.570	11.582	-0.012	89	68192	2.38	
60 Methyl methacrylate	41	11.656	11.661	-0.005	85	156614	1.92	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	315932	2.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	238205	1.87	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	252459	2.06	
64 trans-1,3-Dichloropropene	75	13.295	13.298	-0.003	97	260306	2.03	
65 Toluene	91	13.409	13.411	-0.002	94	492620	1.94	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	97	145220	1.94	
67 2-Methylthiophene	97	13.565	13.567	-0.002	98	437193	1.98	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	443539	1.99	
69 2-Hexanone	58	13.878	13.885	-0.007	94	122157	2.03	
70 n-Octane	85	14.104	14.108	-0.004	84	185816	2.05	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	357310	2.11	
72 Ethylene Dibromide	107	14.492	14.494	-0.002	98	272225	2.04	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	222040	2.05	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	396976	1.96	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	376557	1.93	
76 Ethylbenzene	91	15.733	15.733	0.0	99	628778	1.93	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	510954	1.95	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.002	98	999181	3.89	
81 n-Nonane	57	16.310	16.313	-0.003	83	272283	1.91	
79 Bromoform	173	16.342	16.344	-0.002	95	332962	2.18	
80 Styrene	104	16.358	16.361	-0.003	98	352561	1.99	
82 o-Xylene	91	16.418	16.419	-0.001	98	526745	1.90	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.005	98	322484	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	96	114493	1.92	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	699905	1.91	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	183850	1.92	
87 2-Chlorotoluene	126	17.599	17.600	-0.002	96	176169	1.93	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	675824	1.93	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	310537	1.95	
90 Alpha Methyl Styrene	118	18.025	18.024	0.0	83	269227	2.05	
91 n-Decane	57	18.078	18.081	-0.003	95	289001	1.92	
92 tert-Butylbenzene	119	18.219	18.219	0.0	87	626982	1.96	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	96	586299	2.01	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	799188	2.03	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	373457	1.97	
96 Benzyl chloride	91	18.591	18.591	0.0	96	521420	2.17	
97 1,4-Dichlorobenzene	146	18.601	18.602	-0.001	91	367119	1.97	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	696850	2.10	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	505951	2.04	
100 Butylcyclohexane	83	18.769	18.769	0.0	94	447390	1.96	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	511506	2.01	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	356608	1.97	
103 Indene	116	19.098	19.098	0.0	86	508039	2.10	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	618784	2.10	
106 Undecane	57	19.416	19.416	0.0	90	267950	2.02	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	95	601075	2.11	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	620163	2.19	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	397401	2.15	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	513080	2.17	
110 Dodecane	57	20.473	20.473	0.0	91	266531	2.67	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	93	254490	2.11	
112 Naphthalene	128	20.802	20.803	-0.001	98	506405	2.40	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	376890	2.47	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	303483	1.93	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	226991	2.52	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210283	21.1	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	98	181928	20.9	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	1486536	2.02	
A 119 Toluene Range	1	13.406	13.360 -	13.457	0	1245649	1.94	
A 120 C8 Range	1	14.109	14.056 -	14.153	0	1578746	2.06	
S 124 Xylenes, Total	100				0		5.79	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date: 28-Jan-2014 18:10:30

Instrument ID: ME

Operator ID: 7126

Lims ID: ICIS L6

Lab Sample ID:

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

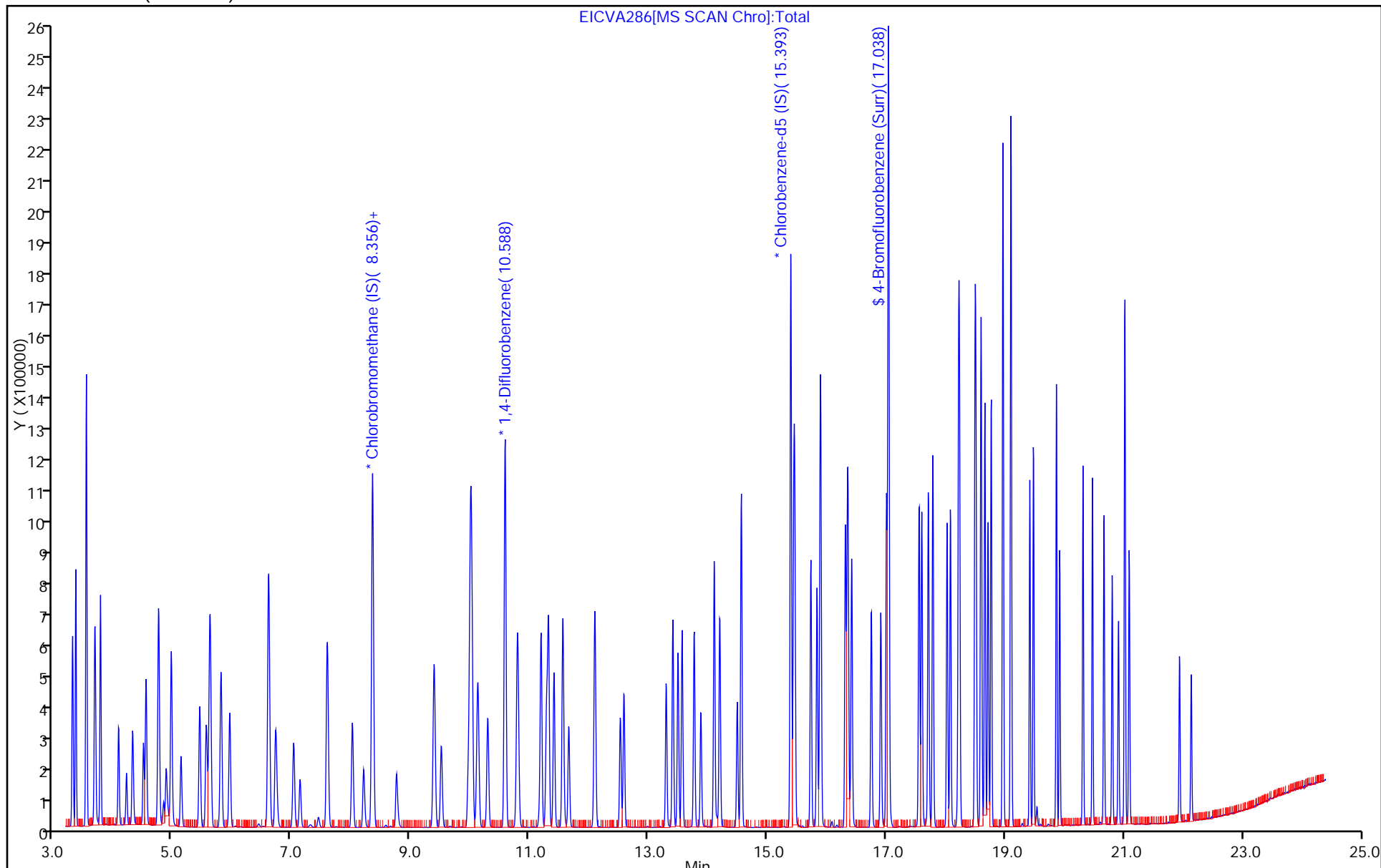
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date: 28-Jan-2014 18:10:30 Instrument ID: ME

Lims ID: ICIS L6 Lab Sample ID:

Client ID:

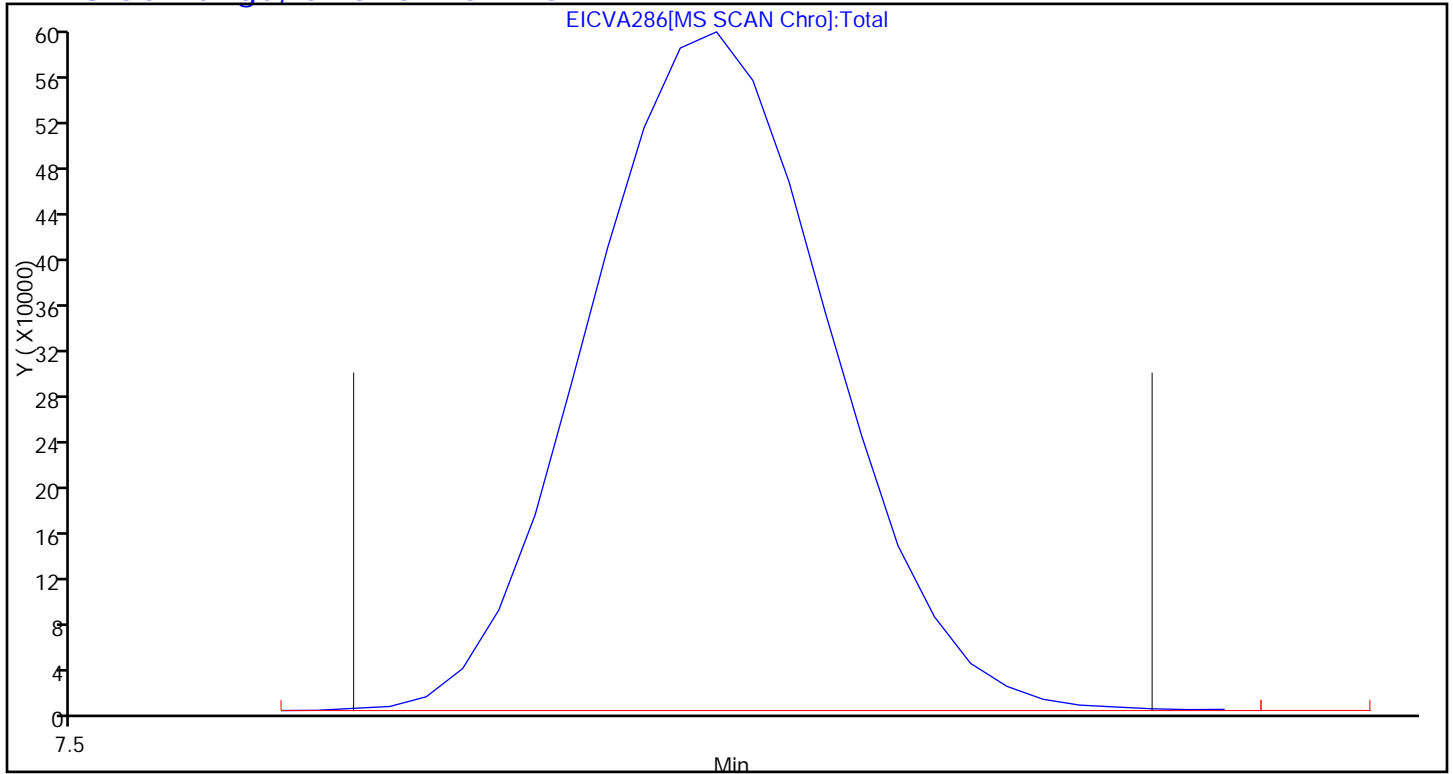
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date: 28-Jan-2014 18:10:30 Instrument ID: ME

Lims ID: ICIS L6 Lab Sample ID:

Client ID:

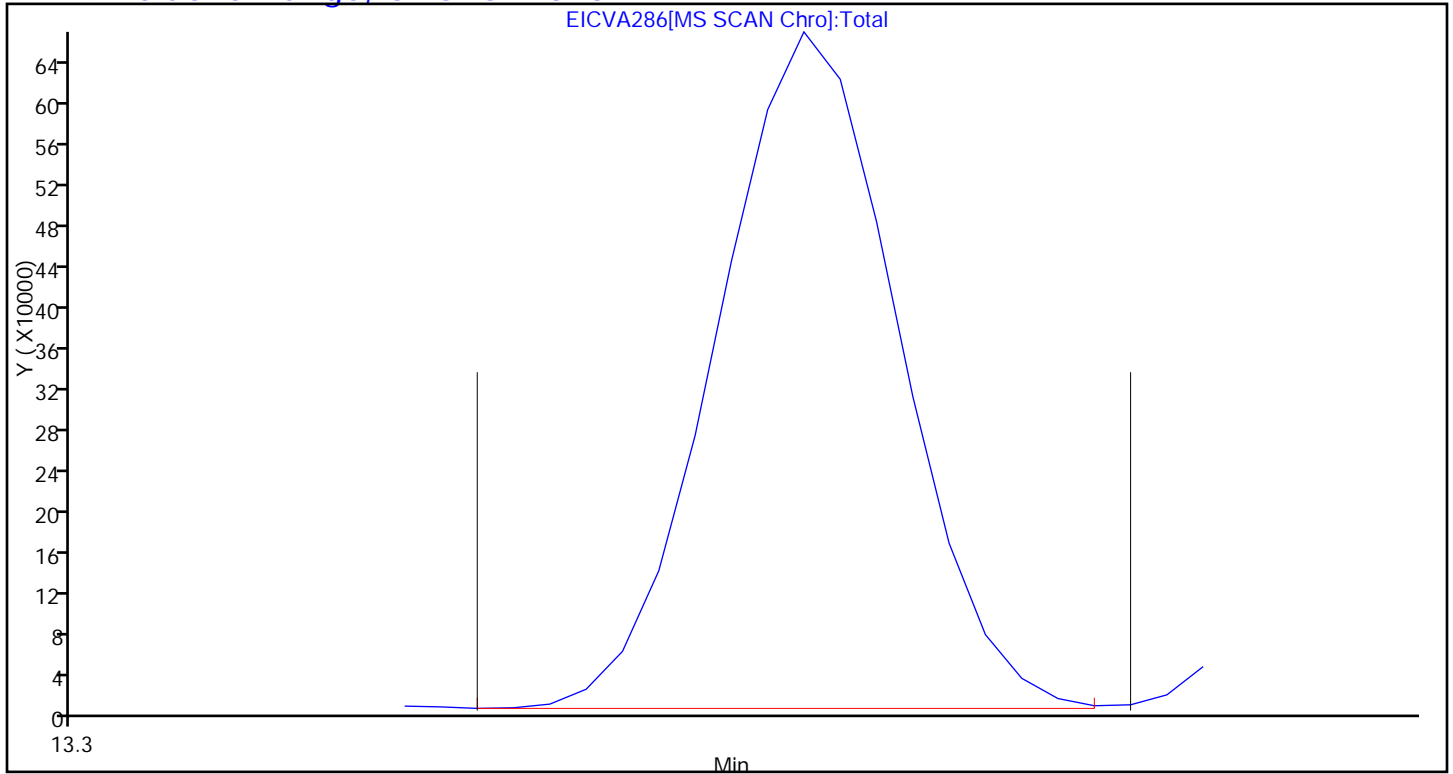
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA286.D

Injection Date: 28-Jan-2014 18:10:30 Instrument ID: ME

Lims ID: ICIS L6 Lab Sample ID:

Client ID:

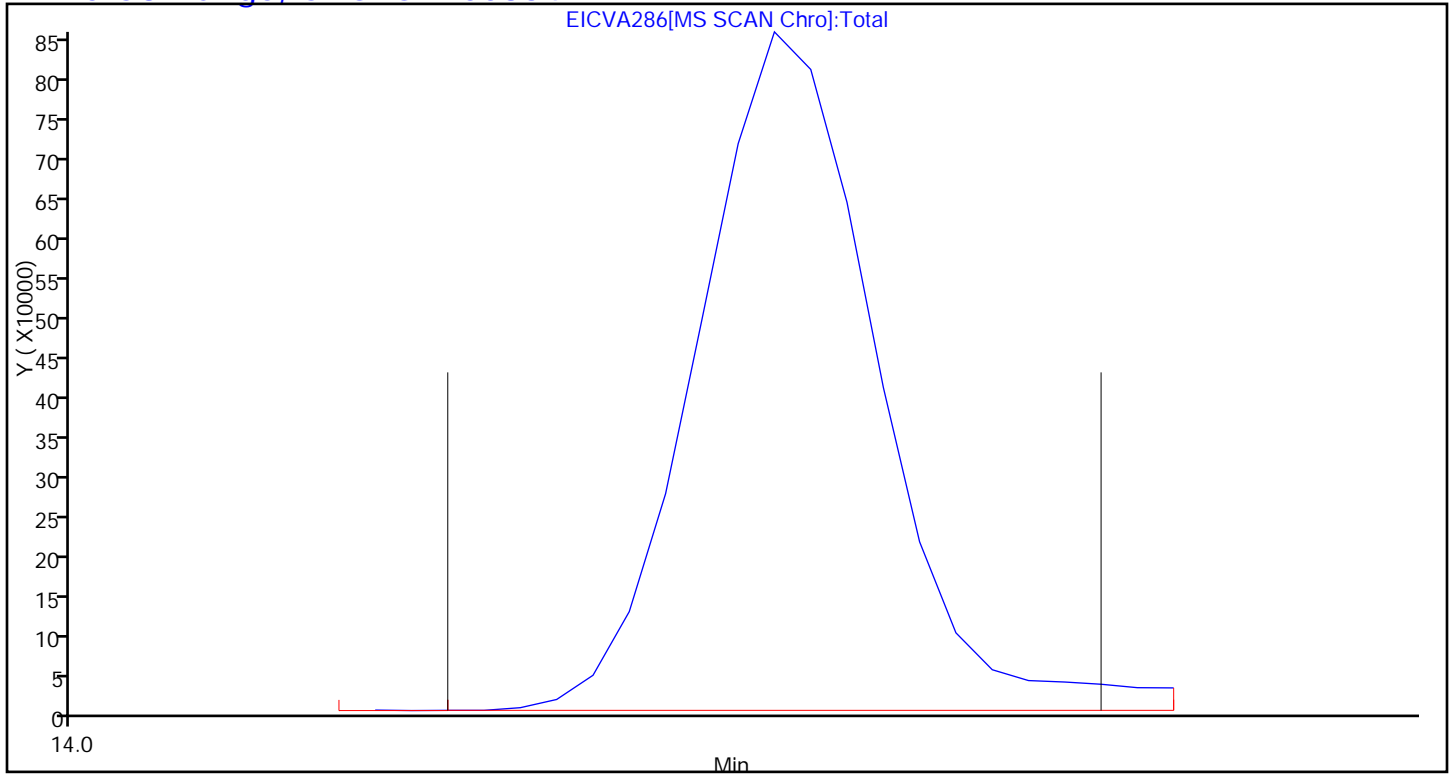
Operator ID: 7126 ALS Bottle#: 4 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D
 Lims ID: IC L7 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 28-Jan-2014 18:55:30 ALS Bottle#: 5 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,6,,IC L7
 Misc. Info.: E012814I,TO155,140-0000390-008
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:08:15 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	76	260250	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	96	1298209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	71	1161494	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	84	1025754	4.03	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	94	128795	3.53	
7 Propene	41	3.314	3.315	-0.001	88	220842	3.37	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	99	1072689	3.73	
9 Chloromethane	52	3.535	3.535	0.0	55	82967	3.61	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.541	3.542	-0.001	92	674873	3.89	
11 Acetaldehyde	44	3.686	3.684	0.002	90	517951	23.8	
12 Vinyl chloride	62	3.697	3.697	0.0	82	324698	3.66	
14 Butane	43	3.778	3.778	0.0	82	433506	3.48	
13 Butadiene	54	3.778	3.780	-0.002	72	220532	3.60	
15 Bromomethane	94	4.085	4.084	0.001	98	339385	3.54	
16 Chloroethane	64	4.220	4.217	0.003	94	166581	3.70	
17 Ethanol	31	4.328	4.321	0.007	97	513048	19.7	
18 Vinyl bromide	106	4.506	4.503	0.003	97	319160	3.69	
19 2-Methylbutane	43	4.544	4.545	-0.001	88	320949	3.52	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	100	1037971	3.59	
20 Acrolein	56	4.775	4.773	0.002	40	107255	3.90	
22 Acetonitrile	40	4.846	4.845	0.001	97	102195	4.13	
23 Acetone	58	4.889	4.892	-0.003	48	201468	5.11	
25 Pentane	72	4.970	4.970	0.0	96	62277	3.65	
24 Isopropyl alcohol	45	4.980	4.978	0.002	61	391097	3.85	
26 Ethyl ether	31	5.131	5.138	-0.007	89	283608	4.28	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	291183	3.76	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	502758	3.50	
28 Acrylonitrile	53	5.574	5.569	0.005	72	190475	4.18	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.622	5.622	0.0	95	679310	3.80	
31 Methylene Chloride	84	5.805	5.802	0.003	88	276543	3.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	343703	3.91	
33 Carbon disulfide	76	5.956	5.953	0.003	100	980880	3.64	
34 trans-1,2-Dichloroethene	96	6.609	6.605	0.004	98	360098	3.80	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	641400	3.74	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	94	1009711	4.27	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	623979	3.89	
38 Vinyl acetate	43	7.143	7.140	0.003	99	702934	4.44	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	86	154173	3.62	
40 Hexane	56	7.601	7.599	0.002	82	261785	3.78	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	95	349716	3.95	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	580239	4.19	
43 Chloroform	83	8.367	8.364	0.003	93	854972	3.83	
44 Tetrahydrofuran	42	8.755	8.769	-0.014	83	277825	4.16	
45 1,1,1-Trichloroethane	97	9.397	9.394	0.003	95	979113	3.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	99	619039	3.89	
47 n-Butanol	31	9.963	9.973	-0.010	79	82932	3.43	
49 Cyclohexane	69	10.001	10.002	-0.001	76	183311	3.74	
48 Benzene	78	10.011	10.008	0.003	97	1001056	3.83	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	971827	3.87	
51 2,3-Dimethylpentane	71	10.130	10.129	0.001	87	230624	3.79	
52 Thiophene	84	10.297	10.297	0.0	95	644115	3.97	
53 Isooctane	57	10.799	10.797	0.002	97	1512131	3.75	
54 n-Heptane	71	11.198	11.195	0.003	85	387353	3.92	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	81	338092	4.03	
56 Trichloroethene	130	11.322	11.319	0.003	93	496086	3.85	
57 Dibromomethane	93	11.413	11.410	0.003	95	481768	3.91	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	988246	4.02	
59 1,4-Dioxane	88	11.570	11.582	-0.012	36	144702	4.17	
60 Methyl methacrylate	41	11.662	11.661	0.001	84	411179	4.18	
61 Methylcyclohexane	83	12.098	12.099	-0.001	95	689690	3.73	
62 4-Methyl-2-pentanone (MIBK)	43	12.524	12.530	-0.006	95	616474	4.01	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	94	624843	4.22	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	683401	4.36	
65 Toluene	91	13.414	13.411	0.003	94	1262856	4.06	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	83	370593	4.05	
67 2-Methylthiophene	97	13.570	13.567	0.003	96	1121650	4.15	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	1127221	4.14	
69 2-Hexanone	58	13.883	13.885	-0.002	95	326086	4.44	
70 n-Octane	85	14.110	14.108	0.002	84	453833	4.09	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	891640	4.30	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	94	692262	4.23	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	507582	3.83	
74 Chlorobenzene	112	15.442	15.443	-0.001	89	1013557	4.08	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	83	927492	3.89	
76 Ethylbenzene	91	15.733	15.733	0.0	99	1669322	4.18	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	72	1357657	4.25	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	97	2605149	8.31	
81 n-Nonane	57	16.315	16.313	0.002	81	712132	4.09	
79 Bromoform	173	16.348	16.344	0.004	94	882485	4.73	
80 Styrene	104	16.358	16.361	-0.003	89	1001466	4.61	
82 o-Xylene	91	16.418	16.419	-0.001	88	1416222	4.18	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	98	868596	4.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	311616	4.29	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	1874573	4.19	
86 N-Propylbenzene	120	17.555	17.555	0.0	98	520031	4.44	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	57	476591	4.27	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	96	1799083	4.19	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	848809	4.37	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	779384	4.86	
91 n-Decane	57	18.078	18.081	-0.003	93	846104	4.60	
92 tert-Butylbenzene	119	18.219	18.219	0.0	84	1654193	4.23	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	94	1528353	4.29	
95 sec-Butylbenzene	105	18.494	18.494	0.0	96	2075886	4.32	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	97	1016646	4.39	
96 Benzyl chloride	91	18.591	18.591	0.0	96	1420098	4.84	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	89	1006802	4.42	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	1811133	4.46	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	80	1318893	4.36	
100 Butylcyclohexane	83	18.769	18.769	0.0	92	1159846	4.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	88	1363869	4.38	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	81	960245	4.35	
103 Indene	116	19.098	19.098	0.0	85	1373303	4.64	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	1651323	4.59	
106 Undecane	57	19.416	19.416	0.0	89	808471	4.98	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	94	1658826	4.75	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	1720503	4.98	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	1115507	4.94	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	1395159	4.84	
110 Dodecane	57	20.473	20.473	0.0	91	480371	3.94	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	659432	4.47	
112 Naphthalene	128	20.802	20.803	-0.001	98	1232774	4.78	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	827312	4.43	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	849966	4.41	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	462386	4.20	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	265416	21.8	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	99	226940	21.4	
A 118 C6 Range	1	7.601	7.542 -	7.660	0	3269816	3.68	
A 119 Toluene Range	1	13.409	13.360 -	13.468	0	3232136	4.17	
A 120 C8 Range	1	14.104	14.056 -	14.153	0	3858825	4.16	
S 124 Xylenes, Total	100				0		12.5	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date: 28-Jan-2014 18:55:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L7

Lab Sample ID:

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

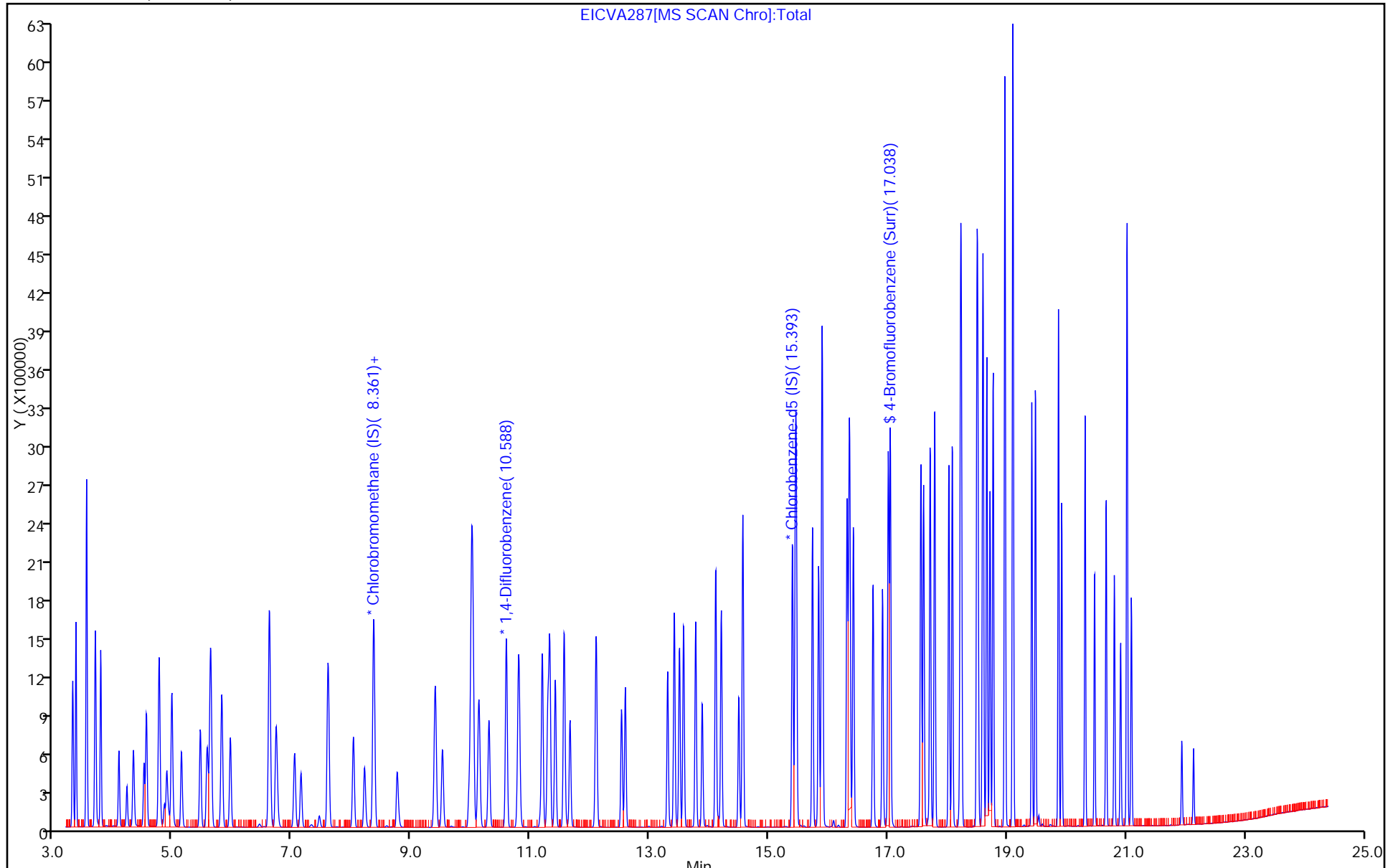
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date: 28-Jan-2014 18:55:30 Instrument ID: ME

Lims ID: IC L7 Lab Sample ID:

Client ID:

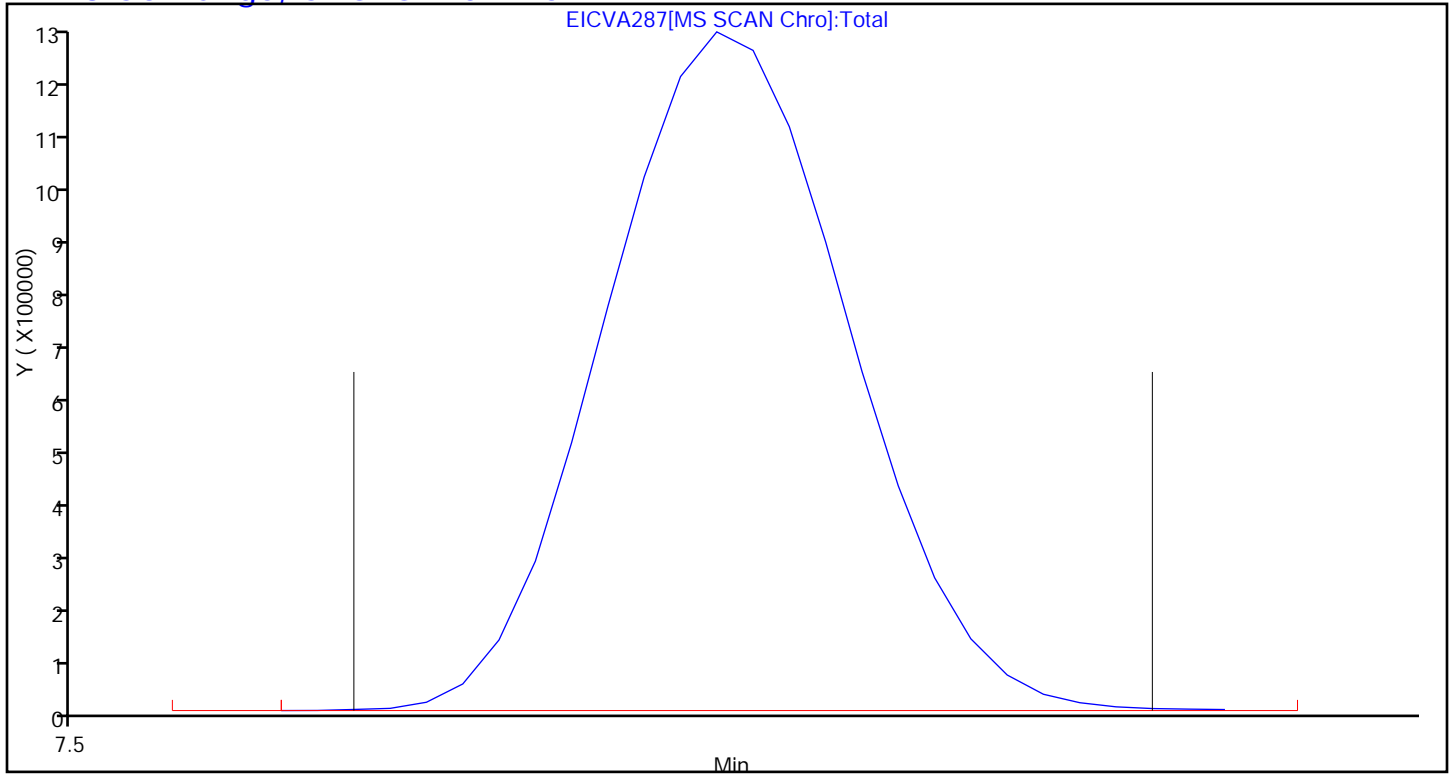
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date: 28-Jan-2014 18:55:30 Instrument ID: ME

Lims ID: IC L7 Lab Sample ID:

Client ID:

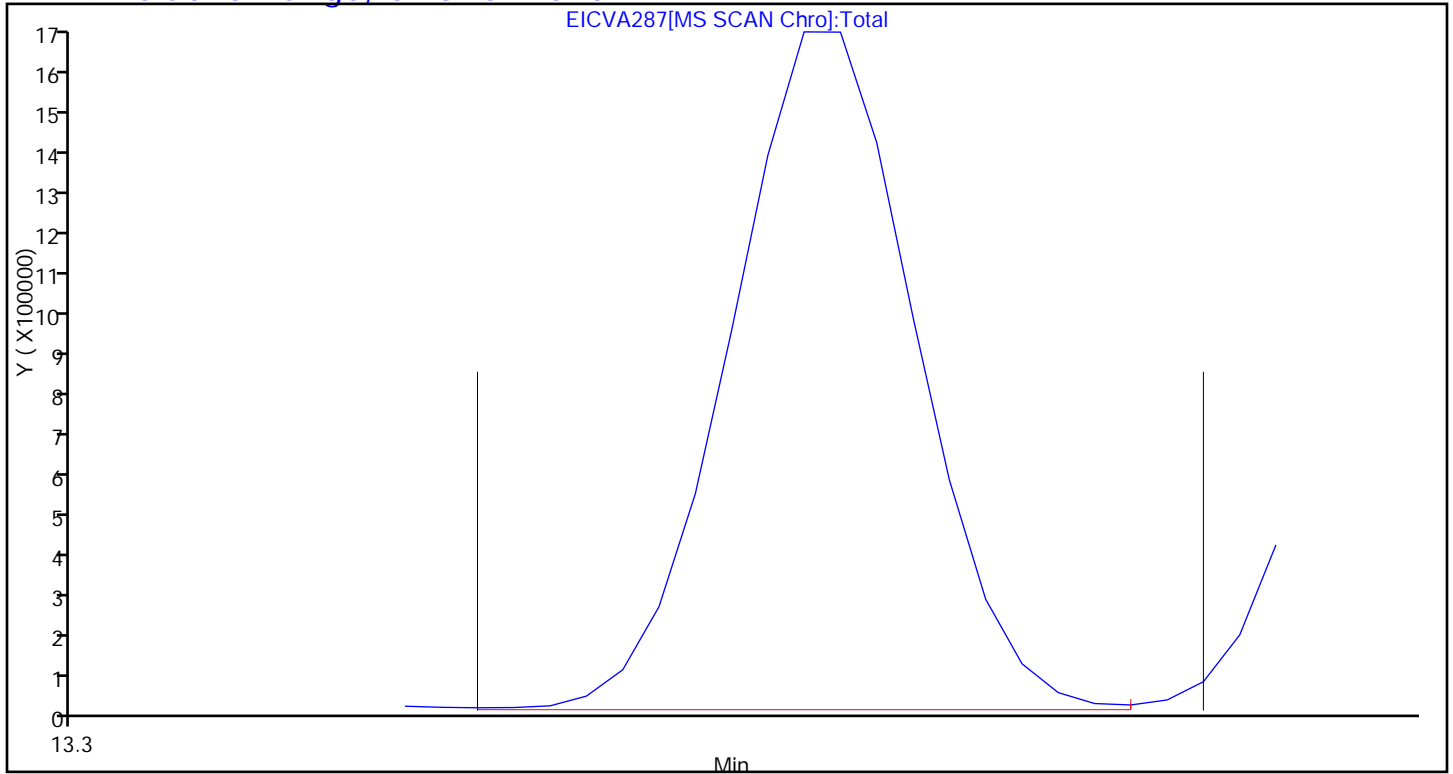
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA287.D

Injection Date: 28-Jan-2014 18:55:30 Instrument ID: ME

Lims ID: IC L7 Lab Sample ID:

Client ID:

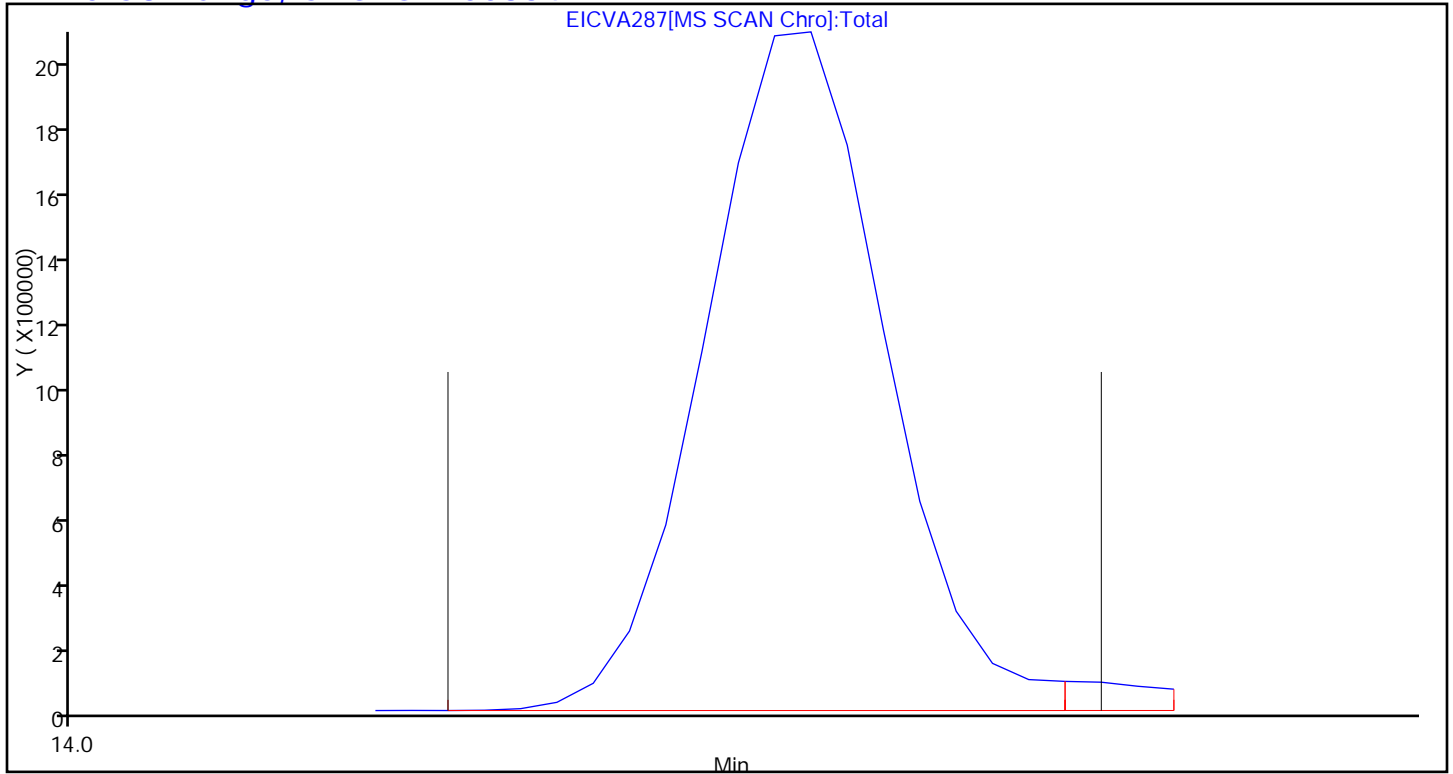
Operator ID: 7126 ALS Bottle#: 5 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D
 Lims ID: IC L8 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 28-Jan-2014 19:40:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,6,,IC L8
 Misc. Info.: E012814I,TO155,140-0000390-009
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:10:40 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.361	8.355	0.006	88	296075	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.588	0.006	95	1462262	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	75	1290973	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	87	1116311	3.95	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	268638	6.47	
7 Propene	41	3.314	3.315	-0.001	93	470316	6.31	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	98	2101990	6.42	
9 Chloromethane	52	3.535	3.535	0.0	99	180123	6.89	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	91	1376417	6.97	
11 Acetaldehyde	44	3.692	3.684	0.008	92	917653	37.0	
12 Vinyl chloride	62	3.697	3.697	0.0	99	689225	6.83	
14 Butane	43	3.778	3.778	0.0	83	924824	6.53	
13 Butadiene	54	3.783	3.780	0.003	73	475730	6.82	
15 Bromomethane	94	4.085	4.084	0.001	98	719380	6.60	
16 Chloroethane	64	4.220	4.217	0.003	94	352344	6.88	
17 Ethanol	31	4.333	4.321	0.012	98	893706	30.2	
18 Vinyl bromide	106	4.511	4.503	0.008	96	669338	6.79	
19 2-Methylbutane	43	4.549	4.545	0.004	87	679387	6.55	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	100	2063977	6.28	
20 Acrolein	56	4.781	4.773	0.008	98	219844	7.02	
22 Acetonitrile	40	4.856	4.845	0.011	96	211592	7.51	
23 Acetone	58	4.894	4.892	0.002	92	320431	7.15	
25 Pentane	72	4.975	4.970	0.005	96	131724	6.78	
24 Isopropyl alcohol	45	4.986	4.978	0.008	75	762400	6.60	
26 Ethyl ether	31	5.137	5.138	-0.001	88	589010	7.82	
27 1,1-Dichloroethene	96	5.455	5.450	0.005	97	619495	7.03	
29 2-Methyl-2-propanol	59	5.568	5.565	0.003	95	1190666	7.29	
28 Acrylonitrile	53	5.579	5.569	0.010	91	405250	7.81	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.627	5.622	0.005	95	1402386	6.90	
31 Methylene Chloride	84	5.811	5.802	0.009	89	580965	6.87	
32 3-Chloro-1-propene	39	5.822	5.814	0.008	87	699636	7.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.962	5.953	0.009	100	2033064	6.63	
34 trans-1,2-Dichloroethene	96	6.614	6.605	0.009	98	764390	7.08	
35 2-Methylpentane	43	6.620	6.615	0.005	89	1351436	6.93	
36 Methyl tert-butyl ether	73	6.728	6.736	-0.008	95	2027412	7.54	
37 1,1-Dichloroethane	63	7.040	7.031	0.009	99	1292626	7.08	
38 Vinyl acetate	43	7.148	7.140	0.008	99	1471756	8.17	
39 2-Butanone (MEK)	72	7.596	7.593	0.003	97	299770	6.19	
40 Hexane	56	7.606	7.599	0.007	84	554862	7.05	
41 cis-1,2-Dichloroethene	96	8.027	8.018	0.009	95	740038	7.35	
42 Ethyl acetate	43	8.216	8.212	0.004	98	1173108	7.44	
43 Chloroform	83	8.372	8.364	0.008	98	1733885	6.84	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	82	568674	7.49	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	96	1978262	6.87	
46 1,2-Dichloroethane	62	9.521	9.514	0.007	98	1258864	7.02	
47 n-Butanol	31	9.963	9.973	-0.010	81	208198	7.64	
49 Cyclohexane	69	10.006	10.002	0.004	91	386989	7.01	
48 Benzene	78	10.017	10.008	0.009	99	2056884	6.99	
50 Carbon tetrachloride	117	10.033	10.028	0.005	97	1935824	6.85	
51 2,3-Dimethylpentane	71	10.136	10.129	0.007	87	486742	7.11	
52 Thiophene	84	10.303	10.297	0.006	95	1330498	7.28	
53 Isooctane	57	10.804	10.797	0.007	96	3062538	6.74	
54 n-Heptane	71	11.198	11.195	0.003	86	802540	7.20	
55 1,2-Dichloropropane	63	11.289	11.286	0.003	79	703945	7.45	
56 Trichloroethene	130	11.322	11.319	0.003	94	1037668	7.14	
57 Dibromomethane	93	11.419	11.410	0.009	95	992840	7.15	
58 Dichlorobromomethane	83	11.565	11.558	0.006	99	1982561	7.16	
59 1,4-Dioxane	88	11.575	11.582	-0.007	87	278700	7.14	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	840759	7.58	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	1427118	6.86	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	94	1224874	7.07	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	96	1292191	7.75	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	98	1418820	8.14	
65 Toluene	91	13.414	13.411	0.003	95	2527126	7.31	
66 1,1,2-Trichloroethane	83	13.500	13.497	0.003	98	772819	7.59	
67 2-Methylthiophene	97	13.570	13.567	0.003	97	2245277	7.47	
68 3-Methylthiophene	97	13.775	13.769	0.006	98	2265001	7.49	
69 2-Hexanone	58	13.883	13.885	-0.002	95	651527	7.98	
70 n-Octane	85	14.110	14.108	0.002	83	940368	7.62	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	1809606	7.85	
72 Ethylene Dibromide	107	14.498	14.494	0.004	98	1420824	7.82	
73 Tetrachloroethene	129	14.563	14.562	0.001	95	1034130	7.02	
74 Chlorobenzene	112	15.447	15.443	0.004	89	2037383	7.39	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	82	1852481	6.99	
76 Ethylbenzene	91	15.733	15.733	0.0	98	3207997	7.24	
77 2-Ethylthiophene	97	15.841	15.836	0.005	97	2642099	7.44	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	94	4814240	13.8	
81 n-Nonane	57	16.315	16.313	0.002	81	1436340	7.42	
79 Bromoform	173	16.348	16.344	0.004	95	1784041	8.61	
80 Styrene	104	16.364	16.361	0.003	96	2030292	8.42	
82 o-Xylene	91	16.423	16.419	0.004	99	2750787	7.30	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	97	1735690	7.83	
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	94	633201	7.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.005	17.006	-0.001	96	3555567	7.14	
86 N-Propylbenzene	120	17.555	17.555	0.0	96	1065312	8.19	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	976295	7.87	
88 4-Ethyltoluene	105	17.712	17.710	0.002	95	3512011	7.37	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	92	1728961	8.00	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	81	1600565	8.97	
91 n-Decane	57	18.084	18.081	0.003	95	1669019	8.16	
92 tert-Butylbenzene	119	18.219	18.219	0.0	86	3135303	7.21	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	2896981	7.31	
95 sec-Butylbenzene	105	18.494	18.494	0.0	94	3796173	7.10	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	96	2018850	7.84	
96 Benzyl chloride	91	18.591	18.591	0.0	97	2720172	8.35	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	88	2005433	7.91	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	86	3351783	7.42	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	97	2491717	7.41	
100 Butylcyclohexane	83	18.769	18.769	0.0	91	2227957	7.17	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	2579616	7.45	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	84	1888530	7.69	
103 Indene	116	19.098	19.098	0.0	85	2649546	8.06	
104 n-Butylbenzene	91	19.103	19.103	0.0	97	3029659	7.58	
106 Undecane	57	19.416	19.416	0.0	88	1693437	9.38	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.481	19.479	0.001	95	3056488	7.88	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	96	3131815	8.16	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	94	2088639	8.32	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	2601031	8.12	
110 Dodecane	57	20.473	20.473	0.0	90	948787	7.00	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	1367132	8.34	
112 Naphthalene	128	20.802	20.803	-0.001	97	2452886	8.55	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	1710074	8.24	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	1617593	7.56	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	93	958303	7.83	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	531580	39.2	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	454062	38.5	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	6658150	6.65	
A 119 Toluene Range	1	13.411	13.366 -	13.463	0	6605678	7.57	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	7747718	7.42	
S 124 Xylenes, Total	100				0		21.1	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date: 28-Jan-2014 19:40:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L8

Lab Sample ID:

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

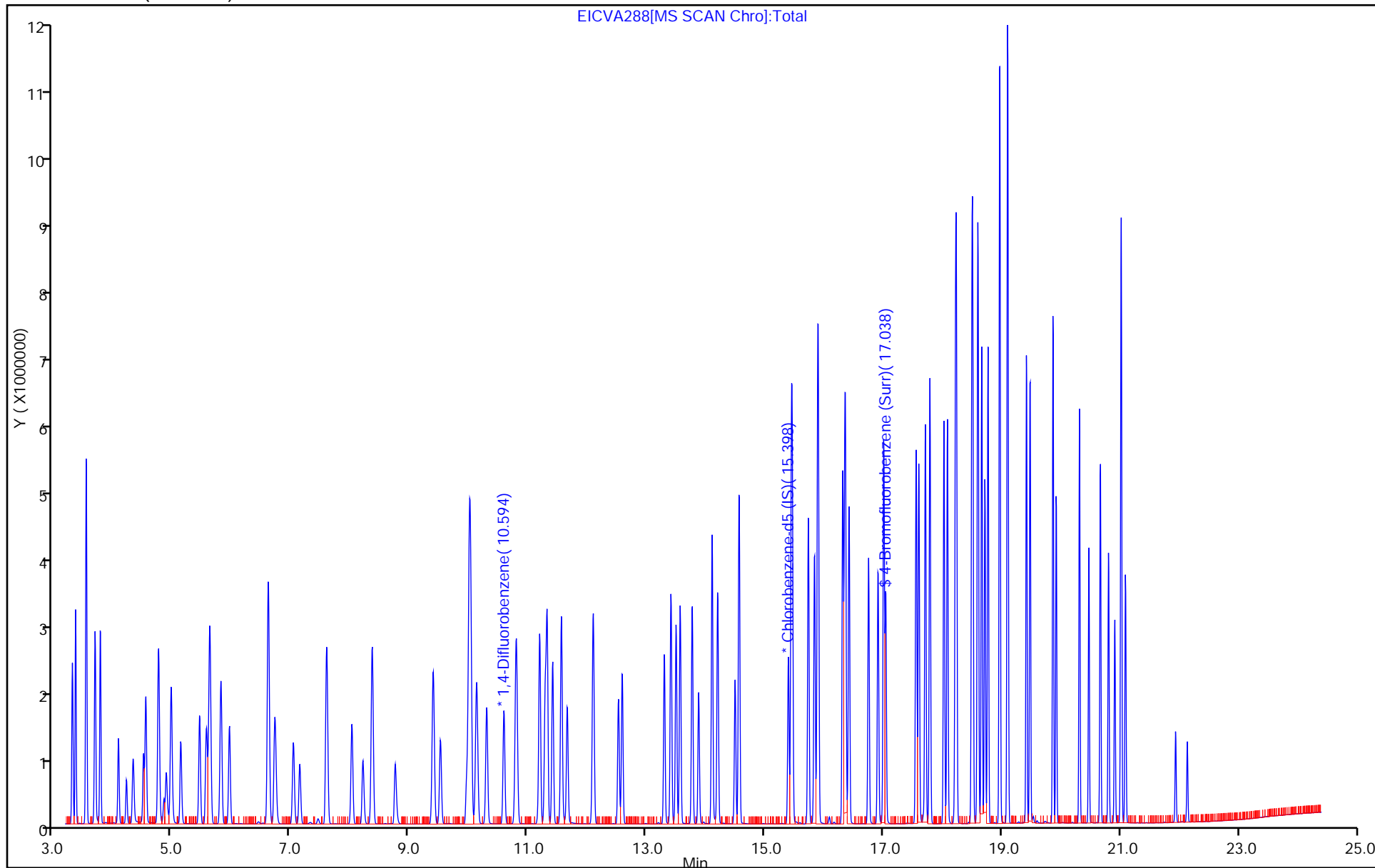
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date: 28-Jan-2014 19:40:30 Instrument ID: ME

Lims ID: IC L8 Lab Sample ID:

Client ID:

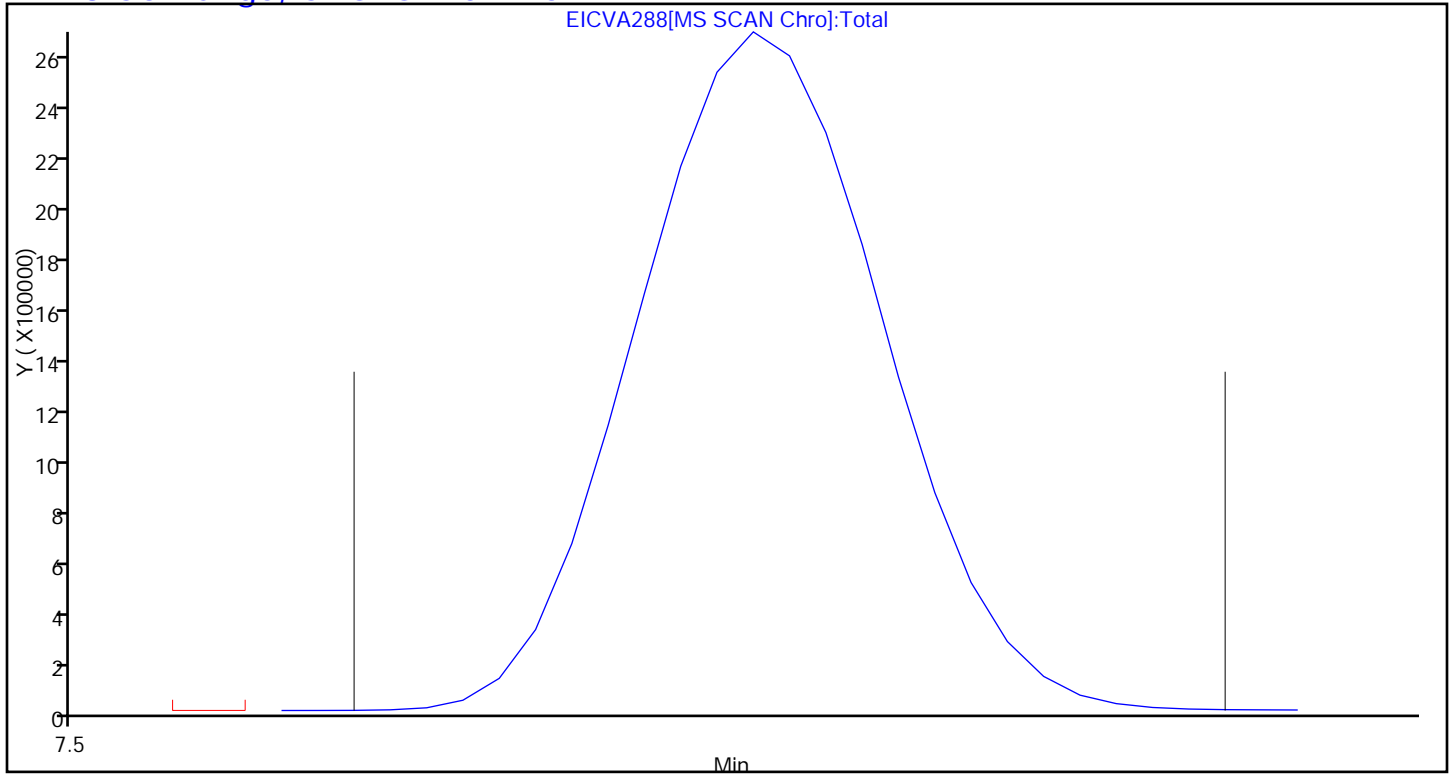
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date: 28-Jan-2014 19:40:30 Instrument ID: ME

Lims ID: IC L8 Lab Sample ID:

Client ID:

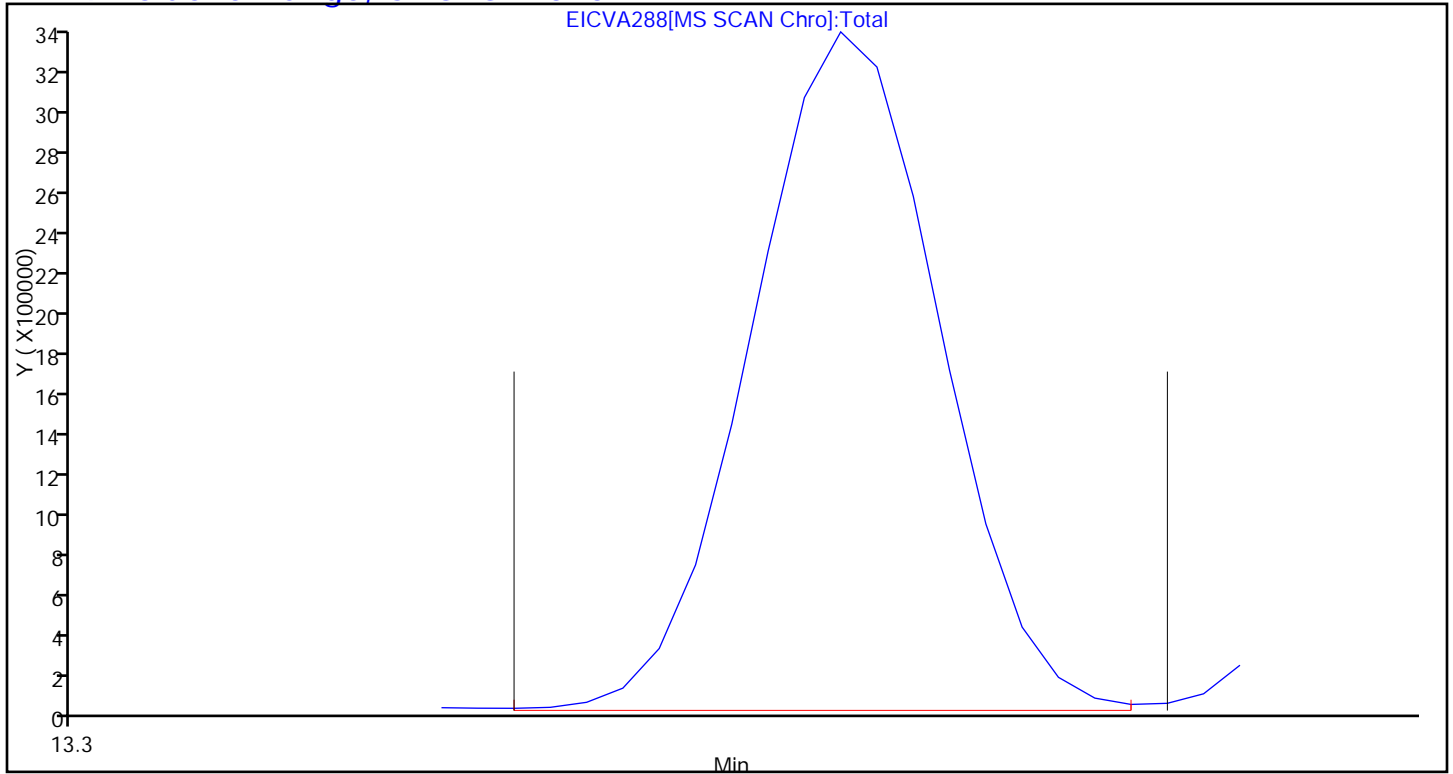
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA288.D

Injection Date: 28-Jan-2014 19:40:30 Instrument ID: ME

Lims ID: IC L8 Lab Sample ID:

Client ID:

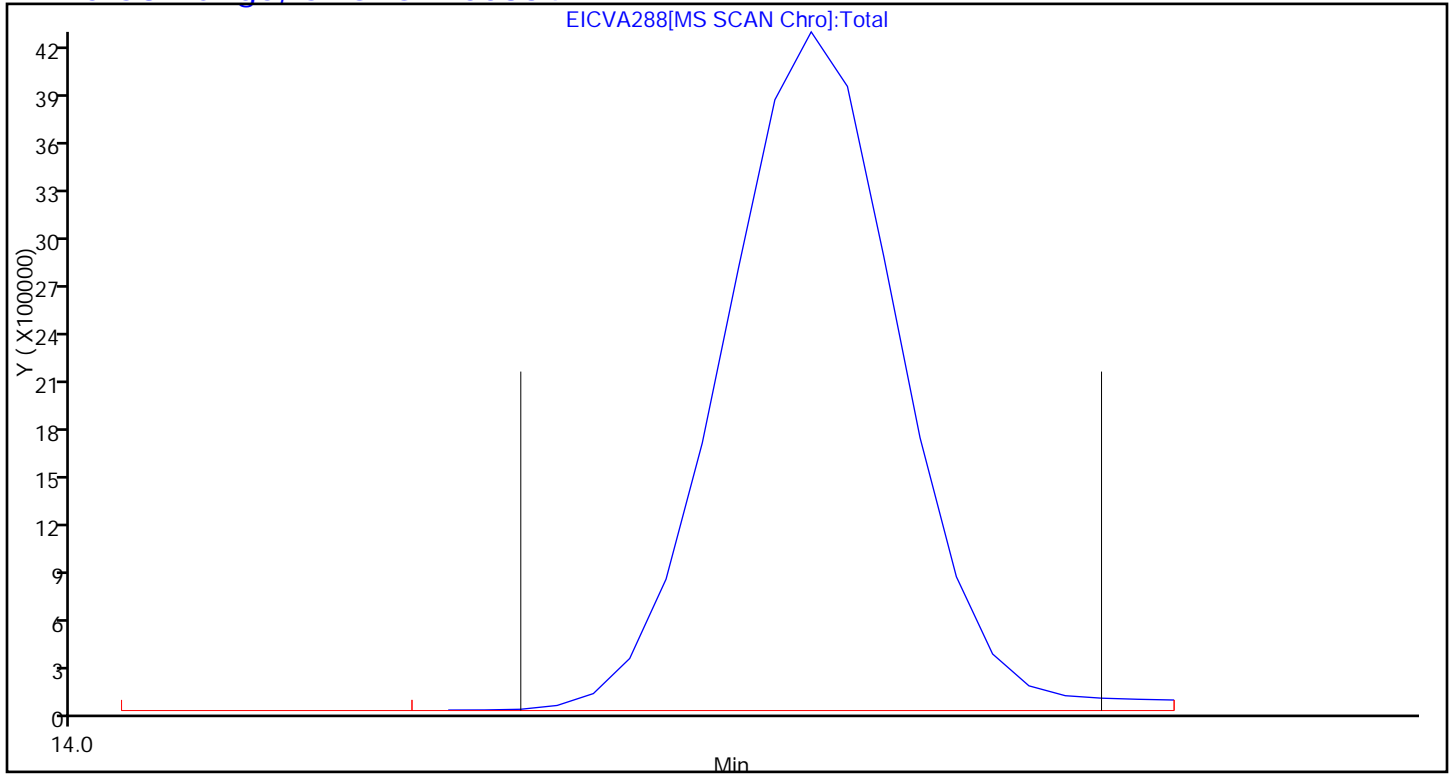
Operator ID: 7126 ALS Bottle#: 6 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Lims ID: IC L9 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 28-Jan-2014 20:25:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ical2,1,1,6,,IC L9
 Misc. Info.: E012814I,TO155,140-0000390-010
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub1
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:08:10 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goss

Date: 29-Jan-2014 09:33:14

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.372	8.355	0.017	93	297227	4.00	
* 2 1,4-Difluorobenzene	114	10.599	10.588	0.011	95	1439351	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.398	15.395	0.003	73	1278544	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.043	17.039	0.004	86	1083719	3.87	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	513221	12.3	
7 Propene	41	3.314	3.315	-0.001	94	863843	11.6	
8 Dichlorodifluoromethane	85	3.362	3.363	-0.001	96	3446389	10.5	
9 Chloromethane	52	3.535	3.535	0.0	98	344740	13.1	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	89	2181168	11.0	
11 Acetaldehyde	44	3.691	3.684	0.007	96	1587103	63.8	
12 Vinyl chloride	62	3.697	3.697	0.0	98	1297646	12.8	
14 Butane	43	3.783	3.778	0.005	82	1722952	12.1	
13 Butadiene	54	3.783	3.780	0.003	76	916889	13.1	
15 Bromomethane	94	4.090	4.084	0.006	98	1362202	12.4	
16 Chloroethane	64	4.225	4.217	0.008	94	687245	13.4	
17 Ethanol	31	4.344	4.321	0.023	98	1643730	55.3	
18 Vinyl bromide	106	4.511	4.503	0.008	96	1270623	12.8	
19 2-Methylbutane	43	4.549	4.545	0.004	87	1307787	12.6	
21 Trichlorofluoromethane	101	4.765	4.757	0.008	98	3642045	11.0	
20 Acrolein	56	4.786	4.773	0.013	98	423477	13.5	
22 Acetonitrile	40	4.862	4.845	0.017	93	404172	14.3	
23 Acetone	58	4.899	4.892	0.007	78	473689	10.5	
25 Pentane	72	4.975	4.970	0.005	97	256857	13.2	
24 Isopropyl alcohol	45	4.996	4.978	0.018	87	1390152	12.0	
26 Ethyl ether	31	5.142	5.138	0.004	88	1137762	15.0	
27 1,1-Dichloroethene	96	5.460	5.450	0.010	98	1202116	13.6	
29 2-Methyl-2-propanol	59	5.573	5.565	0.008	95	2173003	13.2	
28 Acrylonitrile	53	5.584	5.569	0.015	91	789709	15.2	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.633	5.622	0.011	95	2627067	12.9	
31 Methylene Chloride	84	5.816	5.802	0.014	86	1125171	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.827	5.814	0.013	87	1328767	13.3	
33 Carbon disulfide	76	5.962	5.953	0.009	99	3689458	12.0	
34 trans-1,2-Dichloroethene	96	6.619	6.605	0.014	97	1463666	13.5	
35 2-Methylpentane	43	6.625	6.615	0.010	89	2544288	13.0	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	95	3756750	13.9	
37 1,1-Dichloroethane	63	7.045	7.031	0.014	98	2438209	13.3	
38 Vinyl acetate	43	7.153	7.140	0.013	99	2792667	15.4	
39 2-Butanone (MEK)	72	7.601	7.593	0.008	97	574229	11.8	
40 Hexane	56	7.606	7.599	0.007	85	1072303	13.6	
41 cis-1,2-Dichloroethene	96	8.032	8.018	0.014	94	1437926	14.2	
42 Ethyl acetate	43	8.221	8.212	0.009	98	2249979	14.2	
43 Chloroform	83	8.377	8.364	0.013	99	3222951	12.7	
44 Tetrahydrofuran	42	8.760	8.769	-0.009	83	1112803	14.6	
45 1,1,1-Trichloroethane	97	9.402	9.394	0.008	98	3633217	12.6	
46 1,2-Dichloroethane	62	9.526	9.514	0.012	99	2364459	13.4	
47 n-Butanol	31	9.968	9.973	-0.005	82	392886	14.6	
49 Cyclohexane	69	10.006	10.002	0.004	92	739897	13.6	
48 Benzene	78	10.022	10.008	0.014	99	3767953	13.0	
50 Carbon tetrachloride	117	10.038	10.028	0.010	96	3637079	13.1	
51 2,3-Dimethylpentane	71	10.135	10.129	0.006	88	955560	14.2	
52 Thiophene	84	10.308	10.297	0.011	96	2539084	14.1	
53 Isooctane	57	10.804	10.797	0.007	94	5605178	12.5	
54 n-Heptane	71	11.203	11.195	0.008	86	1557247	14.2	
55 1,2-Dichloropropane	63	11.295	11.286	0.009	80	1369406	14.7	
56 Trichloroethene	130	11.327	11.319	0.008	96	2005451	14.0	
57 Dibromomethane	93	11.419	11.410	0.009	95	1882498	13.8	
58 Dichlorobromomethane	83	11.570	11.558	0.012	99	3607863	13.2	
59 1,4-Dioxane	88	11.575	11.582	-0.007	90	541585	14.1	
60 Methyl methacrylate	41	11.667	11.661	0.006	84	1629075	14.9	
61 Methylcyclohexane	83	12.104	12.099	0.005	95	2706403	13.2	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	93	2264964	13.3	
63 cis-1,3-Dichloropropene	75	12.594	12.588	0.006	95	2445239	14.9	
64 trans-1,3-Dichloropropene	75	13.306	13.298	0.008	98	2664845	15.4	
65 Toluene	91	13.419	13.411	0.008	95	4533445	13.2	
66 1,1,2-Trichloroethane	83	13.506	13.497	0.009	98	1480801	14.7	
67 2-Methylthiophene	97	13.576	13.567	0.009	96	4120545	13.9	
68 3-Methylthiophene	97	13.775	13.769	0.006	97	4134387	13.8	
69 2-Hexanone	58	13.883	13.885	-0.002	96	1243696	15.4	
70 n-Octane	85	14.115	14.108	0.007	81	1783859	14.6	
71 Chlorodibromomethane	129	14.207	14.199	0.008	95	3317082	14.5	
72 Ethylene Dibromide	107	14.498	14.494	0.004	99	2674424	14.9	
73 Tetrachloroethene	129	14.568	14.562	0.006	95	1953161	13.4	
74 Chlorobenzene	112	15.447	15.443	0.004	87	3680646	13.5	
75 2,3-Dimethylheptane	43	15.463	15.459	0.004	80	3366830	12.8	
76 Ethylbenzene	91	15.738	15.733	0.005	96	5443421	12.4	
77 2-Ethylthiophene	97	15.840	15.836	0.004	96	4614900	13.1	
78 m-Xylene & p-Xylene	91	15.900	15.896	0.004	88	7683015	22.3	
81 n-Nonane	57	16.315	16.313	0.002	79	2620480	13.7	
79 Bromoform	173	16.347	16.344	0.003	92	3244960	15.8	
80 Styrene	104	16.364	16.361	0.003	96	3601712	15.1	
82 o-Xylene	91	16.423	16.419	0.004	97	4726720	12.7	
83 1,1,2,2-Tetrachloroethane	83	16.752	16.751	0.001	96	3175868	14.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.914	16.910	0.004	93	1195261	14.9	
85 Isopropylbenzene	105	17.011	17.006	0.005	96	5909104	12.0	
86 N-Propylbenzene	120	17.555	17.555	0.0	92	1993859	15.5	
87 2-Chlorotoluene	126	17.604	17.600	0.004	93	1833107	14.9	
88 4-Ethyltoluene	105	17.712	17.710	0.002	91	5812180	12.3	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	93	3091405	14.4	
90 Alpha Methyl Styrene	118	18.024	18.024	0.0	80	2908151	16.5	
91 n-Decane	57	18.084	18.081	0.003	95	2999349	14.8	
92 tert-Butylbenzene	119	18.224	18.219	0.005	84	5252070	12.2	
93 1,2,4-Trimethylbenzene	105	18.240	18.235	0.005	94	4765474	12.1	
95 sec-Butylbenzene	105	18.499	18.494	0.005	91	5960217	11.3	
94 1,3-Dichlorobenzene	146	18.515	18.511	0.004	95	3543123	13.9	
96 Benzyl chloride	91	18.591	18.591	0.0	95	4519158	14.0	
97 1,4-Dichlorobenzene	146	18.607	18.602	0.005	87	3544038	14.1	
98 4-Isopropyltoluene	119	18.666	18.661	0.005	81	5485302	12.3	
99 1,2,3-Trimethylbenzene	105	18.720	18.715	0.005	94	4296018	12.9	
100 Butylcyclohexane	83	18.769	18.769	0.0	89	3848373	12.5	
102 2,3-Dihydroindene	117	18.968	18.965	0.003	89	4245253	12.4	
101 1,2-Dichlorobenzene	146	18.968	18.967	0.001	85	3280222	13.5	
103 Indene	116	19.097	19.098	-0.001	85	4380607	13.4	
104 n-Butylbenzene	91	19.103	19.103	0.0	92	4749223	12.0	
106 Undecane	57	19.421	19.416	0.005	87	3009425	16.8	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.480	19.479	0.001	93	4989574	13.0	
107 1,2,4,5-Tetramethylbenzene	119	19.869	19.864	0.005	93	5052406	13.3	
108 1,2,3,5-Tetramethylbenzene	119	19.922	19.918	0.004	96	3599938	14.5	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	96	4367328	13.8	
110 Dodecane	57	20.473	20.473	-0.001	89	1821914	13.6	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	95	2614768	16.1	
112 Naphthalene	128	20.807	20.803	0.004	96	4473334	15.7	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	97	3366455	16.4	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	83	2804459	13.2	
115 1,2,3-Trichlorobenzene	180	21.093	21.089	0.004	92	1945035	16.1	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	98	1080016	80.5	
117 1-Methylnaphthalene	142	22.133	22.133	0.0	99	896319	76.7	
A 118 C6 Range	1	7.612	7.536 -	7.687	0	12646140	12.8	
A 119 Toluene Range	1	13.414	13.365 -	13.473	0	12238642	14.2	
A 120 C8 Range	1	14.107	14.066 -	14.163	0	14384218	14.0	
S 124 Xylenes, Total	100				0		34.9	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date: 28-Jan-2014 20:25:30

Instrument ID: ME

Operator ID: 7126

Lims ID: IC L9

Lab Sample ID:

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

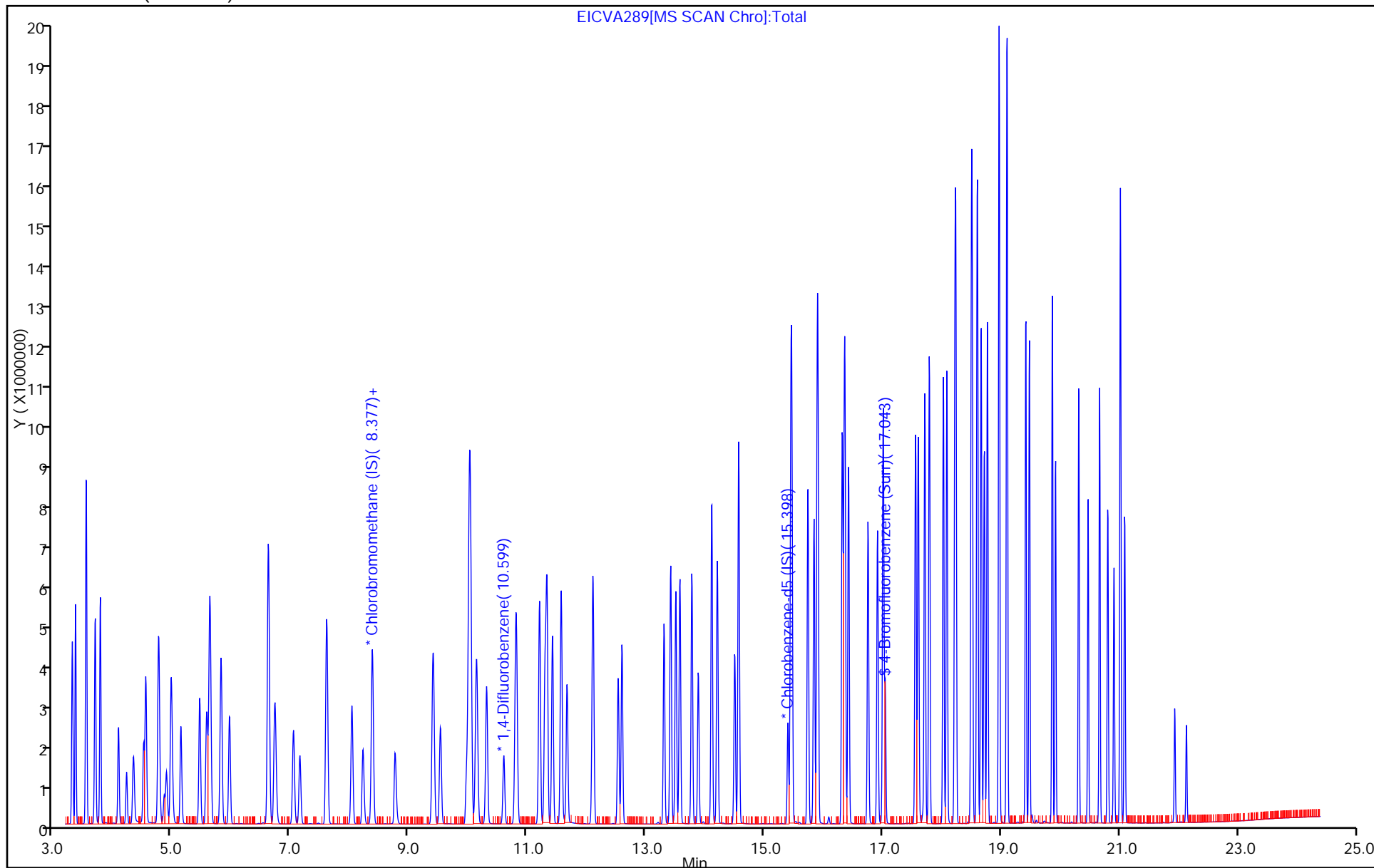
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date: 28-Jan-2014 20:25:30

Instrument ID: ME

Lims ID: IC L9

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

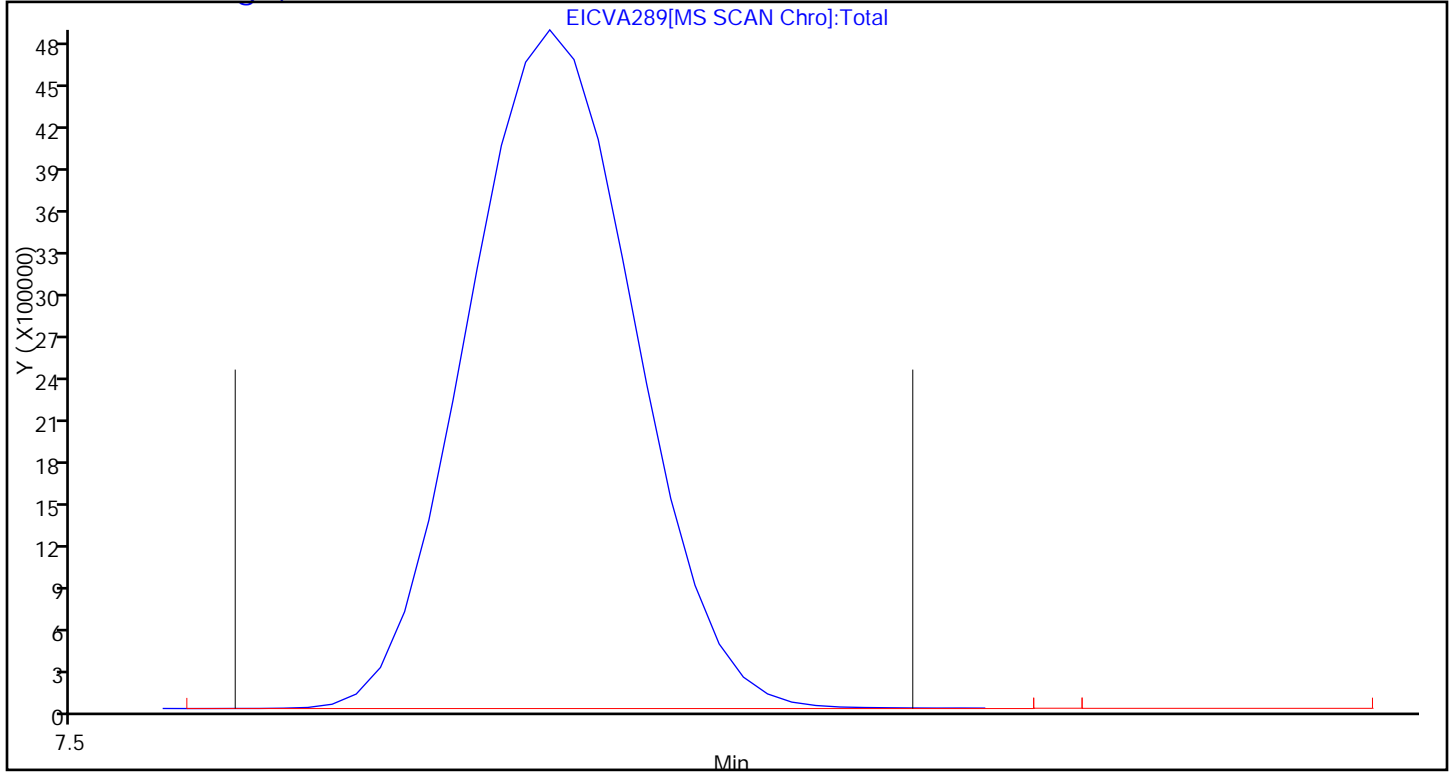
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date: 28-Jan-2014 20:25:30 Instrument ID: ME

Lims ID: IC L9 Lab Sample ID:

Client ID:

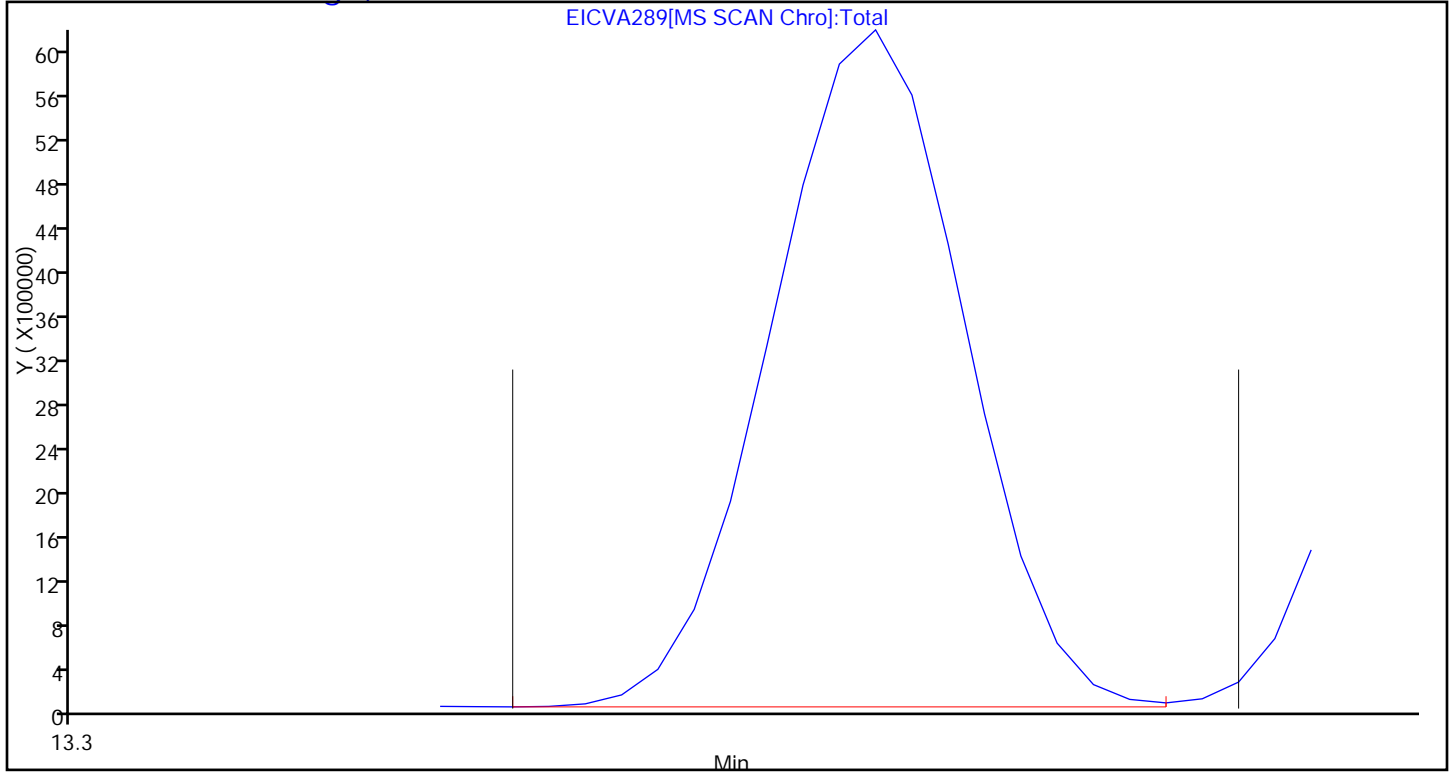
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Injection Date: 28-Jan-2014 20:25:30 Instrument ID: ME

Lims ID: IC L9 Lab Sample ID:

Client ID:

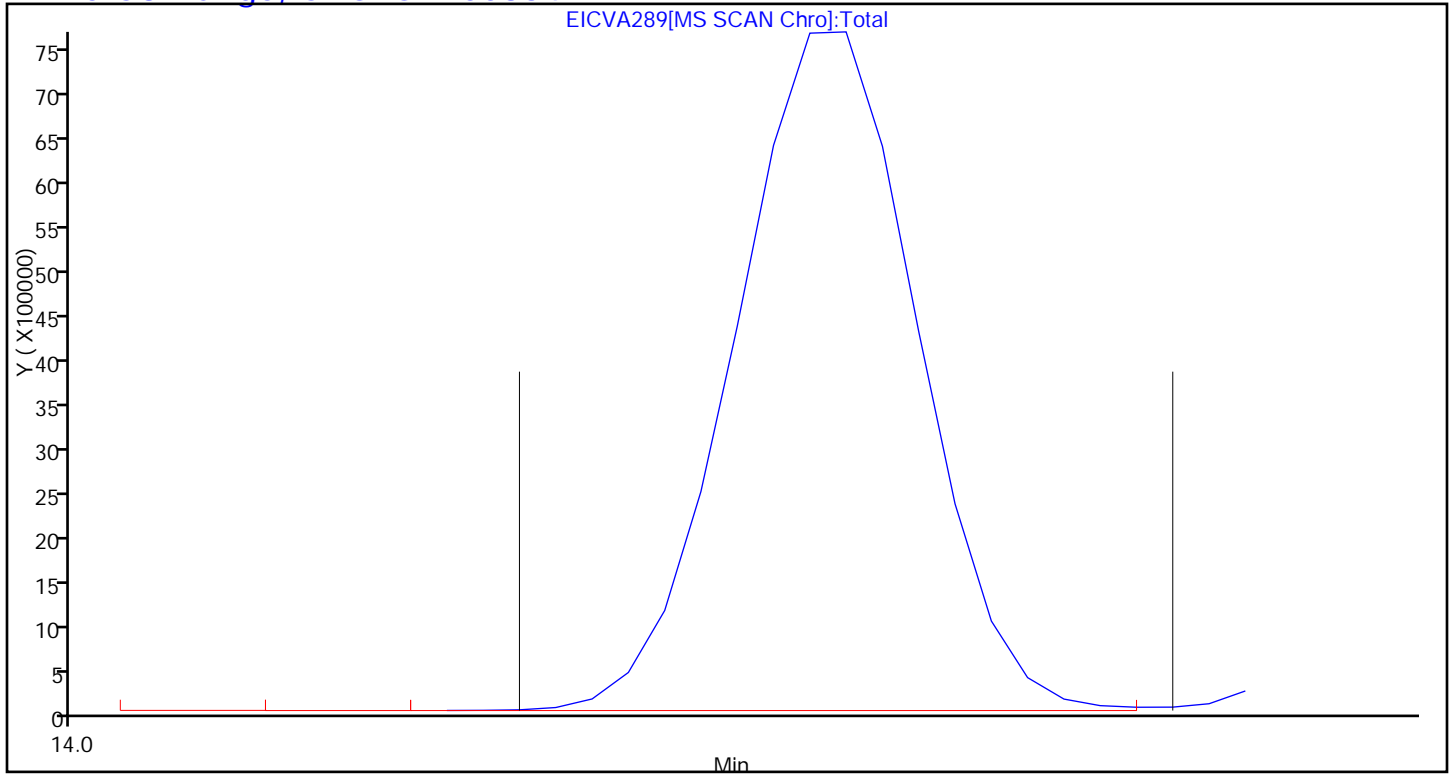
Operator ID: 7126 ALS Bottle#: 7 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 120 C8 Range, CAS: STL00834



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Chlorodifluoromethane	++++ 0.3753	0.4978 0.3659	0.5073 0.4196	0.4028 0.3604	0.3733	Ave	0.4128				14.0		30.0				
Propene	++++ 1.1609	++++ 1.0928	1.5479 1.2091	1.3069 1.0396	1.2285	Ave	1.2265				14.0		30.0				
Dichlorodifluoromethane	4.0543 3.8605	4.1829 3.7019	4.4748 4.1665	3.9221 3.4793	3.8163	Ave	3.9621				7.4		30.0				
Chloromethane	0.4990 0.4300	0.5059 0.4083	0.5376 0.4477	0.4430 0.3527	0.4267	Ave	0.4501				13.0		30.0				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.0829 2.9363	2.9387 2.9036	3.2994 3.3134	2.7218 2.8449	2.8704	Ave	2.9902				6.8		30.0				
Acetaldehyde	++++ 0.3869	++++ 0.3394	0.5021 0.4038	0.3733 0.3144	0.4428	Ave	0.3947				16.0		40.0				
Vinyl chloride	1.5245 1.4510	1.5243 1.3825	1.7385 1.5461	1.4871 1.2615	1.4309	Ave	1.4829				8.8		30.0				
1,3-Butadiene	1.0318 0.9981	1.1281 0.9554	1.1902 1.0690	1.0309 0.8729	0.9968	Ave	1.0304				9.0		30.0				
Butane	2.4463 1.9819	2.4604 1.8724	2.4977 2.0463	2.0911 1.6158	1.9815	Ave	2.1104				14.0		30.0				
Bromomethane	1.6099 1.4285	1.6087 1.3888	1.7128 1.5877	1.4631 1.3671	1.4070	Ave	1.5082				8.2		30.0				
Chloroethane	0.7289 0.6460	0.7041 0.6345	0.7842 0.7144	0.6734 0.6077	0.6467	Ave	0.6822				8.1		30.0				
Ethanol	++++ 0.3202	++++ 0.3084	0.3784 0.3103	0.3380 0.2624	0.3301	Ave	0.3211				11.0		40.0				
Vinyl bromide	1.2510 1.2325	1.2858 1.2290	1.4459 1.4152	1.2277 1.2497	1.2076	Ave	1.2827				6.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylbutane	++++ 1.5962	1.9901 1.5455	2.0881 1.7015	1.6610 1.4088	1.5999	Ave		1.6989			13.0		30.0				
Trichlorofluoromethane	3.4010 3.3842	3.4970 3.3373	3.9742 3.7583	3.3853 3.2490	3.3401	Ave		3.4807			6.7		30.0				
Acrolein	++++ 0.3021	0.4128 0.2855	0.3655 0.3935	0.2328 0.3121	0.3081	Ave		0.3266			18.0		30.0				
Acetonitrile	++++ 0.3368	0.4098 0.3061	0.4320 0.3943	0.3296 0.3403	0.3366	Ave		0.3607			12.0		30.0				
Acetone	++++ 0.5780	++++ 0.3424	++++ 0.3699	0.7210 ++++	0.8316	Ave		0.5686			38.0	*	30.0				
Isopropyl alcohol	++++ 1.4403	++++ 1.4471	1.7112 1.5786	1.5277 1.3482	1.4569	Ave		1.5014			7.8		30.0				
Pentane	++++ 0.2110	0.1929 0.2103	0.2420 0.2383	0.2107 0.2065	0.2100	Ave		0.2152			7.7		30.0				
Ethyl ether	++++ 1.0219	1.2193 0.9461	1.2370 1.0985	0.8503 0.9217	1.0780	Ave		1.0466			13.0		30.0				
1,1-Dichloroethene	1.2472 1.0504	1.1312 1.0692	1.2574 1.1985	1.0484 1.0684	1.0359	Ave		1.1230			7.9		30.0				
tert-Butyl alcohol	++++ 1.5527	2.1474 1.6753	2.1170 1.9312	1.9306 1.6797	1.7618	Ave		1.8495			12.0		30.0				
Acrylonitrile	0.6837 0.5684	0.6036 0.5529	0.6491 0.6783	0.4430 0.6032	0.5680	Ave		0.5945			13.0		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110 2.3296	2.4189 2.3382	2.7256 2.5850	2.3179 2.2877	2.2929	Ave		2.4119			6.2		30.0				
Methylene Chloride	++++ 1.0284	++++ 1.0127	1.3860 1.0525	1.0569 0.9311	1.0231	Ave		1.0701			14.0		30.0				
3-Chloropropene	++++ 1.0457	1.4141 1.0202	1.4133 1.0428	1.0400 0.8935	1.0351	Ave		1.1131			17.0		30.0				
Carbon disulfide	3.8327 3.6559	3.8048 3.6157	4.3304 4.0136	3.6252 3.4128	3.5747	Ave		3.7629			7.3		30.0				
trans-1,2-Dichloroethene	1.5956 1.2849	1.4088 1.2971	1.5141 1.3354	1.2666 1.2156	1.2555	Ave		1.3526			9.5		30.0				
2-Methylpentane	3.5143 2.9748	3.3896 2.8931	3.6215 3.0116	2.9875 2.4248	2.9621	Ave		3.0866			12.0		40.0				
Methyl tert-butyl ether	++++ 2.0306	2.2440 1.9367	2.3259 2.1576	1.7335 1.8416	2.0623	Ave		2.0415			9.8		30.0				
1,1-Dichloroethane	2.2983 2.0618	2.2481 2.0212	2.5871 1.9936	1.8978 1.7914	2.0982	Ave		2.1108			11.0		30.0				
Vinyl acetate	++++ 1.8387	2.0207 1.7150	2.0413 2.1043	1.4173 1.8329	1.8240	Ave		1.8493			12.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Butanone (MEK)	++++ 0.3964	++++ 0.3598	0.4111 0.3829	0.3437 0.3472	0.4093	Ave		0.3786			7.5		30.0				
C6 Range	++++ 11.457	++++ 10.950	14.161 11.507	11.950 10.055	11.668	Ave		11.678			11.0		30.0				
Hexane	1.2499 1.0288	1.1722 0.9966	1.2816 1.0234	1.0019 0.9009	1.0232	Ave		1.0754			12.0		30.0				
cis-1,2-Dichloroethene	++++ 1.1421	1.2484 1.1159	1.4102 1.1085	1.0275 1.0343	1.1509	Ave		1.1547			11.0		30.0				
Ethyl acetate	++++ 1.6675	1.8616 1.5787	1.8823 1.7022	1.3606 1.4909	1.6483	Ave		1.6490			11.0		30.0				
Chloroform	2.7060 2.2129	2.5161 2.1695	2.8522 2.1655	2.0807 1.9884	2.2854	Ave		2.3307			13.0		30.0				
Tetrahydrofuran	++++ 0.8907	1.1007 0.8382	1.1060 0.9416	0.7993 0.8406	0.8948	Ave		0.9265			13.0		30.0				
1,1,1-Trichloroethane	2.5690 2.4044	2.5894 2.3199	2.9524 2.2395	2.2082 2.1153	2.4654	Ave		2.4293			10.0		30.0				
1,2-Dichloroethane	0.3524 0.2986	0.3242 0.3013	0.3469 0.2973	0.2680 0.3047	0.2994	Ave		0.3103			8.5		30.0				
1-Butanol	++++ 0.0758	++++ 0.0850	++++ 0.1016	0.0902 0.0993	0.0728	Ave		0.0874			14.0		30.0				
Benzene	++++ 0.6491	0.7894 0.6742	0.7885 0.6678	0.5956 0.6732	0.6526	Ave		0.6863			9.9		30.0				
Cyclohexane	0.1355 0.1326	0.1403 0.1351	0.1546 0.1320	0.1280 0.1295	0.1311	Ave		0.1354			6.0		30.0				
Carbon tetrachloride	0.5567 0.5334	0.5322 0.5682	0.6406 0.5720	0.5209 0.6134	0.5648	Ave		0.5669			6.9		30.0				
2,3-Dimethylpentane	0.1746 0.1531	0.1672 0.1548	0.1903 0.1594	0.1424 0.1580	0.1574	Ave		0.1619			8.6		40.0				
Thiophene	++++ 0.4079	0.4449 0.4137	0.5038 0.4130	0.3692 0.4248	0.4135	Ave		0.4238			9.1		40.0				
2,2,4-Trimethylpentane	++++ 1.1013	1.2866 1.1120	1.4233 1.1598	1.0650 1.0917	1.1349	Ave		1.1718			10.0		30.0				
Heptane	++++ 0.2302	0.2523 0.2339	0.2876 0.2500	0.2069 0.2495	0.2312	Ave		0.2427			9.7		30.0				
1,2-Dichloropropane	0.2713 0.2248	0.2476 0.2244	0.2446 0.2162	0.1894 0.2424	0.2270	Ave		0.2320			9.9		30.0				
Trichloroethene	0.3681 0.3070	0.3361 0.3103	0.3882 0.3376	0.2860 0.3565	0.3066	Ave		0.3329			10.0		30.0				
Dibromomethane	0.3519 0.2871	0.3135 0.2904	0.3463 0.3019	0.2521 0.3144	0.2898	Ave		0.3053			10.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Bromodichloromethane	0.5415 0.4610	0.4794 0.4772	0.5203 0.5090	0.3917 0.5236	0.4559	Ave	0.4844				9.4		30.0				
1,4-Dioxane	0.0864 0.0761	0.0789 0.0837	0.0861 0.0932	0.0734 0.0944	0.0759	Ave	0.0831				9.1		30.0				
Methyl methacrylate	++++ 0.2033	0.2108 0.2121	0.2172 0.2415	0.1522 0.2315	0.1963	Ave	0.2081				13.0		30.0				
Methylcyclohexane	0.5084 0.4369	0.4885 0.4352	0.5437 0.4447	0.4036 0.4462	0.4506	Ave	0.4620				9.4		40.0				
4-Methyl-2-pentanone (MIBK)	0.4768 0.4049	0.4050 0.4208	0.3722 0.5038	0.3199 0.4786	0.3915	Ave	0.4193				14.0		30.0				
cis-1,3-Dichloropropene	0.3912 0.3148	0.3360 0.3226	0.3321 0.3286	0.2584 0.3651	0.3130	Ave	0.3291				11.0		30.0				
trans-1,3-Dichloropropene	++++ 0.3239	0.3387 0.3309	0.3498 0.3384	0.2652 0.3768	0.3281	Ave	0.3315				9.5		30.0				
Toluene	++++ 0.7167	0.8202 0.7308	0.8244 0.7195	0.6019 0.7841	0.7388	Ave	0.7420				9.6		30.0				
Toluene Range	++++ 1.7355	1.8850 1.7414	2.3214 1.7164	1.4393 1.8607	1.7681	Ave	1.8085				14.0		30.0				
1,1,2-Trichloroethane	++++ 0.2300	0.2512 0.2324	0.2564 0.2257	0.1979 0.2522	0.2355	Ave	0.2352				8.1		30.0				
2-Methylthiophene	++++ 0.6589	0.7303 0.6637	0.7306 0.6296	0.5576 0.7008	0.6632	Ave	0.6668				8.5		40.0				
3-Methylthiophene	++++ 0.6573	0.7094 0.6674	0.7385 0.6367	0.5566 0.7128	0.6732	Ave	0.6690				8.4		40.0				
2-Hexanone	0.2893 0.2225	0.2360 0.2440	0.2090 0.2907	0.1958 0.2785	0.2215	Ave	0.2430				15.0		30.0				
C8 Range	++++ 2.5227	++++ 2.5151	4.1853 2.4822	2.7311 2.3967	2.7836	Ave	2.8024				22.0		30.0				
Octane	++++ 0.2554	0.2894 0.2698	0.3001 0.2764	0.2400 0.2819	0.2649	Ave	0.2723				7.0		30.0				
Dibromochloromethane	0.5683 0.4999	0.4537 0.5452	0.4884 0.5757	0.4110 0.6423	0.4872	Ave	0.5191				14.0		30.0				
1,2-Dibromoethane (EDB)	++++ 0.3904	0.4062 0.3997	0.4255 0.4060	0.3250 0.4746	0.3969	Ave	0.4030				10.0		30.0				
Tetrachloroethene	0.4307 0.3126	0.3606 0.3248	0.3860 0.3276	0.2918 0.3623	0.3149	Ave	0.3457				13.0		30.0				
Chlorobenzene	0.7600 0.5843	0.6366 0.6134	0.6670 0.6220	0.5083 0.7170	0.5962	Ave	0.6339				12.0		30.0				
2,3-Dimethylheptane	++++ 0.7774	1.0016 0.7981	0.9243 0.7543	0.8155 0.6301	0.8355	Ave	0.8171				14.0		40.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Ethylbenzene	++++ 0.7809	0.8590 0.7918	0.9295 0.8662	0.6485 0.8867	0.7945	Ave	0.8196				11.0		30.0				
2-Ethylthiophene	++++ 0.6211	0.6509 0.6348	0.7104 0.6760	0.5063 0.7092	0.6300	Ave	0.6423				10.0		40.0				
m-Xylene & p-Xylene	0.8724 0.6048	0.6478 0.6174	0.7195 0.6892	0.5053 0.6848	0.6113	Ave	0.6614				15.0		30.0				
Nonane	0.5849 0.4962	0.5269 0.5198	0.5003 0.5325	0.4350 0.5270	0.5092	Ave	0.5146				7.7		30.0				
Bromoform	0.3869 0.3941	0.3029 0.4477	0.3351 0.5176	0.2786 0.6525	0.3753	Ave	0.4101				28.0		30.0				
Styrene	0.4586 0.4545	0.3795 0.4737	0.4178 0.5566	0.3161 0.5951	0.4359	Ave	0.4542				19.0		30.0				
o-Xylene	++++ 0.6220	0.6989 0.6334	0.7758 0.7157	0.5518 0.7183	0.6477	Ave	0.6705				10.0		30.0				
1,1,2,2-Tetrachloroethane	0.6366 0.5114	0.4928 0.5428	0.5223 0.6379	0.4404 0.6334	0.5127	Ave	0.5478				13.0		30.0				
1,2,3-Trichloropropane	0.1442 0.1219	0.1181 0.1290	0.1305 0.1531	0.1029 0.1606	0.1220	Ave	0.1314				14.0		30.0				
Isopropylbenzene	++++ 0.8840	0.9896 0.9244	1.0486 1.0733	0.7621 1.0613	0.8995	Ave	0.9553				11.0		30.0				
Propylbenzene	0.2681 0.2341	0.2110 0.2500	0.2443 0.3134	0.1854 0.3341	0.2269	Ave	0.2519				19.0		30.0				
2-Chlorotoluene	0.3095 0.2380	0.2477 0.2491	0.2685 0.2880	0.2030 0.3199	0.2426	Ave	0.2629				14.0		30.0				
4-Ethyltoluene	++++ 0.8311	0.8416 0.8990	0.8896 1.0959	0.6810 1.0745	0.8145	Ave	0.8909				15.0		30.0				
1,3,5-Trimethylbenzene	0.4938 0.3981	0.4061 0.4350	0.4303 0.5543	0.3429 0.5787	0.3917	Ave	0.4479				18.0		30.0				
Alpha Methyl Styrene	++++ 0.3207	++++ 0.3696	0.2496 0.4870	0.2079 ++++	0.2910	Ave	0.3209				31.0	*	30.0				
Decane	0.6374 0.5292	0.5113 0.5642	0.5207 0.6272	0.4260 0.5826	0.5375	Ave	0.5485				12.0		30.0				
tert-Butylbenzene	0.9408 0.7767	0.8087 0.8608	0.8237 1.1089	0.6758 1.1051	0.7724	Ave	0.8748				17.0		30.0				
1,2,4-Trimethylbenzene	0.8860 0.7036	0.6832 0.7761	0.7207 0.9851	0.5785 0.9682	0.6901	Ave	0.7768				18.0		30.0				
sec-Butylbenzene	1.2822 1.0386	1.0421 1.1381	1.0626 1.4231	0.8765 1.3609	1.0370	Ave	1.1401				16.0		30.0				
1,3-Dichlorobenzene	0.6165 0.4316	0.4587 0.4814	0.4606 0.6381	0.3506 0.7371	0.4206	Ave	0.5106				24.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Benzyl chloride	++++ 0.5194	0.5259 0.5969	0.5293 0.7868	0.4001 0.8036	0.4796	Ave	0.5802				25.0		30.0				
1,4-Dichlorobenzene	0.5812 0.3946	0.4226 0.4405	0.4275 0.6043	0.3295 0.6990	0.3777	Ave	0.4752				26.0		30.0				
4-Isopropyltoluene	1.0099 0.8431	0.8059 0.9293	0.8117 1.1712	0.6811 1.1487	0.8256	Ave	0.9141				18.0		30.0				
1,2,3-Trimethylbenzene	++++ 0.5818	0.6038 0.6245	0.6126 0.7801	0.5165 0.7656	0.5791	Ave	0.6330				15.0		40.0				
Butylcyclohexane	0.8668 0.6633	0.7527 0.6998	0.6856 0.7692	0.5955 0.7699	0.6994	Ave	0.7225				11.0		40.0				
1,2-Dichlorobenzene	0.5645 0.4286	0.4298 0.4797	0.4422 0.6537	0.3508 0.7309	0.4147	Ave	0.4994				25.0		30.0				
Indane	++++ 0.6382	0.6553 0.7031	0.6522 0.9291	0.5340 0.9433	0.6228	Ave	0.7098				21.0		40.0				
Butylbenzene	0.9460 0.7809	0.7473 0.8777	0.7741 1.1149	0.6052 1.0417	0.7458	Ave	0.8482				19.0		30.0				
Indene	0.7207 0.5892	0.5164 0.6812	0.5351 0.9374	0.4341 ++++	0.5474	Ave	0.6202				25.0		40.0				
Undecane	++++ 0.5055	0.5604 0.5578	0.5305 0.6932	0.4489 0.6332	0.4907	Ave	0.5525				14.0		30.0				
1,2-Dimethyl-4-Ethylbenzene	0.9638 0.7782	0.7650 0.8711	0.7308 1.1243	0.6104 1.1208	0.7493	Ave	0.8571				21.0		40.0				
1,2,4,5-Tetramethylbenzene	++++ 0.8069	0.8466 0.9215	0.7831 1.2072	0.6737 ++++	0.7884	Ave	0.8611				20.0		40.0				
1,2,3,5-Tetramethylbenzene	0.6914 0.4976	0.5735 0.5663	0.5216 0.7214	0.4291 ++++	0.4957	Ave	0.5621				18.0		40.0				
1,2,3,4-Tetramethylbenzene	++++ 0.6318	0.7601 0.7192	0.6390 0.9406	0.5613 ++++	0.6223	Ave	0.6963				18.0		40.0				
Dodecane	++++ 0.5222	0.6219 0.5549	0.5826 0.6951	0.4960 0.5857	0.5184	Ave	0.5721				11.0		30.0				
1,2,4-Trichlorobenzene	++++ 0.1978	0.2393 0.2353	0.1875 0.3503	0.1589 ++++	0.1860	Ave	0.2222				28.0		30.0				
Naphthalene	++++ 0.5440	0.6054 0.6234	0.5204 0.8528	0.4570 0.9116	0.5206	Ave	0.6294				26.0		30.0				
Benzo(b)thiophene	++++ 0.3584	0.4411 0.4226	0.3316 0.5886	0.2931 0.6439	0.3327	Ave	0.4265				30.0		40.0				
Hexachlorobutadiene	++++ 0.3710	0.4779 0.4186	0.4112 0.5814	0.3414 0.6501	0.3803	Ave	0.4540				24.0		30.0				
1,2,3-Trichlorobenzene	++++ 0.2455	0.2949 0.2721	0.2520 0.3767	0.2213 0.3886	0.2456	Ave	0.2871				22.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylnaphthalene	+++++	0.0753	0.0599	0.0578	0.0666	Ave		0.0669			31.0		40.0				
	0.0679	0.0753	0.1029	0.0298													
1-Methylnaphthalene	+++++	0.0816	0.0695	0.0679	0.0735	Ave		0.0690			31.0		40.0				
	0.0730	0.0750	0.0927	0.0189													
4-Bromofluorobenzene (Surr)	0.6600	0.6934	0.7134	0.6897	0.7189	Ave		0.7075			3.1		30.0				
	0.7176	0.7283	0.7225	0.7235													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Chlorodifluoromethane	CBM	Ave	++++ 65895	3504 127336	7250 267278	13846 505684	32729	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	++++ 203864	++++ 380299	22123 770175	44922 1458925	107699	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14707 677907	29444 1288306	63957 2653935	134818 4882515	334566	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	1810 75510	3561 142083	7684 285173	15228 494916	37407	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	CBM	Ave	11183 515628	20686 1010496	47157 2110535	93560 3992171	251641	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	++++ 339724	++++ 590590	35881 1285979	64164 2205919	194092	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl chloride	CBM	Ave	5530 254791	10730 481131	24848 984783	51116 1770210	125449	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3743 175277	7941 332507	17011 680934	35435 1224939	87385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	8874 348021	17319 651614	35698 1303426	71879 2267439	173714	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	5840 250854	11324 483336	24480 1011303	50293 1918491	123346	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2644 113435	4956 220811	11208 455037	23148 852776	56692	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	++++ 281128	++++ 536616	27045 988374	58098 1841235	144711	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	4538 216421	9051 427699	20665 901463	42200 1753642	105872	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	++++ 280290	14009 537867	29844 1083786	57096 1976924	140258	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Trichlorofluoromethane	CBM	Ave	12337 594264	24616 1161422	56802 2393900	116368 4559353	292818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	++++ 53042	2906 99357	5224 250642	8002 437980	27013	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 59141	2885 106520	6174 251140	11328 477609	29505	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 101503	++++ 119169	++++ 235590	24784 ++++	72907	++++ 2.00	++++ 4.00	++++ 8.00	0.400 ++++	1.00
Isopropyl alcohol	CBM	Ave	++++ 252925	++++ 503623	24457 1005537	52512 1891993	127722	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Pentane	CBM	Ave	++++ 37045	1358 73196	3459 151771	7244 289822	18413	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	++++ 179455	8583 329259	17680 699710	29228 1293462	94508	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	4524 184446	7963 372110	17971 763429	36039 1499326	90818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	++++ 272663	15116 583041	30258 1230118	66363 2357157	154458	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2480 99812	4249 192415	9278 432058	15228 846522	49792	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	8746 409082	17027 813723	38956 1646524	79676 3210350	201012	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 180581	++++ 352418	19809 670417	36329 1306630	89695	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	++++ 183622	9954 355060	20200 664240	35748 1253863	90749	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	13903 641989	26783 1258326	61892 2556516	124614 4789123	313388	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	5788 225627	9917 451426	21641 850575	43537 1705804	110071	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	12748 522389	23860 1006835	51760 1918287	102693 3402713	259682	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	++++ 356577	15796 673998	33243 1374295	59586 2584260	180801	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	8337 362051	15825 703411	36976 1269839	65235 2513809	183945	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	++++ 322885	14224 596834	29176 1340341	48718 2572051	159904	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	++++ 69610	++++ 125222	5876 243895	11813 487204	35887	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
C6 Range	CBM	Ave	++++ 2011864	++++ 3810714	202396 7329744	410756 14110311	1022928	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 5
Hexane	CBM	Ave	4534 180662	8251 346825	18317 651848	34438 1264226	89704	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	++++ 200551	8788 388357	20156 706076	35319 1451411	100896	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	++++ 292814	13104 549427	26903 1084225	46769 2092150	144504	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9816 388598	17711 755016	40765 1379316	71523 2790275	200359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	++++ 156408	7748 291715	15807 599765	27476 1179659	78446	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	9319 422225	18227 807351	42198 1426505	75903 2968435	216140	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	5688 248475	11010 473508	23652 840072	43695 1727411	125298	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	++++ 63073	++++ 133536	++++ 287181	++++ 562689	30453	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	++++ 540059	26808 1059675	53761 1886757	97096 3816101	273136	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2187 110363	4766 212371	10543 372992	20873 734107	54874	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	8987 443845	18074 893077	43678 1616119	84912 3477511	236385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2819 127368	5679 243353	12974 450381	23214 895905	65875	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	++++ 339429	15107 650293	34350 1166754	60186 2407949	173039	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 916367	43691 1747868	97042 3277019	173617 6188593	474988	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	++++ 191563	8567 367648	19608 706282	33732 1414497	96771	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	4380 187039	8407 352739	16678 610860	30869 1374081	95014	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5942 255418	11412 487687	26470 953846	46631 2020928	128335	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5681 238917	10647 456395	23612 853084	41095 1782109	121268	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	8741 383587	16281 749991	35477 1438067	63861 2968189	190788	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1394 63279	2681 131505	5872 263409	11964 535040	31775	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	++++ 169117	7159 333332	14809 682355	24813 1312475	82170	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methylcyclohexane	DFB	Ave	8207 363492	16589 683968	37072 1256319	65787 2529310	188580	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	7697 336876	13754 661355	25379 1423315	52154 2713031	163854	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6314 261947	11409 507092	22640 928432	42126 2069482	131004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	++++ 234824	9630 446194	20295 879585	35040 1963516	117538	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	++++ 519669	23320 985546	47832 1869974	79532 4086312	264651	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	CBZ	Ave	++++ 1258419	53595 2348373	134690 4461089	190190 9697293	633377	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 166783	7143 313466	14877 586633	26153 1314579	84373	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	++++ 477759	20765 895031	42390 1636492	73689 3652163	237579	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	++++ 476584	20169 900038	42847 1654764	73553 3714685	241139	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	3616 161365	6711 329061	12124 755508	25873 1451418	79350	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	CBZ	Ave	++++ 1829147	++++ 3391784	242838 6451566	360891 12490633	997149	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	++++ 185219	8228 363887	17415 718344	31719 1469379	94899	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	7103 362439	12900 735197	28336 1496245	54305 3347546	174527	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	++++ 283094	11550 539062	24689 1055365	42940 2473337	142171	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5383 226667	10252 437989	22395 851426	38555 1888055	112818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	9499 423684	18101 827157	38702 1616541	67168 3736744	213586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	++++ 563663	28479 1076318	53631 1960561	107761 3283977	299289	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	++++ 566249	24423 1067867	53929 2251254	85699 4621160	284603	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	++++ 450374	18507 856076	41218 1757131	66902 3695934	225682	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	21806 877038	36838 1665289	83497 3582524	133531 7138010	437938	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	7310 359753	14980 701033	29027 1384118	57485 2746405	182421	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Bromoform	CBZ	Ave	4835 285787	8612 603733	19445 1345387	36819 3400531	134430	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	5732 329540	10790 638753	24244 1446724	41766 3101488	156161	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	++++ 451038	19871 854151	45016 1860295	72917 3743538	232024	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	7957 370844	14012 731970	30304 1658051	58192 3301073	183648	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	1802 88416	3358 174026	7573 398010	13592 836915	43710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	++++ 640978	28138 1246662	60842 2789508	100706 5530866	322210	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	3351 169743	6000 337130	14173 814479	24502 1741082	81294	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	3868 172536	7042 335960	15581 748591	26819 1667404	86903	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	++++ 602615	23930 1212360	51618 2848420	89983 5599605	291767	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	6172 288648	11546 586616	24966 1440763	45307 3015712	140307	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	++++ 232501	++++ 498439	14480 1265706	27470 ++++	104233	++++ 2.00	++++ 4.00	0.160 8.00	0.400 ++++	1.00
Decane	CBZ	Ave	7967 383736	14539 760833	30213 1630218	56293 3036195	192549	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	11758 563181	22994 1160846	47790 2882125	89301 5759135	276681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	11073 510168	19426 1046672	41818 2560408	76446 5045591	247215	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	16025 753094	29629 1534847	61653 3698797	115821 7092519	371473	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	7705 312974	13041 649208	26725 1658482	46329 3841334	150681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	++++ 376583	14954 804987	30711 2044904	52876 4188073	171797	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	7264 286084	12015 593980	24804 1570678	43546 3642996	135286	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	12622 611347	22915 1253285	47097 3044134	90008 5986441	295742	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	++++ 421832	17168 842178	35544 2027503	68250 3990183	207460	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	10834 480940	21401 943677	39782 1999366	78686 4012634	250533	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	CBZ	Ave	7055 310746	12220 646950	25655 1699055	46356 3809042	148540	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indane	CBZ	Ave	++++ 462728	18631 948230	37844 2414878	70569 4915942	223109	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	11823 566214	21249 1183694	44913 2897714	79971 5428724	267179	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	9007 427230	14683 918630	31046 2436478	57358 ++++	196085	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Undecane	CBZ	Ave	++++ 366563	15935 752219	30780 1801735	59319 3299916	175793	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	12046 564256	21750 1174726	42402 2922288	80666 5841120	268427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	++++ 585097	24071 1242657	45438 3137565	89023 ++++	282429	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8641 360803	16306 763734	30265 1875036	56702 ++++	177582	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	++++ 458134	21613 969881	37074 2444837	74166 ++++	222908	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Dodecane	CBZ	Ave	++++ 378646	17682 748275	33803 1806559	65545 3052464	185701	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 143447	6805 317385	10877 910586	21000 ++++	66621	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Naphthalene	CBZ	Ave	++++ 394479	17213 840765	30193 2216472	60395 4750981	186491	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzo (b) thiophene	CBZ	Ave	++++ 259843	12541 569891	19240 1529823	38727 3355982	119182	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	++++ 268985	13588 564546	23861 1511092	45108 3388138	136244	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 178007	8385 366981	14621 979161	29244 2025463	87992	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	++++ 307709	13381 634411	21725 1671920	47754 969606	149184	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	++++ 331073	14503 631891	25220 1506542	56061 616839	164584	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	824893 1040623	985783 982151	1034797 938909	911404 942607	1030162	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D
 Lims ID: IC L1 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Mar-2014 12:40:30 ALS Bottle#: 8 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL1,,1,1,,ICAL 0.04
 Misc. Info.: J031114I,TO15,,140-0000516-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:46:11 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:46:11

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	362747	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1614195	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1249833	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	90	824893	3.73	
6 Chlorodifluoromethane	67	3.965	3.960	0.005	90	2070	0.0553	
7 Propene	41	3.975	3.973	0.002	94	6874	0.0618	
8 Dichlorodifluoromethane	85	4.035	4.029	0.006	90	14707	0.0409	
9 Chloromethane	52	4.239	4.230	0.009	40	1810	0.0443	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	84	11183	0.0412	
11 Acetaldehyde	44	4.400	4.398	0.002	99	23295	0.6509	
12 Vinyl chloride	62	4.422	4.419	0.003	30	5530	0.0411	
14 Butadiene	54	4.519	4.517	0.002	56	3743	0.0401	
13 Butane	43	4.519	4.517	0.002	83	8874	0.0464	
15 Bromomethane	94	4.868	4.871	-0.003	83	5840	0.0427	
16 Chloroethane	64	5.024	5.027	-0.003	67	2644	0.0427	
17 Ethanol	31	5.127	5.122	0.005	92	10598	0.3639	
18 Vinyl bromide	106	5.358	5.357	0.001	66	4538	0.0390	
19 2-Methylbutane	43	5.406	5.411	-0.005	73	8284	0.0538	
20 Trichlorofluoromethane	101	5.643	5.647	-0.004	75	12337	0.0391	
21 Acrolein	56	5.654	5.650	0.004	2	1845	0.0623	
22 Acetonitrile	40	5.718	5.720	-0.002	72	365	0.0112	
23 Acetone	58	5.783	5.776	0.007	81	13132	0.2547	
24 Isopropyl alcohol	45	5.869	5.858	0.011	45	8126	0.0597	
25 Pentane	72	5.880	5.884	-0.004	84	563	0.0288	
26 Ethyl ether	31	6.073	6.059	0.014	82	6445	0.0679	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	54	4524	0.0444	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	68	8253	0.0492	
29 Acrylonitrile	53	6.498	6.498	0.0	35	2480	0.0460	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	77	8746	0.0400	
31 Methylene Chloride	84	6.757	6.759	-0.002	87	6749	0.0695	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	67	6354	0.0629	
33 Carbon disulfide	76	6.940	6.942	-0.002	91	13903	0.0407	
34 trans-1,2-Dichloroethene	96	7.601	7.609	-0.008	64	5788	0.0472	
35 2-Methylpentane	43	7.633	7.631	0.002	88	12748	0.0455	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	58	9876	0.0533	
37 1,1-Dichloroethane	63	8.037	8.041	-0.004	29	8337	0.0436	
38 Vinyl acetate	43	8.145	8.141	0.004	82	8474	0.0505	
39 2-Butanone (MEK)	72	8.607	8.601	0.006	84	2486	0.0724	
40 Hexane	56	8.645	8.642	0.003	81	4534	0.0465	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	52	5401	0.0516	
42 Ethyl acetate	43	9.237	9.229	0.008	82	8452	0.0565	
43 Chloroform	83	9.398	9.403	-0.005	14	9816	0.0464	
44 Tetrahydrofuran	42	9.839	9.816	0.023	86	4727	0.0563	
45 1,1,1-Trichloroethane	97	10.447	10.450	-0.003	62	9319	0.0423	
46 1,2-Dichloroethane	62	10.549	10.547	0.002	46	5688	0.0454	
47 n-Butanol	31	10.974	10.958	0.016	70	3817	0.1082	
48 Benzene	78	11.033	11.033	0.0	68	14955	0.0540	
49 Cyclohexane	69	11.039	11.040	-0.001	65	2187	0.0400	
50 Carbon tetrachloride	117	11.060	11.059	0.001	85	8987	0.0393	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	77	2819	0.0431	
52 Thiophene	84	11.292	11.297	-0.005	47	8045	0.0470	
53 Isooctane	57	11.765	11.771	-0.006	91	23809	0.0503	
54 n-Heptane	71	12.131	12.130	0.001	80	4763	0.0486	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	55	4380	0.0468	
56 Trichloroethene	130	12.254	12.252	0.002	64	5942	0.0442	
57 Dibromomethane	93	12.330	12.332	-0.002	78	5681	0.0461	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	76	8741	0.0447	
58 1,4-Dioxane	88	12.497	12.483	0.014	40	1394	0.0416	
60 Methyl methacrylate	41	12.550	12.548	0.002	38	4643	0.0553	
61 Methylcyclohexane	83	13.013	13.013	0.0	80	8207	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.382	0.008	81	7697	0.0455	
63 cis-1,3-Dichloropropene	75	13.443	13.448	-0.005	57	6314	0.0475	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	59	5825	0.0562	
65 Toluene	91	14.261	14.262	-0.001	71	13203	0.0569	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	41	3627	0.0494	
67 2-Methylthiophene	97	14.412	14.413	-0.001	66	11278	0.0541	
68 3-Methylthiophene	97	14.611	14.612	-0.001	67	11032	0.0528	
69 2-Hexanone	58	14.702	14.694	0.008	77	3616	0.0476	
70 n-Octane	85	14.928	14.928	0.0	82	4390	0.0516	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	53	7103	0.0438	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	58	6293	0.0500	
73 Tetrachloroethene	129	15.391	15.393	-0.002	77	5383	0.0498	
75 Chlorobenzene	112	16.251	16.256	-0.005	75	9499	0.0480	
74 2,3-Dimethylheptane	43	16.262	16.260	0.002	91	14337	0.0562	
76 Ethylbenzene	91	16.536	16.536	0.0	73	14130	0.0552	
77 2-Ethylthiophene	97	16.633	16.638	-0.005	30	10632	0.0530	
78 m-Xylene & p-Xylene	91	16.698	16.696	0.002	92	21806	0.1055	
79 n-Nonane	57	17.096	17.098	-0.002	81	7310	0.0455	
81 Bromoform	173	17.150	17.149	0.001	52	4835	0.0377	
80 Styrene	104	17.155	17.157	-0.002	57	5732	0.0404	
82 o-Xylene	91	17.220	17.220	0.0	75	12031	0.0574	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	50	7957	0.0465	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	64	1802	0.0439	
85 Isopropylbenzene	105	17.795	17.793	0.002	80	15689	0.0526	
86 N-Propylbenzene	120	18.312	18.310	0.002	84	3351	0.0426	
87 2-Chlorotoluene	126	18.360	18.357	0.003	63	3868	0.0471	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	79	14155	0.0509	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	80	6172	0.0441	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	51	4051	0.0404	
91 n-Decane	57	18.791	18.793	-0.003	58	7967	0.0465	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	74	11758	0.0430	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.003	58	11073	0.0456	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	87	16025	0.0450	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	64	7705	0.0483	
96 Benzyl chloride	91	19.291	19.288	0.003	77	9484	0.0523	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	73	7264	0.0489	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	58	12622	0.0442	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	64	10198	0.0516	
100 Butylcyclohexane	83	19.458	19.460	-0.002	82	10834	0.0480	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	82	11897	0.0536	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	62	7055	0.0452	
103 n-Butylbenzene	91	19.775	19.777	-0.002	83	11823	0.0446	
104 Indene	116	19.780	19.781	-0.001	71	9007	0.0465	
105 Undecane	57	20.071	20.068	0.003	79	8831	0.0512	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.138	-0.003	67	12046	0.0450	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	80	14008	0.0521	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	69	8641	0.0492	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	72	10802	0.0496	
110 Dodecane	57	21.147	21.148	-0.001	72	10350	0.0579	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	39	4076	0.0587	
112 Naphthalene	128	21.529	21.527	0.002	87	10827	0.0551	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	65	9115	0.0684	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	66	8308	0.0586	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	55	5282	0.0589	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	79	9998	0.4781	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	83	10034	0.4652	
139 Isopropyl ether	45	8.806	8.794	0.012	85	11786	NR	
142 Tert-butyl ethyl ether	59	9.500	9.487	0.013	66	10168	NR	
140 Tert-amyl methyl ether	73	11.496	11.482	0.014	50	9463	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	71508	0.0675	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	31251	0.0553	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	84643	0.0967	
S 124 Xylenes, Total	100				0		0.1629	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L1

Lab Sample ID:

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

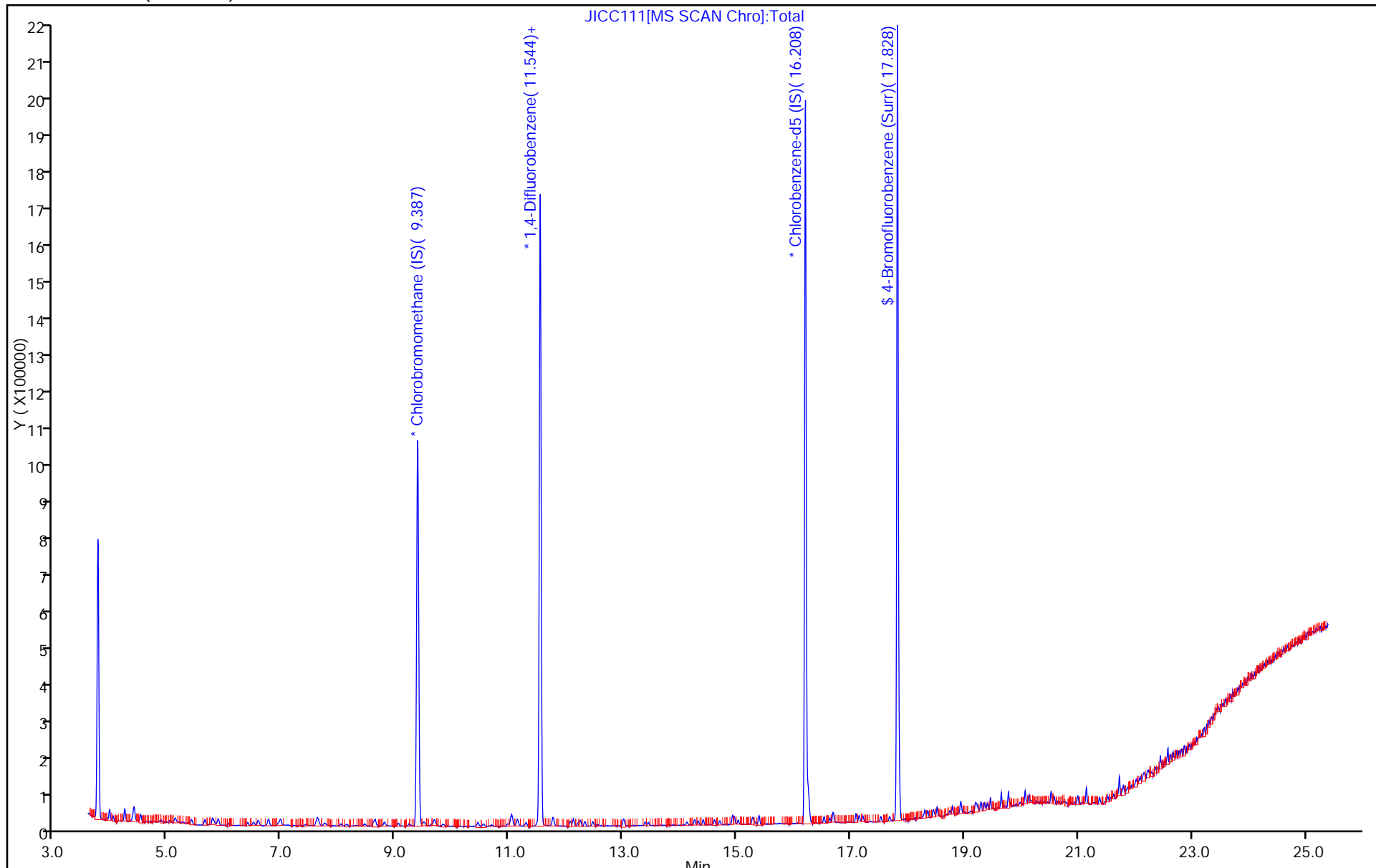
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

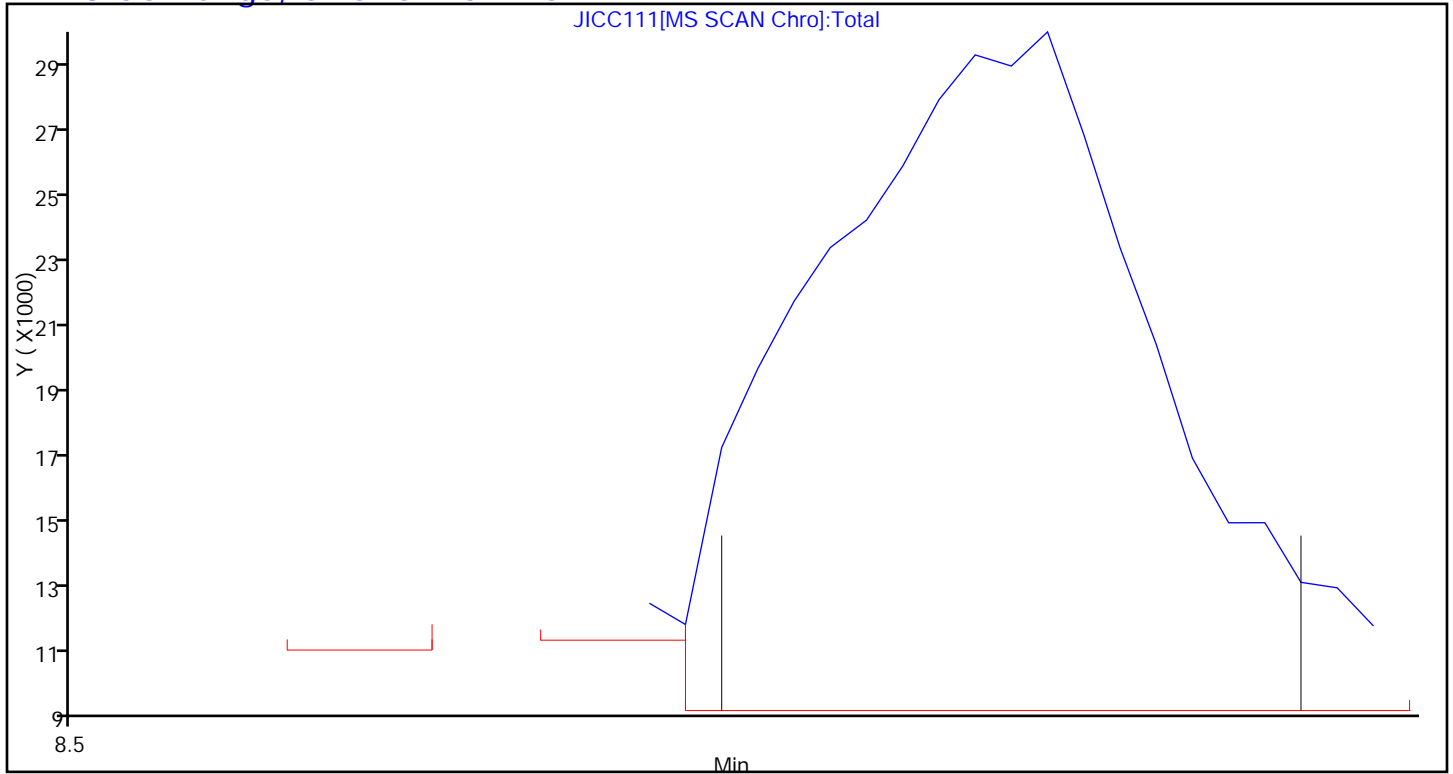
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30 Instrument ID: MJ

Lims ID: IC L1 Lab Sample ID:

Client ID:

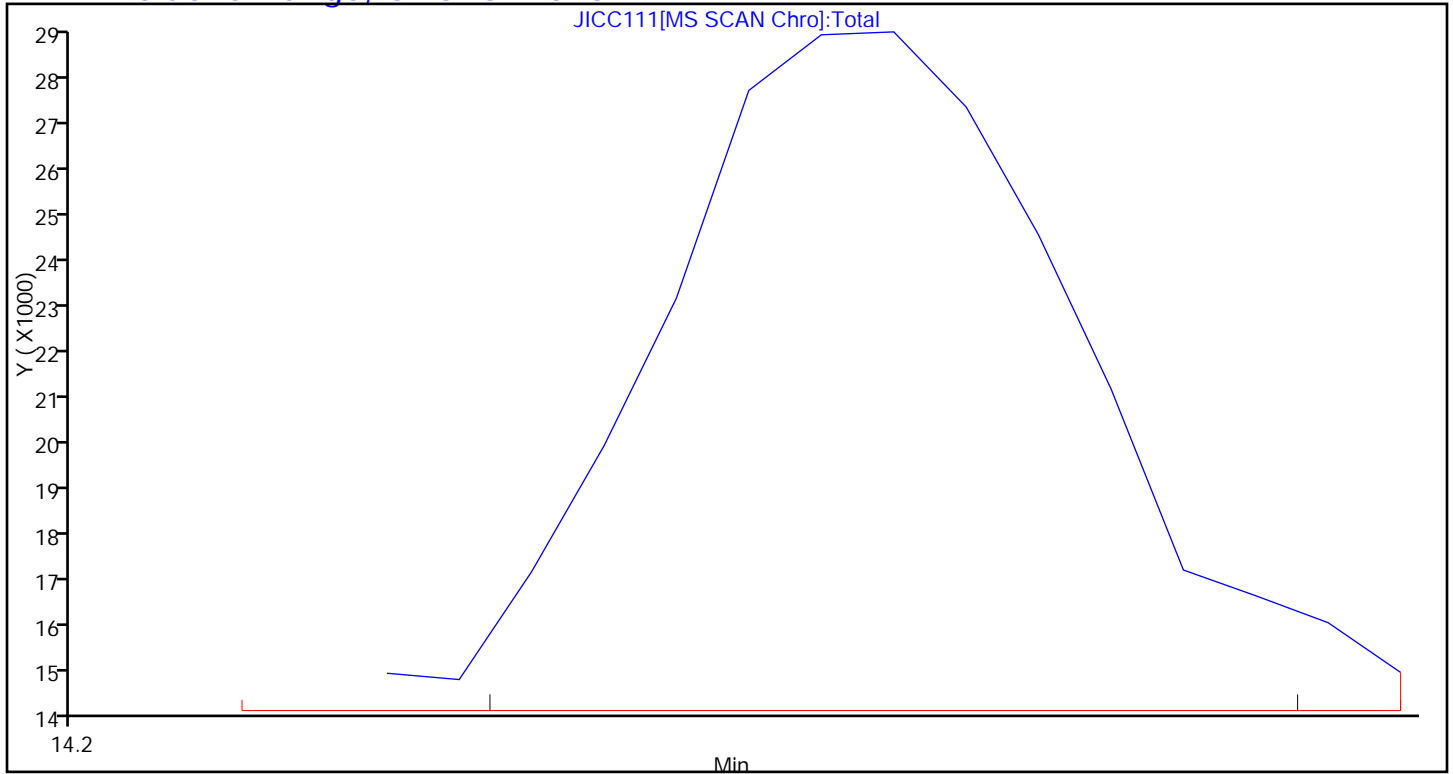
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30 Instrument ID: MJ

Lims ID: IC L1 Lab Sample ID:

Client ID:

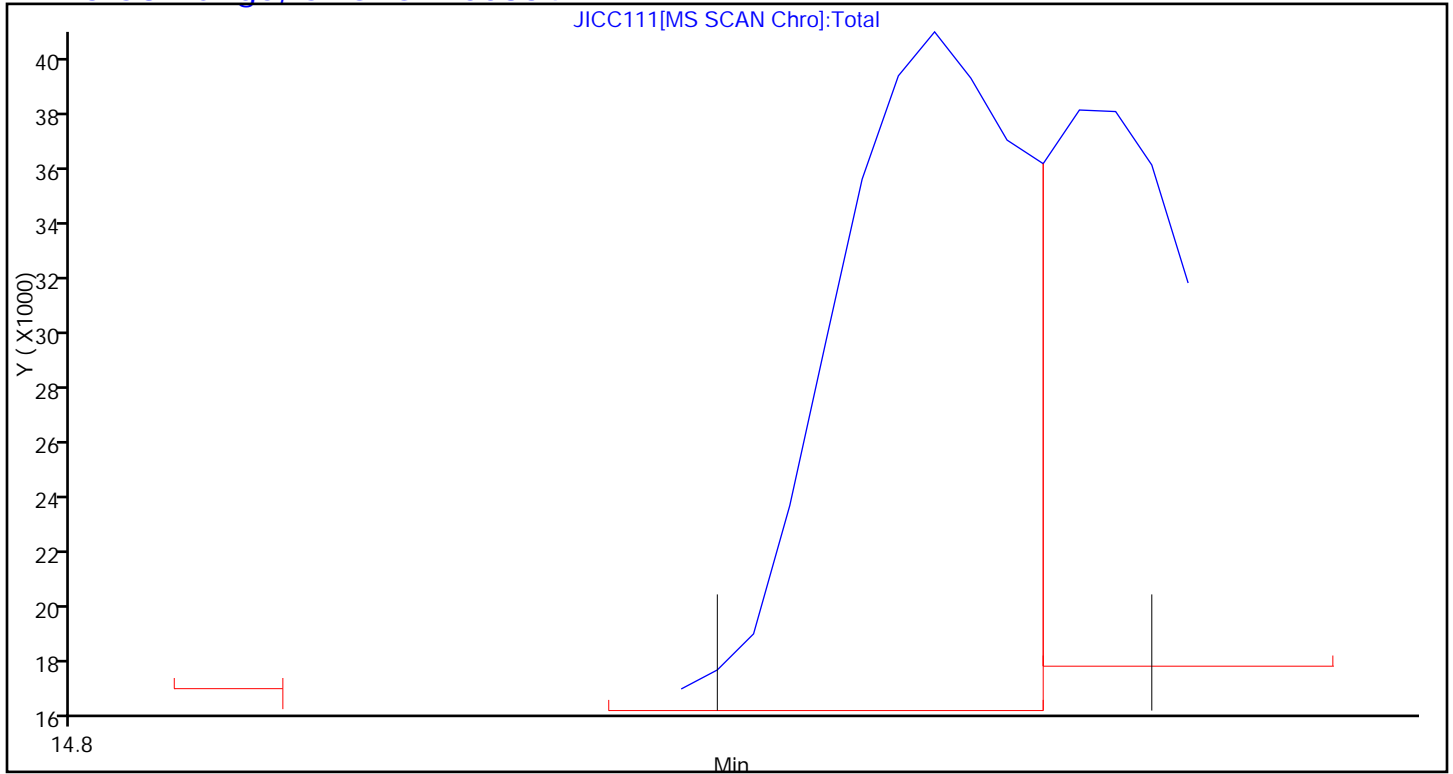
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D
 Lims ID: IC L2 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Mar-2014 13:35:30 ALS Bottle#: 8 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL2,,1,2,,ICAL 0.08
 Misc. Info.: J031114I,TO15,,140-0000516-003
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	351959	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1697921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1421637	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.825	-0.003	90	985783	3.92	
6 Chlorodifluoromethane	67	3.965	3.960	0.004	90	3504	0.0965	
7 Propene	41	3.975	3.973	0.002	98	12138	0.1125	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	95	29444	0.0845	
9 Chloromethane	52	4.228	4.230	-0.002	90	3561	0.0899	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	88	20686	0.0786	
11 Acetaldehyde	44	4.400	4.398	0.002	99	45343	1.31	
12 Vinyl chloride	62	4.416	4.419	-0.003	67	10730	0.0822	
14 Butadiene	54	4.519	4.517	0.002	58	7941	0.0876	
13 Butane	43	4.519	4.517	0.002	87	17319	0.0933	
15 Bromomethane	94	4.868	4.871	-0.003	88	11324	0.0853	
16 Chloroethane	64	5.030	5.027	0.003	66	4956	0.0826	
17 Ethanol	31	5.126	5.122	0.004	94	18689	0.6614	
18 Vinyl bromide	106	5.358	5.357	0.001	72	9051	0.0802	
19 2-Methylbutane	43	5.412	5.411	0.001	85	14009	0.0937	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	87	24616	0.0804	
21 Acrolein	56	5.648	5.650	-0.002	1	2906	0.1011	
22 Acetonitrile	40	5.729	5.720	0.009	91	2885	0.0909	
23 Acetone	58	5.788	5.776	0.012	83	21741	0.4346	
24 Isopropyl alcohol	45	5.863	5.858	0.005	57	14698	0.1113	
25 Pentane	72	5.885	5.884	0.001	84	1358	0.0717	
26 Ethyl ether	31	6.068	6.059	0.009	82	8583	0.0932	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	81	7963	0.0806	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	75	15116	0.0929	
29 Acrylonitrile	53	6.498	6.498	0.0	40	4249	0.0812	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	83	17027	0.0802	
31 Methylene Chloride	84	6.756	6.759	-0.003	91	10876	0.1155	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	80	9954	0.1016	
33 Carbon disulfide	76	6.939	6.942	-0.003	98	26783	0.0809	
34 trans-1,2-Dichloroethene	96	7.606	7.609	-0.003	85	9917	0.0833	
35 2-Methylpentane	43	7.628	7.631	-0.003	86	23860	0.0879	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	84	15796	0.0879	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	65	15825	0.0852	
38 Vinyl acetate	43	8.144	8.141	0.003	99	14224	0.0874	
39 2-Butanone (MEK)	72	8.612	8.601	0.011	91	4259	0.1278	
40 Hexane	56	8.645	8.642	0.003	85	8251	0.0872	
41 cis-1,2-Dichloroethene	96	9.048	9.052	-0.004	67	8788	0.0865	
42 Ethyl acetate	43	9.236	9.229	0.007	83	13104	0.0903	
43 Chloroform	83	9.398	9.403	-0.005	15	17711	0.0864	
44 Tetrahydrofuran	42	9.833	9.816	0.017	89	7748	0.0950	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	78	18227	0.0853	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	63	11010	0.0836	
47 n-Butanol	31	10.974	10.958	0.016	72	4071	0.1097	
48 Benzene	78	11.033	11.033	0.0	92	26808	0.0920	
49 Cyclohexane	69	11.038	11.040	-0.002	83	4766	0.0829	
50 Carbon tetrachloride	117	11.055	11.059	-0.004	87	18074	0.0751	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	82	5679	0.0826	
52 Thiophene	84	11.291	11.297	-0.006	67	15107	0.0840	
53 Isooctane	57	11.770	11.771	-0.001	91	43691	0.0878	
54 n-Heptane	71	12.131	12.130	0.001	80	8567	0.0832	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	69	8407	0.0854	
56 Trichloroethene	130	12.249	12.252	-0.003	73	11412	0.0807	
57 Dibromomethane	93	12.330	12.332	-0.002	84	10647	0.0822	
59 Dichlorobromomethane	83	12.469	12.472	-0.003	79	16281	0.0792	
58 1,4-Dioxane	88	12.496	12.483	0.013	55	2681	0.0760	
60 Methyl methacrylate	41	12.550	12.548	0.002	49	7159	0.0810	
61 Methylcyclohexane	83	13.013	13.013	0.0	88	16589	0.0846	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	83	13754	0.0773	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	68	11409	0.0817	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	67	9630	0.0817	
65 Toluene	91	14.261	14.262	-0.001	79	23320	0.0884	
66 1,1,2-Trichloroethane	83	14.325	14.328	-0.003	76	7143	0.0855	
67 2-Methylthiophene	97	14.411	14.413	-0.002	76	20765	0.0876	
68 3-Methylthiophene	97	14.610	14.612	-0.002	72	20169	0.0848	
69 2-Hexanone	58	14.691	14.694	-0.003	77	6711	0.0777	
70 n-Octane	85	14.928	14.928	0.0	90	8228	0.0850	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	71	12900	0.0699	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	75	11550	0.0806	
73 Tetrachloroethene	129	15.390	15.393	-0.003	82	10252	0.0834	
75 Chlorobenzene	112	16.257	16.256	0.001	30	18101	0.0803	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	93	28479	0.0981	
76 Ethylbenzene	91	16.536	16.536	0.0	83	24423	0.0838	
77 2-Ethylthiophene	97	16.639	16.638	0.001	51	18507	0.0811	
78 m-Xylene & p-Xylene	91	16.692	16.696	-0.004	95	36838	0.1567	
79 n-Nonane	57	17.096	17.098	-0.002	89	14980	0.0819	
81 Bromoform	173	17.150	17.149	0.001	64	8612	0.0591	
80 Styrene	104	17.155	17.157	-0.002	78	10790	0.0668	
82 o-Xylene	91	17.220	17.220	0.0	84	19871	0.0834	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	77	14012	0.0720	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	73	3358	0.0719	
85 Isopropylbenzene	105	17.790	17.793	-0.003	83	28138	0.0829	
86 N-Propylbenzene	120	18.312	18.310	0.002	90	6000	0.0670	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	77	7042	0.0754	
88 4-Ethyltoluene	105	18.451	18.454	-0.003	85	23930	0.0756	
89 1,3,5-Trimethylbenzene	120	18.521	18.524	-0.003	84	11546	0.0725	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	64	6489	0.0569	
91 n-Decane	57	18.790	18.793	-0.003	77	14539	0.0746	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	81	22994	0.0740	
93 1,2,4-Trimethylbenzene	105	18.946	18.949	-0.003	77	19426	0.0704	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	89	29629	0.0731	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	83	13041	0.0719	
96 Benzyl chloride	91	19.285	19.288	-0.003	82	14954	0.0725	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	83	12015	0.0711	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	71	22915	0.0705	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	82	17168	0.0763	
100 Butylcyclohexane	83	19.457	19.460	-0.003	86	21401	0.0833	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	81	18631	0.0739	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	71	12220	0.0688	
103 n-Butylbenzene	91	19.775	19.777	-0.002	90	21249	0.0705	
104 Indene	116	19.780	19.781	-0.001	81	14683	0.0666	
105 Undecane	57	20.065	20.068	-0.003	86	15935	0.0811	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	74	21750	0.0714	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.003	87	24071	0.0787	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	81	16306	0.0816	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	84	21613	0.0873	
110 Dodecane	57	21.147	21.148	-0.001	75	17682	0.0870	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	57	6805	0.0862	
112 Naphthalene	128	21.528	21.527	0.001	92	17213	0.0769	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	76	12541	0.0827	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	77	13588	0.0842	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	70	8385	0.0822	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	82	13381	0.5625	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	86	14503	0.5912	
139 Isopropyl ether	45	8.801	8.794	0.007	90	21937	NR	
142 Tert-butyl ethyl ether	59	9.495	9.487	0.008	79	18395	NR	
140 Tert-amyl methyl ether	73	11.490	11.482	0.008	68	17787	NR	
A 118 C6 Range	1	8.639	8.596 - 8.682		0	106564	0.1037	
A 122 Toluene Range	1	14.261	14.231 - 14.291		0	53595	0.0834	
A 123 C8 Range	1	14.928	14.896 - 14.960		0	128220	0.1287	
S 124 Xylenes, Total	100				0		0.2401	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L2

Lab Sample ID:

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

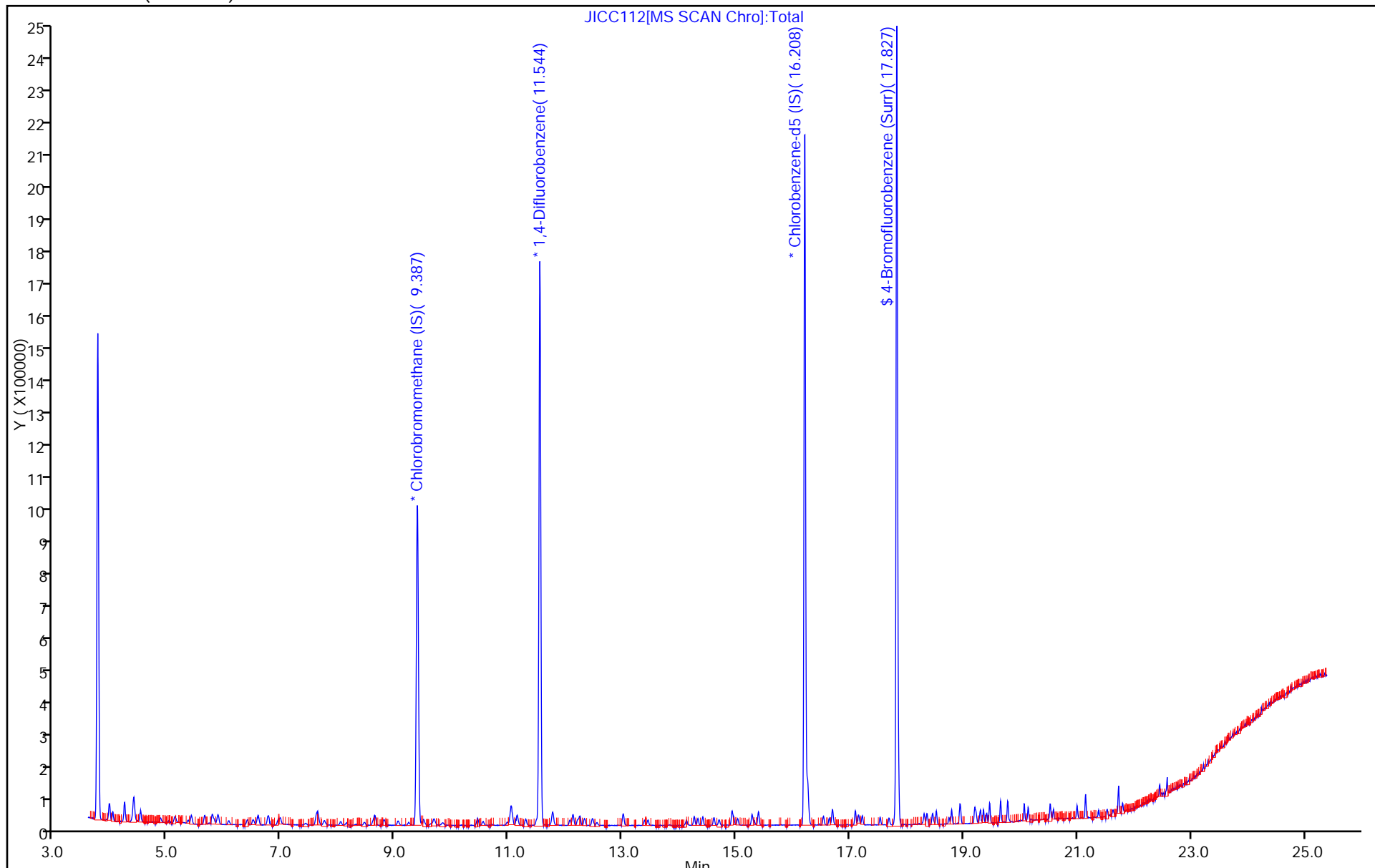
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

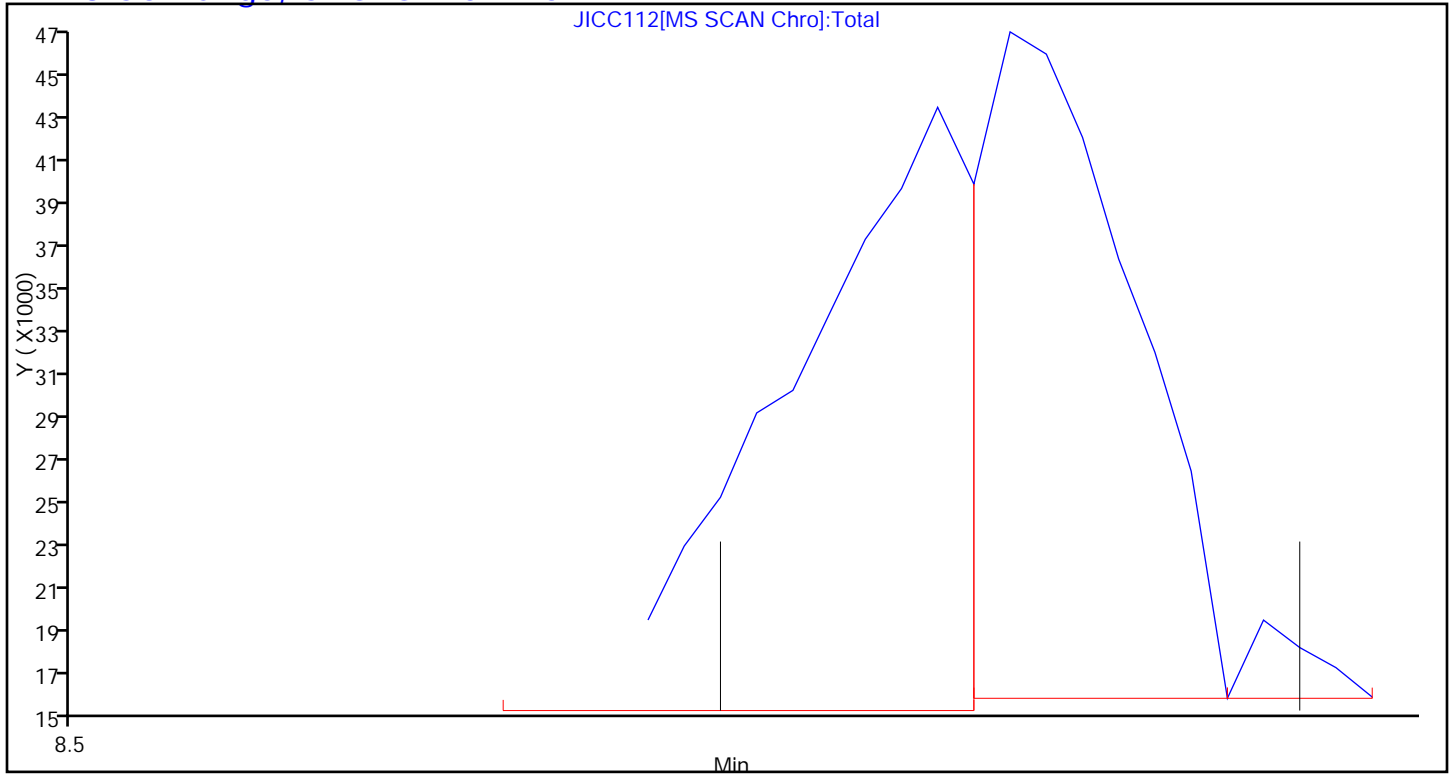
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

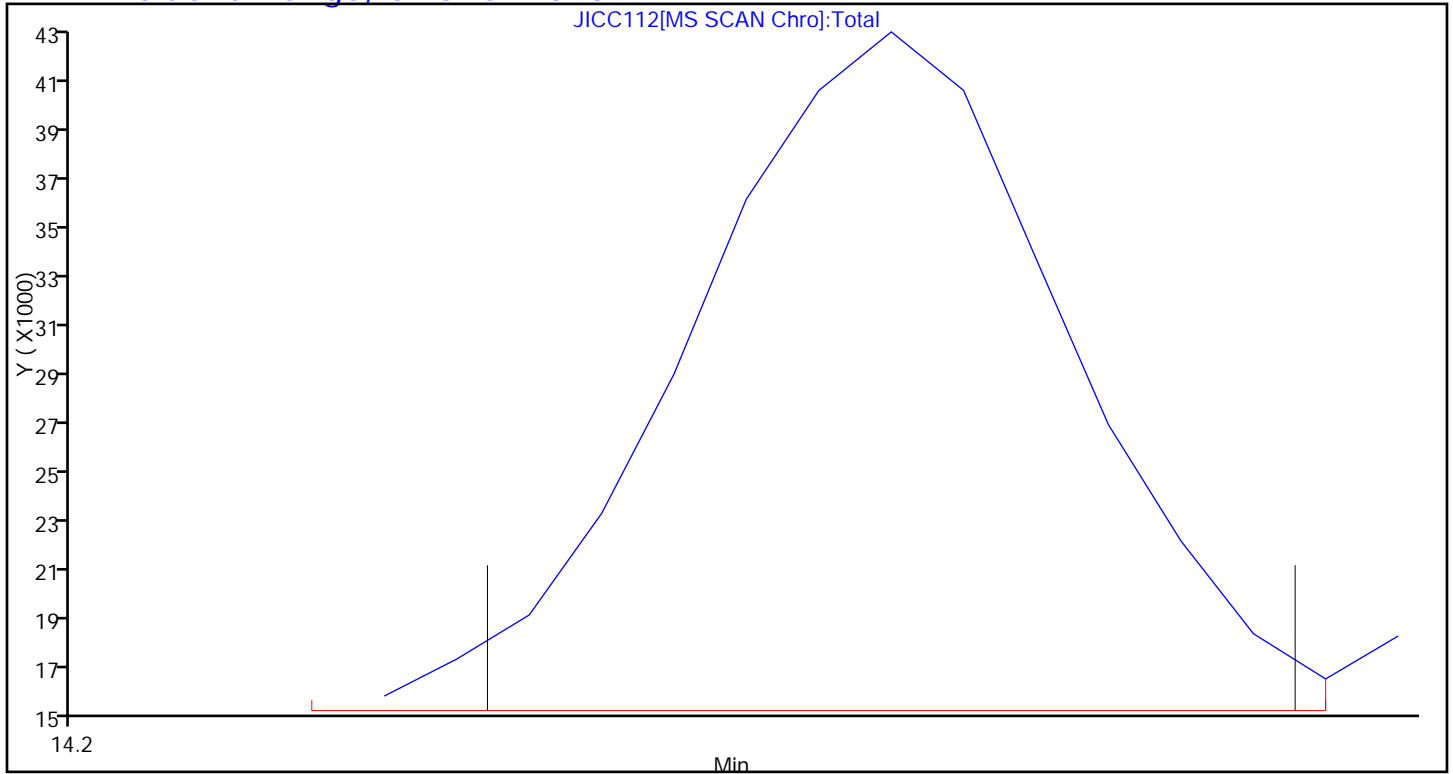
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Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

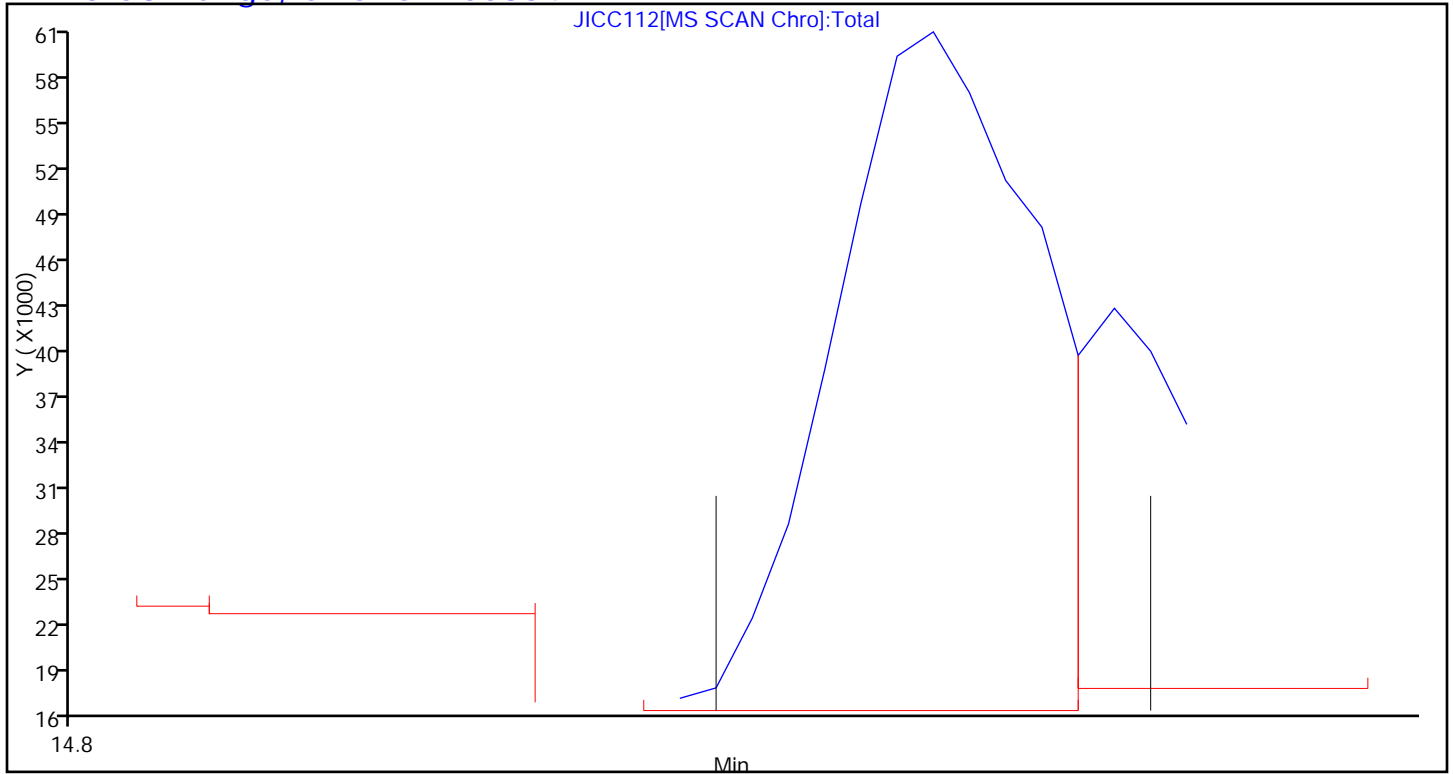
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D
 Lims ID: IC L3 Lab Sample ID: Client 140-535/4-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Mar-2014 14:29:30 ALS Bottle#: 9 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL3,,1,3,,ICAL 0.16
 Misc. Info.: J031114I,TO15,,140-0000516-004
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:45 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.392	-0.004	91	357314	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	94	1704540	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.204	16.208	-0.004	87	1450555	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1034797	4.03	
6 Chlorodifluoromethane	67	3.955	3.960	-0.005	92	7250	0.1966	
7 Propene	41	3.971	3.973	-0.002	99	22123	0.2019	
8 Dichlorodifluoromethane	85	4.025	4.029	-0.004	100	63957	0.1807	
9 Chloromethane	52	4.224	4.230	-0.006	60	7684	0.1911	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.238	-0.004	90	47157	0.1765	
11 Acetaldehyde	44	4.396	4.398	-0.002	98	35881	1.02	
12 Vinyl chloride	62	4.417	4.419	-0.002	87	24848	0.1876	
14 Butadiene	54	4.514	4.517	-0.003	85	17011	0.1848	
13 Butane	43	4.514	4.517	-0.003	87	35698	0.1894	
15 Bromomethane	94	4.869	4.871	-0.002	92	24480	0.1817	
16 Chloroethane	64	5.025	5.027	-0.002	78	11208	0.1839	
17 Ethanol	31	5.117	5.122	-0.005	94	27045	0.9428	
18 Vinyl bromide	106	5.353	5.357	-0.004	93	20665	0.1804	
19 2-Methylbutane	43	5.407	5.411	-0.004	93	29844	0.1967	
20 Trichlorofluoromethane	101	5.644	5.647	-0.003	96	56802	0.1827	
21 Acrolein	56	5.655	5.650	0.005	6	5224	0.1791	
22 Acetonitrile	40	5.719	5.720	-0.001	95	6174	0.1916	
23 Acetone	58	5.778	5.776	0.002	83	15375	0.3027	
24 Isopropyl alcohol	45	5.859	5.858	0.001	69	24457	0.1824	
25 Pentane	72	5.880	5.884	-0.004	93	3459	0.1799	
26 Ethyl ether	31	6.058	6.059	-0.001	88	17680	0.1891	
27 1,1-Dichloroethene	96	6.392	6.399	-0.007	94	17971	0.1791	
28 2-Methyl-2-propanol	59	6.488	6.487	0.001	91	30258	0.1831	
29 Acrylonitrile	53	6.499	6.498	0.001	44	9278	0.1747	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	90	38956	0.1808	
31 Methylene Chloride	84	6.757	6.759	-0.002	93	19809	0.2072	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.768	6.778	-0.010	90	20200	0.2032	
33 Carbon disulfide	76	6.940	6.942	-0.002	97	61892	0.1841	
34 trans-1,2-Dichloroethene	96	7.607	7.609	-0.002	95	21641	0.1791	
35 2-Methylpentane	43	7.629	7.631	-0.002	93	51760	0.1877	
36 Methyl tert-butyl ether	73	7.742	7.738	0.004	93	33243	0.1823	
37 1,1-Dichloroethane	63	8.038	8.041	-0.003	90	36976	0.1961	
38 Vinyl acetate	43	8.140	8.141	-0.001	98	29176	0.1766	
39 2-Butanone (MEK)	72	8.608	8.601	0.007	94	5876	0.1737	
40 Hexane	56	8.635	8.642	-0.007	89	18317	0.1907	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	85	20156	0.1954	
42 Ethyl acetate	43	9.227	9.229	-0.003	94	26903	0.1826	
43 Chloroform	83	9.399	9.403	-0.004	67	40765	0.1958	
44 Tetrahydrofuran	42	9.818	9.816	0.002	89	15807	0.1910	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	90	42198	0.1945	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	86	23652	0.1789	
47 n-Butanol	31	10.964	10.958	0.006	76	8551	0.2295	
48 Benzene	78	11.029	11.033	-0.004	95	53761	0.1838	
49 Cyclohexane	69	11.034	11.040	-0.006	89	10543	0.1827	
50 Carbon tetrachloride	117	11.056	11.059	-0.003	94	43678	0.1808	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	88	12974	0.1880	
52 Thiophene	84	11.292	11.297	-0.005	92	34350	0.1902	
53 Isooctane	57	11.766	11.771	-0.005	97	97042	0.1943	
54 n-Heptane	71	12.126	12.130	-0.004	86	19608	0.1896	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	80	16678	0.1687	
56 Trichloroethene	130	12.250	12.252	-0.002	90	26470	0.1866	
57 Dibromomethane	93	12.330	12.332	-0.002	88	23612	0.1815	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	93	35477	0.1719	
58 1,4-Dioxane	88	12.492	12.483	0.009	69	5872	0.1658	
60 Methyl methacrylate	41	12.546	12.548	-0.002	74	14809	0.1670	
61 Methylcyclohexane	83	13.014	13.013	0.001	94	37072	0.1883	
62 4-Methyl-2-pentanone (MIBK)	43	13.385	13.382	0.003	88	25379	0.1420	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	85	22640	0.1614	
64 trans-1,3-Dichloropropene	75	14.122	14.126	-0.004	83	20295	0.1688	
65 Toluene	91	14.262	14.262	0.0	91	47832	0.1778	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	91	14877	0.1744	
67 2-Methylthiophene	97	14.412	14.413	-0.001	91	42390	0.1753	
68 3-Methylthiophene	97	14.611	14.612	-0.001	86	42847	0.1766	
69 2-Hexanone	58	14.697	14.694	0.003	82	12124	0.1376	
70 n-Octane	85	14.929	14.928	0.001	90	17415	0.1764	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	88	28336	0.1505	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	80	24689	0.1689	
73 Tetrachloroethene	129	15.391	15.393	-0.002	85	22395	0.1786	
75 Chlorobenzene	112	16.252	16.256	-0.004	75	38702	0.1684	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	94	53631	0.1810	
76 Ethylbenzene	91	16.532	16.536	-0.004	91	53929	0.1814	
77 2-Ethylthiophene	97	16.639	16.638	0.001	84	41218	0.1769	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	83497	0.3481	
79 n-Nonane	57	17.097	17.098	-0.001	91	29027	0.1555	
81 Bromoform	173	17.145	17.149	-0.004	80	19445	0.1308	
80 Styrene	104	17.156	17.157	-0.001	89	24244	0.1472	
82 o-Xylene	91	17.220	17.220	0.0	89	45016	0.1851	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	94	30304	0.1525	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.694	17.690	0.004	90	7573	0.1590	
85 Isopropylbenzene	105	17.791	17.793	-0.002	86	60842	0.1756	
86 N-Propylbenzene	120	18.312	18.310	0.002	96	14173	0.1551	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	89	15581	0.1634	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	94	51618	0.1598	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	89	24966	0.1537	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	78	14480	0.1244	
91 n-Decane	57	18.791	18.793	-0.002	86	30213	0.1519	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	47790	0.1507	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	86	41818	0.1484	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	95	61653	0.1491	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	94	26725	0.1443	
96 Benzyl chloride	91	19.286	19.288	-0.002	95	30711	0.1460	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	89	24804	0.1439	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	80	47097	0.1421	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	91	35544	0.1548	
100 Butylcyclohexane	83	19.458	19.460	-0.002	89	39782	0.1518	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	87	37844	0.1470	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	25655	0.1417	
103 n-Butylbenzene	91	19.776	19.777	-0.001	94	44913	0.1460	
104 Indene	116	19.781	19.781	0.0	83	31046	0.1380	
105 Undecane	57	20.066	20.068	-0.002	92	30780	0.1536	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	91	42402	0.1364	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	93	45438	0.1455	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	89	30265	0.1485	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	89	37074	0.1468	
110 Dodecane	57	21.147	21.148	-0.001	89	33803	0.1629	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	74	10877	0.1350	
112 Naphthalene	128	21.524	21.527	-0.003	95	30193	0.1323	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	80	19240	0.1244	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	79	23861	0.1449	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	85	14621	0.1404	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	89	21725	0.8950	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	92	25220	1.01	
139 Isopropyl ether	45	8.796	8.794	0.002	93	44609	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	93	40755	NR	
140 Tert-amyl methyl ether	73	11.486	11.482	0.004	74	38761	NR	
A 118 C6 Range	1	8.640	8.586 -	8.694	0	202396	0.1940	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	134690	0.2054	
A 123 C8 Range	1	14.923	14.886 -	14.961	0	242838	0.2390	
S 124 Xylenes, Total	100				0		0.5333	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

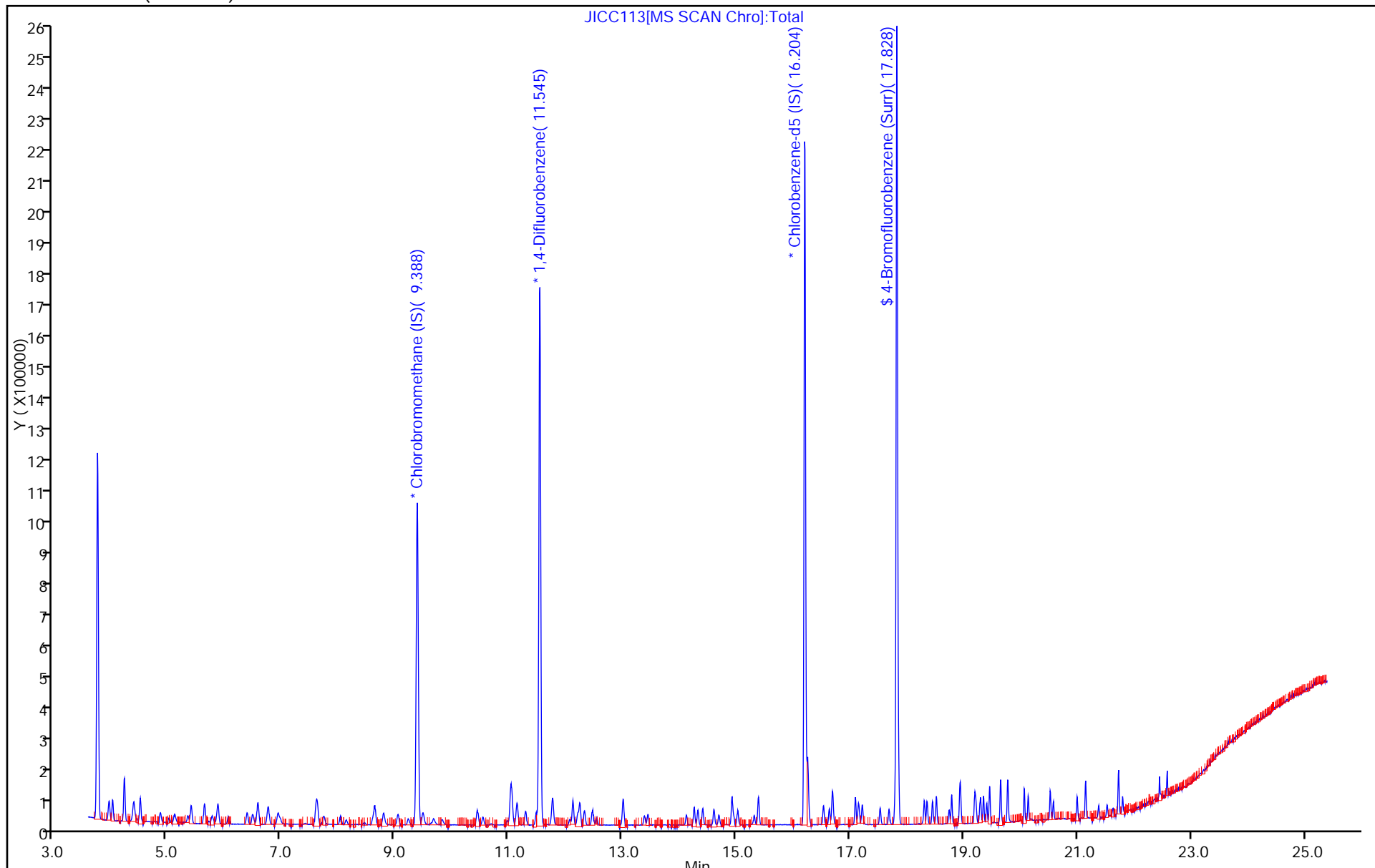
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9 Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

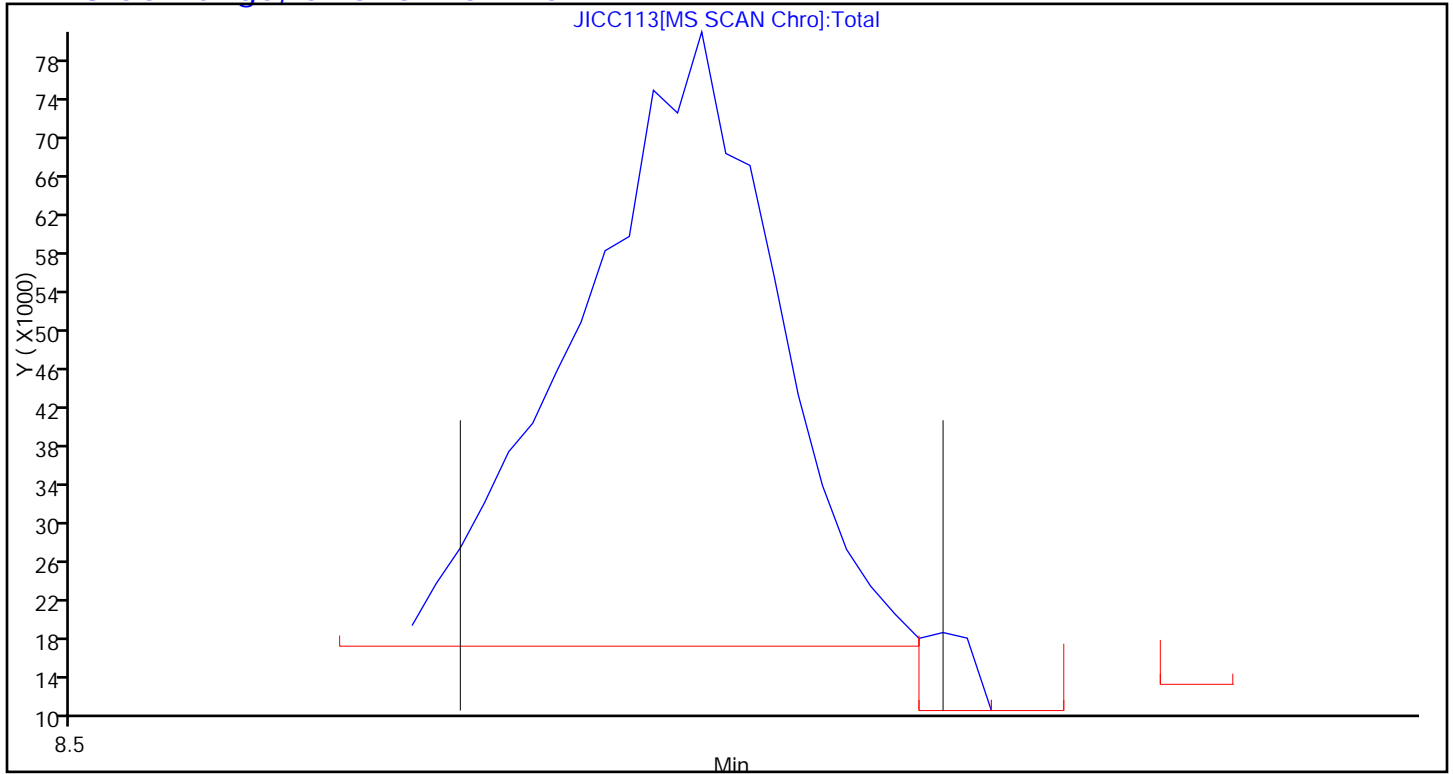
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

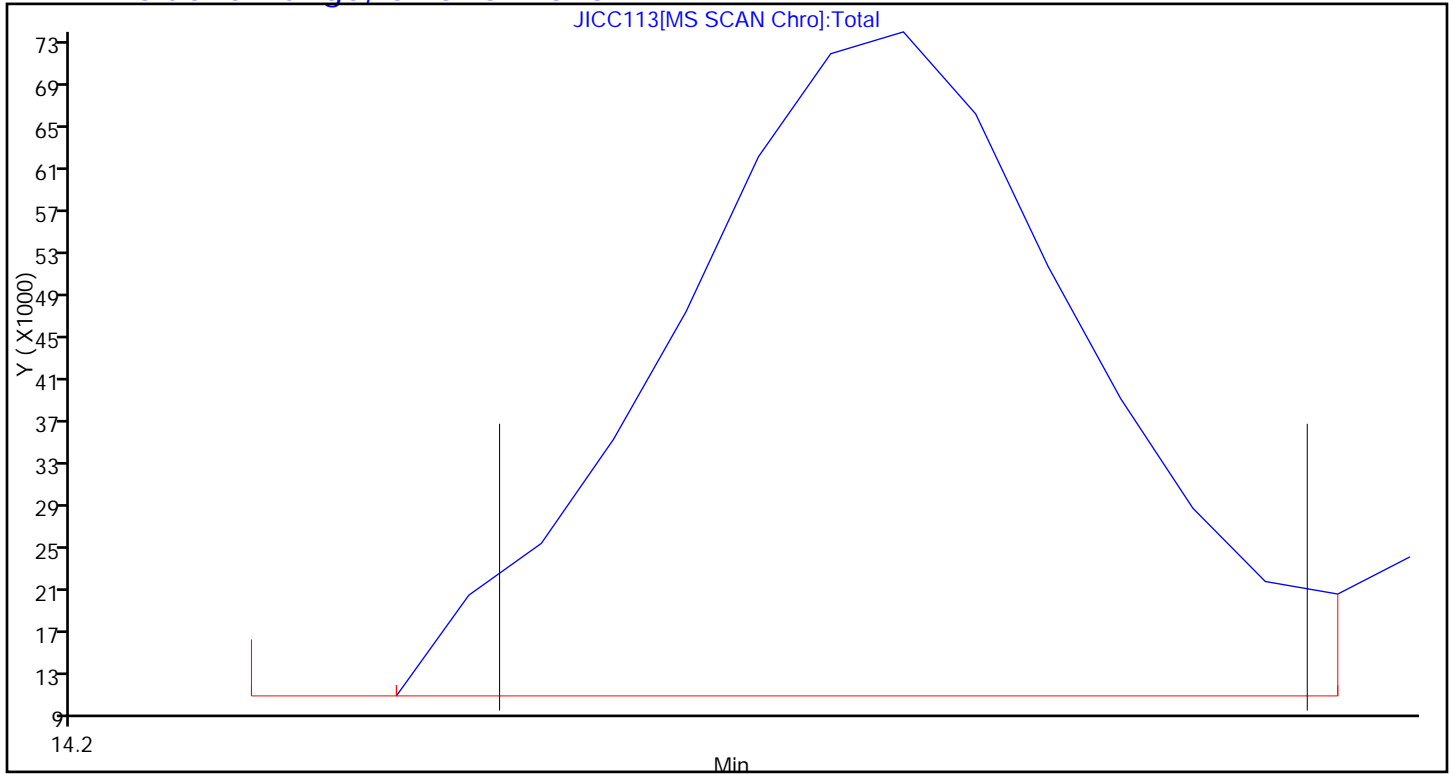
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

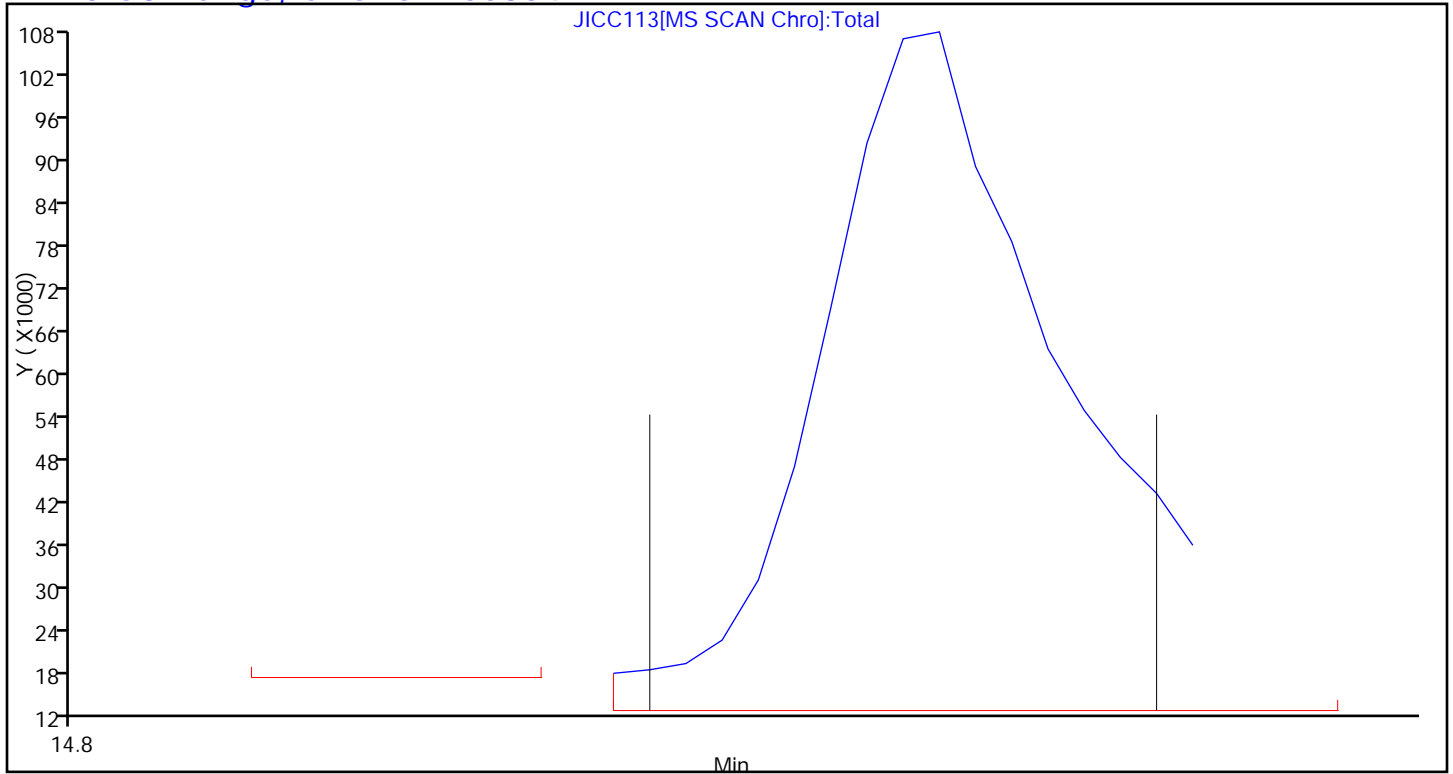
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D
 Lims ID: IC L4 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2014 15:23:30 ALS Bottle#: 10 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL4,,1,4,,ICAL 0.4
 Misc. Info.: J031114I,TO15,,140-0000516-005
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:29 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	343740	4.00	
* 2 1,4-Difluorobenzene	114	11.547	11.547	0.0	94	1630205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.205	16.208	-0.003	87	1321433	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	90	911404	3.90	
6 Chlorodifluoromethane	67	3.962	3.960	0.002	96	13846	0.3903	
7 Propene	41	3.972	3.973	-0.001	99	44922	0.4262	
8 Dichlorodifluoromethane	85	4.032	4.029	0.003	100	134818	0.3960	
9 Chloromethane	52	4.231	4.230	0.001	100	15228	0.3937	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.238	-0.002	92	93560	0.3641	
11 Acetaldehyde	44	4.397	4.398	-0.001	99	64164	1.89	
12 Vinyl chloride	62	4.419	4.419	0.0	98	51116	0.4011	
14 Butadiene	54	4.516	4.517	-0.001	65	35435	0.4002	
13 Butane	43	4.516	4.517	-0.001	86	71879	0.3963	
15 Bromomethane	94	4.871	4.871	0.0	94	50293	0.3880	
16 Chloroethane	64	5.027	5.027	0.0	98	23148	0.3949	
17 Ethanol	31	5.118	5.122	-0.004	94	58098	2.11	
18 Vinyl bromide	106	5.355	5.357	-0.002	94	42200	0.3828	
19 2-Methylbutane	43	5.414	5.411	0.003	91	57096	0.3911	
20 Trichlorofluoromethane	101	5.645	5.647	-0.002	97	116368	0.3890	
21 Acrolein	56	5.651	5.650	0.001	19	8002	0.2852	
22 Acetonitrile	40	5.721	5.720	0.001	99	11328	0.3655	
23 Acetone	58	5.775	5.776	-0.001	83	24784	0.5072	
24 Isopropyl alcohol	45	5.855	5.858	-0.003	94	52512	0.4070	
25 Pentane	72	5.882	5.884	-0.002	95	7244	0.3917	
26 Ethyl ether	31	6.065	6.059	0.006	90	29228	0.3250	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	96	36039	0.3735	
28 2-Methyl-2-propanol	59	6.485	6.487	-0.002	93	66363	0.4175	
29 Acrylonitrile	53	6.495	6.498	-0.003	93	15228	0.2981	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.587	6.586	0.001	93	79676	0.3844	
31 Methylene Chloride	84	6.759	6.759	0.0	94	36329	0.3951	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.775	6.778	-0.003	91	35748	0.3737	
33 Carbon disulfide	76	6.942	6.942	0.0	99	124614	0.3854	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	96	43537	0.3746	
35 2-Methylpentane	43	7.630	7.631	-0.001	94	102693	0.3872	
36 Methyl tert-butyl ether	73	7.738	7.738	0.0	95	59586	0.3396	
37 1,1-Dichloroethane	63	8.039	8.041	-0.002	96	65235	0.3596	
38 Vinyl acetate	43	8.142	8.141	0.001	99	48718	0.3066	
39 2-Butanone (MEK)	72	8.604	8.601	0.003	78	11813	0.3631	
40 Hexane	56	8.636	8.642	-0.006	87	34438	0.3727	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	93	35319	0.3559	
42 Ethyl acetate	43	9.228	9.229	-0.001	95	46769	0.3300	
43 Chloroform	83	9.400	9.403	-0.003	80	71523	0.3571	
44 Tetrahydrofuran	42	9.815	9.816	-0.001	93	27476	0.3451	
45 1,1,1-Trichloroethane	97	10.449	10.450	-0.001	96	75903	0.3636	
46 1,2-Dichloroethane	62	10.546	10.547	-0.001	94	43695	0.3455	
47 n-Butanol	31	10.960	10.958	0.002	94	14706	0.4127	
48 Benzene	78	11.030	11.033	-0.003	96	97096	0.3471	
49 Cyclohexane	69	11.036	11.040	-0.004	93	20873	0.3782	
50 Carbon tetrachloride	117	11.057	11.059	-0.002	94	84912	0.3675	
51 2,3-Dimethylpentane	71	11.143	11.148	-0.005	91	23214	0.3518	
52 Thiophene	84	11.294	11.297	-0.003	93	60186	0.3484	
53 Isooctane	57	11.767	11.771	-0.004	97	173617	0.3635	
54 n-Heptane	71	12.128	12.130	-0.002	91	33732	0.3410	
55 1,2-Dichloropropane	63	12.214	12.214	0.0	84	30869	0.3265	
56 Trichloroethene	130	12.246	12.252	-0.006	95	46631	0.3437	
57 Dibromomethane	93	12.332	12.332	0.0	88	41095	0.3303	
59 Dichlorobromomethane	83	12.472	12.472	0.0	97	63861	0.3235	
58 1,4-Dioxane	88	12.483	12.483	0.0	45	11964	0.3532	
60 Methyl methacrylate	41	12.547	12.548	-0.001	84	24813	0.2925	
61 Methylcyclohexane	83	13.010	13.013	-0.003	95	65787	0.3494	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.382	-0.001	93	52154	0.3052	
63 cis-1,3-Dichloropropene	75	13.446	13.448	-0.002	93	42126	0.3141	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	92	35040	0.3200	
65 Toluene	91	14.258	14.262	-0.004	93	79532	0.3244	
66 1,1,2-Trichloroethane	83	14.328	14.328	0.0	95	26153	0.3366	
67 2-Methylthiophene	97	14.409	14.413	-0.004	95	73689	0.3345	
68 3-Methylthiophene	97	14.608	14.612	-0.004	94	73553	0.3328	
69 2-Hexanone	58	14.694	14.694	0.0	88	25873	0.3222	
70 n-Octane	85	14.925	14.928	-0.003	93	31719	0.3527	
71 Chlorodibromomethane	129	15.027	15.027	0.0	94	54305	0.3167	
72 Ethylene Dibromide	107	15.318	15.317	0.001	89	42940	0.3225	
73 Tetrachloroethene	129	15.393	15.393	0.0	90	38555	0.3376	
75 Chlorobenzene	112	16.254	16.256	-0.002	66	67168	0.3208	
74 2,3-Dimethylheptane	43	16.259	16.260	-0.001	95	107761	0.3992	
76 Ethylbenzene	91	16.534	16.536	-0.002	97	85699	0.3165	
77 2-Ethylthiophene	97	16.636	16.638	-0.002	91	66902	0.3153	
78 m-Xylene & p-Xylene	91	16.695	16.696	-0.001	99	133531	0.6111	
79 n-Nonane	57	17.098	17.098	0.0	93	57485	0.3381	
81 Bromoform	173	17.147	17.149	-0.002	92	36819	0.2718	
80 Styrene	104	17.158	17.157	0.001	95	41766	0.2783	
82 o-Xylene	91	17.217	17.220	-0.003	94	72917	0.3292	
83 1,1,2,2-Tetrachloroethane	83	17.534	17.534	0.0	97	58192	0.3215	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.690	17.690	0.0	95	13592	0.3132	
85 Isopropylbenzene	105	17.792	17.793	-0.001	83	100706	0.3191	
86 N-Propylbenzene	120	18.309	18.310	-0.001	97	24502	0.2944	
87 2-Chlorotoluene	126	18.357	18.357	0.0	94	26819	0.3088	
88 4-Ethyltoluene	105	18.454	18.454	0.0	96	89983	0.3057	
89 1,3,5-Trimethylbenzene	120	18.524	18.524	0.0	91	45307	0.3062	
90 Alpha Methyl Styrene	118	18.744	18.745	-0.001	81	27470	0.2591	
91 n-Decane	57	18.793	18.793	0.0	87	56293	0.3107	
92 tert-Butylbenzene	119	18.933	18.937	-0.004	83	89301	0.3090	
93 1,2,4-Trimethylbenzene	105	18.949	18.949	0.0	90	76446	0.2979	
94 sec-Butylbenzene	105	19.196	19.196	0.0	96	115821	0.3075	
95 1,3-Dichlorobenzene	146	19.218	19.217	0.001	96	46329	0.2747	
96 Benzyl chloride	91	19.288	19.288	0.0	95	52876	0.2759	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	92	43546	0.2774	
98 4-Isopropyltoluene	119	19.352	19.352	0.0	81	90008	0.2981	
99 1,2,3-Trimethylbenzene	105	19.406	19.409	-0.003	97	68250	0.3264	
100 Butylcyclohexane	83	19.460	19.460	0.0	91	78686	0.3297	
101 2,3-Dihydroindene	117	19.654	19.653	0.001	89	70569	0.3010	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	78	46356	0.2810	
103 n-Butylbenzene	91	19.777	19.777	0.0	96	79971	0.2854	
104 Indene	116	19.777	19.781	-0.004	83	57358	0.2800	
105 Undecane	57	20.068	20.068	0.0	95	59319	0.3250	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.138	20.138	0.0	93	80666	0.2849	
108 1,2,4,5-Tetramethylbenzene	119	20.525	20.525	0.0	96	89023	0.3130	
107 1,2,3,5-Tetramethylbenzene	119	20.579	20.582	-0.003	93	56702	0.3054	
109 1,2,3,4-Tetramethylbenzene	119	20.998	20.998	0.0	95	74166	0.3224	
110 Dodecane	57	21.149	21.148	0.001	92	65545	0.3468	
111 1,2,4-Trichlorobenzene	180	21.380	21.379	0.001	88	21000	0.2861	
112 Naphthalene	128	21.526	21.527	-0.001	98	60395	0.2905	
113 Benzo(b)thiophene	134	21.633	21.631	0.002	90	38727	0.2749	
114 Hexachlorobutadiene	225	21.730	21.729	0.001	83	45108	0.3008	
115 1,2,3-Trichlorobenzene	180	21.800	21.800	0.0	93	29244	0.3083	
116 2-Methylnaphthalene	142	22.451	22.449	0.002	97	47754	2.16	
117 1-Methylnaphthalene	142	22.585	22.583	0.002	97	56061	2.46	
139 Isopropyl ether	45	8.792	8.794	-0.002	96	82128	NR	
142 Tert-butyl ethyl ether	59	9.486	9.487	-0.001	93	74941	NR	
140 Tert-amyl methyl ether	73	11.482	11.482	0.0	76	70041	NR	
A 118 C6 Range	1	8.642	8.588 - 8.696		0	410756	0.4093	
A 122 Toluene Range	1	14.258	14.228 - 14.288		0	190190	0.3183	
A 123 C8 Range	1	14.925	14.882 - 14.968		0	360891	0.3898	
S 124 Xylenes, Total	100				0		0.9404	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L4

Lab Sample ID:

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

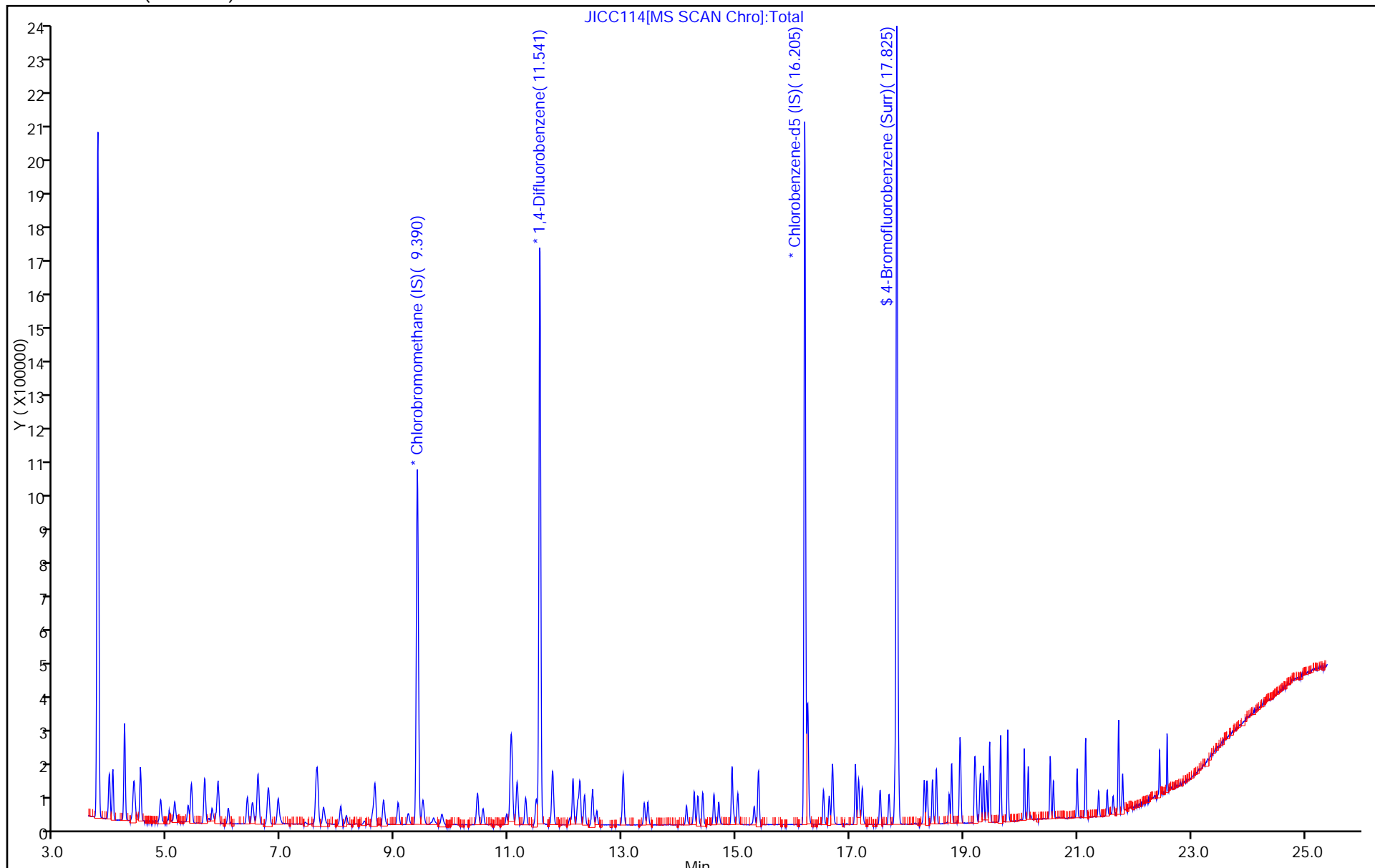
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

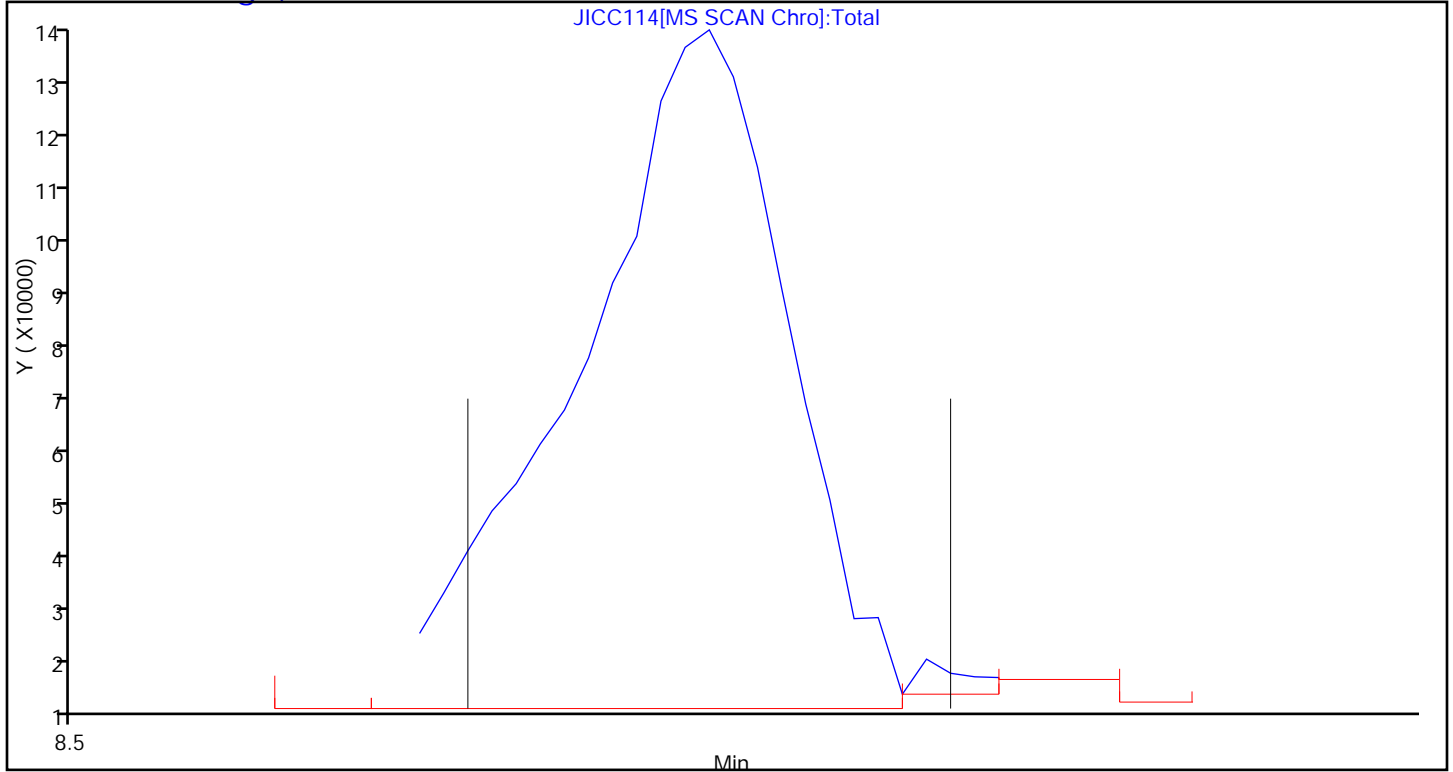
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

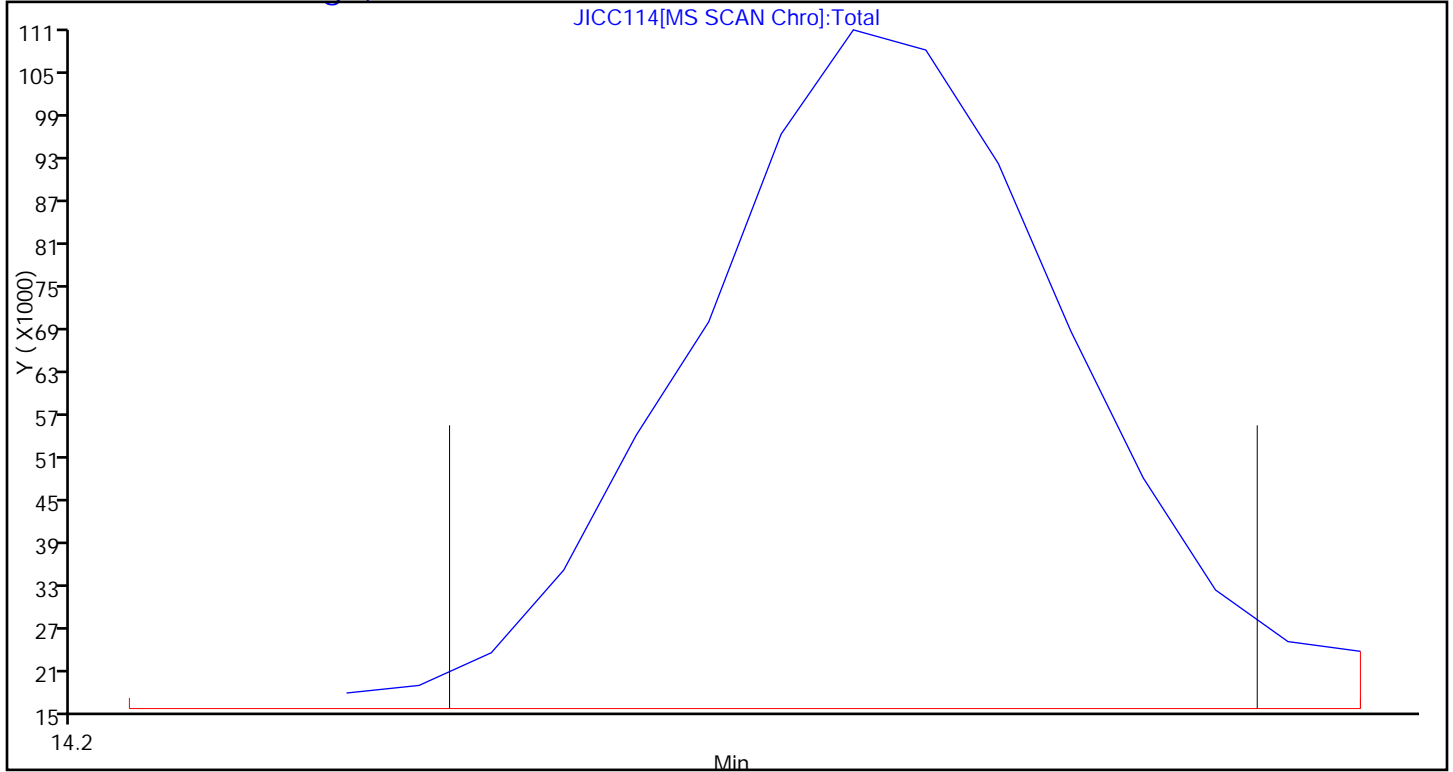
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

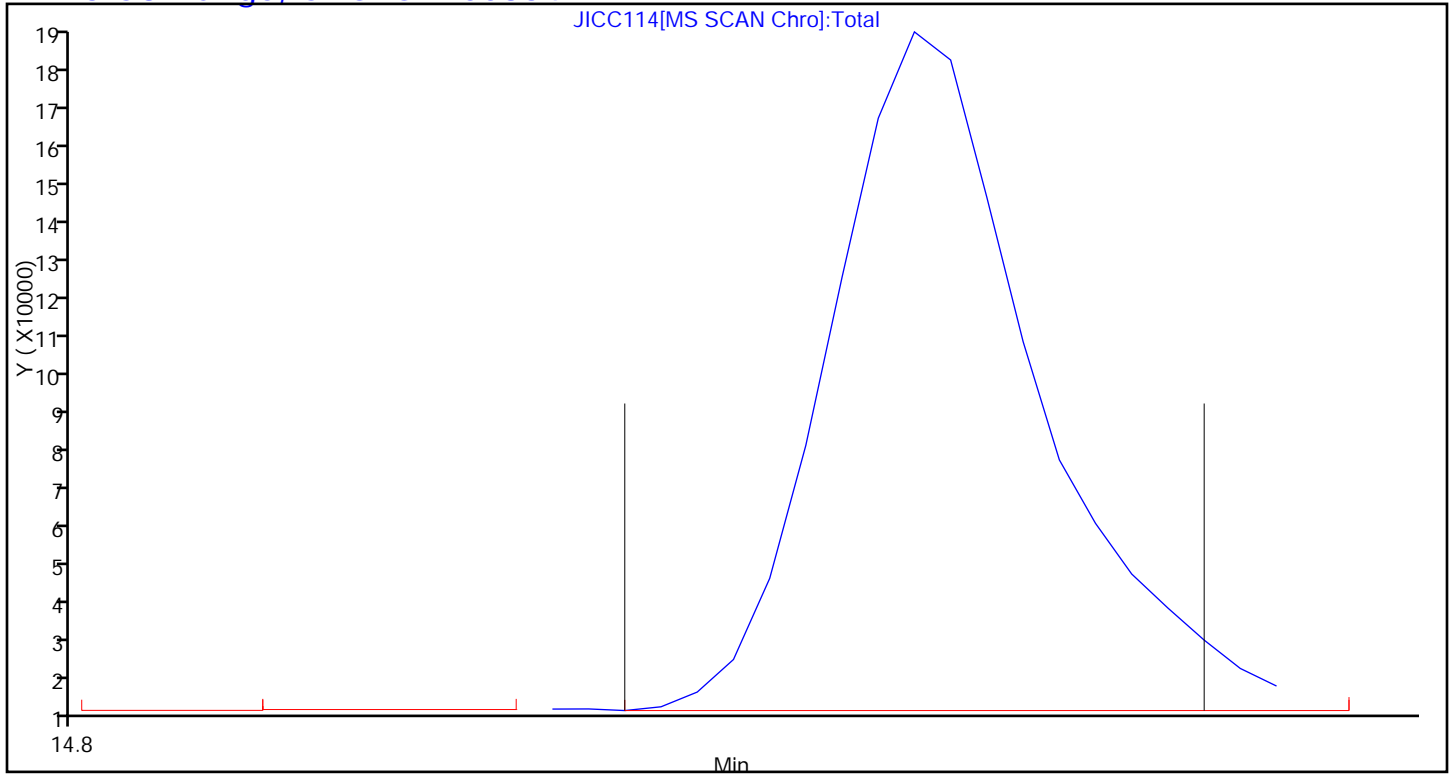
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D
 Lims ID: IC L5 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Mar-2014 16:17:30 ALS Bottle#: 11 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL5,,1,5,,ICAL 1
 Misc. Info.: J031114I,TO15,,140-0000516-006
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:15 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.392	0.001	93	350674	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	93	1674047	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1432884	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1030162	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	32729	0.9044	
7 Propene	41	3.976	3.973	0.003	99	107699	1.00	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	334566	0.9632	
9 Chloromethane	52	4.229	4.230	-0.001	98	37407	0.9480	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	91	251641	0.9599	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	194092	5.61	
12 Vinyl chloride	62	4.417	4.419	-0.002	98	125449	0.9650	
14 Butadiene	54	4.514	4.517	-0.003	90	87385	0.9674	
13 Butane	43	4.519	4.517	0.002	86	173714	0.9389	
15 Bromomethane	94	4.874	4.871	0.003	98	123346	0.9329	
16 Chloroethane	64	5.025	5.027	-0.002	98	56692	0.9479	
17 Ethanol	31	5.117	5.122	-0.005	95	144711	5.14	
18 Vinyl bromide	106	5.359	5.357	0.002	97	105872	0.9415	
19 2-Methylbutane	43	5.412	5.411	0.001	92	140258	0.9417	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	97	292818	0.9596	
21 Acrolein	56	5.649	5.650	-0.001	24	27013	0.9436	
22 Acetonitrile	40	5.719	5.720	-0.001	100	29505	0.9331	
23 Acetone	58	5.773	5.776	-0.003	85	72907	1.46	
24 Isopropyl alcohol	45	5.854	5.858	-0.004	96	127722	0.9703	
25 Pentane	72	5.886	5.884	0.002	96	18413	0.9759	
26 Ethyl ether	31	6.058	6.059	-0.001	93	94508	1.03	
27 1,1-Dichloroethene	96	6.402	6.399	0.003	97	90818	0.9225	
28 2-Methyl-2-propanol	59	6.478	6.487	-0.009	95	154458	0.9526	
29 Acrylonitrile	53	6.499	6.498	0.001	93	49792	0.9554	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	94	201012	0.9507	
31 Methylene Chloride	84	6.757	6.759	-0.002	96	89695	0.9561	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	90749	0.9300	
33 Carbon disulfide	76	6.940	6.942	-0.002	99	313388	0.9500	
34 trans-1,2-Dichloroethene	96	7.613	7.609	0.004	98	110071	0.9282	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	259682	0.9597	
36 Methyl tert-butyl ether	73	7.736	7.738	-0.002	95	180801	1.01	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	183945	0.99	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	159904	0.9863	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	35887	1.08	
40 Hexane	56	8.640	8.642	-0.002	89	89704	0.9515	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	95	100896	1.00	
42 Ethyl acetate	43	9.226	9.229	-0.003	97	144504	1.00	
43 Chloroform	83	9.404	9.403	0.001	87	200359	0.9806	
44 Tetrahydrofuran	42	9.813	9.816	-0.003	93	78446	0.9658	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	216140	1.01	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	96	125298	0.9648	
47 n-Butanol	31	10.953	10.958	-0.005	84	30453	0.8322	
48 Benzene	78	11.034	11.033	0.001	97	273136	0.9509	
49 Cyclohexane	69	11.039	11.040	-0.001	93	54874	0.9681	
50 Carbon tetrachloride	117	11.061	11.059	0.002	97	236385	1.00	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	65875	0.9721	
52 Thiophene	84	11.298	11.297	0.001	96	173039	0.9755	
53 Isooctane	57	11.771	11.771	0.0	98	474988	0.9685	
54 n-Heptane	71	12.131	12.130	0.001	93	96771	0.9527	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	95014	0.9787	
56 Trichloroethene	130	12.250	12.252	-0.002	97	128335	0.9210	
57 Dibromomethane	93	12.330	12.332	-0.002	91	121268	0.9492	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	98	190788	0.9411	
58 1,4-Dioxane	88	12.481	12.483	-0.002	87	31775	0.9134	
60 Methyl methacrylate	41	12.546	12.548	-0.002	90	82170	0.9434	
61 Methylcyclohexane	83	13.014	13.013	0.001	95	188580	0.9754	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.382	-0.003	98	163854	0.9338	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	95	131004	0.9512	
64 trans-1,3-Dichloropropene	75	14.127	14.126	0.001	98	117538	0.9899	
65 Toluene	91	14.262	14.262	0.0	93	264651	1.00	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	96	84373	1.00	
67 2-Methylthiophene	97	14.412	14.413	-0.001	98	237579	0.99	
68 3-Methylthiophene	97	14.611	14.612	-0.001	99	241139	1.01	
69 2-Hexanone	58	14.692	14.694	-0.002	92	79350	0.9114	
70 n-Octane	85	14.929	14.928	0.001	94	94899	0.9730	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	174527	0.9386	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	97	142171	0.9847	
73 Tetrachloroethene	129	15.391	15.393	-0.002	92	112818	0.9111	
75 Chlorobenzene	112	16.257	16.256	0.001	84	213586	0.9406	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	95	299289	1.02	
76 Ethylbenzene	91	16.537	16.536	0.001	98	284603	0.9693	
77 2-Ethylthiophene	97	16.639	16.638	0.001	97	225682	0.9808	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	437938	1.85	
79 n-Nonane	57	17.097	17.098	-0.001	93	182421	0.9895	
81 Bromoform	173	17.150	17.149	0.001	93	134430	0.9151	
80 Styrene	104	17.156	17.157	-0.001	98	156161	0.9598	
82 o-Xylene	91	17.220	17.220	0.0	96	232024	0.9661	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	99	183648	0.9358	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	97	43710	0.9288	
85 Isopropylbenzene	105	17.791	17.793	-0.002	96	322210	0.9415	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	81294	0.9008	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	97	86903	0.9227	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	98	291767	0.9142	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	92	140307	0.8745	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	84	104233	0.9066	
91 n-Decane	57	18.791	18.793	-0.002	88	192549	0.9800	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	276681	0.8830	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	95	247215	0.8884	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	371473	0.9095	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	98	150681	0.8238	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	171797	0.8266	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	93	135286	0.7947	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	295742	0.9032	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	207460	0.9149	
100 Butylcyclohexane	83	19.458	19.460	-0.002	93	250533	0.9680	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	223109	0.8775	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	148540	0.8303	
103 n-Butylbenzene	91	19.776	19.777	-0.001	96	267179	0.8794	
104 Indene	116	19.781	19.781	0.0	85	196085	0.8826	
105 Undecane	57	20.066	20.068	-0.002	96	175793	0.8882	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	268427	0.8743	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	97	282429	0.9156	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	94	177582	0.8820	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	97	222908	0.8936	
110 Dodecane	57	21.147	21.148	-0.001	94	185701	0.9061	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	66621	0.8371	
112 Naphthalene	128	21.529	21.527	0.002	99	186491	0.8271	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	98	119182	0.7801	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	84	136244	0.8378	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	95	87992	0.8556	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	99	149184	6.22	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	164584	6.66	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	244016	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	95	220627	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	81	203973	NR	
A 118 C6 Range	1	8.640	8.581 -	8.699	0	1022928	1.00	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	633377	0.9777	
A 123 C8 Range	1	14.934	14.886 -	14.983	0	997149	0.99	
S 124 Xylenes, Total	100				0		2.81	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L5

Lab Sample ID:

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

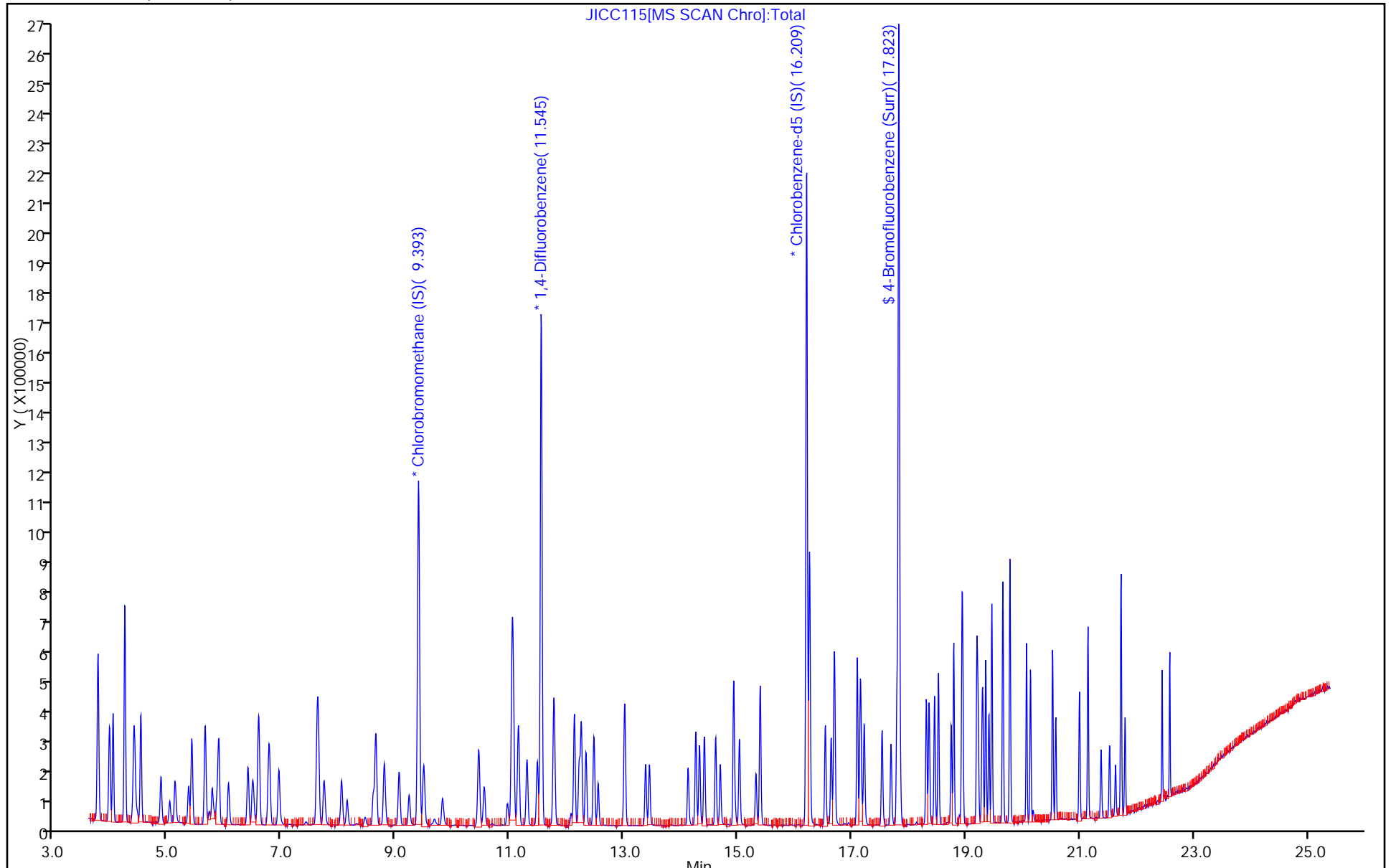
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30 Instrument ID: MJ

Lims ID: IC L5 Lab Sample ID:

Client ID:

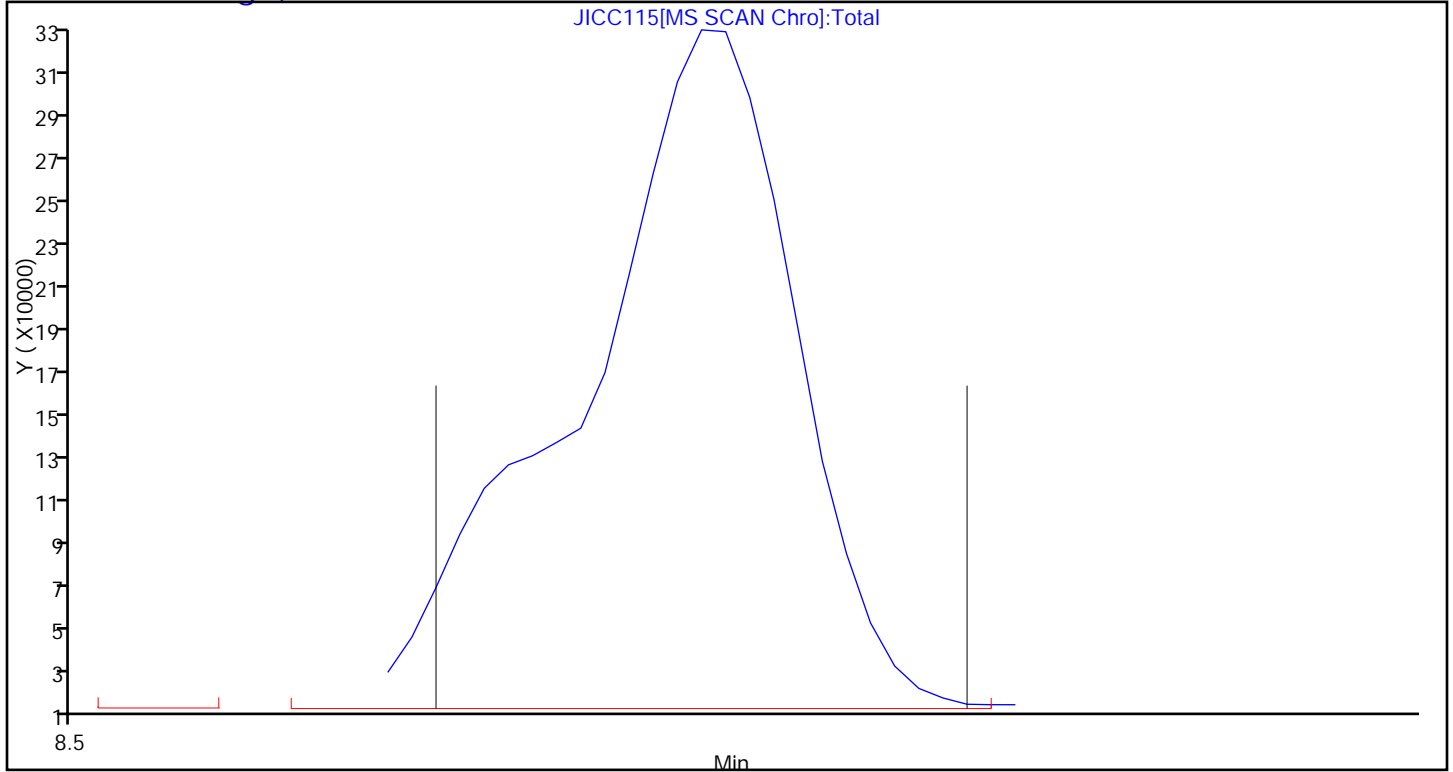
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

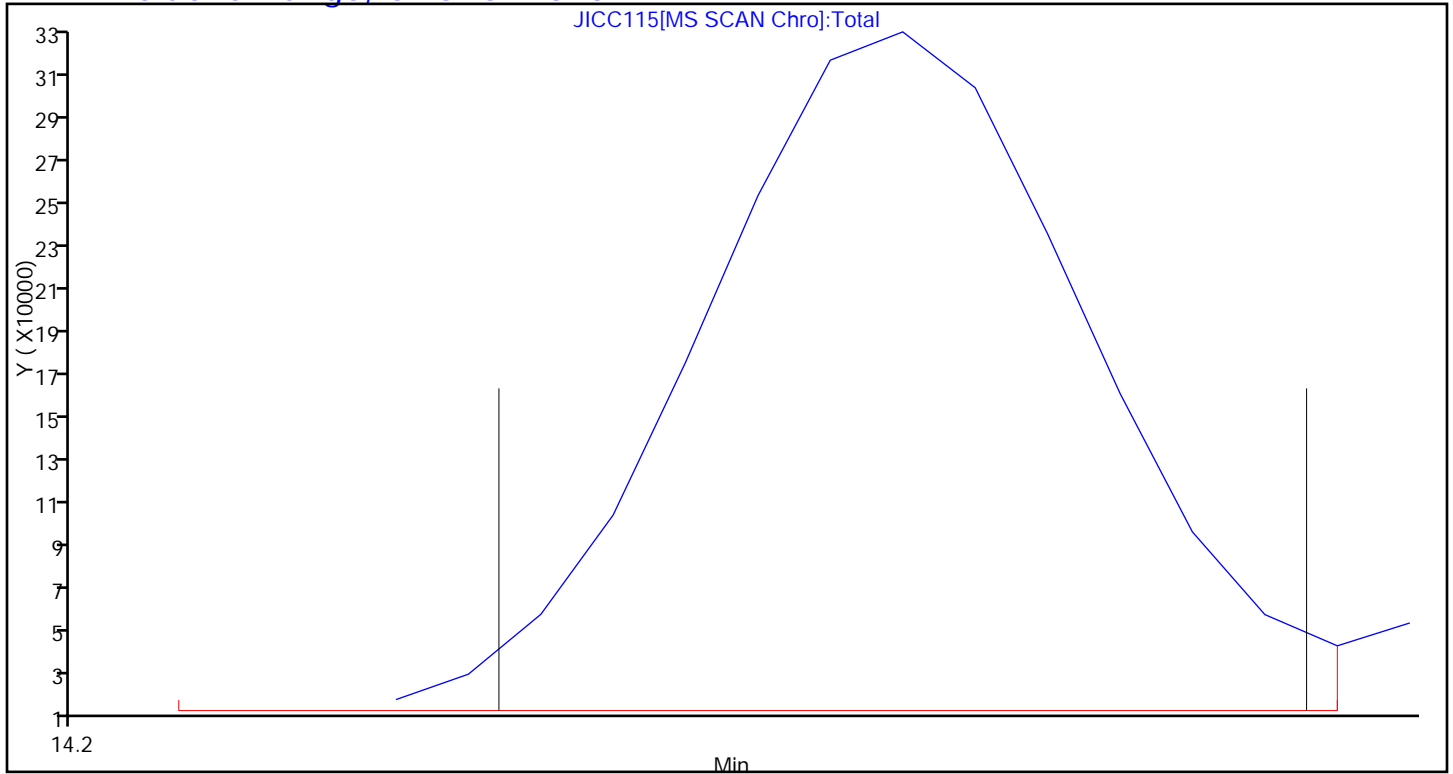
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30 Instrument ID: MJ

Lims ID: IC L5 Lab Sample ID:

Client ID:

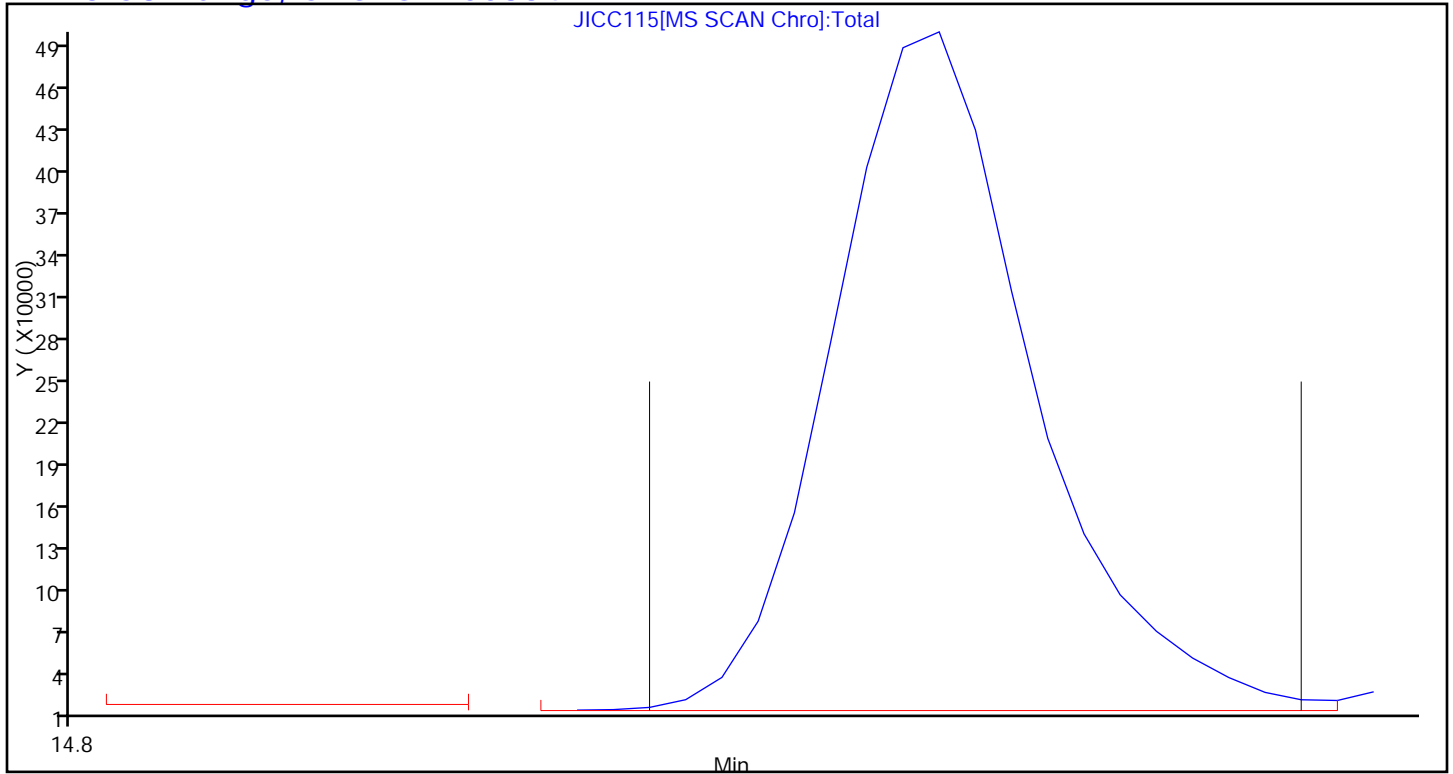
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D
 Lims ID: ICIS L6 Lab Sample ID:
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 11-Mar-2014 17:11:30 ALS Bottle#: 12 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL6,,1,6,,ICAL 2
 Misc. Info.: J031114I,TO15,,140-0000516-007
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:47:02 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.392	0.002	92	351204	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	92	1664083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1450172	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	89	1040623	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	65895	1.82	
7 Propene	41	3.971	3.973	-0.002	99	203864	1.89	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	677907	1.95	
9 Chloromethane	52	4.229	4.230	-0.001	98	75510	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	92	515628	1.96	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	339724	9.80	
12 Vinyl chloride	62	4.418	4.419	-0.001	99	254791	1.96	
14 Butadiene	54	4.514	4.517	-0.003	66	175277	1.94	
13 Butane	43	4.514	4.517	-0.003	86	348021	1.88	
15 Bromomethane	94	4.869	4.871	-0.002	99	250854	1.89	
16 Chloroethane	64	5.025	5.027	-0.002	100	113435	1.89	
17 Ethanol	31	5.117	5.122	-0.005	95	281128	9.97	
18 Vinyl bromide	106	5.354	5.357	-0.003	97	216421	1.92	
19 2-Methylbutane	43	5.413	5.411	0.002	92	280290	1.88	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	98	594264	1.94	
21 Acrolein	56	5.649	5.650	-0.001	68	53042	1.85	
22 Acetonitrile	40	5.714	5.720	-0.006	100	59141	1.87	
23 Acetone	58	5.773	5.776	-0.003	85	101503	2.03	
24 Isopropyl alcohol	45	5.849	5.858	-0.009	94	252925	1.92	
25 Pentane	72	5.886	5.884	0.002	97	37045	1.96	
26 Ethyl ether	31	6.053	6.059	-0.006	93	179455	1.95	
27 1,1-Dichloroethene	96	6.397	6.399	-0.002	97	184446	1.87	
28 2-Methyl-2-propanol	59	6.473	6.487	-0.014	95	272663	1.68	
29 Acrylonitrile	53	6.494	6.498	-0.004	95	99812	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.586	6.586	0.0	95	409082	1.93	
31 Methylene Chloride	84	6.758	6.759	-0.001	95	180581	1.92	
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	183622	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.941	6.942	-0.001	99	641989	1.94	
34 trans-1,2-Dichloroethene	96	7.608	7.609	-0.001	98	225627	1.90	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	522389	1.93	
36 Methyl tert-butyl ether	73	7.731	7.738	-0.007	96	356577	1.99	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	362051	1.95	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	322885	1.99	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	69610	2.09	
40 Hexane	56	8.640	8.642	-0.002	90	180662	1.91	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	95	200551	1.98	
42 Ethyl acetate	43	9.227	9.229	-0.002	97	292814	2.02	
43 Chloroform	83	9.404	9.403	0.001	96	388598	1.90	
44 Tetrahydrofuran	42	9.808	9.816	-0.008	94	156408	1.92	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	422225	1.98	
46 1,2-Dichloroethane	62	10.545	10.547	-0.002	95	248475	1.92	
47 n-Butanol	31	10.948	10.958	-0.010	88	63073	1.73	
48 Benzene	78	11.034	11.033	0.001	97	540059	1.89	
49 Cyclohexane	69	11.040	11.040	0.0	92	110363	1.96	
50 Carbon tetrachloride	117	11.061	11.059	0.002	96	443845	1.88	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	127368	1.89	
52 Thiophene	84	11.298	11.297	0.001	96	339429	1.93	
53 Isooctane	57	11.771	11.771	0.0	98	916367	1.88	
54 n-Heptane	71	12.132	12.130	0.002	92	191563	1.90	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	187039	1.94	
56 Trichloroethene	130	12.250	12.252	-0.002	93	255418	1.84	
57 Dibromomethane	93	12.331	12.332	-0.001	91	238917	1.88	
59 Dichlorobromomethane	83	12.471	12.472	-0.001	99	383587	1.90	
58 1,4-Dioxane	88	12.476	12.483	-0.007	85	63279	1.83	
60 Methyl methacrylate	41	12.546	12.548	-0.002	91	169117	1.95	
61 Methylcyclohexane	83	13.014	13.013	0.001	96	363492	1.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.382	-0.002	98	336876	1.93	
63 cis-1,3-Dichloropropene	75	13.450	13.448	0.002	94	261947	1.91	
64 trans-1,3-Dichloropropene	75	14.128	14.126	0.002	98	234824	1.95	
65 Toluene	91	14.262	14.262	0.0	94	519669	1.93	
66 1,1,2-Trichloroethane	83	14.327	14.328	-0.001	97	166783	1.96	
67 2-Methylthiophene	97	14.413	14.413	0.0	98	477759	1.98	
68 3-Methylthiophene	97	14.612	14.612	0.0	99	476584	1.97	
69 2-Hexanone	58	14.692	14.694	-0.002	93	161365	1.83	
70 n-Octane	85	14.929	14.928	0.001	94	185219	1.88	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	362439	1.93	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	98	283094	1.94	
73 Tetrachloroethene	129	15.392	15.393	-0.001	92	226667	1.81	
75 Chlorobenzene	112	16.258	16.256	0.002	87	423684	1.84	
74 2,3-Dimethylheptane	43	16.258	16.260	-0.002	95	563663	1.90	
76 Ethylbenzene	91	16.538	16.536	0.002	98	566249	1.91	
77 2-Ethylthiophene	97	16.640	16.638	0.002	97	450374	1.93	
78 m-Xylene & p-Xylene	91	16.694	16.696	-0.002	100	877038	3.66	
79 n-Nonane	57	17.097	17.098	-0.001	93	359753	1.93	
81 Bromoform	173	17.151	17.149	0.002	94	285787	1.92	
80 Styrene	104	17.156	17.157	-0.001	98	329540	2.00	
82 o-Xylene	91	17.221	17.220	0.001	96	451038	1.86	
83 1,1,2,2-Tetrachloroethane	83	17.533	17.534	-0.001	99	370844	1.87	
84 1,2,3-Trichloropropane	110	17.689	17.690	-0.001	97	88416	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.791	17.793	-0.002	97	640978	1.85	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	169743	1.86	
87 2-Chlorotoluene	126	18.356	18.357	-0.001	97	172536	1.81	
88 4-Ethyltoluene	105	18.453	18.454	-0.001	97	602615	1.87	
89 1,3,5-Trimethylbenzene	120	18.523	18.524	-0.001	92	288648	1.78	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	85	232501	2.00	
91 n-Decane	57	18.792	18.793	-0.001	89	383736	1.93	
92 tert-Butylbenzene	119	18.937	18.937	0.0	87	563181	1.78	
93 1,2,4-Trimethylbenzene	105	18.948	18.949	-0.001	95	510168	1.81	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	753094	1.82	
95 1,3-Dichlorobenzene	146	19.217	19.217	-0.001	99	312974	1.69	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	376583	1.79	
97 1,4-Dichlorobenzene	146	19.303	19.302	0.001	94	286084	1.66	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	611347	1.84	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	421832	1.84	
100 Butylcyclohexane	83	19.459	19.460	-0.001	93	480940	1.84	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	462728	1.80	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	80	310746	1.72	
103 n-Butylbenzene	91	19.776	19.777	-0.001	97	566214	1.84	
104 Indene	116	19.781	19.781	0.0	86	427230	1.90	
105 Undecane	57	20.066	20.068	-0.002	96	366563	1.83	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	564256	1.82	
108 1,2,4,5-Tetramethylbenzene	119	20.524	20.525	-0.001	96	585097	1.87	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	95	360803	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	96	458134	1.81	
110 Dodecane	57	21.148	21.148	0.0	95	378646	1.83	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	143447	1.78	
112 Naphthalene	128	21.524	21.527	-0.003	99	394479	1.73	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	99	259843	1.68	
114 Hexachlorobutadiene	225	21.729	21.729	0.0	84	268985	1.63	
115 1,2,3-Trichlorobenzene	180	21.799	21.800	-0.001	95	178007	1.71	
116 2-Methylnaphthalene	142	22.450	22.449	0.001	98	307709	12.7	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	331073	13.2	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	479467	NR	
142 Tert-butyl ethyl ether	59	9.480	9.487	-0.007	95	438027	NR	
140 Tert-amyl methyl ether	73	11.475	11.482	-0.007	92	413190	NR	
A 118 C6 Range	1	8.640	8.571 - 8.710		0	2011864	1.96	
A 122 Toluene Range	1	14.262	14.232 - 14.292		0	1258419	1.92	
A 123 C8 Range	1	14.927	14.881 - 14.988		0	1829147	1.80	
S 124 Xylenes, Total	100				0		5.51	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICIS L6

Lab Sample ID:

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

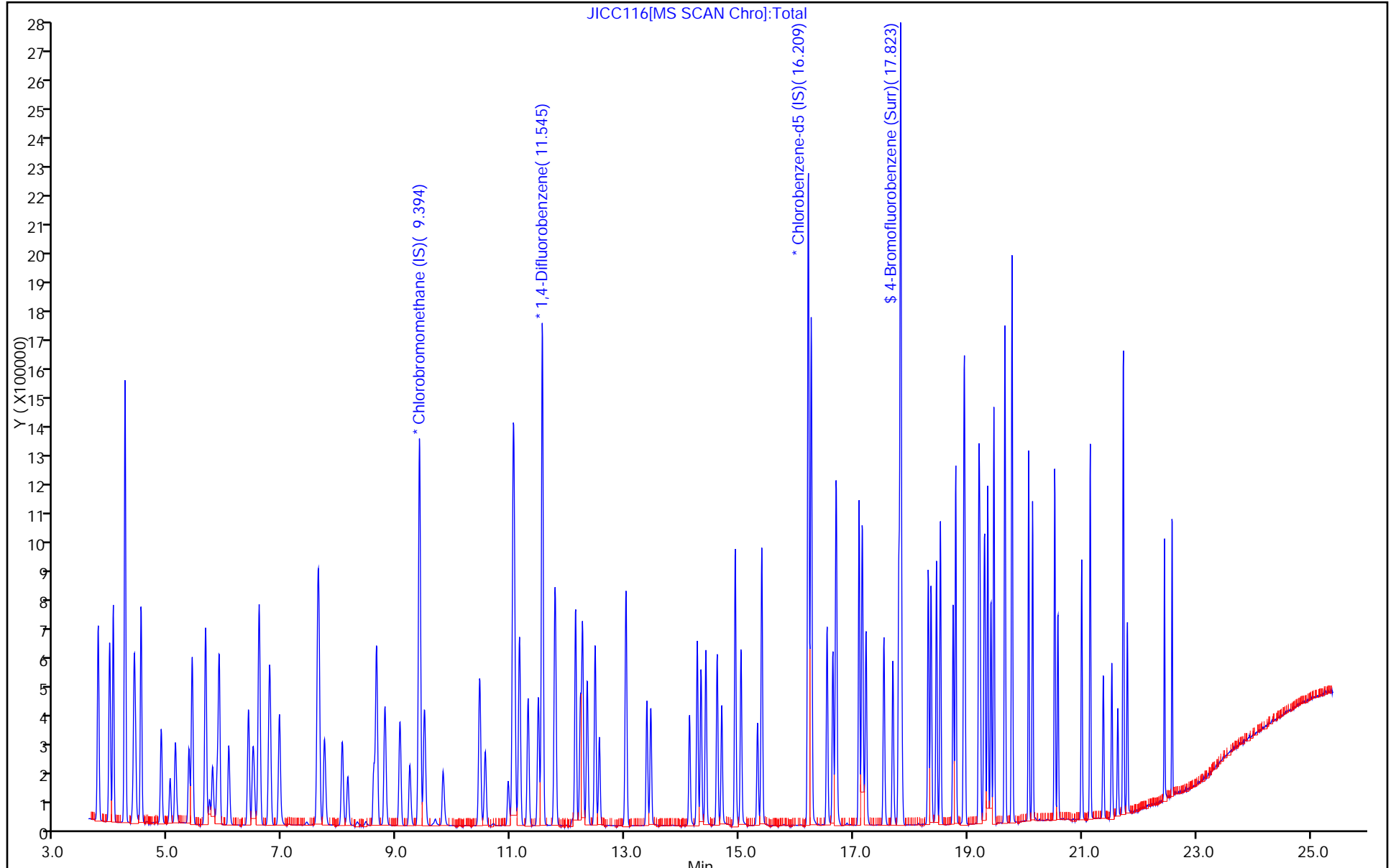
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30 Instrument ID: MJ

Lims ID: ICIS L6 Lab Sample ID:

Client ID:

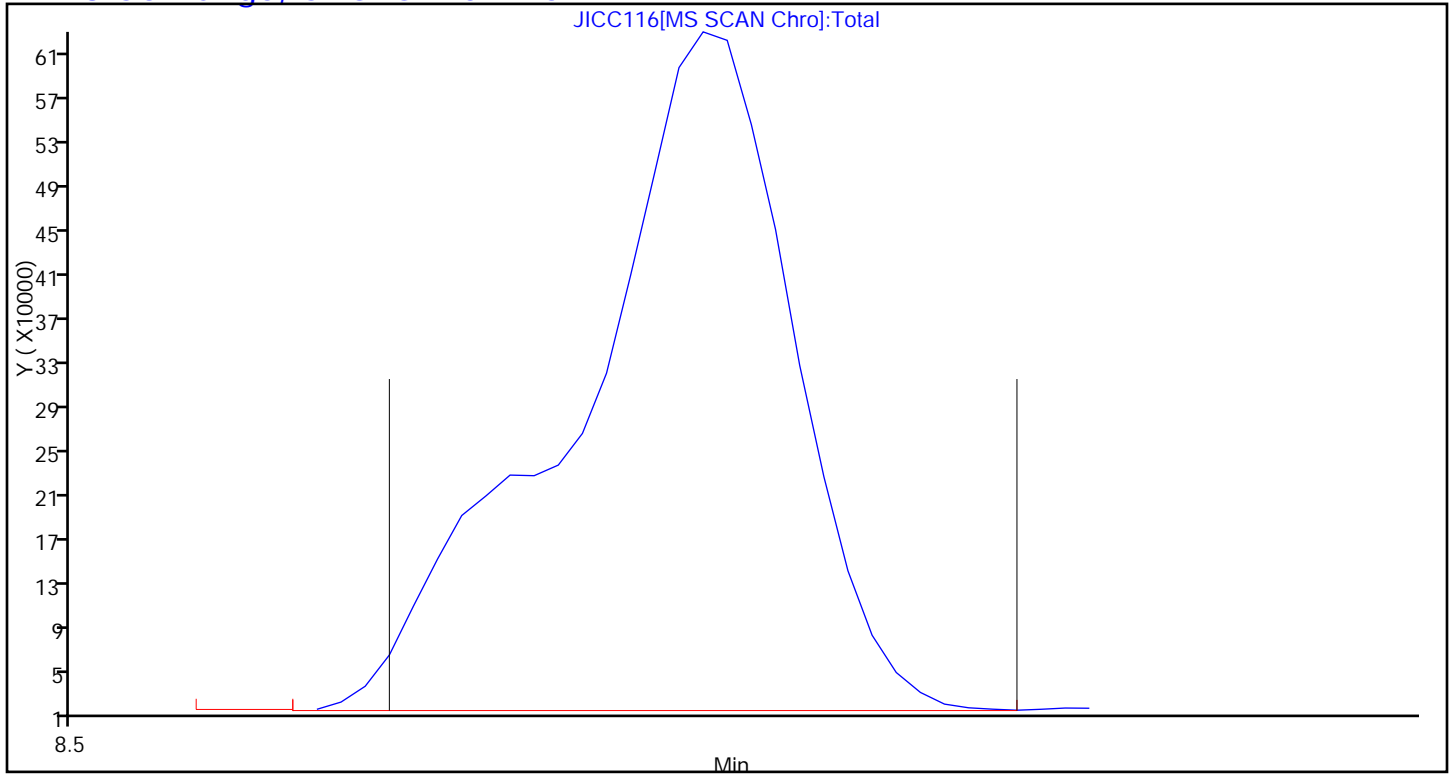
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30 Instrument ID: MJ

Lims ID: ICIS L6 Lab Sample ID:

Client ID:

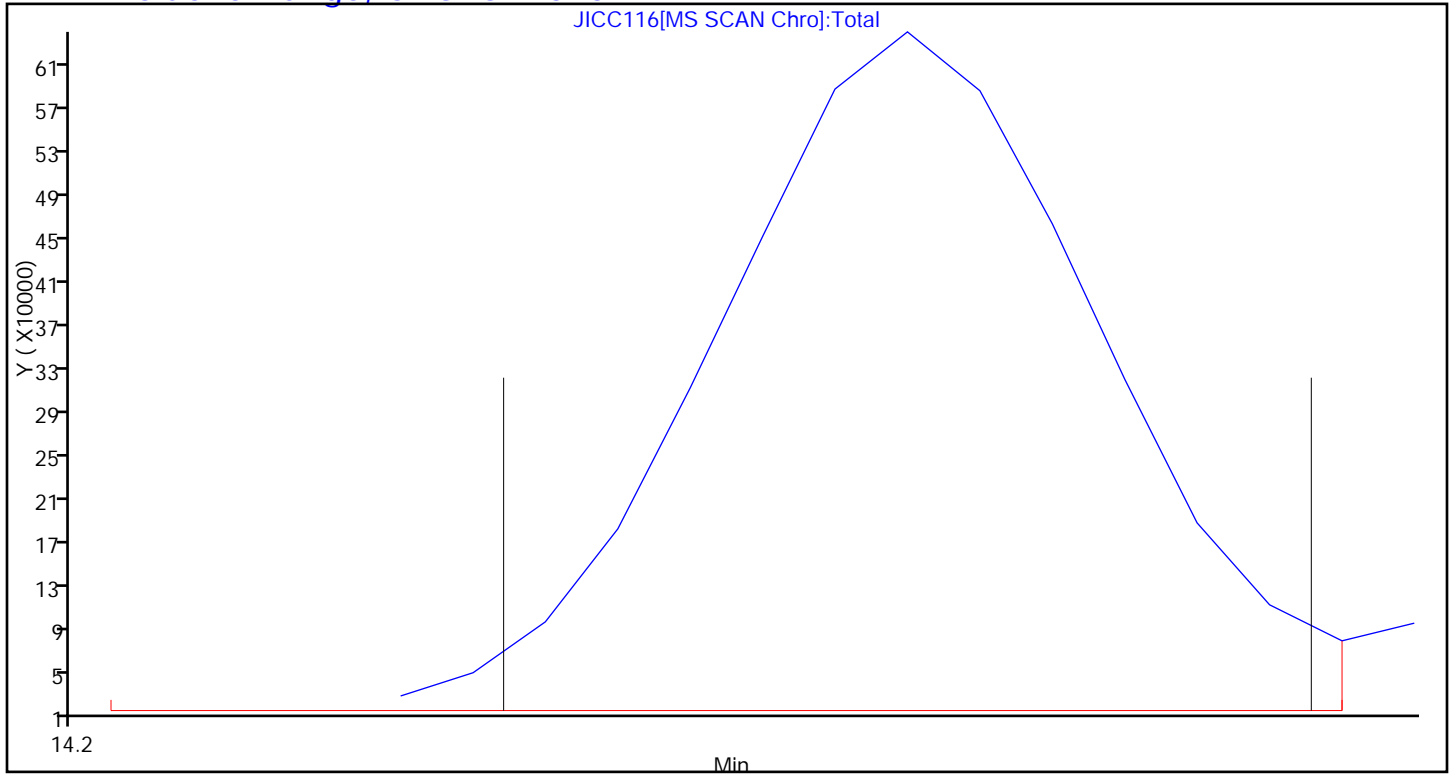
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Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

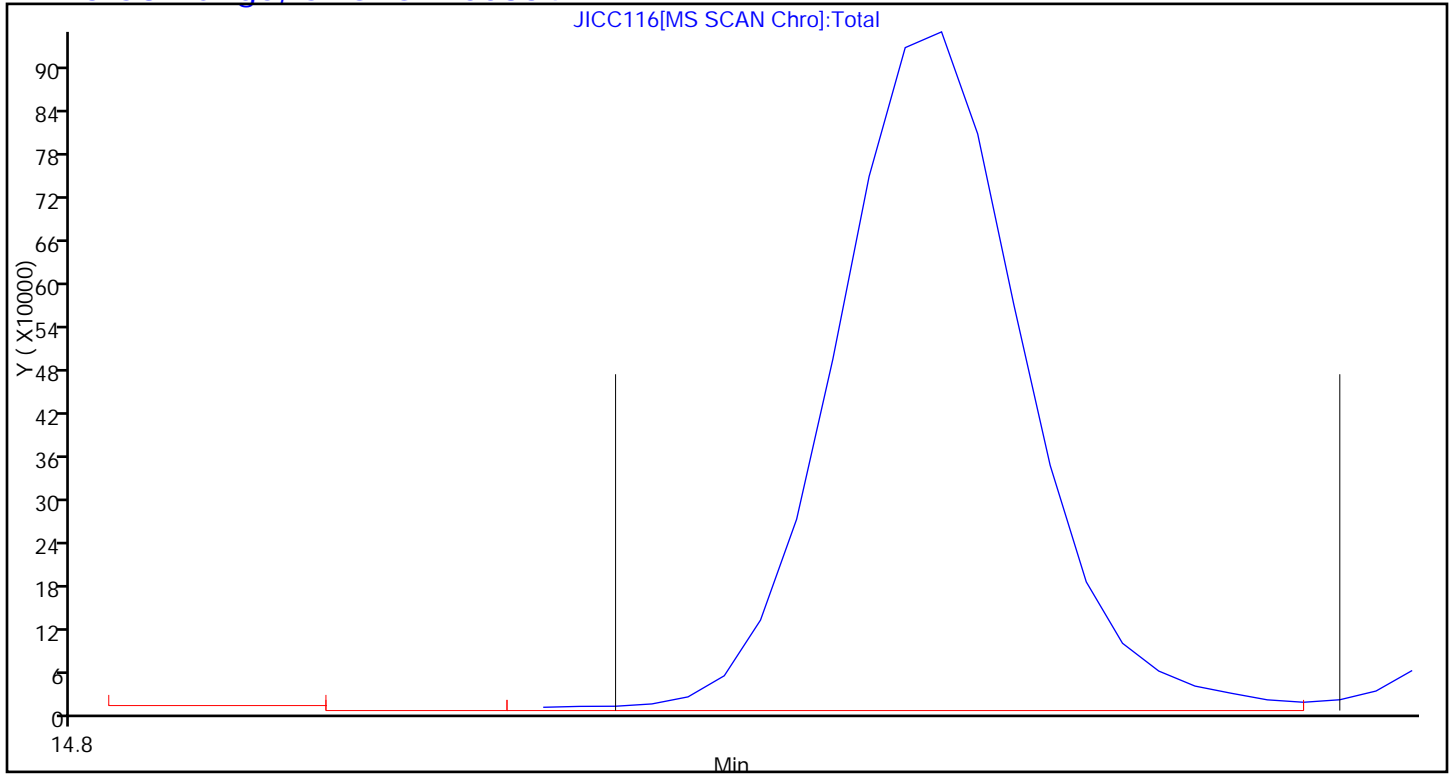
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D
 Lims ID: IC L7 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Mar-2014 18:06:30 ALS Bottle#: 13 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL7,,1,7,,ICAL 4
 Misc. Info.: J031114I,TO15,,140-0000516-008
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.391	9.392	-0.001	93	348015	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	92	1571787	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1348573	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.826	17.825	0.001	89	982151	4.12	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	127336	3.55	
7 Propene	41	3.973	3.973	0.0	99	380299	3.56	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	1288306	3.74	
9 Chloromethane	52	4.232	4.230	0.002	99	142083	3.63	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	1010496	3.88	
11 Acetaldehyde	44	4.398	4.398	0.0	98	590590	17.2	
12 Vinyl chloride	62	4.420	4.419	0.001	99	481131	3.73	
14 Butadiene	54	4.517	4.517	0.0	66	332507	3.71	
13 Butane	43	4.517	4.517	0.0	85	651614	3.55	
15 Bromomethane	94	4.872	4.871	0.001	99	483336	3.68	
16 Chloroethane	64	5.028	5.027	0.001	99	220811	3.72	
17 Ethanol	31	5.119	5.122	-0.003	95	536616	19.2	
18 Vinyl bromide	106	5.356	5.357	-0.001	97	427699	3.83	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	537867	3.64	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	97	1161422	3.84	
21 Acrolein	56	5.646	5.650	-0.004	24	99357	3.50	
22 Acetonitrile	40	5.716	5.720	-0.004	99	106520	3.39	
23 Acetone	58	5.770	5.776	-0.006	91	119169	2.41	
24 Isopropyl alcohol	45	5.851	5.858	-0.007	98	503623	3.86	
25 Pentane	72	5.883	5.884	-0.001	98	73196	3.91	
26 Ethyl ether	31	6.050	6.059	-0.009	94	329259	3.62	
27 1,1-Dichloroethene	96	6.400	6.399	0.001	98	372110	3.81	
28 2-Methyl-2-propanol	59	6.475	6.487	-0.012	94	583041	3.62	
29 Acrylonitrile	53	6.496	6.498	-0.002	93	192415	3.72	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	95	813723	3.88	
31 Methylene Chloride	84	6.760	6.759	0.001	95	352418	3.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	92	355060	3.67	
33 Carbon disulfide	76	6.943	6.942	0.001	99	1258326	3.84	
34 trans-1,2-Dichloroethene	96	7.610	7.609	0.001	99	451426	3.84	
35 2-Methylpentane	43	7.631	7.631	0.0	95	1006835	3.75	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	673998	3.79	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	703411	3.83	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	596834	3.71	
39 2-Butanone (MEK)	72	8.594	8.601	-0.007	100	125222	3.80	
40 Hexane	56	8.643	8.642	0.001	88	346825	3.71	
41 cis-1,2-Dichloroethene	96	9.052	9.052	0.0	94	388357	3.87	
42 Ethyl acetate	43	9.224	9.229	-0.005	99	549427	3.83	
43 Chloroform	83	9.401	9.403	-0.002	96	755016	3.72	
44 Tetrahydrofuran	42	9.805	9.816	-0.011	94	291715	3.62	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	807351	3.82	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	96	473508	3.88	
47 n-Butanol	31	10.945	10.958	-0.013	89	133536	3.89	
48 Benzene	78	11.031	11.033	-0.002	97	1059675	3.93	
49 Cyclohexane	69	11.042	11.040	0.002	93	212371	3.99	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	99	893077	4.01	
51 2,3-Dimethylpentane	71	11.150	11.148	0.002	91	243353	3.82	
52 Thiophene	84	11.300	11.297	0.003	96	650293	3.90	
53 Isooctane	57	11.774	11.771	0.003	98	1747868	3.80	
54 n-Heptane	71	12.129	12.130	-0.001	92	367648	3.85	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	85	352739	3.87	
56 Trichloroethene	130	12.252	12.252	0.0	93	487687	3.73	
57 Dibromomethane	93	12.333	12.332	0.001	92	456395	3.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	749991	3.94	
58 1,4-Dioxane	88	12.473	12.483	-0.010	37	131505	4.03	
60 Methyl methacrylate	41	12.548	12.548	0.0	91	333332	4.08	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	683968	3.77	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	661355	4.01	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	94	507092	3.92	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	97	446194	3.99	
65 Toluene	91	14.264	14.262	0.002	94	985546	3.94	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	313466	3.95	
67 2-Methylthiophene	97	14.415	14.413	0.002	97	895031	3.98	
68 3-Methylthiophene	97	14.614	14.612	0.002	99	900038	3.99	
69 2-Hexanone	58	14.689	14.694	-0.005	93	329061	4.02	
70 n-Octane	85	14.926	14.928	-0.002	93	363887	3.96	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	735197	4.20	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	539062	3.97	
73 Tetrachloroethene	129	15.394	15.393	0.001	93	437989	3.76	
75 Chlorobenzene	112	16.255	16.256	-0.001	94	827157	3.87	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	94	1076318	3.91	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	1067867	3.86	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	98	856076	3.95	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	99	1665289	7.47	
79 n-Nonane	57	17.099	17.098	0.001	92	701033	4.04	
81 Bromoform	173	17.148	17.149	-0.001	94	603733	4.37	
80 Styrene	104	17.158	17.157	0.001	97	638753	4.17	
82 o-Xylene	91	17.218	17.220	-0.002	96	854151	3.78	
83 1,1,2,2-Tetrachloroethane	83	17.535	17.534	0.001	99	731970	3.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	174026	3.93	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	1246662	3.87	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	337130	3.97	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	335960	3.79	
88 4-Ethyltoluene	105	18.455	18.454	0.001	97	1212360	4.04	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	93	586616	3.89	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	86	498439	4.61	
91 n-Decane	57	18.794	18.793	0.001	89	760833	4.11	
92 tert-Butylbenzene	119	18.939	18.937	0.002	88	1160846	3.94	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	94	1046672	4.00	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	1534847	3.99	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	649208	3.77	
96 Benzyl chloride	91	19.289	19.288	0.001	98	804987	4.12	
97 1,4-Dichlorobenzene	146	19.300	19.302	-0.002	94	593980	3.71	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	1253285	4.07	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	842178	3.95	
100 Butylcyclohexane	83	19.461	19.460	0.001	94	943677	3.87	
101 2,3-Dihydroindene	117	19.655	19.653	0.002	89	948230	3.96	
102 1,2-Dichlorobenzene	146	19.655	19.653	0.002	82	646950	3.84	
103 n-Butylbenzene	91	19.778	19.777	0.001	97	1183694	4.14	
104 Indene	116	19.778	19.781	-0.003	86	918630	4.39	
105 Undecane	57	20.069	20.068	0.001	96	752219	4.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	96	1174726	4.07	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	1242657	4.28	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	763734	4.03	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	97	969881	4.13	
110 Dodecane	57	21.145	21.148	-0.003	95	748275	3.88	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	317385	4.24	
112 Naphthalene	128	21.527	21.527	0.0	99	840765	3.96	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	569891	3.96	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	564546	3.69	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	366981	3.79	
116 2-Methylnaphthalene	142	22.447	22.449	-0.003	96	634411	28.1	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	631891	27.2	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	915837	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	861034	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	88	814994	NR	
A 118 C6 Range	1	8.643	8.573 - 8.713		0	3810714	3.75	
A 122 Toluene Range	1	14.264	14.234 - 14.294		0	2348373	3.85	
A 123 C8 Range	1	14.926	14.878 - 14.974		0	3391784	3.59	
S 124 Xylenes, Total	100				0		11.2	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L7

Lab Sample ID:

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

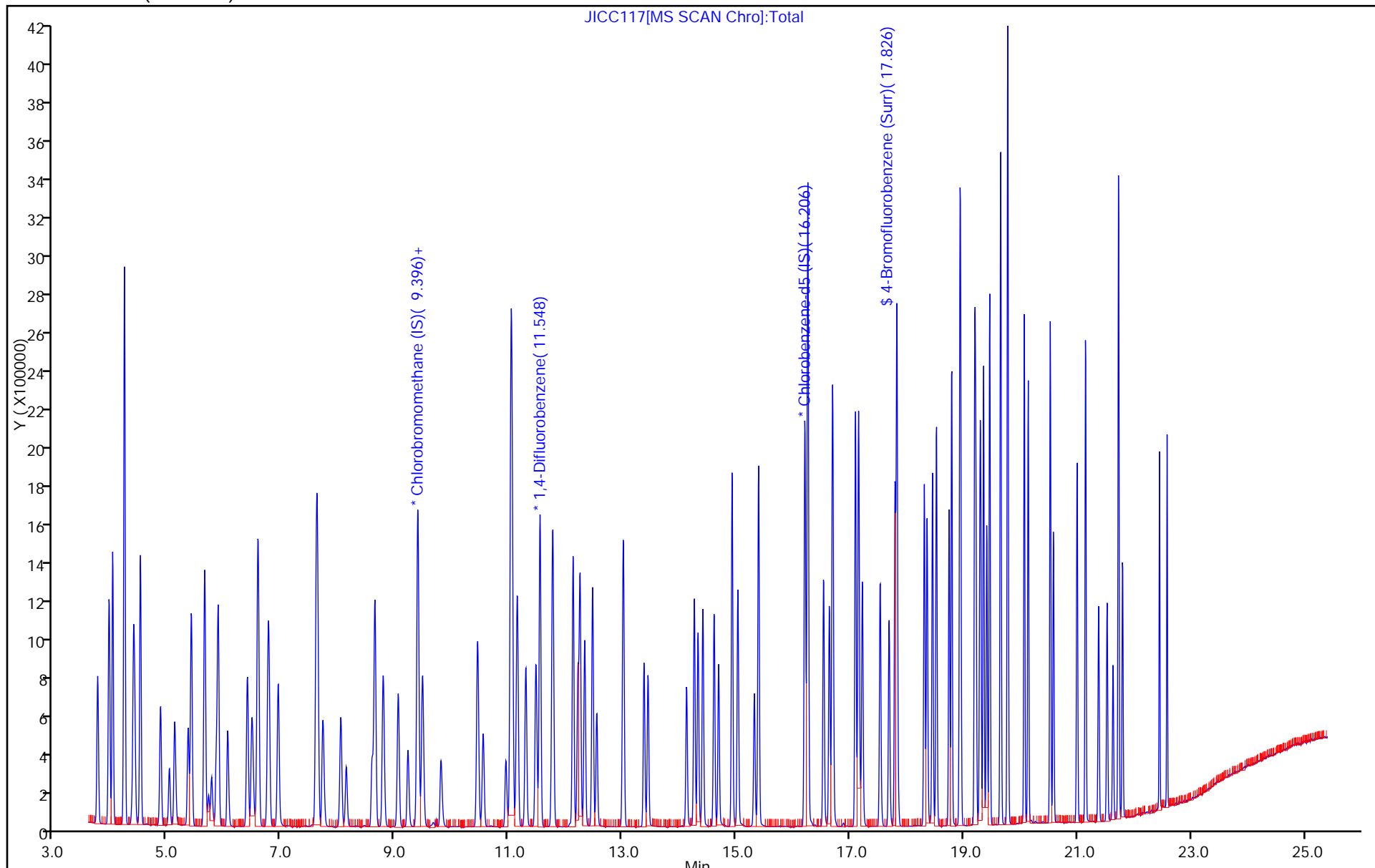
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

Client ID:

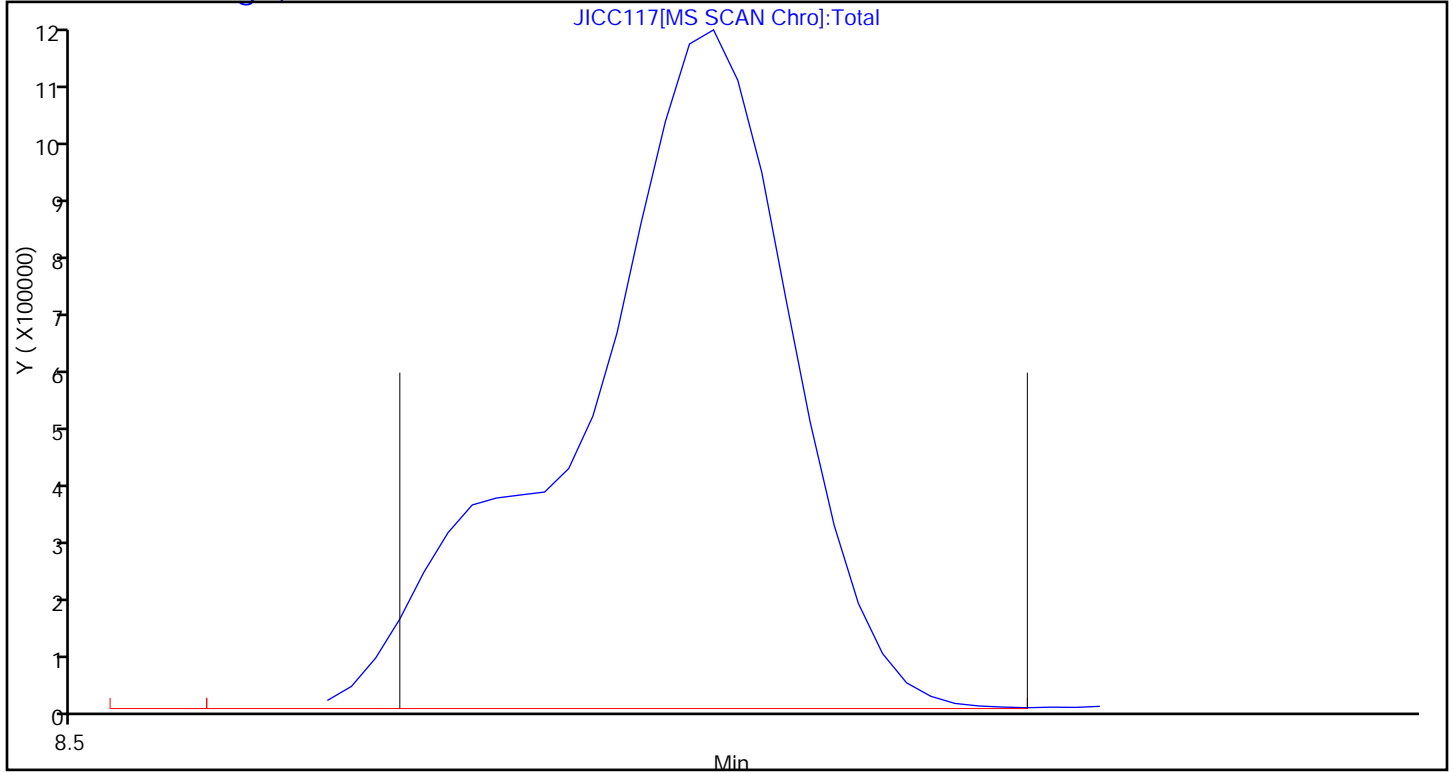
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

Client ID:

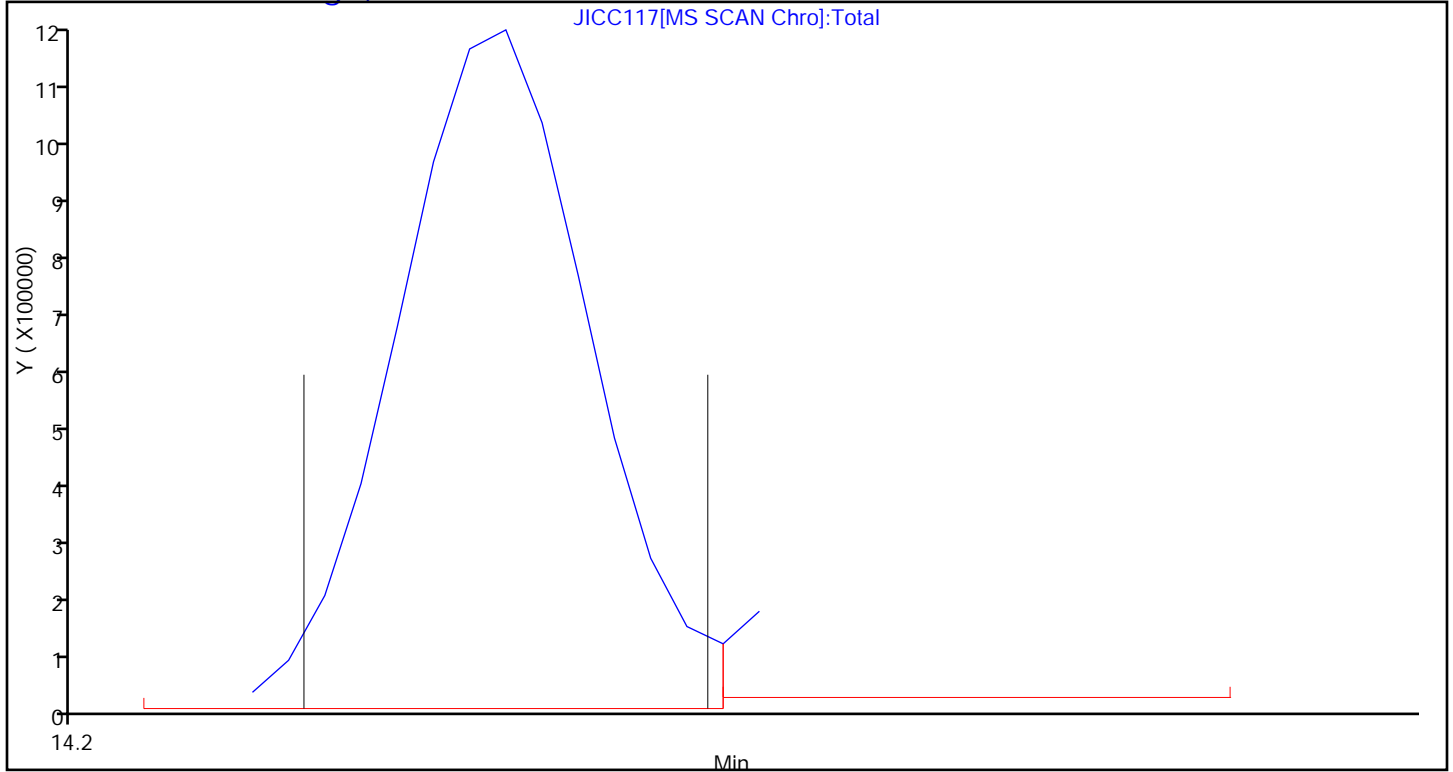
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

Client ID:

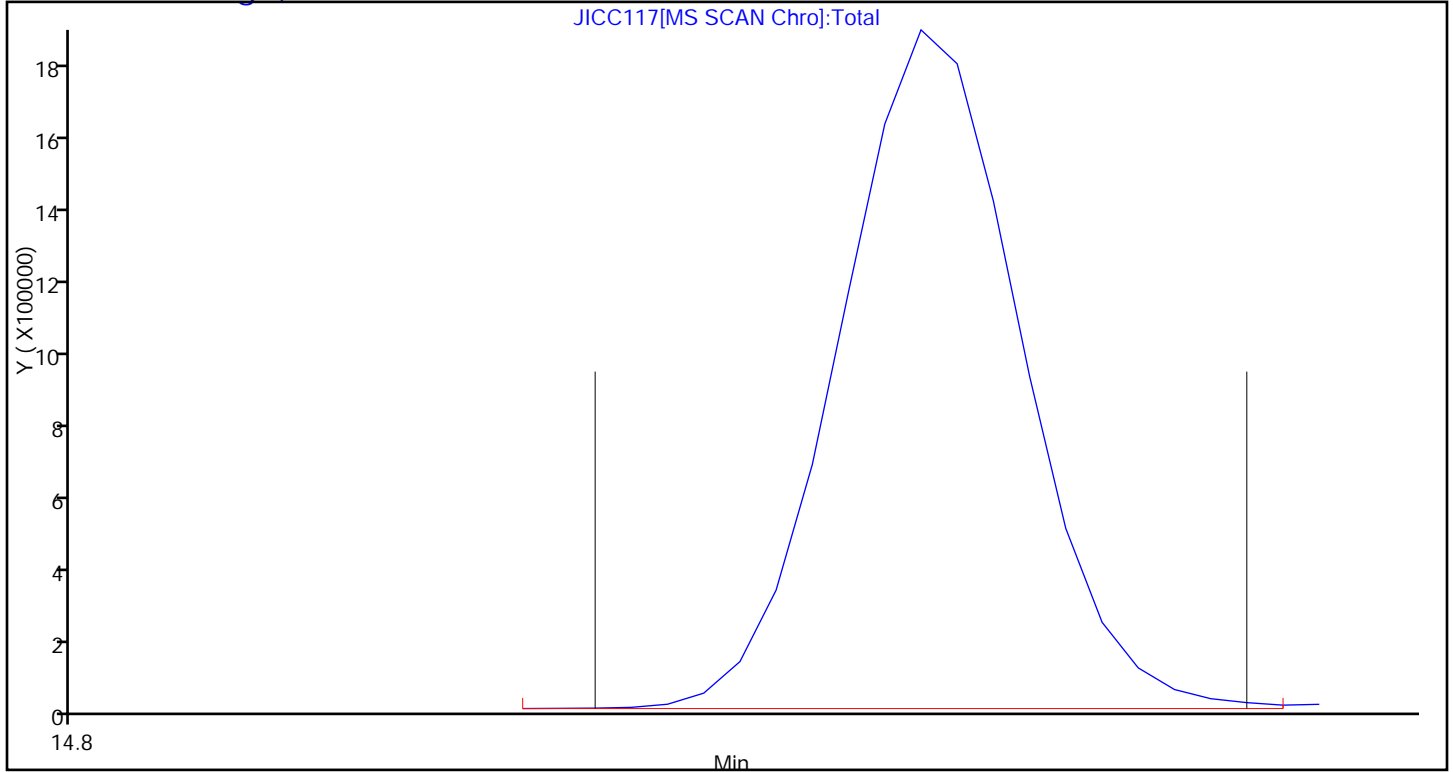
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D
 Lims ID: IC L8 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Mar-2014 19:02:30 ALS Bottle#: 14 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL8,,1,8,,ICAL 8
 Misc. Info.: J031114I,TO15,,140-0000516-009
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:50 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.397	9.392	0.005	91	318482	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.547	0.002	92	1412691	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1299560	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.825	0.002	89	938909	4.08	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	97	267278	8.13	
7 Propene	41	3.969	3.973	-0.004	99	770175	7.89	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	99	2653935	8.41	
9 Chloromethane	52	4.228	4.230	-0.002	98	285173	7.96	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.238	4.238	0.0	88	2110535	8.86	
11 Acetaldehyde	44	4.400	4.398	0.002	96	1285979	40.9	
12 Vinyl chloride	62	4.416	4.419	-0.003	99	984783	8.34	
14 Butadiene	54	4.518	4.517	0.001	68	680934	8.30	
13 Butane	43	4.518	4.517	0.001	85	1303426	7.76	
15 Bromomethane	94	4.873	4.871	0.002	99	1011303	8.42	
16 Chloroethane	64	5.029	5.027	0.002	99	455037	8.38	
17 Ethanol	31	5.126	5.122	0.004	94	988374	38.7	
18 Vinyl bromide	106	5.357	5.357	0.0	98	901463	8.83	
19 2-Methylbutane	43	5.411	5.411	0.0	92	1083786	8.01	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	99	2393900	8.64	
21 Acrolein	56	5.648	5.650	-0.002	51	250642	9.64	
22 Acetonitrile	40	5.718	5.720	-0.002	99	251140	8.75	
23 Acetone	58	5.772	5.776	-0.004	77	235590	5.20	
24 Isopropyl alcohol	45	5.858	5.858	0.0	98	1005537	8.41	
25 Pentane	72	5.884	5.884	0.0	98	151771	8.86	
26 Ethyl ether	31	6.051	6.059	-0.008	94	699710	8.40	
27 1,1-Dichloroethene	96	6.401	6.399	0.002	98	763429	8.54	
28 2-Methyl-2-propanol	59	6.482	6.487	-0.005	94	1230118	8.35	
29 Acrylonitrile	53	6.498	6.498	0.0	92	432058	9.13	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	96	1646524	8.57	
31 Methylene Chloride	84	6.761	6.759	0.002	94	670417	7.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.783	6.778	0.005	94	664240	7.49	
33 Carbon disulfide	76	6.944	6.942	0.002	99	2556516	8.53	
34 trans-1,2-Dichloroethene	96	7.611	7.609	0.002	99	850575	7.90	
35 2-Methylpentane	43	7.633	7.631	0.002	96	1918287	7.81	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	1374295	8.45	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	100	1269839	7.56	
38 Vinyl acetate	43	8.138	8.141	-0.003	100	1340341	9.10	
39 2-Butanone (MEK)	72	8.596	8.601	-0.005	100	243895	8.09	
40 Hexane	56	8.644	8.642	0.002	90	651848	7.61	
41 cis-1,2-Dichloroethene	96	9.053	9.052	0.001	94	706076	7.68	
42 Ethyl acetate	43	9.225	9.229	-0.004	99	1084225	8.26	
43 Chloroform	83	9.408	9.403	0.005	97	1379316	7.43	
44 Tetrahydrofuran	42	9.806	9.816	-0.010	93	599765	8.13	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	1426505	7.38	
46 1,2-Dichloroethane	62	10.548	10.547	0.001	96	840072	7.67	
47 n-Butanol	31	10.947	10.958	-0.011	86	287181	9.30	
48 Benzene	78	11.033	11.033	0.0	97	1886757	7.78	
49 Cyclohexane	69	11.043	11.040	0.003	90	372992	7.80	
50 Carbon tetrachloride	117	11.060	11.059	0.001	99	1616119	8.07	
51 2,3-Dimethylpentane	71	11.151	11.148	0.003	92	450381	7.88	
52 Thiophene	84	11.302	11.297	0.005	96	1166754	7.79	
53 Isooctane	57	11.775	11.771	0.004	98	3277019	7.92	
54 n-Heptane	71	12.130	12.130	0.0	91	706282	8.24	
55 1,2-Dichloropropane	63	12.216	12.214	0.002	85	610860	7.46	
56 Trichloroethene	130	12.254	12.252	0.002	96	953846	8.11	
57 Dibromomethane	93	12.334	12.332	0.002	93	853084	7.91	
59 Dichlorobromomethane	83	12.474	12.472	0.002	99	1438067	8.41	
58 1,4-Dioxane	88	12.474	12.483	-0.009	36	263409	8.97	
60 Methyl methacrylate	41	12.544	12.548	-0.004	91	682355	9.28	
61 Methylcyclohexane	83	13.012	13.013	-0.001	96	1256319	7.70	
62 4-Methyl-2-pentanone (MIBK)	43	13.378	13.382	-0.004	97	1423315	9.61	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	94	928432	7.99	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	97	879585	8.17	
65 Toluene	91	14.266	14.262	0.004	94	1869974	7.76	
66 1,1,2-Trichloroethane	83	14.330	14.328	0.002	96	586633	7.68	
67 2-Methylthiophene	97	14.416	14.413	0.003	97	1636492	7.55	
68 3-Methylthiophene	97	14.615	14.612	0.003	99	1654764	7.61	
69 2-Hexanone	58	14.691	14.694	-0.003	94	755508	9.57	
70 n-Octane	85	14.927	14.928	-0.001	92	718344	8.12	
71 Chlorodibromomethane	129	15.030	15.027	0.003	95	1496245	8.87	
72 Ethylene Dibromide	107	15.320	15.317	0.003	98	1055365	8.06	
73 Tetrachloroethene	129	15.395	15.393	0.002	95	851426	7.58	
75 Chlorobenzene	112	16.256	16.256	0.0	92	1616541	7.85	
74 2,3-Dimethylheptane	43	16.261	16.260	0.001	91	1960561	7.39	
76 Ethylbenzene	91	16.536	16.536	0.0	98	2251254	8.45	
77 2-Ethylthiophene	97	16.638	16.638	0.0	97	1757131	8.42	
78 m-Xylene & p-Xylene	91	16.697	16.696	0.001	98	3582524	16.7	
79 n-Nonane	57	17.101	17.098	0.003	90	1384118	8.28	
81 Bromoform	173	17.149	17.149	0.0	94	1345387	10.1	
80 Styrene	104	17.160	17.157	0.003	97	1446724	9.80	
82 o-Xylene	91	17.219	17.220	-0.001	97	1860295	8.54	
83 1,1,2,2-Tetrachloroethane	83	17.536	17.534	0.002	99	1658051	9.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.692	17.690	0.002	97	398010	9.32	
85 Isopropylbenzene	105	17.795	17.793	0.002	96	2789508	8.99	
86 N-Propylbenzene	120	18.311	18.310	0.001	99	814479	9.95	
87 2-Chlorotoluene	126	18.359	18.357	0.002	96	748591	8.76	
88 4-Ethyltoluene	105	18.456	18.454	0.002	97	2848420	9.84	
89 1,3,5-Trimethylbenzene	120	18.526	18.524	0.002	94	1440763	9.90	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	86	1265706	12.1	
91 n-Decane	57	18.795	18.793	0.002	90	1630218	9.15	
92 tert-Butylbenzene	119	18.940	18.937	0.003	88	2882125	10.1	
93 1,2,4-Trimethylbenzene	105	18.951	18.949	0.002	90	2560408	10.1	
94 sec-Butylbenzene	105	19.199	19.196	0.003	97	3698797	9.99	
95 1,3-Dichlorobenzene	146	19.220	19.217	0.003	98	1658482	10.0	
96 Benzyl chloride	91	19.290	19.288	0.002	99	2044904	10.8	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	95	1570678	10.2	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	87	3044134	10.3	
99 1,2,3-Trimethylbenzene	105	19.408	19.409	-0.001	97	2027503	9.86	
100 Butylcyclohexane	83	19.462	19.460	0.002	95	1999366	8.52	
101 2,3-Dihydroindene	117	19.656	19.653	0.003	90	2414878	10.5	
102 1,2-Dichlorobenzene	146	19.656	19.653	0.003	84	1699055	10.5	
103 n-Butylbenzene	91	19.780	19.777	0.003	97	2897714	10.5	
104 Indene	116	19.780	19.781	-0.001	86	2436478	12.1	
105 Undecane	57	20.070	20.068	0.002	94	1801735	10.0	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.140	20.138	0.002	96	2922288	10.5	
108 1,2,4,5-Tetramethylbenzene	119	20.527	20.525	0.002	97	3137565	11.2	
107 1,2,3,5-Tetramethylbenzene	119	20.581	20.582	-0.001	96	1875036	10.3	
109 1,2,3,4-Tetramethylbenzene	119	21.001	20.998	0.003	97	2444837	10.8	
110 Dodecane	57	21.146	21.148	-0.002	96	1806559	9.72	
111 1,2,4-Trichlorobenzene	180	21.377	21.379	-0.002	92	910586	12.6	
112 Naphthalene	128	21.528	21.527	0.001	99	2216472	10.8	
113 Benzo(b)thiophene	134	21.630	21.631	-0.001	99	1529823	11.0	
114 Hexachlorobutadiene	225	21.727	21.729	-0.002	85	1511092	10.2	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	94	979161	10.5	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	96	1671920	76.9	
117 1-Methylnaphthalene	142	22.582	22.583	-0.001	95	1506542	67.2	
139 Isopropyl ether	45	8.789	8.794	-0.005	97	1812554	NR	
142 Tert-butyl ethyl ether	59	9.483	9.487	-0.004	95	1742738	NR	
140 Tert-amyl methyl ether	73	11.474	11.482	-0.008	92	1719215	NR	
A 118 C6 Range	1	8.639	8.563 -	8.714	0	7329744	7.88	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	4461089	7.59	
A 123 C8 Range	1	14.927	14.879 -	14.976	0	6451566	7.09	
S 124 Xylenes, Total	100				0		25.2	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L8

Lab Sample ID:

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

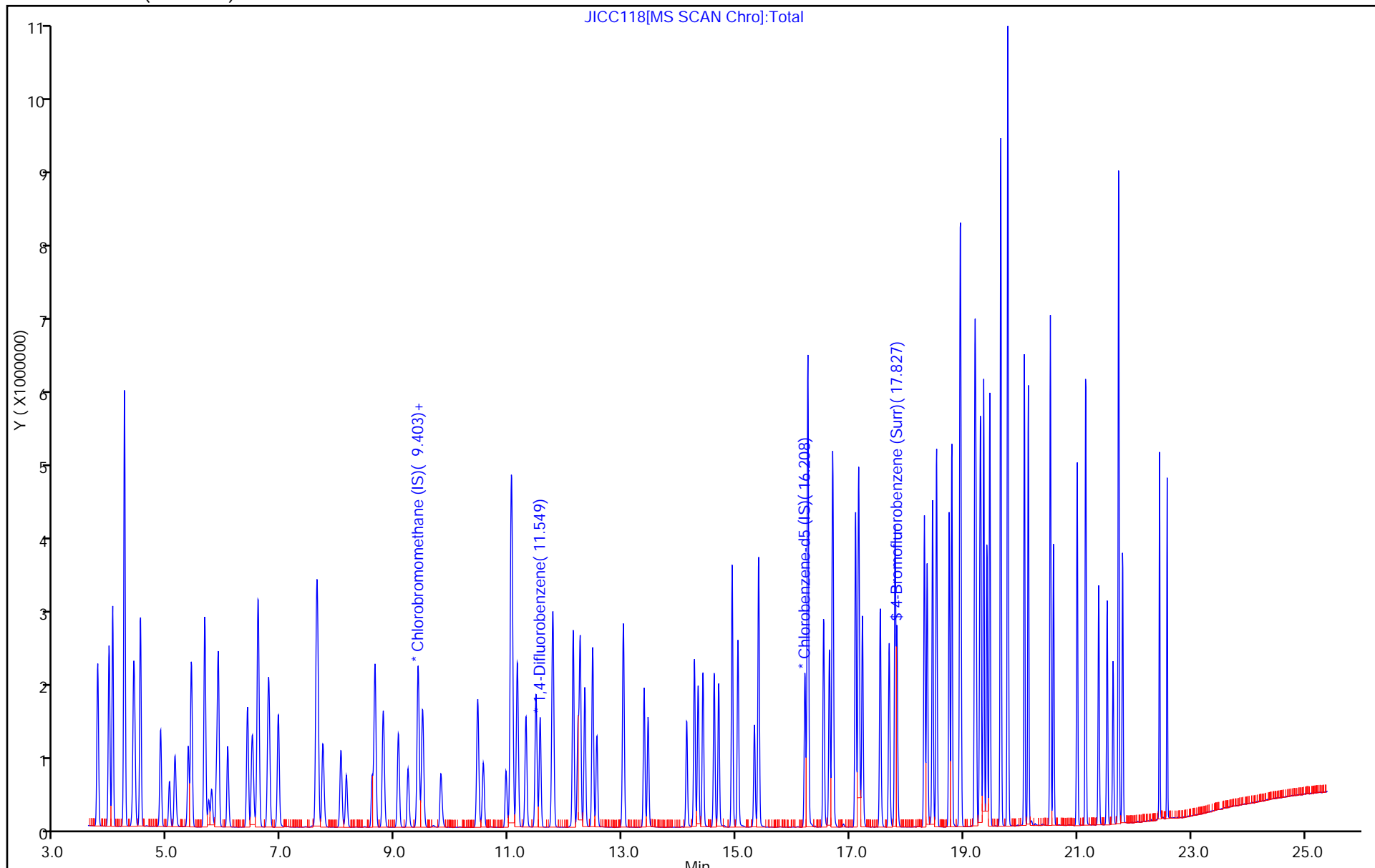
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

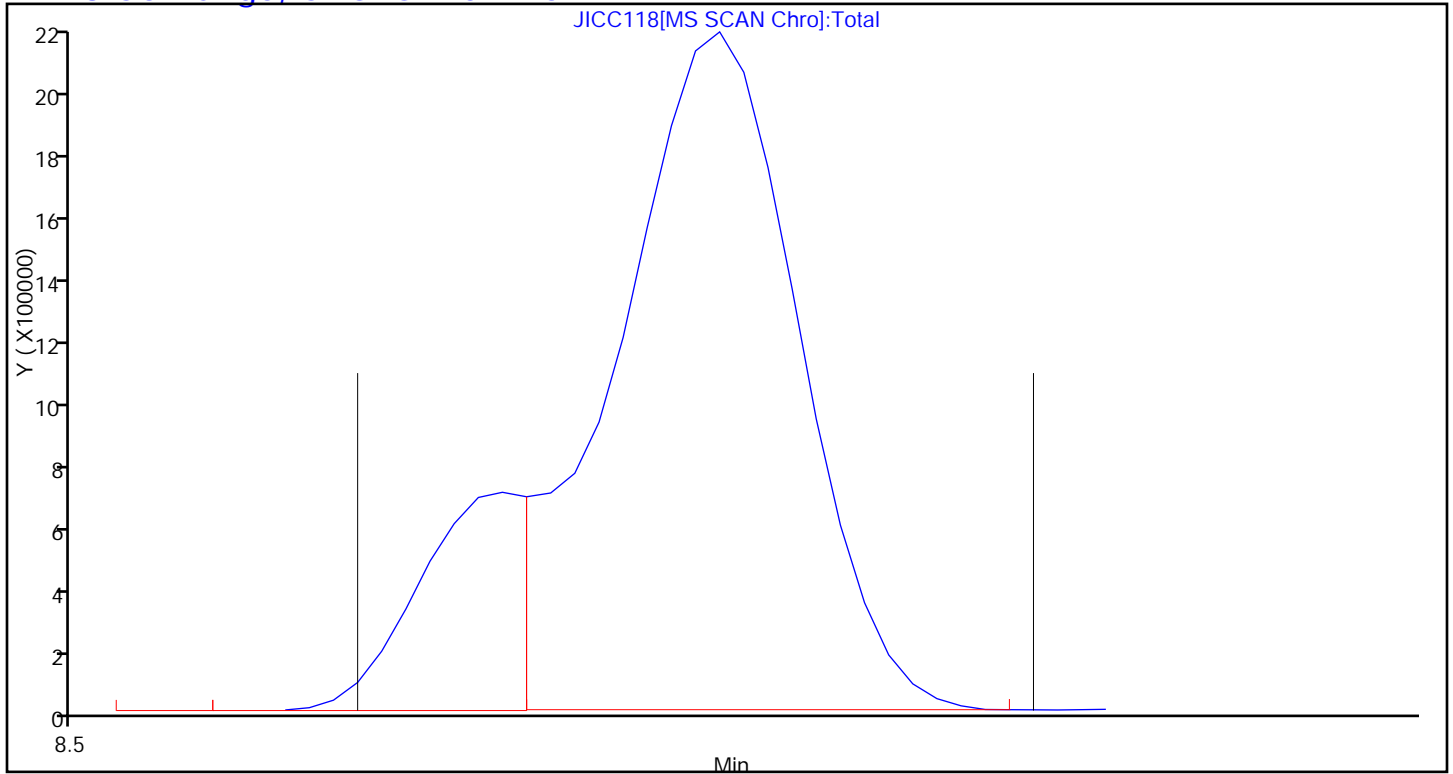
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

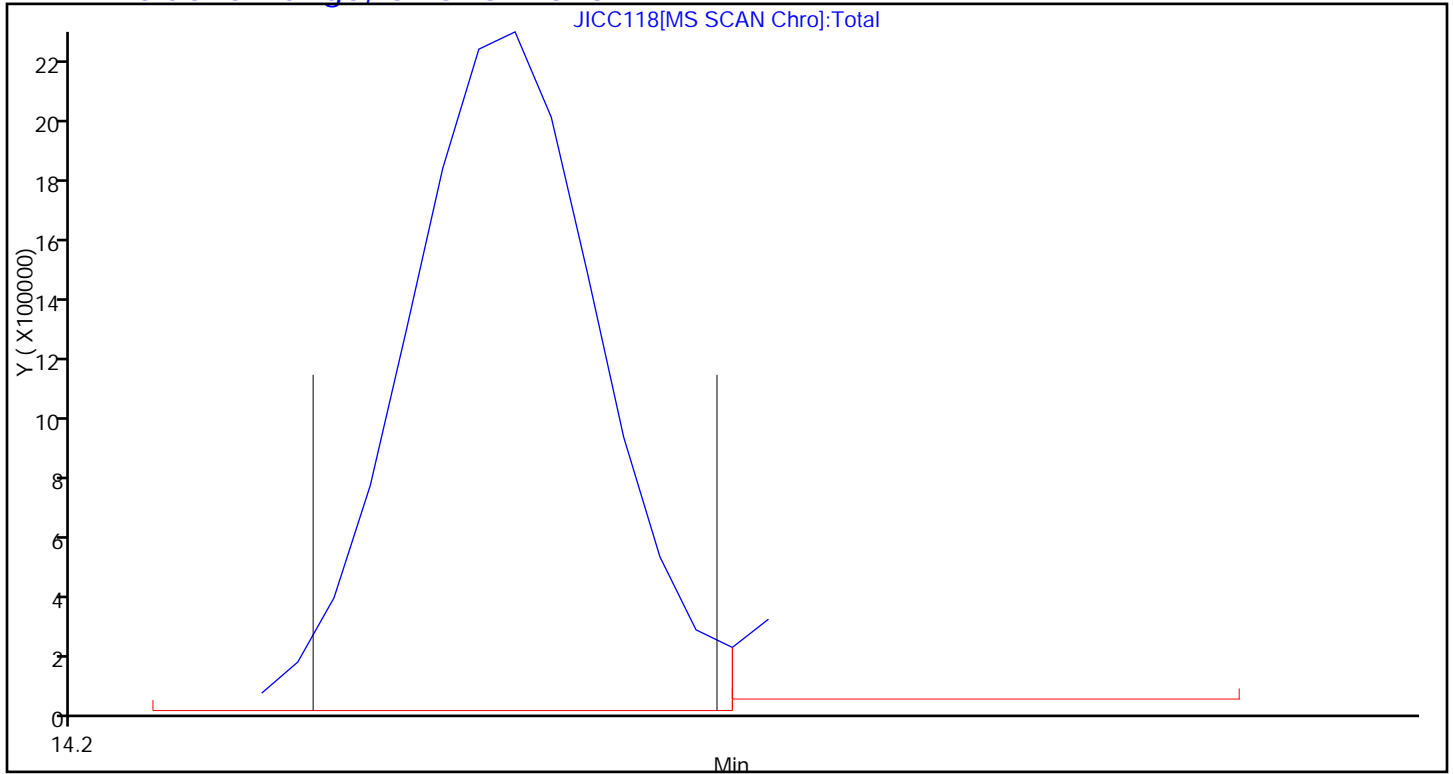
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Lims ID: IC L8

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

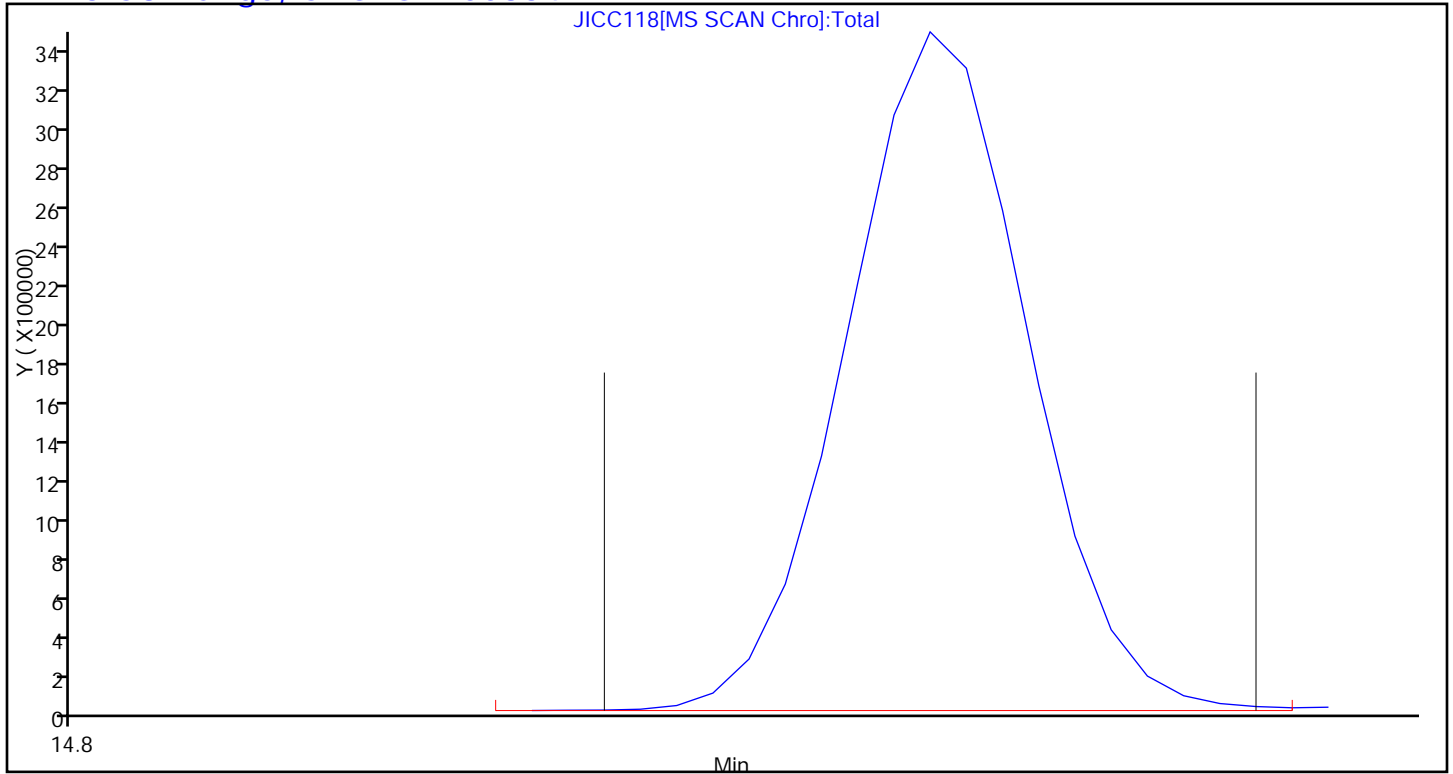
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Lims ID: IC L9 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 11-Mar-2014 19:57:30 ALS Bottle#: 15 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL9,,1,9,,ICAL 16
 Misc. Info.: J031114I,TO15,,140-0000516-010
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:43 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.392	0.011	95	350824	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.547	0.008	89	1417201	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.208	0.006	86	1302893	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	89	942607	4.09	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	96	505684	14.0	
7 Propene	41	3.970	3.973	-0.003	99	1458925	13.6	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	98	4882515	14.1	
9 Chloromethane	52	4.228	4.230	-0.002	99	494916	12.5	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	85	3992171	15.2	
11 Acetaldehyde	44	4.401	4.398	0.003	96	2205919	63.7	
12 Vinyl chloride	62	4.422	4.419	0.003	99	1770210	13.6	
14 Butadiene	54	4.519	4.517	0.002	69	1224939	13.6	
13 Butane	43	4.519	4.517	0.002	84	2267439	12.3	
15 Bromomethane	94	4.874	4.871	0.003	99	1918491	14.5	
16 Chloroethane	64	5.030	5.027	0.003	99	852776	14.3	
17 Ethanol	31	5.132	5.122	0.010	93	1841235	65.4	
18 Vinyl bromide	106	5.363	5.357	0.006	99	1753642	15.6	
19 2-Methylbutane	43	5.417	5.411	0.006	91	1976924	13.3	
20 Trichlorofluoromethane	101	5.654	5.647	0.007	99	4559353	14.9	
21 Acrolein	56	5.654	5.650	0.004	82	437980	15.3	
22 Acetonitrile	40	5.724	5.720	0.004	99	477609	15.1	
23 Acetone	58	5.772	5.776	-0.004	77	454598	9.12	
24 Isopropyl alcohol	45	5.864	5.858	0.006	86	1891993	14.4	
25 Pentane	72	5.891	5.884	0.007	98	289822	15.4	
26 Ethyl ether	31	6.057	6.059	-0.002	95	1293462	14.1	
27 1,1-Dichloroethene	96	6.407	6.399	0.008	100	1499326	15.2	
28 2-Methyl-2-propanol	59	6.493	6.487	0.006	94	2357157	14.5	
29 Acrylonitrile	53	6.504	6.498	0.006	94	846522	16.2	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	97	3210350	15.2	
31 Methylene Chloride	84	6.767	6.759	0.008	92	1306630	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.789	6.778	0.011	94	1253863	12.8	
33 Carbon disulfide	76	6.945	6.942	0.003	99	4789123	14.5	
34 trans-1,2-Dichloroethene	96	7.617	7.609	0.008	96	1705804	14.4	
35 2-Methylpentane	43	7.639	7.631	0.008	92	3402713	12.6	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	2584260	14.4	
37 1,1-Dichloroethane	63	8.048	8.041	0.007	100	2513809	13.6	
38 Vinyl acetate	43	8.145	8.141	0.004	100	2572051	15.9	
39 2-Butanone (MEK)	72	8.597	8.601	-0.005	100	487204	14.7	
40 Hexane	56	8.650	8.642	0.008	90	1264226	13.4	
41 cis-1,2-Dichloroethene	96	9.059	9.052	0.007	93	1451411	14.3	
42 Ethyl acetate	43	9.231	9.229	0.002	99	2092150	14.5	
43 Chloroform	83	9.414	9.403	0.011	97	2790275	13.6	
44 Tetrahydrofuran	42	9.807	9.816	-0.009	93	1179659	14.5	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	2968435	13.9	
46 1,2-Dichloroethane	62	10.555	10.547	0.008	95	1727411	15.7	
47 n-Butanol	31	10.958	10.958	0.0	86	562689	18.2	
48 Benzene	78	11.039	11.033	0.006	97	3816101	15.7	
49 Cyclohexane	69	11.044	11.040	0.004	82	734107	15.3	
50 Carbon tetrachloride	117	11.060	11.059	0.001	98	3477511	17.3	
51 2,3-Dimethylpentane	71	11.152	11.148	0.004	91	895905	15.6	
52 Thiophene	84	11.302	11.297	0.005	95	2407949	16.0	
53 Isooctane	57	11.776	11.771	0.005	97	6188593	14.9	
54 n-Heptane	71	12.136	12.130	0.006	89	1414497	16.4	
55 1,2-Dichloropropane	63	12.222	12.214	0.008	90	1374081	16.7	
56 Trichloroethene	130	12.260	12.252	0.008	94	2020928	17.1	
57 Dibromomethane	93	12.341	12.332	0.009	95	1782109	16.5	
59 Dichlorobromomethane	83	12.475	12.472	0.003	99	2968189	17.3	
58 1,4-Dioxane	88	12.475	12.483	-0.008	55	535040	18.2	
60 Methyl methacrylate	41	12.550	12.548	0.002	89	1312475	17.8	
61 Methylcyclohexane	83	13.018	13.013	0.005	97	2529310	15.5	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	97	2713031	18.3	
63 cis-1,3-Dichloropropene	75	13.454	13.448	0.006	92	2069482	17.7	
64 trans-1,3-Dichloropropene	75	14.132	14.126	0.006	97	1963516	18.2	
65 Toluene	91	14.266	14.262	0.004	92	4086312	16.9	
66 1,1,2-Trichloroethane	83	14.331	14.328	0.003	97	1314579	17.2	
67 2-Methylthiophene	97	14.417	14.413	0.004	96	3652163	16.8	
68 3-Methylthiophene	97	14.616	14.612	0.004	98	3714685	17.0	
69 2-Hexanone	58	14.697	14.694	0.003	95	1451418	18.3	
70 n-Octane	85	14.934	14.928	0.006	89	1469379	16.6	
71 Chlorodibromomethane	129	15.036	15.027	0.009	94	3347546	19.8	
72 Ethylene Dibromide	107	15.321	15.317	0.004	98	2473337	18.8	
73 Tetrachloroethene	129	15.396	15.393	0.003	97	1888055	16.8	
75 Chlorobenzene	112	16.262	16.256	0.006	97	3736744	18.1	
74 2,3-Dimethylheptane	43	16.268	16.260	0.008	85	3283977	12.3	
76 Ethylbenzene	91	16.542	16.536	0.006	97	4621160	17.3	
77 2-Ethylthiophene	97	16.644	16.638	0.006	96	3695934	17.7	
78 m-Xylene & p-Xylene	91	16.703	16.696	0.007	96	7138010	33.1	
79 n-Nonane	57	17.101	17.098	0.003	85	2746405	16.4	
81 Bromoform	173	17.155	17.149	0.006	95	3400531	25.5	
80 Styrene	104	17.161	17.157	0.004	96	3101488	21.0	
82 o-Xylene	91	17.225	17.220	0.005	99	3743538	17.1	
83 1,1,2,2-Tetrachloroethane	83	17.537	17.534	0.003	99	3301073	18.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.693	17.690	0.003	96	836915	19.6	
85 Isopropylbenzene	105	17.801	17.793	0.008	95	5530866	17.8	
86 N-Propylbenzene	120	18.312	18.310	0.002	97	1741082	21.2	
87 2-Chlorotoluene	126	18.360	18.357	0.003	93	1667404	19.5	
88 4-Ethyltoluene	105	18.457	18.454	0.003	96	5599605	19.3	
89 1,3,5-Trimethylbenzene	120	18.527	18.524	0.003	95	3015712	20.7	
90 Alpha Methyl Styrene	118	18.748	18.745	0.003	86	2701607	25.8	
91 n-Decane	57	18.796	18.793	0.003	91	3036195	17.0	
92 tert-Butylbenzene	119	18.941	18.937	0.004	89	5759135	20.2	
93 1,2,4-Trimethylbenzene	105	18.952	18.949	0.003	89	5045591	19.9	
94 sec-Butylbenzene	105	19.199	19.196	0.003	96	7092519	19.1	
95 1,3-Dichlorobenzene	146	19.221	19.217	0.004	95	3841334	23.1	
96 Benzyl chloride	91	19.291	19.288	0.003	95	4188073	22.2	
97 1,4-Dichlorobenzene	146	19.307	19.302	0.005	94	3642996	23.5	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	84	5986441	20.1	
99 1,2,3-Trimethylbenzene	105	19.415	19.409	0.006	96	3990183	19.4	
100 Butylcyclohexane	83	19.463	19.460	0.003	96	4012634	17.1	
101 2,3-Dihydroindene	117	19.657	19.653	0.004	90	4915942	21.3	
102 1,2-Dichlorobenzene	146	19.657	19.653	0.004	89	3809042	23.4	
103 n-Butylbenzene	91	19.780	19.777	0.003	95	5428724	19.7	
104 Indene	116	19.786	19.781	0.005	88	4978609	24.6	
105 Undecane	57	20.071	20.068	0.003	91	3299916	18.3	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	91	5841120	20.9	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	94	6339016	22.6	
107 1,2,3,5-Tetramethylbenzene	119	20.587	20.582	0.005	95	3871454	21.1	
109 1,2,3,4-Tetramethylbenzene	119	21.002	20.998	0.004	94	5109192	22.5	
110 Dodecane	57	21.152	21.148	0.004	96	3052464	16.4	
111 1,2,4-Trichlorobenzene	180	21.384	21.379	0.005	93	2137430	29.5	
112 Naphthalene	128	21.529	21.527	0.002	98	4750981	23.2	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	3355982	24.2	
114 Hexachlorobutadiene	225	21.733	21.729	0.004	82	3388138	22.9	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	95	2025463	21.7	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	96	969606	44.5	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	96	616839	27.4	
139 Isopropyl ether	45	8.796	8.794	0.002	96	3380667	NR	
142 Tert-butyl ethyl ether	59	9.484	9.487	-0.003	94	3237327	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	93	3205213	NR	
A 118 C6 Range	1	8.635	8.553 -	8.736	0	14110311	13.8	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	9697293	16.5	
A 123 C8 Range	1	14.928	14.880 -	14.977	0	12490633	13.7	
S 124 Xylenes, Total	100				0		50.3	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L9

Lab Sample ID:

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

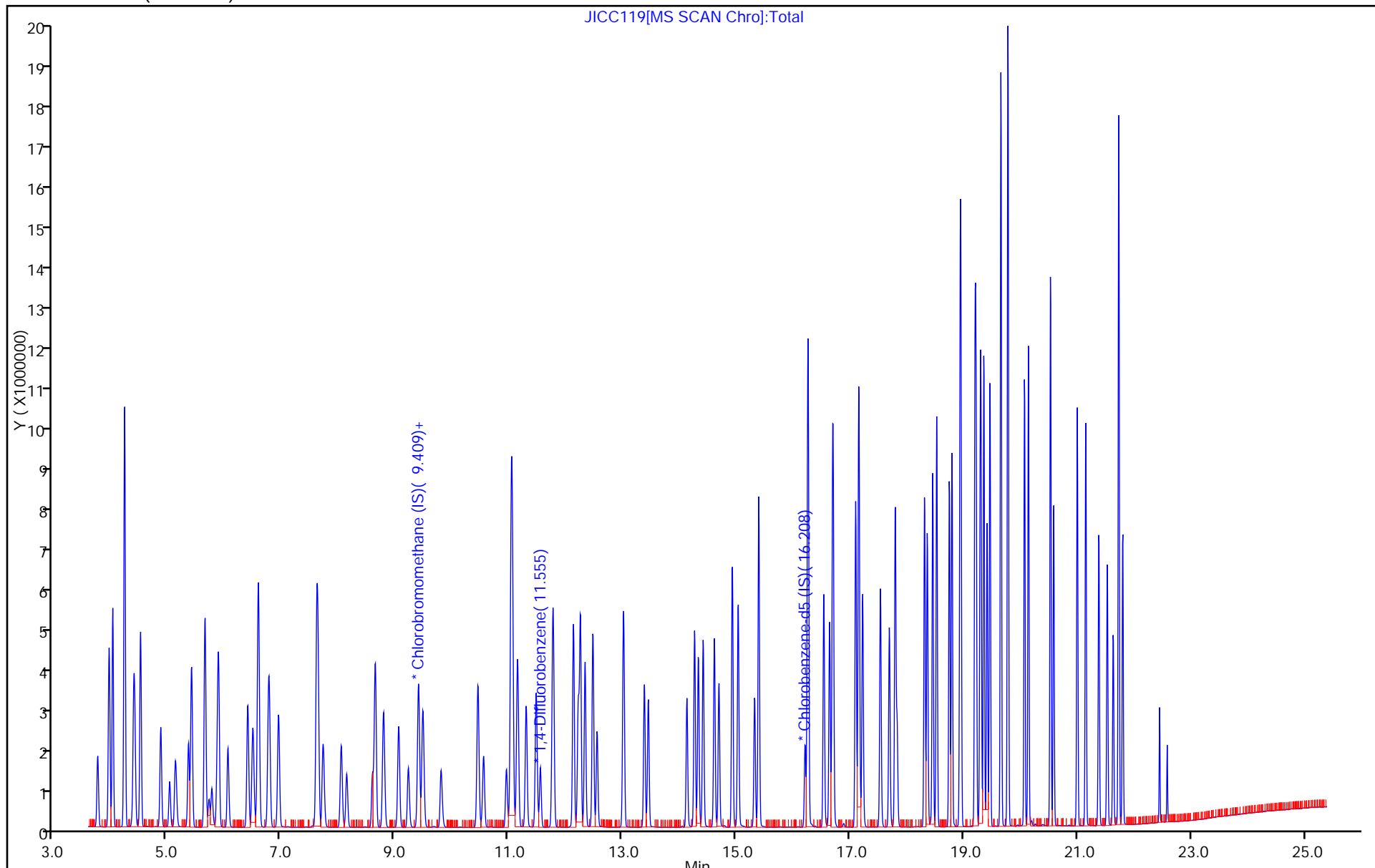
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

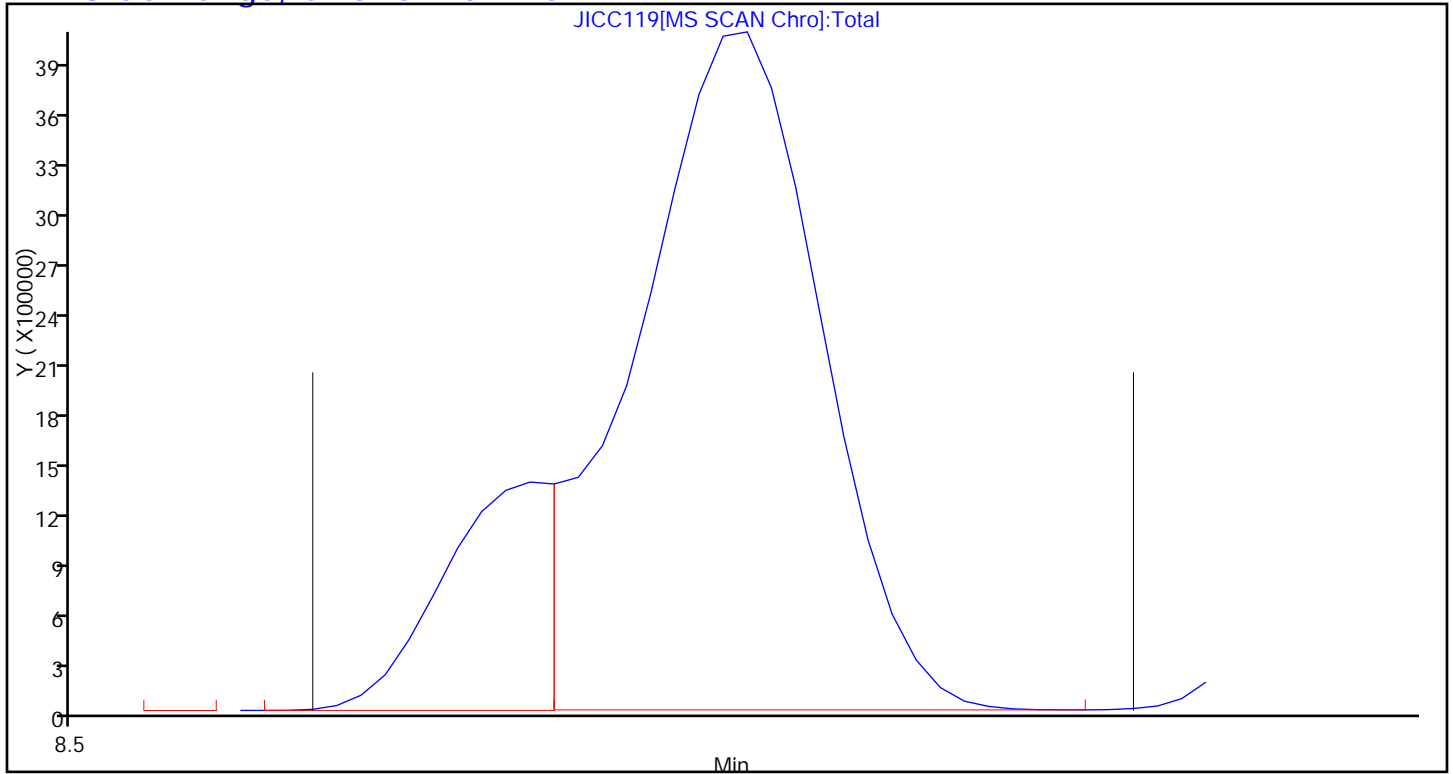
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

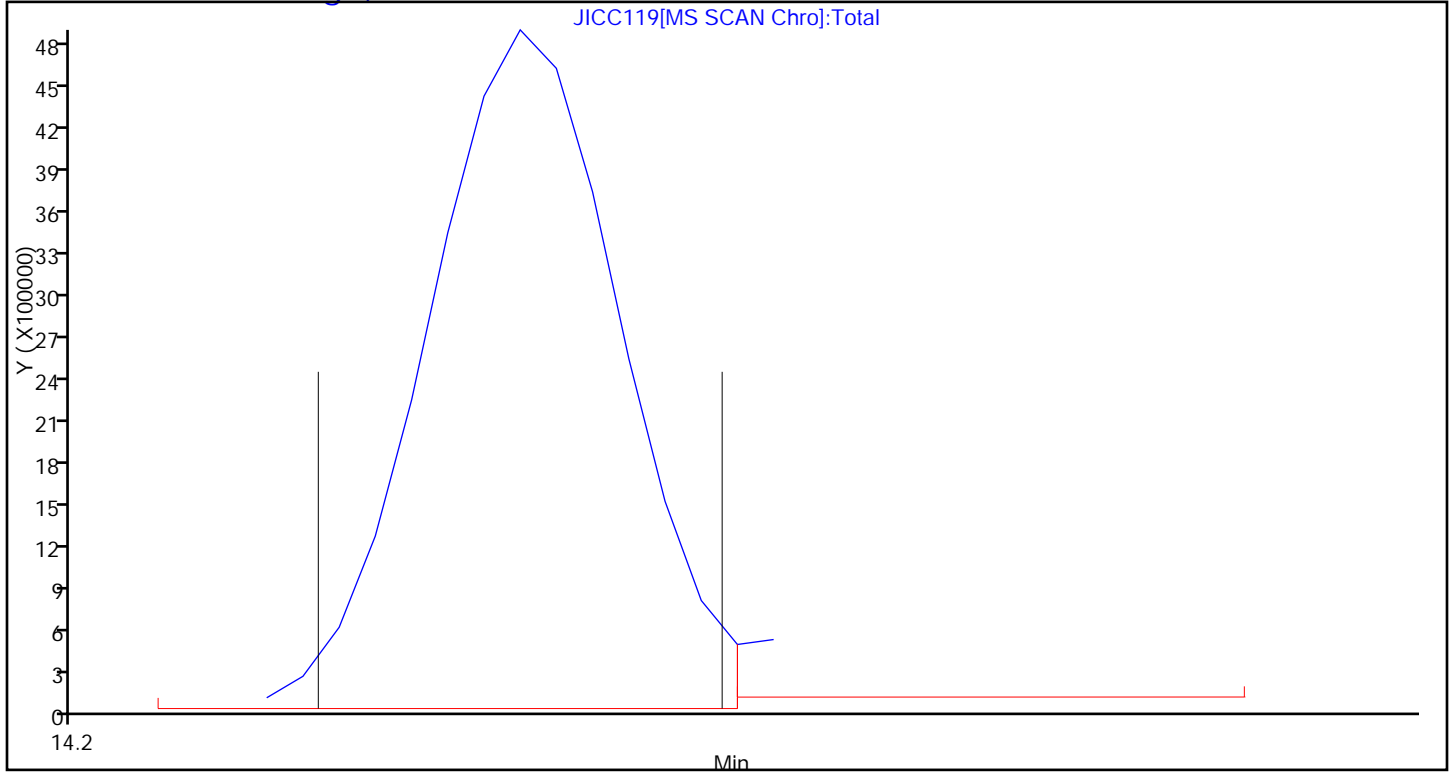
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

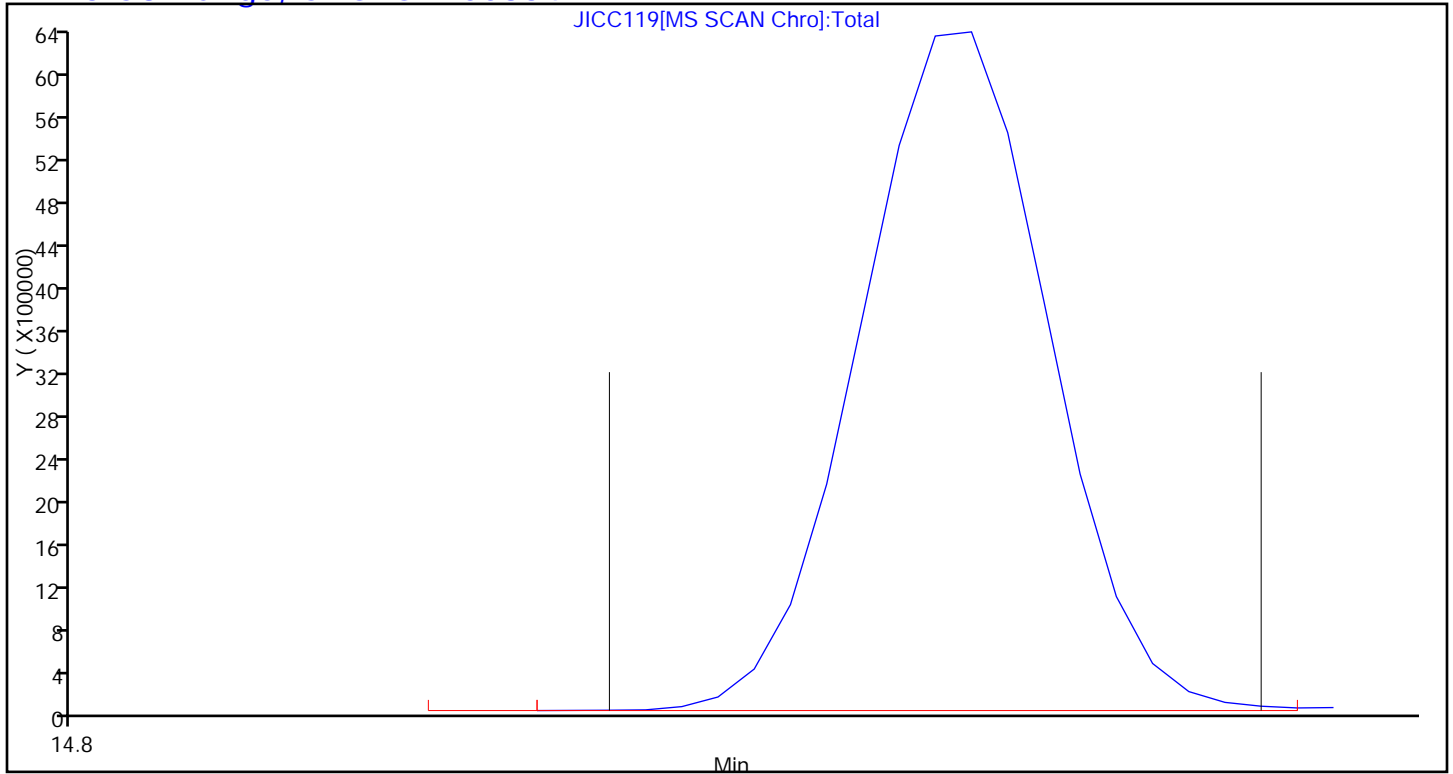
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23
 Instrument ID: ME Calib Start Date: 01/28/2014 14:11
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/28/2014 20:25
 Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.5910		2.11	2.00	5.4	35.0
Propene	Ave	1.006	0.9596		1.91	2.00	-4.6	35.0
Dichlorodifluoromethane	Ave	4.425	4.605		2.08	2.00	4.1	35.0
Chloromethane	Ave	0.3532	0.3820		2.16	2.00	8.1	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	2.533		1.90	2.00	-5.0	35.0
Acetaldehyde	Ave	0.3349	0.3195		9.54	10.0	-4.6	80.0
Vinyl chloride	Ave	1.364	1.477		2.17	2.00	8.3	35.0
1,3-Butadiene	Ave	0.9428	1.029		2.18	2.00	9.1	35.0
Butane	Ave	1.913	1.988		2.08	2.00	3.9	35.0
Bromomethane	Ave	1.473	1.499		2.04	2.00	1.8	35.0
Chloroethane	Ave	0.6922	0.7250		2.09	2.00	4.7	35.0
Ethanol	Ave	0.4001	0.3945		9.86	10.0	-1.4	80.0
Vinyl bromide	Ave	1.331	1.497		2.25	2.00	12.5	35.0
2-Methylbutane	Ave	1.401	1.445		2.06	2.00	3.2	35.0
Trichlorofluoromethane	Ave	4.438	4.555		2.05	2.00	2.6	35.0
Acrolein	Ave	0.4230	0.3159		1.49	2.00	-25.3	35.0
Acetonitrile	Ave	0.3806	0.3556		1.87	2.00	-6.6	35.0
Acetone	Ave	0.6059	0.4114		1.36	2.00	-32.1	35.0
Pentane	Ave	0.2626	0.2651		2.02	2.00	0.9	35.0
Isopropyl alcohol	Ave	1.560	1.535		1.97	2.00	-1.6	35.0
Ethyl ether	Ave	1.018	0.9463		1.86	2.00	-7.1	35.0
1,1-Dichloroethene	Ave	1.190	1.492		2.51	2.00	25.4	35.0
tert-Butyl alcohol	Ave	2.208	2.365		2.14	2.00	7.1	35.0
Acrylonitrile	Ave	0.7008	0.6694		1.91	2.00	-4.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.355		2.44	2.00	22.1	35.0
Methylene Chloride	Ave	1.143	1.379		2.41	2.00	20.7	35.0
3-Chloropropene	Ave	1.349	1.352		2.00	2.00	0.2	35.0
Carbon disulfide	Ave	4.140	4.539		2.19	2.00	9.6	35.0
trans-1,2-Dichloroethene	Ave	1.458	1.563		2.14	2.00	7.2	35.0
2-Methylpentane	Ave	2.634	2.799		2.13	2.00	6.3	80.0
Methyl tert-butyl ether	Ave	3.630	3.738		2.06	2.00	3.0	35.0
1,1-Dichloroethane	Ave	2.467	2.785		2.26	2.00	12.9	35.0
Vinyl acetate	Ave	2.433	2.313		1.90	2.00	-5.0	35.0
2-Butanone (MEK)	Ave	0.6547	0.5476		1.67	2.00	-16.4	35.0
Hexane	Ave	1.064	1.126		2.12	2.00	5.8	35.0
cis-1,2-Dichloroethene	Ave	1.361	1.615		2.37	2.00	18.7	35.0
Ethyl acetate	Ave	2.130	2.131		2.00	2.00	0.0	35.0
Chloroform	Ave	3.427	3.762		2.20	2.00	9.8	35.0
Tetrahydrofuran	Ave	1.026	1.025		2.00	2.00	-0.1	35.0
1,1,1-Trichloroethane	Ave	3.888	4.287		2.21	2.00	10.3	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23
 Instrument ID: ME Calib Start Date: 01/28/2014 14:11
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/28/2014 20:25
 Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.5360		2.19	2.00	9.3	35.0
1-Butanol	Ave	0.0746	0.0811		2.18	2.00	8.8	35.0
Cyclohexane	Ave	0.1509	0.1650		2.19	2.00	9.3	35.0
Benzene	Ave	0.8050	0.8717		2.17	2.00	8.3	35.0
Carbon tetrachloride	Ave	0.7733	0.9133		2.36	2.00	18.1	35.0
2,3-Dimethylpentane	Ave	0.1874	0.2074		2.21	2.00	10.7	80.0
Thiophene	Ave	0.5002	0.5369		2.15	2.00	7.3	80.0
2,2,4-Trimethylpentane	Ave	1.243	1.355		2.18	2.00	9.0	35.0
Heptane	Ave	0.3047	0.3354		2.20	2.00	10.1	35.0
1,2-Dichloropropane	Ave	0.2586	0.2722		2.11	2.00	5.3	35.0
Trichloroethene	Ave	0.3975	0.4482		2.25	2.00	12.7	35.0
Dibromomethane	Ave	0.3799	0.4010		2.11	2.00	5.6	35.0
Bromodichloromethane	Ave	0.7571	0.8377		2.21	2.00	10.6	35.0
1,4-Dioxane	Ave	0.1068	0.1136		2.13	2.00	6.3	35.0
Methyl methacrylate	Ave	0.3033	0.3078		2.03	2.00	1.5	35.0
Methylcyclohexane	Ave	0.5694	0.6224		2.19	2.00	9.3	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.4739		2.00	2.00	-0.0	35.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4931		2.16	2.00	8.1	35.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5577		2.06	2.00	3.2	35.0
Toluene	Ave	1.072	1.122		2.09	2.00	4.7	35.0
1,1,2-Trichloroethane	Ave	0.3155	0.3187		2.02	2.00	1.0	35.0
2-Methylthiophene	Ave	0.9307	0.9802		2.11	2.00	5.3	80.0
3-Methylthiophene	Ave	0.9375	0.995		2.12	2.00	6.2	80.0
2-Hexanone	Ave	0.2529	0.2750		2.17	2.00	8.7	35.0
Octane	Ave	0.3821	0.4287		2.24	2.00	12.2	35.0
Dibromochloromethane	Ave	0.7144	0.7890		2.21	2.00	10.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5824		2.07	2.00	3.4	35.0
Tetrachloroethene	Ave	0.4564	0.4992		2.19	2.00	9.4	35.0
Chlorobenzene	Ave	0.8545	0.8970		2.10	2.00	5.0	35.0
2,3-Dimethylheptane	Ave	0.8208	0.8797		2.14	2.00	7.2	80.0
Ethylbenzene	Ave	1.374	1.445		2.10	2.00	5.2	35.0
2-Ethylthiophene	Ave	1.101	1.143		2.08	2.00	3.8	80.0
m-Xylene & p-Xylene	Ave	1.080	1.138		4.21	4.00	5.4	35.0
Nonane	Ave	0.5994	0.6291		2.10	2.00	5.0	35.0
Bromoform	Ave	0.6422	0.7132		2.22	2.00	11.1	35.0
Styrene	Ave	0.7475	0.8037		2.15	2.00	7.5	35.0
o-Xylene	Ave	1.168	1.188		2.03	2.00	1.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7377		2.15	2.00	7.4	35.0
1,2,3-Trichloropropane	Ave	0.2504	0.2540		2.03	2.00	1.5	35.0
Isopropylbenzene	Ave	1.542	1.574		2.04	2.00	2.0	35.0
Propylbenzene	Ave	0.4031	0.4132		2.05	2.00	2.5	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: ICV 140-758/14 Calibration Date: 01/28/2014 23:23
 Instrument ID: ME Calib Start Date: 01/28/2014 14:11
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/28/2014 20:25
 Lab File ID: ELCSA28.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.3996		2.08	2.00	4.0	35.0
4-Ethyltoluene	Ave	1.477	1.585		2.15	2.00	7.3	35.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7236		2.16	2.00	8.1	35.0
Alpha Methyl Styrene	Ave	0.5526	0.6151		2.23	2.00	11.3	35.0
Decane	Ave	0.6339	0.6461		2.04	2.00	1.9	35.0
tert-Butylbenzene	Ave	1.348	1.414		2.10	2.00	4.8	35.0
1,2,4-Trimethylbenzene	Ave	1.227	1.326		2.16	2.00	8.0	35.0
sec-Butylbenzene	Ave	1.656	1.794		2.17	2.00	8.3	35.0
1,3-Dichlorobenzene	Ave	0.7982	0.8418		2.11	2.00	5.5	35.0
Benzyl chloride	Ave	1.010	1.148		2.27	2.00	13.7	35.0
1,4-Dichlorobenzene	Ave	0.7852	0.8219		2.09	2.00	4.7	35.0
4-Isopropyltoluene	Ave	1.399	1.581		2.26	2.00	13.0	35.0
1,2,3-Trimethylbenzene	Ave	1.042	1.157		2.22	2.00	11.1	80.0
Butylcyclohexane	Ave	0.9625	1.036		2.15	2.00	7.7	80.0
1,2-Dichlorobenzene	Ave	0.7605	0.7910		2.08	2.00	4.0	35.0
Indane	Ave	1.073	1.160		2.16	2.00	8.1	80.0
Indene	Ave	1.019	1.166		2.29	2.00	14.5	80.0
Butylbenzene	Ave	1.239	1.382		2.23	2.00	11.5	35.0
Undecane	Ave	0.5595	0.5931		2.12	2.00	6.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.375		2.29	2.00	14.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.374		2.31	2.00	15.5	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	0.8871		2.28	2.00	14.1	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.141		2.30	2.00	14.9	80.0
Dodecane	Ave	0.4200	0.5404		2.57	2.00	28.7	35.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.5218		2.06	2.00	2.8	35.0
Naphthalene	Ave	0.8890	1.088		2.45	2.00	22.4	35.0
Benzo (b) thiophene	Ave	0.6431	0.7865		2.45	2.00	22.3	80.0
Hexachlorobutadiene	Ave	0.6633	0.6263		1.89	2.00	-5.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4608		2.43	2.00	21.6	35.0
2-Methylnaphthalene	Ave	0.0420	0.0660		19.6	12.5	57.1	80.0
1-Methylnaphthalene	Ave	0.0366	0.0607		20.8	12.5	66.0	80.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.8892		4.06	4.00	1.5	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D
 Lims ID: icv Lab Sample ID: ICV 140-760/14-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 28-Jan-2014 23:23:30 ALS Bottle#: 8 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: icV1.0,1,3,0,,ICV
 Misc. Info.: E012814I,TO155,140-0000390-014
 Operator ID: 7126 Instrument ID: ME
 Sublist:

Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:19:30 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa

Date: 30-Jan-2014 13:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.355	0.001	91	245031	4.00	
* 2 1,4-Difluorobenzene	114	10.588	10.588	0.0	95	1151017	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.395	-0.002	90	1019752	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.039	-0.001	86	906745	4.06	
6 Chlorodifluoromethane	67	3.303	3.305	-0.002	96	72410	2.11	
7 Propene	41	3.314	3.315	-0.001	93	117569	1.91	
8 Dichlorodifluoromethane	85	3.363	3.363	0.0	100	564126	2.08	
9 Chloromethane	52	3.535	3.535	0.0	97	46796	2.16	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.546	3.542	0.004	95	310317	1.90	
11 Acetaldehyde	44	3.686	3.684	0.002	91	195686	9.54	
12 Vinyl chloride	62	3.697	3.697	0.0	99	180981	2.17	
14 Butane	43	3.778	3.778	0.0	82	243515	2.08	
13 Butadiene	54	3.778	3.780	-0.002	72	126071	2.18	
15 Bromomethane	94	4.085	4.084	0.001	97	183598	2.04	
16 Chloroethane	64	4.220	4.217	0.003	95	88820	2.09	
17 Ethanol	31	4.323	4.321	0.002	98	241643	9.86	
18 Vinyl bromide	106	4.506	4.503	0.003	97	183404	2.25	
19 2-Methylbutane	43	4.549	4.545	0.004	88	177093	2.06	
21 Trichlorofluoromethane	101	4.759	4.757	0.002	99	558094	2.05	
20 Acrolein	56	4.776	4.773	0.003	96	38703	1.49	
22 Acetonitrile	40	4.846	4.845	0.001	98	43567	1.87	
23 Acetone	58	4.894	4.892	0.002	87	50407	1.36	
25 Pentane	72	4.975	4.970	0.005	97	32477	2.02	
24 Isopropyl alcohol	45	4.980	4.978	0.002	74	188069	1.97	
26 Ethyl ether	31	5.137	5.138	-0.001	89	115930	1.86	
27 1,1-Dichloroethene	96	5.450	5.450	0.0	96	182837	2.51	
29 2-Methyl-2-propanol	59	5.563	5.565	-0.002	95	289706	2.14	
28 Acrylonitrile	53	5.568	5.569	-0.001	84	82009	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.622	5.622	0.0	95	410988	2.44	
31 Methylene Chloride	84	5.805	5.802	0.003	87	169006	2.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.816	5.814	0.002	86	165694	2.00	
33 Carbon disulfide	76	5.956	5.953	0.003	100	556075	2.19	
34 trans-1,2-Dichloroethene	96	6.604	6.605	-0.001	98	191490	2.14	
35 2-Methylpentane	43	6.614	6.615	-0.001	89	342946	2.13	
36 Methyl tert-butyl ether	73	6.733	6.736	-0.003	93	458014	2.06	
37 1,1-Dichloroethane	63	7.035	7.031	0.004	99	341255	2.26	
38 Vinyl acetate	43	7.143	7.140	0.003	99	283332	1.90	
39 2-Butanone (MEK)	72	7.590	7.593	-0.003	96	67092	1.67	
40 Hexane	56	7.601	7.599	0.002	83	137921	2.12	
41 cis-1,2-Dichloroethene	96	8.022	8.018	0.004	96	197901	2.37	
42 Ethyl acetate	43	8.210	8.212	-0.002	98	261075	2.00	
43 Chloroform	83	8.367	8.364	0.003	97	460934	2.20	
44 Tetrahydrofuran	42	8.766	8.769	-0.003	84	125542	2.00	
45 1,1,1-Trichloroethane	97	9.391	9.394	-0.003	95	525249	2.21	
46 1,2-Dichloroethane	62	9.515	9.514	0.001	98	308455	2.19	
47 n-Butanol	31	9.963	9.973	-0.010	81	46672	2.18	
49 Cyclohexane	69	10.001	10.002	-0.001	91	94960	2.19	
48 Benzene	78	10.012	10.008	0.004	98	501674	2.17	
50 Carbon tetrachloride	117	10.028	10.028	0.0	97	525614	2.36	
51 2,3-Dimethylpentane	71	10.125	10.129	-0.004	87	119355	2.21	
52 Thiophene	84	10.297	10.297	0.0	95	308970	2.15	
53 Isooctane	57	10.799	10.797	0.002	97	779879	2.18	
54 n-Heptane	71	11.192	11.195	-0.003	86	192994	2.20	
55 1,2-Dichloropropane	63	11.284	11.286	-0.002	80	156678	2.11	
56 Trichloroethene	130	11.316	11.319	-0.003	94	257917	2.25	
57 Dibromomethane	93	11.414	11.410	0.004	95	230798	2.11	
58 Dichlorobromomethane	83	11.559	11.558	0.001	99	482088	2.21	
59 1,4-Dioxane	88	11.570	11.582	-0.012	88	65365	2.13	
60 Methyl methacrylate	41	11.662	11.661	0.001	85	177158	2.03	
61 Methylcyclohexane	83	12.098	12.099	-0.001	94	358174	2.19	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.530	0.0	96	272743	2.00	
63 cis-1,3-Dichloropropene	75	12.589	12.588	0.001	95	283799	2.16	
64 trans-1,3-Dichloropropene	75	13.301	13.298	0.003	97	284330	2.06	
65 Toluene	91	13.409	13.411	-0.002	94	572239	2.09	
66 1,1,2-Trichloroethane	83	13.495	13.497	-0.002	98	162484	2.02	
67 2-Methylthiophene	97	13.565	13.567	-0.002	97	499796	2.11	
68 3-Methylthiophene	97	13.770	13.769	0.001	99	507445	2.12	
69 2-Hexanone	58	13.883	13.885	-0.002	95	140228	2.17	
70 n-Octane	85	14.110	14.108	0.002	85	218578	2.24	
71 Chlorodibromomethane	129	14.201	14.199	0.002	96	402267	2.21	
72 Ethylene Dibromide	107	14.493	14.494	-0.001	98	296970	2.07	
73 Tetrachloroethene	129	14.563	14.562	0.001	94	254505	2.19	
74 Chlorobenzene	112	15.442	15.443	-0.001	82	457334	2.10	
75 2,3-Dimethylheptane	43	15.458	15.459	-0.001	85	448530	2.14	
76 Ethylbenzene	91	15.733	15.733	0.0	99	736932	2.10	
77 2-Ethylthiophene	97	15.835	15.836	-0.001	98	582797	2.08	
78 m-Xylene & p-Xylene	91	15.895	15.896	-0.001	98	1160449	4.21	
81 n-Nonane	57	16.310	16.313	-0.003	82	320779	2.10	
79 Bromoform	173	16.342	16.344	-0.002	96	363631	2.22	
80 Styrene	104	16.358	16.361	-0.003	97	409802	2.15	
82 o-Xylene	91	16.418	16.419	-0.001	98	605609	2.03	
83 1,1,2,2-Tetrachloroethane	83	16.747	16.751	-0.004	98	376154	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.908	16.910	-0.002	95	129528	2.03	
85 Isopropylbenzene	105	17.005	17.006	-0.001	98	802319	2.04	
86 N-Propylbenzene	120	17.550	17.555	-0.005	98	210682	2.05	
87 2-Chlorotoluene	126	17.599	17.600	-0.001	96	203726	2.08	
88 4-Ethyltoluene	105	17.706	17.710	-0.004	97	808293	2.15	
89 1,3,5-Trimethylbenzene	120	17.787	17.787	0.0	91	368953	2.16	
90 Alpha Methyl Styrene	118	18.025	18.024	0.001	83	313642	2.23	
91 n-Decane	57	18.079	18.081	-0.003	95	329441	2.04	
92 tert-Butylbenzene	119	18.219	18.219	0.0	85	720728	2.10	
93 1,2,4-Trimethylbenzene	105	18.235	18.235	0.0	95	676210	2.16	
95 sec-Butylbenzene	105	18.494	18.494	0.0	97	914789	2.17	
94 1,3-Dichlorobenzene	146	18.510	18.511	-0.001	98	429223	2.11	
96 Benzyl chloride	91	18.591	18.591	0.0	96	585506	2.27	
97 1,4-Dichlorobenzene	146	18.602	18.602	0.0	91	419049	2.09	
98 4-Isopropyltoluene	119	18.661	18.661	0.0	87	805985	2.26	
99 1,2,3-Trimethylbenzene	105	18.715	18.715	0.0	98	589979	2.22	
100 Butylcyclohexane	83	18.763	18.769	-0.006	94	528410	2.15	
102 2,3-Dihydroindene	117	18.963	18.965	-0.002	89	591592	2.16	
101 1,2-Dichlorobenzene	146	18.963	18.967	-0.004	80	403314	2.08	
103 Indene	116	19.098	19.098	0.0	86	594755	2.29	
104 n-Butylbenzene	91	19.103	19.103	0.0	96	704679	2.23	
106 Undecane	57	19.416	19.416	0.0	90	302382	2.12	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.475	19.479	-0.004	96	701308	2.29	
107 1,2,4,5-Tetramethylbenzene	119	19.863	19.864	-0.001	95	700440	2.31	
108 1,2,3,5-Tetramethylbenzene	119	19.917	19.918	-0.001	93	452322	2.28	
109 1,2,3,4-Tetramethylbenzene	119	20.311	20.311	0.0	95	581598	2.30	
110 Dodecane	57	20.467	20.473	-0.006	92	275537	2.57	
111 1,2,4-Trichlorobenzene	180	20.667	20.667	0.0	94	266060	2.06	
112 Naphthalene	128	20.802	20.803	-0.001	98	554646	2.45	
113 Benzo(b)thiophene	134	20.909	20.909	0.0	98	400997	2.45	
114 Hexachlorobutadiene	225	21.017	21.017	0.0	85	319323	1.89	
115 1,2,3-Trichlorobenzene	180	21.087	21.089	-0.002	94	234930	2.43	
116 2-Methylnaphthalene	142	21.934	21.935	-0.001	99	210178	19.6	
117 1-Methylnaphthalene	142	22.134	22.133	0.001	98	193419	20.8	
A 118 C6 Range	1	7.606	7.542 -	7.671	0	1627889	2.07	
A 119 Toluene Range	1	13.404	13.386 -	13.463	0	1432060	2.08	
A 120 C8 Range	1	14.110	14.067 -	14.153	0	1770221	2.15	
S 124 Xylenes, Total	100				0		6.25	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\ELCSA28.D

Injection Date: 28-Jan-2014 23:23:30

Instrument ID: ME

Operator ID: 7126

Lims ID: icv

Lab Sample ID: ICV 140-760/14-A

Worklist Smp#: 14

Client ID:

Purge Vol: 500.000 mL

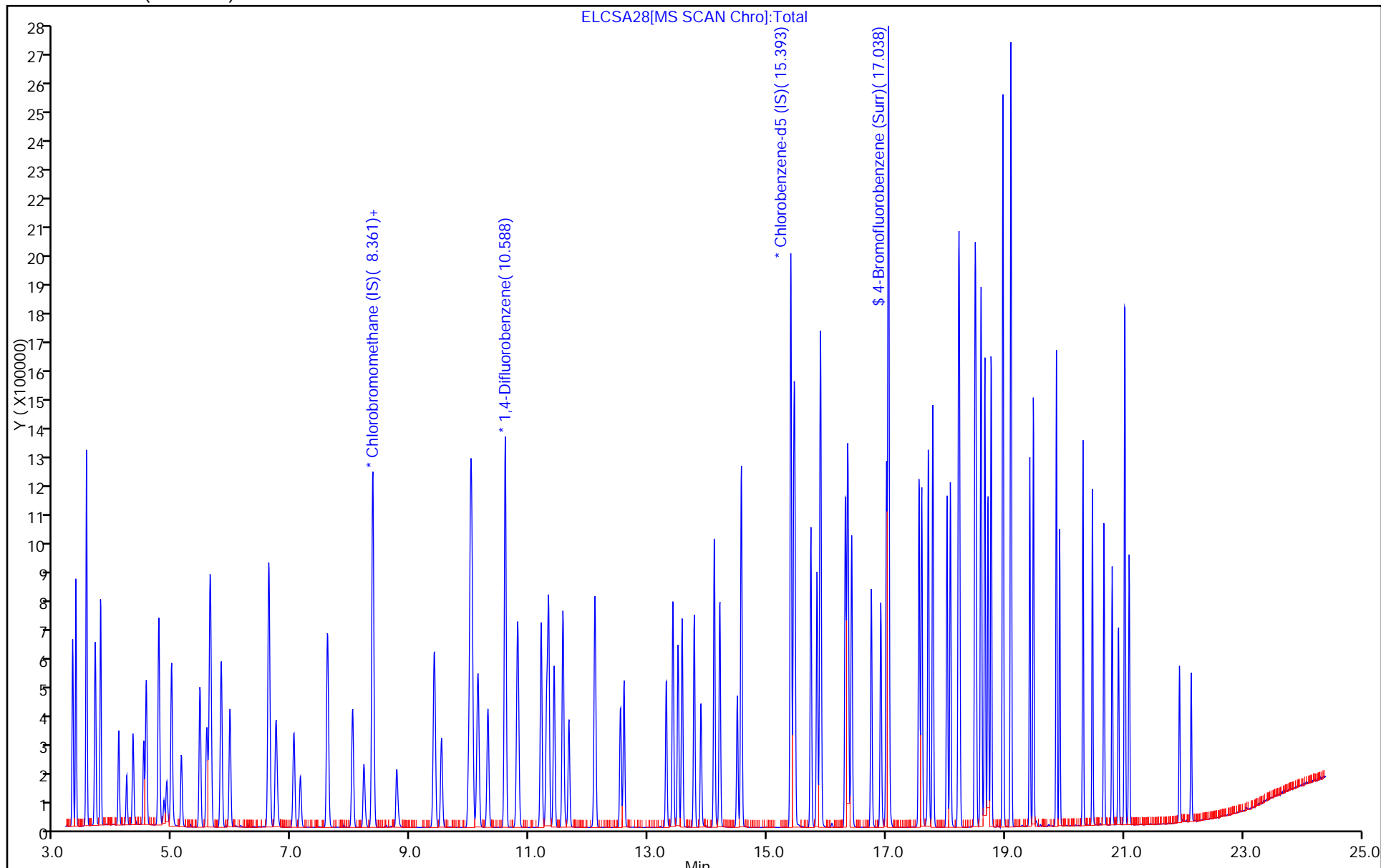
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15
 Instrument ID: ME Calib Start Date: 01/28/2014 14:11
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/28/2014 20:25
 Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.5610	0.6018		2.15	2.00	7.3	30.0
Propene	Ave	1.006	0.6738		1.34	2.00	-33.0*	30.0
Dichlorodifluoromethane	Ave	4.425	4.986		2.25	2.00	12.7	30.0
Chloromethane	Ave	0.3532	0.3150		1.78	2.00	-10.8	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.667	3.450		2.59	2.00	29.4	30.0
Acetaldehyde	Ave	0.3349	0.3105		9.27	10.0	-7.3	50.0
Vinyl chloride	Ave	1.364	1.446		2.12	2.00	6.0	30.0
1,3-Butadiene	Ave	0.9428	0.9102		1.93	2.00	-3.5	30.0
Butane	Ave	1.913	1.741		1.82	2.00	-8.9	30.0
Bromomethane	Ave	1.473	1.715		2.33	2.00	16.5	30.0
Chloroethane	Ave	0.6922	0.7430		2.15	2.00	7.4	30.0
Ethanol	Ave	0.4001	0.3408		8.52	10.0	-14.8	50.0
Vinyl bromide	Ave	1.331	1.746		2.62	2.00	31.2*	30.0
2-Methylbutane	Ave	1.401	1.318		1.88	2.00	-5.9	30.0
Trichlorofluoromethane	Ave	4.438	5.761		2.60	2.00	29.8	30.0
Acrolein	Ave	0.4230	0.4445		2.10	2.00	5.1	30.0
Acetonitrile	Ave	0.3806	0.3860		2.03	2.00	1.4	30.0
Acetone	Ave	0.6059	0.5527		1.82	2.00	-8.8	30.0
Pentane	Ave	0.2626	0.2920		2.22	2.00	11.2	30.0
Isopropyl alcohol	Ave	1.560	1.396		1.79	2.00	-10.5	30.0
Ethyl ether	Ave	1.018	0.8243		1.62	2.00	-19.0	30.0
1,1-Dichloroethene	Ave	1.190	1.204		2.02	2.00	1.2	30.0
tert-Butyl alcohol	Ave	2.208	1.774		1.61	2.00	-19.6	30.0
Acrylonitrile	Ave	0.7008	0.5693		1.62	2.00	-18.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.748	3.011		2.19	2.00	9.6	30.0
Methylene Chloride	Ave	1.143	1.099		1.92	2.00	-3.9	30.0
3-Chloropropene	Ave	1.349	1.019		1.51	2.00	-24.5	30.0
Carbon disulfide	Ave	4.140	3.782		1.83	2.00	-8.6	30.0
trans-1,2-Dichloroethene	Ave	1.458	1.407		1.93	2.00	-3.5	30.0
2-Methylpentane	Ave	2.634	1.630		1.24	2.00	-38.1	50.0
Methyl tert-butyl ether	Ave	3.630	3.618		1.99	2.00	-0.3	30.0
1,1-Dichloroethane	Ave	2.467	2.129		1.73	2.00	-13.7	30.0
Vinyl acetate	Ave	2.433	1.738		1.43	2.00	-28.6	30.0
2-Butanone (MEK)	Ave	0.6547	0.4803		1.47	2.00	-26.6	30.0
Hexane	Ave	1.064	0.7722		1.45	2.00	-27.4	30.0
cis-1,2-Dichloroethene	Ave	1.361	1.238		1.82	2.00	-9.0	30.0
Ethyl acetate	Ave	2.130	1.422		1.34	2.00	-33.2*	30.0
Chloroform	Ave	3.427	3.348		1.95	2.00	-2.3	30.0
Tetrahydrofuran	Ave	1.026	0.6287		1.23	2.00	-38.7*	30.0
1,1,1-Trichloroethane	Ave	3.888	4.097		2.11	2.00	5.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15
 Instrument ID: ME Calib Start Date: 01/28/2014 14:11
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/28/2014 20:25
 Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4903	0.4730		1.93	2.00	-3.5	30.0
1-Butanol	Ave	0.0746	0.0367		0.985	2.00	-50.8*	30.0
Cyclohexane	Ave	0.1509	0.1226		1.62	2.00	-18.8	30.0
Benzene	Ave	0.8050	0.7264		1.80	2.00	-9.8	30.0
Carbon tetrachloride	Ave	0.7733	0.9119		2.36	2.00	17.9	30.0
2,3-Dimethylpentane	Ave	0.1874	0.1531		1.63	2.00	-18.3	50.0
Thiophene	Ave	0.5002	0.4456		1.78	2.00	-10.9	50.0
2,2,4-Trimethylpentane	Ave	1.243	0.8797		1.42	2.00	-29.2	30.0
Heptane	Ave	0.3047	0.2492		1.64	2.00	-18.2	30.0
1,2-Dichloropropane	Ave	0.2586	0.2130		1.65	2.00	-17.6	30.0
Trichloroethene	Ave	0.3975	0.3801		1.91	2.00	-4.4	30.0
Dibromomethane	Ave	0.3799	0.3712		1.95	2.00	-2.3	30.0
Bromodichloromethane	Ave	0.7571	0.7521		1.99	2.00	-0.7	30.0
1,4-Dioxane	Ave	0.1068	0.0798		1.49	2.00	-25.3	30.0
Methyl methacrylate	Ave	0.3033	0.2134		1.41	2.00	-29.6	30.0
Methylcyclohexane	Ave	0.5694	0.4694		1.65	2.00	-17.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4741	0.2728		1.15	2.00	-42.5*	30.0
cis-1,3-Dichloropropene	Ave	0.4564	0.4277		1.87	2.00	-6.3	30.0
trans-1,3-Dichloropropene	Ave	0.5402	0.5023		1.86	2.00	-7.0	30.0
Toluene	Ave	1.072	1.046		1.95	2.00	-2.4	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.2953		1.87	2.00	-6.4	30.0
2-Methylthiophene	Ave	0.9307	0.9342		2.01	2.00	0.4	50.0
3-Methylthiophene	Ave	0.9375	0.9569		2.04	2.00	2.1	50.0
2-Hexanone	Ave	0.2529	0.1779		1.41	2.00	-29.7	30.0
Octane	Ave	0.3821	0.3585		1.88	2.00	-6.2	30.0
Dibromochloromethane	Ave	0.7144	0.8349		2.34	2.00	16.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.5631	0.5798		2.06	2.00	3.0	30.0
Tetrachloroethene	Ave	0.4564	0.4642		2.03	2.00	1.7	30.0
Chlorobenzene	Ave	0.8545	0.9287		2.17	2.00	8.7	30.0
2,3-Dimethylheptane	Ave	0.8208	0.5558		1.35	2.00	-32.3	50.0
Ethylbenzene	Ave	1.374	1.424		2.07	2.00	3.6	30.0
2-Ethylthiophene	Ave	1.101	1.215		2.21	2.00	10.4	50.0
m-Xylene & p-Xylene	Ave	1.080	1.217		4.51	4.00	12.7	30.0
Nonane	Ave	0.5994	0.4769		1.59	2.00	-20.4	30.0
Bromoform	Ave	0.6422	0.8848		2.76	2.00	37.8*	30.0
Styrene	Ave	0.7475	0.8625		2.31	2.00	15.4	30.0
o-Xylene	Ave	1.168	1.254		2.15	2.00	7.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6871	0.7002		2.04	2.00	1.9	30.0
1,2,3-Trichloropropane	Ave	0.2504	0.2871		2.29	2.00	14.7	30.0
Isopropylbenzene	Ave	1.542	1.765		2.29	2.00	14.4	30.0
Propylbenzene	Ave	0.4031	0.4486		2.23	2.00	11.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-990/2 Calibration Date: 03/24/2014 09:15
 Instrument ID: ME Calib Start Date: 01/28/2014 14:11
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/28/2014 20:25
 Lab File ID: ECCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.3842	0.4199		2.19	2.00	9.3	30.0
4-Ethyltoluene	Ave	1.477	1.707		2.31	2.00	15.5	30.0
1,3,5-Trimethylbenzene	Ave	0.6694	0.7792		2.33	2.00	16.4	30.0
Alpha Methyl Styrene	Ave	0.5526	0.6896		2.50	2.00	24.8	30.0
Decane	Ave	0.6339	0.6033		1.90	2.00	-4.8	30.0
tert-Butylbenzene	Ave	1.348	1.585		2.35	2.00	17.6	30.0
1,2,4-Trimethylbenzene	Ave	1.227	1.532		2.50	2.00	24.8	30.0
sec-Butylbenzene	Ave	1.656	1.990		2.40	2.00	20.1	30.0
1,3-Dichlorobenzene	Ave	0.7982	0.997		2.50	2.00	24.9	30.0
Benzyl chloride	Ave	1.010	1.209		2.40	2.00	19.8	30.0
1,4-Dichlorobenzene	Ave	0.7852	0.9690		2.47	2.00	23.4	30.0
4-Isopropyltoluene	Ave	1.399	1.755		2.51	2.00	25.4	30.0
1,2,3-Trimethylbenzene	Ave	1.042	1.275		2.45	2.00	22.4	50.0
Butylcyclohexane	Ave	0.9625	0.9946		2.07	2.00	3.3	50.0
Indane	Ave	1.073	1.285		2.40	2.00	19.8	50.0
1,2-Dichlorobenzene	Ave	0.7605	0.9595		2.52	2.00	26.2	30.0
Indene	Ave	1.019	1.279		2.51	2.00	25.6	50.0
Butylbenzene	Ave	1.239	1.562		2.52	2.00	26.0	30.0
Undecane	Ave	0.5595	0.6150		2.20	2.00	9.9	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.202	1.572		2.62	2.00	30.8	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.189	1.616		2.72	2.00	35.8	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.7775	1.020		2.62	2.00	31.2	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.9931	1.269		2.56	2.00	27.8	50.0
Dodecane	Ave	0.4200	0.3135		1.49	2.00	-25.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5077	0.6318		2.49	2.00	24.4	30.0
Naphthalene	Ave	0.8890	1.095		2.46	2.00	23.2	30.0
Benzo (b) thiophene	Ave	0.6431	0.7023		2.18	2.00	9.2	50.0
Hexachlorobutadiene	Ave	0.6633	0.9739		2.94	2.00	46.8*	30.0
1,2,3-Trichlorobenzene	Ave	0.3790	0.4458		2.35	2.00	17.6	30.0
2-Methylnaphthalene	Ave	0.0420	0.0519		15.5	12.5	23.6	50.0
1-Methylnaphthalene	Ave	0.0366	0.0465		15.9	12.5	27.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8759	0.9104		4.16	4.00	3.9	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 24-Mar-2014 09:15:30 ALS Bottle#: 12 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
 Misc. Info.: E032414,TO155,,140-0000541-002
 Operator ID: 7126 Instrument ID: ME
 Sublist: chrom-ME_TO15*sub2
 Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 13:17:05 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 13:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	75	302319	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1502722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1339330	4.00	s
\$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1219287	4.16	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	90969	2.15	
7 Propene	41	3.314	3.314	0.0	92	101850	1.34	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	753633	2.25	
9 Chloromethane	52	3.530	3.530	0.0	96	47614	1.78	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	91	521464	2.59	
11 Acetaldehyde	44	3.675	3.675	0.0	92	234684	9.27	
12 Vinyl chloride	62	3.691	3.691	0.0	99	218591	2.12	
13 Butadiene	54	3.772	3.772	0.0	73	137578	1.93	
14 Butane	43	3.772	3.772	0.0	81	263231	1.82	
15 Bromomethane	94	4.074	4.074	0.0	98	259228	2.33	
16 Chloroethane	64	4.209	4.209	0.0	96	112316	2.15	
17 Ethanol	31	4.312	4.312	0.0	98	257541	8.52	
18 Vinyl bromide	106	4.495	4.495	0.0	97	263900	2.62	
19 2-Methylbutane	43	4.533	4.533	0.0	85	199172	1.88	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	870813	2.60	
20 Acrolein	56	4.765	4.765	0.0	84	67193	2.10	
22 Acetonitrile	40	4.835	4.835	0.0	97	58354	2.03	
23 Acetone	58	4.878	4.878	0.0	92	83541	1.82	
25 Pentane	72	4.959	4.959	0.0	97	44134	2.22	
24 Isopropyl alcohol	45	4.969	4.969	0.0	75	211079	1.79	
26 Ethyl ether	31	5.126	5.126	0.0	73	124607	1.62	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	181988	2.02	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	268189	1.61	
28 Acrylonitrile	53	5.557	5.557	0.0	84	86059	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.606	5.606	0.0	96	455162	2.19	
31 Methylene Chloride	84	5.789	5.789	0.0	78	166048	1.92	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.800	5.800	0.0	78	154057	1.51	
33 Carbon disulfide	76	5.940	5.940	0.0	100	571759	1.83	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	97	212634	1.93	
35 2-Methylpentane	43	6.598	6.598	0.0	81	246402	1.24	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	93	546944	1.99	
37 1,1-Dichloroethane	63	7.013	7.013	0.0	98	321812	1.73	
38 Vinyl acetate	43	7.126	7.126	0.0	98	262726	1.43	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	84	72607	1.47	
40 Hexane	56	7.579	7.579	0.0	82	116726	1.45	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	187196	1.82	
42 Ethyl acetate	43	8.199	8.199	0.0	96	215021	1.34	
43 Chloroform	83	8.350	8.350	0.0	96	506090	1.95	
44 Tetrahydrofuran	42	8.749	8.749	0.0	68	95038	1.23	
45 1,1,1-Trichloroethane	97	9.375	9.375	0.0	94	619320	2.11	
46 1,2-Dichloroethane	62	9.499	9.499	0.0	98	355370	1.93	
47 n-Butanol	31	9.957	9.957	0.0	70	27582	0.9846	
49 Cyclohexane	69	9.979	9.979	0.0	89	92113	1.62	
48 Benzene	78	9.990	9.990	0.0	96	545808	1.80	
50 Carbon tetrachloride	117	10.011	10.011	0.0	99	685152	2.36	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	82	114996	1.63	
52 Thiophene	84	10.281	10.281	0.0	91	334787	1.78	
53 Isooctane	57	10.782	10.782	0.0	95	660939	1.42	
54 n-Heptane	71	11.176	11.176	0.0	74	187211	1.64	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	160030	1.65	
56 Trichloroethene	130	11.305	11.305	0.0	95	285567	1.91	
57 Dibromomethane	93	11.397	11.397	0.0	95	278928	1.95	
58 Dichlorobromomethane	83	11.543	11.543	0.0	98	565101	1.99	
59 1,4-Dioxane	88	11.564	11.564	0.0	85	59927	1.49	
60 Methyl methacrylate	41	11.645	11.645	0.0	75	160355	1.41	
61 Methylcyclohexane	83	12.082	12.082	0.0	91	352676	1.65	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	89	204969	1.15	
63 cis-1,3-Dichloropropene	75	12.573	12.573	0.0	94	321364	1.87	
64 trans-1,3-Dichloropropene	75	13.284	13.284	0.0	97	336371	1.86	
65 Toluene	91	13.398	13.398	0.0	94	700550	1.95	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	96	197766	1.87	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	625604	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	640783	2.04	
69 2-Hexanone	58	13.872	13.872	0.0	95	119113	1.41	
70 n-Octane	85	14.093	14.093	0.0	70	240103	1.88	
71 Chlorodibromomethane	129	14.185	14.185	0.0	96	559077	2.34	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	388293	2.06	
73 Tetrachloroethene	129	14.552	14.552	0.0	94	310849	2.03	
74 Chlorobenzene	112	15.431	15.431	0.0	91	621948	2.17	
75 2,3-Dimethylheptane	43	15.447	15.447	0.0	71	372175	1.35	
76 Ethylbenzene	91	15.722	15.722	0.0	99	953386	2.07	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	813626	2.21	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	100	1630522	4.51	
81 n-Nonane	57	16.299	16.299	0.0	72	319358	1.59	
79 Bromoform	173	16.331	16.331	0.0	97	592493	2.76	
80 Styrene	104	16.347	16.347	0.0	94	577584	2.31	
82 o-Xylene	91	16.407	16.407	0.0	98	839584	2.15	
83 1,1,2,2-Tetrachloroethane	83	16.736	16.736	0.0	97	468904	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	16.897	16.897	0.0	95	192261	2.29	
85 Isopropylbenzene	105	16.994	16.994	0.0	97	1181939	2.29	
86 N-Propylbenzene	120	17.539	17.539	0.0	99	300416	2.23	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	281174	2.19	
88 4-Ethyltoluene	105	17.695	17.695	0.0	98	1143170	2.31	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	521825	2.33	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	461818	2.50	
91 n-Decane	57	18.068	18.068	0.0	96	404026	1.90	
92 tert-Butylbenzene	119	18.208	18.208	0.0	87	1061376	2.35	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	95	1025693	2.50	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1332413	2.40	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	667809	2.50	
96 Benzyl chloride	91	18.580	18.580	0.0	97	809790	2.40	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	92	648918	2.47	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	87	1175002	2.51	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	853540	2.45	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	666021	2.07	
102 2,3-Dihydroindene	117	18.952	18.952	0.0	90	860555	2.40	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	642521	2.52	
103 Indene	116	19.087	19.087	0.0	85	856781	2.51	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	1045696	2.52	
106 Undecane	57	19.405	19.405	0.0	84	411842	2.20	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	1052701	2.62	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	1081855	2.72	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	94	682865	2.62	
109 1,2,3,4-Tetramethylbenzene	119	20.300	20.300	0.0	95	849605	2.56	
110 Dodecane	57	20.462	20.462	0.0	88	209927	1.49	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	92	423061	2.49	
112 Naphthalene	128	20.791	20.791	0.0	98	733606	2.46	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	470293	2.18	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	86	652193	2.94	
115 1,2,3-Trichlorobenzene	180	21.076	21.076	0.0	93	298500	2.35	
116 2-Methylnaphthalene	142	21.923	21.923	0.0	99	217255	15.5	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	194437	15.9	
A 118 C6 Range	1	7.590	7.531 - 7.649		0	1414468	1.38	
A 119 Toluene Range	1	13.395	13.344 - 13.452		0	1719075	1.92	
A 120 C8 Range	1	14.099	14.056 - 14.142		0	1764167	1.64	
S 124 Xylenes, Total	100				0		6.66	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24.D

Injection Date: 24-Mar-2014 09:15:30

Instrument ID: ME

Operator ID: 7126

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

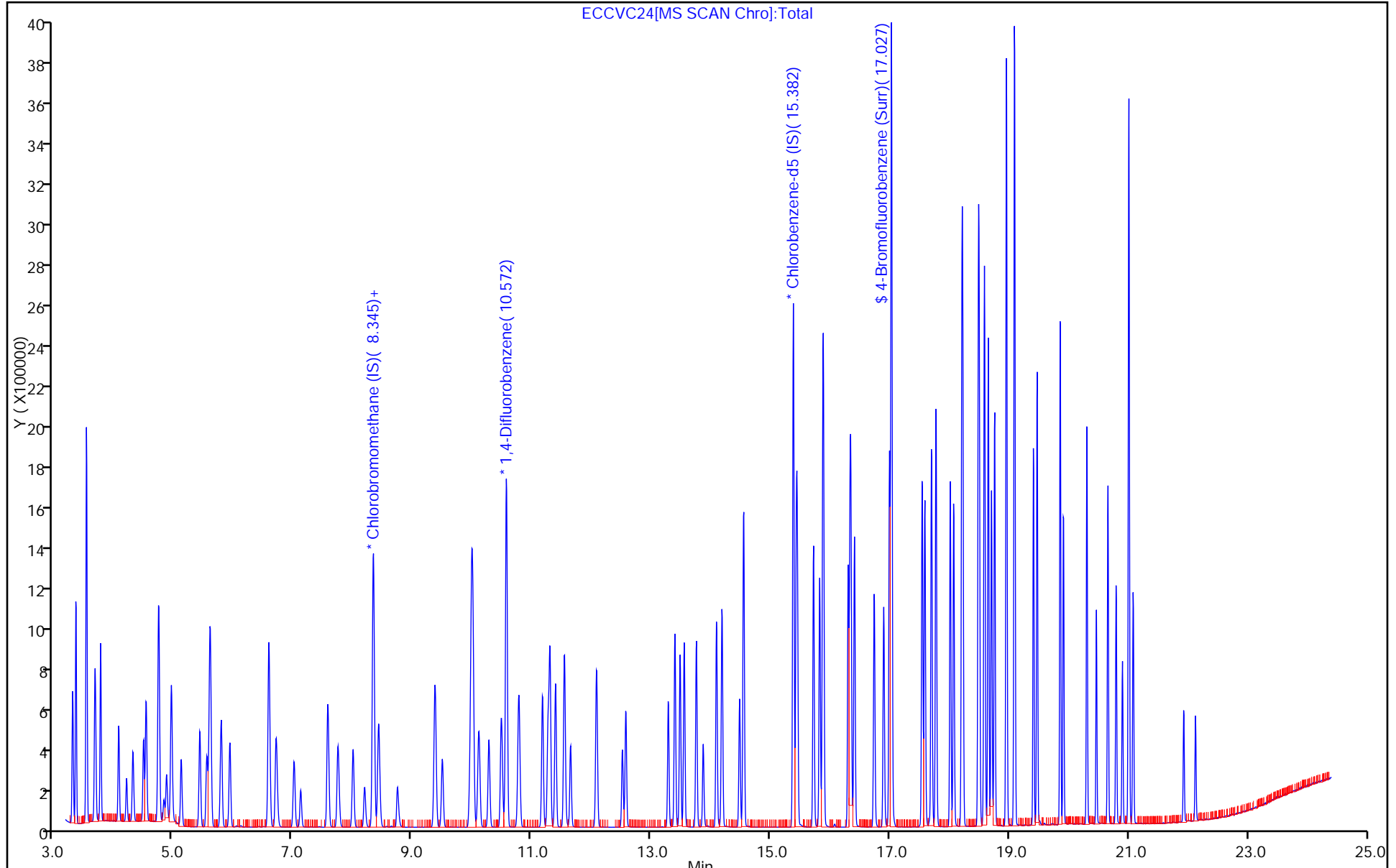
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.3927		1.90	2.00	-4.9	35.0
Propene	Ave	1.227	1.098		1.79	2.00	-10.4	35.0
Dichlorodifluoromethane	Ave	3.962	3.635		1.83	2.00	-8.3	35.0
Chloromethane	Ave	0.4501	0.4065		1.81	2.00	-9.7	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.017		2.02	2.00	0.9	35.0
Acetaldehyde	Ave	0.3947	0.3532		8.95	10.0	-10.5	80.0
Vinyl chloride	Ave	1.483	1.396		1.88	2.00	-5.9	35.0
1,3-Butadiene	Ave	1.030	1.004		1.95	2.00	-2.6	35.0
Butane	Ave	2.110	1.870		1.77	2.00	-11.4	35.0
Bromomethane	Ave	1.508	1.386		1.84	2.00	-8.1	35.0
Chloroethane	Ave	0.6822	0.6020		1.76	2.00	-11.8	35.0
Ethanol	Ave	0.3211	0.2779		8.65	10.0	-13.5	80.0
Vinyl bromide	Ave	1.283	1.299		2.03	2.00	1.3	35.0
2-Methylbutane	Ave	1.699	1.599		1.88	2.00	-5.9	35.0
Acrolein	Ave	0.3266	0.2252		1.38	2.00	-31.0	35.0
Trichlorofluoromethane	Ave	3.481	3.332		1.91	2.00	-4.3	35.0
Acetonitrile	Ave	0.3607	0.3021		1.68	2.00	-16.2	35.0
Acetone	Ave	0.5686	0.4096		1.44	2.00	-28.0	35.0
Isopropyl alcohol	Ave	1.501	1.466		1.95	2.00	-2.4	35.0
Pentane	Ave	0.2152	0.2069		1.92	2.00	-3.9	35.0
Ethyl ether	Ave	1.047	0.8811		1.68	2.00	-15.8	35.0
1,1-Dichloroethene	Ave	1.123	1.253		2.23	2.00	11.6	35.0
tert-Butyl alcohol	Ave	1.849	1.758		1.90	2.00	-5.0	35.0
Acrylonitrile	Ave	0.5945	0.5425		1.83	2.00	-8.7	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.678		2.22	2.00	11.1	35.0
Methylene Chloride	Ave	1.070	1.161		2.17	2.00	8.5	35.0
3-Chloropropene	Ave	1.113	1.032		1.86	2.00	-7.2	35.0
Carbon disulfide	Ave	3.763	3.823		2.03	2.00	1.6	35.0
trans-1,2-Dichloroethene	Ave	1.353	1.283		1.90	2.00	-5.1	35.0
2-Methylpentane	Ave	3.087	2.996		1.94	2.00	-2.9	80.0
Methyl tert-butyl ether	Ave	2.042	1.840		1.80	2.00	-9.9	35.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	35.0
Vinyl acetate	Ave	1.849	1.657		1.79	2.00	-10.4	35.0
2-Butanone (MEK)	Ave	0.3786	0.3381		1.79	2.00	-10.7	35.0
Hexane	Ave	1.075	0.9854		1.83	2.00	-8.4	35.0
cis-1,2-Dichloroethene	Ave	1.155	1.171		2.03	2.00	1.4	35.0
Ethyl acetate	Ave	1.649	1.508		1.83	2.00	-8.6	35.0
Chloroform	Ave	2.331	2.280		1.96	2.00	-2.2	35.0
Tetrahydrofuran	Ave	0.9265	0.8140		1.76	2.00	-12.1	35.0
1,1,1-Trichloroethane	Ave	2.429	2.357		1.94	2.00	-3.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3053		1.97	2.00	-1.6	35.0
1-Butanol	Ave	0.0874	0.0831		1.90	2.00	-5.0	35.0
Benzene	Ave	0.6863	0.6700		1.95	2.00	-2.4	35.0
Cyclohexane	Ave	0.1354	0.1273		1.88	2.00	-6.0	35.0
Carbon tetrachloride	Ave	0.5669	0.5577		1.97	2.00	-1.6	35.0
2,3-Dimethylpentane	Ave	0.1619	0.1476		1.82	2.00	-8.9	80.0
Thiophene	Ave	0.4238	0.3980		1.88	2.00	-6.1	80.0
2,2,4-Trimethylpentane	Ave	1.172	1.096		1.87	2.00	-6.5	35.0
Heptane	Ave	0.2427	0.2273		1.87	2.00	-6.4	35.0
1,2-Dichloropropane	Ave	0.2320	0.2086		1.80	2.00	-10.1	35.0
Trichloroethene	Ave	0.3329	0.3084		1.85	2.00	-7.4	35.0
Dibromomethane	Ave	0.3053	0.2742		1.80	2.00	-10.2	35.0
Bromodichloromethane	Ave	0.4844	0.4604		1.90	2.00	-5.0	35.0
1,4-Dioxane	Ave	0.0831	0.0721		1.73	2.00	-13.3	35.0
Methyl methacrylate	Ave	0.2081	0.1844		1.77	2.00	-11.4	35.0
Methylcyclohexane	Ave	0.4620	0.4153		1.80	2.00	-10.1	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3620		1.73	2.00	-13.7	35.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2994		1.82	2.00	-9.0	35.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2916		1.76	2.00	-12.0	35.0
Toluene	Ave	0.7420	0.6560		1.77	2.00	-11.6	35.0
1,1,2-Trichloroethane	Ave	0.2352	0.2032		1.73	2.00	-13.6	35.0
2-Methylthiophene	Ave	0.6668	0.5885		1.76	2.00	-11.8	80.0
3-Methylthiophene	Ave	0.6690	0.5758		1.72	2.00	-13.9	80.0
2-Hexanone	Ave	0.2430	0.2176		1.79	2.00	-10.5	35.0
Octane	Ave	0.2723	0.2524		1.85	2.00	-7.3	35.0
Dibromochloromethane	Ave	0.5191	0.4880		1.88	2.00	-6.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3491		1.73	2.00	-13.4	35.0
Tetrachloroethene	Ave	0.3457	0.3028		1.75	2.00	-12.4	35.0
Chlorobenzene	Ave	0.6339	0.5280		1.67	2.00	-16.7	35.0
2,3-Dimethylheptane	Ave	0.8171	0.8009		1.96	2.00	-2.0	80.0
Ethylbenzene	Ave	0.8196	0.7195		1.76	2.00	-12.2	35.0
2-Ethylthiophene	Ave	0.6423	0.5532		1.72	2.00	-13.9	80.0
m-Xylene & p-Xylene	Ave	0.6614	0.5572		3.37	4.00	-15.7	35.0
Nonane	Ave	0.5146	0.4621		1.80	2.00	-10.2	35.0
Bromoform	Ave	0.4101	0.3532		1.72	2.00	-13.9	35.0
Styrene	Ave	0.4542	0.4097		1.80	2.00	-9.8	35.0
o-Xylene	Ave	0.6705	0.5779		1.72	2.00	-13.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4775		1.74	2.00	-12.8	35.0
1,2,3-Trichloropropane	Ave	0.1314	0.1129		1.72	2.00	-14.1	35.0
Isopropylbenzene	Ave	0.9553	0.8094		1.69	2.00	-15.3	35.0
Propylbenzene	Ave	0.2519	0.2135		1.70	2.00	-15.2	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2127		1.62	2.00	-19.1	35.0
4-Ethyltoluene	Ave	0.8909	0.7838		1.76	2.00	-12.0	35.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3817		1.70	2.00	-14.8	35.0
Alpha Methyl Styrene	Ave	0.3209	0.2911		1.81	2.00	-9.3	35.0
Decane	Ave	0.5485	0.4798		1.75	2.00	-12.5	35.0
tert-Butylbenzene	Ave	0.8748	0.7380		1.69	2.00	-15.6	35.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6716		1.73	2.00	-13.6	35.0
sec-Butylbenzene	Ave	1.140	0.9809		1.72	2.00	-14.0	35.0
1,3-Dichlorobenzene	Ave	0.5106	0.3857		1.51	2.00	-24.5	35.0
Benzyl chloride	Ave	0.5802	0.4785		1.65	2.00	-17.5	35.0
1,4-Dichlorobenzene	Ave	0.4752	0.3601		1.52	2.00	-24.2	35.0
4-Isopropyltoluene	Ave	0.9141	0.7905		1.73	2.00	-13.5	35.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5684		1.80	2.00	-10.2	80.0
Butylcyclohexane	Ave	0.7225	0.6145		1.70	2.00	-14.9	80.0
Indane	Ave	0.7098	0.6057		1.71	2.00	-14.7	80.0
1,2-Dichlorobenzene	Ave	0.4994	0.3813		1.53	2.00	-23.6	35.0
Butylbenzene	Ave	0.8482	0.6995		1.65	2.00	-17.5	35.0
Indene	Ave	0.6202	0.5555		1.79	2.00	-10.4	80.0
Undecane	Ave	0.5525	0.4806		1.74	2.00	-13.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7156		1.67	2.00	-16.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7687		1.79	2.00	-10.7	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4782		1.70	2.00	-14.9	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.6065		1.74	2.00	-12.9	80.0
Dodecane	Ave	0.5721	0.5050		1.77	2.00	-11.7	35.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1874		1.69	2.00	-15.7	35.0
Naphthalene	Ave	0.6294	0.5313		1.69	2.00	-15.6	35.0
Benzo (b) thiophene	Ave	0.4265	0.3579		1.68	2.00	-16.1	80.0
Hexachlorobutadiene	Ave	0.4540	0.3272		1.44	2.00	-27.9	35.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2381		1.66	2.00	-17.1	35.0
2-Methylnaphthalene	Ave	0.0669	0.0445		8.32	12.5	-33.5	80.0
1-Methylnaphthalene	Ave	0.0690	0.0474		8.59	12.5	-31.3	80.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7141		4.04	4.00	0.9	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D
 Lims ID: ICV Lab Sample ID: ICV 140-949/14-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Mar-2014 23:33:30 ALS Bottle#: 1 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: LCS/ICV,,3,,
 Misc. Info.: J031114I,TO15,,140-0000516-014
 Operator ID: 7126 Instrument ID: MJ
 Sublist:

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 12-Mar-2014 06:59:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	326764	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	93	1541489	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1315171	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	89	939102	4.04	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	64162	1.90	
7 Propene	41	3.968	3.973	-0.005	99	179454	1.79	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	593826	1.83	
9 Chloromethane	52	4.226	4.230	-0.004	98	66411	1.81	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	492863	2.02	
11 Acetaldehyde	44	4.393	4.398	-0.005	98	288501	8.95	
12 Vinyl chloride	62	4.414	4.419	-0.005	99	228060	1.88	
14 Butadiene	54	4.511	4.517	-0.006	92	164047	1.95	
13 Butane	43	4.517	4.517	0.0	89	305448	1.77	
15 Bromomethane	94	4.866	4.871	-0.005	99	226405	1.84	
16 Chloroethane	64	5.022	5.027	-0.005	99	98352	1.76	
17 Ethanol	31	5.114	5.122	-0.008	94	227027	8.65	
18 Vinyl bromide	106	5.350	5.357	-0.007	97	212311	2.03	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	261226	1.88	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	98	544405	1.91	
21 Acrolein	56	5.641	5.650	-0.009	27	36793	1.38	
22 Acetonitrile	40	5.711	5.720	-0.009	100	49356	1.68	
23 Acetone	58	5.770	5.776	-0.006	84	66917	1.44	
24 Isopropyl alcohol	45	5.845	5.858	-0.013	97	239534	1.95	
25 Pentane	72	5.883	5.884	-0.001	97	33800	1.92	
26 Ethyl ether	31	6.050	6.059	-0.009	93	143950	1.68	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	97	204737	2.23	
28 2-Methyl-2-propanol	59	6.469	6.487	-0.018	94	287155	1.90	
29 Acrylonitrile	53	6.491	6.498	-0.007	94	88630	1.83	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	94	437601	2.22	
31 Methylene Chloride	84	6.760	6.759	0.001	95	189676	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	91	168678	1.86	
33 Carbon disulfide	76	6.937	6.942	-0.005	99	624567	2.03	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	98	209642	1.90	
35 2-Methylpentane	43	7.631	7.631	0.0	95	489470	1.94	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	300567	1.80	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	343423	1.99	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	270800	1.79	
39 2-Butanone (MEK)	72	8.600	8.601	-0.001	100	55244	1.79	
40 Hexane	56	8.643	8.642	0.001	90	160988	1.83	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	95	191302	2.03	
42 Ethyl acetate	43	9.224	9.229	-0.005	97	246331	1.83	
43 Chloroform	83	9.401	9.403	-0.002	88	372507	1.96	
44 Tetrahydrofuran	42	9.810	9.816	-0.006	94	132989	1.76	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	385014	1.94	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	95	235329	1.97	
47 n-Butanol	31	10.945	10.958	-0.013	87	64008	1.90	
48 Benzene	78	11.031	11.033	-0.002	97	516383	1.95	
49 Cyclohexane	69	11.042	11.040	0.002	92	98107	1.88	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	97	429830	1.97	
51 2,3-Dimethylpentane	71	11.144	11.148	-0.004	92	113738	1.82	
52 Thiophene	84	11.300	11.297	0.003	96	306757	1.88	
53 Isooctane	57	11.768	11.771	-0.003	98	844794	1.87	
54 n-Heptane	71	12.129	12.130	-0.001	93	175150	1.87	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	88	160801	1.80	
56 Trichloroethene	130	12.252	12.252	0.0	95	237727	1.85	
57 Dibromomethane	93	12.333	12.332	0.001	91	211308	1.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	354860	1.90	
58 1,4-Dioxane	88	12.478	12.483	-0.005	87	55564	1.73	
60 Methyl methacrylate	41	12.543	12.548	-0.005	91	142117	1.77	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	320093	1.80	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	278989	1.73	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	95	230781	1.82	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	99	191744	1.76	
65 Toluene	91	14.264	14.262	0.002	93	431398	1.77	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	133590	1.73	
67 2-Methylthiophene	97	14.415	14.413	0.002	98	386959	1.76	
68 3-Methylthiophene	97	14.608	14.612	-0.004	99	378623	1.72	
69 2-Hexanone	58	14.689	14.694	-0.005	93	143062	1.79	
70 n-Octane	85	14.926	14.928	-0.002	95	165974	1.85	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	320894	1.88	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	229585	1.73	
73 Tetrachloroethene	129	15.394	15.393	0.001	92	199104	1.75	
75 Chlorobenzene	112	16.255	16.256	-0.001	84	347218	1.67	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	95	526675	1.96	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	473153	1.76	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	97	363744	1.72	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	100	732866	3.37	
79 n-Nonane	57	17.099	17.098	0.001	93	303879	1.80	
81 Bromoform	173	17.148	17.149	-0.001	93	232231	1.72	
80 Styrene	104	17.158	17.157	0.001	98	269410	1.80	
82 o-Xylene	91	17.218	17.220	-0.002	99	380024	1.72	
83 1,1,2,2-Tetrachloroethane	83	17.530	17.534	-0.004	99	313972	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	74208	1.72	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	532274	1.69	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	140408	1.70	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	139891	1.62	
88 4-Ethyltoluene	105	18.455	18.454	0.001	98	515426	1.76	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	92	251020	1.70	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	85	191429	1.81	
91 n-Decane	57	18.788	18.793	-0.005	89	315493	1.75	
92 tert-Butylbenzene	119	18.934	18.937	-0.003	87	485314	1.69	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	92	441617	1.73	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	645034	1.72	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	253635	1.51	
96 Benzyl chloride	91	19.283	19.288	-0.005	98	314626	1.65	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	93	236806	1.52	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	519786	1.73	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	373764	1.80	
100 Butylcyclohexane	83	19.461	19.460	0.001	93	404088	1.70	
101 2,3-Dihydroindene	117	19.649	19.653	-0.004	89	398305	1.71	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	79	250746	1.53	
103 n-Butylbenzene	91	19.773	19.777	-0.004	96	459993	1.65	
104 Indene	116	19.778	19.781	-0.003	86	365312	1.79	
105 Undecane	57	20.069	20.068	0.001	96	316015	1.74	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	97	470558	1.67	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	505503	1.79	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	314467	1.70	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	96	398813	1.74	
110 Dodecane	57	21.145	21.148	-0.003	94	332106	1.77	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	123214	1.69	
112 Naphthalene	128	21.526	21.527	-0.001	99	349347	1.69	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	235321	1.68	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	215146	1.44	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	156570	1.66	
116 2-Methylnaphthalene	142	22.446	22.449	-0.003	97	183079	8.32	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	194988	8.59	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	419583	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	370351	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	93	349396	NR	
A 118 C6 Range	1	8.633	8.553 -	8.736	0	1771274	1.86	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	1044079	1.76	
A 123 C8 Range	1	14.927	14.880 -	14.977	0	1637147	1.78	
S 124 Xylenes, Total	100				0		5.09	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCS11.D

Injection Date: 11-Mar-2014 23:33:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICV

Lab Sample ID: ICV 140-949/14-A

Worklist Smp#: 14

Client ID:

Purge Vol: 500.000 mL

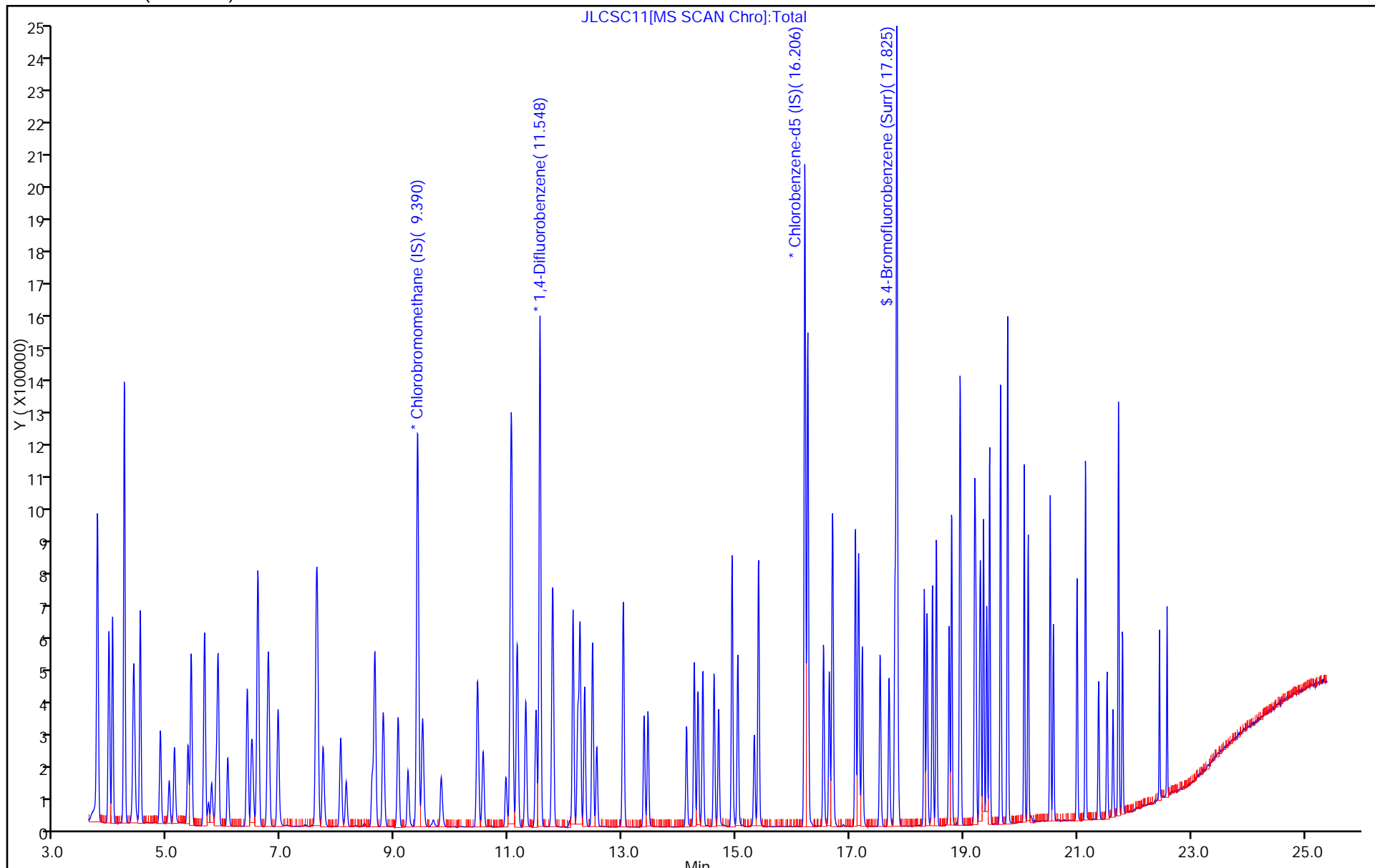
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4096		1.99	2.00	-0.8	30.0
Propene	Ave	1.227	1.166		1.90	2.00	-5.0	30.0
Dichlorodifluoromethane	Ave	3.962	4.068		2.05	2.00	2.7	30.0
Chloromethane	Ave	0.4501	0.4425		1.97	2.00	-1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.180		2.13	2.00	6.4	30.0
Acetaldehyde	Ave	0.3947	0.3107		7.88	10.0	-21.3	50.0
Vinyl chloride	Ave	1.483	1.475		1.99	2.00	-0.5	30.0
1,3-Butadiene	Ave	1.030	1.055		2.05	2.00	2.3	30.0
Butane	Ave	2.110	2.032		1.93	2.00	-3.7	30.0
Bromomethane	Ave	1.508	1.445		1.92	2.00	-4.2	30.0
Chloroethane	Ave	0.6822	0.6592		1.93	2.00	-3.4	30.0
Ethanol	Ave	0.3211	0.3171		9.88	10.0	-1.3	50.0
Vinyl bromide	Ave	1.283	1.347		2.10	2.00	5.0	30.0
2-Methylbutane	Ave	1.699	1.623		1.91	2.00	-4.4	30.0
Acrolein	Ave	0.3266	0.2486		1.52	2.00	-23.9	30.0
Trichlorofluoromethane	Ave	3.481	3.524		2.03	2.00	1.2	30.0
Acetonitrile	Ave	0.3607	0.3322		1.84	2.00	-7.9	30.0
Acetone	Ave	0.5686	0.3576		1.26	2.00	-37.1*	30.0
Isopropyl alcohol	Ave	1.501	1.417		1.89	2.00	-5.6	30.0
Pentane	Ave	0.2152	0.2125		1.98	2.00	-1.3	30.0
Ethyl ether	Ave	1.047	0.9689		1.85	2.00	-7.4	30.0
1,1-Dichloroethene	Ave	1.123	1.284		2.29	2.00	14.3	30.0
tert-Butyl alcohol	Ave	1.849	1.568		1.70	2.00	-15.2	30.0
Acrylonitrile	Ave	0.5945	0.5642		1.90	2.00	-5.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.701		2.24	2.00	12.0	30.0
Methylene Chloride	Ave	1.070	1.131		2.12	2.00	5.7	30.0
3-Chloropropene	Ave	1.113	0.9759		1.75	2.00	-12.3	30.0
Carbon disulfide	Ave	3.763	3.773		2.01	2.00	0.3	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.270		1.88	2.00	-6.1	30.0
2-Methylpentane	Ave	3.087	2.877		1.86	2.00	-6.8	50.0
Methyl tert-butyl ether	Ave	2.042	2.128		2.09	2.00	4.3	30.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	30.0
Vinyl acetate	Ave	1.849	1.805		1.95	2.00	-2.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.3716		1.96	2.00	-1.9	30.0
Hexane	Ave	1.075	0.9554		1.78	2.00	-11.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.199		2.08	2.00	3.9	30.0
Ethyl acetate	Ave	1.649	1.701		2.06	2.00	3.2	30.0
Chloroform	Ave	2.331	2.352		2.02	2.00	0.9	30.0
Tetrahydrofuran	Ave	0.9265	0.9302		2.01	2.00	0.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.419		1.99	2.00	-0.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3373		2.18	2.00	8.7	30.0
1-Butanol	Ave	0.0874	0.0801		1.83	2.00	-8.4	30.0
Benzene	Ave	0.6863	0.7145		2.08	2.00	4.1	30.0
Cyclohexane	Ave	0.1354	0.1398		2.07	2.00	3.2	30.0
Carbon tetrachloride	Ave	0.5669	0.6030		2.13	2.00	6.4	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1639		2.03	2.00	1.2	50.0
Thiophene	Ave	0.4238	0.4505		2.13	2.00	6.3	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.219		2.08	2.00	4.0	30.0
Heptane	Ave	0.2427	0.2556		2.11	2.00	5.3	30.0
1,2-Dichloropropane	Ave	0.2320	0.2309		1.99	2.00	-0.5	30.0
Trichloroethene	Ave	0.3329	0.3567		2.14	2.00	7.1	30.0
Dibromomethane	Ave	0.3053	0.3130		2.05	2.00	2.5	30.0
Bromodichloromethane	Ave	0.4844	0.5274		2.18	2.00	8.9	30.0
1,4-Dioxane	Ave	0.0831	0.0820		1.97	2.00	-1.4	30.0
Methyl methacrylate	Ave	0.2081	0.2272		2.18	2.00	9.2	30.0
Methylcyclohexane	Ave	0.4620	0.4706		2.04	2.00	1.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.4224		2.02	2.00	0.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3260		1.98	2.00	-0.9	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3518		2.12	2.00	6.1	30.0
Toluene	Ave	0.7420	0.8026		2.16	2.00	8.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2444		2.08	2.00	3.9	30.0
2-Methylthiophene	Ave	0.6668	0.6902		2.07	2.00	3.5	50.0
3-Methylthiophene	Ave	0.6690	0.7078		2.12	2.00	5.8	50.0
2-Hexanone	Ave	0.2430	0.2555		2.10	2.00	5.1	30.0
Octane	Ave	0.2723	0.3022		2.22	2.00	11.0	30.0
Dibromochloromethane	Ave	0.5191	0.5710		2.20	2.00	10.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4195		2.08	2.00	4.1	30.0
Tetrachloroethene	Ave	0.3457	0.3752		2.17	2.00	8.5	30.0
Chlorobenzene	Ave	0.6339	0.6444		2.03	2.00	1.7	30.0
2,3-Dimethylheptane	Ave	0.8171	0.9112		2.23	2.00	11.5	50.0
Ethylbenzene	Ave	0.8196	0.9078		2.22	2.00	10.8	30.0
2-Ethylthiophene	Ave	0.6423	0.6947		2.16	2.00	8.1	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.7072		4.28	4.00	6.9	30.0
Nonane	Ave	0.5146	0.5263		2.05	2.00	2.3	30.0
Bromoform	Ave	0.4101	0.4236		2.07	2.00	3.3	30.0
Styrene	Ave	0.4542	0.5203		2.29	2.00	14.5	30.0
o-Xylene	Ave	0.6705	0.7349		2.19	2.00	9.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.6044		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1460		2.22	2.00	11.2	30.0
Isopropylbenzene	Ave	0.9553	1.027		2.15	2.00	7.5	30.0
Propylbenzene	Ave	0.2519	0.2776		2.20	2.00	10.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2723		2.07	2.00	3.6	30.0
4-Ethyltoluene	Ave	0.8909	1.000		2.25	2.00	12.2	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.4917		2.20	2.00	9.8	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3674		2.29	2.00	14.5	30.0
Decane	Ave	0.5485	0.5689		2.08	2.00	3.7	30.0
tert-Butylbenzene	Ave	0.8748	0.9355		2.14	2.00	6.9	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.8556		2.20	2.00	10.1	30.0
sec-Butylbenzene	Ave	1.140	1.248		2.19	2.00	9.5	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.4974		1.95	2.00	-2.6	30.0
Benzyl chloride	Ave	0.5802	0.6061		2.09	2.00	4.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4594		1.93	2.00	-3.3	30.0
4-Isopropyltoluene	Ave	0.9141	0.997		2.18	2.00	9.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.7128		2.25	2.00	12.6	50.0
Butylcyclohexane	Ave	0.7225	0.7375		2.04	2.00	2.1	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.4908		1.97	2.00	-1.7	30.0
Indane	Ave	0.7098	0.7806		2.20	2.00	10.0	50.0
Butylbenzene	Ave	0.8482	0.8771		2.07	2.00	3.4	30.0
Indene	Ave	0.6202	0.7073		2.28	2.00	14.0	50.0
Undecane	Ave	0.5525	0.5700		2.06	2.00	3.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.8829		2.06	2.00	3.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.9328		2.17	2.00	8.3	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.5726		2.04	2.00	1.9	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7364		2.12	2.00	5.8	50.0
Dodecane	Ave	0.5721	0.5612		1.96	2.00	-1.9	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2136		1.92	2.00	-3.9	30.0
Naphthalene	Ave	0.6294	0.6073		1.93	2.00	-3.5	30.0
Benzo (b) thiophene	Ave	0.4265	0.3982		1.87	2.00	-6.6	50.0
Hexachlorobutadiene	Ave	0.4540	0.3874		1.71	2.00	-14.7	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2689		1.87	2.00	-6.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0422		7.89	12.5	-36.9	50.0
1-Methylnaphthalene	Ave	0.0690	0.0448		8.12	12.5	-35.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7019		3.97	4.00	-0.8	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 18-Mar-2014 10:16:30 ALS Bottle#: 8 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031814,TO15,,140-0000527-002
 Operator ID: 403648 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 13:34:00 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 13:34:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.388	0.0	91	363327	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	92	1539618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1280996	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	89	899094	3.97	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	74454	1.99	
7 Propene	41	3.971	3.971	0.0	99	211889	1.90	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	100	739325	2.05	
9 Chloromethane	52	4.229	4.229	0.0	98	80436	1.97	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.234	0.0	91	578020	2.13	
11 Acetaldehyde	44	4.396	4.396	0.0	99	282339	7.88	
12 Vinyl chloride	62	4.417	4.417	0.0	99	268105	1.99	
14 Butadiene	54	4.514	4.514	0.0	67	191679	2.05	
13 Butane	43	4.514	4.514	0.0	85	369310	1.93	
15 Bromomethane	94	4.869	4.869	0.0	99	262661	1.92	
16 Chloroethane	64	5.025	5.025	0.0	99	119824	1.93	
17 Ethanol	31	5.116	5.116	0.0	95	288164	9.88	
18 Vinyl bromide	106	5.353	5.353	0.0	97	244913	2.10	
19 2-Methylbutane	43	5.407	5.407	0.0	92	295057	1.91	
20 Trichlorofluoromethane	101	5.644	5.644	0.0	97	640547	2.03	
21 Acrolein	56	5.644	5.644	0.0	66	45177	1.52	
22 Acetonitrile	40	5.713	5.713	0.0	98	60382	1.84	
23 Acetone	58	5.767	5.767	0.0	91	65004	1.26	
24 Isopropyl alcohol	45	5.848	5.848	0.0	97	257527	1.89	
25 Pentane	72	5.880	5.880	0.0	97	38620	1.98	
26 Ethyl ether	31	6.047	6.047	0.0	93	176110	1.85	
27 1,1-Dichloroethene	96	6.391	6.391	0.0	97	233321	2.29	
28 2-Methyl-2-propanol	59	6.472	6.472	0.0	95	284922	1.70	
29 Acrylonitrile	53	6.488	6.488	0.0	93	102541	1.90	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.580	6.580	0.0	95	490898	2.24	
31 Methylene Chloride	84	6.757	6.757	0.0	95	205616	2.12	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.773	6.773	0.0	92	177385	1.75	
33 Carbon disulfide	76	6.935	6.935	0.0	100	685693	2.01	
34 trans-1,2-Dichloroethene	96	7.602	7.602	0.0	98	230780	1.88	
35 2-Methylpentane	43	7.623	7.623	0.0	94	522840	1.86	
36 Methyl tert-butyl ether	73	7.725	7.725	0.0	96	386874	2.09	
37 1,1-Dichloroethane	63	8.037	8.037	0.0	100	382119	1.99	
38 Vinyl acetate	43	8.134	8.134	0.0	100	328023	1.95	
39 2-Butanone (MEK)	72	8.586	8.586	0.0	99	67540	1.96	
40 Hexane	56	8.635	8.635	0.0	90	173661	1.78	
41 cis-1,2-Dichloroethene	96	9.043	9.043	0.0	95	217993	2.08	
42 Ethyl acetate	43	9.216	9.216	0.0	98	309230	2.06	
43 Chloroform	83	9.393	9.393	0.0	96	427552	2.02	
44 Tetrahydrofuran	42	9.802	9.802	0.0	94	169081	2.01	
45 1,1,1-Trichloroethane	97	10.442	10.442	0.0	96	439761	1.99	
46 1,2-Dichloroethane	62	10.539	10.539	0.0	96	259801	2.18	
47 n-Butanol	31	10.942	10.942	0.0	86	61685	1.83	
48 Benzene	78	11.023	11.023	0.0	97	550283	2.08	
49 Cyclohexane	69	11.034	11.034	0.0	92	107676	2.07	
50 Carbon tetrachloride	117	11.050	11.050	0.0	97	464463	2.13	
51 2,3-Dimethylpentane	71	11.136	11.136	0.0	91	126213	2.03	
52 Thiophene	84	11.292	11.292	0.0	96	346965	2.13	
53 Isooctane	57	11.760	11.760	0.0	98	938606	2.08	
54 n-Heptane	71	12.120	12.120	0.0	93	196847	2.11	
55 1,2-Dichloropropane	63	12.206	12.206	0.0	87	177841	1.99	
56 Trichloroethene	130	12.244	12.244	0.0	93	274757	2.14	
57 Dibromomethane	93	12.325	12.325	0.0	92	241107	2.05	
59 Dichlorobromomethane	83	12.465	12.465	0.0	99	406186	2.18	
58 1,4-Dioxane	88	12.470	12.470	0.0	88	63123	1.97	
60 Methyl methacrylate	41	12.540	12.540	0.0	91	175009	2.18	
61 Methylcyclohexane	83	13.008	13.008	0.0	96	362434	2.04	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.368	0.0	98	325315	2.02	
63 cis-1,3-Dichloropropene	75	13.438	13.438	0.0	95	251087	1.98	
64 trans-1,3-Dichloropropene	75	14.116	14.116	0.0	99	225457	2.12	
65 Toluene	91	14.256	14.256	0.0	93	514315	2.16	
66 1,1,2-Trichloroethane	83	14.321	14.321	0.0	97	156606	2.08	
67 2-Methylthiophene	97	14.407	14.407	0.0	98	442293	2.07	
68 3-Methylthiophene	97	14.600	14.600	0.0	99	453583	2.12	
69 2-Hexanone	58	14.681	14.681	0.0	93	163752	2.10	
70 n-Octane	85	14.923	14.923	0.0	94	193649	2.22	
71 Chlorodibromomethane	129	15.020	15.020	0.0	96	365933	2.20	
72 Ethylene Dibromide	107	15.310	15.310	0.0	98	268810	2.08	
73 Tetrachloroethene	129	15.386	15.386	0.0	93	240416	2.17	
75 Chlorobenzene	112	16.246	16.246	0.0	91	412961	2.03	
74 2,3-Dimethylheptane	43	16.252	16.252	0.0	95	583907	2.23	
76 Ethylbenzene	91	16.532	16.532	0.0	98	581730	2.22	
77 2-Ethylthiophene	97	16.628	16.628	0.0	98	445183	2.16	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	100	906341	4.28	
79 n-Nonane	57	17.091	17.091	0.0	92	337288	2.05	
81 Bromoform	173	17.145	17.145	0.0	94	271427	2.07	
80 Styrene	104	17.150	17.150	0.0	98	333418	2.29	
82 o-Xylene	91	17.215	17.215	0.0	96	470942	2.19	
83 1,1,2,2-Tetrachloroethane	83	17.527	17.527	0.0	99	387345	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.683	17.683	0.0	97	93583	2.22	
85 Isopropylbenzene	105	17.785	17.785	0.0	97	657951	2.15	
86 N-Propylbenzene	120	18.301	18.301	0.0	98	177878	2.20	
87 2-Chlorotoluene	126	18.350	18.350	0.0	97	174479	2.07	
88 4-Ethyltoluene	105	18.447	18.447	0.0	98	640634	2.25	
89 1,3,5-Trimethylbenzene	120	18.517	18.517	0.0	92	315099	2.20	
90 Alpha Methyl Styrene	118	18.737	18.737	0.0	84	235456	2.29	
91 n-Decane	57	18.786	18.786	0.0	89	364564	2.08	
92 tert-Butylbenzene	119	18.931	18.931	0.0	88	599505	2.14	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	94	548295	2.20	
94 sec-Butylbenzene	105	19.189	19.189	0.0	98	799931	2.19	
95 1,3-Dichlorobenzene	146	19.211	19.211	0.0	99	318747	1.95	
96 Benzyl chloride	91	19.280	19.280	0.0	98	388432	2.09	
97 1,4-Dichlorobenzene	146	19.297	19.297	0.0	93	294368	1.93	
98 4-Isopropyltoluene	119	19.345	19.345	0.0	88	639055	2.18	
99 1,2,3-Trimethylbenzene	105	19.404	19.404	0.0	98	456765	2.25	
100 Butylcyclohexane	83	19.453	19.453	0.0	94	472603	2.04	
101 2,3-Dihydroindene	117	19.646	19.646	0.0	89	500227	2.20	
102 1,2-Dichlorobenzene	146	19.646	19.646	0.0	78	314494	1.97	
103 n-Butylbenzene	91	19.770	19.770	0.0	96	562102	2.07	
104 Indene	116	19.775	19.775	0.0	86	453255	2.28	
105 Undecane	57	20.066	20.066	0.0	96	365271	2.06	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.130	20.130	0.0	97	565787	2.06	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.523	0.0	97	597770	2.17	
107 1,2,3,5-Tetramethylbenzene	119	20.577	20.577	0.0	95	366968	2.04	
109 1,2,3,4-Tetramethylbenzene	119	20.991	20.991	0.0	96	471932	2.12	
110 Dodecane	57	21.142	21.142	0.0	95	359633	1.96	
111 1,2,4-Trichlorobenzene	180	21.373	21.373	0.0	94	136853	1.92	
112 Naphthalene	128	21.518	21.518	0.0	99	389180	1.93	
113 Benzo(b)thiophene	134	21.626	21.626	0.0	99	255180	1.87	
114 Hexachlorobutadiene	225	21.723	21.723	0.0	84	248264	1.71	
115 1,2,3-Trichlorobenzene	180	21.793	21.793	0.0	95	172325	1.87	
116 2-Methylnaphthalene	142	22.444	22.444	0.0	98	169073	7.89	
117 1-Methylnaphthalene	142	22.573	22.573	0.0	97	179390	8.12	
139 Isopropyl ether	45	8.785	8.785	0.0	97	513963	NR	
142 Tert-butyl ethyl ether	59	9.474	9.474	0.0	96	458428	NR	
140 Tert-amyl methyl ether	73	11.469	11.469	0.0	93	431598	NR	
A 118 C6 Range	1	8.635	8.575 - 8.694		0	1986168	1.87	
A 122 Toluene Range	1	14.256	14.226 - 14.286		0	1236663	2.14	
A 123 C8 Range	1	14.915	14.869 - 14.988		0	1847293	2.06	
S 124 Xylenes, Total	100				0		6.47	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18.D

Injection Date: 18-Mar-2014 10:16:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

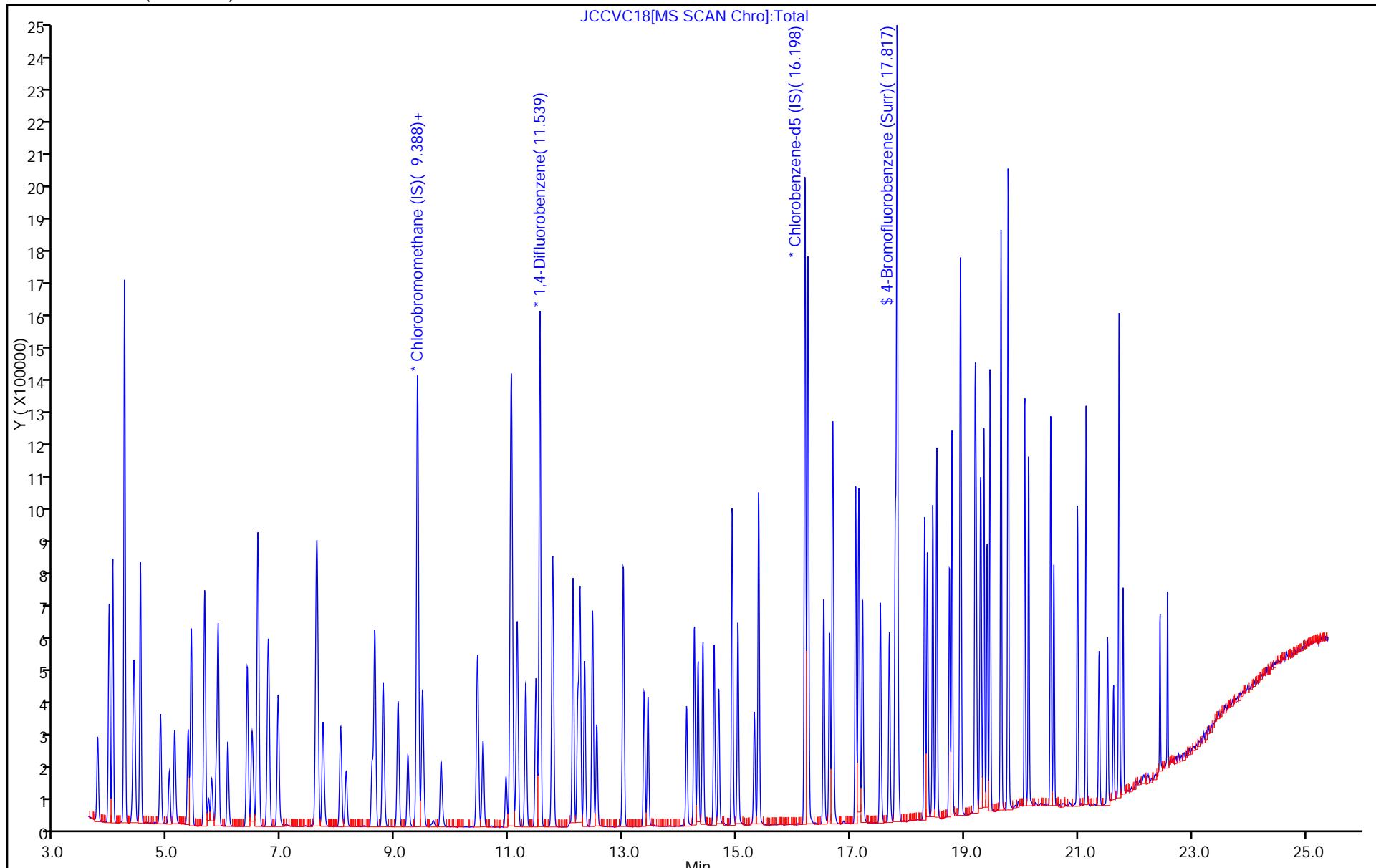
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4222		2.05	2.00	2.3	30.0
Propene	Ave	1.227	1.244		2.03	2.00	1.5	30.0
Dichlorodifluoromethane	Ave	3.962	4.275		2.16	2.00	7.9	30.0
Chloromethane	Ave	0.4501	0.4604		2.05	2.00	2.3	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.337		2.23	2.00	11.6	30.0
Acetaldehyde	Ave	0.3947	0.3297		8.36	10.0	-16.5	50.0
Vinyl chloride	Ave	1.483	1.517		2.05	2.00	2.3	30.0
1,3-Butadiene	Ave	1.030	1.078		2.09	2.00	4.7	30.0
Butane	Ave	2.110	2.093		1.98	2.00	-0.8	30.0
Bromomethane	Ave	1.508	1.488		1.97	2.00	-1.4	30.0
Chloroethane	Ave	0.6822	0.6600		1.94	2.00	-3.3	30.0
Ethanol	Ave	0.3211	0.3404		10.6	10.0	6.0	50.0
Vinyl bromide	Ave	1.283	1.387		2.16	2.00	8.2	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.1	30.0
Acrolein	Ave	0.3266	0.2674		1.64	2.00	-18.1	30.0
Trichlorofluoromethane	Ave	3.481	3.659		2.10	2.00	5.1	30.0
Acetonitrile	Ave	0.3607	0.3565		1.98	2.00	-1.2	30.0
Acetone	Ave	0.5686	0.4026		1.42	2.00	-29.2	30.0
Isopropyl alcohol	Ave	1.501	1.497		1.99	2.00	-0.3	30.0
Pentane	Ave	0.2152	0.2179		2.03	2.00	1.3	30.0
Ethyl ether	Ave	1.047	1.042		1.99	2.00	-0.4	30.0
1,1-Dichloroethene	Ave	1.123	1.330		2.37	2.00	18.4	30.0
tert-Butyl alcohol	Ave	1.849	1.642		1.78	2.00	-11.2	30.0
Acrylonitrile	Ave	0.5945	0.6174		2.08	2.00	3.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.822		2.34	2.00	17.0	30.0
Methylene Chloride	Ave	1.070	1.176		2.20	2.00	9.9	30.0
3-Chloropropene	Ave	1.113	1.001		1.80	2.00	-10.0	30.0
Carbon disulfide	Ave	3.763	3.881		2.06	2.00	3.1	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.328		1.96	2.00	-1.8	30.0
2-Methylpentane	Ave	3.087	3.005		1.95	2.00	-2.6	50.0
Methyl tert-butyl ether	Ave	2.042	2.307		2.26	2.00	13.0	30.0
1,1-Dichloroethane	Ave	2.111	2.162		2.05	2.00	2.4	30.0
Vinyl acetate	Ave	1.849	1.986		2.15	2.00	7.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.4062		2.15	2.00	7.3	30.0
Hexane	Ave	1.075	0.9887		1.84	2.00	-8.1	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.241		2.15	2.00	7.4	30.0
Ethyl acetate	Ave	1.649	1.877		2.28	2.00	13.8	30.0
Chloroform	Ave	2.331	2.385		2.05	2.00	2.3	30.0
Tetrahydrofuran	Ave	0.9265	1.020		2.20	2.00	10.1	30.0
1,1,1-Trichloroethane	Ave	2.429	2.476		2.04	2.00	1.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3255		2.10	2.00	4.9	30.0
1-Butanol	Ave	0.0874	0.0865		1.98	2.00	-1.1	30.0
Benzene	Ave	0.6863	0.6920		2.02	2.00	0.8	30.0
Cyclohexane	Ave	0.1354	0.1461		2.16	2.00	7.8	30.0
Carbon tetrachloride	Ave	0.5669	0.6096		2.15	2.00	7.5	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1697		2.10	2.00	4.8	50.0
Thiophene	Ave	0.4238	0.4460		2.11	2.00	5.2	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.250		2.13	2.00	6.7	30.0
Heptane	Ave	0.2427	0.2623		2.16	2.00	8.1	30.0
1,2-Dichloropropane	Ave	0.2320	0.2406		2.08	2.00	3.7	30.0
Trichloroethene	Ave	0.3329	0.3680		2.21	2.00	10.5	30.0
Dibromomethane	Ave	0.3053	0.3189		2.09	2.00	4.5	30.0
Bromodichloromethane	Ave	0.4844	0.5320		2.20	2.00	9.8	30.0
1,4-Dioxane	Ave	0.0831	0.0889		2.14	2.00	7.0	30.0
Methyl methacrylate	Ave	0.2081	0.2512		2.42	2.00	20.7	30.0
Methylcyclohexane	Ave	0.4620	0.4835		2.09	2.00	4.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.4682		2.23	2.00	11.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3401		2.07	2.00	3.3	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3731		2.25	2.00	12.6	30.0
Toluene	Ave	0.7420	0.8478		2.29	2.00	14.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2568		2.19	2.00	9.2	30.0
2-Methylthiophene	Ave	0.6668	0.7357		2.21	2.00	10.3	50.0
3-Methylthiophene	Ave	0.6690	0.7402		2.21	2.00	10.7	50.0
2-Hexanone	Ave	0.2430	0.2755		2.27	2.00	13.4	30.0
Octane	Ave	0.2723	0.3061		2.25	2.00	12.4	30.0
Dibromochloromethane	Ave	0.5191	0.5655		2.18	2.00	8.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4431		2.20	2.00	9.9	30.0
Tetrachloroethene	Ave	0.3457	0.3791		2.19	2.00	9.7	30.0
Chlorobenzene	Ave	0.6339	0.6726		2.12	2.00	6.1	30.0
2,3-Dimethylheptane	Ave	0.8171	0.8796		2.15	2.00	7.6	50.0
Ethylbenzene	Ave	0.8196	0.9888		2.41	2.00	20.6	30.0
2-Ethylthiophene	Ave	0.6423	0.7532		2.35	2.00	17.3	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.7687		4.65	4.00	16.2	30.0
Nonane	Ave	0.5146	0.5432		2.11	2.00	5.6	30.0
Bromoform	Ave	0.4101	0.4466		2.18	2.00	8.9	30.0
Styrene	Ave	0.4542	0.5438		2.40	2.00	19.7	30.0
o-Xylene	Ave	0.6705	0.7903		2.36	2.00	17.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.6453		2.36	2.00	17.8	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1571		2.39	2.00	19.6	30.0
Isopropylbenzene	Ave	0.9553	1.116		2.34	2.00	16.8	30.0
Propylbenzene	Ave	0.2519	0.2992		2.38	2.00	18.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2919		2.22	2.00	11.0	30.0
4-Ethyltoluene	Ave	0.8909	1.083		2.43	2.00	21.6	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.5307		2.37	2.00	18.5	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3932		2.45	2.00	22.5	30.0
Decane	Ave	0.5485	0.6016		2.19	2.00	9.7	30.0
tert-Butylbenzene	Ave	0.8748	1.013		2.32	2.00	15.8	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.9230		2.38	2.00	18.8	30.0
sec-Butylbenzene	Ave	1.140	1.334		2.34	2.00	17.0	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.5303		2.08	2.00	3.9	30.0
Benzyl chloride	Ave	0.5802	0.6362		2.19	2.00	9.7	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4927		2.07	2.00	3.7	30.0
4-Isopropyltoluene	Ave	0.9141	1.062		2.32	2.00	16.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.7671		2.43	2.00	21.2	50.0
Butylcyclohexane	Ave	0.7225	0.7730		2.14	2.00	7.0	50.0
Indane	Ave	0.7098	0.8343		2.35	2.00	17.6	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.5200		2.08	2.00	4.1	30.0
Butylbenzene	Ave	0.8482	0.9271		2.19	2.00	9.3	30.0
Indene	Ave	0.6202	0.7485		2.42	2.00	20.7	50.0
Undecane	Ave	0.5525	0.6144		2.23	2.00	11.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.9348		2.18	2.00	9.1	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	1.014		2.36	2.00	17.7	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.6157		2.19	2.00	9.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7885		2.27	2.00	13.2	50.0
Dodecane	Ave	0.5721	0.6042		2.11	2.00	5.6	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2250		2.03	2.00	1.3	30.0
Naphthalene	Ave	0.6294	0.6433		2.05	2.00	2.2	30.0
Benzo (b) thiophene	Ave	0.4265	0.4204		1.97	2.00	-1.4	50.0
Hexachlorobutadiene	Ave	0.4540	0.4111		1.81	2.00	-9.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2837		1.98	2.00	-1.2	30.0
2-Methylnaphthalene	Ave	0.0669	0.0451		8.42	12.5	-32.6	50.0
1-Methylnaphthalene	Ave	0.0690	0.0482		8.73	12.5	-30.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.6922		3.91	4.00	-2.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 19-Mar-2014 11:06:30 ALS Bottle#: 9 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031914,TO15,,140-0000532-002
 Operator ID: 403648 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3

Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 17:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.385	0.0	91	344423	4.00	
* 2 1,4-Difluorobenzene	114	11.542	11.542	0.0	93	1458024	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.201	16.201	0.0	86	1214604	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.820	0.0	91	840735	3.91	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	72746	2.05	
7 Propene	41	3.973	3.973	0.0	99	214420	2.03	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	736627	2.16	
9 Chloromethane	52	4.231	4.231	0.0	98	79325	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	575045	2.23	
11 Acetaldehyde	44	4.398	4.398	0.0	99	284056	8.36	
12 Vinyl chloride	62	4.420	4.420	0.0	99	261396	2.05	
14 Butadiene	54	4.516	4.516	0.0	91	185801	2.09	
13 Butane	43	4.516	4.516	0.0	89	360613	1.98	
15 Bromomethane	94	4.871	4.871	0.0	99	256321	1.97	
16 Chloroethane	64	5.022	5.022	0.0	99	113716	1.94	
17 Ethanol	31	5.119	5.119	0.0	95	293298	10.6	
18 Vinyl bromide	106	5.356	5.356	0.0	97	239065	2.16	
19 2-Methylbutane	43	5.409	5.409	0.0	92	289633	1.98	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	98	630457	2.10	
21 Acrolein	56	5.646	5.646	0.0	24	46081	1.64	
22 Acetonitrile	40	5.716	5.716	0.0	99	61423	1.98	
23 Acetone	58	5.770	5.770	0.0	91	69368	1.42	
24 Isopropyl alcohol	45	5.850	5.850	0.0	97	257858	1.99	
25 Pentane	72	5.883	5.883	0.0	97	37549	2.03	
26 Ethyl ether	31	6.050	6.050	0.0	93	179592	1.99	
27 1,1-Dichloroethene	96	6.394	6.394	0.0	97	229123	2.37	
28 2-Methyl-2-propanol	59	6.475	6.475	0.0	95	282847	1.78	
29 Acrylonitrile	53	6.491	6.491	0.0	94	106371	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.582	0.0	95	486321	2.34	
31 Methylene Chloride	84	6.754	6.754	0.0	95	202657	2.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.776	0.0	92	172521	1.80	
33 Carbon disulfide	76	6.937	6.937	0.0	100	668634	2.06	
34 trans-1,2-Dichloroethene	96	7.604	7.604	0.0	99	228792	1.96	
35 2-Methylpentane	43	7.626	7.626	0.0	95	517789	1.95	
36 Methyl tert-butyl ether	73	7.728	7.728	0.0	96	397456	2.26	
37 1,1-Dichloroethane	63	8.035	8.035	0.0	100	372467	2.05	
38 Vinyl acetate	43	8.131	8.131	0.0	100	342229	2.15	
39 2-Butanone (MEK)	72	8.589	8.589	0.0	97	69988	2.15	
40 Hexane	56	8.637	8.637	0.0	90	170354	1.84	
41 cis-1,2-Dichloroethene	96	9.046	9.046	0.0	94	213783	2.15	
42 Ethyl acetate	43	9.218	9.218	0.0	97	323359	2.28	
43 Chloroform	83	9.396	9.396	0.0	97	411011	2.05	
44 Tetrahydrofuran	42	9.799	9.799	0.0	94	175791	2.20	
45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	96	426625	2.04	
46 1,2-Dichloroethane	62	10.536	10.536	0.0	95	237399	2.10	
47 n-Butanol	31	10.945	10.945	0.0	91	63087	1.98	
48 Benzene	78	11.026	11.026	0.0	96	504745	2.02	
49 Cyclohexane	69	11.031	11.031	0.0	90	106529	2.16	
50 Carbon tetrachloride	117	11.047	11.047	0.0	94	444605	2.15	
51 2,3-Dimethylpentane	71	11.139	11.139	0.0	92	123790	2.10	
52 Thiophene	84	11.289	11.289	0.0	96	325316	2.11	
53 Isooctane	57	11.763	11.763	0.0	98	911737	2.13	
54 n-Heptane	71	12.123	12.123	0.0	92	191345	2.16	
55 1,2-Dichloropropane	63	12.204	12.204	0.0	89	175480	2.08	
56 Trichloroethene	130	12.241	12.241	0.0	93	268386	2.21	
57 Dibromomethane	93	12.322	12.322	0.0	92	232580	2.09	
59 Dichlorobromomethane	83	12.462	12.462	0.0	99	388005	2.20	
58 1,4-Dioxane	88	12.467	12.467	0.0	87	64853	2.14	
60 Methyl methacrylate	41	12.537	12.537	0.0	91	183229	2.42	
61 Methylcyclohexane	83	13.005	13.005	0.0	96	352698	2.09	
62 4-Methyl-2-pentanone (MIBK)	43	13.371	13.371	0.0	98	341467	2.23	
63 cis-1,3-Dichloropropene	75	13.441	13.441	0.0	95	248049	2.07	
64 trans-1,3-Dichloropropene	75	14.119	14.119	0.0	99	226691	2.25	
65 Toluene	91	14.253	14.253	0.0	93	515114	2.29	
66 1,1,2-Trichloroethane	83	14.318	14.318	0.0	97	156049	2.19	
67 2-Methylthiophene	97	14.404	14.404	0.0	98	447018	2.21	
68 3-Methylthiophene	97	14.603	14.603	0.0	99	449786	2.21	
69 2-Hexanone	58	14.684	14.684	0.0	93	167394	2.27	
70 n-Octane	85	14.920	14.920	0.0	94	185975	2.25	
71 Chlorodibromomethane	129	15.022	15.022	0.0	96	343611	2.18	
72 Ethylene Dibromide	107	15.308	15.308	0.0	98	269243	2.20	
73 Tetrachloroethene	129	15.383	15.383	0.0	92	230370	2.19	
75 Chlorobenzene	112	16.249	16.249	0.0	92	408671	2.12	
74 2,3-Dimethylheptane	43	16.254	16.254	0.0	95	534471	2.15	
76 Ethylbenzene	91	16.529	16.529	0.0	98	600847	2.41	
77 2-Ethylthiophene	97	16.631	16.631	0.0	97	457666	2.35	
78 m-Xylene & p-Xylene	91	16.685	16.685	0.0	99	934156	4.65	
79 n-Nonane	57	17.088	17.088	0.0	93	330066	2.11	
81 Bromoform	173	17.142	17.142	0.0	94	271353	2.18	
80 Styrene	104	17.147	17.147	0.0	98	330409	2.40	
82 o-Xylene	91	17.212	17.212	0.0	96	480233	2.36	
83 1,1,2,2-Tetrachloroethane	83	17.524	17.524	0.0	99	392126	2.36	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.680	17.680	0.0	97	95453	2.39	
85 Isopropylbenzene	105	17.788	17.788	0.0	97	678172	2.34	
86 N-Propylbenzene	120	18.304	18.304	0.0	98	181789	2.38	
87 2-Chlorotoluene	126	18.352	18.352	0.0	97	177346	2.22	
88 4-Ethyltoluene	105	18.444	18.444	0.0	98	658282	2.43	
89 1,3,5-Trimethylbenzene	120	18.514	18.514	0.0	92	322460	2.37	
90 Alpha Methyl Styrene	118	18.740	18.740	0.0	85	238891	2.45	
91 n-Decane	57	18.783	18.783	0.0	89	365558	2.19	
92 tert-Butylbenzene	119	18.928	18.928	0.0	87	615274	2.32	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	94	560823	2.38	
94 sec-Butylbenzene	105	19.192	19.192	0.0	98	810809	2.34	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	322230	2.08	
96 Benzyl chloride	91	19.278	19.278	0.0	98	386598	2.19	
97 1,4-Dichlorobenzene	146	19.294	19.294	0.0	93	299344	2.07	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	645024	2.32	
99 1,2,3-Trimethylbenzene	105	19.401	19.401	0.0	98	466136	2.43	
100 Butylcyclohexane	83	19.455	19.455	0.0	93	469702	2.14	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	506967	2.35	
102 1,2-Dichlorobenzene	146	19.649	19.649	0.0	94	315972	2.08	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	563298	2.19	
104 Indene	116	19.773	19.773	0.0	86	454828	2.42	
105 Undecane	57	20.063	20.063	0.0	96	373317	2.23	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.133	20.133	0.0	97	567986	2.18	
108 1,2,4,5-Tetramethylbenzene	119	20.520	20.520	0.0	97	615899	2.36	
107 1,2,3,5-Tetramethylbenzene	119	20.574	20.574	0.0	95	374139	2.19	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	97	479119	2.27	
110 Dodecane	57	21.139	21.139	0.0	95	367147	2.11	
111 1,2,4-Trichlorobenzene	180	21.370	21.370	0.0	94	136711	2.03	
112 Naphthalene	128	21.521	21.521	0.0	99	390899	2.05	
113 Benzo(b)thiophene	134	21.623	21.623	0.0	99	255454	1.97	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	84	249776	1.81	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	95	172407	1.98	
116 2-Methylnaphthalene	142	22.441	22.441	0.0	99	171218	8.42	
117 1-Methylnaphthalene	142	22.575	22.575	0.0	96	182975	8.73	
139 Isopropyl ether	45	8.782	8.782	0.0	97	534408	NR	
142 Tert-butyl ethyl ether	59	9.476	9.476	0.0	96	472675	NR	
140 Tert-amyl methyl ether	73	11.467	11.467	0.0	93	444680	NR	
A 118 C6 Range	1	8.632	8.562 - 8.702		0	1680235	1.67	
A 122 Toluene Range	1	14.253	14.223 - 14.283		0	1227464	2.24	
A 123 C8 Range	1	14.921	14.877 - 14.985		0	1788334	2.10	
S 124 Xylenes, Total	100				0		7.01	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19.D

Injection Date: 19-Mar-2014 11:06:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

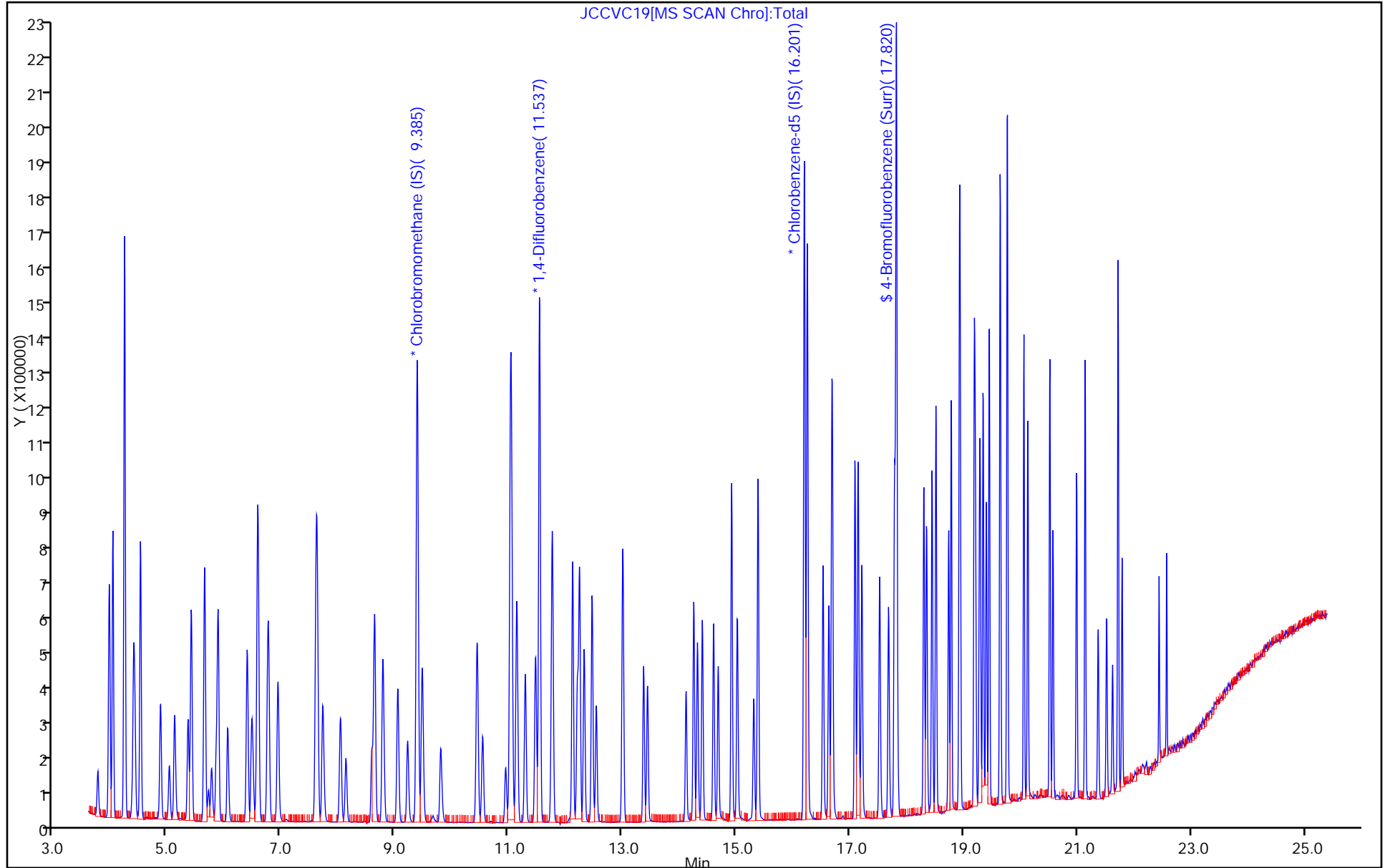
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo (b) thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J032114,TO15,,140-0000540-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 - 8.695		0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 - 14.277		0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 - 14.973		0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D

Injection Date: 21-Mar-2014 11:30:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

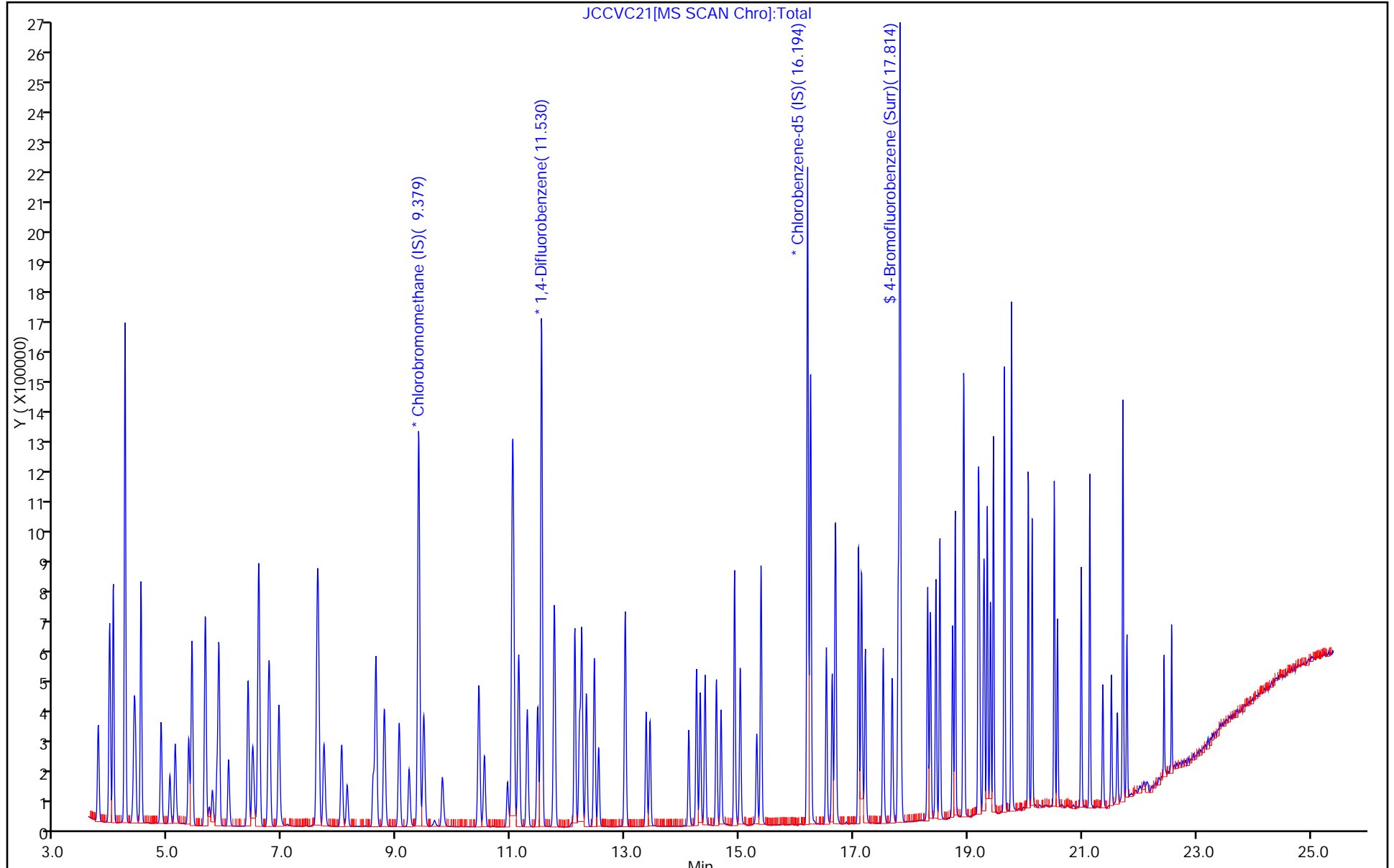
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Sample Type: BFB
 Inject. Date: 28-Jan-2014 13:40:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,BFB
 Misc. Info.: E012814I,BFB,140-0000390-001
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140128-390.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 30-Jan-2014 13:09:09 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 30-Jan-2014 11:32:37

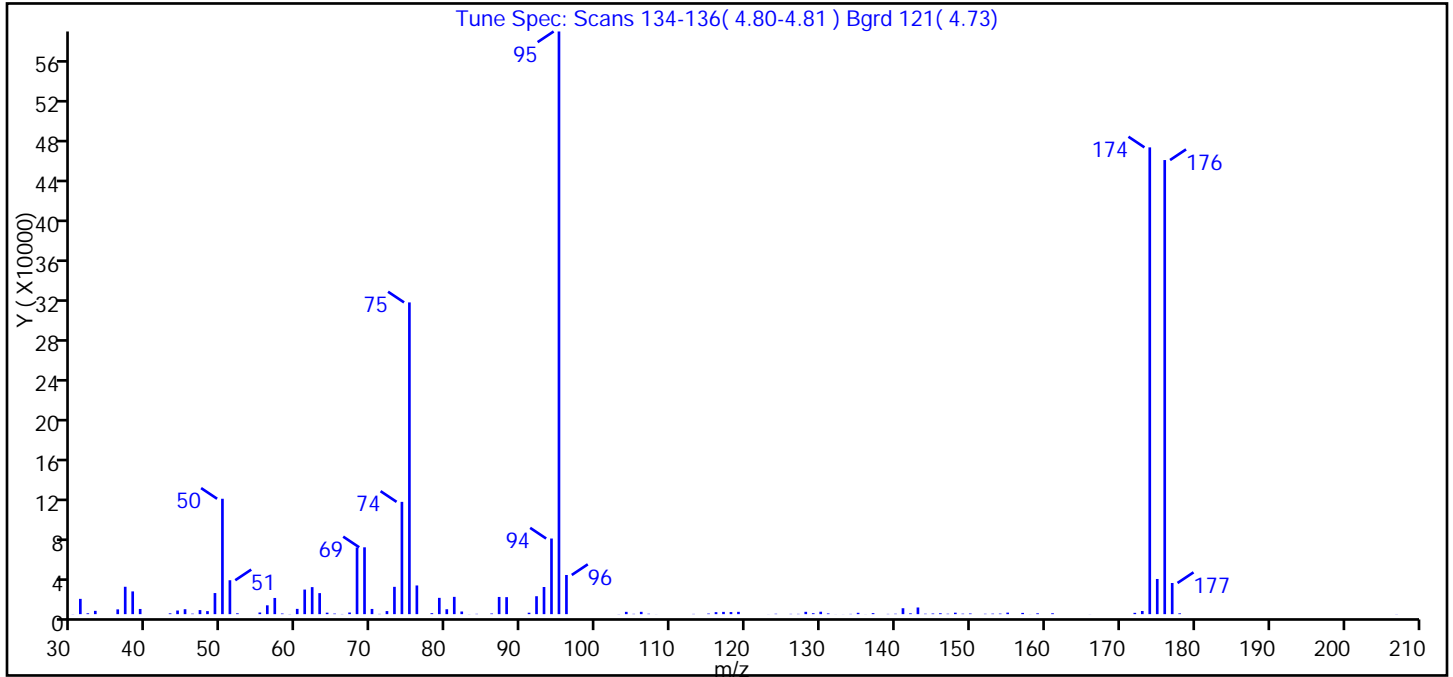
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
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\$ 132 BFB	95	4.807	4.807	0.0	0	1245414	NR	
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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D
 Injection Date: 28-Jan-2014 13:40:30 Instrument ID: ME
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.80
75	30.00 - 60.00% of mass 95	53.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	80.10
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	77.90 (97.30)
177	5.00 - 9.00% of mass 176	5.30 (6.90)

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D\ME_TO15.rsl\spectra.d
Injection Date: 28-Jan-2014 13:40:30
Spectrum: Tune Spec: Scans 134-136(4.80-4.81) Bgrd 121(4.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
30.00	123	65.00	548	103.00	123	141.00	5912
31.00	15263	66.00	172	104.00	2301	142.00	799
32.00	863	67.00	1634	105.00	307	143.00	6656
33.00	3296	68.00	66608	106.00	2313	144.00	414
36.00	4774	69.00	66768	107.00	396	145.00	623
37.00	27344	70.00	5194	108.00	68	146.00	874
38.00	22720	71.00	258	113.00	248	147.00	403
39.00	5176	72.00	3062	115.00	587	148.00	1453
43.00	800	73.00	27280	116.00	2002	149.00	463
44.00	3612	74.00	112176	117.00	2263	150.00	645
45.00	4918	75.00	311424	118.00	2098	152.00	361
46.00	484	76.00	28656	119.00	2298	153.00	491
47.00	4050	78.00	973	123.00	68	154.00	529
48.00	3027	79.00	16276	124.00	375	155.00	1518
49.00	21064	80.00	4900	126.00	279	157.00	1248
50.00	115272	81.00	17264	127.00	282	158.00	66
51.00	33864	82.00	2642	128.00	2333	159.00	835
52.00	846	83.00	90	129.00	921	161.00	868
55.00	1638	84.00	294	130.00	2418	166.00	70
56.00	8818	86.00	636	131.00	714	172.00	1303
57.00	16171	87.00	17184	132.00	67	173.00	3141
58.00	618	88.00	16984	133.00	73	174.00	466304
59.00	154	91.00	1423	134.00	248	175.00	35136
60.00	5263	92.00	17904	135.00	1343	176.00	453632
61.00	24552	93.00	27120	136.00	76	177.00	31120
62.00	26992	94.00	75544	137.00	995	178.00	803
63.00	21000	95.00	582080	139.00	254	207.00	129
64.00	1470	96.00	39120	140.00	397		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140128-390.b\EBFBA28.D

Injection Date: 28-Jan-2014 13:40:30

Instrument ID: ME

Operator ID: 7126

Lims ID: BFB

Lab Sample ID:

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

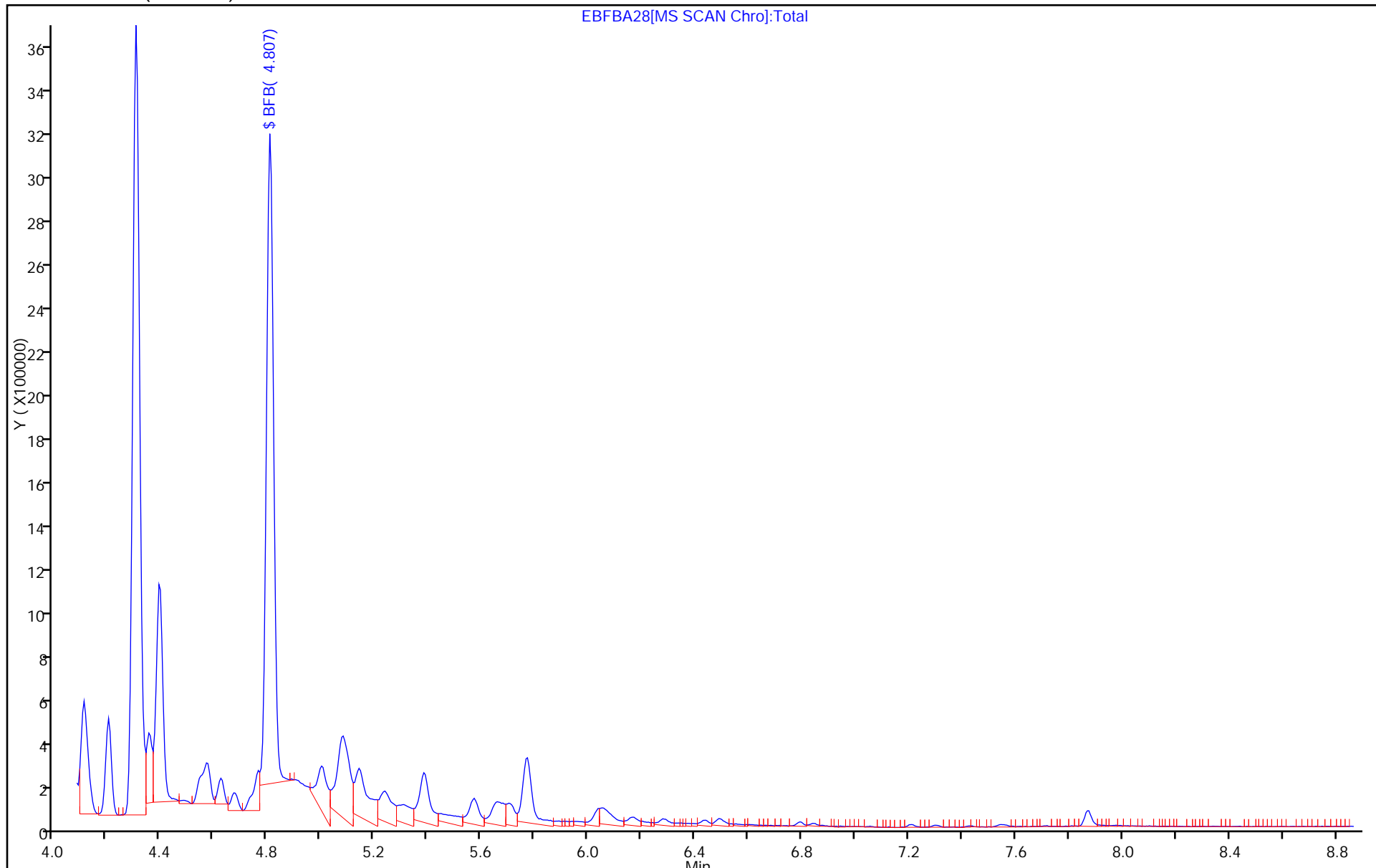
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 24-Mar-2014 08:44:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,BFB
 Misc. Info.: E032414,BFB,,140-0000541-001
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 13:17:14 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

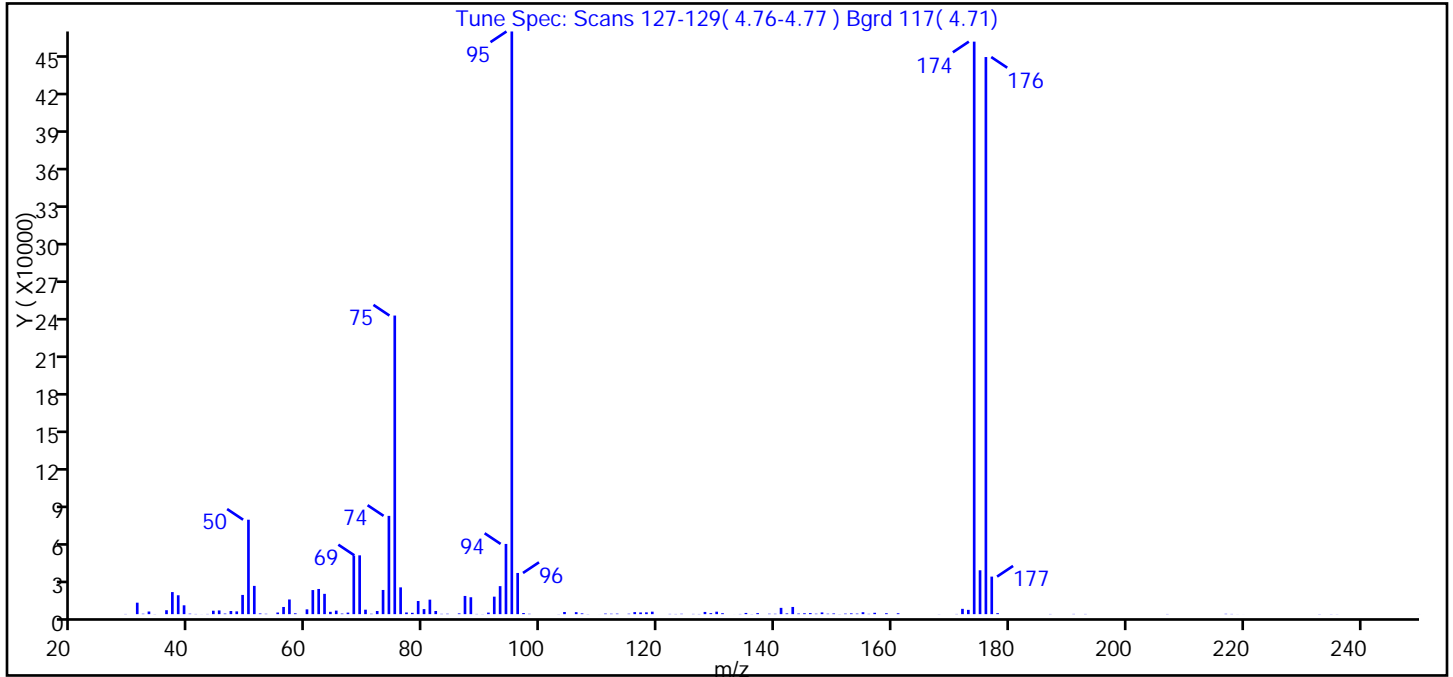
First Level Reviewer: tajh Date: 24-Mar-2014 13:17:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 132 BFB	95	4.769	4.769	0.0	0	1000012	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D
 Injection Date: 24-Mar-2014 08:44:30 Instrument ID: ME
 Lims ID: BFB
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 132 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.20
75	30.00 - 60.00% of mass 95	51.20
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.70 (0.70)
174	50.00 - 120.00% of mass 95	98.30
175	5.00 - 9.00% of mass 174	7.50 (7.70)
176	95.00 - 101.00% of mass 174	95.60 (97.30)
177	5.00 - 9.00% of mass 176	6.40 (6.70)

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D\ME_TO15.rslt\spectra.d
Injection Date: 24-Mar-2014 08:44:30
Spectrum: Tune Spec: Scans 127-129(4.76-4.77) Bgrd 117(4.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	148	67.00	1217	107.00	611	148.00	1353
31.00	9093	68.00	46480	108.00	102	149.00	349
32.00	314	69.00	46664	110.00	23	150.00	549
33.00	2086	70.00	3530	111.00	435	151.00	85
34.00	88	71.00	302	112.00	329	152.00	409
36.00	3115	72.00	2487	113.00	402	153.00	621
37.00	17504	73.00	19184	115.00	340	154.00	428
38.00	14977	74.00	77976	116.00	1616	155.00	1531
39.00	7011	75.00	236928	117.00	1363	156.00	243
40.00	362	76.00	21256	118.00	1443	157.00	1077
41.00	151	77.00	1328	119.00	1953	159.00	726
42.00	40	78.00	1057	122.00	188	161.00	712
43.00	164	79.00	10420	123.00	146	168.00	72
44.00	2714	80.00	4014	124.00	279	171.00	154
45.00	2946	81.00	11506	126.00	184	172.00	4200
46.00	465	82.00	2507	127.00	143	173.00	3395
47.00	2495	83.00	235	128.00	1748	174.00	454272
48.00	2189	84.00	316	129.00	795	175.00	34808
49.00	15251	86.00	600	130.00	1952	176.00	442048
50.00	74928	87.00	14443	131.00	741	177.00	29784
51.00	22416	88.00	13410	133.00	22	178.00	775
52.00	533	89.00	163	134.00	155	187.00	142
53.00	277	90.00	74	135.00	963	191.00	183
55.00	1284	91.00	1232	136.00	88	193.00	153
56.00	5694	92.00	13882	137.00	824	207.00	137
57.00	11637	93.00	22224	139.00	323	217.00	255
58.00	670	94.00	55712	140.00	293	218.00	164
60.00	3801	95.00	462336	141.00	4991	219.00	38
61.00	19104	96.00	32672	142.00	592	220.00	19
62.00	19976	97.00	871	143.00	5702	233.00	112
63.00	16108	98.00	265	144.00	472	235.00	92
64.00	1853	103.00	82	145.00	697	236.00	66
65.00	2801	104.00	1707	146.00	838	250.00	37

Report Date: 24-Mar-2014 13:17:14

Chrom Revision: 2.2 12-Mar-2014 11:19:24

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D\ME_TO15.rslt\spectra.d

Injection Date: 24-Mar-2014 08:44:30

Spectrum: Tune Spec: Scans 127-129(4.76-4.77) Bgrd 117(4.71)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
66.00	453	106.00	1576	147.00	343		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\EBFBC24.D

Injection Date: 24-Mar-2014 08:44:30

Instrument ID: ME

Operator ID: 7126

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

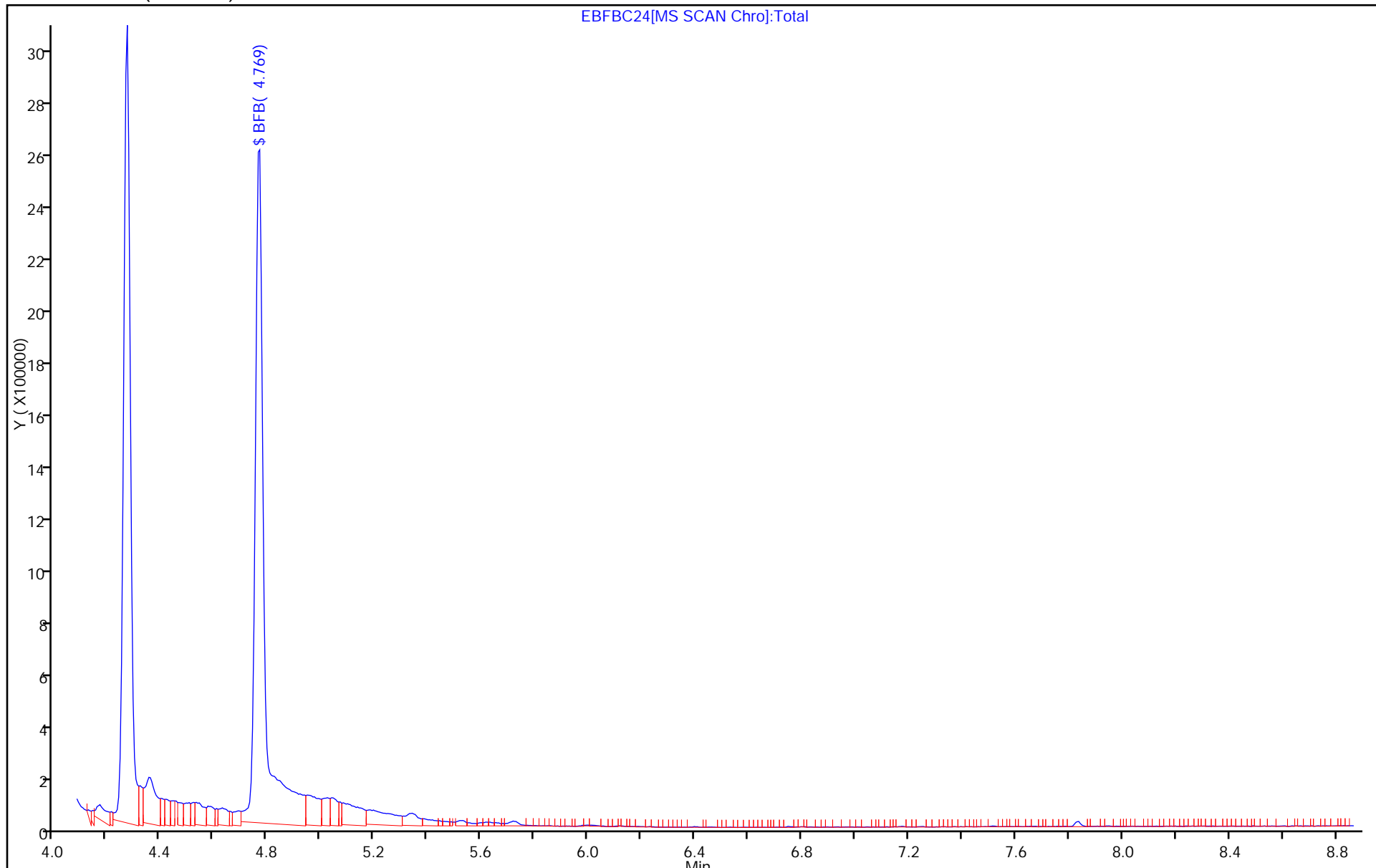
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
 Target Compound Quantitation Report

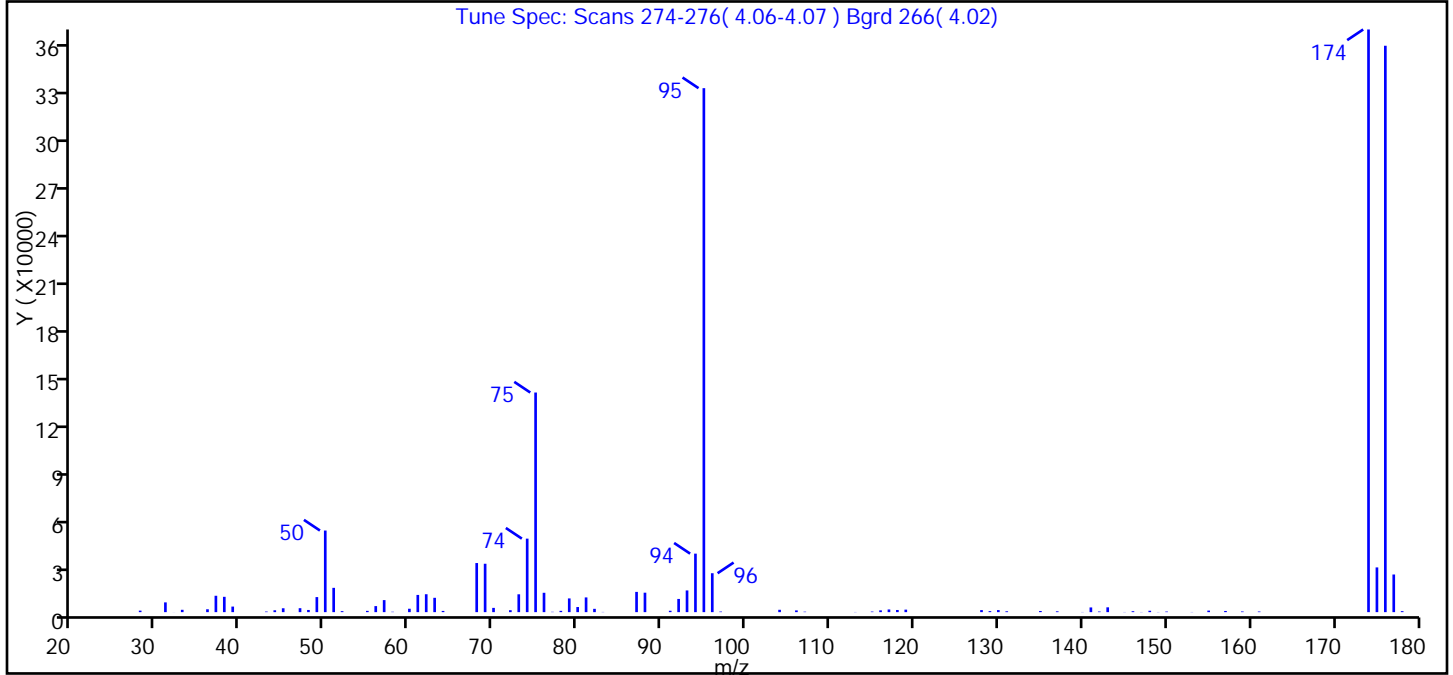
Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Sample Type: BFB
 Inject. Date: 11-Mar-2014 12:12:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,BFB
 Misc. Info.: J031114I,BFB,,,,140-0000516-001
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.067	4.067	0.0	0	577512	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
 Injection Date: 11-Mar-2014 12:12:30 Instrument ID: MJ
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.60
75	30.00 - 60.00% of mass 95	41.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	111.20
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	108.10 (97.20)
177	5.00 - 9.00% of mass 176	7.20 (6.60)

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D\MJ_TO15.rslt\spectra.d

Injection Date: 11-Mar-2014 12:12:30

Spectrum: Tune Spec: Scans 274-276(4.06-4.07) Bgrd 266(4.02)

Base Peak: 174.00

Minimum % Base Peak: 0

Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	953	61.00	10830	92.00	8305	141.00	2961
31.00	6139	62.00	11271	93.00	13655	142.00	393
32.00	34	63.00	9021	94.00	36808	143.00	3028
33.00	1475	64.00	763	95.00	329664	145.00	103
36.00	1812	68.00	30888	96.00	24488	146.00	580
37.00	10300	69.00	30448	97.00	363	147.00	102
38.00	9642	70.00	2681	104.00	1481	148.00	873
39.00	3502	72.00	1219	106.00	1093	149.00	103
43.00	373	73.00	11227	107.00	287	150.00	366
44.00	1174	74.00	46248	113.00	104	153.00	104
45.00	2439	75.00	138176	115.00	366	155.00	974
47.00	2486	76.00	12185	116.00	1129	157.00	736
48.00	1370	77.00	211	117.00	1684	159.00	420
49.00	9471	78.00	817	118.00	1356	161.00	400
50.00	51344	79.00	8634	119.00	1577	174.00	366592
51.00	15289	80.00	3213	128.00	1285	175.00	28144
52.00	627	81.00	9265	129.00	646	176.00	356352
55.00	803	82.00	2083	130.00	1299	177.00	23688
56.00	3804	83.00	127	131.00	535	178.00	619
57.00	7571	87.00	12739	135.00	724		
58.00	240	88.00	12242	137.00	514		
60.00	2142	91.00	876	140.00	107		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFB11.D

Injection Date: 11-Mar-2014 12:12:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: BFB

Lab Sample ID:

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

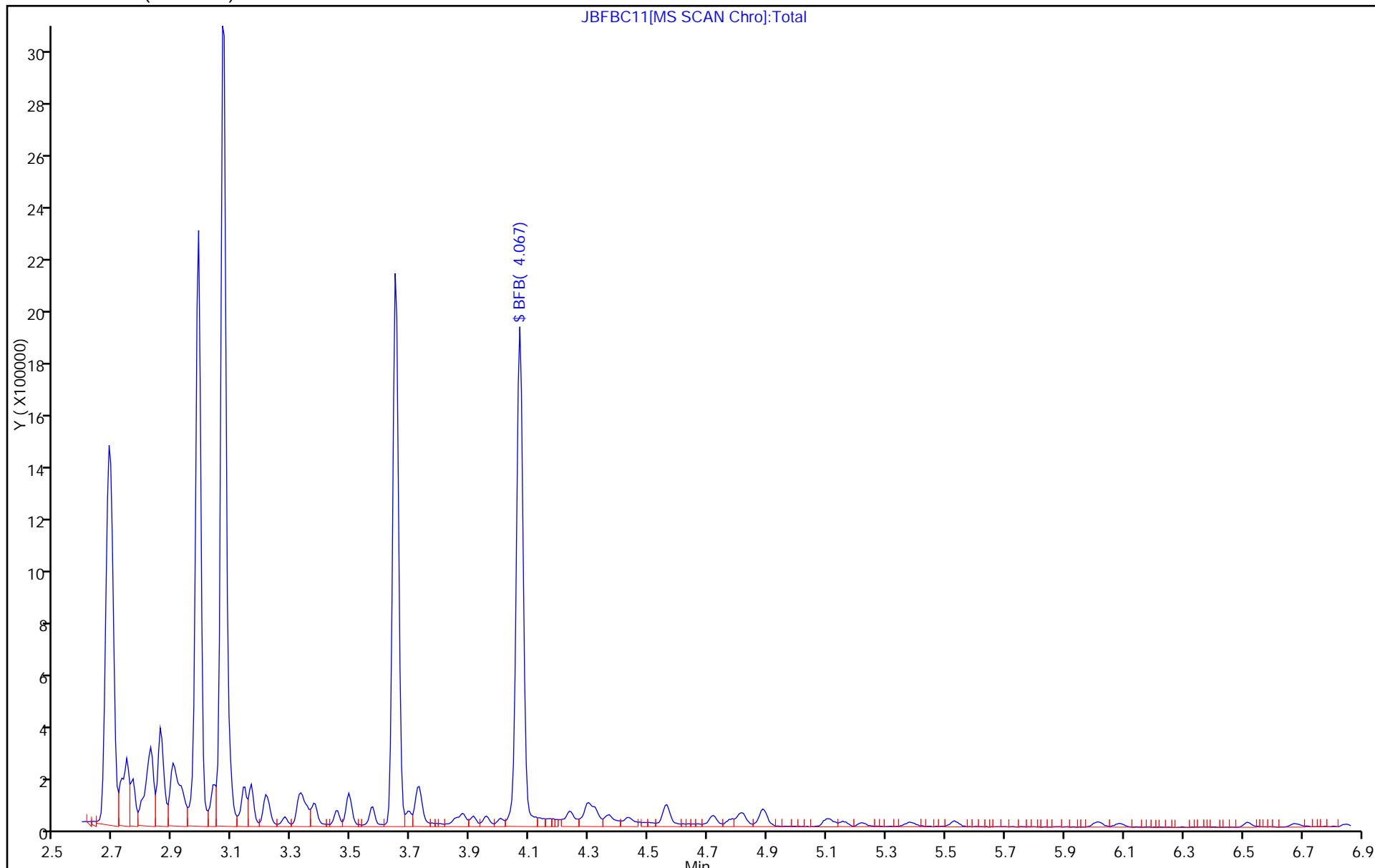
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JBFBC18.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 18-Mar-2014 09:48:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,bfb
 Misc. Info.: J031814,BFB,,140-0000527-001
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 13:30:30 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

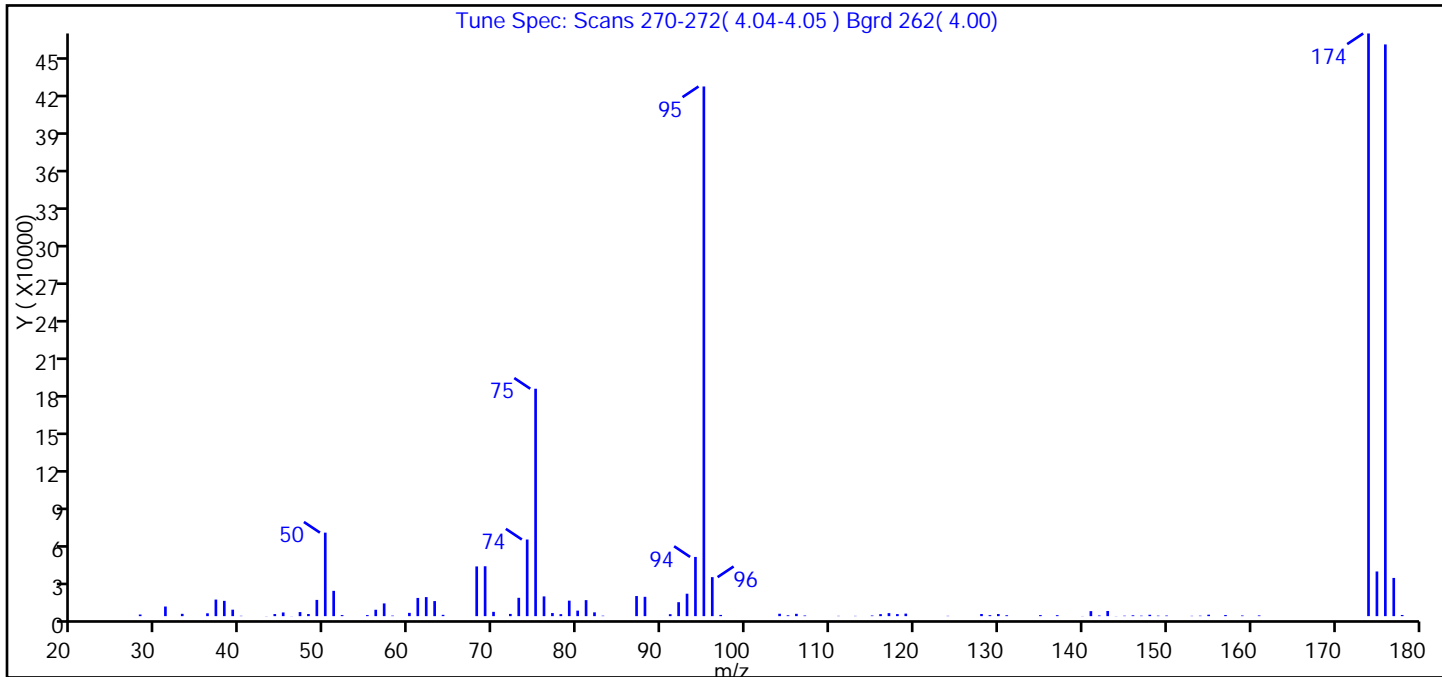
First Level Reviewer: barlozhetskayaa Date: 18-Mar-2014 13:30:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.046	4.046	0.0	0	738189	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JBFBC18.D
 Injection Date: 18-Mar-2014 09:48:30 Instrument ID: MJ
 Lims ID: bfb
 Client ID:
 Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.80
75	30.00 - 60.00% of mass 95	42.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.00
175	5.00 - 9.00% of mass 174	8.40 (7.70)
176	95.00 - 101.00% of mass 174	107.90 (98.10)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JBFBC18.D\MJ_TO15.rslt\spectra.d
Injection Date: 18-Mar-2014 09:48:30
Spectrum: Tune Spec: Scans 270-272(4.04-4.05) Bgrd 262(4.00)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	1314	61.00	14689	93.00	18096	140.00	128
31.00	7759	62.00	15370	94.00	47752	141.00	4046
33.00	1872	63.00	12153	95.00	427200	142.00	521
36.00	2301	64.00	1064	96.00	31456	143.00	4156
37.00	13361	68.00	40096	97.00	991	144.00	121
38.00	12330	69.00	40240	104.00	1934	145.00	345
39.00	5215	70.00	3466	105.00	691	146.00	686
40.00	266	72.00	1794	106.00	1881	147.00	373
43.00	116	73.00	14786	107.00	521	148.00	1110
44.00	1681	74.00	61808	111.00	236	149.00	392
45.00	2980	75.00	183424	113.00	216	150.00	478
46.00	104	76.00	15930	115.00	509	153.00	250
47.00	3280	77.00	2492	116.00	1609	154.00	367
48.00	1702	78.00	1611	117.00	2447	155.00	1162
49.00	13100	79.00	12497	118.00	1658	157.00	885
50.00	67352	80.00	4435	119.00	2046	159.00	523
51.00	20408	81.00	12920	124.00	241	161.00	578
52.00	864	82.00	3052	128.00	1723	174.00	469952
55.00	851	83.00	359	129.00	802	175.00	36024
56.00	5152	87.00	16211	130.00	1690	176.00	461120
57.00	10265	88.00	15594	131.00	730	177.00	30824
58.00	419	91.00	1565	135.00	834	178.00	933
60.00	2639	92.00	11255	137.00	780		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JBFB18.D

Injection Date: 18-Mar-2014 09:48:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

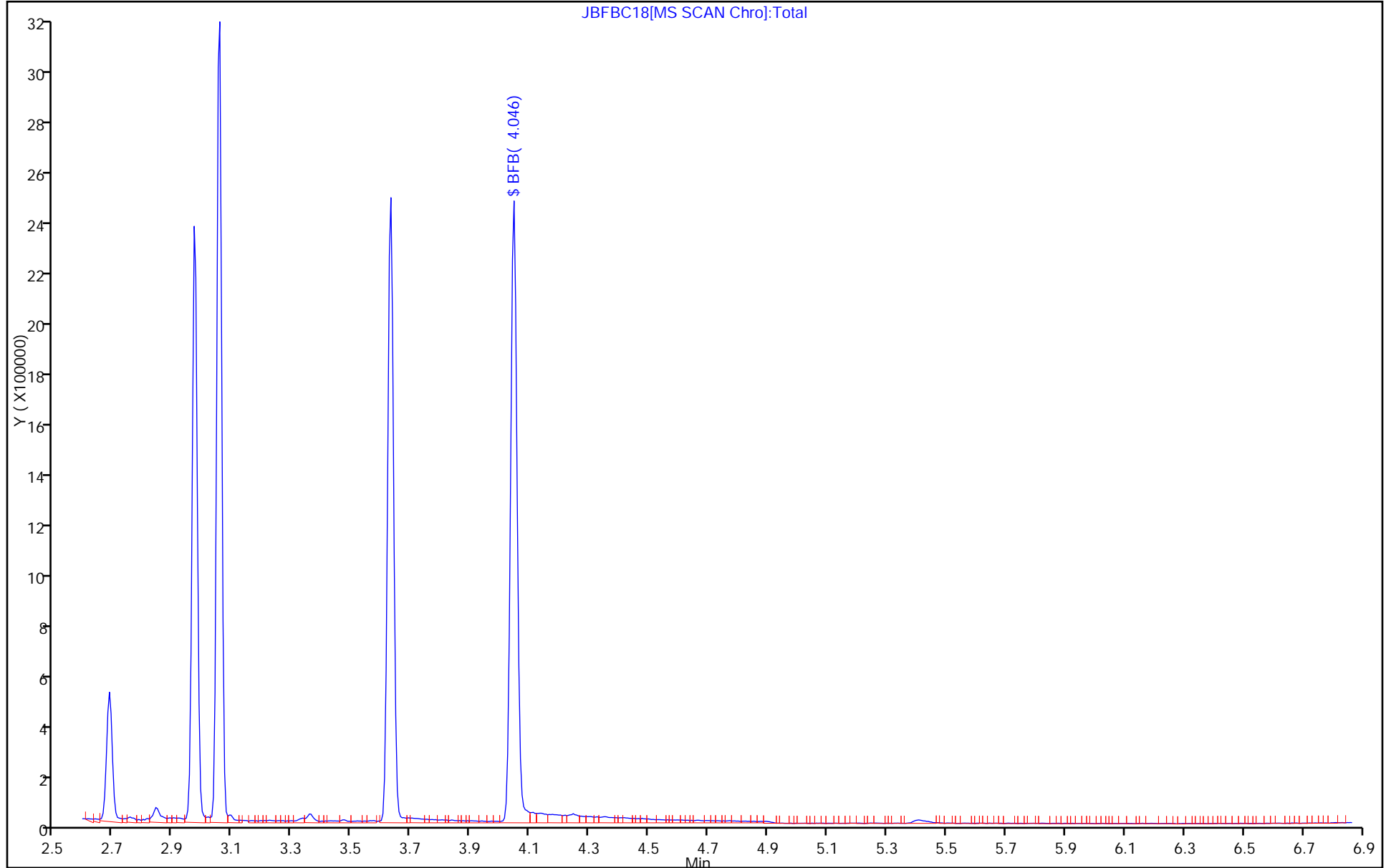
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 19-Mar-2014 10:38:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,bfb
 Misc. Info.: J031914,BFB,,140-0000532-001
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:16:56 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

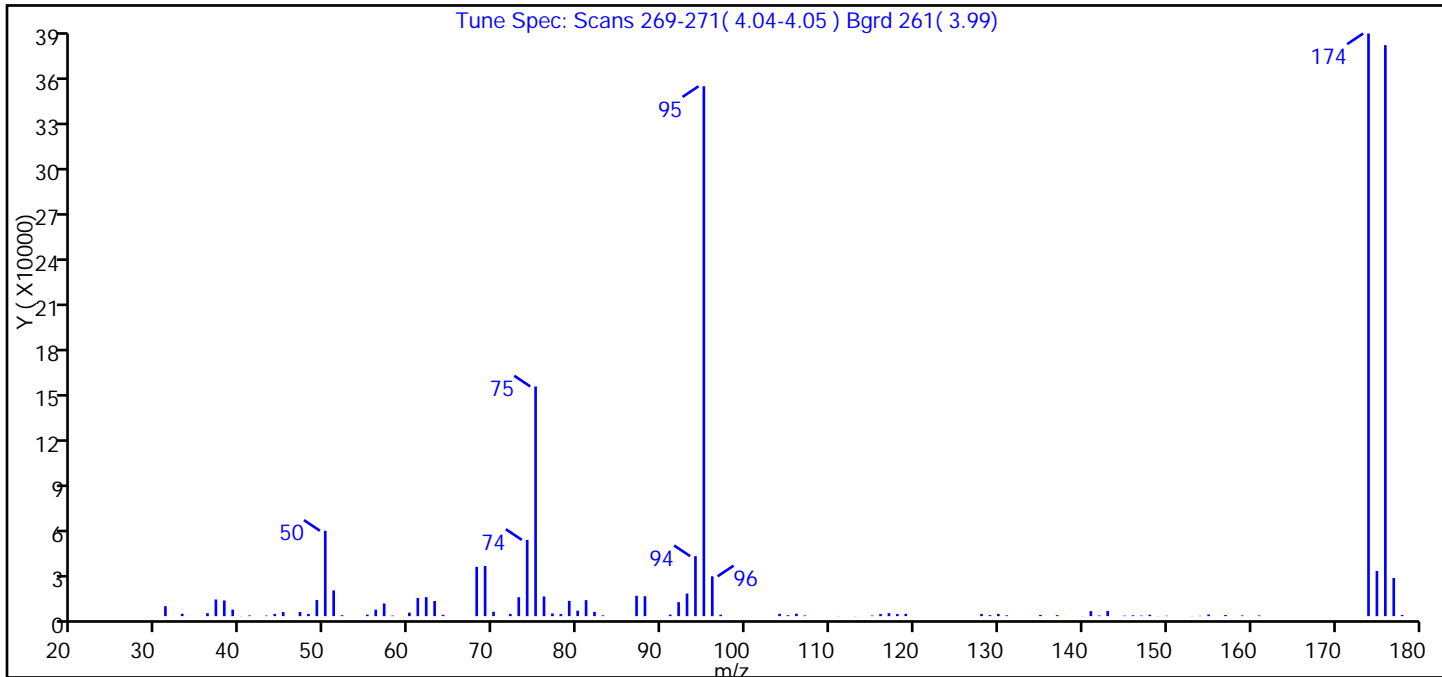
First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 17:16:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.042	4.042	0.0	0	588214	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D
 Injection Date: 19-Mar-2014 10:38:30 Instrument ID: MJ
 Lims ID: bfb
 Client ID:
 Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.10
75	30.00 - 60.00% of mass 95	43.30
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.00
175	5.00 - 9.00% of mass 174	8.50 (7.80)
176	95.00 - 101.00% of mass 174	107.80 (98.00)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D\MJ_TO15.rslt\spectra.d
Injection Date: 19-Mar-2014 10:38:30
Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 261(3.99)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	28	60.00	2308	92.00	9259	140.00	103
31.00	6625	61.00	12085	93.00	14998	141.00	3315
33.00	1591	62.00	12603	94.00	39800	142.00	446
36.00	1985	63.00	10044	95.00	351552	143.00	3427
37.00	11046	64.00	891	96.00	26408	145.00	348
38.00	10418	68.00	32688	97.00	943	146.00	565
39.00	4344	69.00	33256	104.00	1556	147.00	385
40.00	107	70.00	2928	105.00	622	148.00	932
41.00	481	72.00	1462	106.00	1649	149.00	107
43.00	372	73.00	12565	107.00	441	150.00	280
44.00	1478	74.00	50584	111.00	119	153.00	105
45.00	2716	75.00	152384	113.00	103	154.00	223
47.00	2742	76.00	13080	115.00	414	155.00	1085
48.00	1483	77.00	1770	116.00	1399	157.00	744
49.00	10707	78.00	1366	117.00	1989	159.00	453
50.00	56640	79.00	10160	118.00	1366	161.00	446
51.00	17096	80.00	3607	119.00	1556	174.00	386560
52.00	624	81.00	10605	128.00	1482	175.00	29968
54.00	2	82.00	2859	129.00	675	176.00	378816
55.00	995	83.00	551	130.00	1486	177.00	25304
56.00	4310	87.00	13476	131.00	559	178.00	747
57.00	8387	88.00	13219	135.00	777		
58.00	371	91.00	1033	137.00	652		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D

Injection Date: 19-Mar-2014 10:38:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

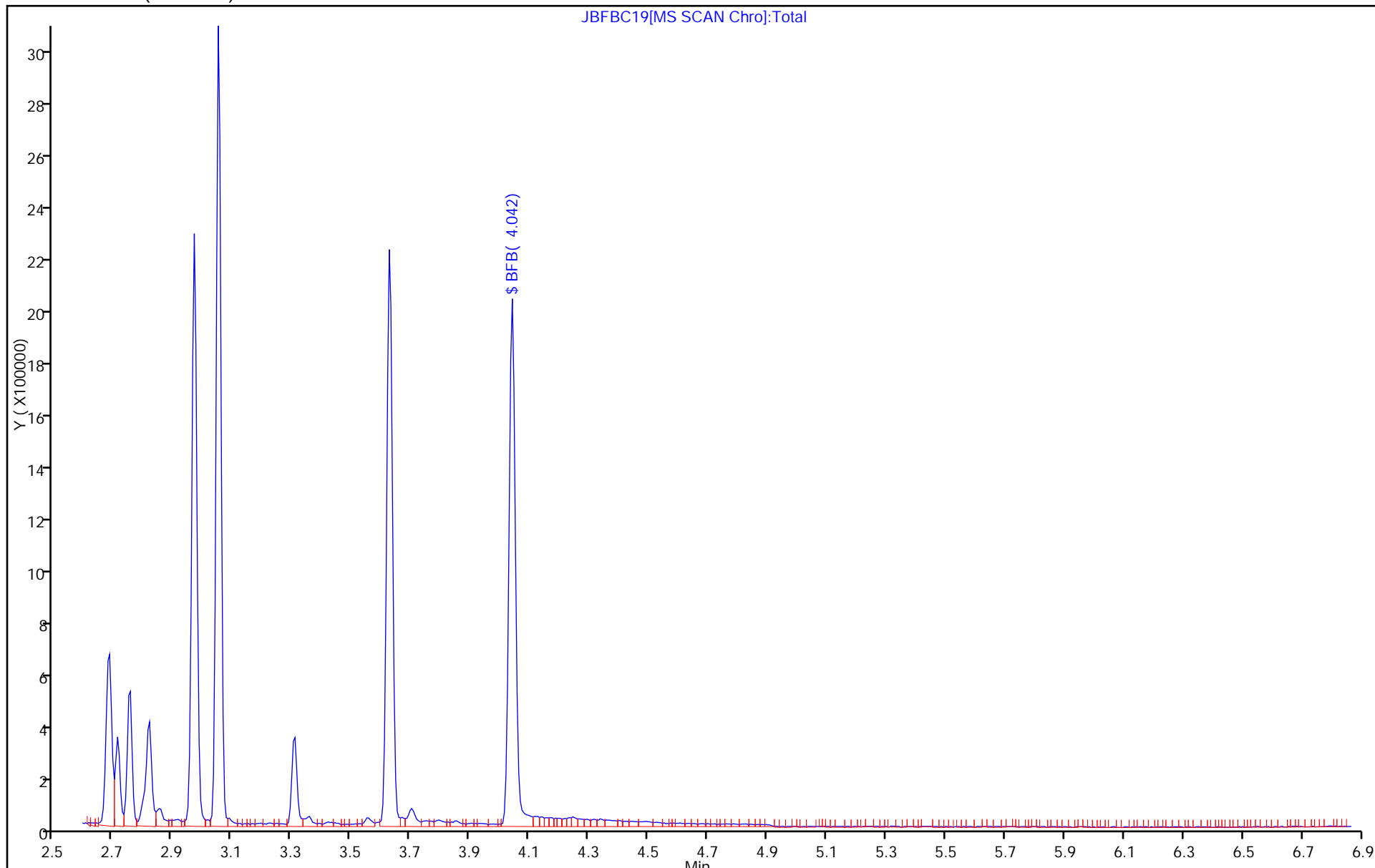
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Mar-2014 11:03:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,bfb
 Misc. Info.: J032114,BFB,,140-0000540-001
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 14:31:30 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

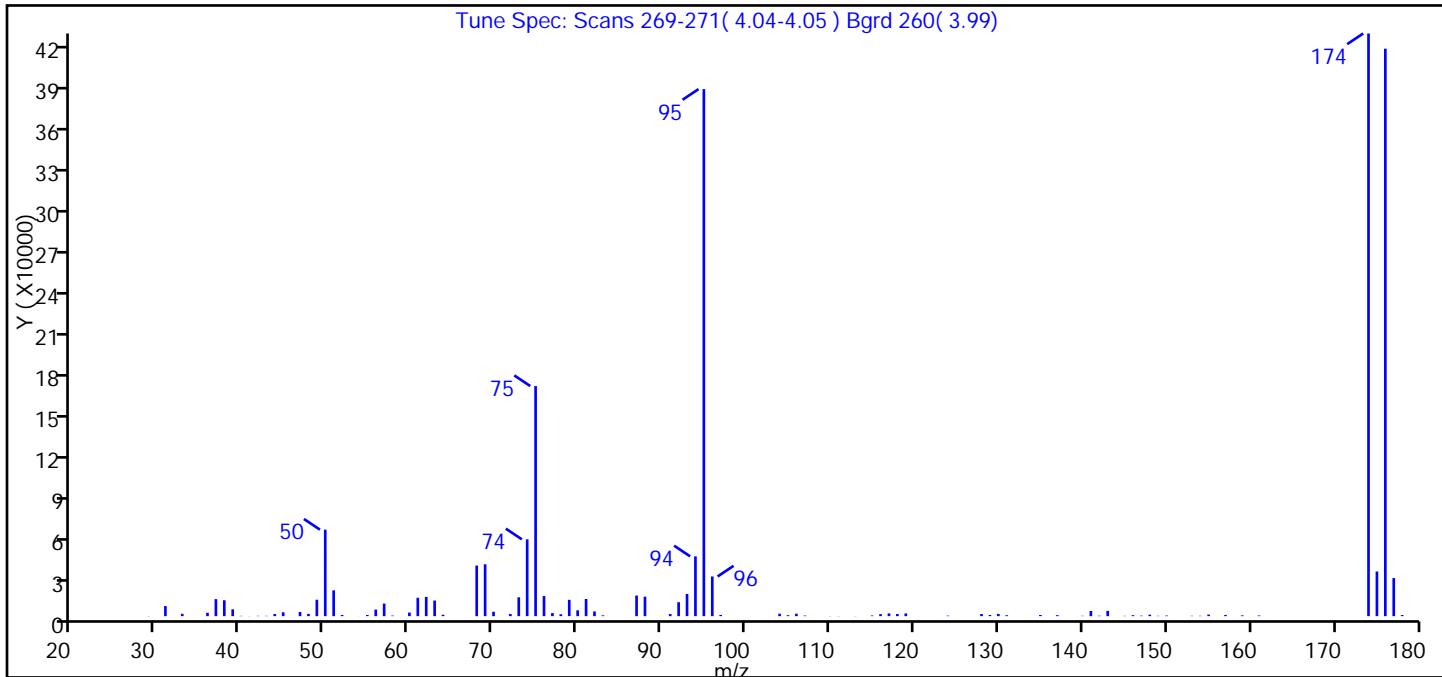
First Level Reviewer: tajh Date: 21-Mar-2014 14:31:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.041	4.041	0.0	0	652867	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D
 Injection Date: 21-Mar-2014 11:03:30 Instrument ID: MJ
 Lims ID: bfb
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.40
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.60
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	107.70 (97.40)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D\MJ_TO15.rslt\spectra.d
Injection Date: 21-Mar-2014 11:03:30
Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 260(3.99)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	104	60.00	2612	93.00	16239	140.00	255
31.00	7367	61.00	13435	94.00	43744	141.00	3757
33.00	1710	62.00	14091	95.00	385536	142.00	306
36.00	2425	63.00	11430	96.00	29008	143.00	3831
37.00	12450	64.00	1027	97.00	891	145.00	209
38.00	11645	68.00	37008	104.00	1777	146.00	704
39.00	5013	69.00	37944	105.00	666	147.00	359
40.00	212	70.00	3227	106.00	1795	148.00	1060
41.00	93	72.00	1550	107.00	431	149.00	240
42.00	230	73.00	13785	110.00	118	150.00	434
43.00	229	74.00	56192	111.00	114	153.00	266
44.00	1564	75.00	168320	113.00	117	154.00	255
45.00	2828	76.00	14713	115.00	480	155.00	1155
47.00	3090	77.00	2230	116.00	1472	157.00	857
48.00	1619	78.00	1379	117.00	2020	159.00	557
49.00	12011	79.00	11937	118.00	1552	161.00	485
50.00	63280	80.00	4253	119.00	1988	174.00	426240
51.00	18856	81.00	12542	124.00	367	175.00	32664
52.00	843	82.00	3463	128.00	1537	176.00	415104
54.00	43	83.00	600	129.00	808	177.00	27856
55.00	848	87.00	15073	130.00	1631	178.00	798
56.00	4820	88.00	14234	131.00	658		
57.00	9195	91.00	1521	135.00	833		
58.00	404	92.00	10199	137.00	711		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFB21.D

Injection Date: 21-Mar-2014 11:03:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

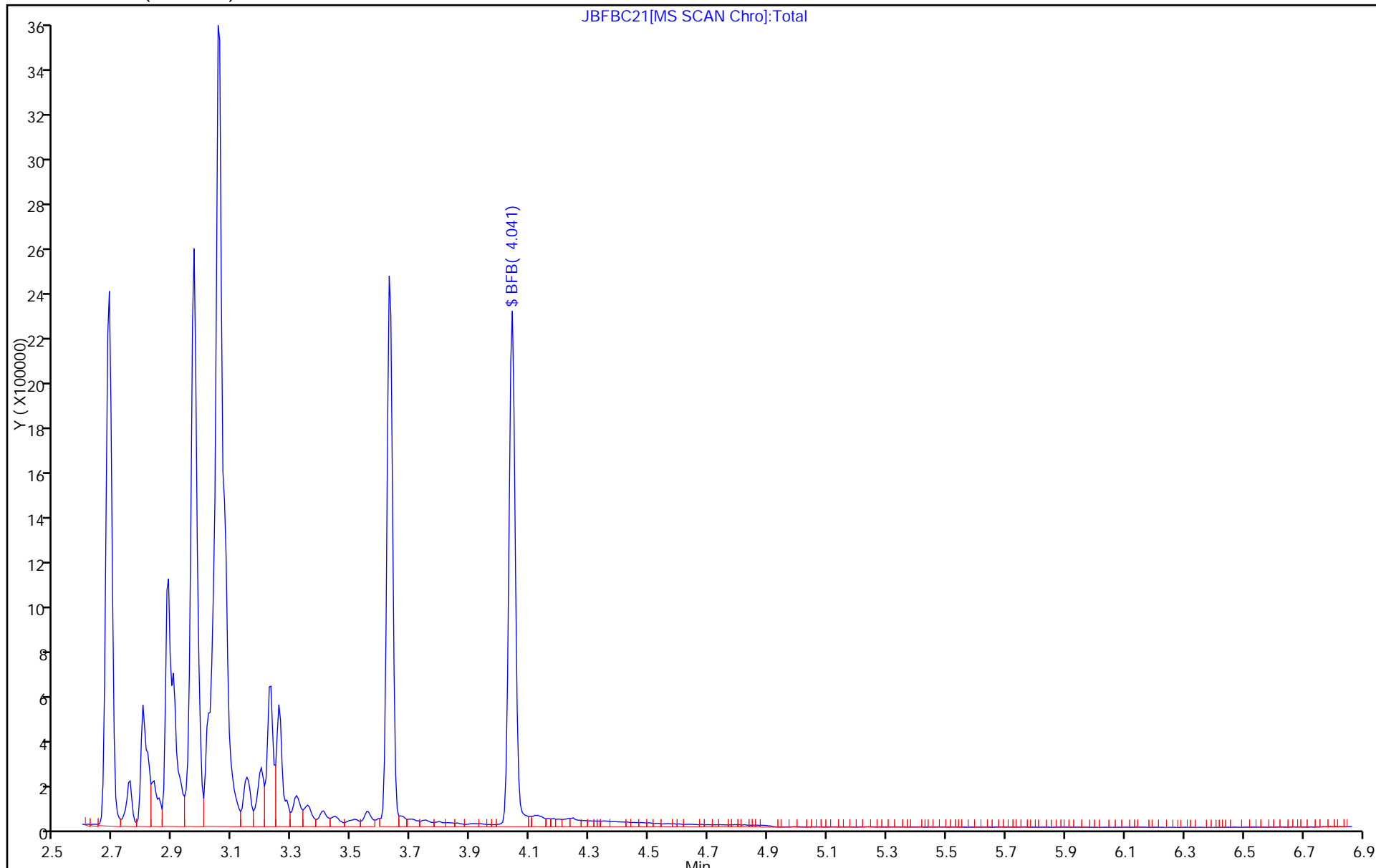
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-971/9
 Matrix: Air Lab File ID: MB200mL.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 16:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-971/9
 Matrix: Air Lab File ID: MB200mL.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 16:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-971/9
 Matrix: Air Lab File ID: MB200mL.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 16:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-971/9
 Matrix: Air Lab File ID: MB200mL.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 03/18/2014 16:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-971/9
 Matrix: Air Lab File ID: MB200mL.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 16:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-971/9
 Matrix: Air Lab File ID: MB200mL.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/18/2014 16:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\MB200mL.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 18-Mar-2014 16:42:30 ALS Bottle#: 16 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: MB200mL
 Misc. Info.: J031814,TO15,,140-0000527-009
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 17:30:31 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 17:30:31

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.388	-0.006	89	377290	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.539	-0.005	94	1683690	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	86	1364337	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	91	943499	3.91	
140 Tert-amyl methyl ether	73	11.534	11.469	0.065	5	18390	NR	
T 136 Methanol TIC	31	4.288	4.398	-0.112	22	109	0.001156	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\MB200mL.D

Injection Date: 18-Mar-2014 16:42:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: mb

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

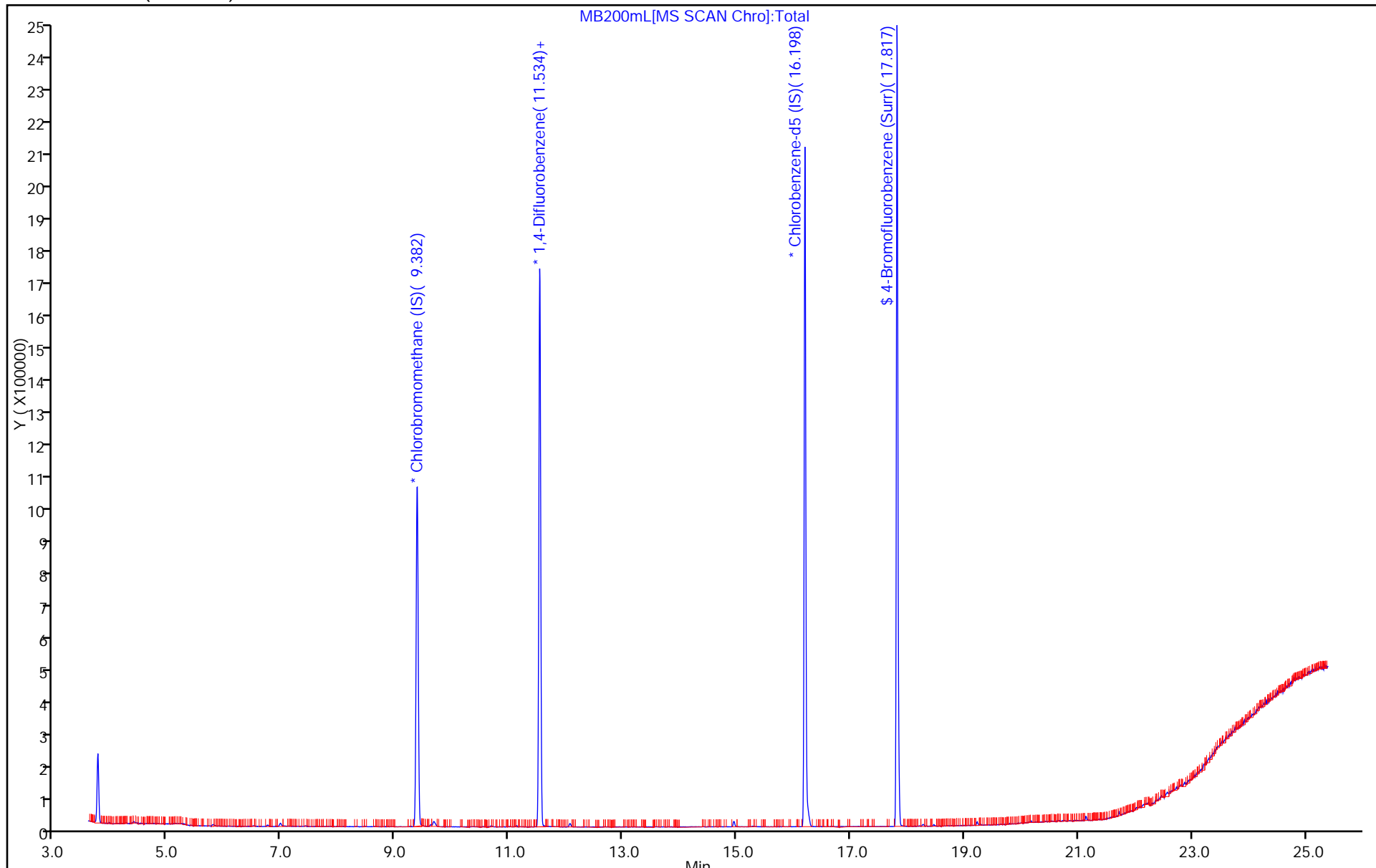
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Laboratories
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\140-1071-a-10-MB.d
 Lims ID: MB
 Client ID: 09635
 Sample Type: MB
 Inject. Date: 19-Mar-2014 13:17:30 ALS Bottle#: 16 Worklist Smp#: 1004
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09635 1L lotchk
 Misc. Info.: J031914,TO15,,140-0000532-004
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 17:19:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.385	-0.003	89	389292	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1813244	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1451706	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	959597	3.74	
140 Tert-amyl methyl ether	73	11.534	11.467	0.067	1	19766	NR	
A 118 C6 Range	1	8.638	8.562 -	8.702	0	5644	0.004966	
A 122 Toluene Range	1	14.253	14.223 -	14.283	0	13695	0.0209	
A 123 C8 Range	1	14.931	14.877 -	14.985	0	43513	0.0428	
T 136 Methanol TIC	31	4.374	4.397	-0.026	89	5413	0.0556	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\140-1071-a-10-MB.d

Injection Date: 19-Mar-2014 13:17:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: MB

Worklist Smp#: 1004

Client ID: 09635

Purge Vol: 500.000 mL

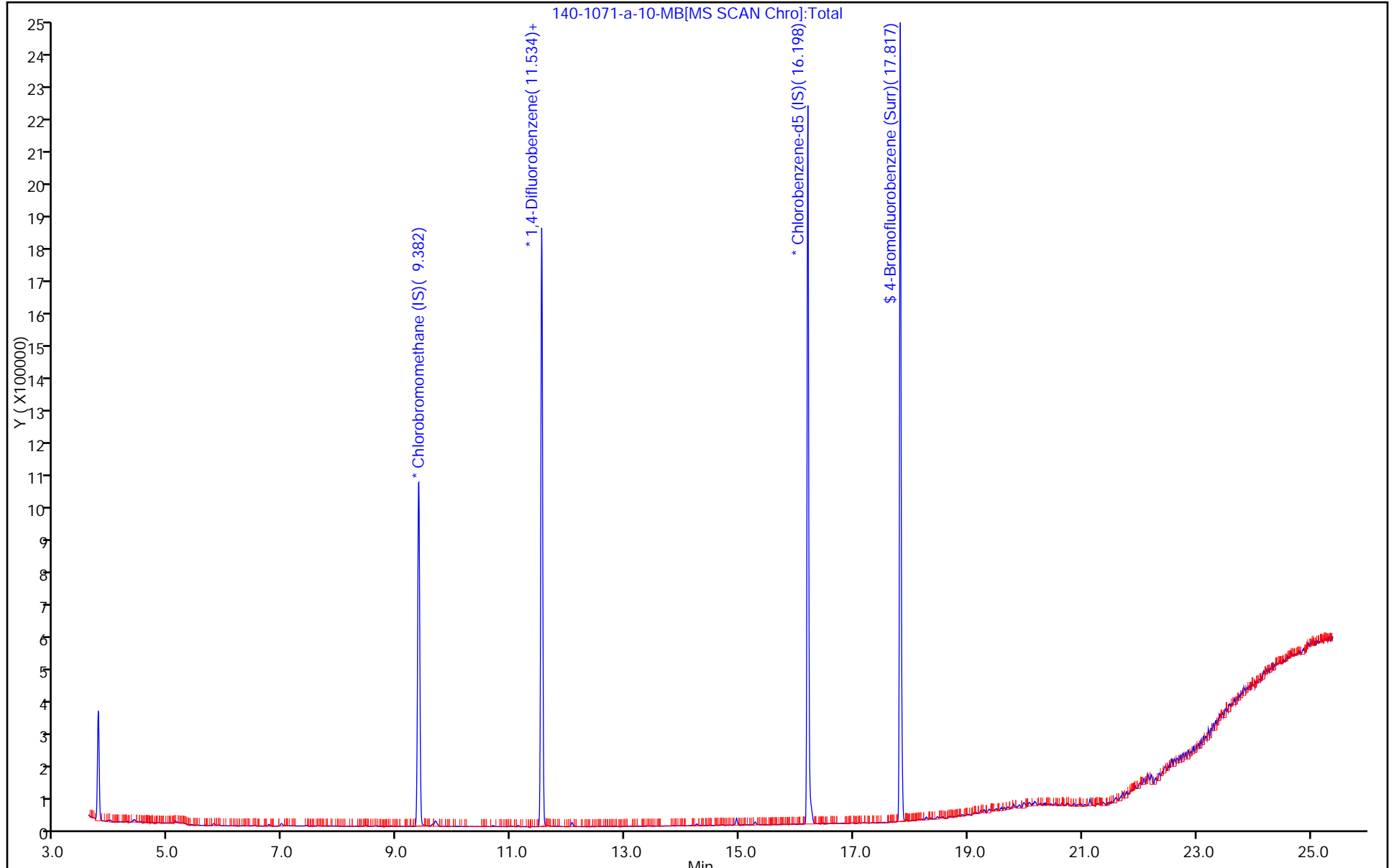
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Mar-2014 14:39:30 ALS Bottle#: 16 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 200ML BLANK
 Misc. Info.: J032114,TO15,,140-0000540-005
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 08:37:56 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 08:37:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.374	9.379	-0.005	90	375868	4.00	
* 2 1,4-Difluorobenzene	114	11.525	11.530	-0.005	94	1755903	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.189	16.194	-0.005	87	1341257	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	887215	3.74	
140 Tert-amyl methyl ether	73	11.525	11.466	0.059	1	19915	NR	
T 136 Methanol TIC	31	4.381	4.396	-0.019	82	3059	0.0326	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D

Injection Date: 21-Mar-2014 14:39:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: mb

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

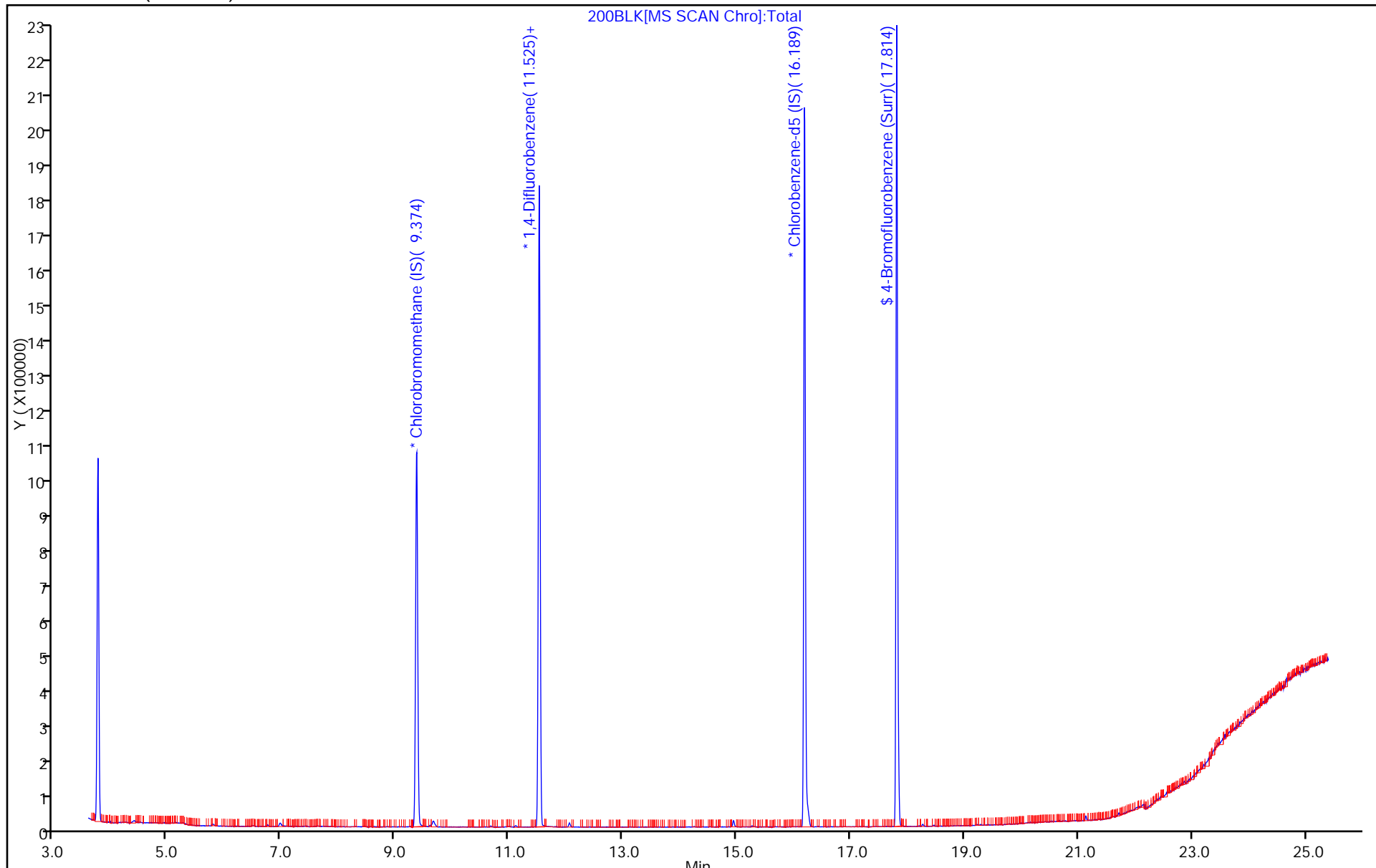
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-990/1005
 Matrix: Air Lab File ID: 140-1086-a-9-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-990/1005
 Matrix: Air Lab File ID: 140-1086-a-9-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-990/1005
 Matrix: Air Lab File ID: 140-1086-a-9-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-990/1005
 Matrix: Air Lab File ID: 140-1086-a-9-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-990/1005
 Matrix: Air Lab File ID: 140-1086-a-9-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-990/1005
 Matrix: Air Lab File ID: 140-1086-a-9-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\140-1086-a-9-MB.d
 Lims ID: MB
 Client ID: 10758
 Sample Type: MB
 Inject. Date: 24-Mar-2014 11:45:30 ALS Bottle#: 2 Worklist Smp#: 1005
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10758
 Misc. Info.: E032414,TO155,,140-0000541-005
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 13:17:14 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 13:18:16

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.329	8.340	-0.011	69	303416	4.00	
* 2 1,4-Difluorobenzene	114	10.567	10.572	-0.005	94	1490673	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	89	1270564	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1064787	3.83	
A 118 C6 Range	1	7.590	7.531 -	7.649	0	2723	0.002669	
A 119 Toluene Range	1	13.387	13.344 -	13.452	0	550	0.000618	
A 120 C8 Range	1	14.091	14.056 -	14.142	0	764	0.000717	
T 136 Methanol TIC	31	4.312	3.997	0.312	77	1359	0.0179	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\140-1086-a-9-MB.d

Injection Date: 24-Mar-2014 11:45:30

Instrument ID: ME

Operator ID: 7126

Lims ID: MB

Worklist Smp#: 1005

Client ID: 10758

Purge Vol: 500.000 mL

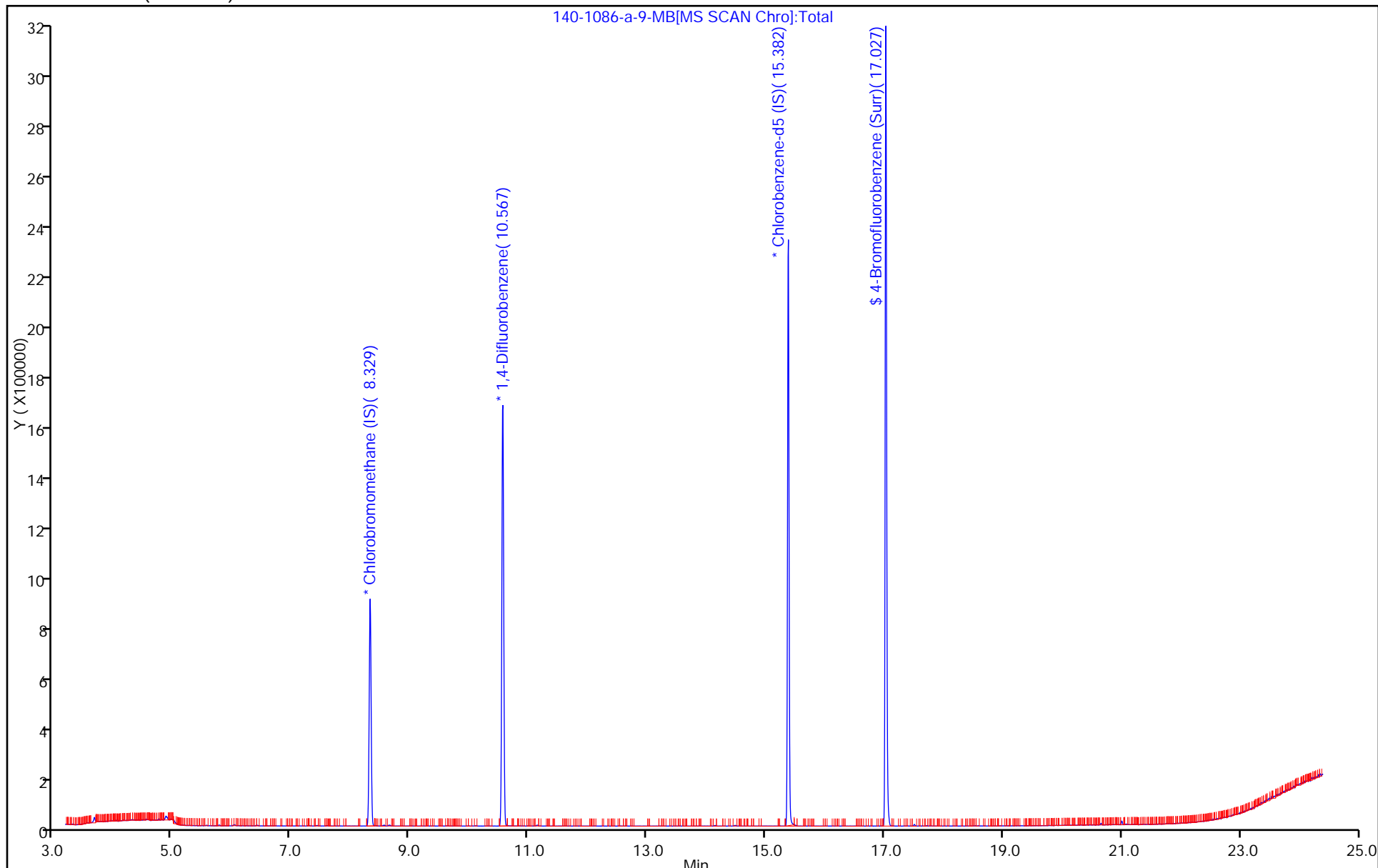
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-971/1002
 Matrix: Air Lab File ID: JCCVC18-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/18/2014 10:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	1.99		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.21		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.24		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.08		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.99		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.29		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.92		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.20		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.08		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.13		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.97		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.18		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.99		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.20		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.05		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.95		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.93		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.97		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	2.08		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	2.03		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.96		0.40	0.080
591-78-6	2-Hexanone	100.20	2.10		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.91		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.86		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.25		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.02		0.20	0.018
67-64-1	Acetone	58.08	1.26	J	2.0	0.56
71-43-2	Benzene	78.11	2.08		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.09		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.18		0.080	0.018
75-25-2	Bromoform	252.75	2.07		0.080	0.019
74-83-9	Bromomethane	94.94	1.92		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.01		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-971/1002
 Matrix: Air Lab File ID: JCCVC18-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/18/2014 10:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.13		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.03		0.080	0.020
75-00-3	Chloroethane	64.52	1.93		0.080	0.014
67-66-3	Chloroform	119.38	2.02		0.080	0.015
74-87-3	Chloromethane	50.49	1.97		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	2.08		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.98		0.080	0.030
110-82-7	Cyclohexane	84.16	2.07		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.20		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.05		0.080	0.027
64-17-5	Ethanol	46.07	9.88		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.22		0.080	0.027
142-82-5	Heptane	100.21	2.11		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.71		0.40	0.031
110-54-3	Hexane	86.17	1.78		0.20	0.013
496-11-7	Indane	118.18	2.20		0.080	0.080
95-13-6	Indene	116.16	2.28		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.89		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.09		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.12		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.28		0.080	0.048
91-20-3	Naphthalene	128.17	1.93		0.20	0.036
95-47-6	o-Xylene	106.17	2.19		0.080	0.024
115-07-1	Propene	42.08	1.90		0.20	0.031
100-42-5	Styrene	104.15	2.29		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.17		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	2.01		0.40	0.025
110-02-1	Thiophene	84.14	2.13		0.080	0.080
108-88-3	Toluene	92.14	2.16		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.88		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.12		0.080	0.019
79-01-6	Trichloroethene	131.39	2.14		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.03		0.080	0.0096
75-01-4	Vinyl chloride	62.50	1.99		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-971/1002
 Matrix: Air Lab File ID: JCCVC18-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/18/2014 10:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 971 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 18-Mar-2014 10:16:30 ALS Bottle#: 8 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031814,TO15,,140-0000527-002
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140317-527.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 13:34:00 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 13:34:00

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.388	0.0	91	363327	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.539	0.0	92	1539618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.198	0.0	87	1280996	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.817	0.0	89	899094	3.97	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	74454	1.99	
7 Propene	41	3.971	3.971	0.0	99	211889	1.90	
8 Dichlorodifluoromethane	85	4.030	4.030	0.0	100	739325	2.05	
9 Chloromethane	52	4.229	4.229	0.0	98	80436	1.97	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.234	0.0	91	578020	2.13	
11 Acetaldehyde	44	4.396	4.396	0.0	99	282339	7.88	
12 Vinyl chloride	62	4.417	4.417	0.0	99	268105	1.99	
14 Butadiene	54	4.514	4.514	0.0	67	191679	2.05	
13 Butane	43	4.514	4.514	0.0	85	369310	1.93	
15 Bromomethane	94	4.869	4.869	0.0	99	262661	1.92	
16 Chloroethane	64	5.025	5.025	0.0	99	119824	1.93	
17 Ethanol	31	5.116	5.116	0.0	95	288164	9.88	
18 Vinyl bromide	106	5.353	5.353	0.0	97	244913	2.10	
19 2-Methylbutane	43	5.407	5.407	0.0	92	295057	1.91	
20 Trichlorofluoromethane	101	5.644	5.644	0.0	97	640547	2.03	
21 Acrolein	56	5.644	5.644	0.0	66	45177	1.52	
22 Acetonitrile	40	5.713	5.713	0.0	98	60382	1.84	
23 Acetone	58	5.767	5.767	0.0	91	65004	1.26	
24 Isopropyl alcohol	45	5.848	5.848	0.0	97	257527	1.89	
25 Pentane	72	5.880	5.880	0.0	97	38620	1.98	
26 Ethyl ether	31	6.047	6.047	0.0	93	176110	1.85	
27 1,1-Dichloroethene	96	6.391	6.391	0.0	97	233321	2.29	
28 2-Methyl-2-propanol	59	6.472	6.472	0.0	95	284922	1.70	
29 Acrylonitrile	53	6.488	6.488	0.0	93	102541	1.90	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.580	6.580	0.0	95	490898	2.24	
31 Methylene Chloride	84	6.757	6.757	0.0	95	205616	2.12	
32 3-Chloro-1-propene	39	6.773	6.773	0.0	92	177385	1.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.935	6.935	0.0	100	685693	2.01	
34 trans-1,2-Dichloroethene	96	7.602	7.602	0.0	98	230780	1.88	
35 2-Methylpentane	43	7.623	7.623	0.0	94	522840	1.86	
36 Methyl tert-butyl ether	73	7.725	7.725	0.0	96	386874	2.09	
37 1,1-Dichloroethane	63	8.037	8.037	0.0	100	382119	1.99	
38 Vinyl acetate	43	8.134	8.134	0.0	100	328023	1.95	
39 2-Butanone (MEK)	72	8.586	8.586	0.0	99	67540	1.96	
40 Hexane	56	8.635	8.635	0.0	90	173661	1.78	
41 cis-1,2-Dichloroethene	96	9.043	9.043	0.0	95	217993	2.08	
42 Ethyl acetate	43	9.216	9.216	0.0	98	309230	2.06	
43 Chloroform	83	9.393	9.393	0.0	96	427552	2.02	
44 Tetrahydrofuran	42	9.802	9.802	0.0	94	169081	2.01	
45 1,1,1-Trichloroethane	97	10.442	10.442	0.0	96	439761	1.99	
46 1,2-Dichloroethane	62	10.539	10.539	0.0	96	259801	2.18	
47 n-Butanol	31	10.942	10.942	0.0	86	61685	1.83	
48 Benzene	78	11.023	11.023	0.0	97	550283	2.08	
49 Cyclohexane	69	11.034	11.034	0.0	92	107676	2.07	
50 Carbon tetrachloride	117	11.050	11.050	0.0	97	464463	2.13	
51 2,3-Dimethylpentane	71	11.136	11.136	0.0	91	126213	2.03	
52 Thiophene	84	11.292	11.292	0.0	96	346965	2.13	
53 Isooctane	57	11.760	11.760	0.0	98	938606	2.08	
54 n-Heptane	71	12.120	12.120	0.0	93	196847	2.11	
55 1,2-Dichloropropane	63	12.206	12.206	0.0	87	177841	1.99	
56 Trichloroethene	130	12.244	12.244	0.0	93	274757	2.14	
57 Dibromomethane	93	12.325	12.325	0.0	92	241107	2.05	
59 Dichlorobromomethane	83	12.465	12.465	0.0	99	406186	2.18	
58 1,4-Dioxane	88	12.470	12.470	0.0	88	63123	1.97	
60 Methyl methacrylate	41	12.540	12.540	0.0	91	175009	2.18	
61 Methylcyclohexane	83	13.008	13.008	0.0	96	362434	2.04	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.368	0.0	98	325315	2.02	
63 cis-1,3-Dichloropropene	75	13.438	13.438	0.0	95	251087	1.98	
64 trans-1,3-Dichloropropene	75	14.116	14.116	0.0	99	225457	2.12	
65 Toluene	91	14.256	14.256	0.0	93	514315	2.16	
66 1,1,2-Trichloroethane	83	14.321	14.321	0.0	97	156606	2.08	
67 2-Methylthiophene	97	14.407	14.407	0.0	98	442293	2.07	
68 3-Methylthiophene	97	14.600	14.600	0.0	99	453583	2.12	
69 2-Hexanone	58	14.681	14.681	0.0	93	163752	2.10	
70 n-Octane	85	14.923	14.923	0.0	94	193649	2.22	
71 Chlorodibromomethane	129	15.020	15.020	0.0	96	365933	2.20	
72 Ethylene Dibromide	107	15.310	15.310	0.0	98	268810	2.08	
73 Tetrachloroethene	129	15.386	15.386	0.0	93	240416	2.17	
75 Chlorobenzene	112	16.246	16.246	0.0	91	412961	2.03	
74 2,3-Dimethylheptane	43	16.252	16.252	0.0	95	583907	2.23	
76 Ethylbenzene	91	16.532	16.532	0.0	98	581730	2.22	
77 2-Ethylthiophene	97	16.628	16.628	0.0	98	445183	2.16	
78 m-Xylene & p-Xylene	91	16.688	16.688	0.0	100	906341	4.28	
79 n-Nonane	57	17.091	17.091	0.0	92	337288	2.05	
81 Bromoform	173	17.145	17.145	0.0	94	271427	2.07	
80 Styrene	104	17.150	17.150	0.0	98	333418	2.29	
82 o-Xylene	91	17.215	17.215	0.0	96	470942	2.19	
83 1,1,2,2-Tetrachloroethane	83	17.527	17.527	0.0	99	387345	2.21	
84 1,2,3-Trichloropropane	110	17.683	17.683	0.0	97	93583	2.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.785	17.785	0.0	97	657951	2.15	
86 N-Propylbenzene	120	18.301	18.301	0.0	98	177878	2.20	
87 2-Chlorotoluene	126	18.350	18.350	0.0	97	174479	2.07	
88 4-Ethyltoluene	105	18.447	18.447	0.0	98	640634	2.25	
89 1,3,5-Trimethylbenzene	120	18.517	18.517	0.0	92	315099	2.20	
90 Alpha Methyl Styrene	118	18.737	18.737	0.0	84	235456	2.29	
91 n-Decane	57	18.786	18.786	0.0	89	364564	2.08	
92 tert-Butylbenzene	119	18.931	18.931	0.0	88	599505	2.14	
93 1,2,4-Trimethylbenzene	105	18.942	18.942	0.0	94	548295	2.20	
94 sec-Butylbenzene	105	19.189	19.189	0.0	98	799931	2.19	
95 1,3-Dichlorobenzene	146	19.211	19.211	0.0	99	318747	1.95	
96 Benzyl chloride	91	19.280	19.280	0.0	98	388432	2.09	
97 1,4-Dichlorobenzene	146	19.297	19.297	0.0	93	294368	1.93	
98 4-Isopropyltoluene	119	19.345	19.345	0.0	88	639055	2.18	
99 1,2,3-Trimethylbenzene	105	19.404	19.404	0.0	98	456765	2.25	
100 Butylcyclohexane	83	19.453	19.453	0.0	94	472603	2.04	
101 2,3-Dihydroindene	117	19.646	19.646	0.0	89	500227	2.20	
102 1,2-Dichlorobenzene	146	19.646	19.646	0.0	78	314494	1.97	
103 n-Butylbenzene	91	19.770	19.770	0.0	96	562102	2.07	
104 Indene	116	19.775	19.775	0.0	86	453255	2.28	
105 Undecane	57	20.066	20.066	0.0	96	365271	2.06	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.130	20.130	0.0	97	565787	2.06	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.523	0.0	97	597770	2.17	
107 1,2,3,5-Tetramethylbenzene	119	20.577	20.577	0.0	95	366968	2.04	
109 1,2,3,4-Tetramethylbenzene	119	20.991	20.991	0.0	96	471932	2.12	
110 Dodecane	57	21.142	21.142	0.0	95	359633	1.96	
111 1,2,4-Trichlorobenzene	180	21.373	21.373	0.0	94	136853	1.92	
112 Naphthalene	128	21.518	21.518	0.0	99	389180	1.93	
113 Benzo(b)thiophene	134	21.626	21.626	0.0	99	255180	1.87	
114 Hexachlorobutadiene	225	21.723	21.723	0.0	84	248264	1.71	
115 1,2,3-Trichlorobenzene	180	21.793	21.793	0.0	95	172325	1.87	
116 2-Methylnaphthalene	142	22.444	22.444	0.0	98	169073	7.89	
117 1-Methylnaphthalene	142	22.573	22.573	0.0	97	179390	8.12	
139 Isopropyl ether	45	8.785	8.785	0.0	97	513963	NR	
142 Tert-butyl ethyl ether	59	9.474	9.474	0.0	96	458428	NR	
140 Tert-amyl methyl ether	73	11.469	11.469	0.0	93	431598	NR	
A 118 C6 Range	1	8.635	8.575 - 8.694		0	1986168	1.87	
A 122 Toluene Range	1	14.256	14.226 - 14.286		0	1236663	2.14	
A 123 C8 Range	1	14.915	14.869 - 14.988		0	1847293	2.06	
S 124 Xylenes, Total	100				0		6.47	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140317-527.b\JCCVC18-LCS.d

Injection Date: 18-Mar-2014 10:16:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

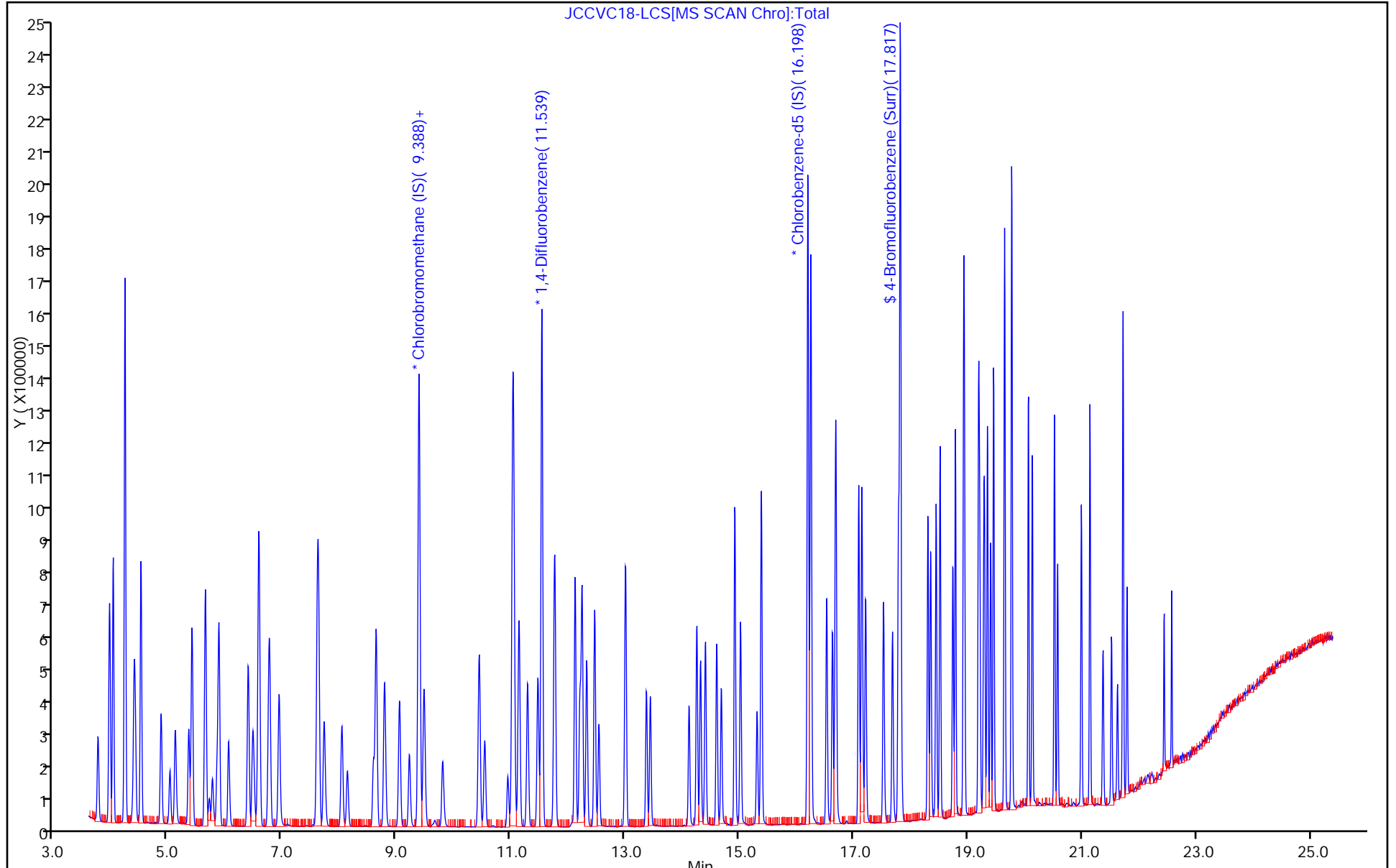
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-976/1002
 Matrix: Air Lab File ID: JCCVC19-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/19/2014 11:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.04		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.36		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.34		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.19		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.05		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.37		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.03		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.38		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.20		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.23		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.08		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.10		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	2.08		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.37		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.09		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.08		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.07		0.080	0.026
123-91-1	1,4-Dioxane	88.11	2.14		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	2.13		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	2.10		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	2.15		0.40	0.080
591-78-6	2-Hexanone	100.20	2.27		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.98		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.95		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.43		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.23		0.20	0.018
67-64-1	Acetone	58.08	1.42	J	2.0	0.56
71-43-2	Benzene	78.11	2.02		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.19		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.20		0.080	0.018
75-25-2	Bromoform	252.75	2.18		0.080	0.019
74-83-9	Bromomethane	94.94	1.97		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.06		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-976/1002
 Matrix: Air Lab File ID: JCCVC19-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/19/2014 11:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.15		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.12		0.080	0.020
75-00-3	Chloroethane	64.52	1.94		0.080	0.014
67-66-3	Chloroform	119.38	2.05		0.080	0.015
74-87-3	Chloromethane	50.49	2.05		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	2.15		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.07		0.080	0.030
110-82-7	Cyclohexane	84.16	2.16		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.18		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.16		0.080	0.027
64-17-5	Ethanol	46.07	10.6		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.41		0.080	0.027
142-82-5	Heptane	100.21	2.16		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.81		0.40	0.031
110-54-3	Hexane	86.17	1.84		0.20	0.013
496-11-7	Indane	118.18	2.35		0.080	0.080
95-13-6	Indene	116.16	2.42		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.99		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.26		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.20		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.65		0.080	0.048
91-20-3	Naphthalene	128.17	2.05		0.20	0.036
95-47-6	o-Xylene	106.17	2.36		0.080	0.024
115-07-1	Propene	42.08	2.03		0.20	0.031
100-42-5	Styrene	104.15	2.40		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.19		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	2.20		0.40	0.025
110-02-1	Thiophene	84.14	2.11		0.080	0.080
108-88-3	Toluene	92.14	2.29		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.96		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.25		0.080	0.019
79-01-6	Trichloroethene	131.39	2.21		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.10		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.05		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-976/1002
 Matrix: Air Lab File ID: JCCVC19-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/19/2014 11:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Mar-2014 11:06:30 ALS Bottle#: 9 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031914,TO15,,140-0000532-002
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 17:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.385	0.0	91	344423	4.00	
* 2 1,4-Difluorobenzene	114	11.542	11.542	0.0	93	1458024	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.201	16.201	0.0	86	1214604	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.820	0.0	91	840735	3.91	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	72746	2.05	
7 Propene	41	3.973	3.973	0.0	99	214420	2.03	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	736627	2.16	
9 Chloromethane	52	4.231	4.231	0.0	98	79325	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	575045	2.23	
11 Acetaldehyde	44	4.398	4.398	0.0	99	284056	8.36	
12 Vinyl chloride	62	4.420	4.420	0.0	99	261396	2.05	
14 Butadiene	54	4.516	4.516	0.0	91	185801	2.09	
13 Butane	43	4.516	4.516	0.0	89	360613	1.98	
15 Bromomethane	94	4.871	4.871	0.0	99	256321	1.97	
16 Chloroethane	64	5.022	5.022	0.0	99	113716	1.94	
17 Ethanol	31	5.119	5.119	0.0	95	293298	10.6	
18 Vinyl bromide	106	5.356	5.356	0.0	97	239065	2.16	
19 2-Methylbutane	43	5.409	5.409	0.0	92	289633	1.98	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	98	630457	2.10	
21 Acrolein	56	5.646	5.646	0.0	24	46081	1.64	
22 Acetonitrile	40	5.716	5.716	0.0	99	61423	1.98	
23 Acetone	58	5.770	5.770	0.0	91	69368	1.42	
24 Isopropyl alcohol	45	5.850	5.850	0.0	97	257858	1.99	
25 Pentane	72	5.883	5.883	0.0	97	37549	2.03	
26 Ethyl ether	31	6.050	6.050	0.0	93	179592	1.99	
27 1,1-Dichloroethene	96	6.394	6.394	0.0	97	229123	2.37	
28 2-Methyl-2-propanol	59	6.475	6.475	0.0	95	282847	1.78	
29 Acrylonitrile	53	6.491	6.491	0.0	94	106371	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.582	0.0	95	486321	2.34	
31 Methylene Chloride	84	6.754	6.754	0.0	95	202657	2.20	
32 3-Chloro-1-propene	39	6.776	6.776	0.0	92	172521	1.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.937	6.937	0.0	100	668634	2.06	
34 trans-1,2-Dichloroethene	96	7.604	7.604	0.0	99	228792	1.96	
35 2-Methylpentane	43	7.626	7.626	0.0	95	517789	1.95	
36 Methyl tert-butyl ether	73	7.728	7.728	0.0	96	397456	2.26	
37 1,1-Dichloroethane	63	8.035	8.035	0.0	100	372467	2.05	
38 Vinyl acetate	43	8.131	8.131	0.0	100	342229	2.15	
39 2-Butanone (MEK)	72	8.589	8.589	0.0	97	69988	2.15	
40 Hexane	56	8.637	8.637	0.0	90	170354	1.84	
41 cis-1,2-Dichloroethene	96	9.046	9.046	0.0	94	213783	2.15	
42 Ethyl acetate	43	9.218	9.218	0.0	97	323359	2.28	
43 Chloroform	83	9.396	9.396	0.0	97	411011	2.05	
44 Tetrahydrofuran	42	9.799	9.799	0.0	94	175791	2.20	
45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	96	426625	2.04	
46 1,2-Dichloroethane	62	10.536	10.536	0.0	95	237399	2.10	
47 n-Butanol	31	10.945	10.945	0.0	91	63087	1.98	
48 Benzene	78	11.026	11.026	0.0	96	504745	2.02	
49 Cyclohexane	69	11.031	11.031	0.0	90	106529	2.16	
50 Carbon tetrachloride	117	11.047	11.047	0.0	94	444605	2.15	
51 2,3-Dimethylpentane	71	11.139	11.139	0.0	92	123790	2.10	
52 Thiophene	84	11.289	11.289	0.0	96	325316	2.11	
53 Isooctane	57	11.763	11.763	0.0	98	911737	2.13	
54 n-Heptane	71	12.123	12.123	0.0	92	191345	2.16	
55 1,2-Dichloropropane	63	12.204	12.204	0.0	89	175480	2.08	
56 Trichloroethene	130	12.241	12.241	0.0	93	268386	2.21	
57 Dibromomethane	93	12.322	12.322	0.0	92	232580	2.09	
59 Dichlorobromomethane	83	12.462	12.462	0.0	99	388005	2.20	
58 1,4-Dioxane	88	12.467	12.467	0.0	87	64853	2.14	
60 Methyl methacrylate	41	12.537	12.537	0.0	91	183229	2.42	
61 Methylcyclohexane	83	13.005	13.005	0.0	96	352698	2.09	
62 4-Methyl-2-pentanone (MIBK)	43	13.371	13.371	0.0	98	341467	2.23	
63 cis-1,3-Dichloropropene	75	13.441	13.441	0.0	95	248049	2.07	
64 trans-1,3-Dichloropropene	75	14.119	14.119	0.0	99	226691	2.25	
65 Toluene	91	14.253	14.253	0.0	93	515114	2.29	
66 1,1,2-Trichloroethane	83	14.318	14.318	0.0	97	156049	2.19	
67 2-Methylthiophene	97	14.404	14.404	0.0	98	447018	2.21	
68 3-Methylthiophene	97	14.603	14.603	0.0	99	449786	2.21	
69 2-Hexanone	58	14.684	14.684	0.0	93	167394	2.27	
70 n-Octane	85	14.920	14.920	0.0	94	185975	2.25	
71 Chlorodibromomethane	129	15.022	15.022	0.0	96	343611	2.18	
72 Ethylene Dibromide	107	15.308	15.308	0.0	98	269243	2.20	
73 Tetrachloroethene	129	15.383	15.383	0.0	92	230370	2.19	
75 Chlorobenzene	112	16.249	16.249	0.0	92	408671	2.12	
74 2,3-Dimethylheptane	43	16.254	16.254	0.0	95	534471	2.15	
76 Ethylbenzene	91	16.529	16.529	0.0	98	600847	2.41	
77 2-Ethylthiophene	97	16.631	16.631	0.0	97	457666	2.35	
78 m-Xylene & p-Xylene	91	16.685	16.685	0.0	99	934156	4.65	
79 n-Nonane	57	17.088	17.088	0.0	93	330066	2.11	
81 Bromoform	173	17.142	17.142	0.0	94	271353	2.18	
80 Styrene	104	17.147	17.147	0.0	98	330409	2.40	
82 o-Xylene	91	17.212	17.212	0.0	96	480233	2.36	
83 1,1,2,2-Tetrachloroethane	83	17.524	17.524	0.0	99	392126	2.36	
84 1,2,3-Trichloropropane	110	17.680	17.680	0.0	97	95453	2.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.788	17.788	0.0	97	678172	2.34	
86 N-Propylbenzene	120	18.304	18.304	0.0	98	181789	2.38	
87 2-Chlorotoluene	126	18.352	18.352	0.0	97	177346	2.22	
88 4-Ethyltoluene	105	18.444	18.444	0.0	98	658282	2.43	
89 1,3,5-Trimethylbenzene	120	18.514	18.514	0.0	92	322460	2.37	
90 Alpha Methyl Styrene	118	18.740	18.740	0.0	85	238891	2.45	
91 n-Decane	57	18.783	18.783	0.0	89	365558	2.19	
92 tert-Butylbenzene	119	18.928	18.928	0.0	87	615274	2.32	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	94	560823	2.38	
94 sec-Butylbenzene	105	19.192	19.192	0.0	98	810809	2.34	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	322230	2.08	
96 Benzyl chloride	91	19.278	19.278	0.0	98	386598	2.19	
97 1,4-Dichlorobenzene	146	19.294	19.294	0.0	93	299344	2.07	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	645024	2.32	
99 1,2,3-Trimethylbenzene	105	19.401	19.401	0.0	98	466136	2.43	
100 Butylcyclohexane	83	19.455	19.455	0.0	93	469702	2.14	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	506967	2.35	
102 1,2-Dichlorobenzene	146	19.649	19.649	0.0	94	315972	2.08	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	563298	2.19	
104 Indene	116	19.773	19.773	0.0	86	454828	2.42	
105 Undecane	57	20.063	20.063	0.0	96	373317	2.23	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.133	20.133	0.0	97	567986	2.18	
108 1,2,4,5-Tetramethylbenzene	119	20.520	20.520	0.0	97	615899	2.36	
107 1,2,3,5-Tetramethylbenzene	119	20.574	20.574	0.0	95	374139	2.19	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	97	479119	2.27	
110 Dodecane	57	21.139	21.139	0.0	95	367147	2.11	
111 1,2,4-Trichlorobenzene	180	21.370	21.370	0.0	94	136711	2.03	
112 Naphthalene	128	21.521	21.521	0.0	99	390899	2.05	
113 Benzo(b)thiophene	134	21.623	21.623	0.0	99	255454	1.97	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	84	249776	1.81	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	95	172407	1.98	
116 2-Methylnaphthalene	142	22.441	22.441	0.0	99	171218	8.42	
117 1-Methylnaphthalene	142	22.575	22.575	0.0	96	182975	8.73	
139 Isopropyl ether	45	8.782	8.782	0.0	97	534408	NR	
142 Tert-butyl ethyl ether	59	9.476	9.476	0.0	96	472675	NR	
140 Tert-amyl methyl ether	73	11.467	11.467	0.0	93	444680	NR	
A 118 C6 Range	1	8.632	8.562 - 8.702		0	1680235	1.67	
A 122 Toluene Range	1	14.253	14.223 - 14.283		0	1227464	2.24	
A 123 C8 Range	1	14.921	14.877 - 14.985		0	1788334	2.10	
S 124 Xylenes, Total	100				0		7.01	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19-LCS.d

Injection Date: 19-Mar-2014 11:06:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

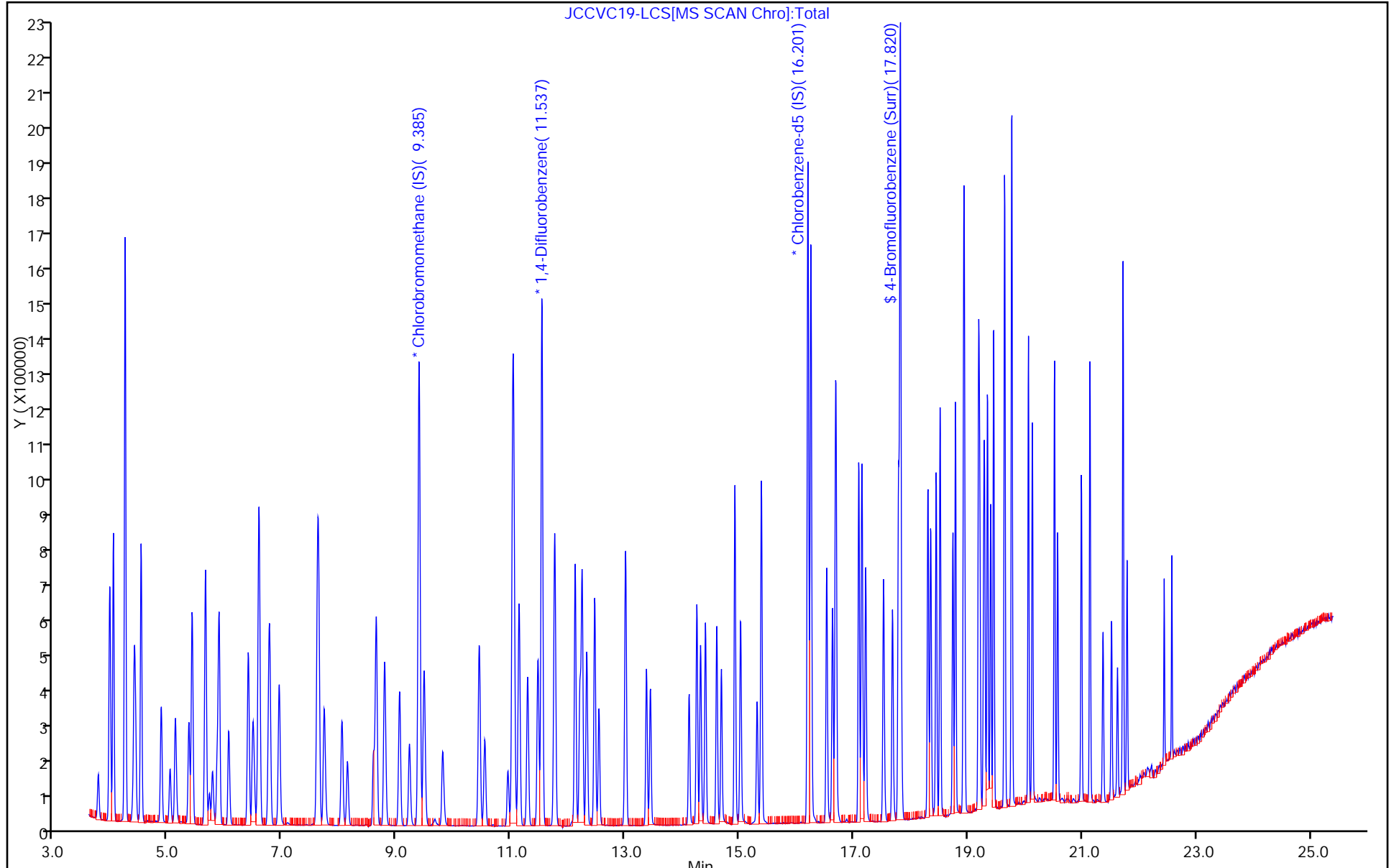
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-984/1002
 Matrix: Air Lab File ID: JCCVC21-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	1.82		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.73		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.26		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.68		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.83		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.30		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.52		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	1.72		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	1.69		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.18		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.51		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.83		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.66		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	1.69		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.09		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.49		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.47		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.58		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.70		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.69		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.71		0.40	0.080
591-78-6	2-Hexanone	100.20	1.75		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.98		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.89		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	1.75		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.74		0.20	0.018
67-64-1	Acetone	58.08	1.05	J	2.0	0.56
71-43-2	Benzene	78.11	1.76		0.080	0.022
100-44-7	Benzyl chloride	126.58	1.59		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.73		0.080	0.018
75-25-2	Bromoform	252.75	1.62		0.080	0.019
74-83-9	Bromomethane	94.94	1.98		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.05		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-984/1002
 Matrix: Air Lab File ID: JCCVC21-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	1.79		0.080	0.015
108-90-7	Chlorobenzene	112.56	1.64		0.080	0.020
75-00-3	Chloroethane	64.52	1.98		0.080	0.014
67-66-3	Chloroform	119.38	1.79		0.080	0.015
74-87-3	Chloromethane	50.49	2.04		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.89		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.65		0.080	0.030
110-82-7	Cyclohexane	84.16	1.85		0.20	0.016
124-48-1	Dibromochloromethane	208.29	1.74		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.10		0.080	0.027
64-17-5	Ethanol	46.07	9.32		0.80	0.80
100-41-4	Ethylbenzene	106.17	1.70		0.080	0.027
142-82-5	Heptane	100.21	1.69		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.43		0.40	0.031
110-54-3	Hexane	86.17	1.70		0.20	0.013
496-11-7	Indane	118.18	1.70		0.080	0.080
95-13-6	Indene	116.16	1.75		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.81		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.83		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.13		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	3.28		0.080	0.048
91-20-3	Naphthalene	128.17	1.50		0.20	0.036
95-47-6	o-Xylene	106.17	1.67		0.080	0.024
115-07-1	Propene	42.08	1.93		0.20	0.031
100-42-5	Styrene	104.15	1.64		0.080	0.023
127-18-4	Tetrachloroethene	165.83	1.70		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.73		0.40	0.025
110-02-1	Thiophene	84.14	1.72		0.080	0.080
108-88-3	Toluene	92.14	1.69		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.90		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.70		0.080	0.019
79-01-6	Trichloroethene	131.39	1.78		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.06		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.06		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-984/1002
 Matrix: Air Lab File ID: JCCVC21-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/21/2014 11:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J032114,TO15,,140-0000540-002
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 - 8.695		0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 - 14.277		0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 - 14.973		0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d

Injection Date: 21-Mar-2014 11:30:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

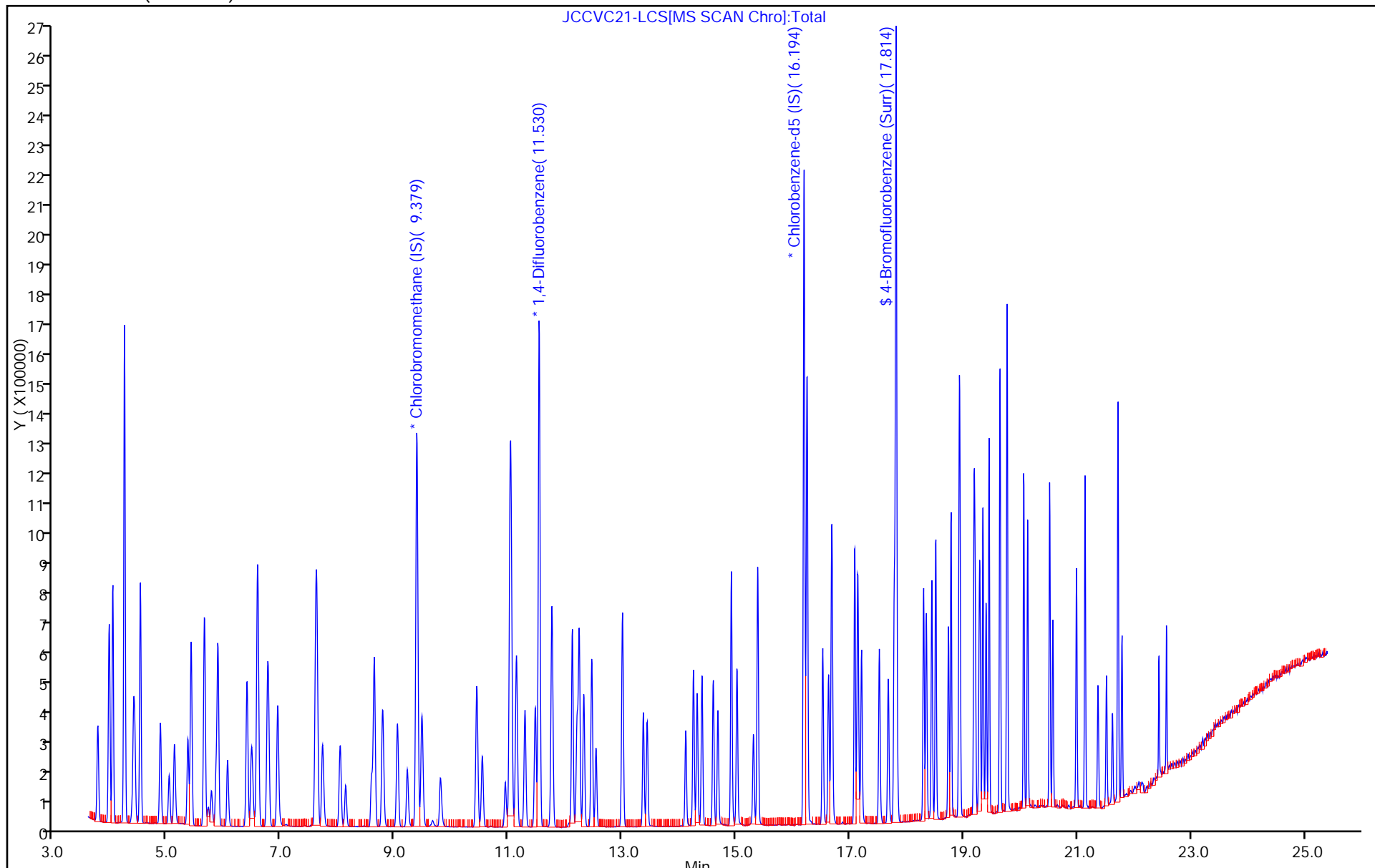
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-990/1002
 Matrix: Air Lab File ID: ECCVC24-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.11		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.04		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.19		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.87		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.73		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.02		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.49		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.50		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.06		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.59		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.52		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.93		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.65		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.33		0.080	0.026
106-99-0	1,3-Butadiene	54.09	1.93		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.50		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.47		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.49		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.42		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.63		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.47		0.40	0.080
591-78-6	2-Hexanone	100.20	1.41		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.88		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.24		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.31		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.15		0.20	0.018
67-64-1	Acetone	58.08	1.82	J	2.0	0.56
71-43-2	Benzene	78.11	1.80		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.40		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.99		0.080	0.018
75-25-2	Bromoform	252.75	2.76		0.080	0.019
74-83-9	Bromomethane	94.94	2.33		0.080	0.013
75-15-0	Carbon disulfide	76.14	1.83		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-990/1002
 Matrix: Air Lab File ID: ECCVC24-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.36		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.17		0.080	0.020
75-00-3	Chloroethane	64.52	2.15		0.080	0.014
67-66-3	Chloroform	119.38	1.95		0.080	0.015
74-87-3	Chloromethane	50.49	1.78		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.82		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.87		0.080	0.030
110-82-7	Cyclohexane	84.16	1.62		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.34		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.25		0.080	0.027
64-17-5	Ethanol	46.07	8.52		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.07		0.080	0.027
142-82-5	Heptane	100.21	1.64		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	2.94		0.40	0.031
110-54-3	Hexane	86.17	1.45		0.20	0.013
496-11-7	Indane	118.18	2.40		0.080	0.080
95-13-6	Indene	116.16	2.51		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.79		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.99		0.40	0.068
75-09-2	Methylene Chloride	84.93	1.92		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.51		0.080	0.048
91-20-3	Naphthalene	128.17	2.46		0.20	0.036
95-47-6	o-Xylene	106.17	2.15		0.080	0.024
115-07-1	Propene	42.08	1.34		0.20	0.031
100-42-5	Styrene	104.15	2.31		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.03		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.23		0.40	0.025
110-02-1	Thiophene	84.14	1.78		0.080	0.080
108-88-3	Toluene	92.14	1.95		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.93		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.86		0.080	0.019
79-01-6	Trichloroethene	131.39	1.91		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.60		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.12		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-990/1002
 Matrix: Air Lab File ID: ECCVC24-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/24/2014 09:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 990 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 24-Mar-2014 09:15:30 ALS Bottle#: 12 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS/LCS,,2,6,,CCV/LCS
 Misc. Info.: E032414,TO155,,140-0000541-002
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140321-541.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 13:17:05 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 13:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.340	0.0	75	302319	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.572	0.0	94	1502722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.382	0.0	87	1339330	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.027	17.027	0.0	90	1219287	4.16	
6 Chlorodifluoromethane	67	3.303	3.303	0.0	95	90969	2.15	
7 Propene	41	3.314	3.314	0.0	92	101850	1.34	
8 Dichlorodifluoromethane	85	3.357	3.357	0.0	99	753633	2.25	
9 Chloromethane	52	3.530	3.530	0.0	96	47614	1.78	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.535	3.535	0.0	91	521464	2.59	
11 Acetaldehyde	44	3.675	3.675	0.0	92	234684	9.27	
12 Vinyl chloride	62	3.691	3.691	0.0	99	218591	2.12	
13 Butadiene	54	3.772	3.772	0.0	73	137578	1.93	
14 Butane	43	3.772	3.772	0.0	81	263231	1.82	
15 Bromomethane	94	4.074	4.074	0.0	98	259228	2.33	
16 Chloroethane	64	4.209	4.209	0.0	96	112316	2.15	
17 Ethanol	31	4.312	4.312	0.0	98	257541	8.52	
18 Vinyl bromide	106	4.495	4.495	0.0	97	263900	2.62	
19 2-Methylbutane	43	4.533	4.533	0.0	85	199172	1.88	
21 Trichlorofluoromethane	101	4.743	4.743	0.0	99	870813	2.60	
20 Acrolein	56	4.765	4.765	0.0	84	67193	2.10	
22 Acetonitrile	40	4.835	4.835	0.0	97	58354	2.03	
23 Acetone	58	4.878	4.878	0.0	92	83541	1.82	
25 Pentane	72	4.959	4.959	0.0	97	44134	2.22	
24 Isopropyl alcohol	45	4.969	4.969	0.0	75	211079	1.79	
26 Ethyl ether	31	5.126	5.126	0.0	73	124607	1.62	
27 1,1-Dichloroethene	96	5.439	5.439	0.0	99	181988	2.02	
29 2-Methyl-2-propanol	59	5.552	5.552	0.0	94	268189	1.61	
28 Acrylonitrile	53	5.557	5.557	0.0	84	86059	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.606	5.606	0.0	96	455162	2.19	
31 Methylene Chloride	84	5.789	5.789	0.0	78	166048	1.92	
32 3-Chloro-1-propene	39	5.800	5.800	0.0	78	154057	1.51	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	5.940	5.940	0.0	100	571759	1.83	
34 trans-1,2-Dichloroethene	96	6.587	6.587	0.0	97	212634	1.93	
35 2-Methylpentane	43	6.598	6.598	0.0	81	246402	1.24	
36 Methyl tert-butyl ether	73	6.717	6.717	0.0	93	546944	1.99	
37 1,1-Dichloroethane	63	7.013	7.013	0.0	98	321812	1.73	
38 Vinyl acetate	43	7.126	7.126	0.0	98	262726	1.43	
39 2-Butanone (MEK)	72	7.579	7.579	0.0	84	72607	1.47	
40 Hexane	56	7.579	7.579	0.0	82	116726	1.45	
41 cis-1,2-Dichloroethene	96	8.005	8.005	0.0	92	187196	1.82	
42 Ethyl acetate	43	8.199	8.199	0.0	96	215021	1.34	
43 Chloroform	83	8.350	8.350	0.0	96	506090	1.95	
44 Tetrahydrofuran	42	8.749	8.749	0.0	68	95038	1.23	
45 1,1,1-Trichloroethane	97	9.375	9.375	0.0	94	619320	2.11	
46 1,2-Dichloroethane	62	9.499	9.499	0.0	98	355370	1.93	
47 n-Butanol	31	9.957	9.957	0.0	70	27582	0.9846	
49 Cyclohexane	69	9.979	9.979	0.0	89	92113	1.62	
48 Benzene	78	9.990	9.990	0.0	96	545808	1.80	
50 Carbon tetrachloride	117	10.011	10.011	0.0	99	685152	2.36	
51 2,3-Dimethylpentane	71	10.114	10.114	0.0	82	114996	1.63	
52 Thiophene	84	10.281	10.281	0.0	91	334787	1.78	
53 Isooctane	57	10.782	10.782	0.0	95	660939	1.42	
54 n-Heptane	71	11.176	11.176	0.0	74	187211	1.64	
55 1,2-Dichloropropane	63	11.273	11.273	0.0	74	160030	1.65	
56 Trichloroethene	130	11.305	11.305	0.0	95	285567	1.91	
57 Dibromomethane	93	11.397	11.397	0.0	95	278928	1.95	
58 Dichlorobromomethane	83	11.543	11.543	0.0	98	565101	1.99	
59 1,4-Dioxane	88	11.564	11.564	0.0	85	59927	1.49	
60 Methyl methacrylate	41	11.645	11.645	0.0	75	160355	1.41	
61 Methylcyclohexane	83	12.082	12.082	0.0	91	352676	1.65	
62 4-Methyl-2-pentanone (MIBK)	43	12.519	12.519	0.0	89	204969	1.15	
63 cis-1,3-Dichloropropene	75	12.573	12.573	0.0	94	321364	1.87	
64 trans-1,3-Dichloropropene	75	13.284	13.284	0.0	97	336371	1.86	
65 Toluene	91	13.398	13.398	0.0	94	700550	1.95	
66 1,1,2-Trichloroethane	83	13.484	13.484	0.0	96	197766	1.87	
67 2-Methylthiophene	97	13.554	13.554	0.0	97	625604	2.01	
68 3-Methylthiophene	97	13.759	13.759	0.0	98	640783	2.04	
69 2-Hexanone	58	13.872	13.872	0.0	95	119113	1.41	
70 n-Octane	85	14.093	14.093	0.0	70	240103	1.88	
71 Chlorodibromomethane	129	14.185	14.185	0.0	96	559077	2.34	
72 Ethylene Dibromide	107	14.482	14.482	0.0	98	388293	2.06	
73 Tetrachloroethene	129	14.552	14.552	0.0	94	310849	2.03	
74 Chlorobenzene	112	15.431	15.431	0.0	91	621948	2.17	
75 2,3-Dimethylheptane	43	15.447	15.447	0.0	71	372175	1.35	
76 Ethylbenzene	91	15.722	15.722	0.0	99	953386	2.07	
77 2-Ethylthiophene	97	15.824	15.824	0.0	97	813626	2.21	
78 m-Xylene & p-Xylene	91	15.884	15.884	0.0	100	1630522	4.51	
81 n-Nonane	57	16.299	16.299	0.0	72	319358	1.59	
79 Bromoform	173	16.331	16.331	0.0	97	592493	2.76	
80 Styrene	104	16.347	16.347	0.0	94	577584	2.31	
82 o-Xylene	91	16.407	16.407	0.0	98	839584	2.15	
83 1,1,2,2-Tetrachloroethane	83	16.736	16.736	0.0	97	468904	2.04	
84 1,2,3-Trichloropropane	110	16.897	16.897	0.0	95	192261	2.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	16.994	16.994	0.0	97	1181939	2.29	
86 N-Propylbenzene	120	17.539	17.539	0.0	99	300416	2.23	
87 2-Chlorotoluene	126	17.588	17.588	0.0	96	281174	2.19	
88 4-Ethyltoluene	105	17.695	17.695	0.0	98	1143170	2.31	
89 1,3,5-Trimethylbenzene	120	17.776	17.776	0.0	91	521825	2.33	
90 Alpha Methyl Styrene	118	18.014	18.014	0.0	86	461818	2.50	
91 n-Decane	57	18.068	18.068	0.0	96	404026	1.90	
92 tert-Butylbenzene	119	18.208	18.208	0.0	87	1061376	2.35	
93 1,2,4-Trimethylbenzene	105	18.224	18.224	0.0	95	1025693	2.50	
95 sec-Butylbenzene	105	18.483	18.483	0.0	97	1332413	2.40	
94 1,3-Dichlorobenzene	146	18.499	18.499	0.0	98	667809	2.50	
96 Benzyl chloride	91	18.580	18.580	0.0	97	809790	2.40	
97 1,4-Dichlorobenzene	146	18.591	18.591	0.0	92	648918	2.47	
98 4-Isopropyltoluene	119	18.650	18.650	0.0	87	1175002	2.51	
99 1,2,3-Trimethylbenzene	105	18.704	18.704	0.0	99	853540	2.45	
100 Butylcyclohexane	83	18.758	18.758	0.0	95	666021	2.07	
102 2,3-Dihydroindene	117	18.952	18.952	0.0	90	860555	2.40	
101 1,2-Dichlorobenzene	146	18.957	18.957	0.0	85	642521	2.52	
103 Indene	116	19.087	19.087	0.0	85	856781	2.51	
104 n-Butylbenzene	91	19.092	19.092	0.0	96	1045696	2.52	
106 Undecane	57	19.405	19.405	0.0	84	411842	2.20	
105 1,2-Dimethyl-4-Ethylbenzene	119	19.470	19.470	0.0	96	1052701	2.62	
107 1,2,4,5-Tetramethylbenzene	119	19.858	19.858	0.0	95	1081855	2.72	
108 1,2,3,5-Tetramethylbenzene	119	19.912	19.912	0.0	94	682865	2.62	
109 1,2,3,4-Tetramethylbenzene	119	20.300	20.300	0.0	95	849605	2.56	
110 Dodecane	57	20.462	20.462	0.0	88	209927	1.49	
111 1,2,4-Trichlorobenzene	180	20.656	20.656	0.0	92	423061	2.49	
112 Naphthalene	128	20.791	20.791	0.0	98	733606	2.46	
113 Benzo(b)thiophene	134	20.899	20.899	0.0	99	470293	2.18	
114 Hexachlorobutadiene	225	21.006	21.006	0.0	86	652193	2.94	
115 1,2,3-Trichlorobenzene	180	21.076	21.076	0.0	93	298500	2.35	
116 2-Methylnaphthalene	142	21.923	21.923	0.0	99	217255	15.5	
117 1-Methylnaphthalene	142	22.123	22.123	0.0	99	194437	15.9	
A 118 C6 Range	1	7.590	7.531 - 7.649		0	1414468	1.38	
A 119 Toluene Range	1	13.395	13.344 - 13.452		0	1719075	1.92	
A 120 C8 Range	1	14.099	14.056 - 14.142		0	1764167	1.64	
S 124 Xylenes, Total	100				0		6.66	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\ME\20140321-541.b\ECCVC24-LCS.d

Injection Date: 24-Mar-2014 09:15:30

Instrument ID: ME

Operator ID: 7126

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

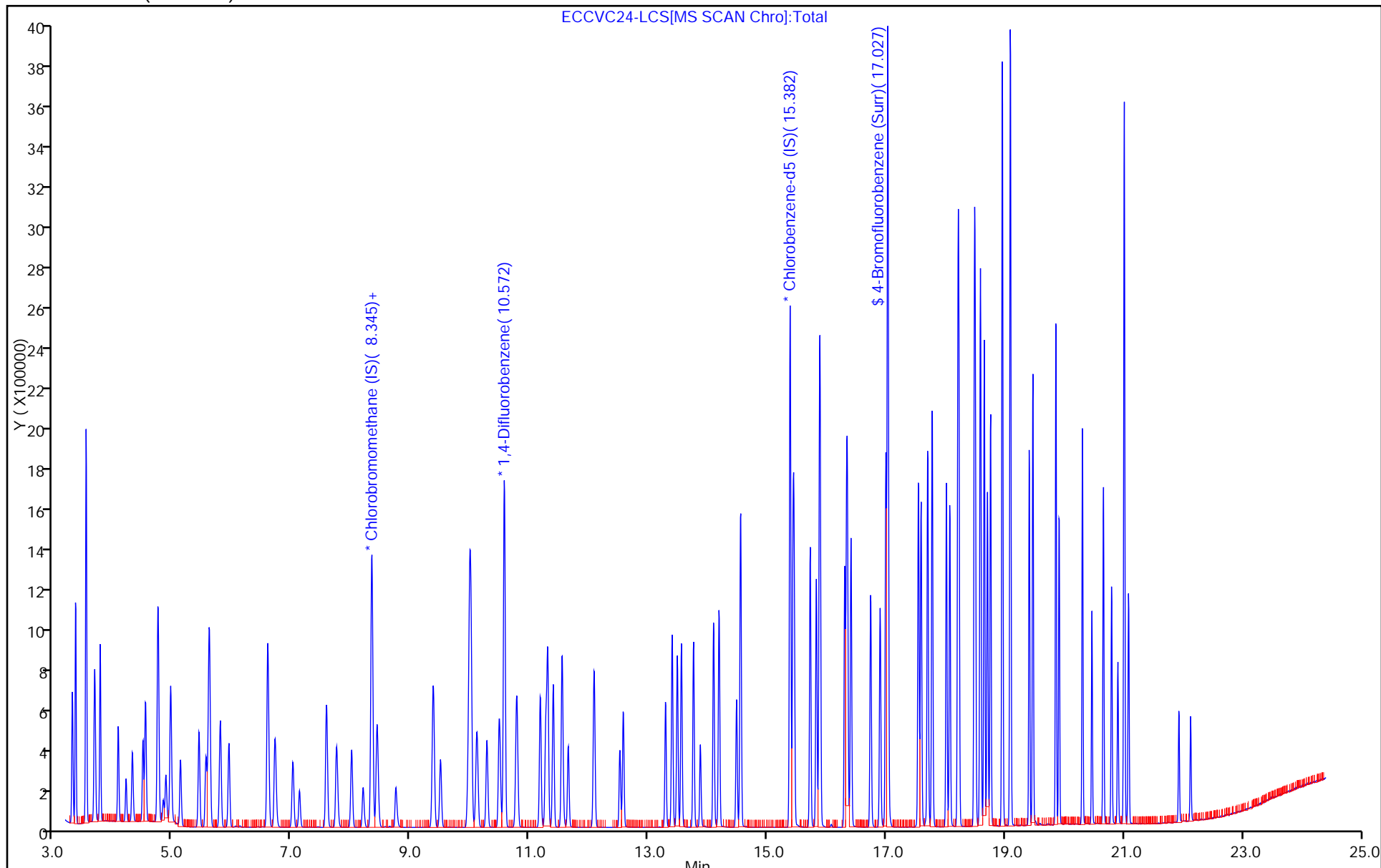
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.: _____

Instrument ID: ME Start Date: 01/28/2014 13:40

Analysis Batch Number: 758 End Date: 01/29/2014 00:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-758/1		01/28/2014 13:40	1	EBFBA28.D	RTX-5 0.32 (mm)
IC 140-758/2		01/28/2014 14:11	1	EICVA281.D	RTX-5 0.32 (mm)
IC 140-758/3		01/28/2014 14:57	1	EICVA282.D	RTX-5 0.32 (mm)
IC 140-758/4		01/28/2014 15:42	1	EICVA283.D	RTX-5 0.32 (mm)
IC 140-758/5		01/28/2014 16:27	1	EICVA284.D	RTX-5 0.32 (mm)
IC 140-758/6		01/28/2014 17:13	1	EICVA285.D	RTX-5 0.32 (mm)
ICIS 140-758/7		01/28/2014 18:10	1	EICVA286.D	RTX-5 0.32 (mm)
IC 140-758/8		01/28/2014 18:55	1	EICVA287.D	RTX-5 0.32 (mm)
IC 140-758/9		01/28/2014 19:40	1	EICVA288.D	RTX-5 0.32 (mm)
IC 140-758/10		01/28/2014 20:25	1	EICVA289.D	RTX-5 0.32 (mm)
ICV 140-758/14		01/28/2014 23:23	1	ELCSA28.D	RTX-5 0.32 (mm)
ZZZZZ		01/29/2014 00:09	1		RTX-5 0.32 (mm)
ZZZZZ		01/29/2014 00:54	1		RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/11/2014 12:12

Analysis Batch Number: 946 End Date: 03/11/2014 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-946/1		03/11/2014 12:12	1	JBFBC11.D	RTX-5 0.32 (mm)
IC 140-946/2		03/11/2014 12:40	1	JICC111.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 12:40	1		RTX-5 0.32 (mm)
IC 140-946/3		03/11/2014 13:35	1	JICC112.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 13:35	1		RTX-5 0.32 (mm)
IC 140-946/4		03/11/2014 14:29	1	JICC113.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 14:29	1		RTX-5 0.32 (mm)
IC 140-946/5		03/11/2014 15:23	1	JICC114.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 15:23	1		RTX-5 0.32 (mm)
IC 140-946/6		03/11/2014 16:17	1	JICC115.D	RTX-5 0.32 (mm)
ICIS 140-946/7		03/11/2014 17:11	1	JICC116.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 17:11	1		RTX-5 0.32 (mm)
IC 140-946/8		03/11/2014 18:06	1	JICC117.D	RTX-5 0.32 (mm)
IC 140-946/9		03/11/2014 19:02	1	JICC118.D	RTX-5 0.32 (mm)
IC 140-946/10		03/11/2014 19:57	1	JICC119.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 22:39	1		RTX-5 0.32 (mm)
ICV 140-946/14		03/11/2014 23:33	1	JLCSC11.D	RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/18/2014 09:48

Analysis Batch Number: 971 End Date: 03/19/2014 09:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-971/1		03/18/2014 09:48	1	JBFBC18.D	RTX-5 0.32 (mm)
CCVIS 140-971/2		03/18/2014 10:16	1	JCCVC18.D	RTX-5 0.32 (mm)
LCS 140-971/1002		03/18/2014 10:16	1	JCCVC18-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 12:06	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 13:07	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 13:07	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 14:00	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 14:55	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 15:49	1		RTX-5 0.32 (mm)
MB 140-971/9		03/18/2014 16:42	1	MB200mL.D	RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 18:17	1		RTX-5 0.32 (mm)
140-1063-14	IA2-E14	03/18/2014 19:12	1	JC18P201.D	RTX-5 0.32 (mm)
140-1063-15	IA3-E14	03/18/2014 20:05	1.84	JC18P202.D	RTX-5 0.32 (mm)
140-1063-16	PCV-IA1-B5	03/18/2014 21:00	1	JC18P203.D	RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 21:54	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 22:48	1.43		RTX-5 0.32 (mm)
140-1063-2	IA5-E14	03/18/2014 23:43	1	JC18P205.D	RTX-5 0.32 (mm)
140-1063-3	IA6-E14	03/19/2014 00:36	1	JC18P206.D	RTX-5 0.32 (mm)
140-1063-4	IA7-E14	03/19/2014 01:31	1	JC18P207.D	RTX-5 0.32 (mm)
140-1063-5	AMB-2	03/19/2014 02:25	1	JC18P208.D	RTX-5 0.32 (mm)
140-1063-6	AMB-4	03/19/2014 03:20	1	JC18P209.D	RTX-5 0.32 (mm)
140-1063-8	PCV-IA2-B7	03/19/2014 04:13	1	JC18P210.D	RTX-5 0.32 (mm)
140-1063-9	PCV-IA3-B7	03/19/2014 05:07	1	JC18P211.D	RTX-5 0.32 (mm)
140-1063-10	PCV-IA1-B11	03/19/2014 06:01	1	JC18P212.D	RTX-5 0.32 (mm)
140-1063-11	PCV-IA2-B11	03/19/2014 06:56	1	JC18P213.D	RTX-5 0.32 (mm)
140-1063-12	PCV-IA3-B11	03/19/2014 07:51	1.64	JC18P214.D	RTX-5 0.32 (mm)
140-1063-13	IA1-E14	03/19/2014 08:44	1	JC18P215.D	RTX-5 0.32 (mm)
140-1063-17	PCV-IA2-B5	03/19/2014 09:39	1	JC18P216.D	RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/19/2014 10:38

Analysis Batch Number: 976 End Date: 03/20/2014 07:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-976/1		03/19/2014 10:38	1	JBFBC19.D	RTX-5 0.32 (mm)
CCVIS 140-976/2		03/19/2014 11:06	1	JCCVC19.D	RTX-5 0.32 (mm)
LCS 140-976/1002		03/19/2014 11:06	1	JCCVC19-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 13:17	1		RTX-5 0.32 (mm)
MB 140-976/1004		03/19/2014 13:17	1	140-1071-a-10-M B.d	RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 14:11	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 15:05	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 15:59	1		RTX-5 0.32 (mm)
140-1063-1	IA4-E14	03/19/2014 16:52	1.43	JC19P102.D	RTX-5 0.32 (mm)
140-1063-19	AMB-1	03/19/2014 19:31	1	JC19P104.D	RTX-5 0.32 (mm)
140-1063-20	AMB-3	03/19/2014 20:25	1	JC19P105.D	RTX-5 0.32 (mm)
140-1063-21	IA1-E19	03/19/2014 21:18	1	JC19P106.D	RTX-5 0.32 (mm)
140-1063-22	IA2-E19	03/19/2014 22:12	1	JC19P107.D	RTX-5 0.32 (mm)
140-1063-23	IA1-E17	03/19/2014 23:06	1	JC19P108.D	RTX-5 0.32 (mm)
140-1063-24	IA1FD-E17	03/20/2014 00:01	1	JC19P109.D	RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 00:55	1		RTX-5 0.32 (mm)
140-1063-25	IA2-E17	03/20/2014 01:49	1	JC19P110.D	RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 02:43	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 03:37	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 04:32	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 05:26	1		RTX-5 0.32 (mm)
140-1063-16 DL	PCV-IA1-B5 DL	03/20/2014 07:15	1	JC19P101R.D	RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/21/2014 11:03

Analysis Batch Number: 984 End Date: 03/22/2014 07:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-984/1		03/21/2014 11:03	1	JBFBC21.D	RTX-5 0.32 (mm)
CCVIS 140-984/2		03/21/2014 11:30	1	JCCVC21.D	RTX-5 0.32 (mm)
LCS 140-984/1002		03/21/2014 11:30	1	JCCVC21-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 13:45	1		RTX-5 0.32 (mm)
MB 140-984/5		03/21/2014 14:39	1	200BLK.D	RTX-5 0.32 (mm)
140-1063-18	PCV-IAPC-B5	03/21/2014 15:32	1	JC21P101.D	RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 16:26	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 17:20	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 18:13	1.66		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 19:07	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 20:00	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 20:53	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 21:46	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 22:40	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 23:34	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 00:28	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 01:22	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 02:16	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 03:10	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 04:04	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 04:58	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 06:47	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 07:41	1		RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1

SDG No.: _____

Instrument ID: ME Start Date: 03/24/2014 08:44

Analysis Batch Number: 990 End Date: 03/25/2014 01:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-990/1		03/24/2014 08:44	1	EBFBC24.D	RTX-5 0.32 (mm)
CCVIS 140-990/2		03/24/2014 09:15	1	ECCVC24.D	RTX-5 0.32 (mm)
LCS 140-990/1002		03/24/2014 09:15	1	ECCVC24-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 11:00	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 11:45	1		RTX-5 0.32 (mm)
MB 140-990/1005		03/24/2014 11:45	1	140-1086-a-9-MB.d	RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 12:32	1		RTX-5 0.32 (mm)
140-1063-17 DL	PCV-IA2-B5 DL	03/24/2014 13:17	1	EC24P104.D	RTX-5 0.32 (mm)
140-1063-18 DL	PCV-IAPC-B5 DL	03/24/2014 14:38	1	EC24P105.D	RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 15:23	332.65		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 16:08	3306.12		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 16:53	8816.33		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 17:39	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 18:24	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 19:08	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 19:53	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 20:38	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 21:24	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 22:09	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 22:54	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 23:39	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 00:24	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 01:09	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 01:55	1		RTX-5 0.32 (mm)

Summa Canister Dilution Worksheet

Client: AECOM, Inc.

Job No.: 140-1063-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Date	Analyst
140-1063-1	6	-8.3	0.72	4.34	0.5	1.03	6.20		1.43	1.43	03/18/14 8:41	Goss, Scot E
140-1063-12	6	-11	0.63	3.79	0.5	1.03	6.20		1.64	1.64	03/18/14 8:56	Goss, Scot E
140-1063-15	6	-13.7	0.54	3.25	0.0	1.00	6.00		1.84	1.84	03/18/14 9:01	Goss, Scot E

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg

Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10410 Lab Sample ID: 140-851-1
 Matrix: Air Lab File ID: 140-851-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 12:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10410 Lab Sample ID: 140-851-1
 Matrix: Air Lab File ID: 140-851-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 12:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10410 Lab Sample ID: 140-851-1
 Matrix: Air Lab File ID: 140-851-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 12:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10410 Lab Sample ID: 140-851-1
 Matrix: Air Lab File ID: 140-851-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 12:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-1.D
 Lims ID: 140-851-A-1 Lab Sample ID: 140-851-1
 Client ID: 10410
 Sample Type: Client
 Inject. Date: 10-Feb-2014 12:53:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10410
 Misc. Info.: E021014,TO155,,140-0000422-004
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 10-Feb-2014 15:31:55 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa

Date: 10-Feb-2014 15:32:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	302206	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	1528965	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	1316979	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	87	1109828	3.85	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	93	33461	0.1847	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-1.D

Injection Date: 10-Feb-2014 12:53:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-1

Lab Sample ID: 140-851-1

Worklist Smp#: 4

Client ID: 10410

Purge Vol: 500.000 mL

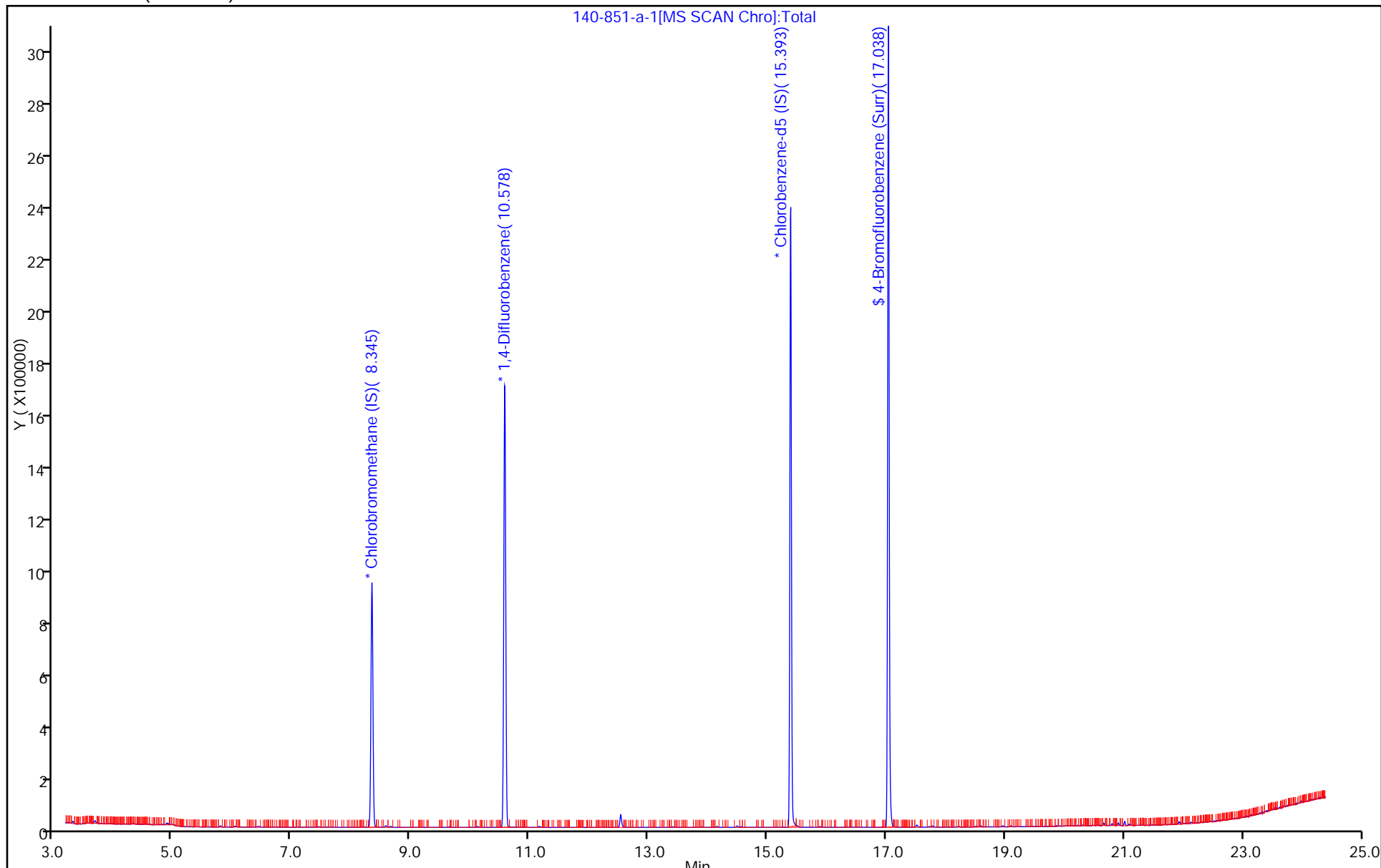
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10991 Lab Sample ID: 140-851-2
 Matrix: Air Lab File ID: 140-851-a-2R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 01:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10991 Lab Sample ID: 140-851-2
 Matrix: Air Lab File ID: 140-851-a-2R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 01:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10991 Lab Sample ID: 140-851-2
 Matrix: Air Lab File ID: 140-851-a-2R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 01:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10991 Lab Sample ID: 140-851-2
 Matrix: Air Lab File ID: 140-851-a-2R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 01:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-2R.D
 Lims ID: 140-851-A-2 Lab Sample ID: 140-851-2
 Client ID: 10991
 Sample Type: Client
 Inject. Date: 11-Feb-2014 01:53:30 ALS Bottle#: 3 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10991
 Misc. Info.: E021014,TO155,,140-0000422-021
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:23:00 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:23:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	241259	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1208659	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1062609	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	941763	4.05	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-2R.D

Injection Date: 11-Feb-2014 01:53:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-2

Lab Sample ID: 140-851-2

Worklist Smp#: 21

Client ID: 10991

Purge Vol: 500.000 mL

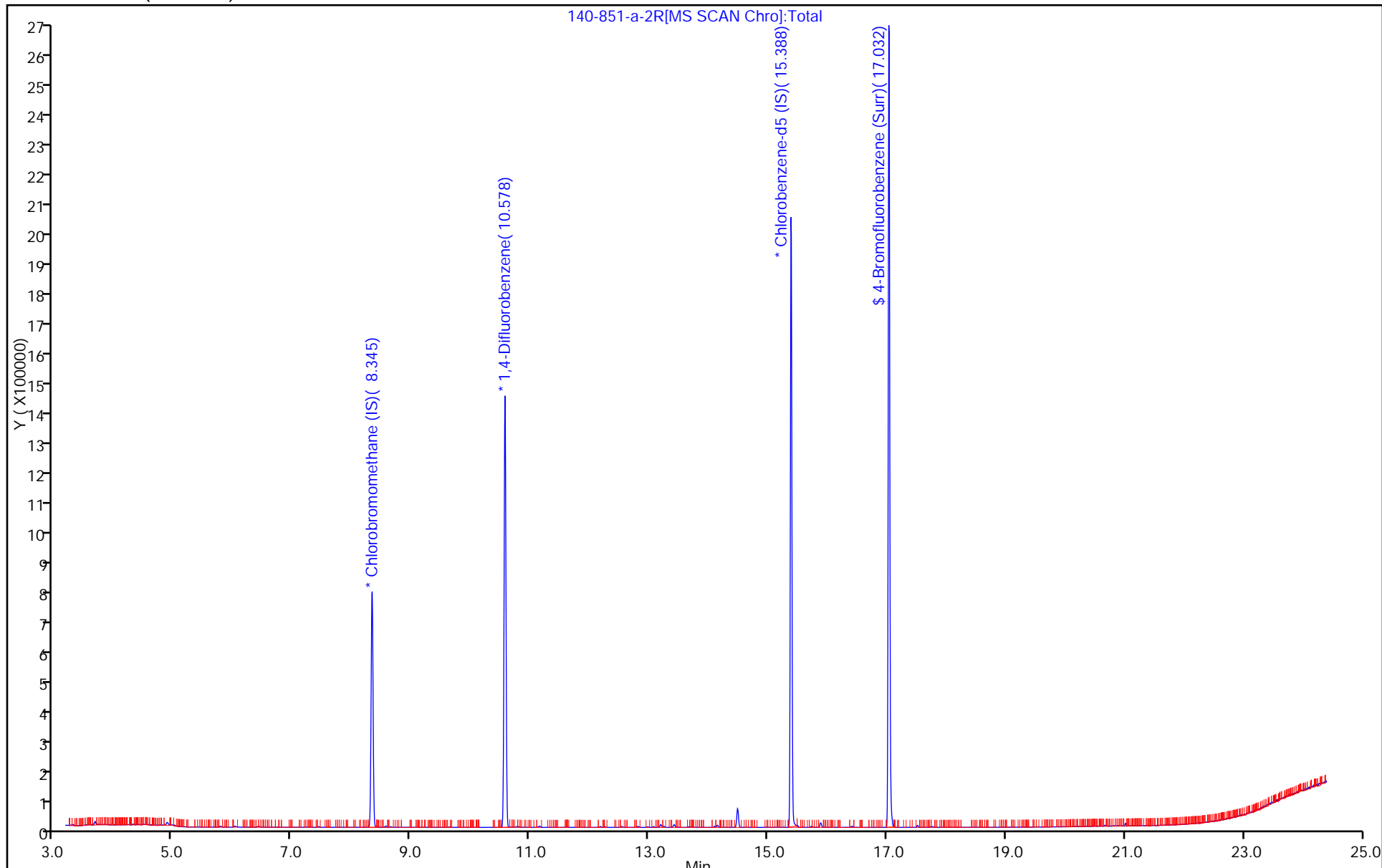
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-851-3
 Matrix: Air Lab File ID: 140-851-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 14:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-851-3
 Matrix: Air Lab File ID: 140-851-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 14:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-851-3
 Matrix: Air Lab File ID: 140-851-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 14:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-851-3
 Matrix: Air Lab File ID: 140-851-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 14:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-3.D
 Lims ID: 140-851-A-3 Lab Sample ID: 140-851-3
 Client ID: 10426
 Sample Type: Client
 Inject. Date: 10-Feb-2014 14:29:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10426
 Misc. Info.: E021014,TO155,,140-0000422-006
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 10-Feb-2014 15:31:55 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa

Date: 10-Feb-2014 15:32:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	274480	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1391700	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	1219017	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	87	1048621	3.93	
6 Chlorodifluoromethane	67	3.303	3.298	0.005	91	2289	0.0595	
19 2-Methylbutane	43	4.538	4.544	-0.006	48	1399	0.0146	
31 Methylene Chloride	84	5.800	5.795	0.005	77	5174	0.0660	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	78	6197	0.0376	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-3.D

Injection Date: 10-Feb-2014 14:29:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-3

Lab Sample ID: 140-851-3

Worklist Smp#: 6

Client ID: 10426

Purge Vol: 500.000 mL

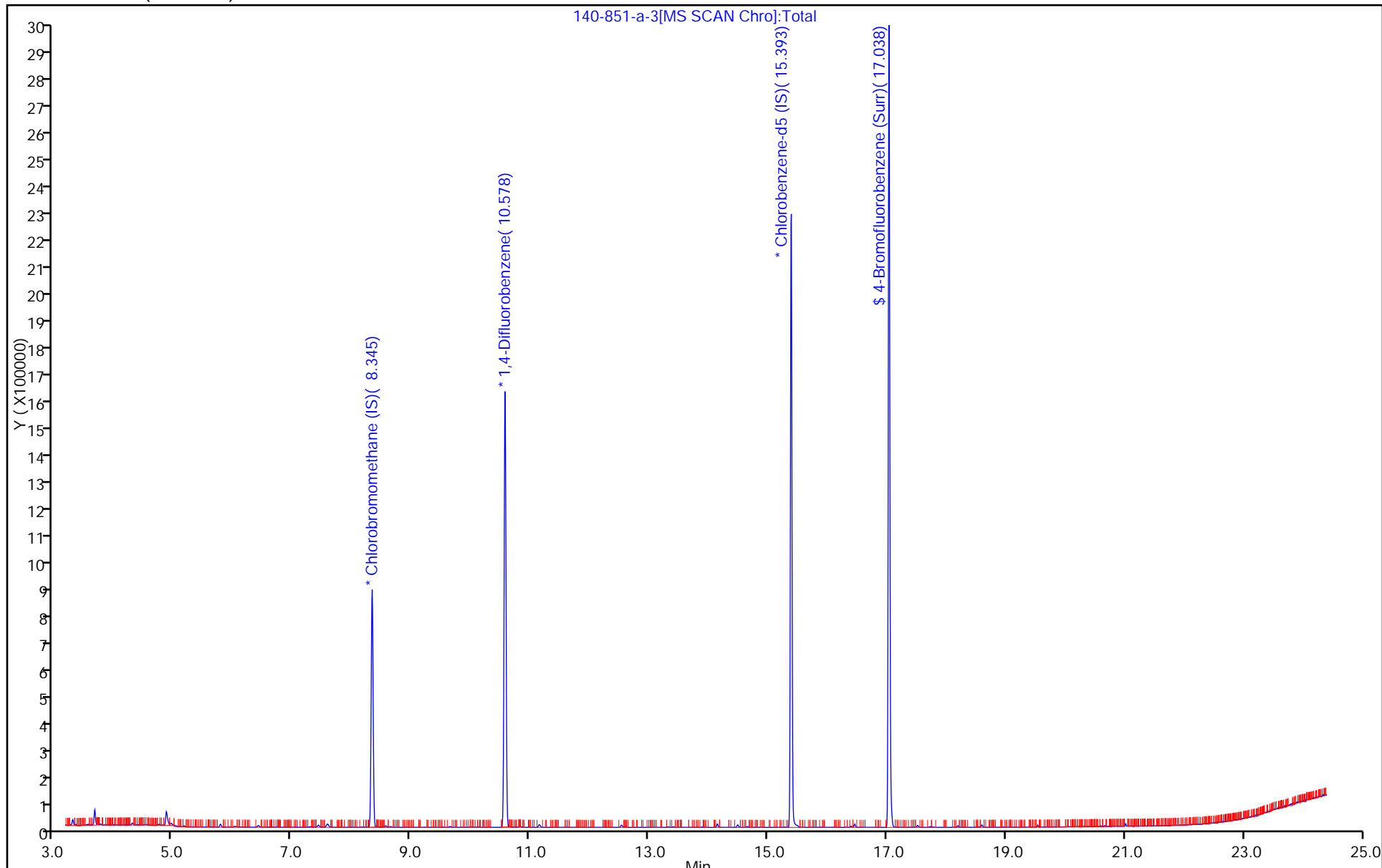
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10038 Lab Sample ID: 140-851-4
 Matrix: Air Lab File ID: 140-851-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 15:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10038 Lab Sample ID: 140-851-4
 Matrix: Air Lab File ID: 140-851-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 15:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10038 Lab Sample ID: 140-851-4
 Matrix: Air Lab File ID: 140-851-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 15:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10038 Lab Sample ID: 140-851-4
 Matrix: Air Lab File ID: 140-851-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 15:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-4.D
 Lims ID: 140-851-A-4 Lab Sample ID: 140-851-4
 Client ID: 10038
 Sample Type: Client
 Inject. Date: 10-Feb-2014 15:14:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10038
 Misc. Info.: E021014,TO155,,140-0000422-007
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 10-Feb-2014 16:22:48 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa Date: 10-Feb-2014 16:22:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	235963	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1110256	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	997148	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	86	856623	3.92	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-4.D

Injection Date: 10-Feb-2014 15:14:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-4

Lab Sample ID: 140-851-4

Worklist Smp#: 7

Client ID: 10038

Purge Vol: 500.000 mL

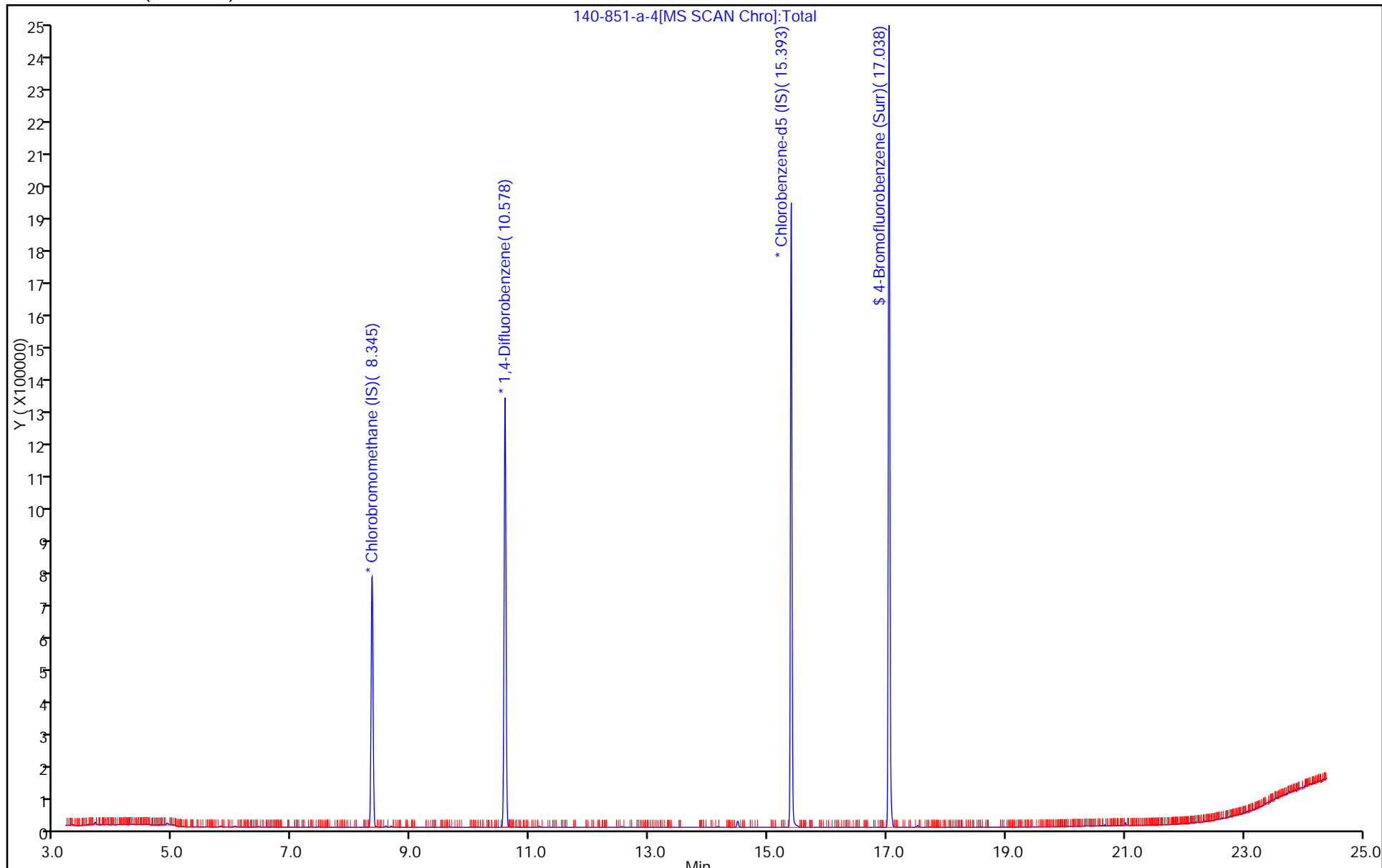
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09614 Lab Sample ID: 140-851-5
 Matrix: Air Lab File ID: 140-851-a-5R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 03:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09614 Lab Sample ID: 140-851-5
 Matrix: Air Lab File ID: 140-851-a-5R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 03:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09614 Lab Sample ID: 140-851-5
 Matrix: Air Lab File ID: 140-851-a-5R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 03:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09614 Lab Sample ID: 140-851-5
 Matrix: Air Lab File ID: 140-851-a-5R.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 03:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-5R.D
 Lims ID: 140-851-A-5 Lab Sample ID: 140-851-5
 Client ID: 09614
 Sample Type: Client
 Inject. Date: 11-Feb-2014 03:23:30 ALS Bottle#: 5 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09614
 Misc. Info.: E021014,TO155,,140-0000422-023
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:24:10 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh

Date: 11-Feb-2014 07:23:53

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	226464	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1050800	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	92	987410	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	870462	4.03	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	83	6835	0.0549	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-5R.D

Injection Date: 11-Feb-2014 03:23:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-5

Lab Sample ID: 140-851-5

Worklist Smp#: 23

Client ID: 09614

Purge Vol: 500.000 mL

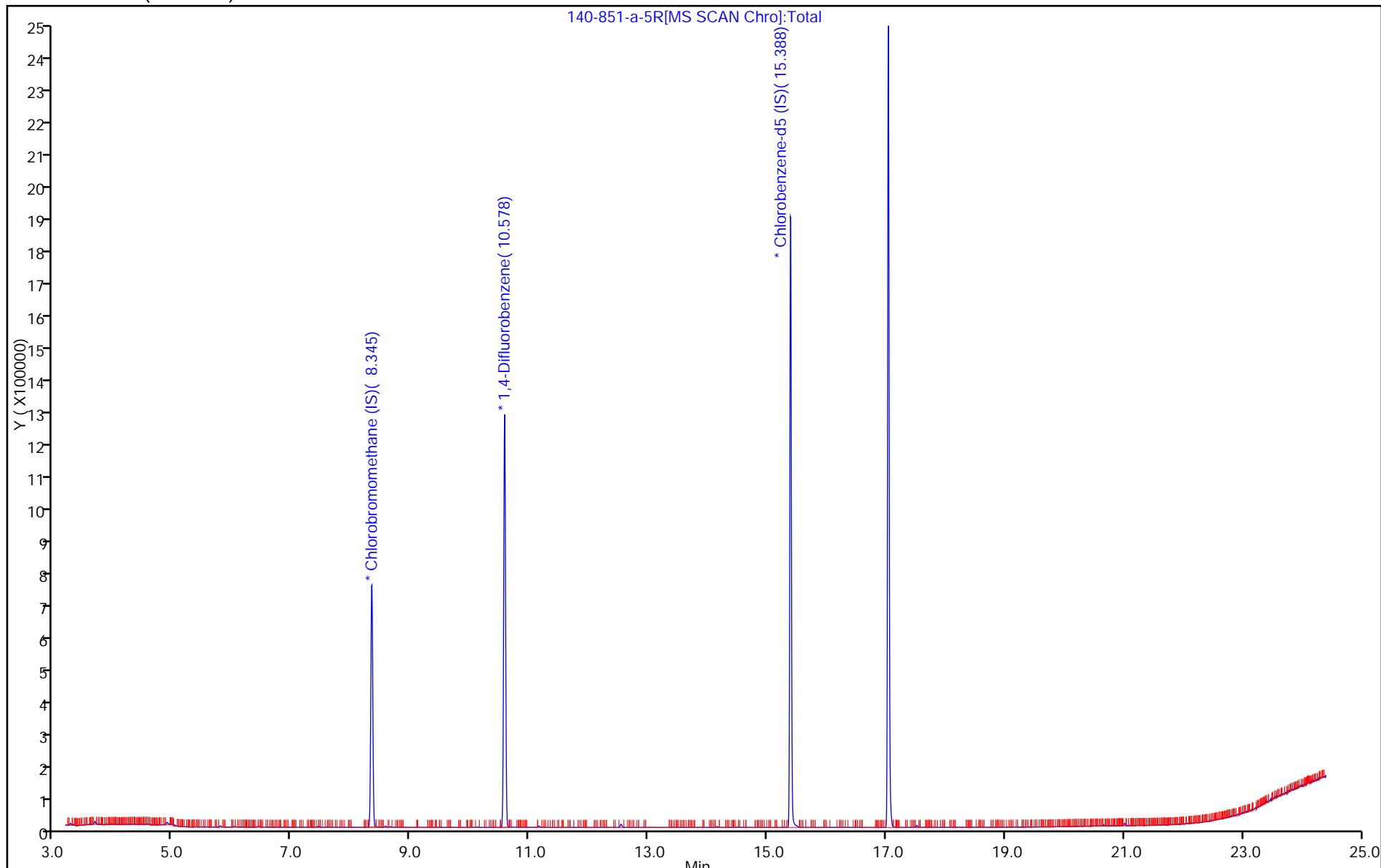
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09921 Lab Sample ID: 140-851-6
 Matrix: Air Lab File ID: 140-851-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09921 Lab Sample ID: 140-851-6
 Matrix: Air Lab File ID: 140-851-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09921 Lab Sample ID: 140-851-6
 Matrix: Air Lab File ID: 140-851-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09921 Lab Sample ID: 140-851-6
 Matrix: Air Lab File ID: 140-851-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-6.D
 Lims ID: 140-851-A-6 Lab Sample ID: 140-851-6
 Client ID: 09921
 Sample Type: Client
 Inject. Date: 10-Feb-2014 16:45:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09921
 Misc. Info.: E021014,TO155,,140-0000422-009
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 10-Feb-2014 17:20:54 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa Date: 10-Feb-2014 17:20:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.351	0.0	82	251510	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1261736	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1103996	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	90	954770	3.95	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-6.D

Injection Date: 10-Feb-2014 16:45:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-6

Lab Sample ID: 140-851-6

Worklist Smp#: 9

Client ID: 09921

Purge Vol: 500.000 mL

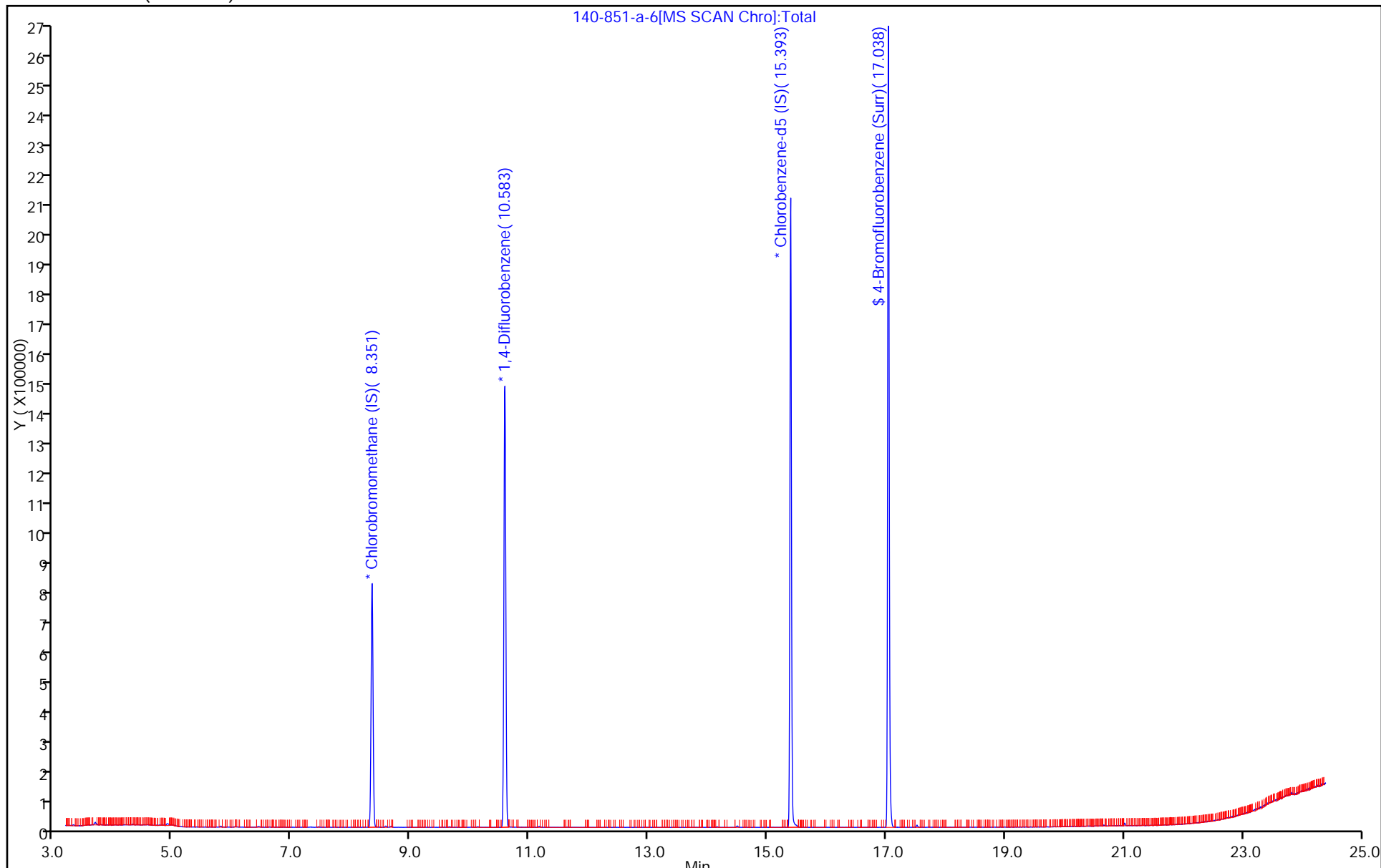
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10765 Lab Sample ID: 140-851-7
 Matrix: Air Lab File ID: 140-851-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10765 Lab Sample ID: 140-851-7
 Matrix: Air Lab File ID: 140-851-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10765 Lab Sample ID: 140-851-7
 Matrix: Air Lab File ID: 140-851-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10765 Lab Sample ID: 140-851-7
 Matrix: Air Lab File ID: 140-851-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-7.D
 Lims ID: 140-851-A-7 Lab Sample ID: 140-851-7
 Client ID: 10765
 Sample Type: Client
 Inject. Date: 10-Feb-2014 17:30:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10765
 Misc. Info.: E021014,TO155,,140-0000422-010
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 10-Feb-2014 18:08:23 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: barlozhetskayaa Date: 10-Feb-2014 18:08:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.351	8.351	-0.001	82	244761	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1207675	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1069726	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	85	943329	4.03	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-7.D

Injection Date: 10-Feb-2014 17:30:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-7

Lab Sample ID: 140-851-7

Worklist Smp#: 10

Client ID: 10765

Purge Vol: 500.000 mL

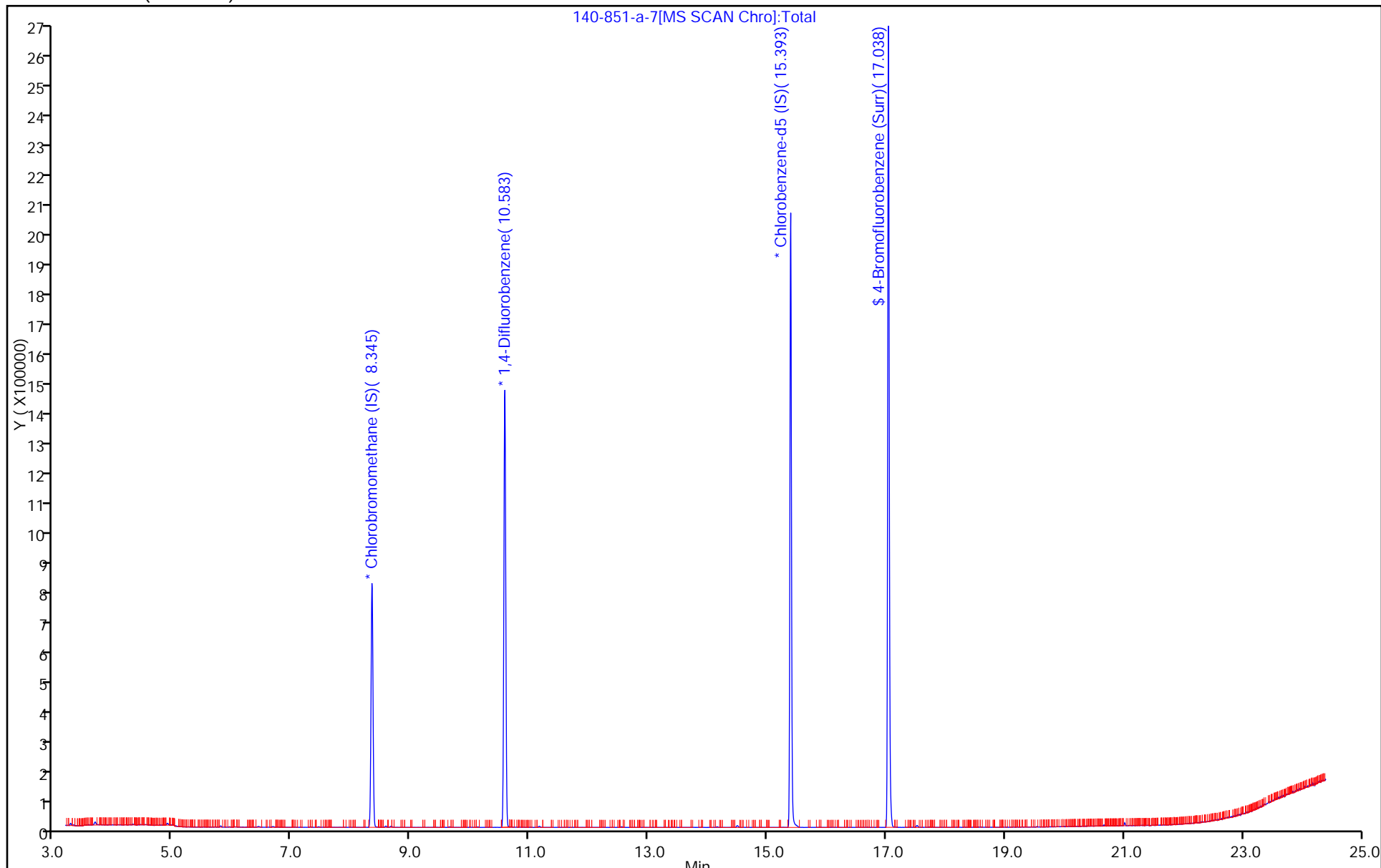
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10097 Lab Sample ID: 140-851-8
 Matrix: Air Lab File ID: 140-851-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 18:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10097 Lab Sample ID: 140-851-8
 Matrix: Air Lab File ID: 140-851-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 18:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10097 Lab Sample ID: 140-851-8
 Matrix: Air Lab File ID: 140-851-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 18:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10097 Lab Sample ID: 140-851-8
 Matrix: Air Lab File ID: 140-851-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 18:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-8.D
 Lims ID: 140-851-A-8 Lab Sample ID: 140-851-8
 Client ID: 10097
 Sample Type: Client
 Inject. Date: 10-Feb-2014 18:16:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10097
 Misc. Info.: E021014,TO155,,140-0000422-011
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:19:22 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:19:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	240114	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1205776	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1099698	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	959313	3.98	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-8.D

Injection Date: 10-Feb-2014 18:16:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-8

Lab Sample ID: 140-851-8

Worklist Smp#: 11

Client ID: 10097

Purge Vol: 500.000 mL

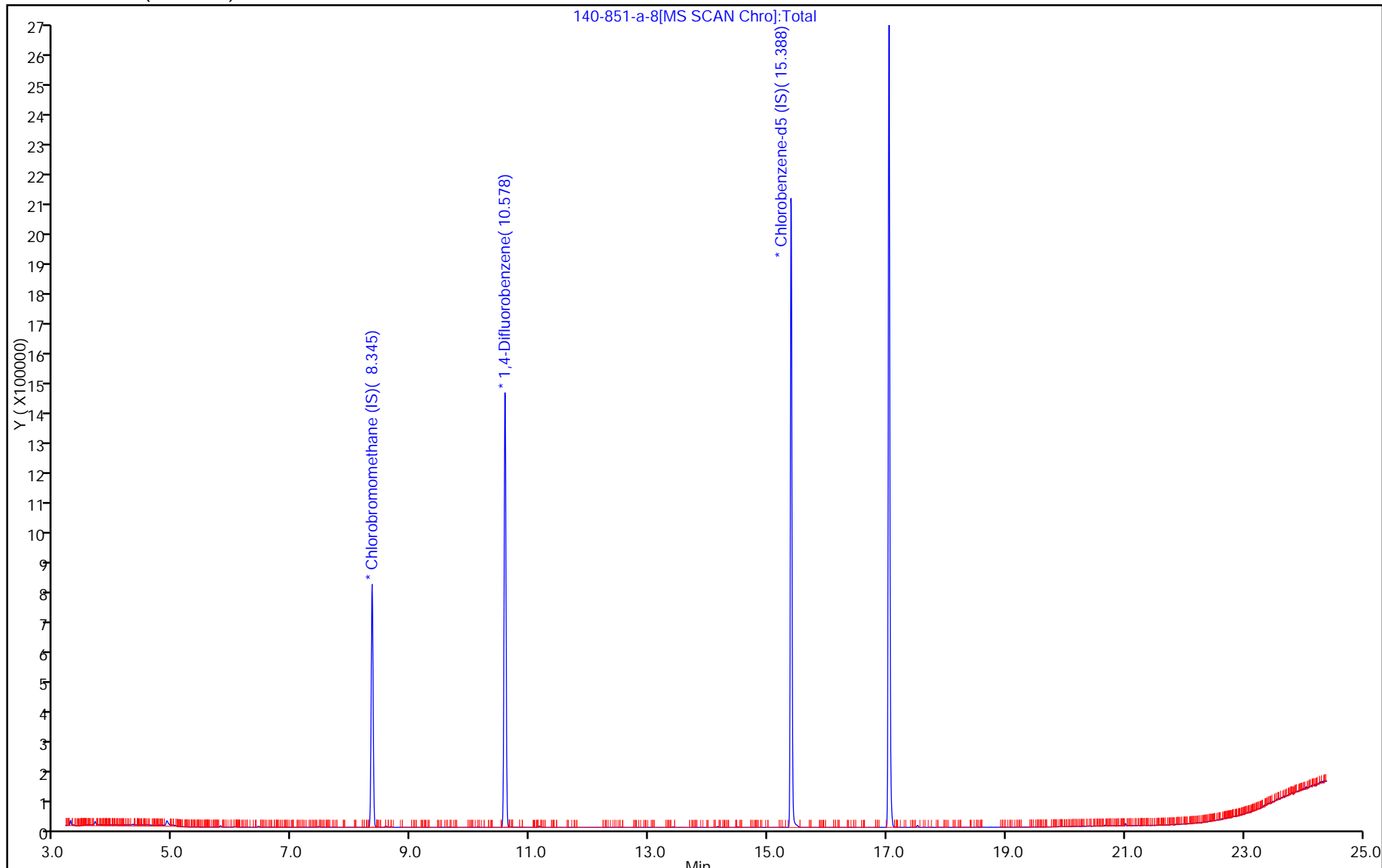
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10732 Lab Sample ID: 140-851-9
 Matrix: Air Lab File ID: 140-851-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10732 Lab Sample ID: 140-851-9
 Matrix: Air Lab File ID: 140-851-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10732 Lab Sample ID: 140-851-9
 Matrix: Air Lab File ID: 140-851-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10732 Lab Sample ID: 140-851-9
 Matrix: Air Lab File ID: 140-851-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 19:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-9.D
 Lims ID: 140-851-A-9 Lab Sample ID: 140-851-9
 Client ID: 10732
 Sample Type: Client
 Inject. Date: 10-Feb-2014 19:02:30 ALS Bottle#: 9 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10732
 Misc. Info.: E021014,TO155,,140-0000422-012
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:19:49 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh

Date: 11-Feb-2014 07:19:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	226870	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1108031	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1041032	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	917421	4.02	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	86	13191	0.1004	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-9.D

Injection Date: 10-Feb-2014 19:02:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-9

Lab Sample ID: 140-851-9

Worklist Smp#: 12

Client ID: 10732

Purge Vol: 500.000 mL

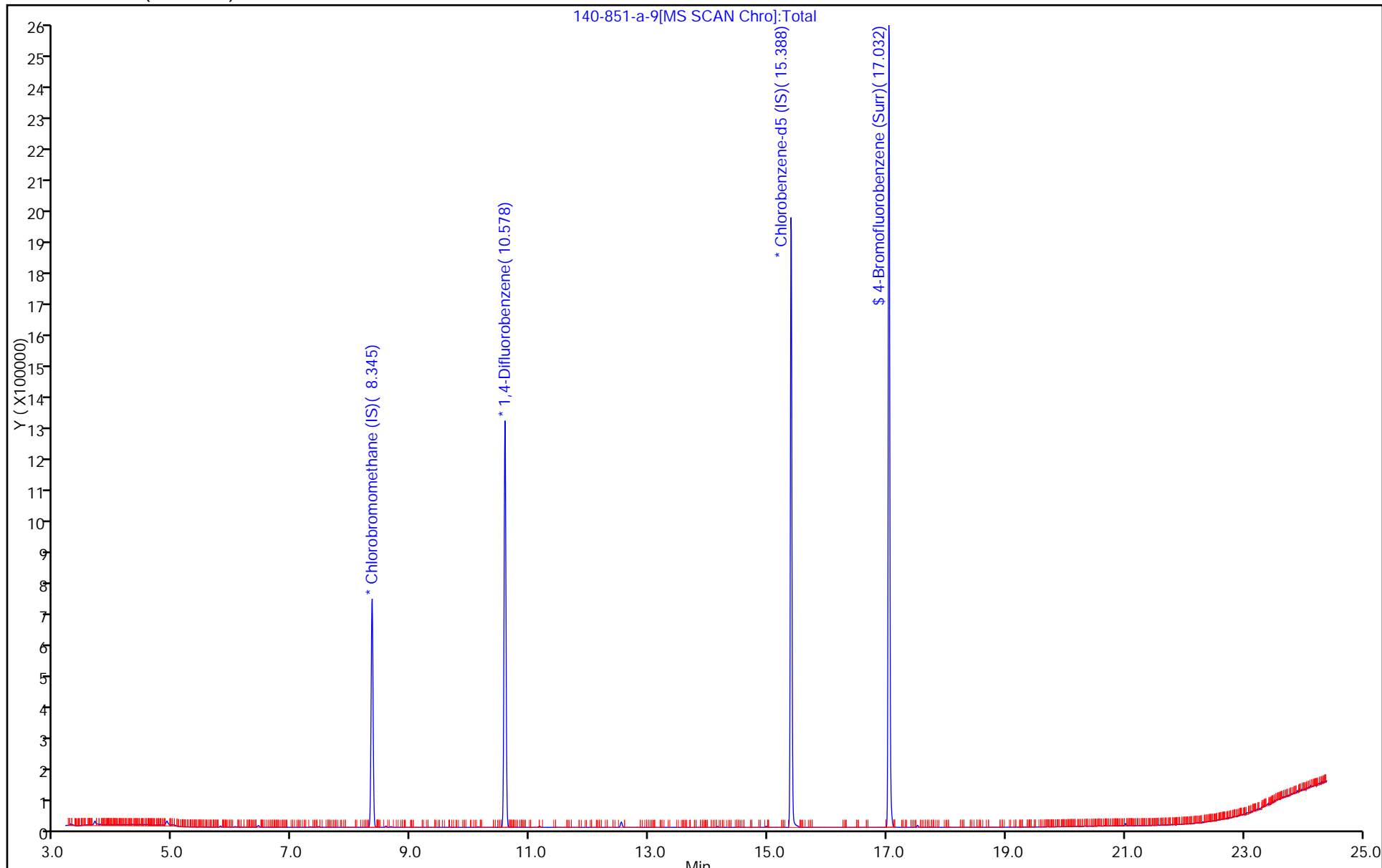
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10065 Lab Sample ID: 140-851-10
 Matrix: Air Lab File ID: 140-851-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10065 Lab Sample ID: 140-851-10
 Matrix: Air Lab File ID: 140-851-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10065 Lab Sample ID: 140-851-10
 Matrix: Air Lab File ID: 140-851-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 19:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10065 Lab Sample ID: 140-851-10
 Matrix: Air Lab File ID: 140-851-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 19:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-10.D
 Lims ID: 140-851-A-10 Lab Sample ID: 140-851-10
 Client ID: 10065
 Sample Type: Client
 Inject. Date: 10-Feb-2014 19:47:30 ALS Bottle#: 10 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10065
 Misc. Info.: E021014,TO155,,140-0000422-013
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:20:08 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:20:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	256639	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1235852	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	92	1122464	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	976560	3.97	
9 Chloromethane	52	3.530	3.530	0.0	36	1799	0.0794	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-10.D

Injection Date: 10-Feb-2014 19:47:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-10

Lab Sample ID: 140-851-10

Worklist Smp#: 13

Client ID: 10065

Purge Vol: 500.000 mL

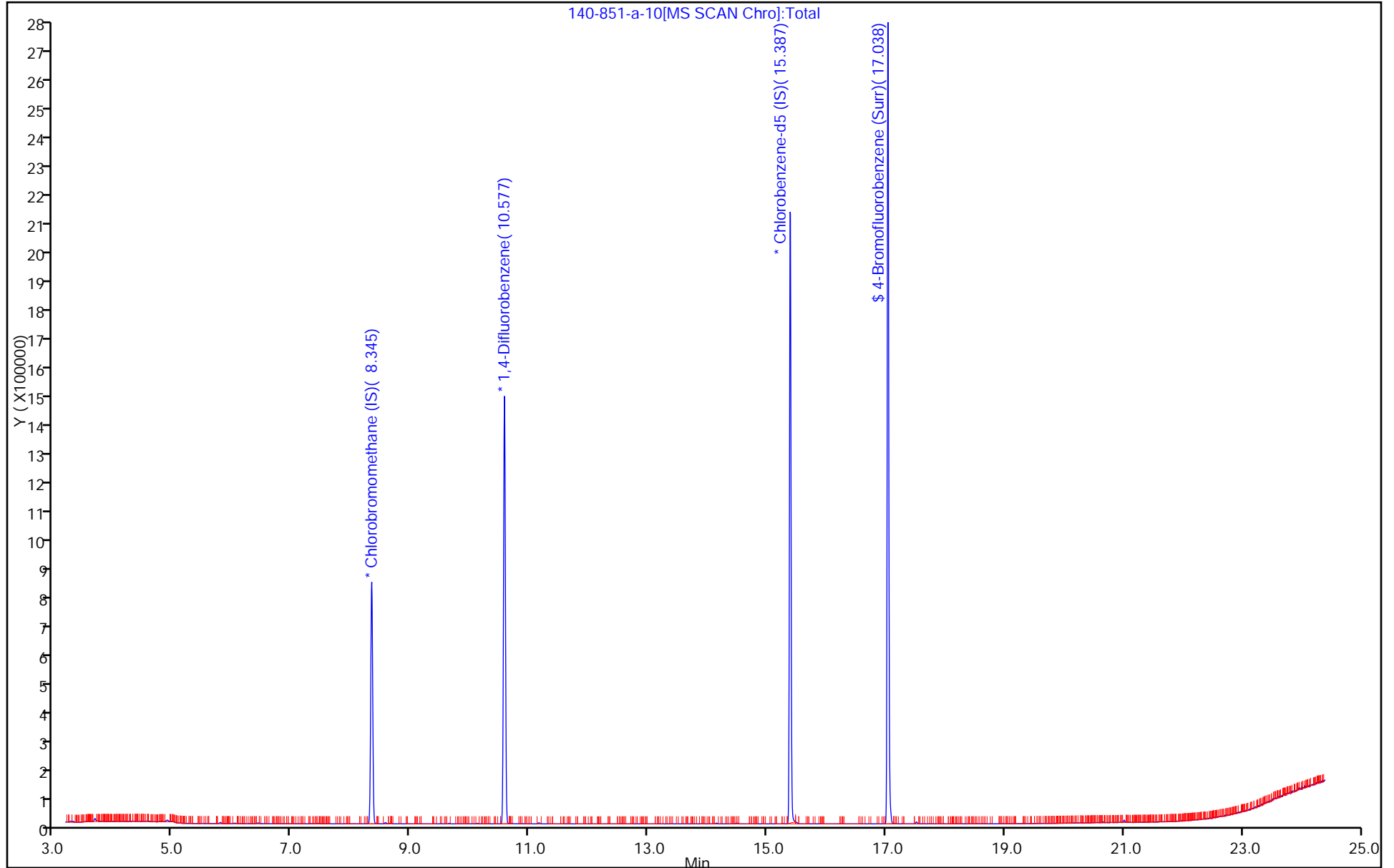
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10168 Lab Sample ID: 140-851-11
 Matrix: Air Lab File ID: 140-851-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 20:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10168 Lab Sample ID: 140-851-11
 Matrix: Air Lab File ID: 140-851-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 20:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10168 Lab Sample ID: 140-851-11
 Matrix: Air Lab File ID: 140-851-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 20:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10168 Lab Sample ID: 140-851-11
 Matrix: Air Lab File ID: 140-851-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 20:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-11.D
 Lims ID: 140-851-A-11 Lab Sample ID: 140-851-11
 Client ID: 10168
 Sample Type: Client
 Inject. Date: 10-Feb-2014 20:33:30 ALS Bottle#: 11 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10168
 Misc. Info.: E021014,TO155,,140-0000422-014
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:20:24 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:20:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	238841	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1147582	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	975671	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	858363	4.02	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-11.D

Injection Date: 10-Feb-2014 20:33:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-11

Lab Sample ID: 140-851-11

Worklist Smp#: 14

Client ID: 10168

Purge Vol: 500.000 mL

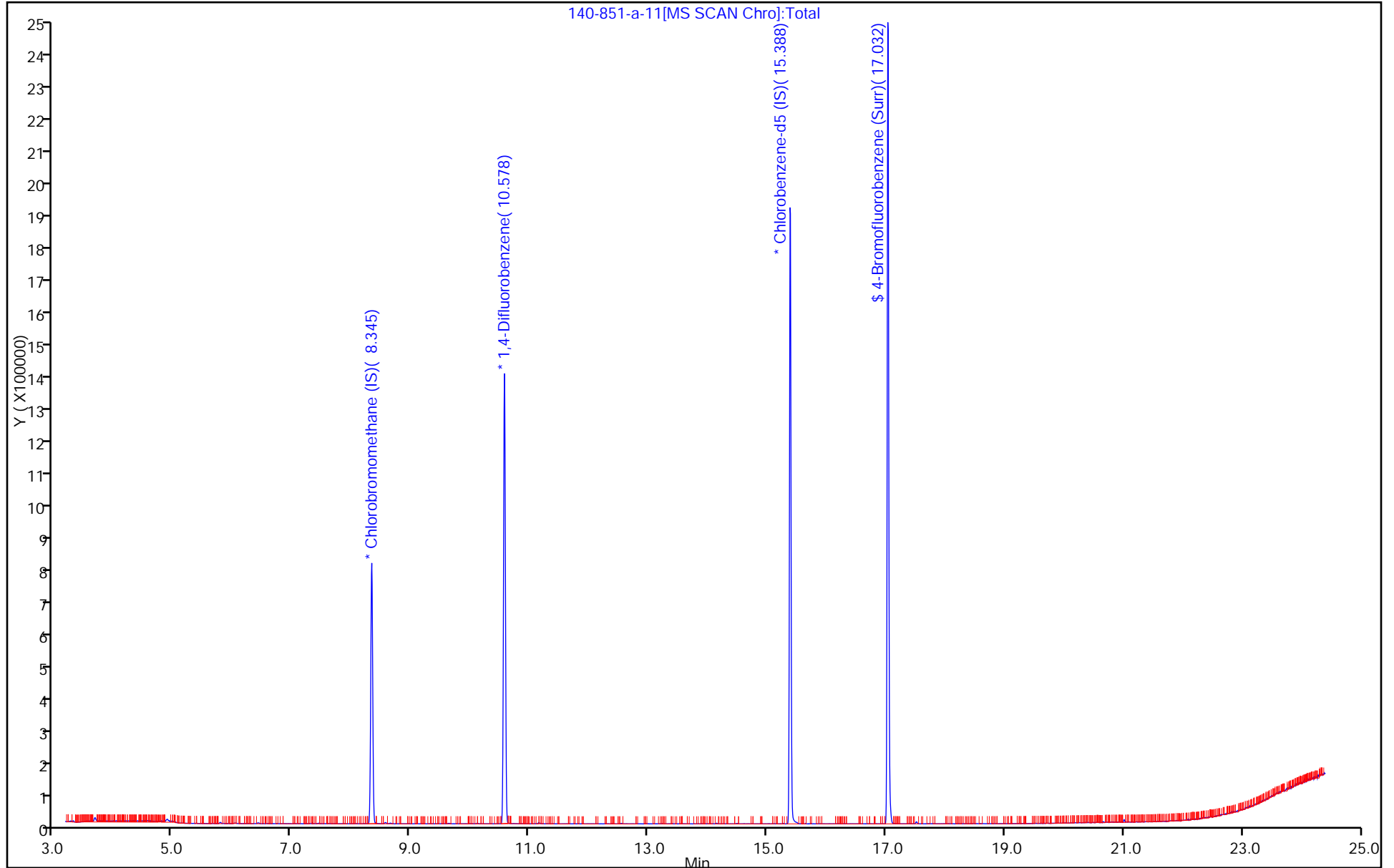
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10511 Lab Sample ID: 140-851-12
 Matrix: Air Lab File ID: 140-851-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10511 Lab Sample ID: 140-851-12
 Matrix: Air Lab File ID: 140-851-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10511 Lab Sample ID: 140-851-12
 Matrix: Air Lab File ID: 140-851-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10511 Lab Sample ID: 140-851-12
 Matrix: Air Lab File ID: 140-851-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-12.D
 Lims ID: 140-851-A-12 Lab Sample ID: 140-851-12
 Client ID: 10511
 Sample Type: Client
 Inject. Date: 10-Feb-2014 21:18:30 ALS Bottle#: 12 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10511
 Misc. Info.: E021014,TO155,,140-0000422-015
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:20:43 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh

Date: 11-Feb-2014 07:20:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	245626	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1225317	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1078582	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	941746	3.99	
62 4-Methyl-2-pentanone (MIBK)	43	12.541	12.524	0.017	79	4412	0.0304	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-12.D

Injection Date: 10-Feb-2014 21:18:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-12

Lab Sample ID: 140-851-12

Worklist Smp#: 15

Client ID: 10511

Purge Vol: 500.000 mL

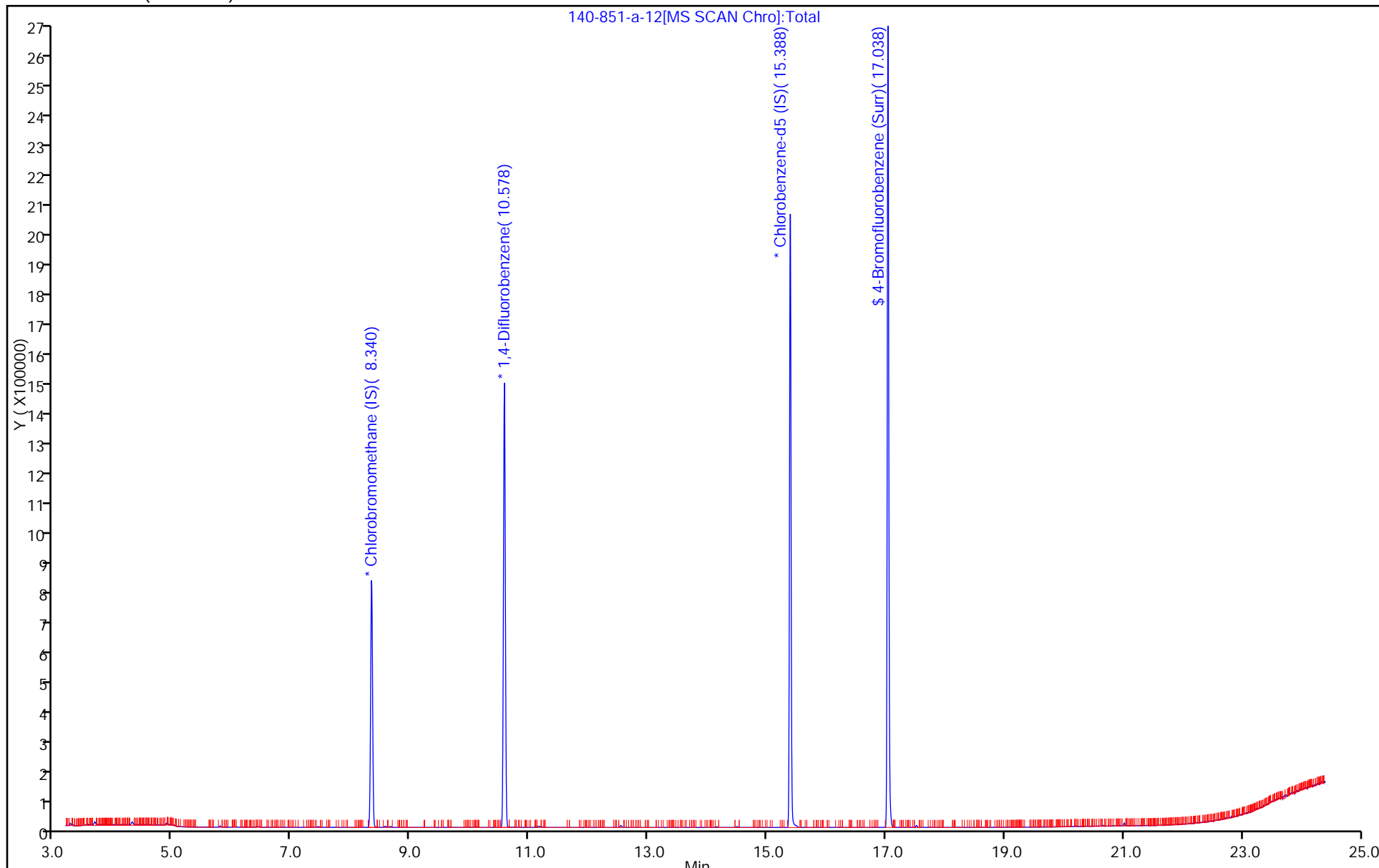
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09821 Lab Sample ID: 140-851-13
 Matrix: Air Lab File ID: 140-851-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 22:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09821 Lab Sample ID: 140-851-13
 Matrix: Air Lab File ID: 140-851-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 22:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09821 Lab Sample ID: 140-851-13
 Matrix: Air Lab File ID: 140-851-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 22:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 09821 Lab Sample ID: 140-851-13
 Matrix: Air Lab File ID: 140-851-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 22:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-13.D
 Lims ID: 140-851-A-13 Lab Sample ID: 140-851-13
 Client ID: 09821
 Sample Type: Client
 Inject. Date: 10-Feb-2014 22:03:30 ALS Bottle#: 13 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09821
 Misc. Info.: E021014,TO155,,140-0000422-016
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:21:01 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh

Date: 11-Feb-2014 07:21:01

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	243994	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1235088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1080230	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	85	960519	4.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	82	7073	0.0483	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-13.D

Injection Date: 10-Feb-2014 22:03:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-13

Lab Sample ID: 140-851-13

Worklist Smp#: 16

Client ID: 09821

Purge Vol: 500.000 mL

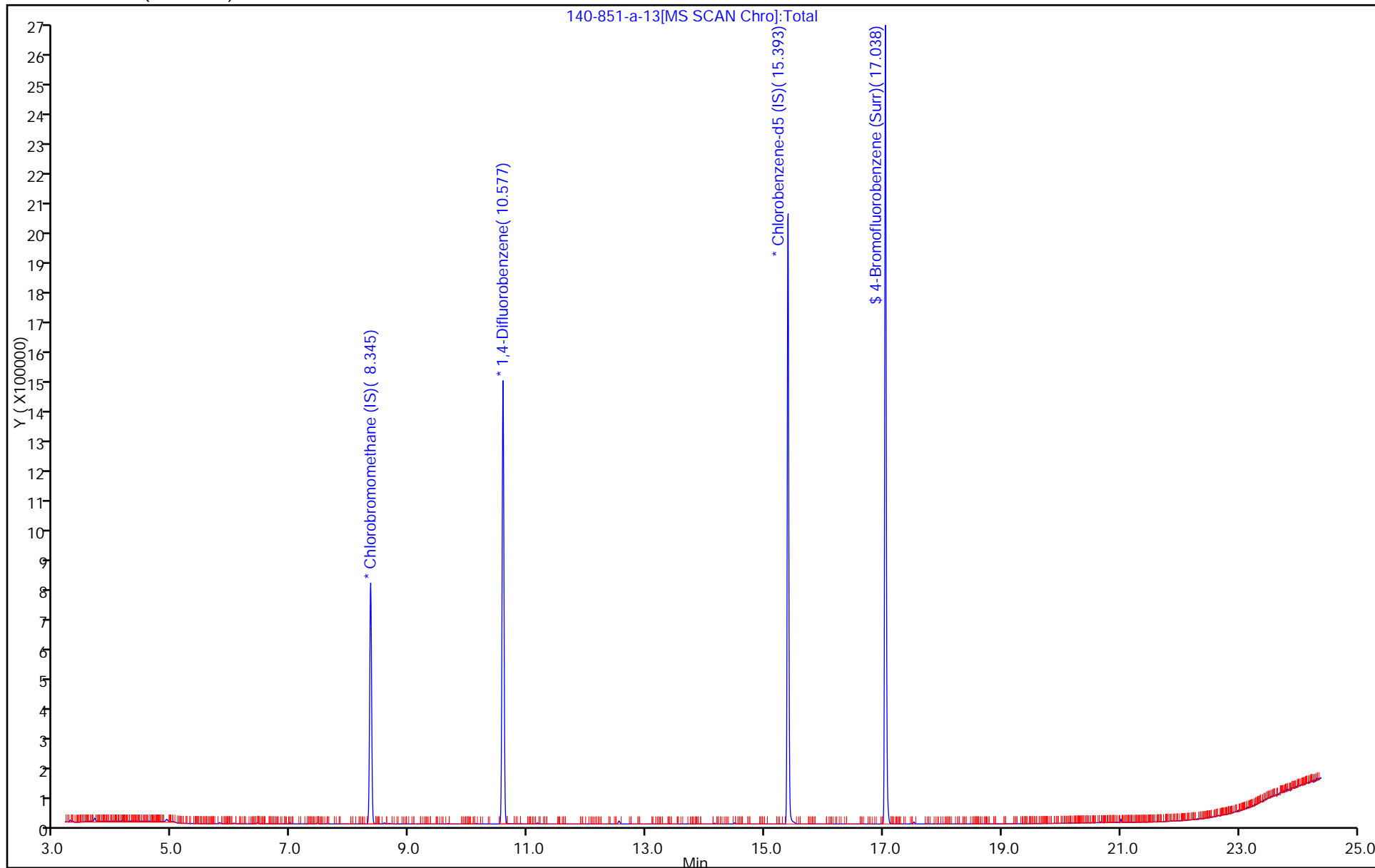
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10572 Lab Sample ID: 140-851-14
 Matrix: Air Lab File ID: 140-851-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 22:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10572 Lab Sample ID: 140-851-14
 Matrix: Air Lab File ID: 140-851-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 22:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10572 Lab Sample ID: 140-851-14
 Matrix: Air Lab File ID: 140-851-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/10/2014 22:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-851-1
 SDG No.: _____
 Client Sample ID: 10572 Lab Sample ID: 140-851-14
 Matrix: Air Lab File ID: 140-851-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/08/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/10/2014 22:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-14.D
 Lims ID: 140-851-A-14 Lab Sample ID: 140-851-14
 Client ID: 10572
 Sample Type: Client
 Inject. Date: 10-Feb-2014 22:48:30 ALS Bottle#: 14 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10572
 Misc. Info.: E021014,TO155,,140-0000422-017
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:21:25 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:21:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	234073	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1113049	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	988515	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	862264	3.98	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-851-a-14.D

Injection Date: 10-Feb-2014 22:48:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-851-A-14

Lab Sample ID: 140-851-14

Worklist Smp#: 17

Client ID: 10572

Purge Vol: 500.000 mL

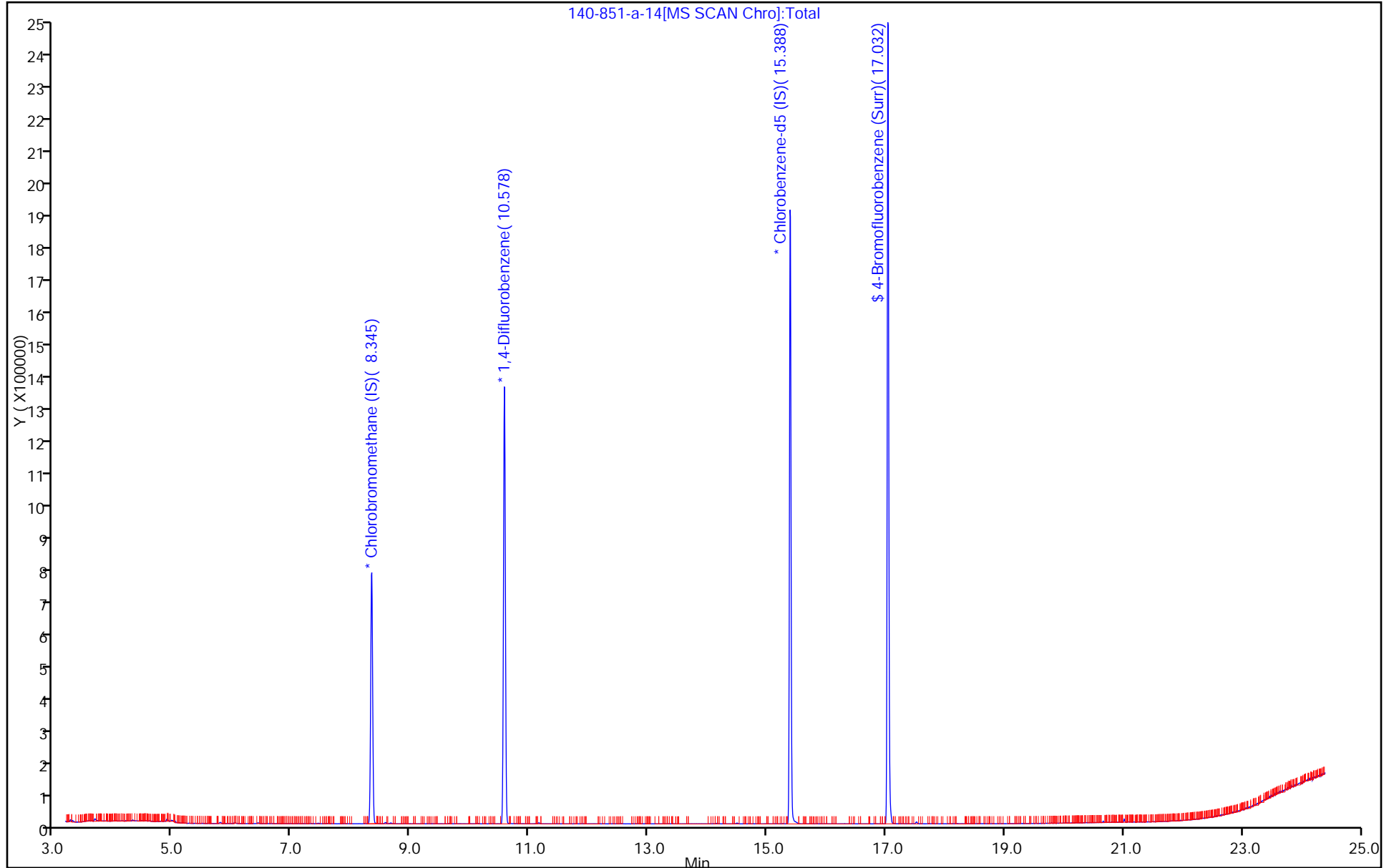
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-867-1
 SDG No.: _____
 Client Sample ID: 09607 Lab Sample ID: 140-867-1
 Matrix: Air Lab File ID: 140-867-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/14/2014 12:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-867-1
 SDG No.: _____
 Client Sample ID: 09607 Lab Sample ID: 140-867-1
 Matrix: Air Lab File ID: 140-867-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/14/2014 12:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-867-1
 SDG No.: _____
 Client Sample ID: 09607 Lab Sample ID: 140-867-1
 Matrix: Air Lab File ID: 140-867-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/14/2014 12:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-867-1
 SDG No.: _____
 Client Sample ID: 09607 Lab Sample ID: 140-867-1
 Matrix: Air Lab File ID: 140-867-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/14/2014 12:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140212-436.b\140-867-a-1.D
 Lims ID: 140-867-A-1 Lab Sample ID: 140-867-1
 Client ID: 09607
 Sample Type: Client
 Inject. Date: 14-Feb-2014 12:34:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09607
 Misc. Info.: E021414,TO155,,140-0000436-004
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140212-436.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Feb-2014 13:38:18 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: tajh Date: 14-Feb-2014 13:38:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	264303	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1338617	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	90	1155742	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	86	981450	3.88	
7 Propene	41	3.314	3.314	0.0	88	2154	0.0324	
9 Chloromethane	52	3.540	3.535	0.005	64	1704	0.0730	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	85	8066	0.0508	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140212-436.b\140-867-a-1.D

Injection Date: 14-Feb-2014 12:34:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-867-A-1

Lab Sample ID: 140-867-1

Worklist Smp#: 4

Client ID: 09607

Purge Vol: 500.000 mL

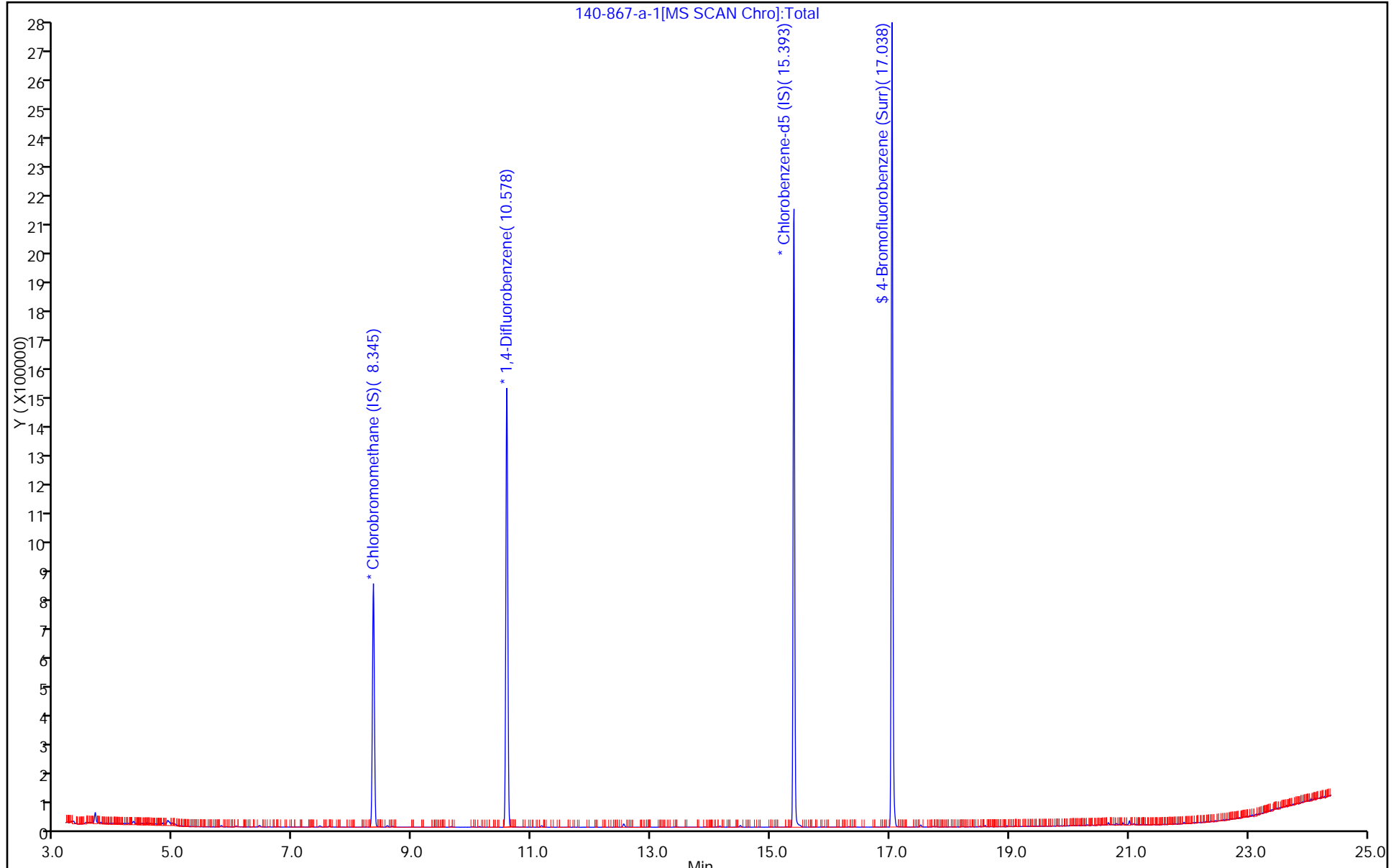
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09991 Lab Sample ID: 140-874-1
 Matrix: Air Lab File ID: 140-874-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	0.087		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09991 Lab Sample ID: 140-874-1
 Matrix: Air Lab File ID: 140-874-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	0.31		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	1.3		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09991 Lab Sample ID: 140-874-1
 Matrix: Air Lab File ID: 140-874-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
SDG No.: _____
Client Sample ID: 09991 Lab Sample ID: 140-874-1
Matrix: Air Lab File ID: 140-874-a-1.D
Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 18:07
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D
 Lims ID: 140-874-A-1 Lab Sample ID: 140-874-1
 Client ID: 09991
 Sample Type: Client
 Inject. Date: 16-Feb-2014 18:07:30 ALS Bottle#: 5 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09991
 Misc. Info.: E021614,TO155,,140-0000438-008
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:38:49 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:38:49

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	239026	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1141900	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	998911	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	856309	3.91	
6 Chlorodifluoromethane	67	3.298	3.303	-0.005	75	1641	0.0490	
7 Propene	41	3.319	3.314	0.005	51	6268	0.1042	
14 Butane	43	3.772	3.778	-0.006	90	35087	0.3070	
17 Ethanol	31	4.301	4.317	-0.016	98	30227	1.26	
19 2-Methylbutane	43	4.538	4.543	-0.005	79	4493	0.0537	
21 Trichlorofluoromethane	101	4.748	4.754	-0.006	90	14496	0.0547	
23 Acetone	58	4.878	4.883	-0.005	93	27782	0.7674	
25 Pentane	72	4.959	4.964	-0.005	91	2095	0.1335	
24 Isopropyl alcohol	45	4.969	4.969	0.0	15	4534	0.0486	
31 Methylene Chloride	84	5.784	5.794	-0.010	83	12911	0.1890	
39 2-Butanone (MEK)	72	7.601	7.585	0.016	93	3361	0.0859	
40 Hexane	56	7.596	7.590	0.006	46	1527	0.0240	
44 Tetrahydrofuran	42	8.777	8.760	0.016	75	5902	0.0963	
48 Benzene	78	9.990	10.000	-0.010	60	6452	0.0281	
59 1,4-Dioxane	88	11.586	11.570	0.016	60	2640	0.0866	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	84	9592	0.0709	
97 1,4-Dichlorobenzene	146	18.596	18.596	0.0	88	17013	0.0868	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date: 16-Feb-2014 18:07:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-1

Lab Sample ID: 140-874-1

Worklist Smp#: 8

Client ID: 09991

Purge Vol: 500.000 mL

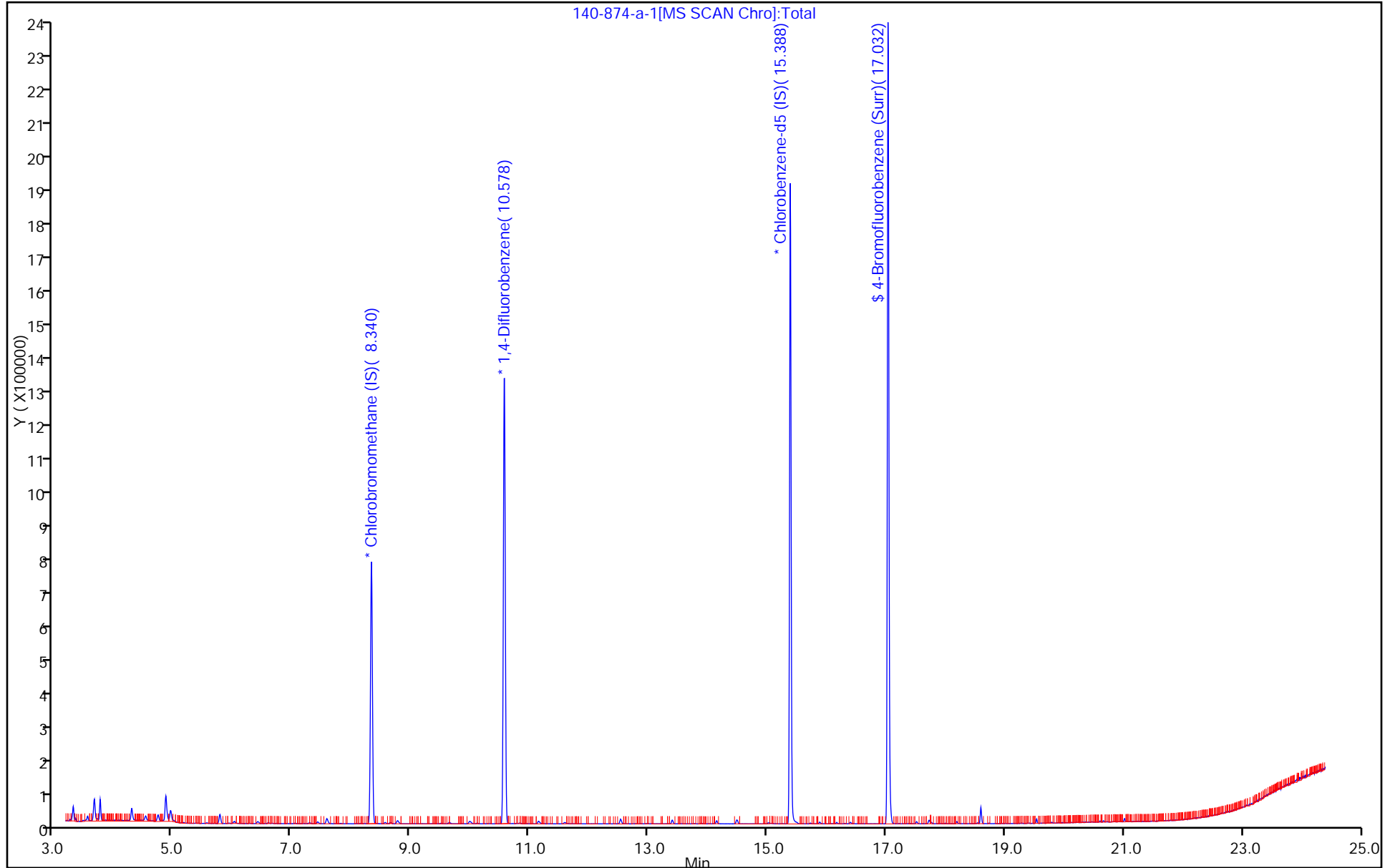
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date: 16-Feb-2014 18:07:30

Instrument ID: ME

Lims ID: 140-874-A-1

Lab Sample ID: 140-874-1

Client ID: 09991

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

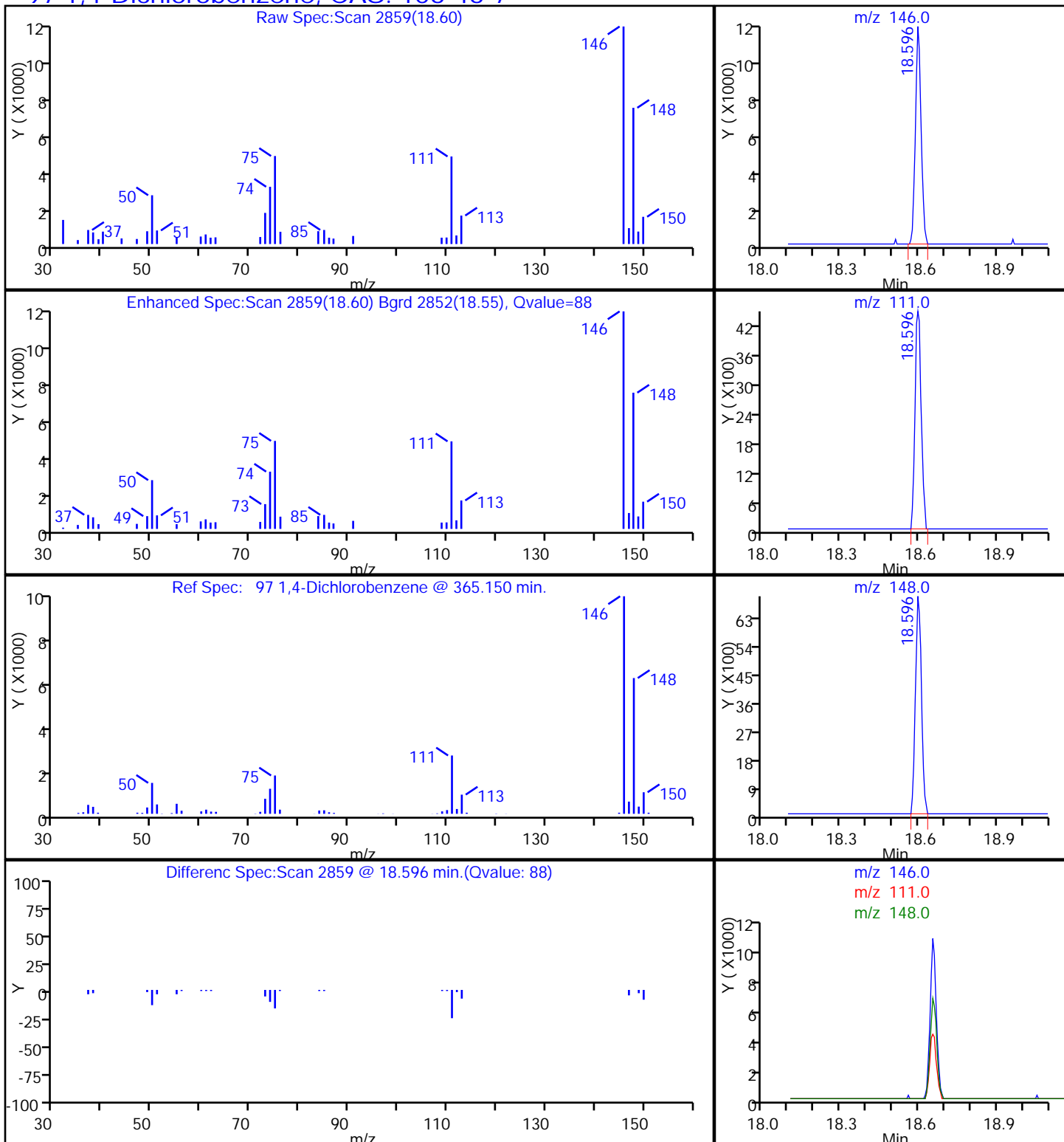
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date: 16-Feb-2014 18:07:30

Instrument ID: ME

Lims ID: 140-874-A-1

Lab Sample ID: 140-874-1

Client ID: 09991

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

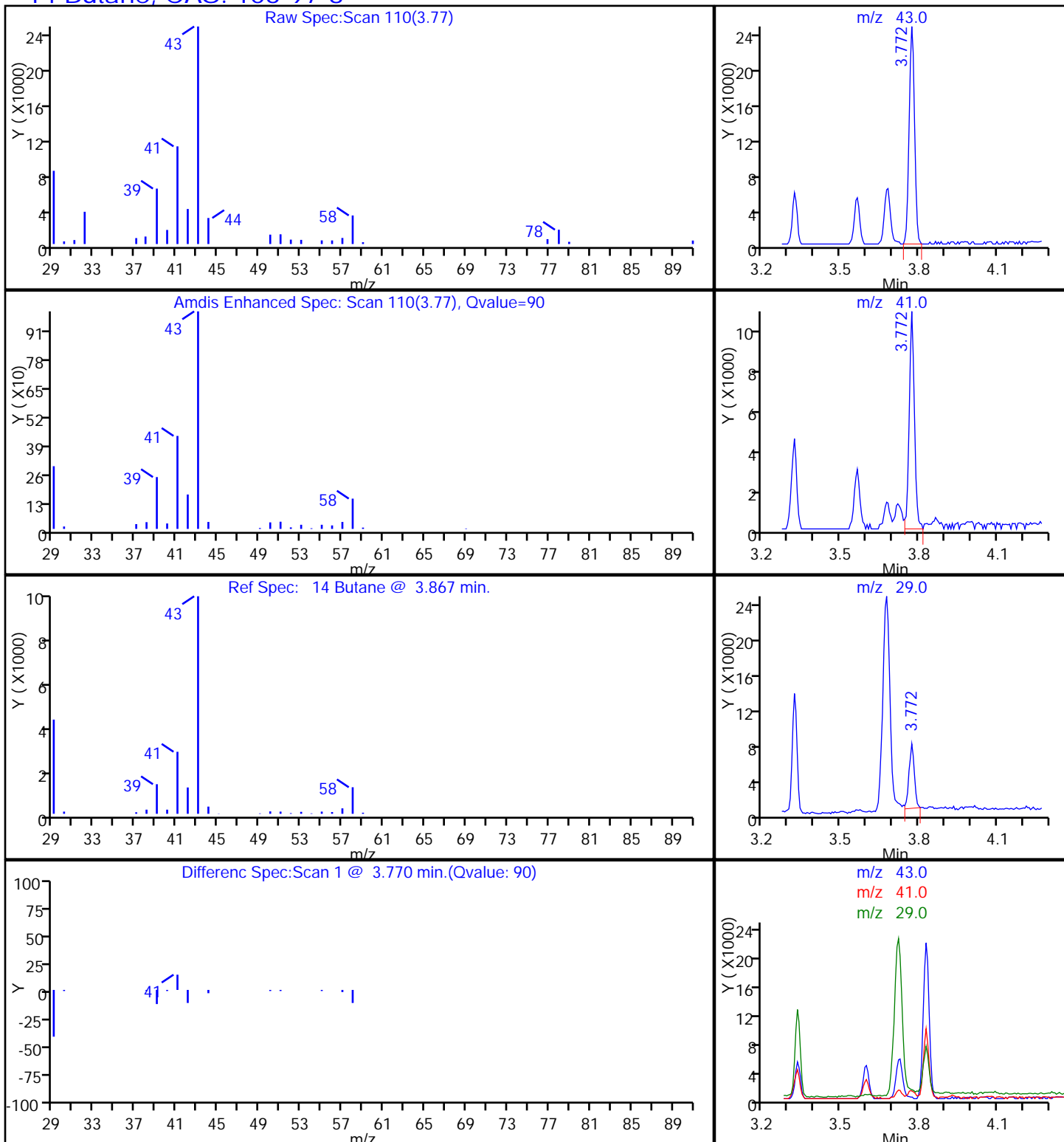
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

14 Butane, CAS: 106-97-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-1.D

Injection Date: 16-Feb-2014 18:07:30

Instrument ID: ME

Lims ID: 140-874-A-1

Lab Sample ID: 140-874-1

Client ID: 09991

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

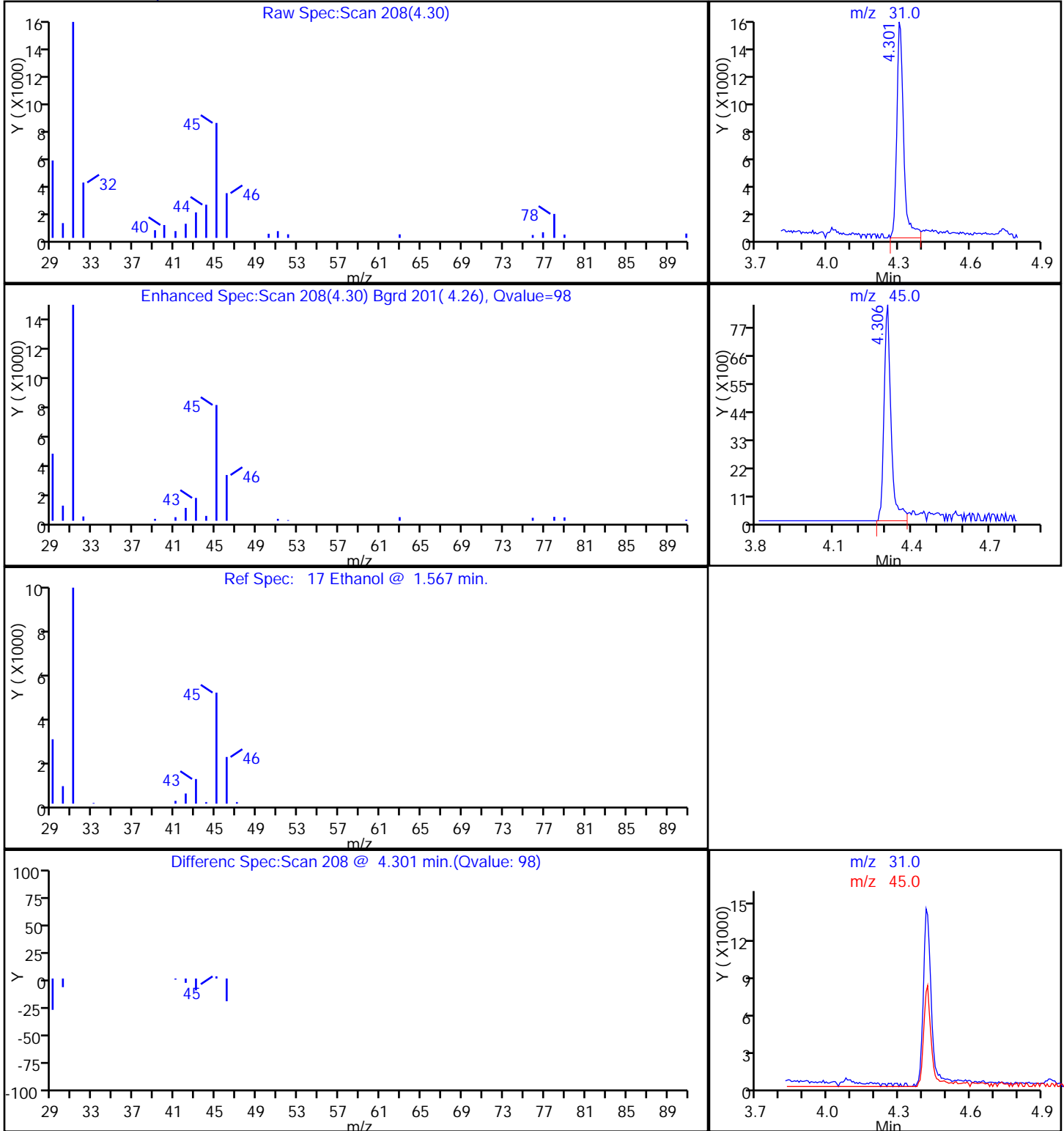
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10885 Lab Sample ID: 140-874-2
 Matrix: Air Lab File ID: 140-874-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10885 Lab Sample ID: 140-874-2
 Matrix: Air Lab File ID: 140-874-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10885 Lab Sample ID: 140-874-2
 Matrix: Air Lab File ID: 140-874-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10885 Lab Sample ID: 140-874-2
 Matrix: Air Lab File ID: 140-874-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-2.D
 Lims ID: 140-874-A-2 Lab Sample ID: 140-874-2
 Client ID: 10885
 Sample Type: Client
 Inject. Date: 16-Feb-2014 18:52:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10885
 Misc. Info.: E021614,TO155,,140-0000438-009
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:40:40 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:40:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	231329	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	95	1148229	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	91	1038120	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	907537	3.99	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	64	2518	0.0185	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-2.D

Injection Date: 16-Feb-2014 18:52:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-2

Lab Sample ID: 140-874-2

Worklist Smp#: 9

Client ID: 10885

Purge Vol: 500.000 mL

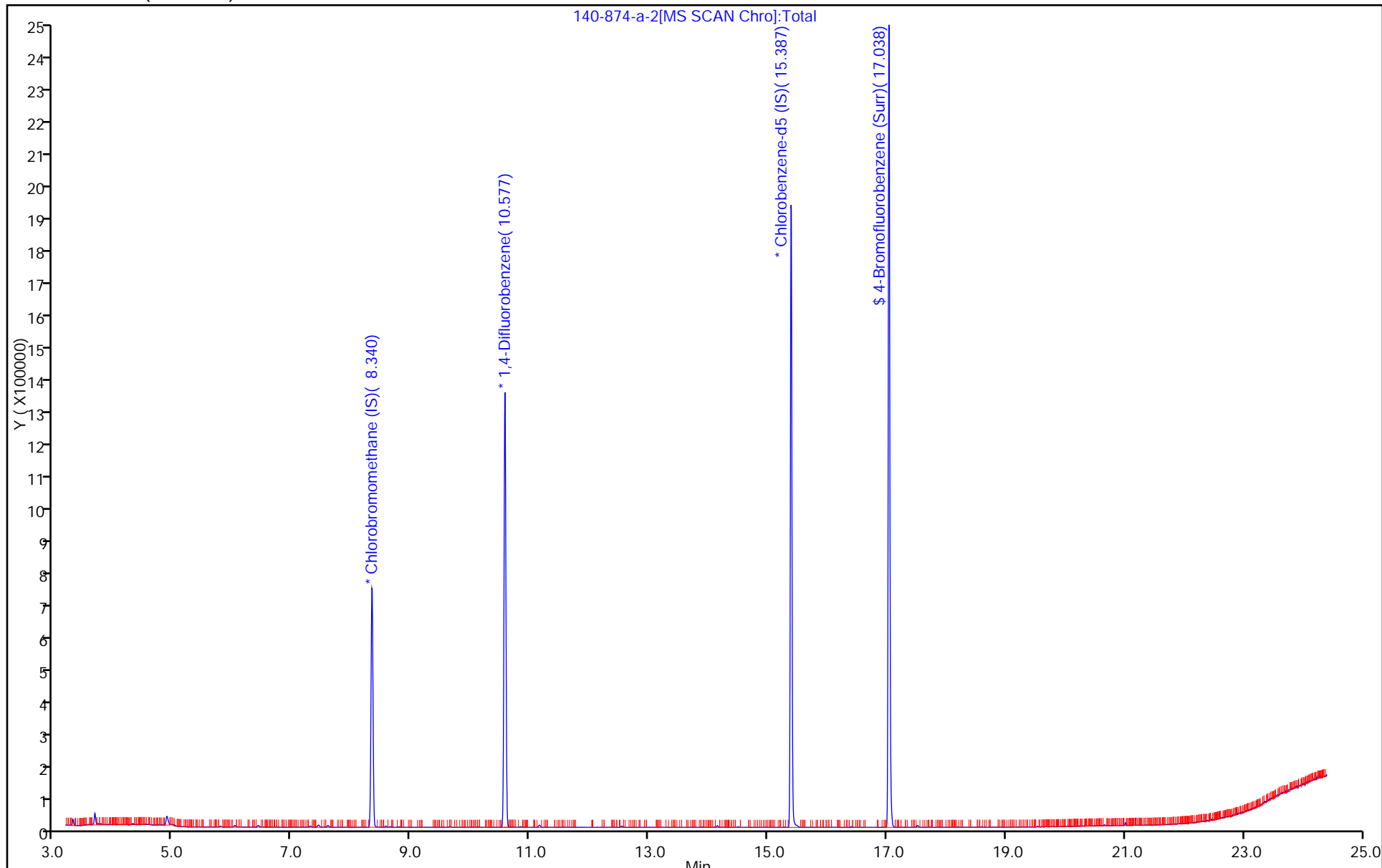
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09670 Lab Sample ID: 140-874-4
 Matrix: Air Lab File ID: 140-874-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09670 Lab Sample ID: 140-874-4
 Matrix: Air Lab File ID: 140-874-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09670 Lab Sample ID: 140-874-4
 Matrix: Air Lab File ID: 140-874-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09670 Lab Sample ID: 140-874-4
 Matrix: Air Lab File ID: 140-874-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-4.D
 Lims ID: 140-874-A-4 Lab Sample ID: 140-874-4
 Client ID: 09670
 Sample Type: Client
 Inject. Date: 16-Feb-2014 19:37:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09670
 Misc. Info.: E021614,TO155,,140-0000438-010
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:41:22 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:41:22

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	209512	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1006358	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	915676	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	796227	3.97	
7 Propene	41	3.320	3.314	0.006	78	2188	0.0415	
14 Butane	43	3.778	3.778	0.0	75	5286	0.0528	
44 Tetrahydrofuran	42	8.793	8.760	0.033	72	1511	0.0281	
73 Tetrachloroethene	129	14.552	14.557	-0.005	75	2904	0.0278	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-4.D

Injection Date: 16-Feb-2014 19:37:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-4

Lab Sample ID: 140-874-4

Worklist Smp#: 10

Client ID: 09670

Purge Vol: 500.000 mL

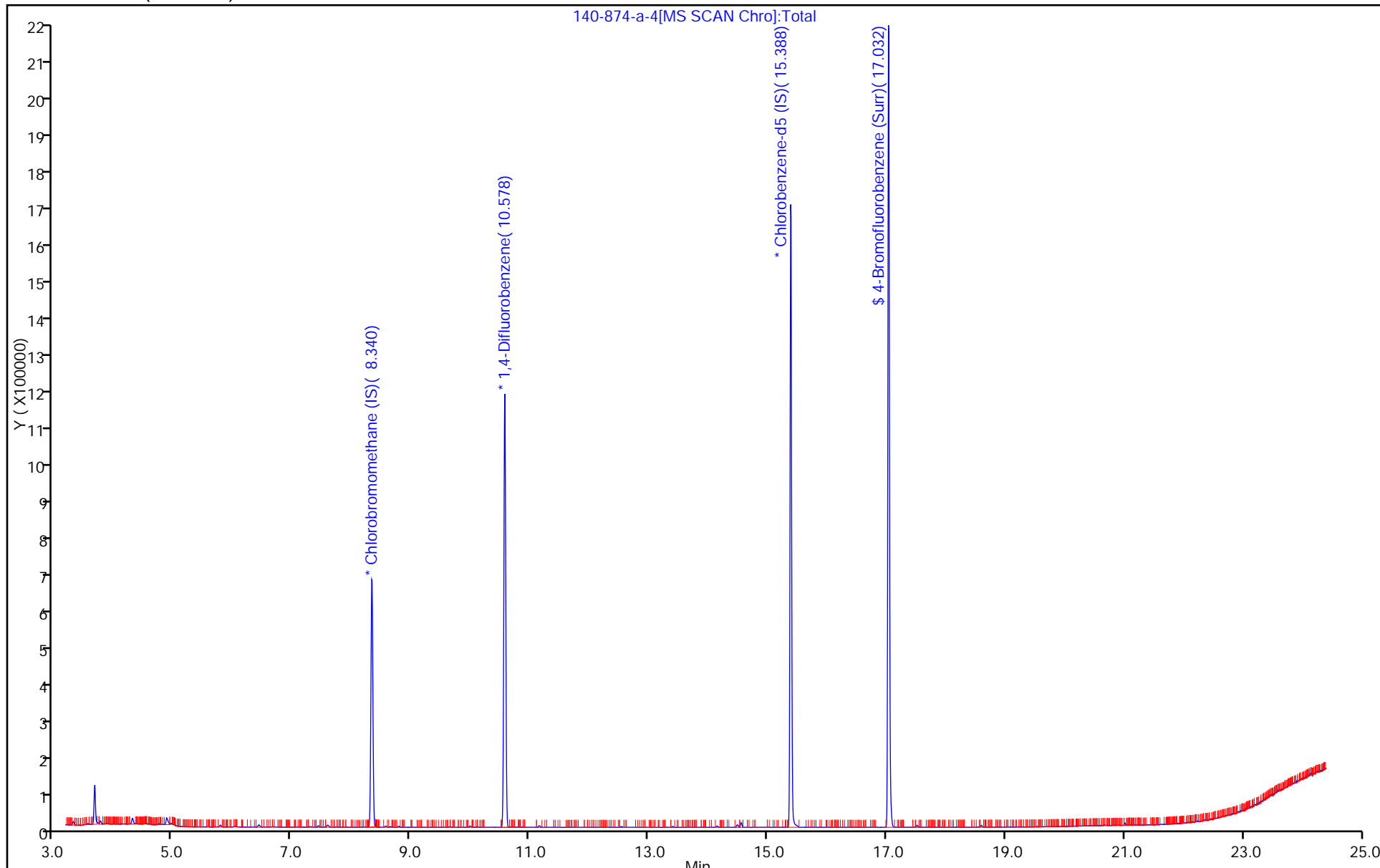
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10206 Lab Sample ID: 140-874-5
 Matrix: Air Lab File ID: 140-874-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 20:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10206 Lab Sample ID: 140-874-5
 Matrix: Air Lab File ID: 140-874-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 20:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	0.14		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	0.95		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10206 Lab Sample ID: 140-874-5
 Matrix: Air Lab File ID: 140-874-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 20:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10206 Lab Sample ID: 140-874-5
 Matrix: Air Lab File ID: 140-874-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 20:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D
 Lims ID: 140-874-A-5 Lab Sample ID: 140-874-5
 Client ID: 10206
 Sample Type: Client
 Inject. Date: 16-Feb-2014 20:21:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10206
 Misc. Info.: E021614,TO155,,140-0000438-011
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:42:19 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:42:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	236183	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1188120	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1035432	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	888915	3.92	
9 Chloromethane	52	3.530	3.535	-0.005	96	3384	0.1623	
14 Butane	43	3.681	3.778	-0.097	5	7281	0.0645	
17 Ethanol	31	4.306	4.317	-0.011	98	22441	0.9500	
44 Tetrahydrofuran	42	8.793	8.760	0.033	71	2301	0.0380	
78 m-Xylene & p-Xylene	91	15.884	15.889	-0.005	93	19550	0.0699	
82 o-Xylene	91	16.418	16.412	0.006	83	12072	0.0399	
89 1,3,5-Trimethylbenzene	120	17.782	17.782	0.0	77	4836	0.0279	
93 1,2,4-Trimethylbenzene	105	18.229	18.229	0.0	97	43693	0.1375	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D

Injection Date: 16-Feb-2014 20:21:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-5

Lab Sample ID: 140-874-5

Worklist Smp#: 11

Client ID: 10206

Purge Vol: 500.000 mL

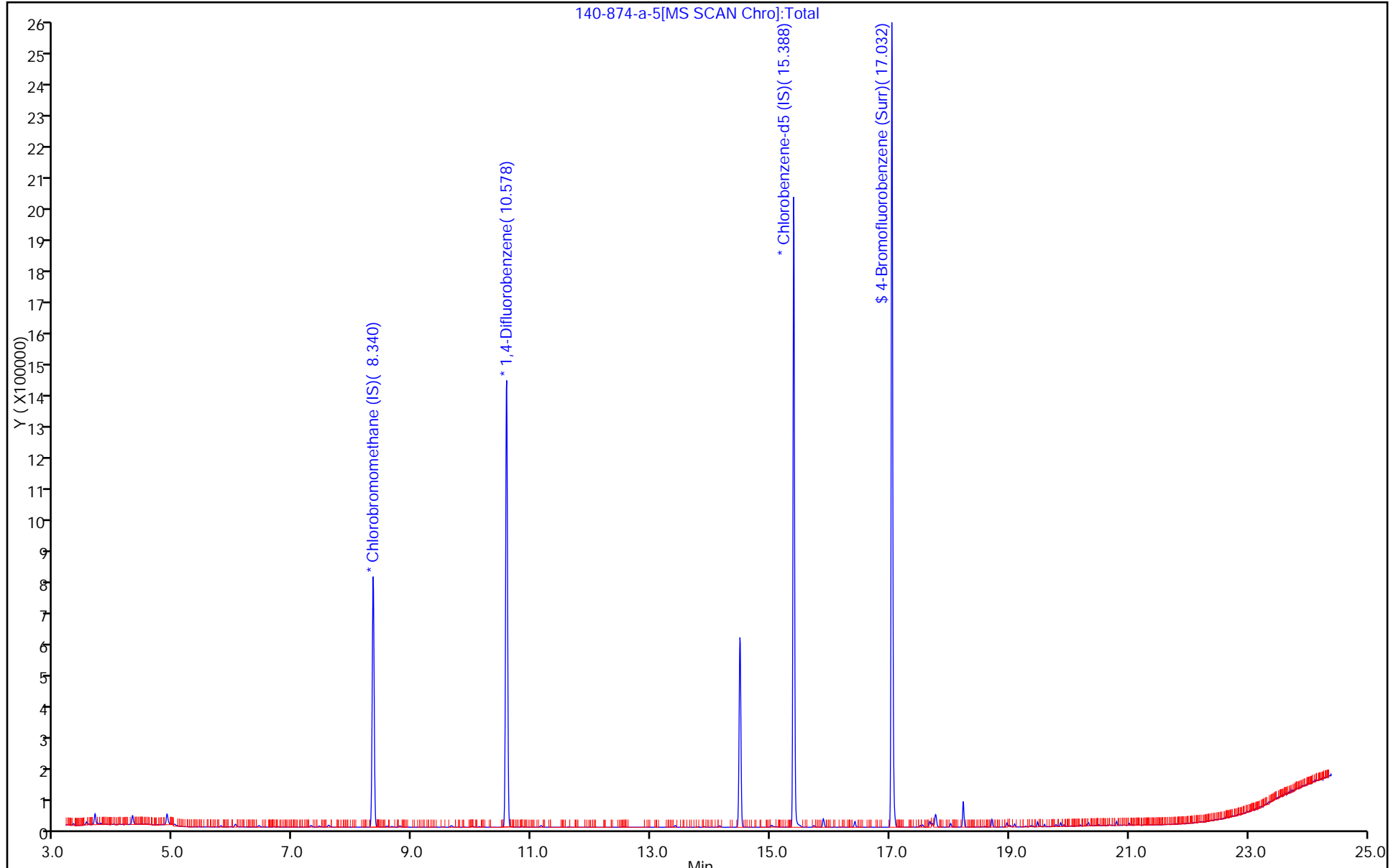
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D

Injection Date: 16-Feb-2014 20:21:30

Instrument ID: ME

Lims ID: 140-874-A-5

Lab Sample ID: 140-874-5

Client ID: 10206

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

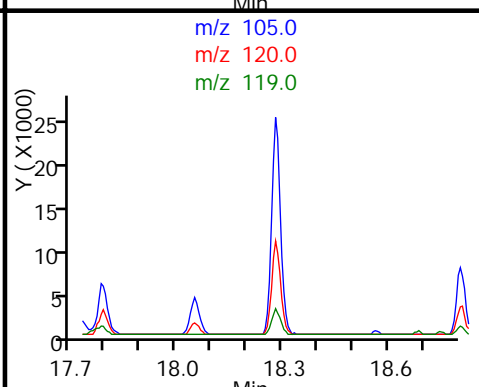
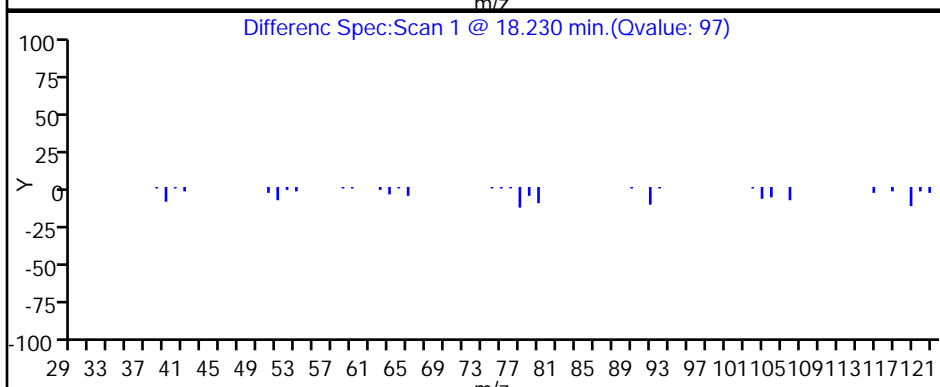
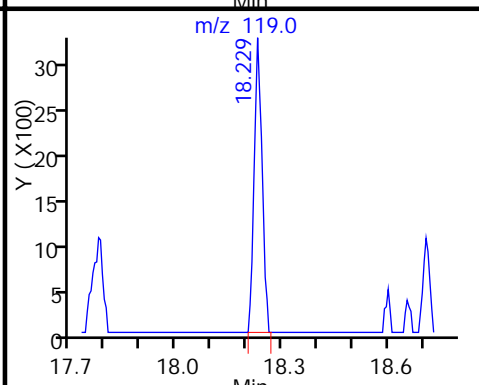
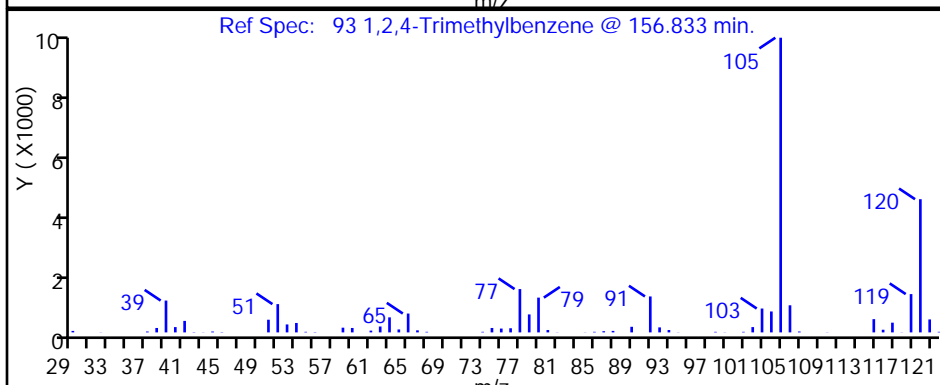
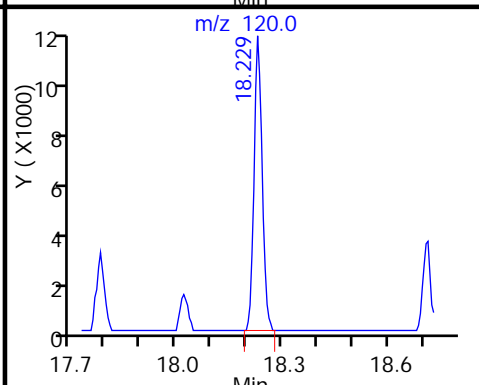
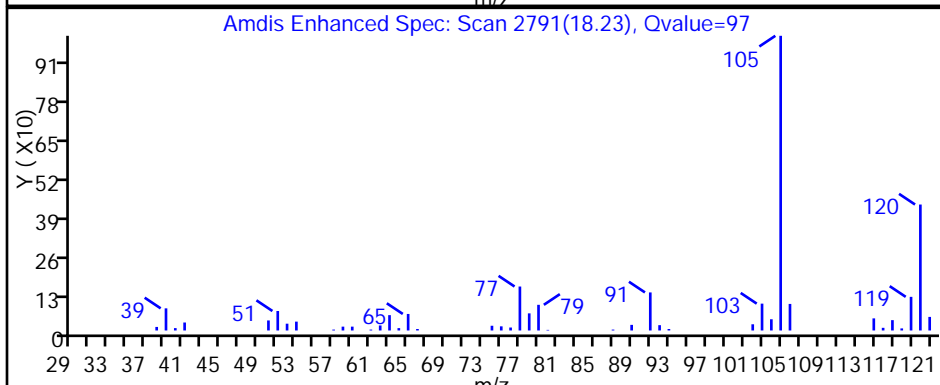
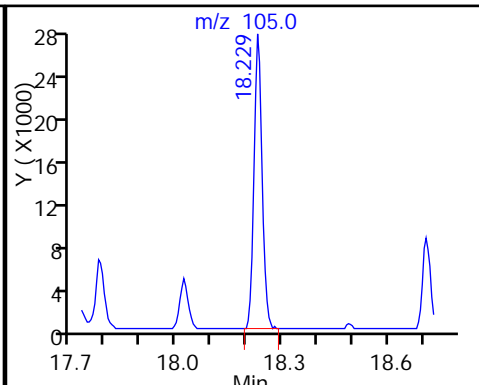
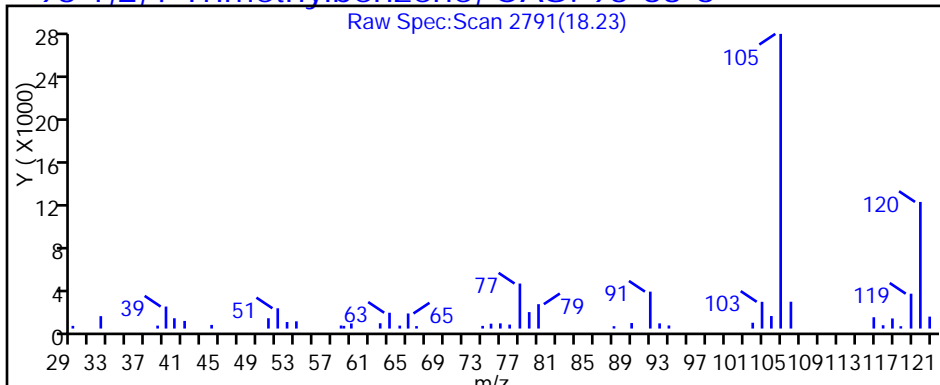
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-5.D

Injection Date: 16-Feb-2014 20:21:30

Instrument ID: ME

Lims ID: 140-874-A-5

Lab Sample ID: 140-874-5

Client ID: 10206

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

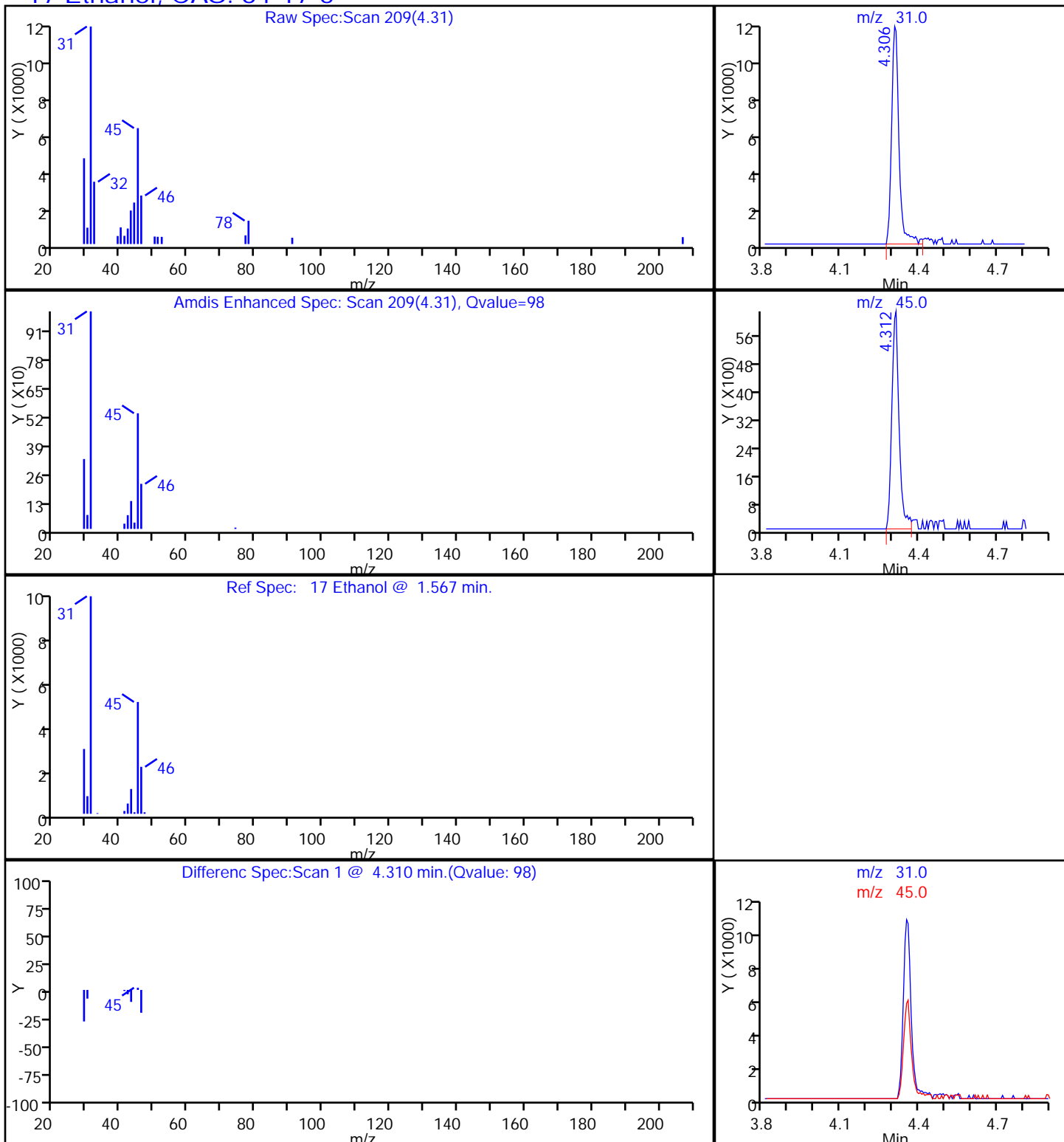
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10799 Lab Sample ID: 140-874-6
 Matrix: Air Lab File ID: 140-874-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10799 Lab Sample ID: 140-874-6
 Matrix: Air Lab File ID: 140-874-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	17		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10799 Lab Sample ID: 140-874-6
 Matrix: Air Lab File ID: 140-874-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10799 Lab Sample ID: 140-874-6
 Matrix: Air Lab File ID: 140-874-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 21:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D
 Lims ID: 140-874-A-6 Lab Sample ID: 140-874-6
 Client ID: 10799
 Sample Type: Client
 Inject. Date: 16-Feb-2014 21:06:30 ALS Bottle#: 9 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10799
 Misc. Info.: E021614,TO155,,140-0000438-012
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:51:30 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:51:30

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	235626	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1179987	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1022196	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.033	17.032	0.001	85	883790	3.95	
7 Propene	41	3.314	3.314	0.0	87	2152	0.0363	
17 Ethanol	31	4.312	4.317	-0.005	98	394242	16.7	
23 Acetone	58	4.883	4.883	0.0	100	21754	0.6095	
24 Isopropyl alcohol	45	4.970	4.969	0.001	48	5570	0.0606	
29 2-Methyl-2-propanol	59	5.579	5.552	0.027	66	4571	0.0351	
39 2-Butanone (MEK)	72	7.585	7.585	0.0	95	4733	0.1227	
44 Tetrahydrofuran	42	8.782	8.760	0.022	75	1876	0.0310	
53 Isooctane	57	10.788	10.793	-0.005	94	49327	0.1346	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.524	0.006	80	7042	0.0504	
69 2-Hexanone	58	13.883	13.878	0.005	75	3370	0.0521	
98 4-Isopropyltoluene	119	18.656	18.655	0.001	68	11191	0.0313	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D

Injection Date: 16-Feb-2014 21:06:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-6

Lab Sample ID: 140-874-6

Worklist Smp#: 12

Client ID: 10799

Purge Vol: 500.000 mL

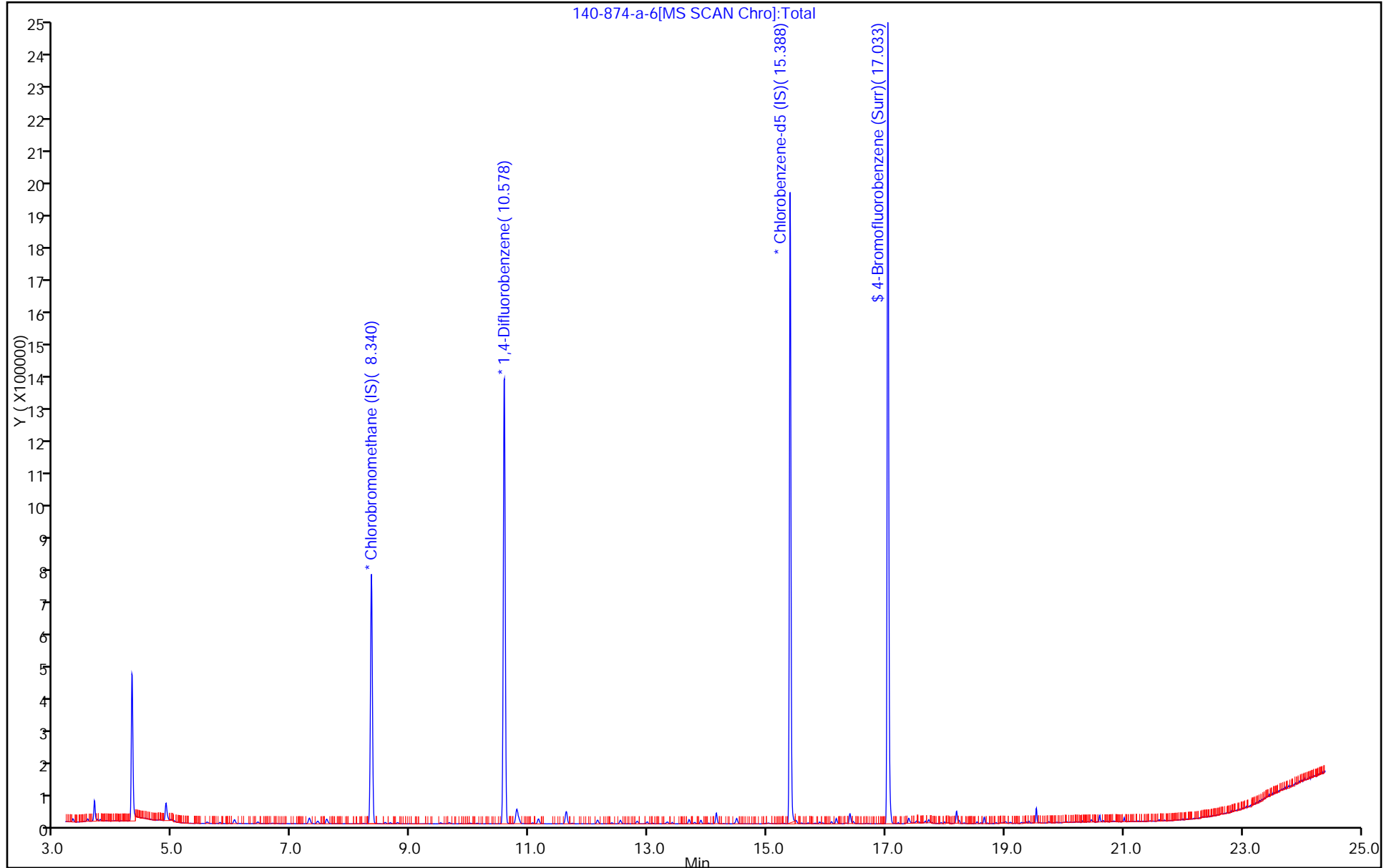
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-6.D

Injection Date: 16-Feb-2014 21:06:30

Instrument ID: ME

Lims ID: 140-874-A-6

Lab Sample ID: 140-874-6

Client ID: 10799

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

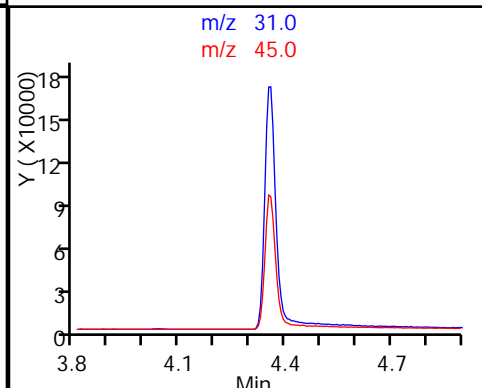
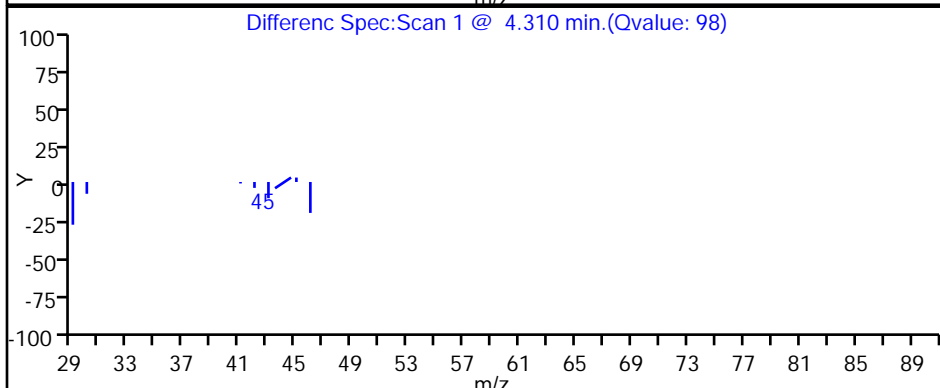
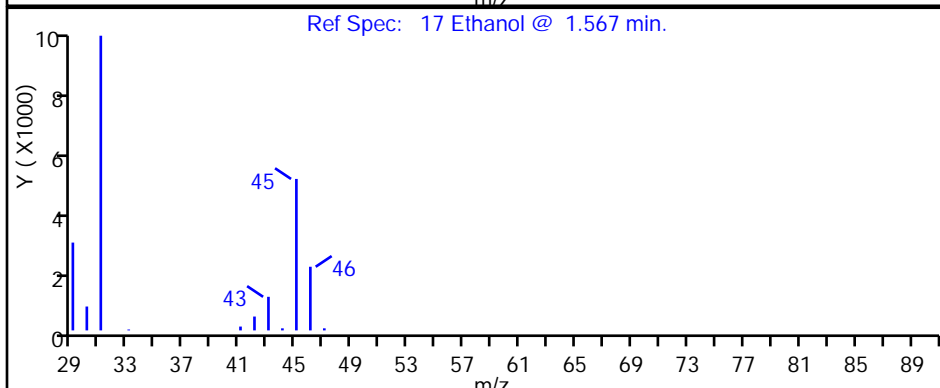
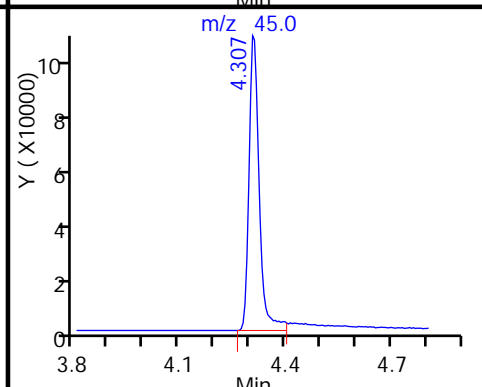
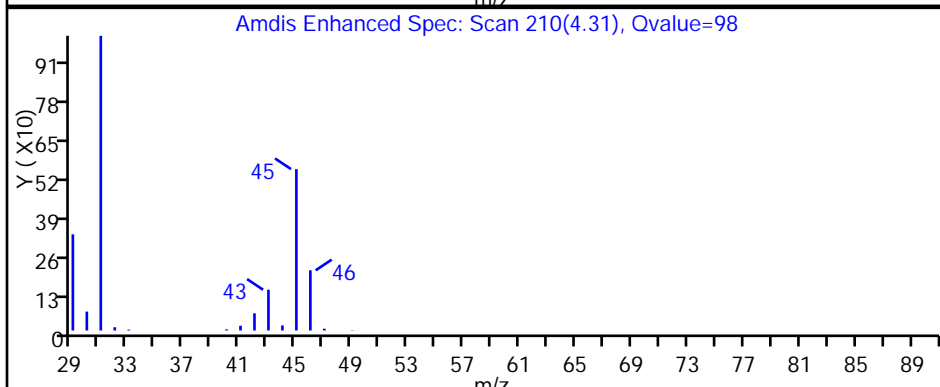
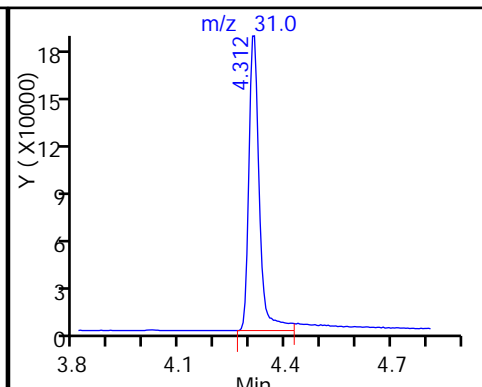
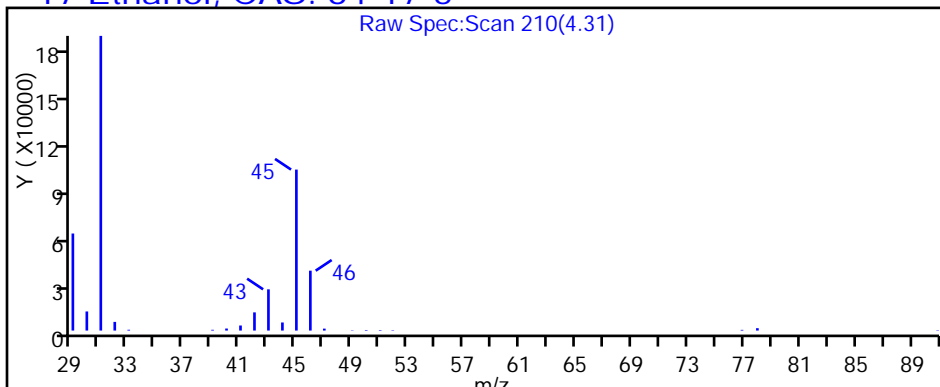
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09824 Lab Sample ID: 140-874-7
 Matrix: Air Lab File ID: 140-874-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09824 Lab Sample ID: 140-874-7
 Matrix: Air Lab File ID: 140-874-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09824 Lab Sample ID: 140-874-7
 Matrix: Air Lab File ID: 140-874-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 21:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09824 Lab Sample ID: 140-874-7
 Matrix: Air Lab File ID: 140-874-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 21:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-7.D
 Lims ID: 140-874-A-7 Lab Sample ID: 140-874-7
 Client ID: 09824
 Sample Type: Client
 Inject. Date: 16-Feb-2014 21:51:30 ALS Bottle#: 10 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09824
 Misc. Info.: E021614,TO155,,140-0000438-013
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:52:13 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:52:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	220473	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1003954	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.387	0.0	92	889483	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	787231	4.04	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-7.D

Injection Date: 16-Feb-2014 21:51:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-7

Lab Sample ID: 140-874-7

Worklist Smp#: 13

Client ID: 09824

Purge Vol: 500.000 mL

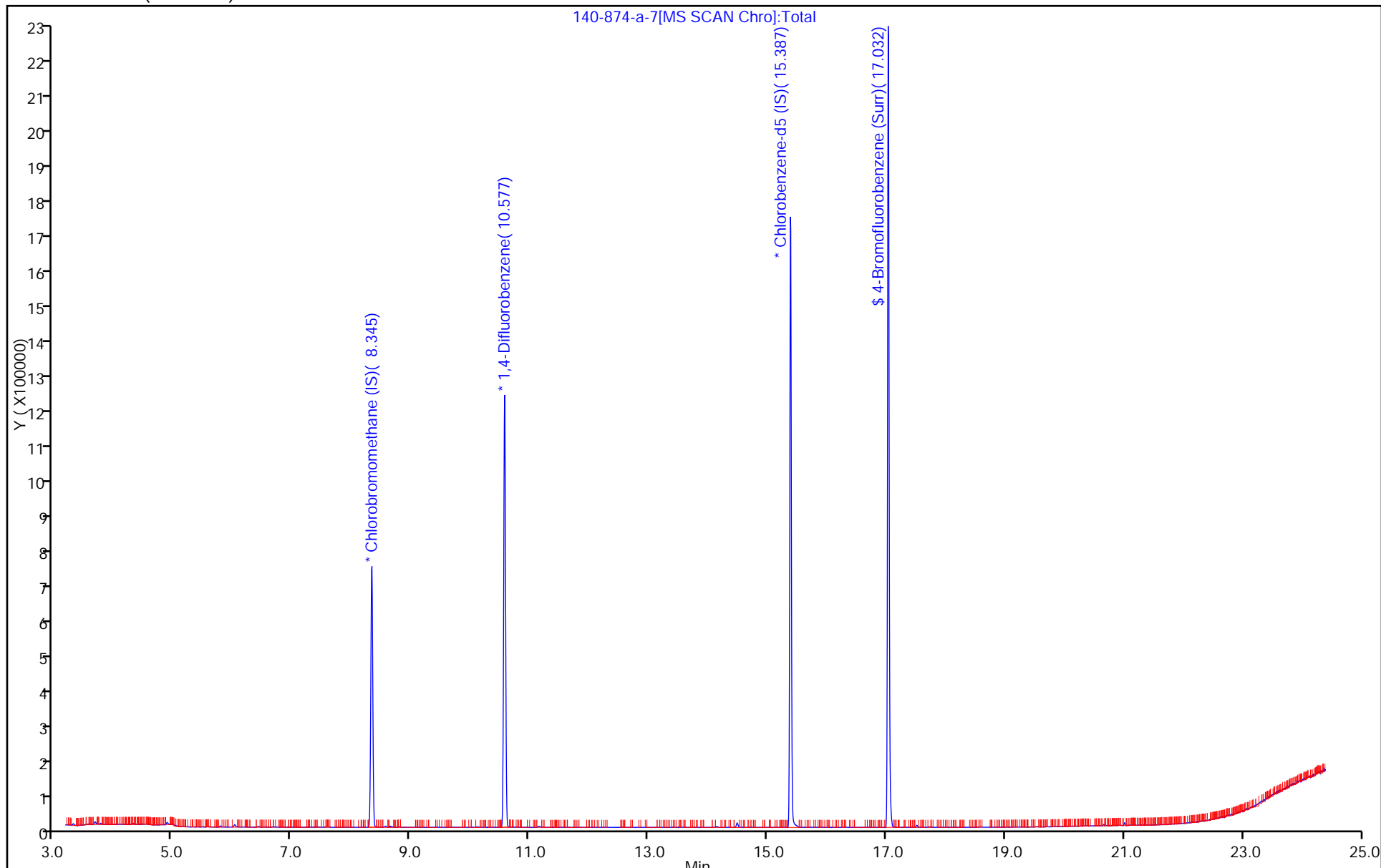
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09916 Lab Sample ID: 140-874-8
 Matrix: Air Lab File ID: 140-874-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 22:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09916 Lab Sample ID: 140-874-8
 Matrix: Air Lab File ID: 140-874-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 22:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09916 Lab Sample ID: 140-874-8
 Matrix: Air Lab File ID: 140-874-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 22:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09916 Lab Sample ID: 140-874-8
 Matrix: Air Lab File ID: 140-874-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 22:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-8.D
 Lims ID: 140-874-A-8 Lab Sample ID: 140-874-8
 Client ID: 09916
 Sample Type: Client
 Inject. Date: 16-Feb-2014 22:36:30 ALS Bottle#: 11 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09916
 Misc. Info.: E021614,TO155,,140-0000438-014
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:52:42 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:52:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	229007	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1142533	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1009607	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	889551	4.02	
44 Tetrahydrofuran	42	8.793	8.760	0.033	68	2251	0.0383	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	74	4585	0.0339	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-8.D

Injection Date: 16-Feb-2014 22:36:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-8

Lab Sample ID: 140-874-8

Worklist Smp#: 14

Client ID: 09916

Purge Vol: 500.000 mL

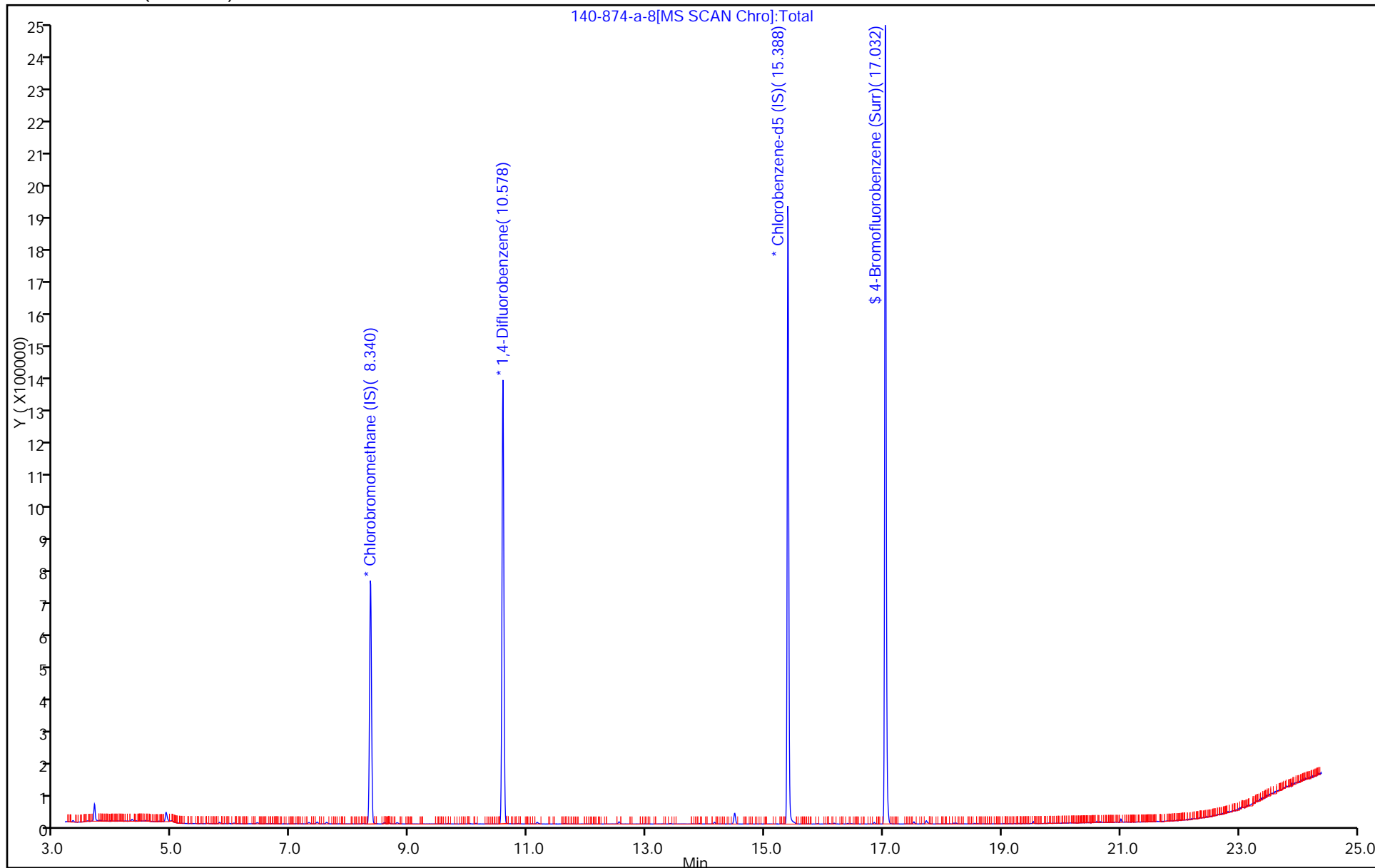
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10815 Lab Sample ID: 140-874-9
 Matrix: Air Lab File ID: 140-874-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 23:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10815 Lab Sample ID: 140-874-9
 Matrix: Air Lab File ID: 140-874-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 23:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10815 Lab Sample ID: 140-874-9
 Matrix: Air Lab File ID: 140-874-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 23:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10815 Lab Sample ID: 140-874-9
 Matrix: Air Lab File ID: 140-874-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 23:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-9.D
 Lims ID: 140-874-A-9 Lab Sample ID: 140-874-9
 Client ID: 10815
 Sample Type: Client
 Inject. Date: 16-Feb-2014 23:21:30 ALS Bottle#: 12 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10815
 Misc. Info.: E021614,TO155,,140-0000438-015
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:53:13 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:53:13

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	211878	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1007012	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	934303	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	812938	3.97	
7 Propene	41	3.319	3.314	0.005	75	1766	0.0331	
14 Butane	43	3.772	3.778	-0.006	76	3136	0.0310	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-9.D

Injection Date: 16-Feb-2014 23:21:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-9

Lab Sample ID: 140-874-9

Worklist Smp#: 15

Client ID: 10815

Purge Vol: 500.000 mL

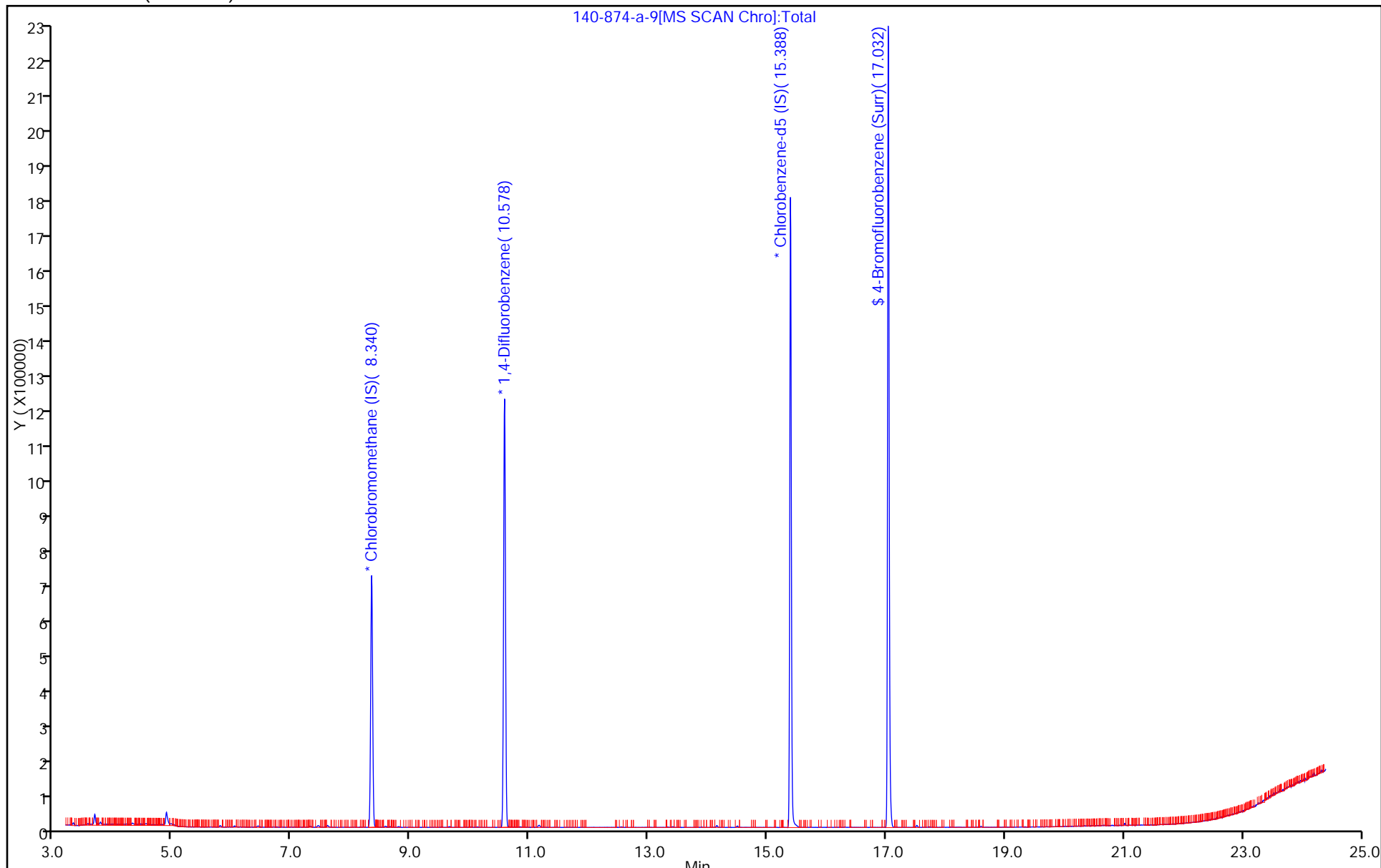
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10103 Lab Sample ID: 140-874-10
 Matrix: Air Lab File ID: 140-874-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 00:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10103 Lab Sample ID: 140-874-10
 Matrix: Air Lab File ID: 140-874-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 00:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10103 Lab Sample ID: 140-874-10
 Matrix: Air Lab File ID: 140-874-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 00:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10103 Lab Sample ID: 140-874-10
 Matrix: Air Lab File ID: 140-874-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 00:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-10.D
 Lims ID: 140-874-A-10 Lab Sample ID: 140-874-10
 Client ID: 10103
 Sample Type: Client
 Inject. Date: 17-Feb-2014 00:06:30 ALS Bottle#: 13 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10103
 Misc. Info.: E021614,TO155,,140-0000438-016
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:53:40 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:53:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	234776	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1154768	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	995446	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	860520	3.95	
7 Propene	41	3.314	3.314	0.0	92	3636	0.0616	
44 Tetrahydrofuran	42	8.787	8.760	0.027	63	2456	0.0408	
62 4-Methyl-2-pentanone (MIBK)	43	12.546	12.524	0.022	74	3671	0.0268	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-10.D

Injection Date: 17-Feb-2014 00:06:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-10

Lab Sample ID: 140-874-10

Worklist Smp#: 16

Client ID: 10103

Purge Vol: 500.000 mL

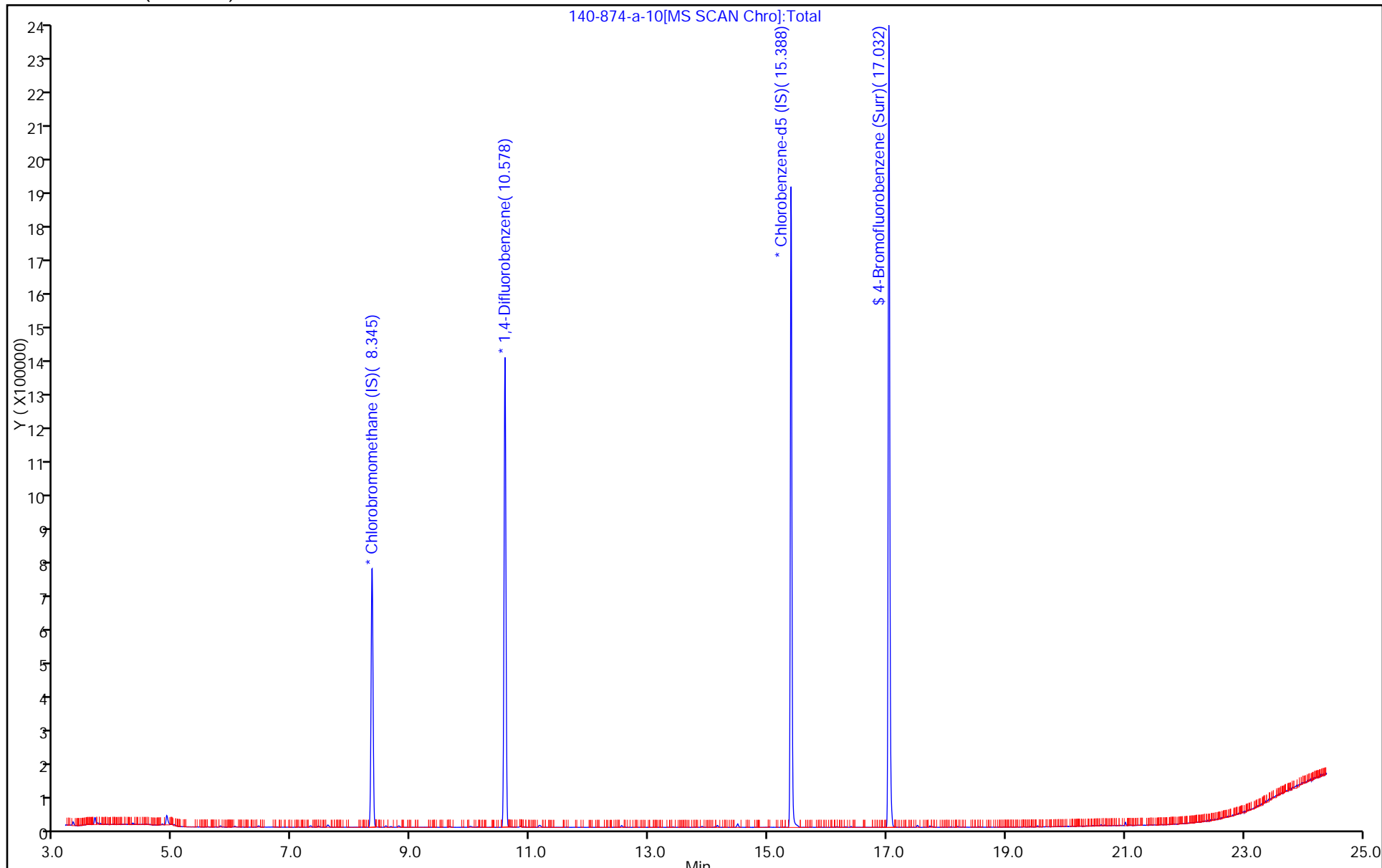
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09683 Lab Sample ID: 140-874-12
 Matrix: Air Lab File ID: 140-874-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 01:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09683 Lab Sample ID: 140-874-12
 Matrix: Air Lab File ID: 140-874-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 01:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09683 Lab Sample ID: 140-874-12
 Matrix: Air Lab File ID: 140-874-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 01:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09683 Lab Sample ID: 140-874-12
 Matrix: Air Lab File ID: 140-874-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 01:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-12.D
 Lims ID: 140-874-A-12 Lab Sample ID: 140-874-12
 Client ID: 09683
 Sample Type: Client
 Inject. Date: 17-Feb-2014 01:39:30 ALS Bottle#: 15 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09683
 Misc. Info.: E021614,TO155,,140-0000438-018
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:54:54 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:54:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	237697	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1197041	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1064948	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	947171	4.06	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-12.D

Injection Date: 17-Feb-2014 01:39:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-12

Lab Sample ID: 140-874-12

Worklist Smp#: 18

Client ID: 09683

Purge Vol: 500.000 mL

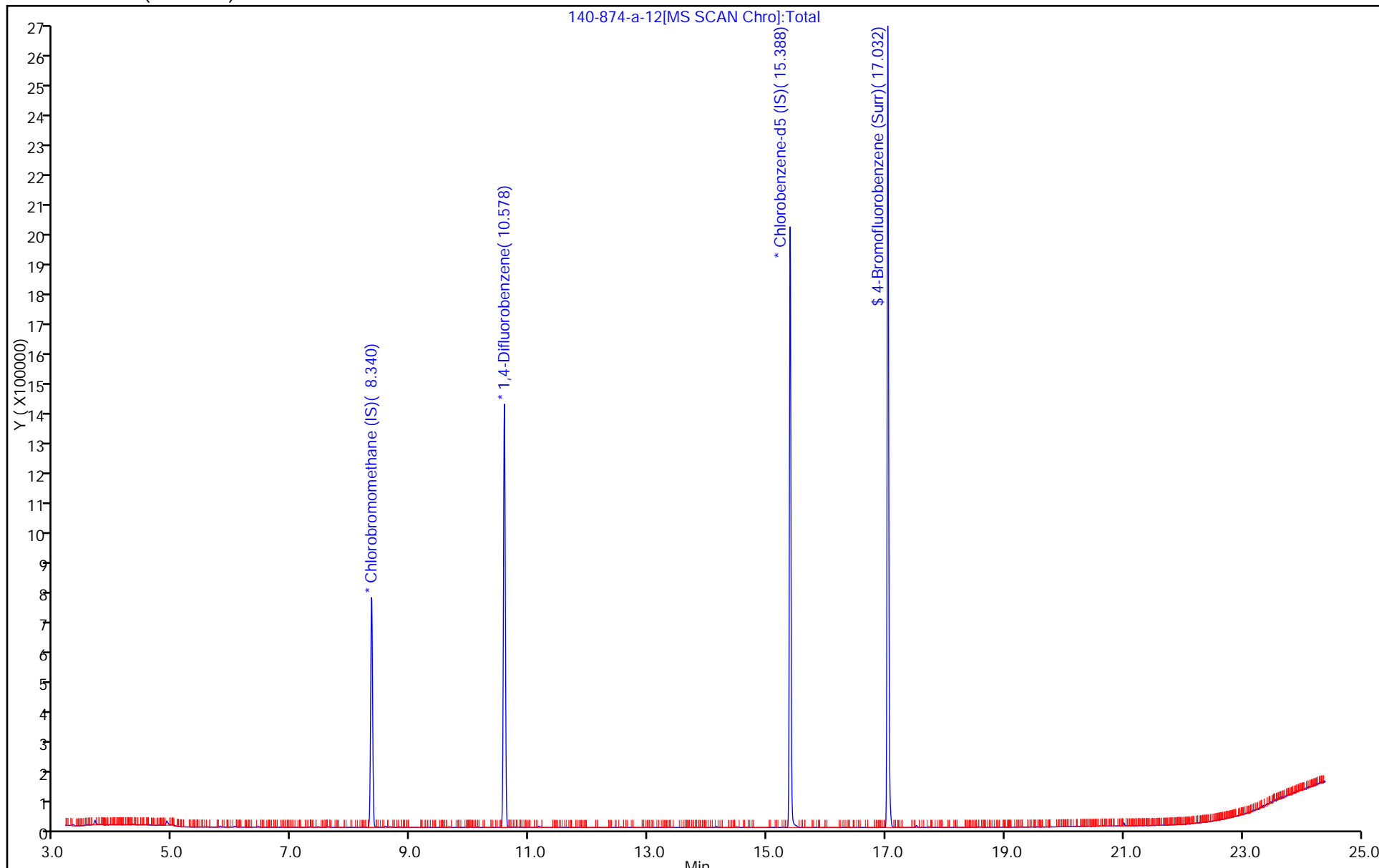
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09602 Lab Sample ID: 140-874-13
 Matrix: Air Lab File ID: 140-874-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 02:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09602 Lab Sample ID: 140-874-13
 Matrix: Air Lab File ID: 140-874-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 02:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09602 Lab Sample ID: 140-874-13
 Matrix: Air Lab File ID: 140-874-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 02:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 09602 Lab Sample ID: 140-874-13
 Matrix: Air Lab File ID: 140-874-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 02:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-13.D
 Lims ID: 140-874-A-13 Lab Sample ID: 140-874-13
 Client ID: 09602
 Sample Type: Client
 Inject. Date: 17-Feb-2014 02:24:30 ALS Bottle#: 16 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09602
 Misc. Info.: E021614,TO155,,140-0000438-019
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:55:23 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:55:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	213583	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	992431	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	908727	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	791406	3.98	
44 Tetrahydrofuran	42	8.798	8.760	0.038	62	1922	0.0351	
48 Benzene	78	9.995	10.000	-0.005	89	14618	0.0732	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	81	7538	0.0641	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-13.D

Injection Date: 17-Feb-2014 02:24:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-13

Lab Sample ID: 140-874-13

Worklist Smp#: 19

Client ID: 09602

Purge Vol: 500.000 mL

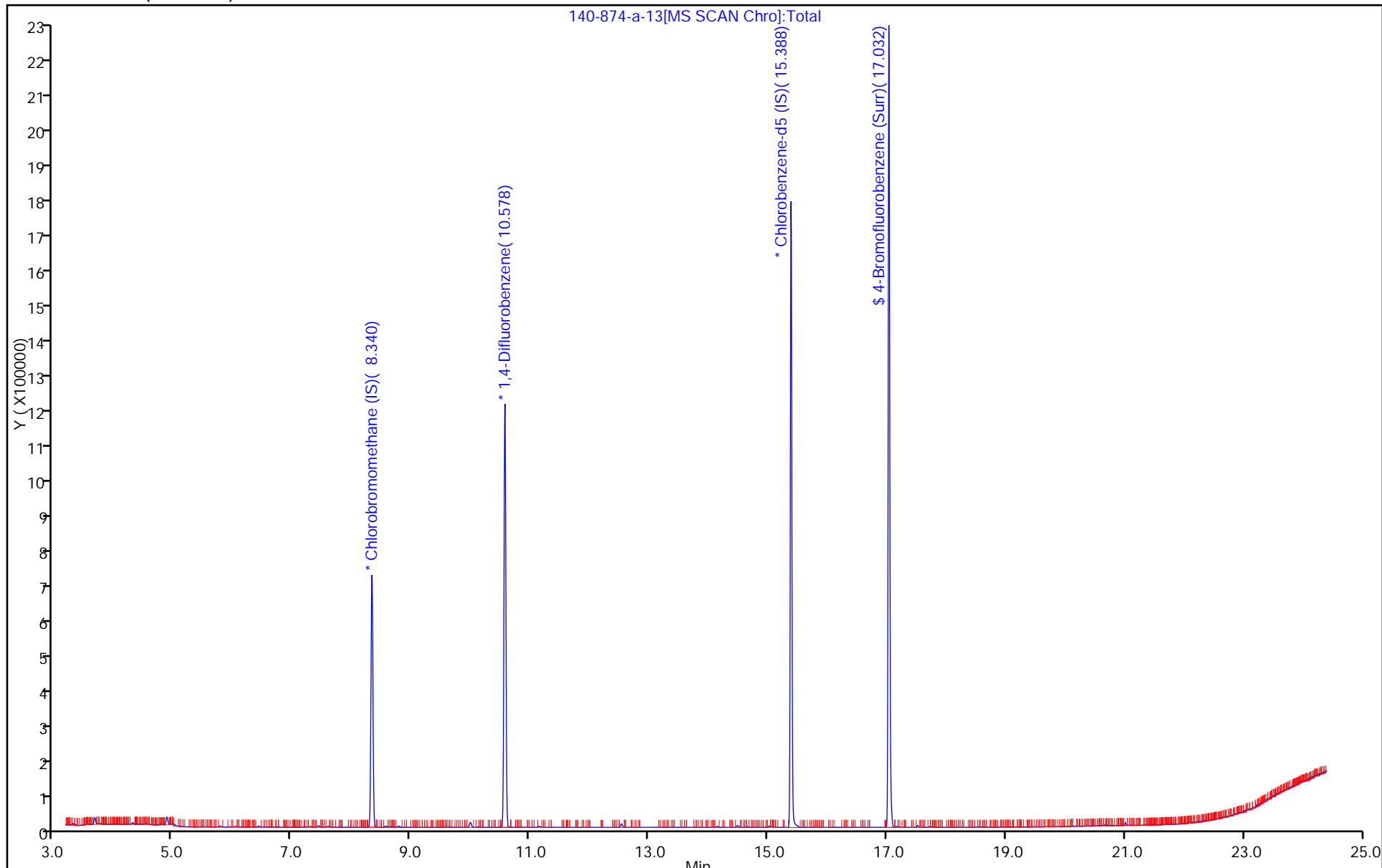
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10992 Lab Sample ID: 140-874-14
 Matrix: Air Lab File ID: 140-874-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 03:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10992 Lab Sample ID: 140-874-14
 Matrix: Air Lab File ID: 140-874-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 03:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10992 Lab Sample ID: 140-874-14
 Matrix: Air Lab File ID: 140-874-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 03:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10992 Lab Sample ID: 140-874-14
 Matrix: Air Lab File ID: 140-874-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 03:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-14.D
 Lims ID: 140-874-A-14 Lab Sample ID: 140-874-14
 Client ID: 10992
 Sample Type: Client
 Inject. Date: 17-Feb-2014 03:09:30 ALS Bottle#: 1 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10992
 Misc. Info.: E021614,TO155,,140-0000438-020
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:55:56 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:55:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	241105	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1209506	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.387	0.001	91	1060998	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	933286	4.02	
24 Isopropyl alcohol	45	4.980	4.969	0.011	80	6331	0.0673	
33 Carbon disulfide	76	5.946	5.951	-0.005	82	5853	0.0235	
44 Tetrahydrofuran	42	8.787	8.760	0.027	82	3017	0.0488	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	85	13722	0.0957	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-14.D

Injection Date: 17-Feb-2014 03:09:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-14

Lab Sample ID: 140-874-14

Worklist Smp#: 20

Client ID: 10992

Purge Vol: 500.000 mL

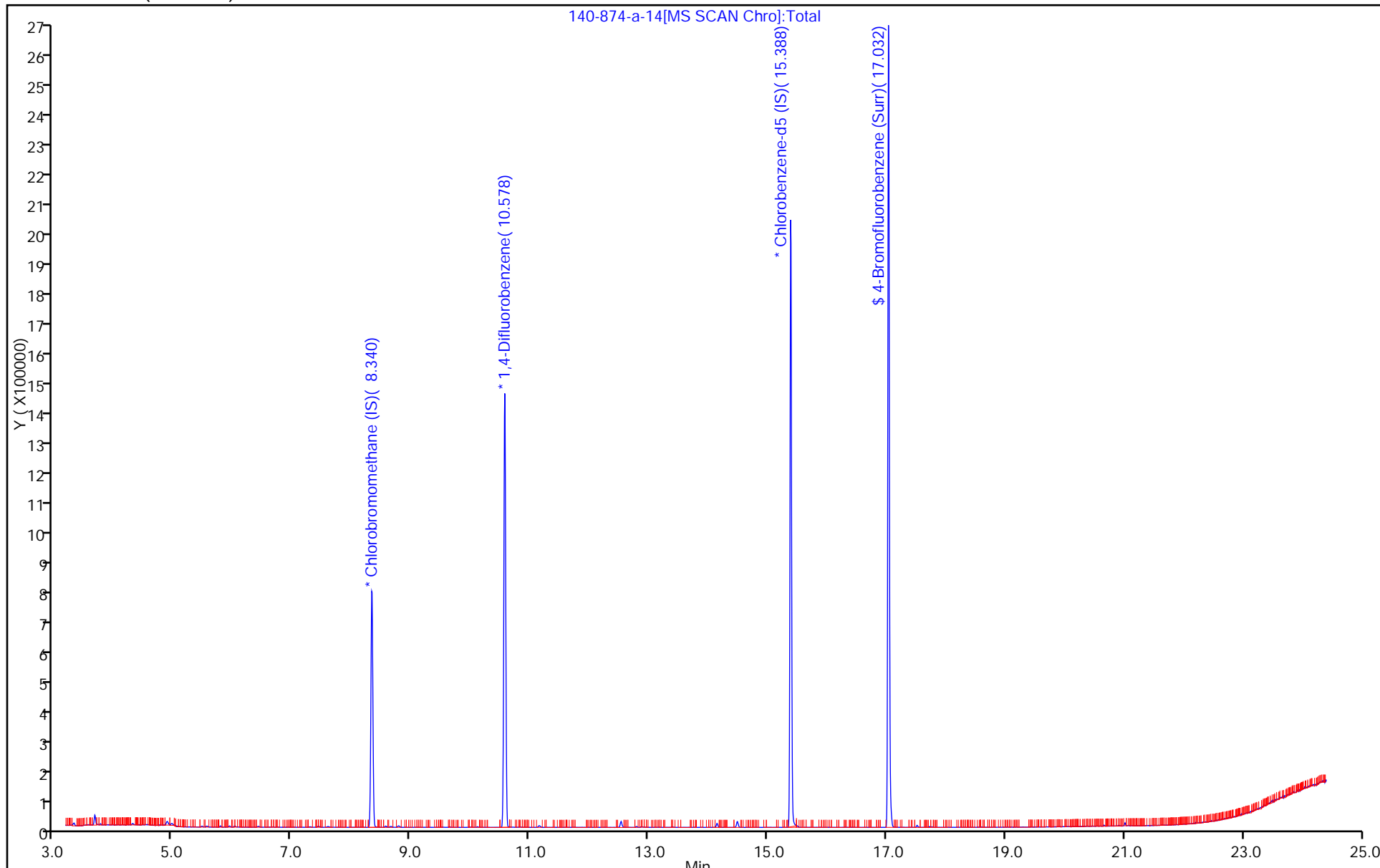
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10119 Lab Sample ID: 140-874-16
 Matrix: Air Lab File ID: 140-874-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 04:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10119 Lab Sample ID: 140-874-16
 Matrix: Air Lab File ID: 140-874-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 04:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10119 Lab Sample ID: 140-874-16
 Matrix: Air Lab File ID: 140-874-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 04:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-874-1
 SDG No.: _____
 Client Sample ID: 10119 Lab Sample ID: 140-874-16
 Matrix: Air Lab File ID: 140-874-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/13/2014 16:20
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 04:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-16.D
 Lims ID: 140-874-A-16 Lab Sample ID: 140-874-16
 Client ID: 10119
 Sample Type: Client
 Inject. Date: 17-Feb-2014 04:40:30 ALS Bottle#: 3 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10119
 Misc. Info.: E021614,TO155,,140-0000438-022
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:58:25 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:58:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	237409	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1184314	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.387	0.0	92	1021115	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	876763	3.92	
44 Tetrahydrofuran	42	8.798	8.760	0.038	64	2091	0.0343	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	72	2906	0.0207	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-874-a-16.D

Injection Date: 17-Feb-2014 04:40:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-874-A-16

Lab Sample ID: 140-874-16

Worklist Smp#: 22

Client ID: 10119

Purge Vol: 500.000 mL

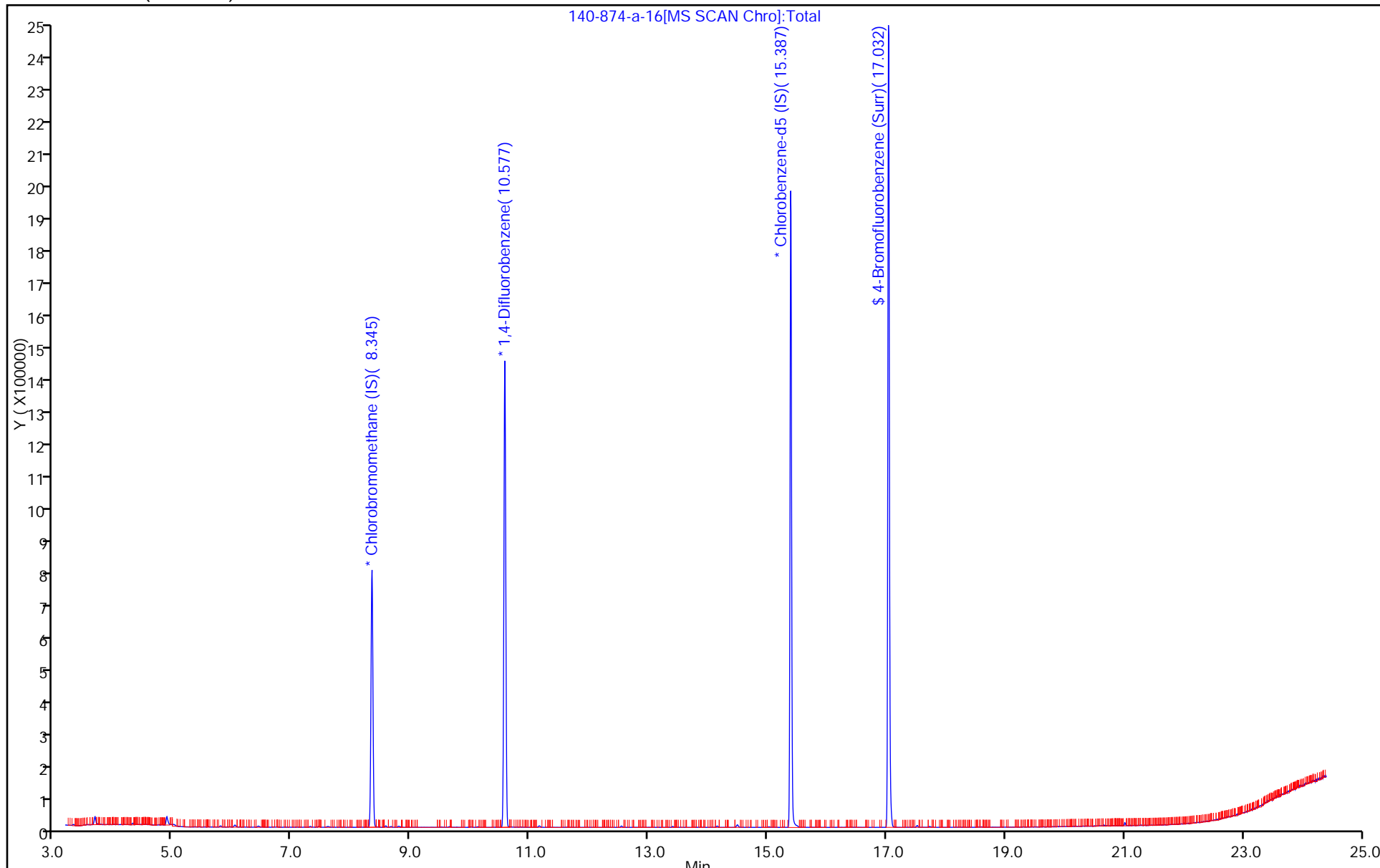
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-875-1
 SDG No.: _____
 Client Sample ID: 10512 Lab Sample ID: 140-875-13
 Matrix: Air Lab File ID: 140-875-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/14/2014 09:45
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 15:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-875-1
 SDG No.: _____
 Client Sample ID: 10512 Lab Sample ID: 140-875-13
 Matrix: Air Lab File ID: 140-875-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/14/2014 09:45
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 15:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-875-1
 SDG No.: _____
 Client Sample ID: 10512 Lab Sample ID: 140-875-13
 Matrix: Air Lab File ID: 140-875-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/14/2014 09:45
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 15:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-875-1
 SDG No.: _____
 Client Sample ID: 10512 Lab Sample ID: 140-875-13
 Matrix: Air Lab File ID: 140-875-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/14/2014 09:45
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 15:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-875-a-13.D
 Lims ID: 140-875-A-13 Lab Sample ID: 140-875-13
 Client ID: 10512
 Sample Type: Client
 Inject. Date: 16-Feb-2014 15:05:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10512
 Misc. Info.: E021614,TO155,,140-0000438-004
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Feb-2014 16:33:17 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: barlozhetskayaa

Date: 16-Feb-2014 16:33:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	81	215902	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	937088	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	90	840037	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.032	0.006	86	709390	3.86	
7 Propene	41	3.319	3.314	0.005	84	1788	0.0329	
14 Butane	43	3.778	3.778	0.0	82	3055	0.0296	
44 Tetrahydrofuran	42	8.793	8.760	0.033	77	5230	0.0944	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	8485	0.0764	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-875-a-13.D

Injection Date: 16-Feb-2014 15:05:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-875-A-13

Lab Sample ID: 140-875-13

Worklist Smp#: 4

Client ID: 10512

Purge Vol: 500.000 mL

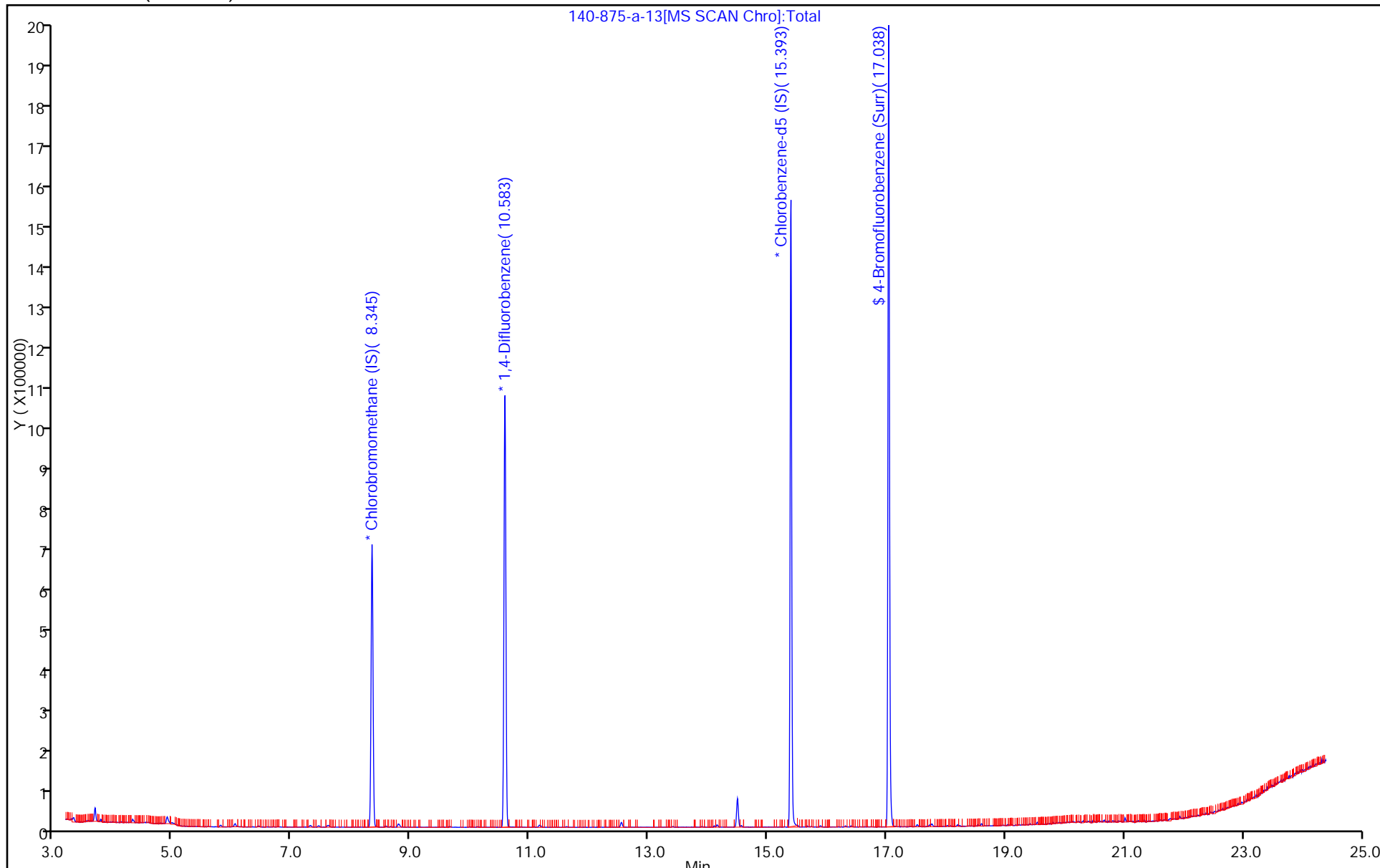
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09990 Lab Sample ID: 140-887-1
 Matrix: Air Lab File ID: 140-887-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09990 Lab Sample ID: 140-887-1
 Matrix: Air Lab File ID: 140-887-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09990 Lab Sample ID: 140-887-1
 Matrix: Air Lab File ID: 140-887-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 17:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09990 Lab Sample ID: 140-887-1
 Matrix: Air Lab File ID: 140-887-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 17:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D
 Lims ID: 140-887-A-1 Lab Sample ID: 140-887-1
 Client ID: 09990
 Sample Type: Client
 Inject. Date: 17-Feb-2014 17:42:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09990
 Misc. Info.: J021714,TO15,,140-0000443-006
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:08:39 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh

Date: 18-Feb-2014 09:08:39

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.007	90	234570	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1112648	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.227	16.229	-0.002	96	917035	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	79	748121	4.09	
7 Propene	41	3.972	3.974	-0.002	92	4831	0.0385	
13 Butane	43	4.516	4.523	-0.007	77	7175	0.0537	
19 2-Methylbutane	43	5.419	5.421	-0.002	58	2212	0.0201	
28 2-Methyl-2-propanol	59	6.517	6.492	0.025	42	3223	0.0229	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	86	20014	0.1059	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-1.D

Injection Date: 17-Feb-2014 17:42:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-1

Lab Sample ID: 140-887-1

Worklist Smp#: 6

Client ID: 09990

Purge Vol: 500.000 mL

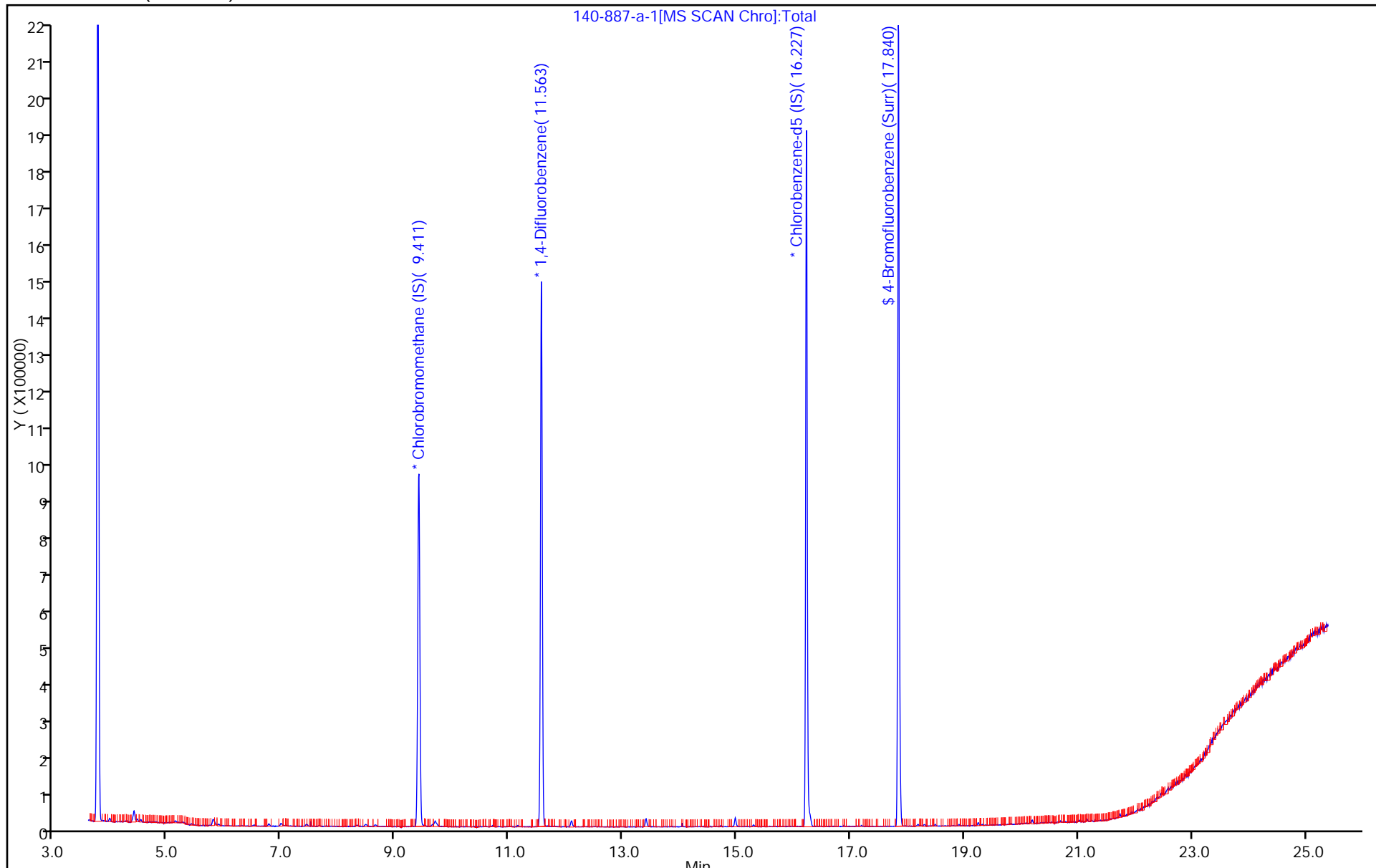
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09609 Lab Sample ID: 140-887-2
 Matrix: Air Lab File ID: 140-887-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09609 Lab Sample ID: 140-887-2
 Matrix: Air Lab File ID: 140-887-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09609 Lab Sample ID: 140-887-2
 Matrix: Air Lab File ID: 140-887-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 18:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09609 Lab Sample ID: 140-887-2
 Matrix: Air Lab File ID: 140-887-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 18:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D
 Lims ID: 140-887-A-2 Lab Sample ID: 140-887-2
 Client ID: 09609
 Sample Type: Client
 Inject. Date: 17-Feb-2014 18:37:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09609
 Misc. Info.: J021714,TO15,,140-0000443-007
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:09:07 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:09:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228881	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1124225	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	920012	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	724033	3.94	
28 2-Methyl-2-propanol	59	6.515	6.492	0.023	31	3061	0.0223	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	68	7138	0.0374	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-2.D

Injection Date: 17-Feb-2014 18:37:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-2

Lab Sample ID: 140-887-2

Worklist Smp#: 7

Client ID: 09609

Purge Vol: 500.000 mL

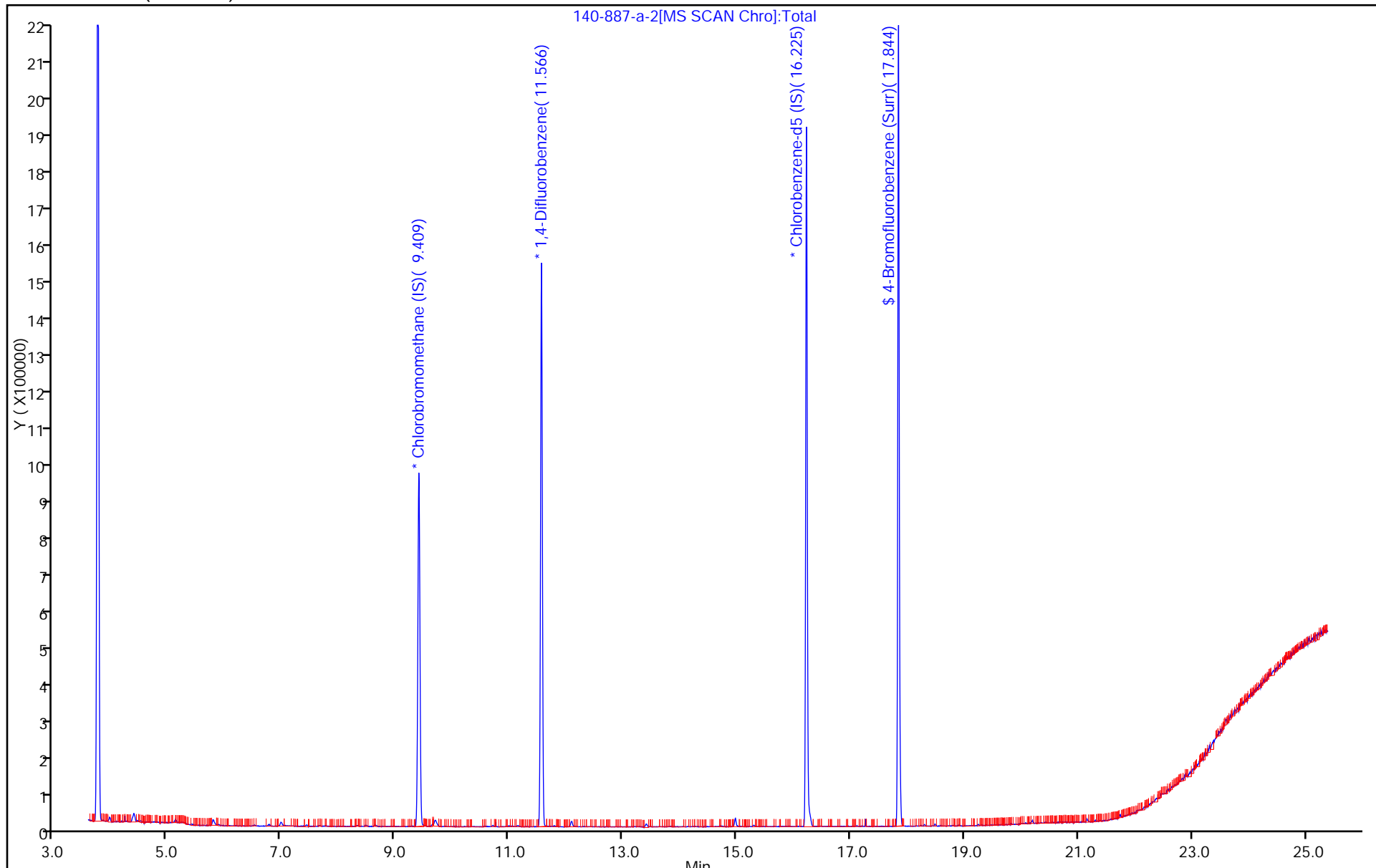
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-887-5
 Matrix: Air Lab File ID: 140-887-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-887-5
 Matrix: Air Lab File ID: 140-887-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-887-5
 Matrix: Air Lab File ID: 140-887-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 21:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10426 Lab Sample ID: 140-887-5
 Matrix: Air Lab File ID: 140-887-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 21:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D
 Lims ID: 140-887-A-5 Lab Sample ID: 140-887-5
 Client ID: 10426
 Sample Type: Client
 Inject. Date: 17-Feb-2014 21:20:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10426
 Misc. Info.: J021714,TO15,,140-0000443-010
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:10:54 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh

Date: 18-Feb-2014 09:10:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.418	-0.009	89	228039	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1142730	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	979591	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	85	796262	4.07	
7 Propene	41	3.976	3.974	0.002	87	4305	0.0353	
28 2-Methyl-2-propanol	59	6.515	6.492	0.023	46	2506	0.0183	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	69	5993	0.0309	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-5.D

Injection Date: 17-Feb-2014 21:20:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-5

Lab Sample ID: 140-887-5

Worklist Smp#: 10

Client ID: 10426

Purge Vol: 500.000 mL

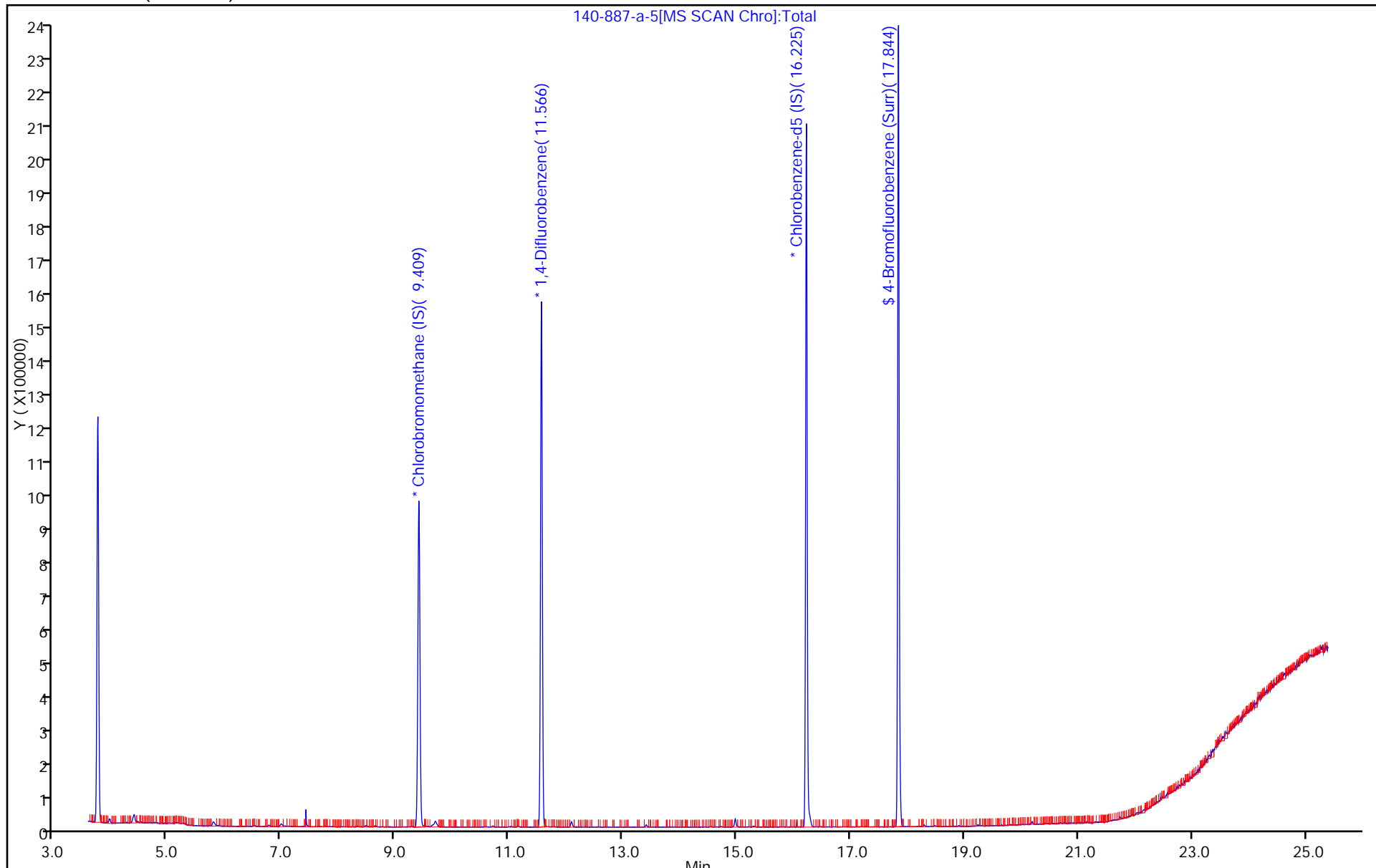
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10578 Lab Sample ID: 140-887-6
 Matrix: Air Lab File ID: 140-887-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10578 Lab Sample ID: 140-887-6
 Matrix: Air Lab File ID: 140-887-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10578 Lab Sample ID: 140-887-6
 Matrix: Air Lab File ID: 140-887-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 22:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10578 Lab Sample ID: 140-887-6
 Matrix: Air Lab File ID: 140-887-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 22:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D
 Lims ID: 140-887-A-6 Lab Sample ID: 140-887-6
 Client ID: 10578
 Sample Type: Client
 Inject. Date: 17-Feb-2014 22:14:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10578
 Misc. Info.: J021714,TO15,,140-0000443-011
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:11:22 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh

Date: 18-Feb-2014 09:11:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234526	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1084974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	97	888329	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	79	719762	4.06	
7 Propene	41	3.976	3.974	0.002	69	4102	0.0327	
28 2-Methyl-2-propanol	59	6.531	6.492	0.039	6	2301	0.0163	
44 Tetrahydrofuran	42	9.861	9.833	0.028	80	5635	0.0688	
62 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	87	30074	0.1632	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-6.D

Injection Date: 17-Feb-2014 22:14:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-6

Lab Sample ID: 140-887-6

Worklist Smp#: 11

Client ID: 10578

Purge Vol: 500.000 mL

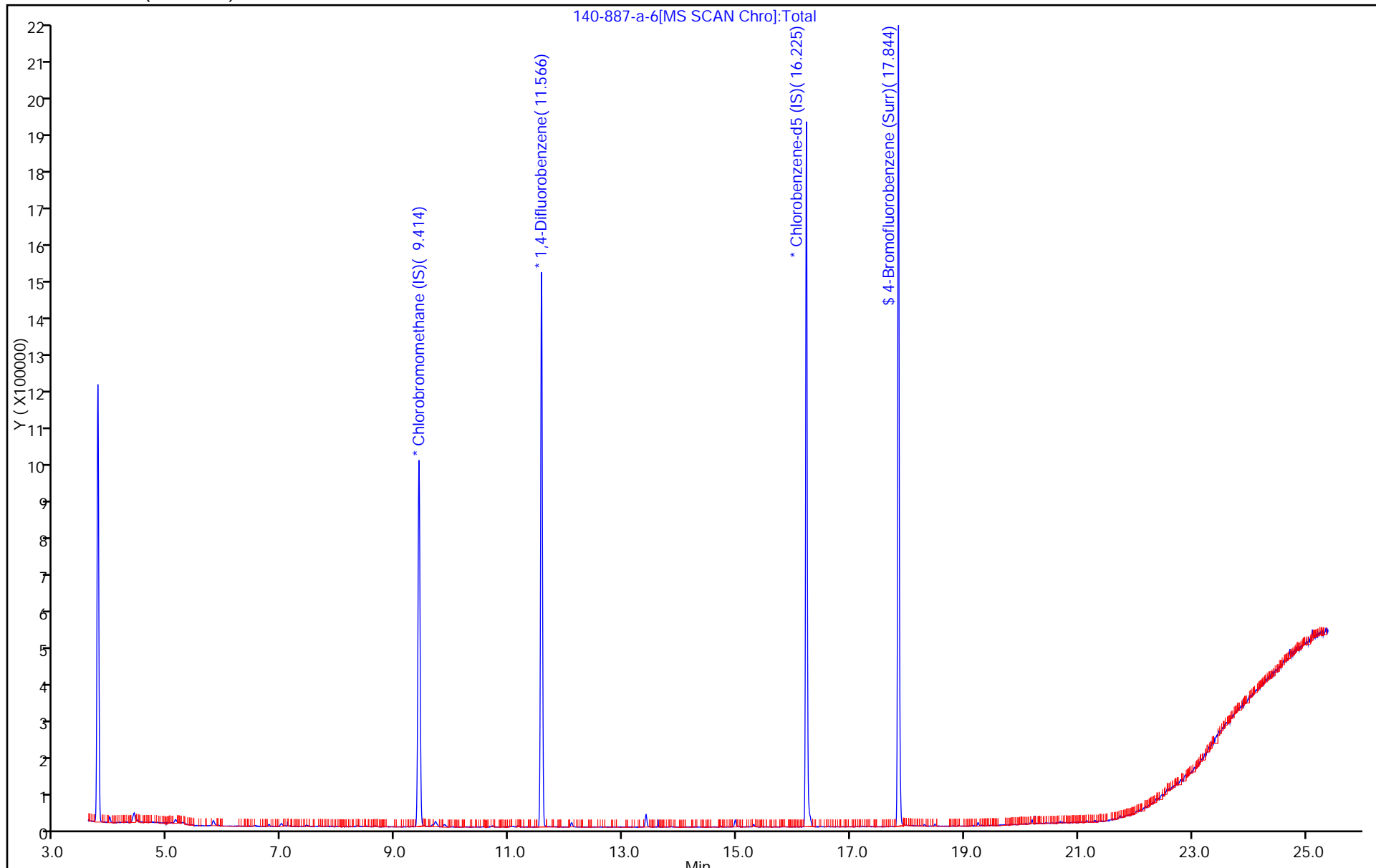
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10718 Lab Sample ID: 140-887-8
 Matrix: Air Lab File ID: 140-887-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10718 Lab Sample ID: 140-887-8
 Matrix: Air Lab File ID: 140-887-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10718 Lab Sample ID: 140-887-8
 Matrix: Air Lab File ID: 140-887-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 23:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10718 Lab Sample ID: 140-887-8
 Matrix: Air Lab File ID: 140-887-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 23:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D
 Lims ID: 140-887-A-8 Lab Sample ID: 140-887-8
 Client ID: 10718
 Sample Type: Client
 Inject. Date: 17-Feb-2014 23:08:30 ALS Bottle#: 9 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10718
 Misc. Info.: J021714,TO15,,140-0000443-012
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:11:53 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh

Date: 18-Feb-2014 09:11:53

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	234757	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1129568	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	931520	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	731564	3.94	
7 Propene	41	3.981	3.974	0.007	90	4432	0.0353	
13 Butane	43	4.524	4.523	0.001	77	10078	0.0754	
19 2-Methylbutane	43	5.417	5.421	-0.004	63	2815	0.0255	
28 2-Methyl-2-propanol	59	6.514	6.492	0.022	50	3058	0.0217	
33 Carbon disulfide	76	6.956	6.960	-0.004	91	16157	0.0635	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	78	12128	0.0632	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-8.D

Injection Date: 17-Feb-2014 23:08:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-8

Lab Sample ID: 140-887-8

Worklist Smp#: 12

Client ID: 10718

Purge Vol: 500.000 mL

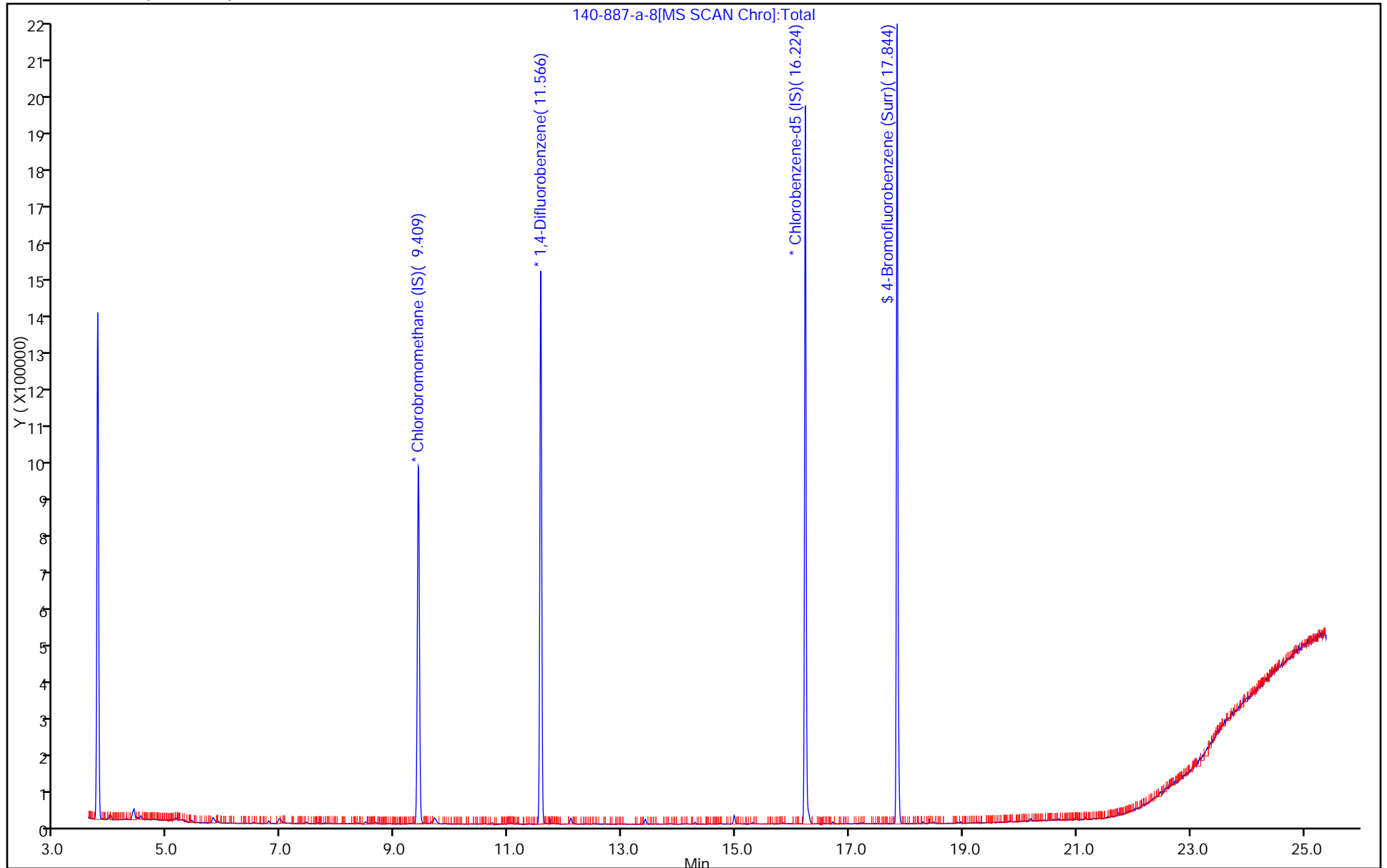
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10367 Lab Sample ID: 140-887-9
 Matrix: Air Lab File ID: 140-887-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10367 Lab Sample ID: 140-887-9
 Matrix: Air Lab File ID: 140-887-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10367 Lab Sample ID: 140-887-9
 Matrix: Air Lab File ID: 140-887-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 00:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10367 Lab Sample ID: 140-887-9
 Matrix: Air Lab File ID: 140-887-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 00:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D
 Lims ID: 140-887-A-9 Lab Sample ID: 140-887-9
 Client ID: 10367
 Sample Type: Client
 Inject. Date: 18-Feb-2014 00:05:30 ALS Bottle#: 10 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10367
 Misc. Info.: J021714,TO15,,140-0000443-013
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:12:18 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:12:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	232063	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1078719	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	855061	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.838	17.843	-0.005	78	667028	3.91	
28 2-Methyl-2-propanol	59	6.509	6.492	0.017	48	4069	0.0292	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-9.D

Injection Date: 18-Feb-2014 00:05:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-9

Lab Sample ID: 140-887-9

Worklist Smp#: 13

Client ID: 10367

Purge Vol: 500.000 mL

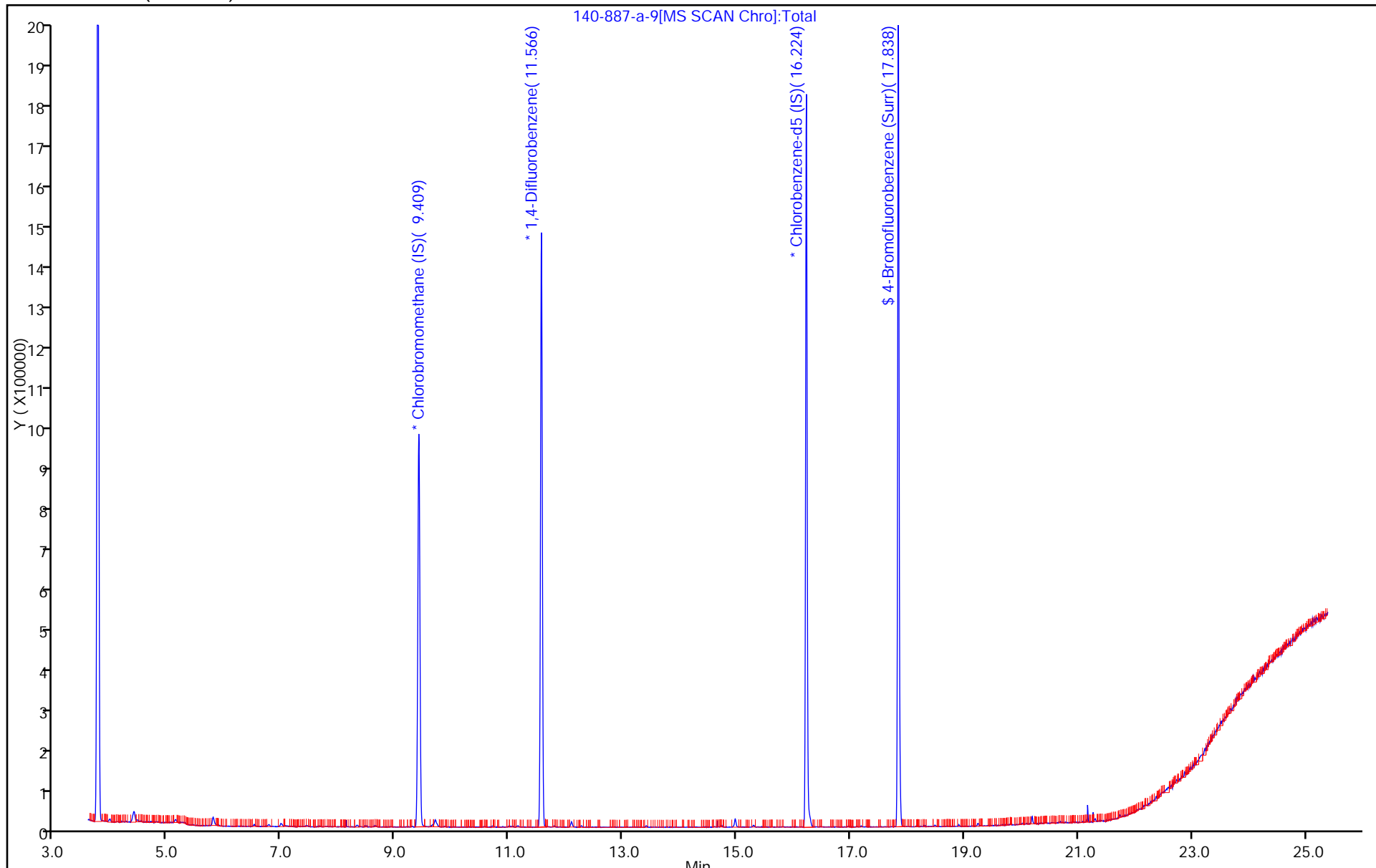
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09513 Lab Sample ID: 140-887-11
 Matrix: Air Lab File ID: 140-887-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 01:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09513 Lab Sample ID: 140-887-11
 Matrix: Air Lab File ID: 140-887-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 01:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09513 Lab Sample ID: 140-887-11
 Matrix: Air Lab File ID: 140-887-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 01:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09513 Lab Sample ID: 140-887-11
 Matrix: Air Lab File ID: 140-887-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 01:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D
 Lims ID: 140-887-A-11 Lab Sample ID: 140-887-11
 Client ID: 09513
 Sample Type: Client
 Inject. Date: 18-Feb-2014 01:54:30 ALS Bottle#: 12 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09513
 Misc. Info.: J021714,TO15,,140-0000443-015
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:13:45 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh

Date: 18-Feb-2014 09:13:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.407	9.418	-0.012	89	232043	4.00	
* 2 1,4-Difluorobenzene	114	11.564	11.570	-0.006	98	1067906	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	870406	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.842	17.843	-0.001	79	716999	4.13	
28 2-Methyl-2-propanol	59	6.518	6.492	0.026	28	2611	0.0187	
44 Tetrahydrofuran	42	9.697	9.833	-0.136	16	6588	0.0812	
62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	70	8614	0.0475	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-11.D

Injection Date: 18-Feb-2014 01:54:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-11

Lab Sample ID: 140-887-11

Worklist Smp#: 15

Client ID: 09513

Purge Vol: 500.000 mL

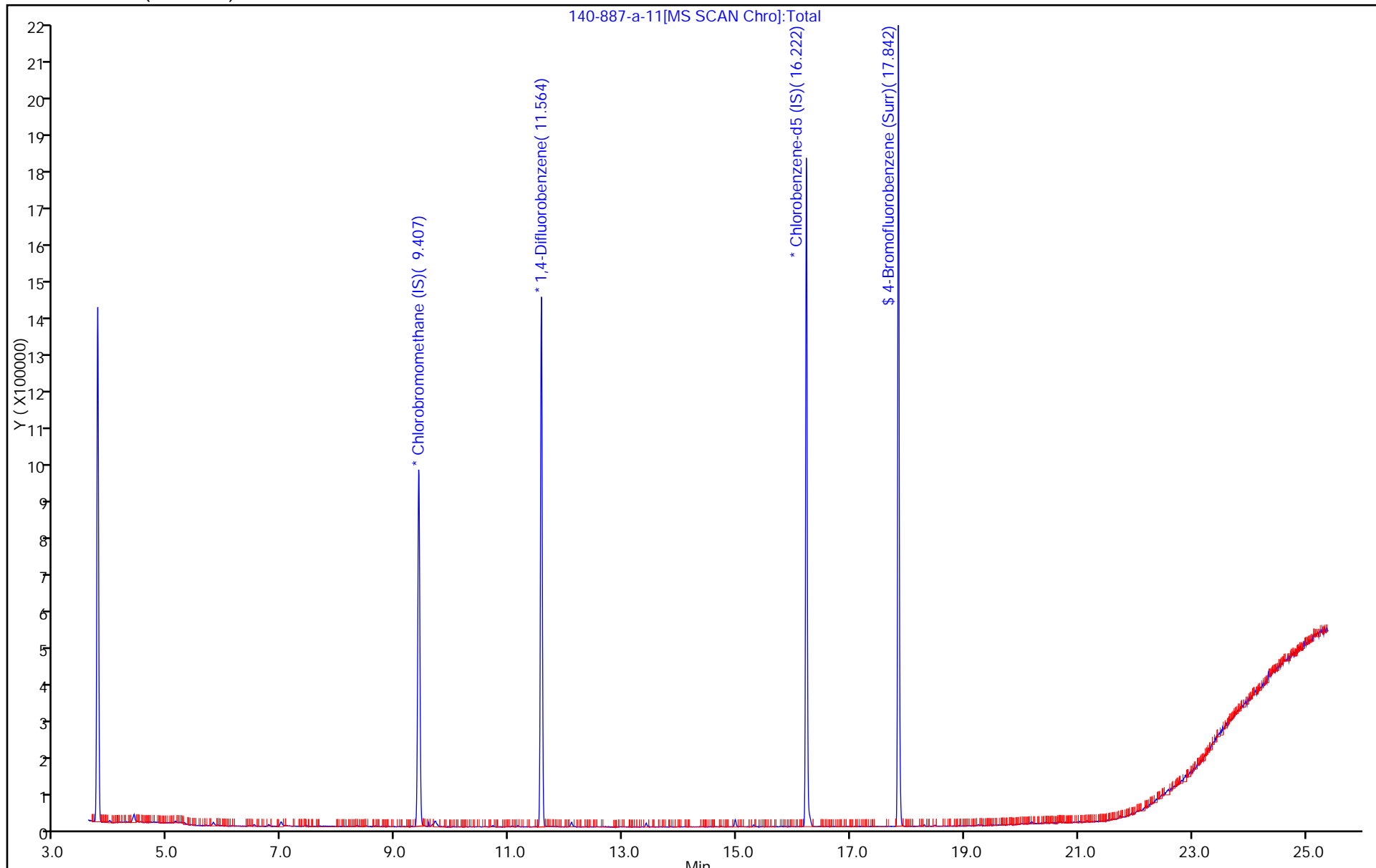
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09820 Lab Sample ID: 140-887-13
 Matrix: Air Lab File ID: 140-887-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09820 Lab Sample ID: 140-887-13
 Matrix: Air Lab File ID: 140-887-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09820 Lab Sample ID: 140-887-13
 Matrix: Air Lab File ID: 140-887-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 03:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09820 Lab Sample ID: 140-887-13
 Matrix: Air Lab File ID: 140-887-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 03:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D
 Lims ID: 140-887-A-13 Lab Sample ID: 140-887-13
 Client ID: 09820
 Sample Type: Client
 Inject. Date: 18-Feb-2014 03:44:30 ALS Bottle#: 14 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09820
 Misc. Info.: J021714,TO15,,140-0000443-017
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:15:00 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh

Date: 18-Feb-2014 09:15:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.418	-0.006	90	230349	4.00	
* 2 1,4-Difluorobenzene	114	11.563	11.570	-0.007	98	1076802	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.229	-0.007	96	865396	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.841	17.843	-0.002	79	684889	3.97	
7 Propene	41	3.973	3.974	-0.001	45	4500	0.0365	
28 2-Methyl-2-propanol	59	6.512	6.492	0.020	47	3840	0.0277	
62 4-Methyl-2-pentanone (MIBK)	43	13.403	13.399	0.004	84	16476	0.0901	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-13.D

Injection Date: 18-Feb-2014 03:44:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-13

Lab Sample ID: 140-887-13

Worklist Smp#: 17

Client ID: 09820

Purge Vol: 500.000 mL

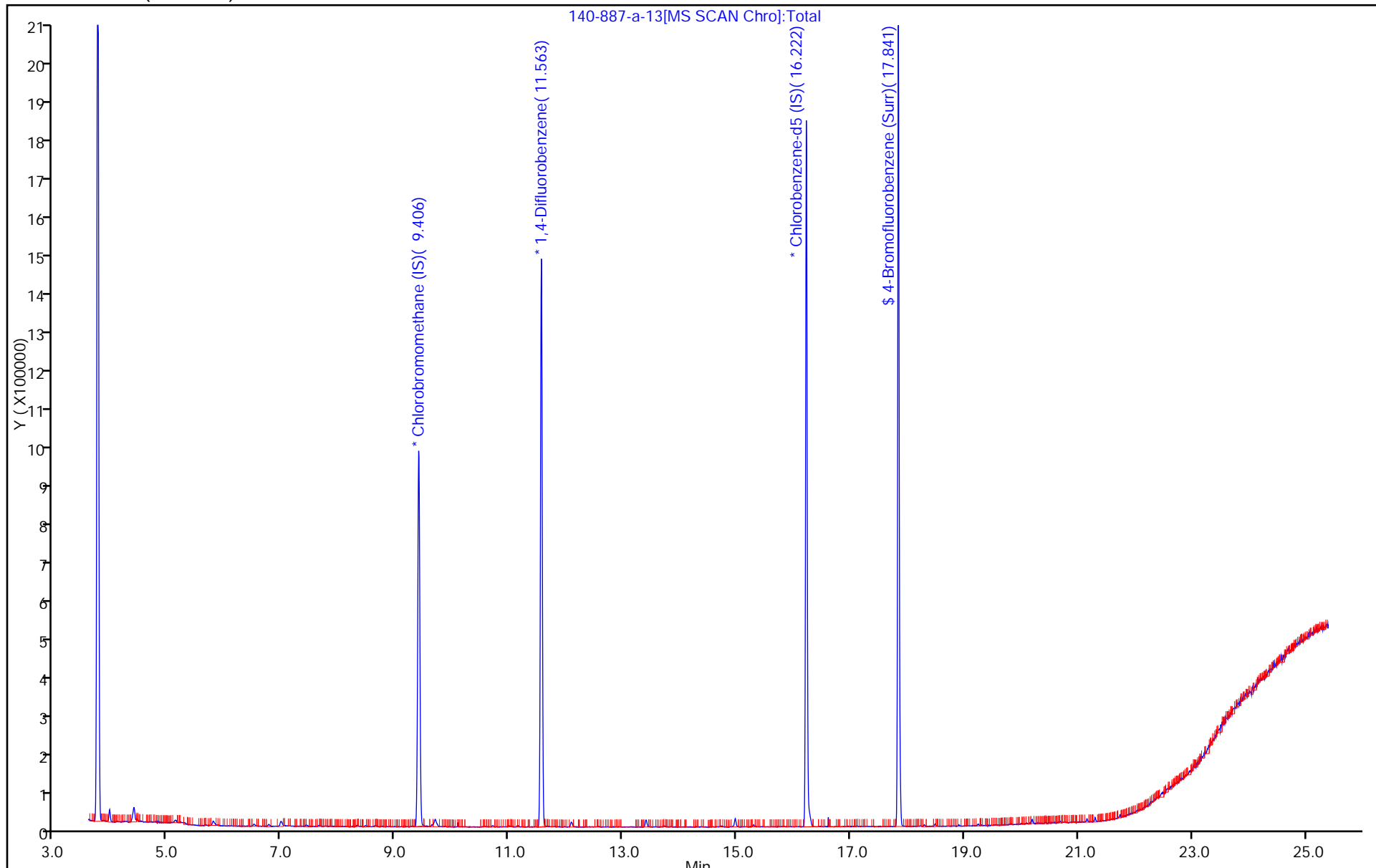
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10248 Lab Sample ID: 140-887-14
 Matrix: Air Lab File ID: 140-887-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 04:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10248 Lab Sample ID: 140-887-14
 Matrix: Air Lab File ID: 140-887-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 04:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10248 Lab Sample ID: 140-887-14
 Matrix: Air Lab File ID: 140-887-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 04:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 10248 Lab Sample ID: 140-887-14
 Matrix: Air Lab File ID: 140-887-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 04:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D
 Lims ID: 140-887-A-14 Lab Sample ID: 140-887-14
 Client ID: 10248
 Sample Type: Client
 Inject. Date: 18-Feb-2014 04:38:30 ALS Bottle#: 15 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10248
 Misc. Info.: J021714,TO15,,140-0000443-018
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:15:28 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh Date: 18-Feb-2014 09:15:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.414	9.418	-0.004	90	235467	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.570	-0.004	98	1138994	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.229	-0.005	96	961934	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.843	0.001	80	787823	4.10	
28 2-Methyl-2-propanol	59	6.520	6.492	0.028	47	3082	0.0218	
62 4-Methyl-2-pentanone (MIBK)	43	13.411	13.399	0.012	70	8327	0.0431	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-14.D

Injection Date: 18-Feb-2014 04:38:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-14

Lab Sample ID: 140-887-14

Worklist Smp#: 18

Client ID: 10248

Purge Vol: 500.000 mL

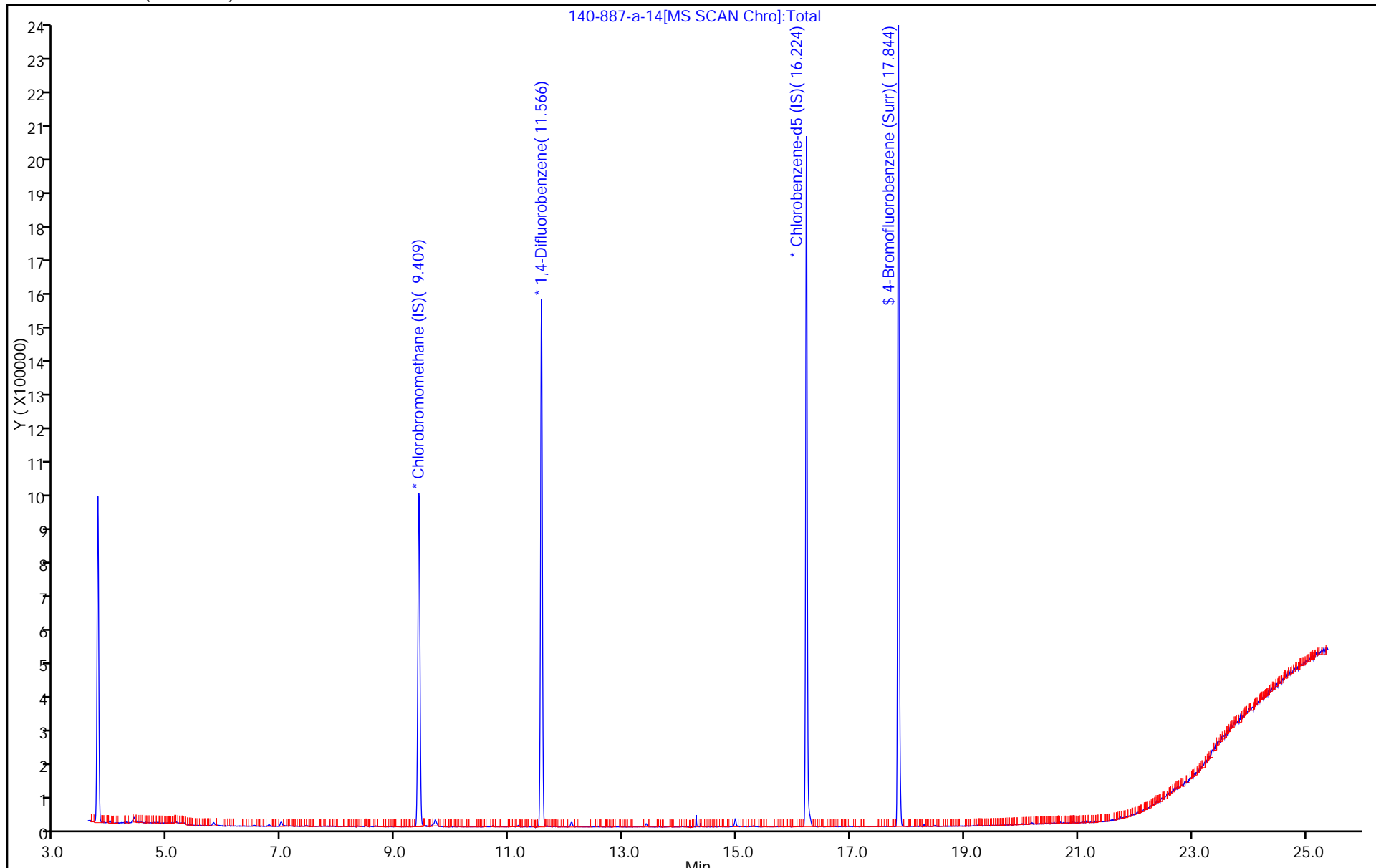
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09526 Lab Sample ID: 140-887-16
 Matrix: Air Lab File ID: 140-887-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 06:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND	*	2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09526 Lab Sample ID: 140-887-16
 Matrix: Air Lab File ID: 140-887-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 06:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND	*	0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09526 Lab Sample ID: 140-887-16
 Matrix: Air Lab File ID: 140-887-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 06:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND	*	0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND	*	0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND	*	4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-887-1
 SDG No.: _____
 Client Sample ID: 09526 Lab Sample ID: 140-887-16
 Matrix: Air Lab File ID: 140-887-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 11:50
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 06:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D
 Lims ID: 140-887-A-16 Lab Sample ID: 140-887-16
 Client ID: 09526
 Sample Type: Client
 Inject. Date: 18-Feb-2014 06:28:30 ALS Bottle#: 17 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09526
 Misc. Info.: J021714,TO15,,140-0000443-020
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Feb-2014 09:16:30 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: tajh

Date: 18-Feb-2014 09:16:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.410	9.418	-0.008	90	244816	4.00	
* 2 1,4-Difluorobenzene	114	11.567	11.570	-0.003	98	1187906	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.229	-0.004	96	978359	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.843	-0.004	79	774920	3.97	
7 Propene	41	3.976	3.974	0.002	89	4495	0.0343	
28 2-Methyl-2-propanol	59	6.505	6.492	0.013	65	6413	0.0436	
47 n-Butanol	31	10.986	10.968	0.018	72	2420	0.0562	
62 4-Methyl-2-pentanone (MIBK)	43	13.401	13.399	0.002	90	28428	0.1409	
93 1,2,4-Trimethylbenzene	105	18.964	18.962	0.002	32	5670	0.0267	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-887-a-16.D

Injection Date: 18-Feb-2014 06:28:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-887-A-16

Lab Sample ID: 140-887-16

Worklist Smp#: 20

Client ID: 09526

Purge Vol: 500.000 mL

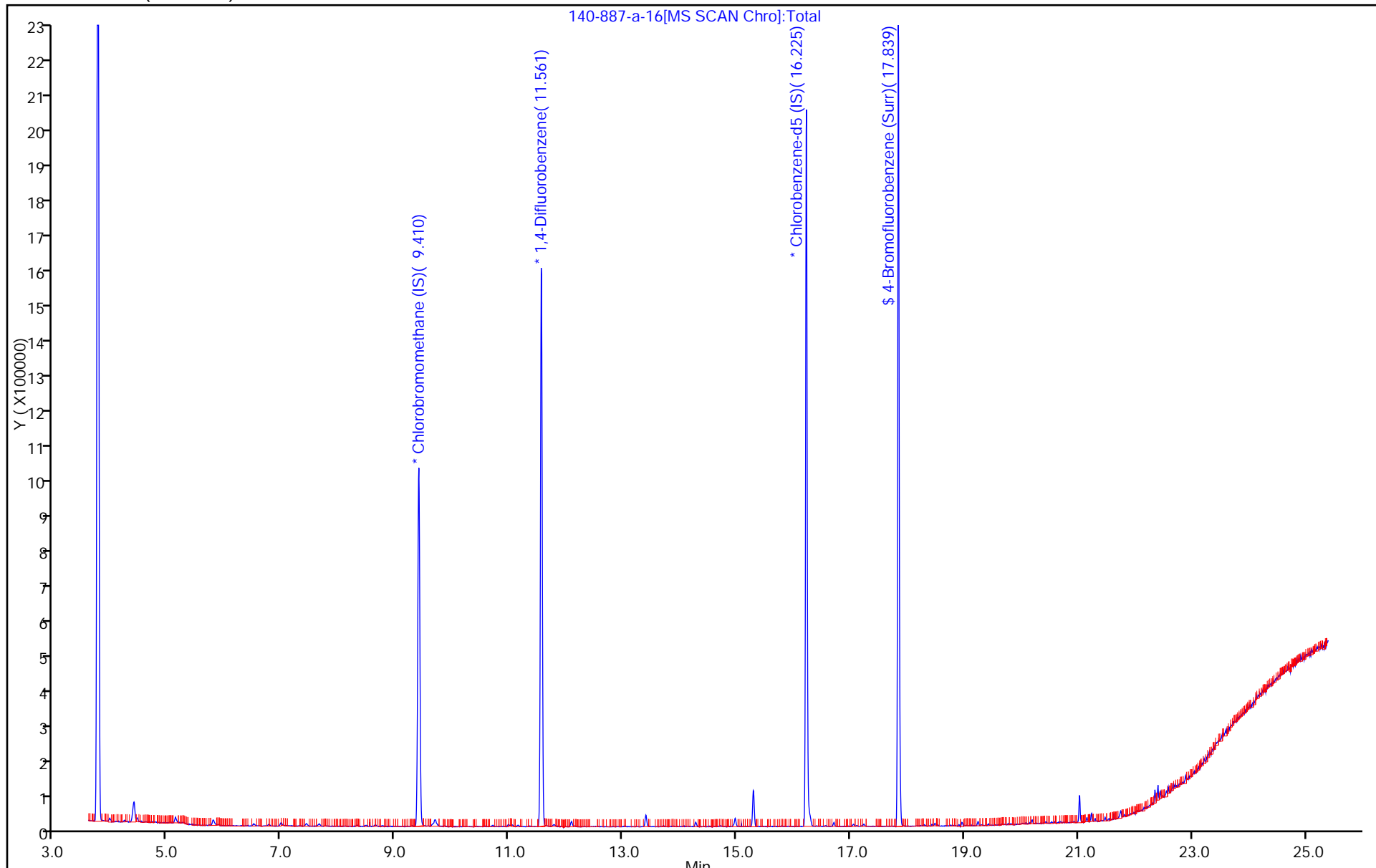
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1
 SDG No.: _____
 Client Sample ID: 09672 Lab Sample ID: 140-888-5
 Matrix: Air Lab File ID: 140-888-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 17:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1
 SDG No.: _____
 Client Sample ID: 09672 Lab Sample ID: 140-888-5
 Matrix: Air Lab File ID: 140-888-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 17:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1
 SDG No.: _____
 Client Sample ID: 09672 Lab Sample ID: 140-888-5
 Matrix: Air Lab File ID: 140-888-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 17:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1
 SDG No.: _____
 Client Sample ID: 09672 Lab Sample ID: 140-888-5
 Matrix: Air Lab File ID: 140-888-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 17:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-888-a-5.D
 Lims ID: 140-888-A-5 Lab Sample ID: 140-888-5
 Client ID: 09672
 Sample Type: Client
 Inject. Date: 16-Feb-2014 17:22:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09672
 Misc. Info.: E021614,TO155,,140-0000438-007
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:35:45 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 17-Feb-2014 07:35:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	83	250068	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1251873	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	90	1085736	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	923696	3.89	
44 Tetrahydrofuran	42	8.782	8.760	0.022	69	4094	0.0638	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-888-a-5.D

Injection Date: 16-Feb-2014 17:22:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-888-A-5

Lab Sample ID: 140-888-5

Worklist Smp#: 7

Client ID: 09672

Purge Vol: 500.000 mL

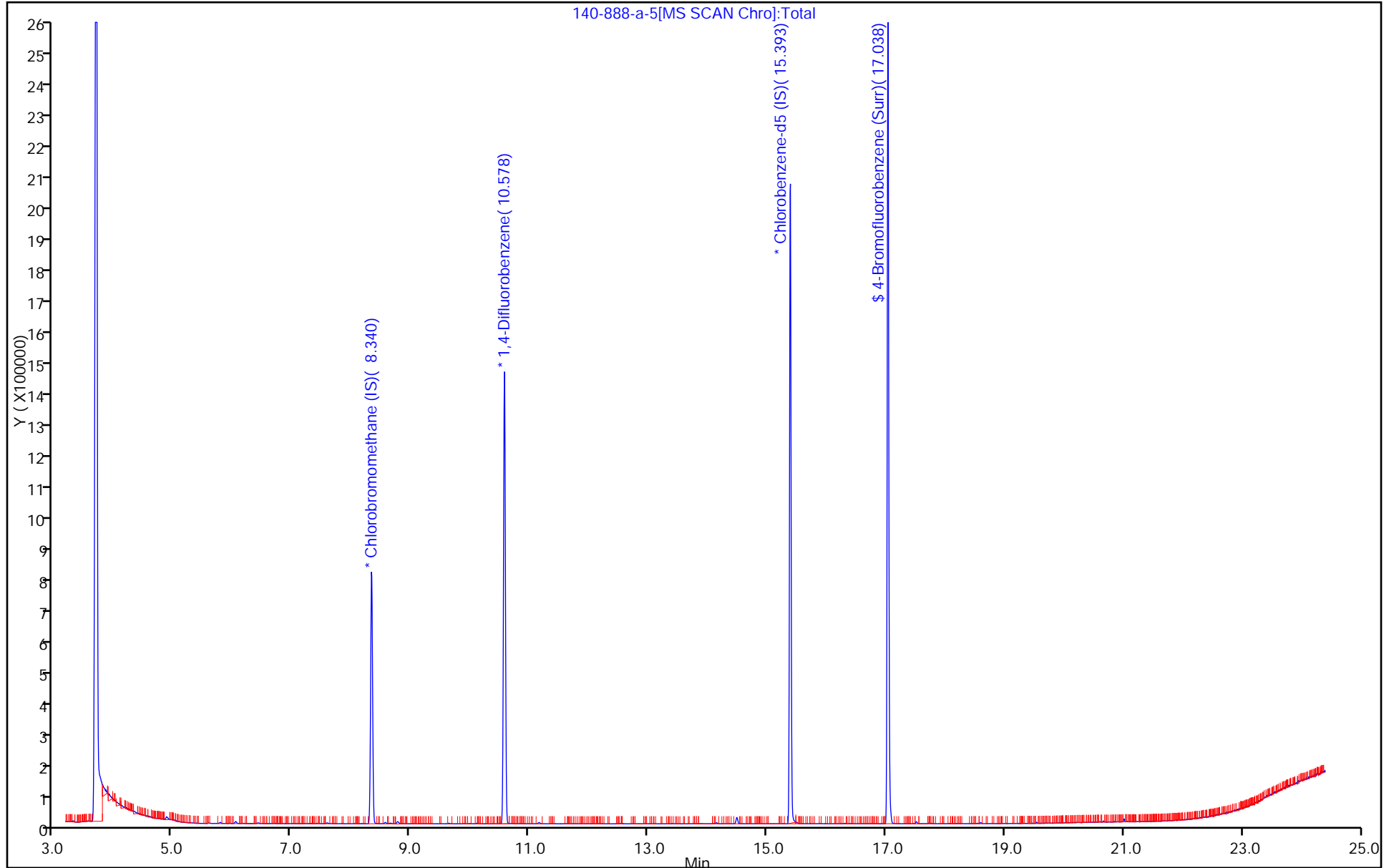
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1
 SDG No.: _____
 Client Sample ID: 10010 Lab Sample ID: 140-889-13
 Matrix: Air Lab File ID: 140-889-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1
 SDG No.: _____
 Client Sample ID: 10010 Lab Sample ID: 140-889-13
 Matrix: Air Lab File ID: 140-889-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1
 SDG No.: _____
 Client Sample ID: 10010 Lab Sample ID: 140-889-13
 Matrix: Air Lab File ID: 140-889-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1
 SDG No.: _____
 Client Sample ID: 10010 Lab Sample ID: 140-889-13
 Matrix: Air Lab File ID: 140-889-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-889-a-13.D
 Lims ID: 140-889-A-13 Lab Sample ID: 140-889-13
 Client ID: 10010
 Sample Type: Client
 Inject. Date: 17-Feb-2014 15:49:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10010
 Misc. Info.: J021714,TO15,,140-0000443-004
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Feb-2014 14:56:29 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: wilesd

Date: 20-Feb-2014 14:46:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.007	90	234959	4.00	
* 2 1,4-Difluorobenzene	114	11.568	11.570	-0.002	98	1131499	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.226	16.229	-0.003	96	955572	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	80	769817	4.04	
13 Butane	43	4.526	4.523	0.003	60	9068	0.0678	
19 2-Methylbutane	43	5.419	5.421	-0.002	65	3030	0.0274	
28 2-Methyl-2-propanol	59	6.522	6.492	0.030	48	3776	0.0267	
31 Methylene Chloride	84	6.780	6.777	0.003	74	4068	0.0571	
44 Tetrahydrofuran	42	9.706	9.833	-0.127	18	7552	0.0920	
47 n-Butanol	31	10.987	10.968	0.019	8	2135	0.0520	
62 4-Methyl-2-pentanone (MIBK)	43	13.413	13.399	0.014	59	5415	0.0282	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-889-a-13.D

Injection Date: 17-Feb-2014 15:49:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-889-A-13

Lab Sample ID: 140-889-13

Worklist Smp#: 4

Client ID: 10010

Purge Vol: 500.000 mL

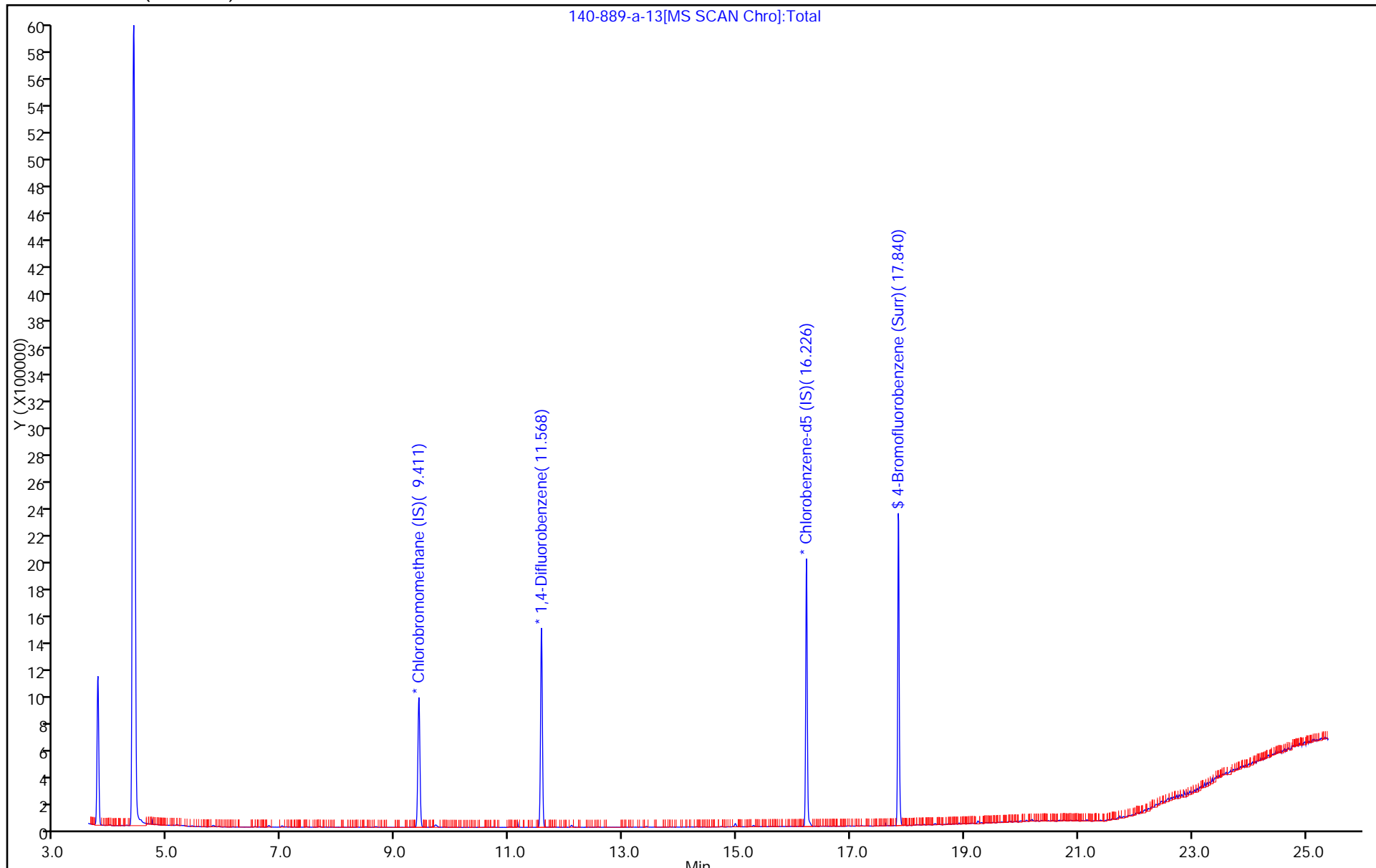
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09994 Lab Sample ID: 140-890-1
 Matrix: Air Lab File ID: 140-890-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09994 Lab Sample ID: 140-890-1
 Matrix: Air Lab File ID: 140-890-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09994 Lab Sample ID: 140-890-1
 Matrix: Air Lab File ID: 140-890-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/18/2014 22:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09994 Lab Sample ID: 140-890-1
 Matrix: Air Lab File ID: 140-890-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/18/2014 22:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D
 Lims ID: 140-890-A-1 Lab Sample ID: 140-890-1
 Client ID: 09994
 Sample Type: Client
 Inject. Date: 18-Feb-2014 22:23:30 ALS Bottle#: 8 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09994
 Misc. Info.: E021814,TO155,,140-0000446-014
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 09:17:15 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 19-Feb-2014 09:17:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.350	8.350	0.0	82	249824	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1244065	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1091614	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	934270	3.91	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	5258	0.0357	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-1.D

Injection Date: 18-Feb-2014 22:23:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-890-A-1

Lab Sample ID: 140-890-1

Worklist Smp#: 14

Client ID: 09994

Purge Vol: 500.000 mL

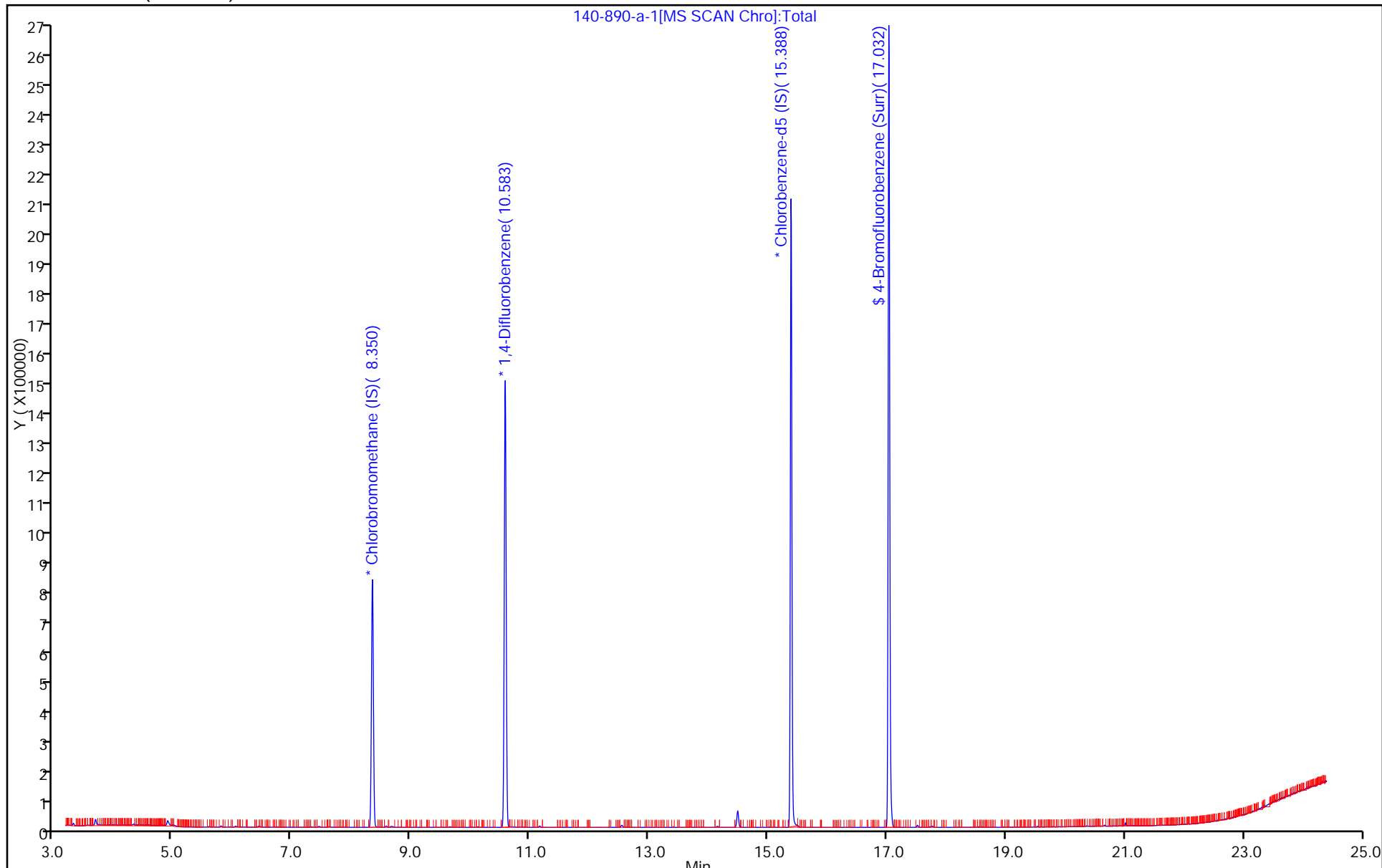
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10829 Lab Sample ID: 140-890-5
 Matrix: Air Lab File ID: 140-890-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10829 Lab Sample ID: 140-890-5
 Matrix: Air Lab File ID: 140-890-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10829 Lab Sample ID: 140-890-5
 Matrix: Air Lab File ID: 140-890-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10829 Lab Sample ID: 140-890-5
 Matrix: Air Lab File ID: 140-890-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/19/2014 01:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D
 Lims ID: 140-890-A-5 Lab Sample ID: 140-890-5
 Client ID: 10829
 Sample Type: Client
 Inject. Date: 19-Feb-2014 01:25:30 ALS Bottle#: 12 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10829
 Misc. Info.: E021814,TO155,,140-0000446-018
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 09:19:47 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 19-Feb-2014 09:19:47

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	233449	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1163887	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	92	1024194	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	887509	3.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	69	3548	0.0257	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-5.D

Injection Date: 19-Feb-2014 01:25:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-890-A-5

Lab Sample ID: 140-890-5

Worklist Smp#: 18

Client ID: 10829

Purge Vol: 500.000 mL

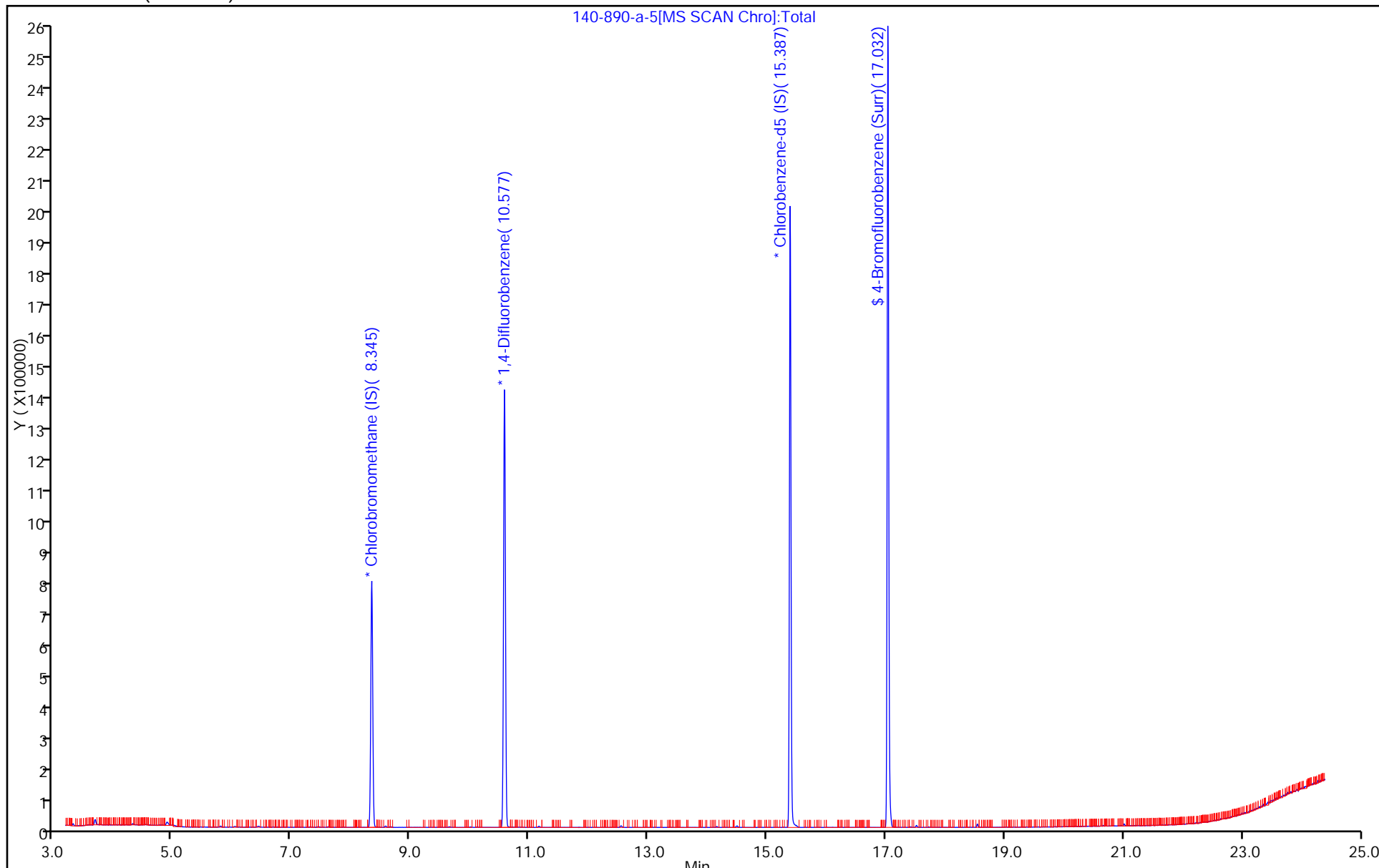
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09516 Lab Sample ID: 140-890-6
 Matrix: Air Lab File ID: 140-890-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09516 Lab Sample ID: 140-890-6
 Matrix: Air Lab File ID: 140-890-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09516 Lab Sample ID: 140-890-6
 Matrix: Air Lab File ID: 140-890-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09516 Lab Sample ID: 140-890-6
 Matrix: Air Lab File ID: 140-890-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 16:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D
 Lims ID: 140-890-A-6 Lab Sample ID: 140-890-6
 Client ID: 09516
 Sample Type: Client
 Inject. Date: 17-Feb-2014 16:45:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09516
 Misc. Info.: J021714,TO15,,140-0000443-005
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 13:48:28 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK031

First Level Reviewer: barlozhetskayaa

Date: 19-Feb-2014 13:48:28

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.008	90	239088	4.00	
* 2 1,4-Difluorobenzene	114	11.562	11.570	-0.008	98	1194187	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.226	16.229	-0.003	96	1002280	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	80	791782	3.96	
13 Butane	43	4.515	4.523	-0.008	70	3953	0.0290	
28 2-Methyl-2-propanol	59	6.511	6.492	0.019	52	4198	0.0292	
44 Tetrahydrofuran	42	9.701	9.833	-0.132	6	7078	0.0847	
47 n-Butanol	31	10.992	10.968	0.024	57	1793	0.0414	
62 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	73	12686	0.0626	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-890-a-6.D

Injection Date: 17-Feb-2014 16:45:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-890-A-6

Lab Sample ID: 140-890-6

Worklist Smp#: 5

Client ID: 09516

Purge Vol: 500.000 mL

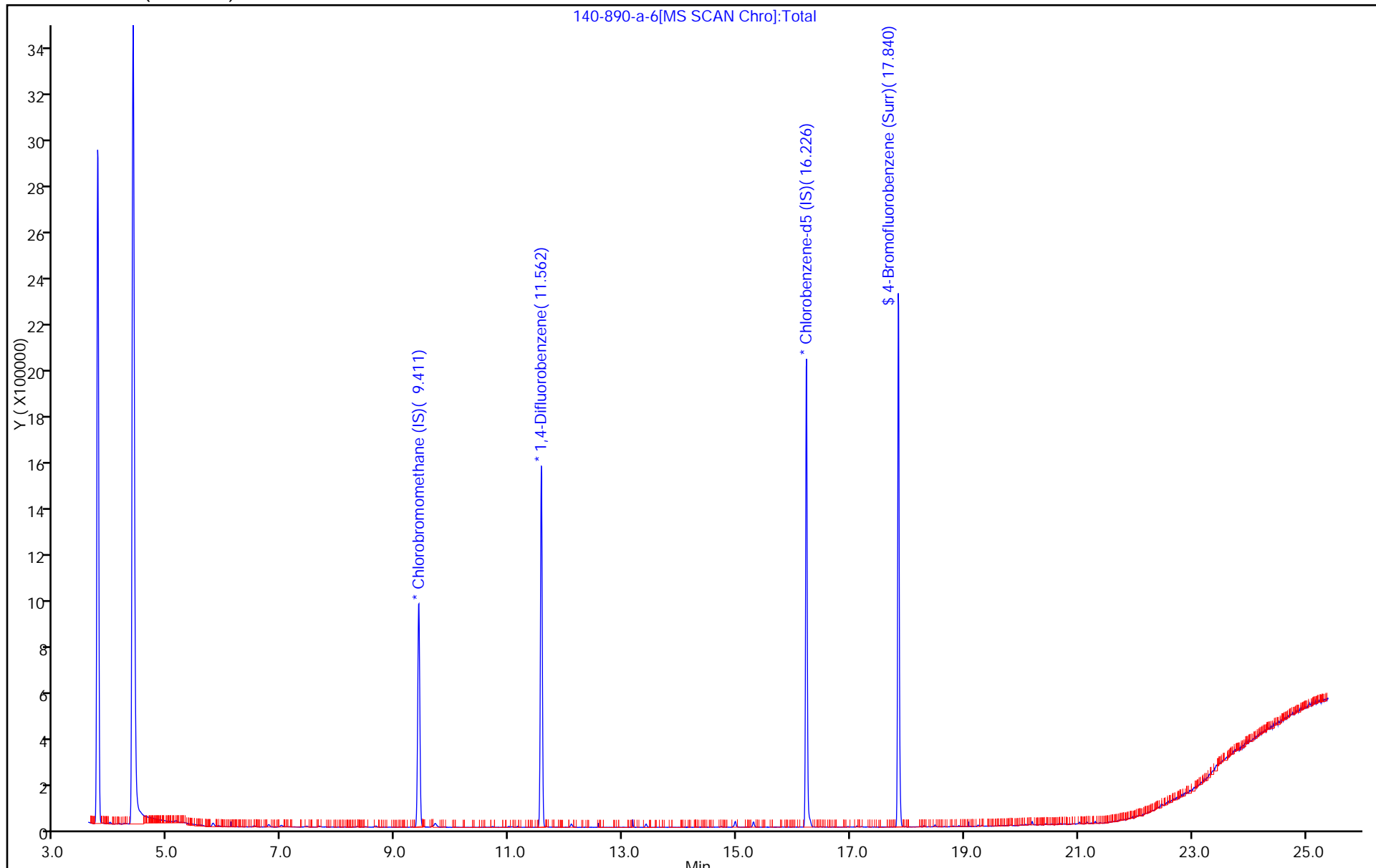
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09514 Lab Sample ID: 140-890-9
 Matrix: Air Lab File ID: 140-890-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09514 Lab Sample ID: 140-890-9
 Matrix: Air Lab File ID: 140-890-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09514 Lab Sample ID: 140-890-9
 Matrix: Air Lab File ID: 140-890-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09514 Lab Sample ID: 140-890-9
 Matrix: Air Lab File ID: 140-890-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/19/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 854 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D
 Lims ID: 140-890-A-9 Lab Sample ID: 140-890-9
 Client ID: 09514
 Sample Type: Client
 Inject. Date: 19-Feb-2014 03:40:30 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09514
 Misc. Info.: E021814,TO155,,140-0000446-021
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140217-446.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 09:21:06 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 09:21:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	83	227568	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1144242	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	998758	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	872183	3.99	
7 Propene	41	3.319	3.314	0.005	89	1956	0.0342	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	82	4362	0.0322	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140217-446.b\140-890-a-9.D

Injection Date: 19-Feb-2014 03:40:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-890-A-9

Lab Sample ID: 140-890-9

Worklist Smp#: 21

Client ID: 09514

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 15

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10716 Lab Sample ID: 140-890-10
 Matrix: Air Lab File ID: 140-890-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 00:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10716 Lab Sample ID: 140-890-10
 Matrix: Air Lab File ID: 140-890-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 00:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10716 Lab Sample ID: 140-890-10
 Matrix: Air Lab File ID: 140-890-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 00:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10716 Lab Sample ID: 140-890-10
 Matrix: Air Lab File ID: 140-890-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/19/2014 00:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D
 Lims ID: 140-890-A-10 Lab Sample ID: 140-890-10
 Client ID: 10716
 Sample Type: Client
 Inject. Date: 19-Feb-2014 00:31:30 ALS Bottle#: 7 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10716
 Misc. Info.: J021814,TO15,,140-0000448-016
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 07:51:30 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh Date: 19-Feb-2014 07:51:30

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.409	9.411	-0.002	93	257619	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.568	-0.002	97	1197722	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.225	16.227	-0.002	93	1016182	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.839	17.841	-0.002	81	802603	3.96	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-10.D

Injection Date: 19-Feb-2014 00:31:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-890-A-10

Lab Sample ID: 140-890-10

Worklist Smp#: 16

Client ID: 10716

Purge Vol: 500.000 mL

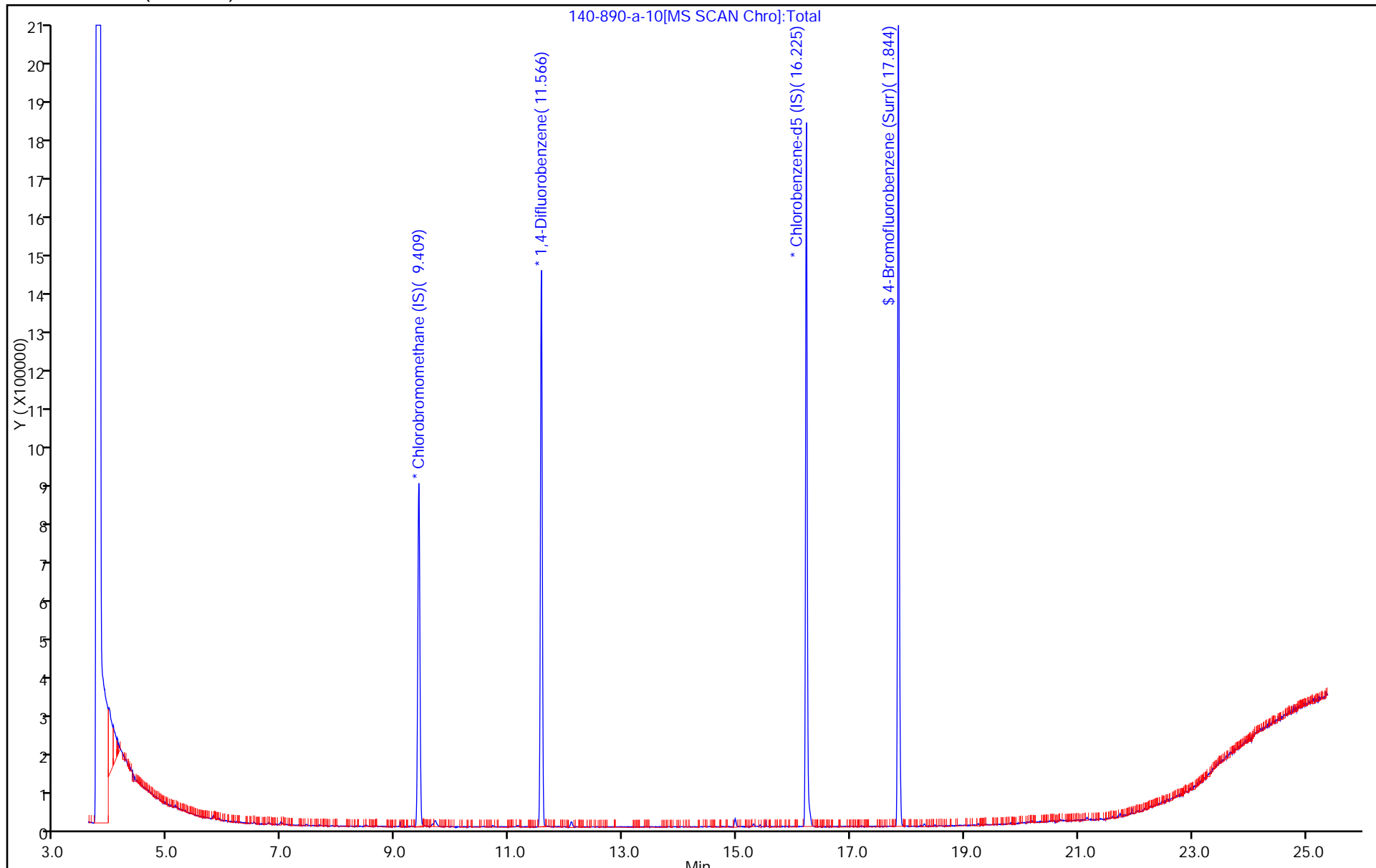
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10332 Lab Sample ID: 140-890-11
 Matrix: Air Lab File ID: 140-890-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10332 Lab Sample ID: 140-890-11
 Matrix: Air Lab File ID: 140-890-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	0.065		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10332 Lab Sample ID: 140-890-11
 Matrix: Air Lab File ID: 140-890-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 01:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10332 Lab Sample ID: 140-890-11
 Matrix: Air Lab File ID: 140-890-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/19/2014 01:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D
 Lims ID: 140-890-A-11 Lab Sample ID: 140-890-11
 Client ID: 10332
 Sample Type: Client
 Inject. Date: 19-Feb-2014 01:27:30 ALS Bottle#: 8 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10332
 Misc. Info.: J021814,TO15,,140-0000448-017
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 07:54:41 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 19-Feb-2014 07:54:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.408	9.411	-0.003	94	253024	4.00	
* 2 1,4-Difluorobenzene	114	11.565	11.568	-0.003	97	1223072	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	93	1007290	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	81	787777	3.92	
62 4-Methyl-2-pentanone (MIBK)	43	13.399	13.397	0.002	85	11803	0.0568	
73 Tetrachloroethene	129	15.406	15.409	-0.003	73	5816	0.0649	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date: 19-Feb-2014 01:27:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-890-A-11

Lab Sample ID: 140-890-11

Worklist Smp#: 17

Client ID: 10332

Purge Vol: 500.000 mL

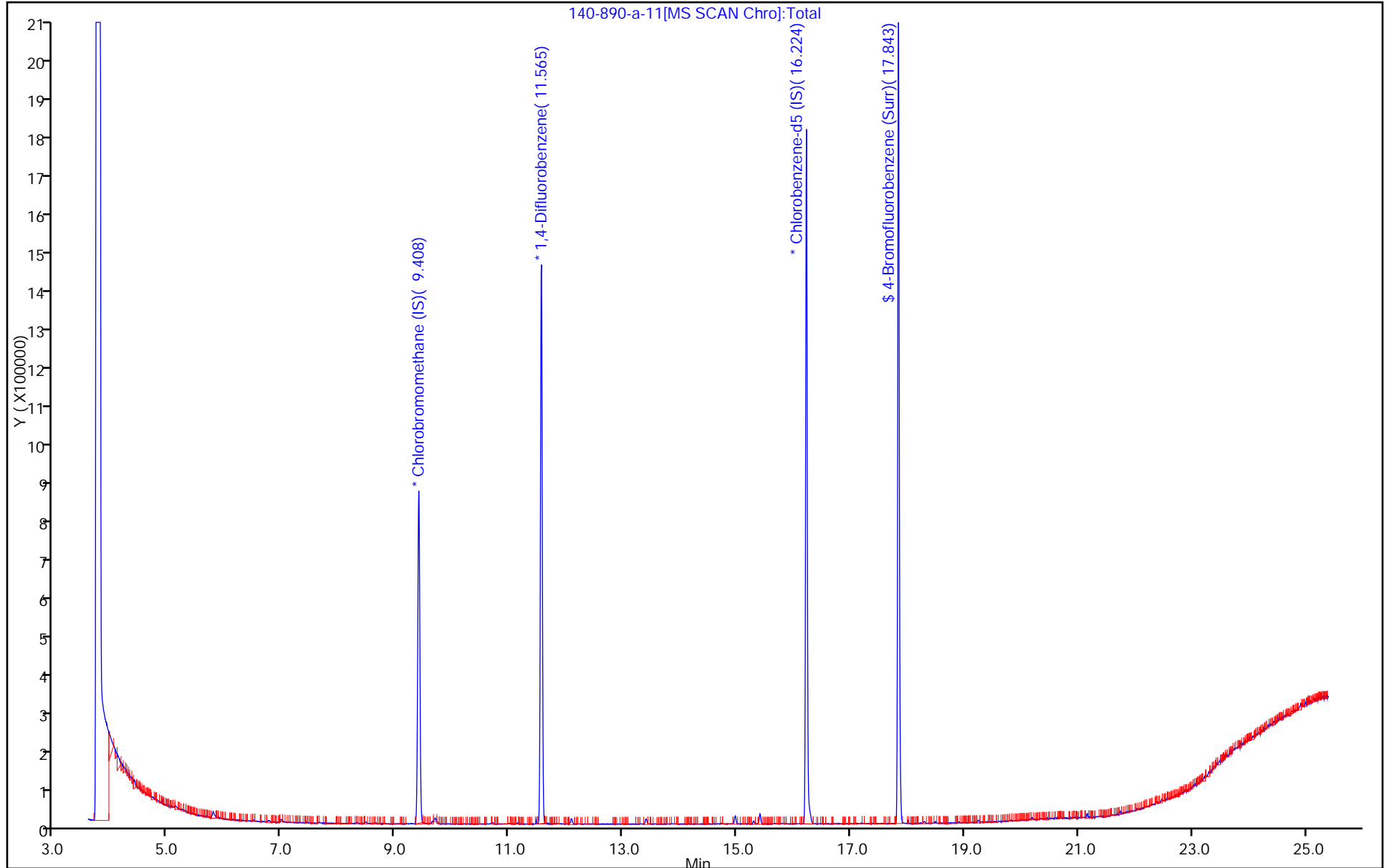
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-11.D

Injection Date: 19-Feb-2014 01:27:30

Instrument ID: MJ

Lims ID: 140-890-A-11

Lab Sample ID: 140-890-11

Client ID: 10332

Operator ID: 7126

ALS Bottle#: 8 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

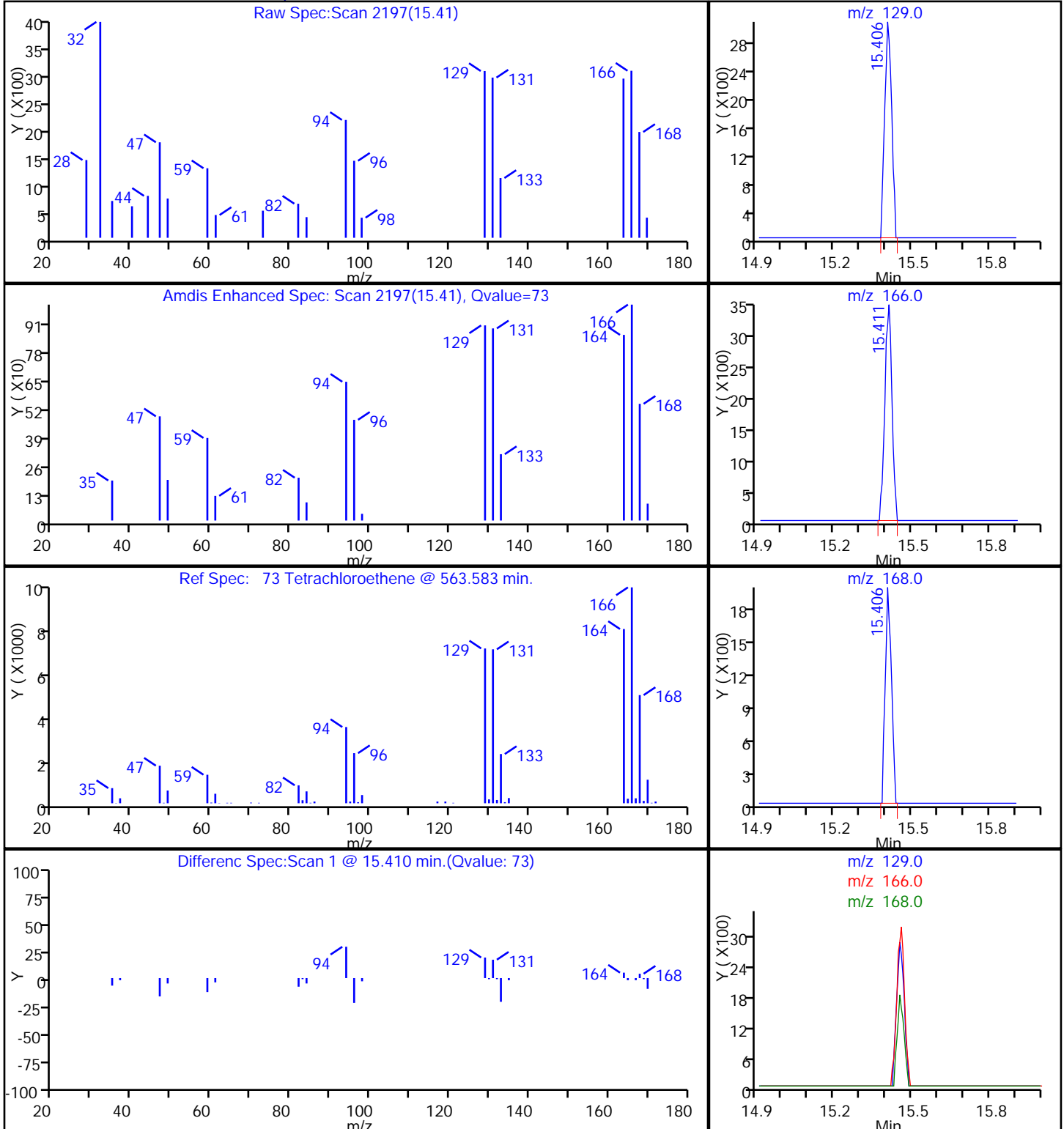
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09675 Lab Sample ID: 140-890-13
 Matrix: Air Lab File ID: 140-890-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09675 Lab Sample ID: 140-890-13
 Matrix: Air Lab File ID: 140-890-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09675 Lab Sample ID: 140-890-13
 Matrix: Air Lab File ID: 140-890-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 03:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 09675 Lab Sample ID: 140-890-13
 Matrix: Air Lab File ID: 140-890-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/19/2014 03:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D
 Lims ID: 140-890-A-13 Lab Sample ID: 140-890-13
 Client ID: 09675
 Sample Type: Client
 Inject. Date: 19-Feb-2014 03:16:30 ALS Bottle#: 10 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09675
 Misc. Info.: J021814,TO15,,140-0000448-019
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 07:57:17 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 19-Feb-2014 07:57:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.412	9.411	0.001	94	254679	4.00	
* 2 1,4-Difluorobenzene	114	11.564	11.568	-0.004	97	1217733	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.222	16.227	-0.005	93	1047481	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.841	17.841	0.0	82	841261	4.03	
9 Chloromethane	52	4.231	4.231	0.0	47	2838	0.0864	
47 n-Butanol	31	10.988	10.966	0.022	58	1764	0.0399	
62 4-Methyl-2-pentanone (MIBK)	43	13.409	13.397	0.012	86	8200	0.0397	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-13.D

Injection Date: 19-Feb-2014 03:16:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-890-A-13

Lab Sample ID: 140-890-13

Worklist Smp#: 19

Client ID: 09675

Purge Vol: 500.000 mL

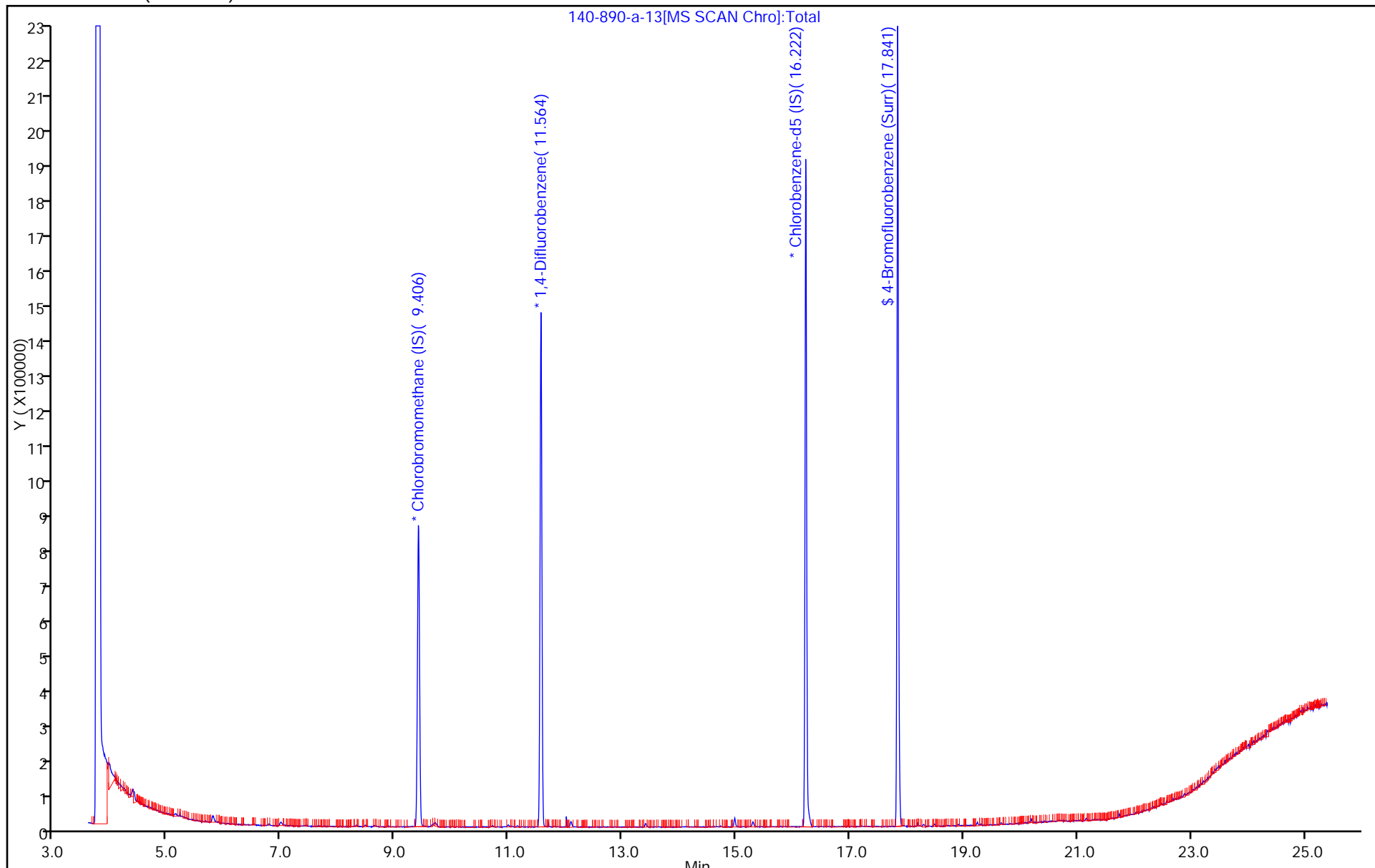
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10005 Lab Sample ID: 140-890-14
 Matrix: Air Lab File ID: 140-890-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10005 Lab Sample ID: 140-890-14
 Matrix: Air Lab File ID: 140-890-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10005 Lab Sample ID: 140-890-14
 Matrix: Air Lab File ID: 140-890-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500(mL) Date Analyzed: 02/19/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-890-1
 SDG No.: _____
 Client Sample ID: 10005 Lab Sample ID: 140-890-14
 Matrix: Air Lab File ID: 140-890-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/16/2014 12:10
 Sample wt/vol: 500 (mL) Date Analyzed: 02/19/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 856 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D
 Lims ID: 140-890-A-14 Lab Sample ID: 140-890-14
 Client ID: 10005
 Sample Type: Client
 Inject. Date: 19-Feb-2014 04:11:30 ALS Bottle#: 11 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10005
 Misc. Info.: J021814,TO15,,140-0000448-020
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140217-448.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Feb-2014 07:57:39 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 19-Feb-2014 07:57:39

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.411	-0.008	93	249140	4.00	
* 2 1,4-Difluorobenzene	114	11.560	11.568	-0.008	97	1242271	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.224	16.227	-0.003	92	1006844	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.843	17.841	0.002	85	658099	3.28	
62 4-Methyl-2-pentanone (MIBK)	43	13.405	13.397	0.008	76	8084	0.0383	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140217-448.b\140-890-a-14.D

Injection Date: 19-Feb-2014 04:11:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-890-A-14

Lab Sample ID: 140-890-14

Worklist Smp#: 20

Client ID: 10005

Purge Vol: 500.000 mL

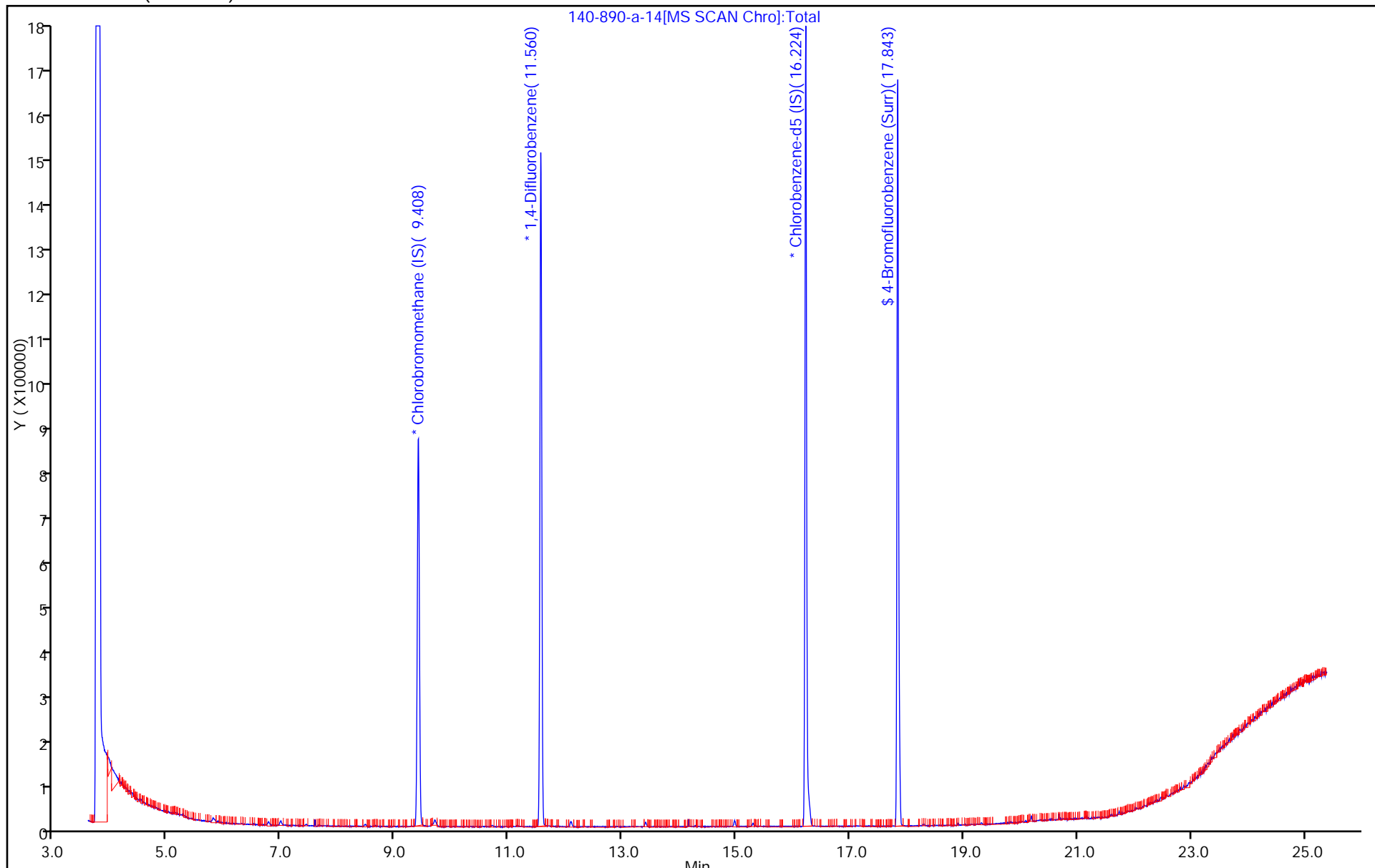
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10967 Lab Sample ID: 140-935-1
 Matrix: Air Lab File ID: 140-935-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10967 Lab Sample ID: 140-935-1
 Matrix: Air Lab File ID: 140-935-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10967 Lab Sample ID: 140-935-1
 Matrix: Air Lab File ID: 140-935-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10967 Lab Sample ID: 140-935-1
 Matrix: Air Lab File ID: 140-935-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 11:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-1.D
 Lims ID: 140-935-A-1 Lab Sample ID: 140-935-1
 Client ID: 10967
 Sample Type: Client
 Inject. Date: 24-Feb-2014 11:45:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10967
 Misc. Info.: E022414,TO155,,140-0000468-005
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 08:38:50 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 08:38:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	301761	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	95	1556647	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	93	1352626	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1157772	3.91	
7 Propene	41	3.320	3.314	0.006	76	5200	0.0685	
14 Butane	43	3.778	3.778	0.0	88	9000	0.0624	
19 2-Methylbutane	43	4.544	4.544	0.0	70	2143	0.0203	
23 Acetone	58	4.894	4.883	0.011	96	35359	0.7736	
25 Pentane	72	4.970	4.970	0.0	82	646	0.0326	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	93	4553	0.0922	
40 Hexane	56	7.596	7.596	0.0	49	2010	0.0250	
53 Isooctane	57	10.783	10.793	-0.010	72	15783	0.0326	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	79	4982	0.0270	
70 n-Octane	85	14.104	14.104	0.0	67	2144	0.0166	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-1.D

Injection Date: 24-Feb-2014 11:45:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-935-A-1

Lab Sample ID: 140-935-1

Worklist Smp#: 5

Client ID: 10967

Purge Vol: 500.000 mL

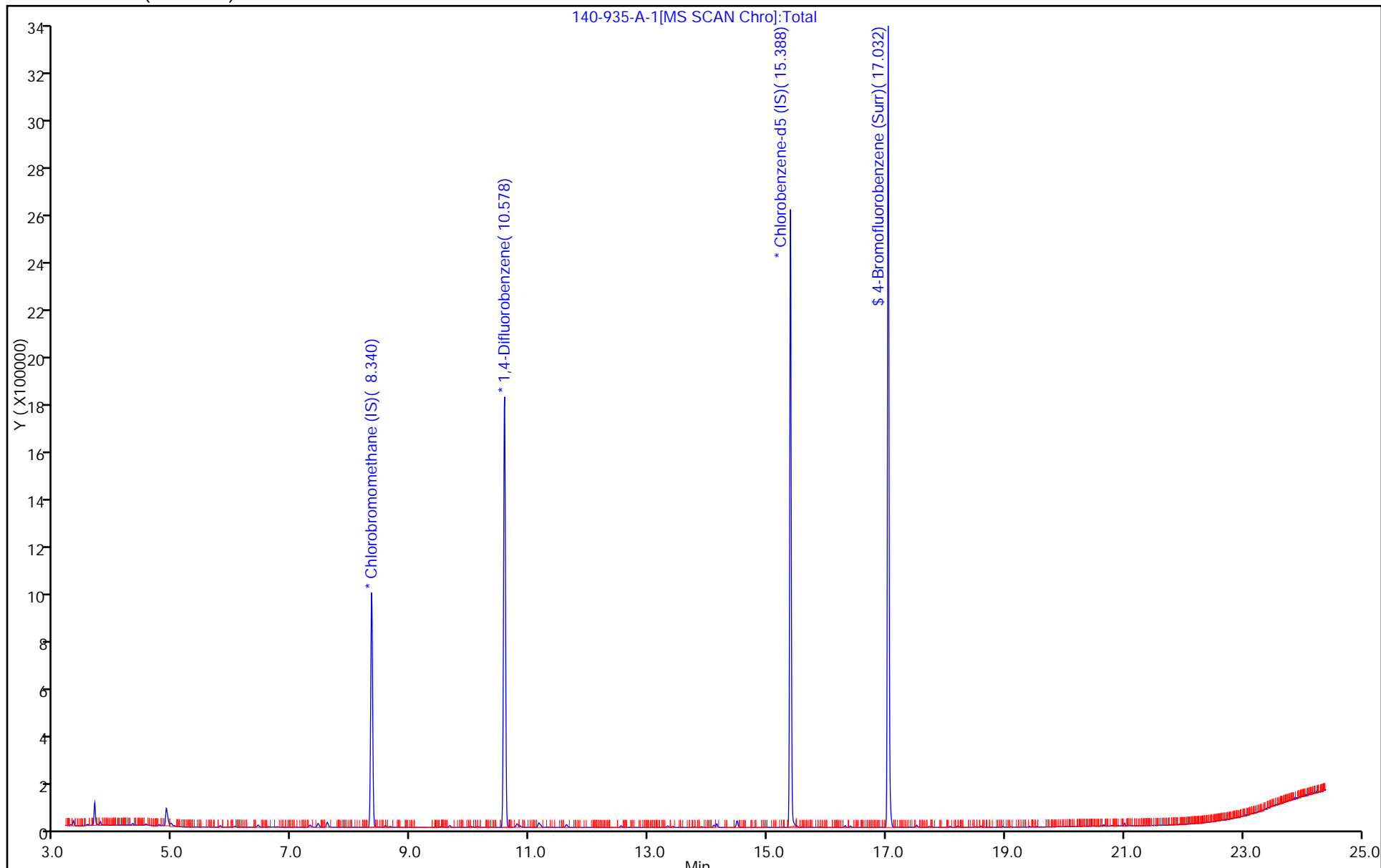
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10188 Lab Sample ID: 140-935-4
 Matrix: Air Lab File ID: 140-935-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 14:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10188 Lab Sample ID: 140-935-4
 Matrix: Air Lab File ID: 140-935-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 14:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10188 Lab Sample ID: 140-935-4
 Matrix: Air Lab File ID: 140-935-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 14:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10188 Lab Sample ID: 140-935-4
 Matrix: Air Lab File ID: 140-935-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 14:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-4.D
 Lims ID: 140-935-A-4 Lab Sample ID: 140-935-4
 Client ID: 10188
 Sample Type: Client
 Inject. Date: 24-Feb-2014 14:03:30 ALS Bottle#: 5 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10188
 Misc. Info.: E022414,TO155,,140-0000468-008
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 08:38:50 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:40:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	268913	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1351618	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1197176	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1046768	3.99	
7 Propene	41	3.319	3.314	0.005	85	2145	0.0317	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	82	4043	0.0252	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-4.D

Injection Date: 24-Feb-2014 14:03:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-935-A-4

Lab Sample ID: 140-935-4

Worklist Smp#: 8

Client ID: 10188

Purge Vol: 500.000 mL

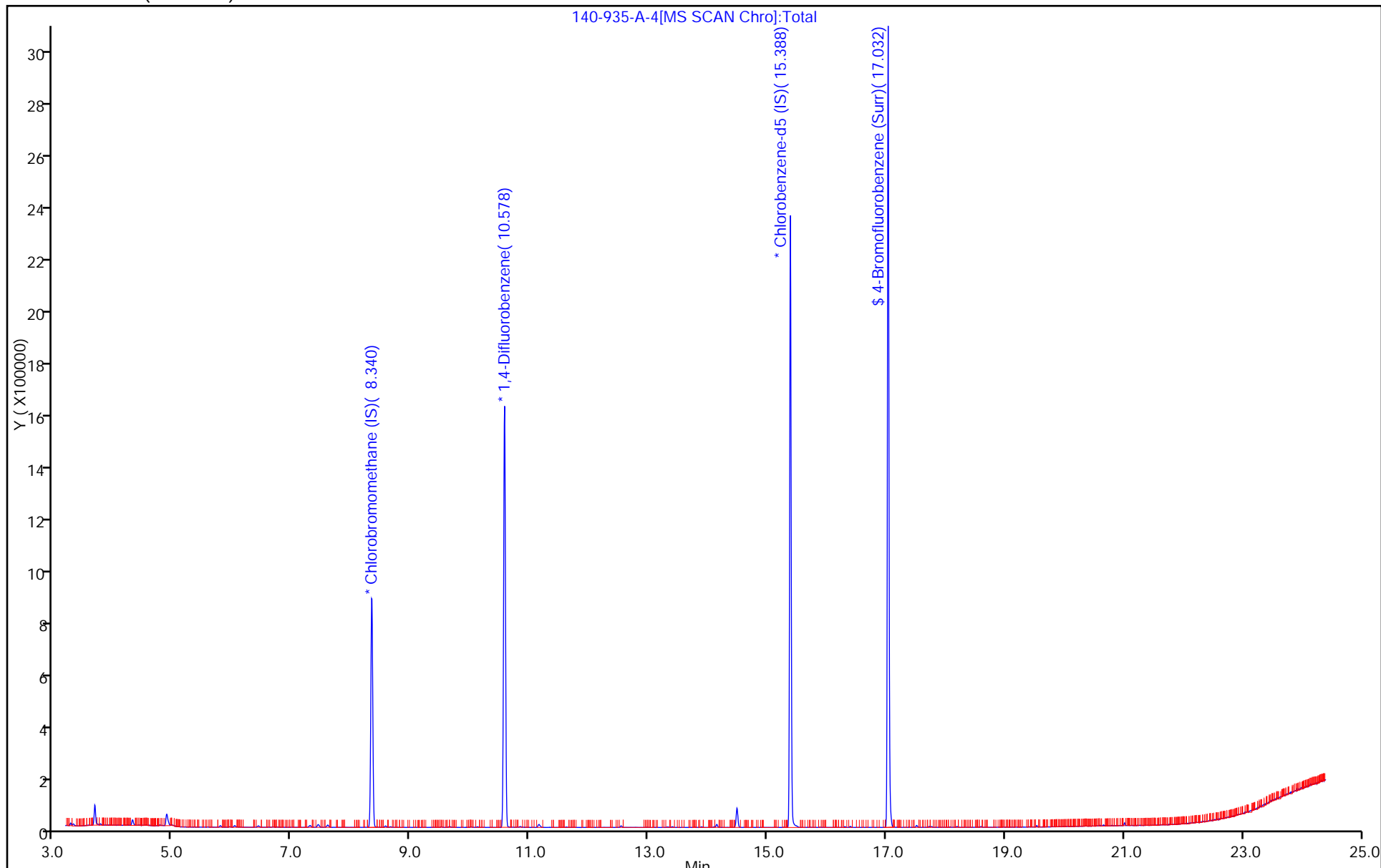
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10401 Lab Sample ID: 140-935-6
 Matrix: Air Lab File ID: 140-935-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10401 Lab Sample ID: 140-935-6
 Matrix: Air Lab File ID: 140-935-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10401 Lab Sample ID: 140-935-6
 Matrix: Air Lab File ID: 140-935-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-935-1
 SDG No.: _____
 Client Sample ID: 10401 Lab Sample ID: 140-935-6
 Matrix: Air Lab File ID: 140-935-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 09:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-6.D
 Lims ID: 140-935-A-6 Lab Sample ID: 140-935-6
 Client ID: 10401
 Sample Type: Client
 Inject. Date: 24-Feb-2014 15:34:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10401
 Misc. Info.: E022414,TO155,,140-0000468-010
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 08:41:49 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 08:41:49

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	83	270190	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1379161	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1193335	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	1038922	3.98	
7 Propene	41	3.319	3.314	0.005	77	4590	0.0675	
14 Butane	43	3.778	3.778	0.0	80	8380	0.0649	
19 2-Methylbutane	43	4.549	4.544	0.005	67	2389	0.0252	
23 Acetone	58	4.889	4.883	0.006	98	41196	1.01	
25 Pentane	72	4.964	4.970	-0.006	90	627	0.0353	
39 2-Butanone (MEK)	72	7.590	7.585	0.005	95	5392	0.1219	
40 Hexane	56	7.590	7.596	-0.006	46	1928	0.0268	
54 n-Heptane	71	11.187	11.187	0.0	50	2531	0.0241	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	84	6326	0.0387	
70 n-Octane	85	14.099	14.104	-0.005	67	2149	0.0189	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-935-A-6.D

Injection Date: 24-Feb-2014 15:34:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-935-A-6

Lab Sample ID: 140-935-6

Worklist Smp#: 10

Client ID: 10401

Purge Vol: 500.000 mL

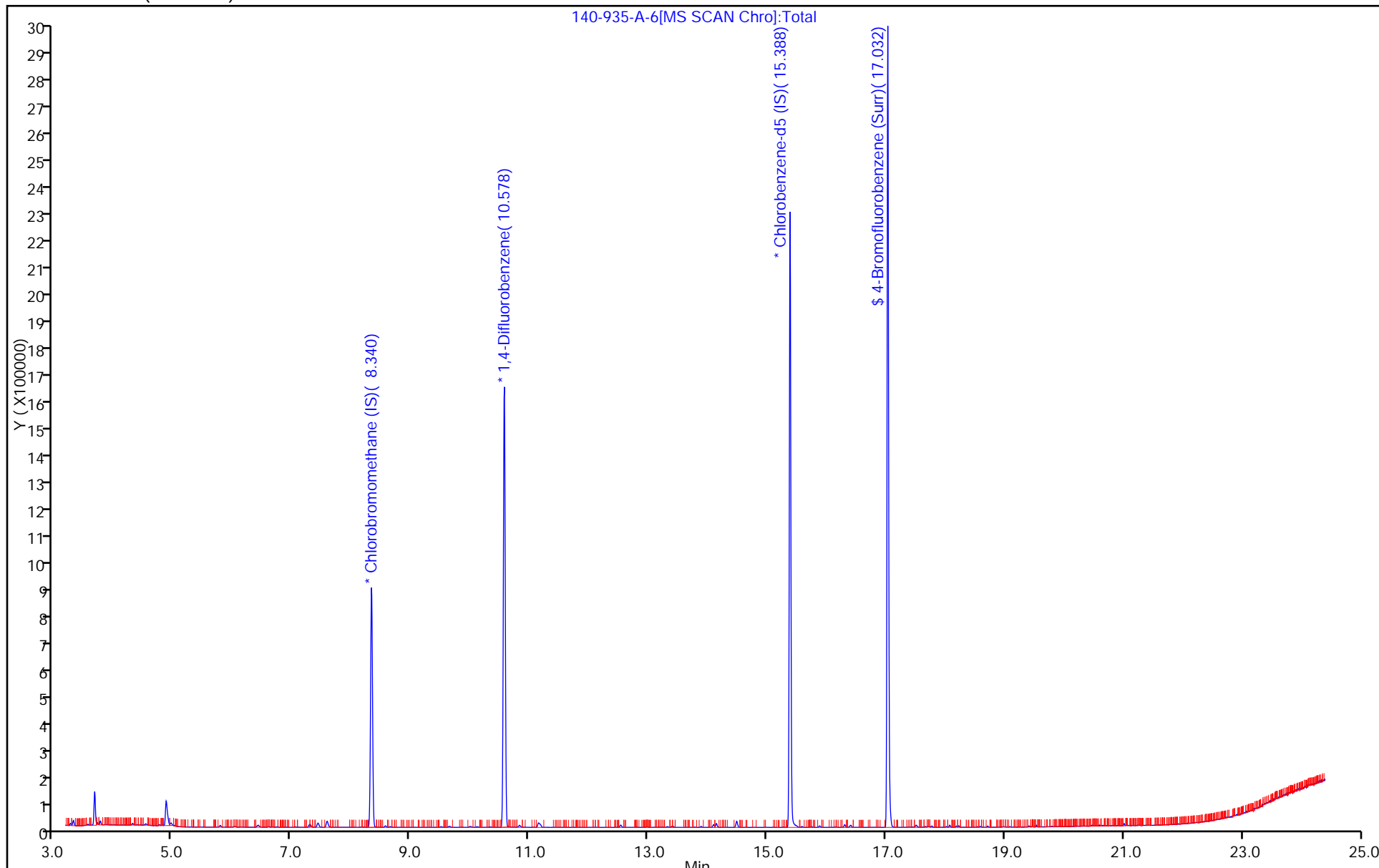
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10207 Lab Sample ID: 140-941-5
 Matrix: Air Lab File ID: 140-941-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10207 Lab Sample ID: 140-941-5
 Matrix: Air Lab File ID: 140-941-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10207 Lab Sample ID: 140-941-5
 Matrix: Air Lab File ID: 140-941-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10207 Lab Sample ID: 140-941-5
 Matrix: Air Lab File ID: 140-941-a-5.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 03:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-5.D
 Lims ID: 140-941-A-5 Lab Sample ID: 140-941-5
 Client ID: 10207
 Sample Type: Client
 Inject. Date: 25-Feb-2014 03:40:30 ALS Bottle#: 12 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10207
 Misc. Info.: J022414,TO15,,140-0000467-017
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 07:36:10 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 07:36:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.400	9.403	-0.003	92	219634	4.00	
* 2 1,4-Difluorobenzene	114	11.558	11.560	-0.002	97	1060786	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.216	16.219	-0.003	93	889822	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.835	17.833	0.002	82	699453	3.94	
13 Butane	43	4.527	4.519	0.008	61	4722	0.0378	
62 4-Methyl-2-pentanone (MIBK)	43	13.397	13.389	0.008	84	12867	0.0714	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-5.D

Injection Date: 25-Feb-2014 03:40:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-941-A-5

Lab Sample ID: 140-941-5

Worklist Smp#: 17

Client ID: 10207

Purge Vol: 500.000 mL

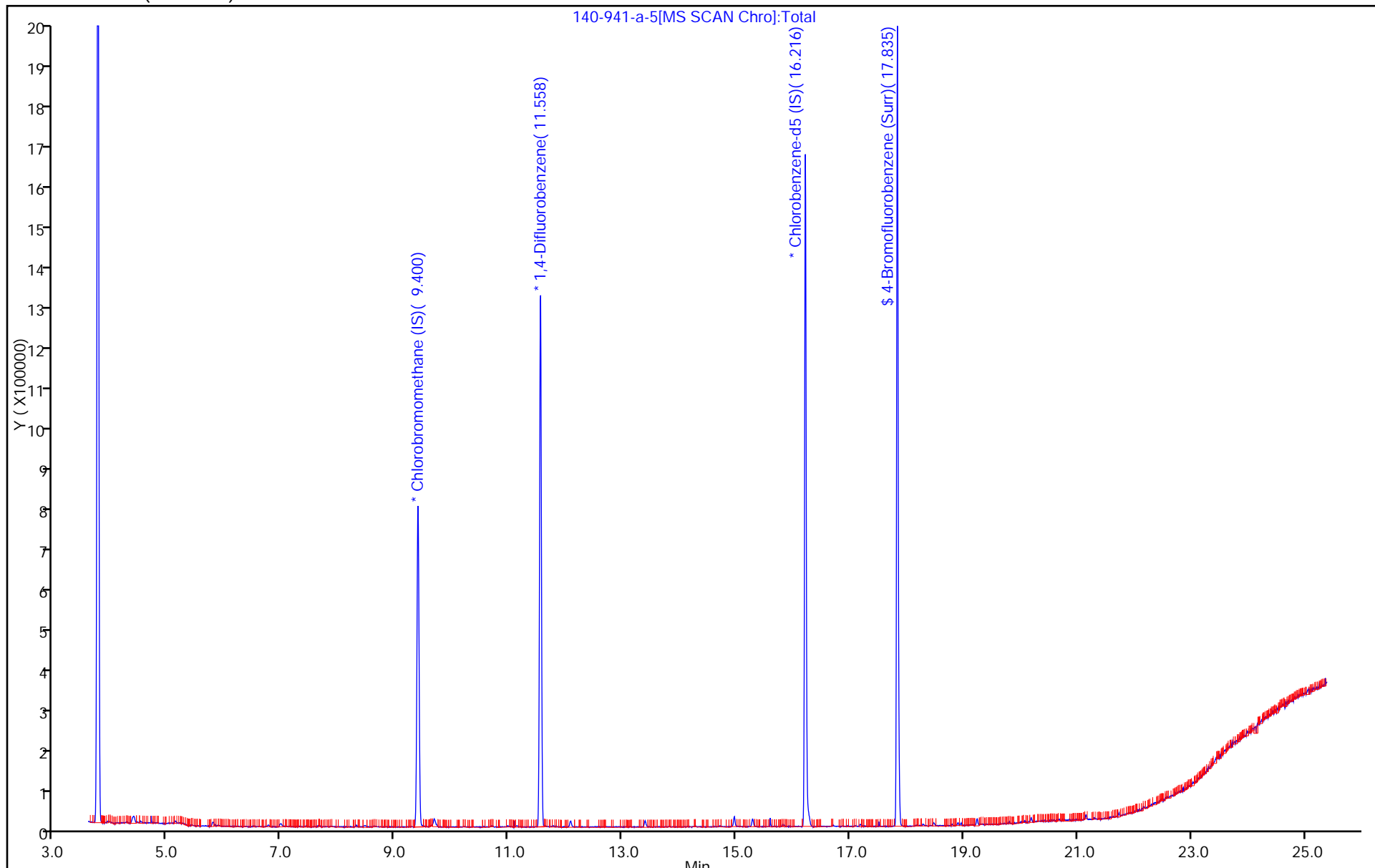
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10513 Lab Sample ID: 140-941-6
 Matrix: Air Lab File ID: 140-941-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10513 Lab Sample ID: 140-941-6
 Matrix: Air Lab File ID: 140-941-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10513 Lab Sample ID: 140-941-6
 Matrix: Air Lab File ID: 140-941-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10513 Lab Sample ID: 140-941-6
 Matrix: Air Lab File ID: 140-941-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 04:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-6.D
 Lims ID: 140-941-A-6 Lab Sample ID: 140-941-6
 Client ID: 10513
 Sample Type: Client
 Inject. Date: 25-Feb-2014 04:37:30 ALS Bottle#: 13 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10513
 Misc. Info.: J022414,TO15,,140-0000467-018
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 07:36:10 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 07:36:27

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.398	9.403	-0.005	92	216371	4.00	
* 2 1,4-Difluorobenzene	114	11.556	11.560	-0.004	95	971711	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.220	16.219	0.001	94	754923	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.833	17.833	0.0	81	573569	3.81	
62 4-Methyl-2-pentanone (MIBK)	43	13.395	13.389	0.006	48	4534	0.0275	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-6.D

Injection Date: 25-Feb-2014 04:37:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-941-A-6

Lab Sample ID: 140-941-6

Worklist Smp#: 18

Client ID: 10513

Purge Vol: 500.000 mL

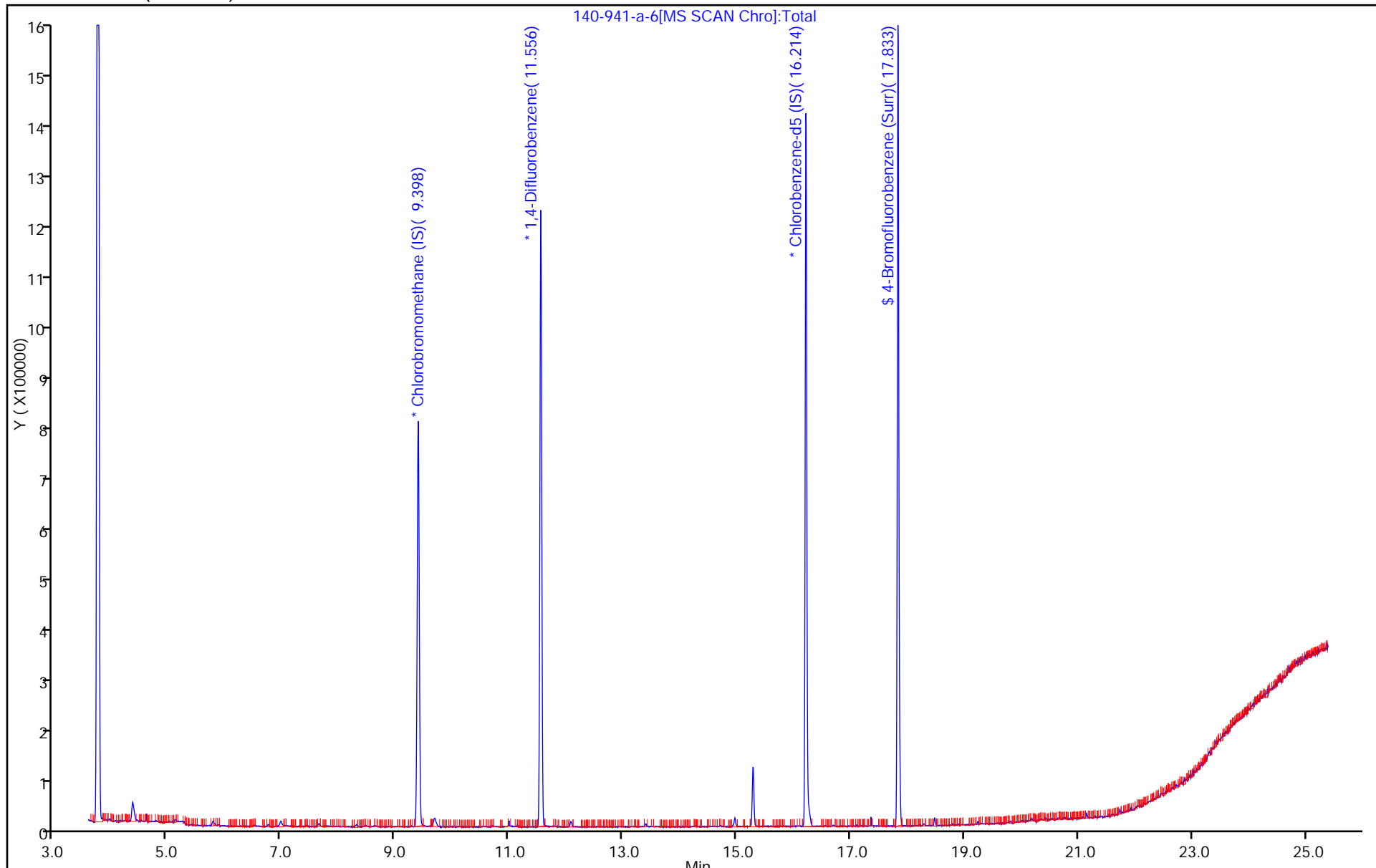
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10852 Lab Sample ID: 140-941-9
 Matrix: Air Lab File ID: 140-941-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 05:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10852 Lab Sample ID: 140-941-9
 Matrix: Air Lab File ID: 140-941-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 05:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10852 Lab Sample ID: 140-941-9
 Matrix: Air Lab File ID: 140-941-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 05:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10852 Lab Sample ID: 140-941-9
 Matrix: Air Lab File ID: 140-941-a-9.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 05:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 882 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-9.D
 Lims ID: 140-941-A-9 Lab Sample ID: 140-941-9
 Client ID: 10852
 Sample Type: Client
 Inject. Date: 25-Feb-2014 05:31:30 ALS Bottle#: 14 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10852
 Misc. Info.: J022414,TO15,,140-0000467-019
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140223-467.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 07:36:10 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 07:36:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.398	9.403	-0.005	92	222619	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.560	-0.005	95	1087148	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.219	-0.005	94	939678	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.833	17.833	0.0	82	745194	3.97	
13 Butane	43	4.524	4.519	0.005	81	8459	0.0667	
19 2-Methylbutane	43	5.423	5.417	0.006	62	2601	0.0249	
62 4-Methyl-2-pentanone (MIBK)	43	13.395	13.389	0.006	84	14779	0.0801	
69 2-Hexanone	58	14.708	14.697	0.011	51	3557	0.0500	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140223-467.b\140-941-a-9.D

Injection Date: 25-Feb-2014 05:31:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-941-A-9

Lab Sample ID: 140-941-9

Worklist Smp#: 19

Client ID: 10852

Purge Vol: 500.000 mL

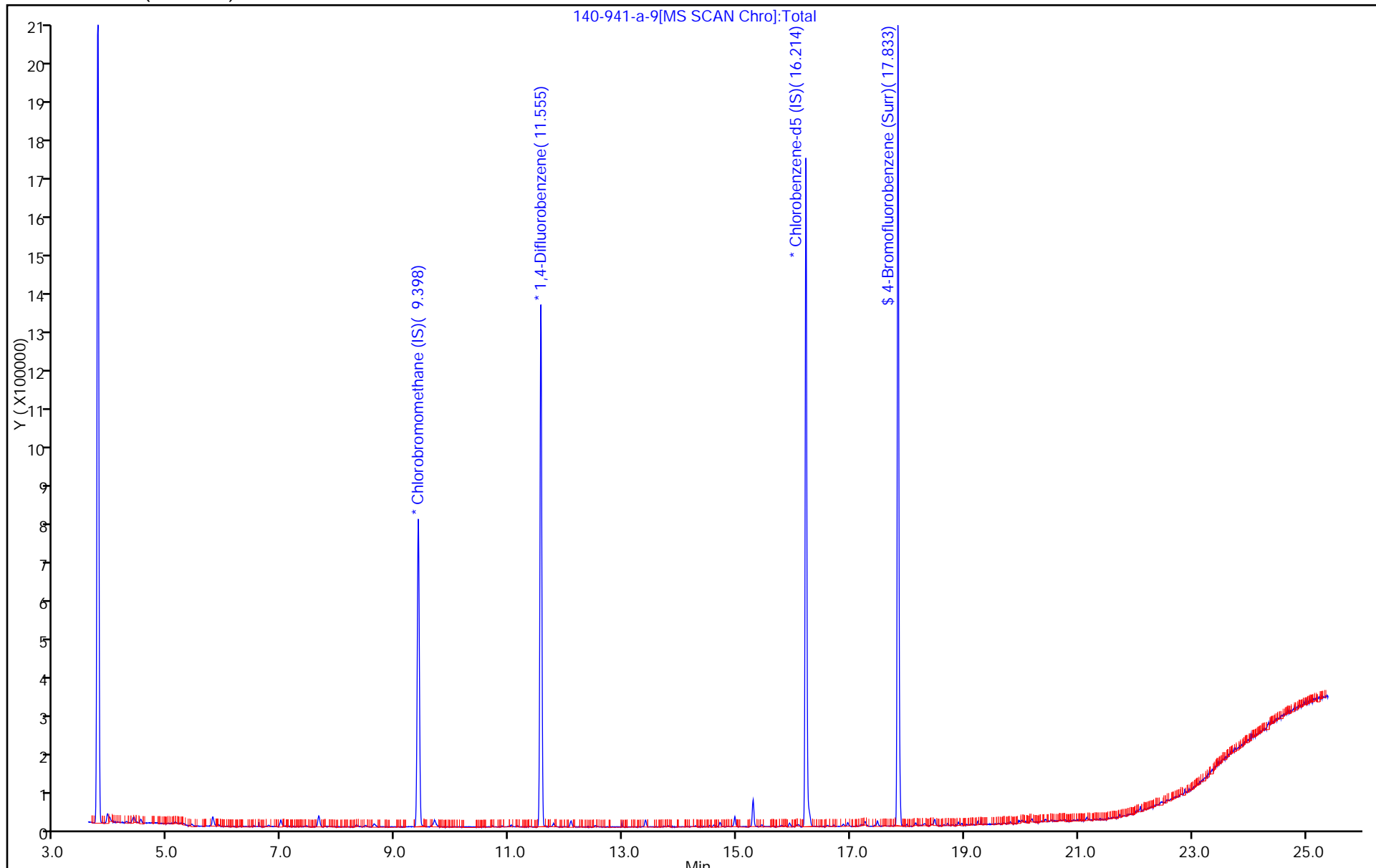
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10092 Lab Sample ID: 140-941-11
 Matrix: Air Lab File ID: 140-941-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10092 Lab Sample ID: 140-941-11
 Matrix: Air Lab File ID: 140-941-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10092 Lab Sample ID: 140-941-11
 Matrix: Air Lab File ID: 140-941-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-941-1
 SDG No.: _____
 Client Sample ID: 10092 Lab Sample ID: 140-941-11
 Matrix: Air Lab File ID: 140-941-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/21/2014 16:15
 Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 21:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-941-A-11.D
 Lims ID: 140-941-A-11 Lab Sample ID: 140-941-11
 Client ID: 10092
 Sample Type: Client
 Inject. Date: 24-Feb-2014 21:04:30 ALS Bottle#: 14 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10092
 Misc. Info.: E022414,TO155,,140-0000468-017
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 08:48:39 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 08:48:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	254148	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1274216	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	1104896	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	959304	3.96	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	79	4188	0.0277	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-941-A-11.D

Injection Date: 24-Feb-2014 21:04:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-941-A-11

Lab Sample ID: 140-941-11

Worklist Smp#: 17

Client ID: 10092

Purge Vol: 500.000 mL

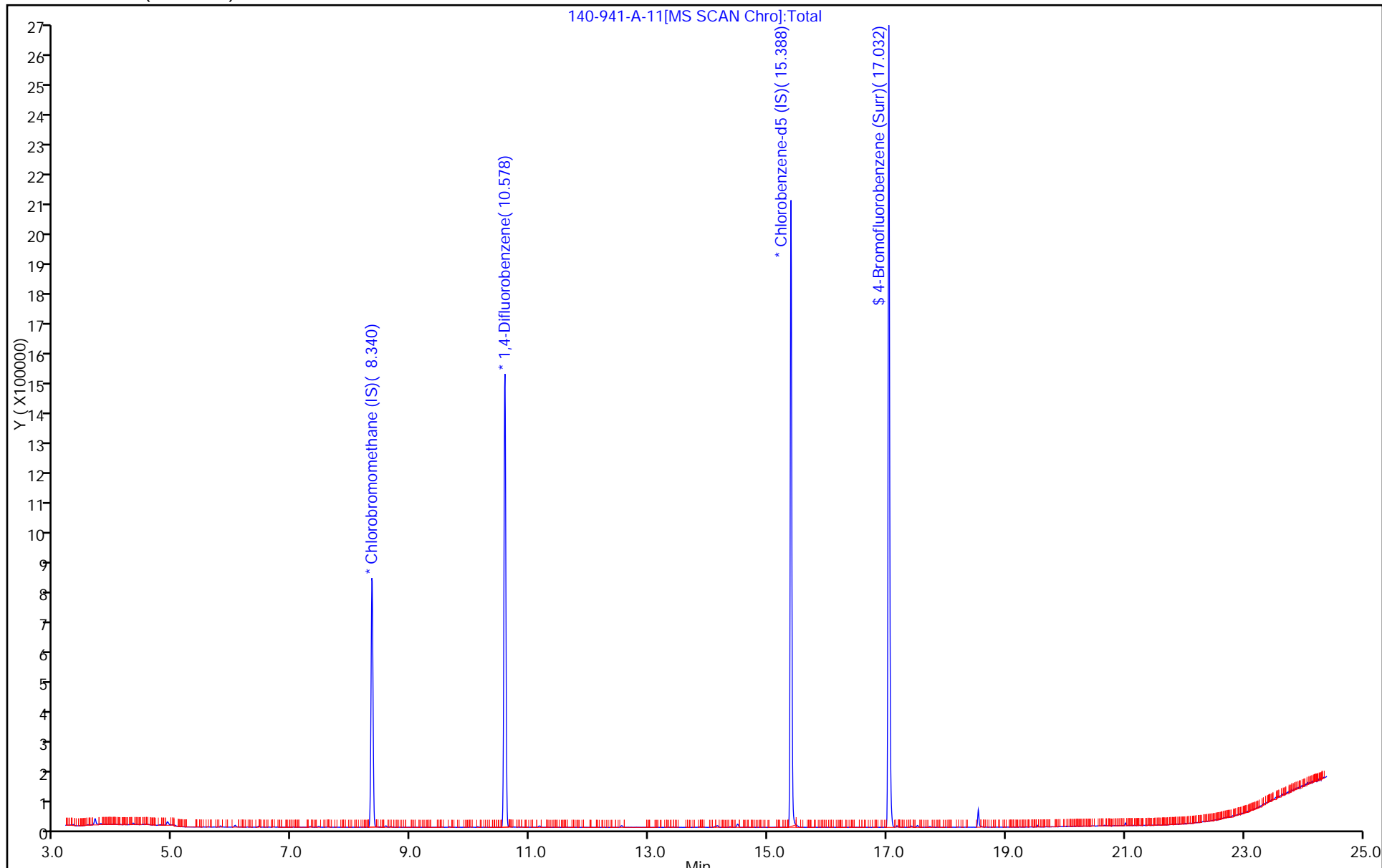
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1
 SDG No.: _____
 Client Sample ID: 09761 Lab Sample ID: 140-946-11
 Matrix: Air Lab File ID: 140-946-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1
 SDG No.: _____
 Client Sample ID: 09761 Lab Sample ID: 140-946-11
 Matrix: Air Lab File ID: 140-946-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1
 SDG No.: _____
 Client Sample ID: 09761 Lab Sample ID: 140-946-11
 Matrix: Air Lab File ID: 140-946-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1
 SDG No.: _____
 Client Sample ID: 09761 Lab Sample ID: 140-946-11
 Matrix: Air Lab File ID: 140-946-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 11:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-946-A-11.D
 Lims ID: 140-946-A-11 Lab Sample ID: 140-946-11
 Client ID: 09761
 Sample Type: Client
 Inject. Date: 24-Feb-2014 11:00:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09761
 Misc. Info.: E022414,TO155,,140-0000468-004
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 08:38:15 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 08:38:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	81	336893	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	95	1714709	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	90	1479308	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	87	1244674	3.84	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-946-A-11.D

Injection Date: 24-Feb-2014 11:00:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-946-A-11

Lab Sample ID: 140-946-11

Worklist Smp#: 4

Client ID: 09761

Purge Vol: 500.000 mL

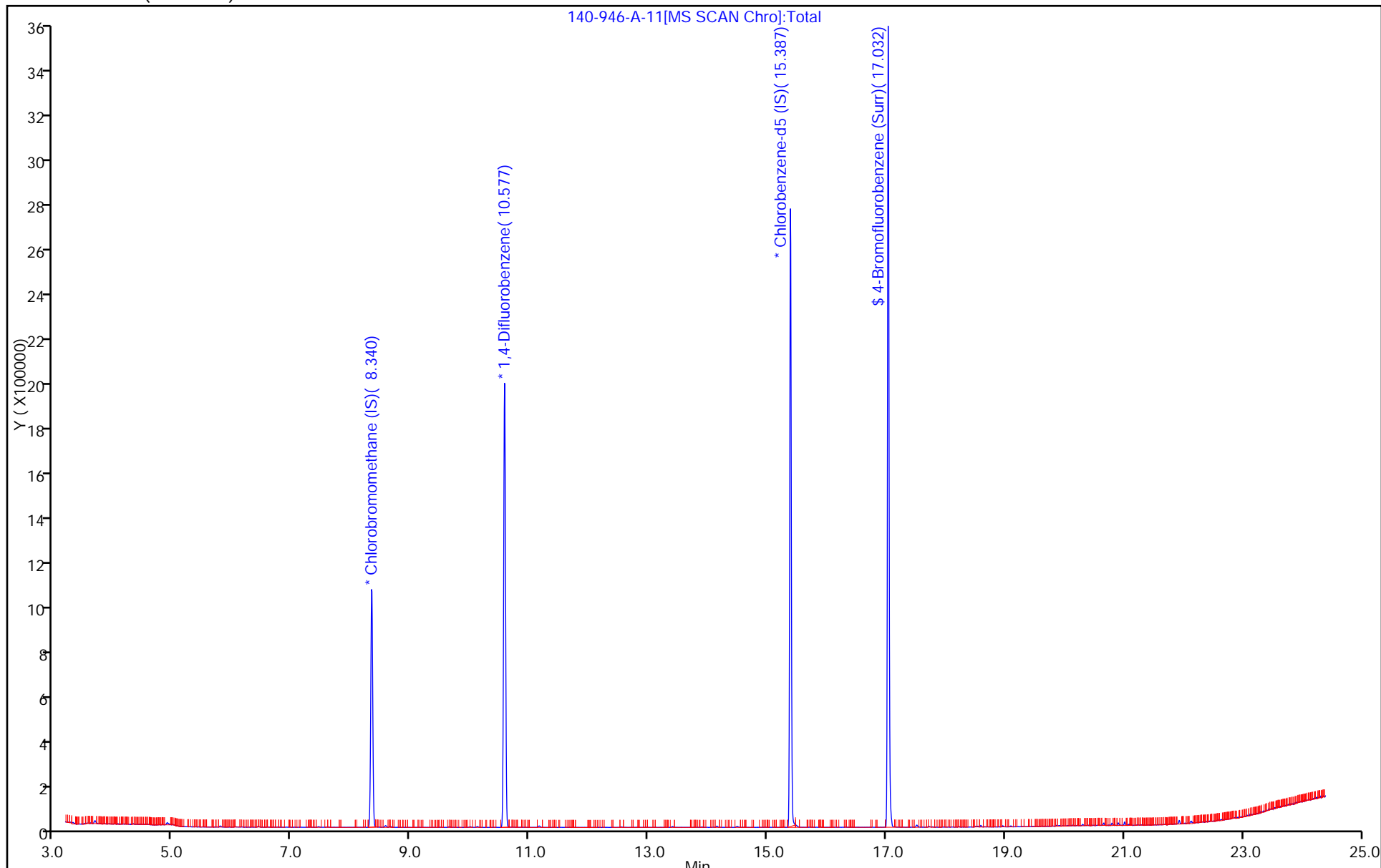
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10187 Lab Sample ID: 140-947-6
 Matrix: Air Lab File ID: 140-947-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10187 Lab Sample ID: 140-947-6
 Matrix: Air Lab File ID: 140-947-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10187 Lab Sample ID: 140-947-6
 Matrix: Air Lab File ID: 140-947-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10187 Lab Sample ID: 140-947-6
 Matrix: Air Lab File ID: 140-947-A-6.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 21:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-6.D
 Lims ID: 140-947-A-6 Lab Sample ID: 140-947-6
 Client ID: 10187
 Sample Type: Client
 Inject. Date: 24-Feb-2014 21:18:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10187
 Misc. Info.: G022414,TO15,140-0000469-009
 Operator ID: 403648 Instrument ID: MG
 Method: \\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 09:47:06 Calib Date: 11-Feb-2014 18:08:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 09:47:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.614	9.624	-0.010	77	547843	4.00	
* 2 1,4-Difluorobenzene	114	11.744	11.749	-0.005	93	2154650	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	85	1035215	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	94	377814	2.75	
62 4-Methyl-2-pentanone (MIBK)	43	13.626	13.599	0.027	79	4447	0.0209	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-6.D

Injection Date: 24-Feb-2014 21:18:30

Instrument ID: MG

Operator ID: 403648

Lims ID: 140-947-A-6

Lab Sample ID: 140-947-6

Worklist Smp#: 9

Client ID: 10187

Purge Vol: 500.000 mL

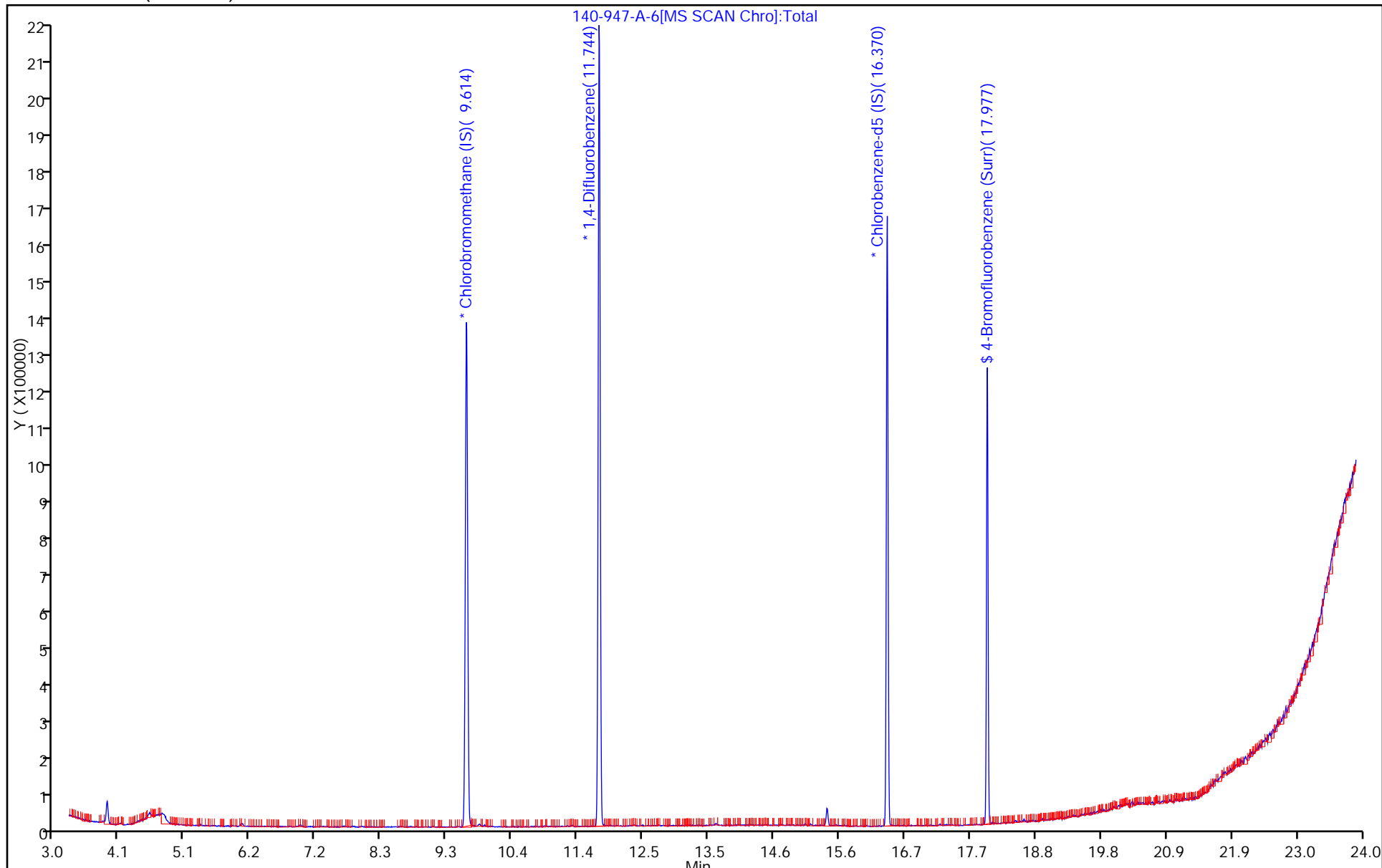
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 09509 Lab Sample ID: 140-947-7
 Matrix: Air Lab File ID: 140-947-A-7.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 22:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 09509 Lab Sample ID: 140-947-7
 Matrix: Air Lab File ID: 140-947-A-7.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 22:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 09509 Lab Sample ID: 140-947-7
 Matrix: Air Lab File ID: 140-947-A-7.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 22:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 09509 Lab Sample ID: 140-947-7
 Matrix: Air Lab File ID: 140-947-A-7.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 22:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-7.D
 Lims ID: 140-947-A-7 Lab Sample ID: 140-947-7
 Client ID: 09509
 Sample Type: Client
 Inject. Date: 24-Feb-2014 22:13:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09509
 Misc. Info.: G022414,TO15,140-0000469-010
 Operator ID: 403648 Instrument ID: MG
 Method: \\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 09:47:38 Calib Date: 11-Feb-2014 18:08:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 09:47:38

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.624	-0.005	77	581963	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.749	0.0	93	2399427	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	86	1134547	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	95	400815	2.67	
43 Chloroform	83	9.625	9.630	-0.005	15	5696	0.0154	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-7.D

Injection Date: 24-Feb-2014 22:13:30

Instrument ID: MG

Operator ID: 403648

Lims ID: 140-947-A-7

Lab Sample ID: 140-947-7

Worklist Smp#: 10

Client ID: 09509

Purge Vol: 500.000 mL

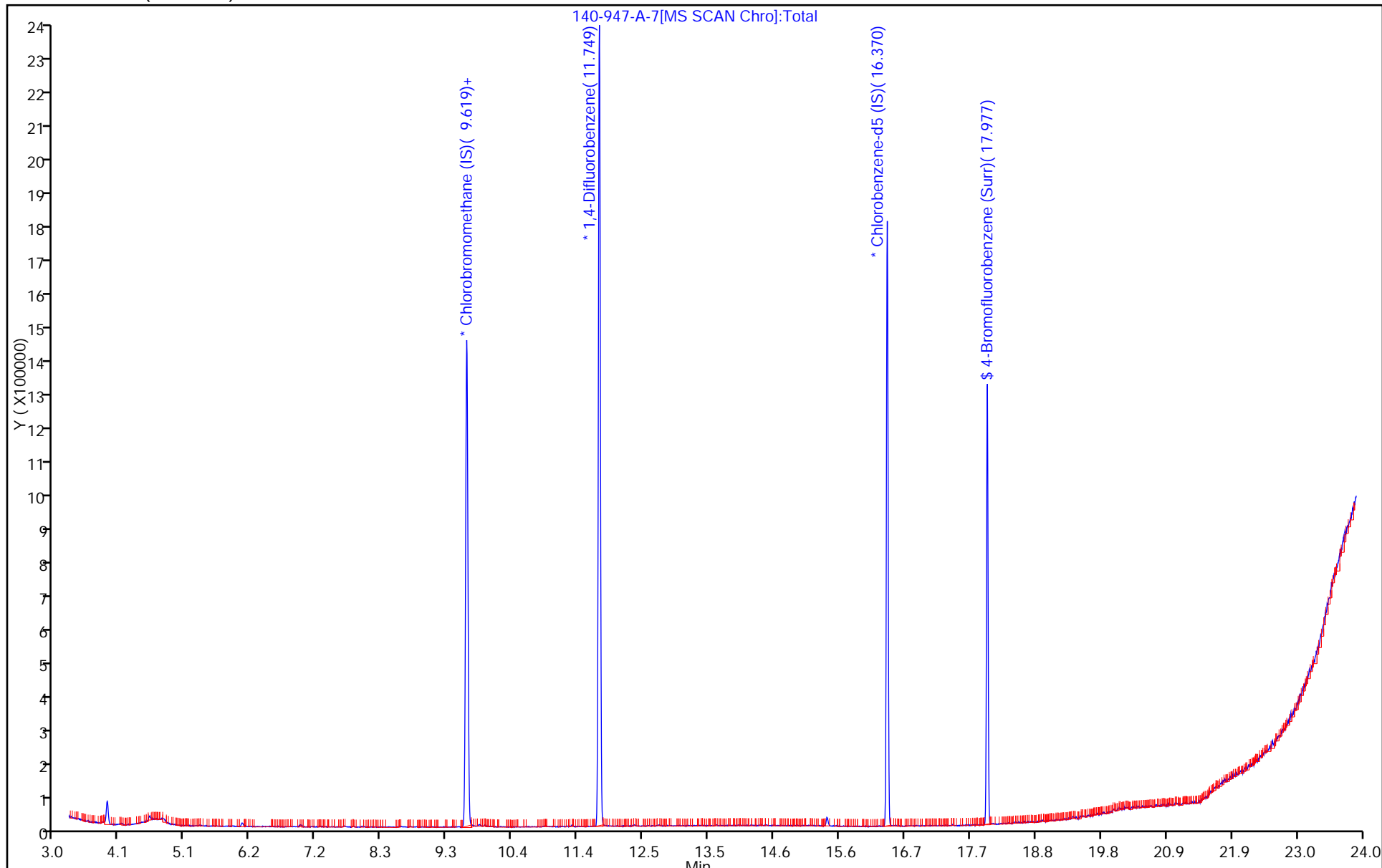
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10993 Lab Sample ID: 140-947-9
 Matrix: Air Lab File ID: 140-947-A-9.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 00:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10993 Lab Sample ID: 140-947-9
 Matrix: Air Lab File ID: 140-947-A-9.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 00:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10993 Lab Sample ID: 140-947-9
 Matrix: Air Lab File ID: 140-947-A-9.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 00:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10993 Lab Sample ID: 140-947-9
 Matrix: Air Lab File ID: 140-947-A-9.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 00:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-9.D
 Lims ID: 140-947-A-9 Lab Sample ID: 140-947-9
 Client ID: 10993
 Sample Type: Client
 Inject. Date: 25-Feb-2014 00:02:30 ALS Bottle#: 9 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10993
 Misc. Info.: G022414,TO15,140-0000469-012
 Operator ID: 403648 Instrument ID: MG
 Method: \\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 09:48:48 Calib Date: 11-Feb-2014 18:08:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 09:48:48

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.619	9.624	-0.005	78	583929	4.00	
* 2 1,4-Difluorobenzene	114	11.749	11.749	0.0	94	2482270	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	86	1317442	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.977	17.977	0.0	94	535700	3.07	
48 Benzene	78	11.242	11.237	0.005	88	16316	0.0393	
73 Tetrachloroethene	129	15.545	15.551	-0.006	89	6189	0.0360	
112 Naphthalene	128	21.612	21.622	-0.010	73	4511	0.0394	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-9.D

Injection Date: 25-Feb-2014 00:02:30

Instrument ID: MG

Operator ID: 403648

Lims ID: 140-947-A-9

Lab Sample ID: 140-947-9

Worklist Smp#: 12

Client ID: 10993

Purge Vol: 500.000 mL

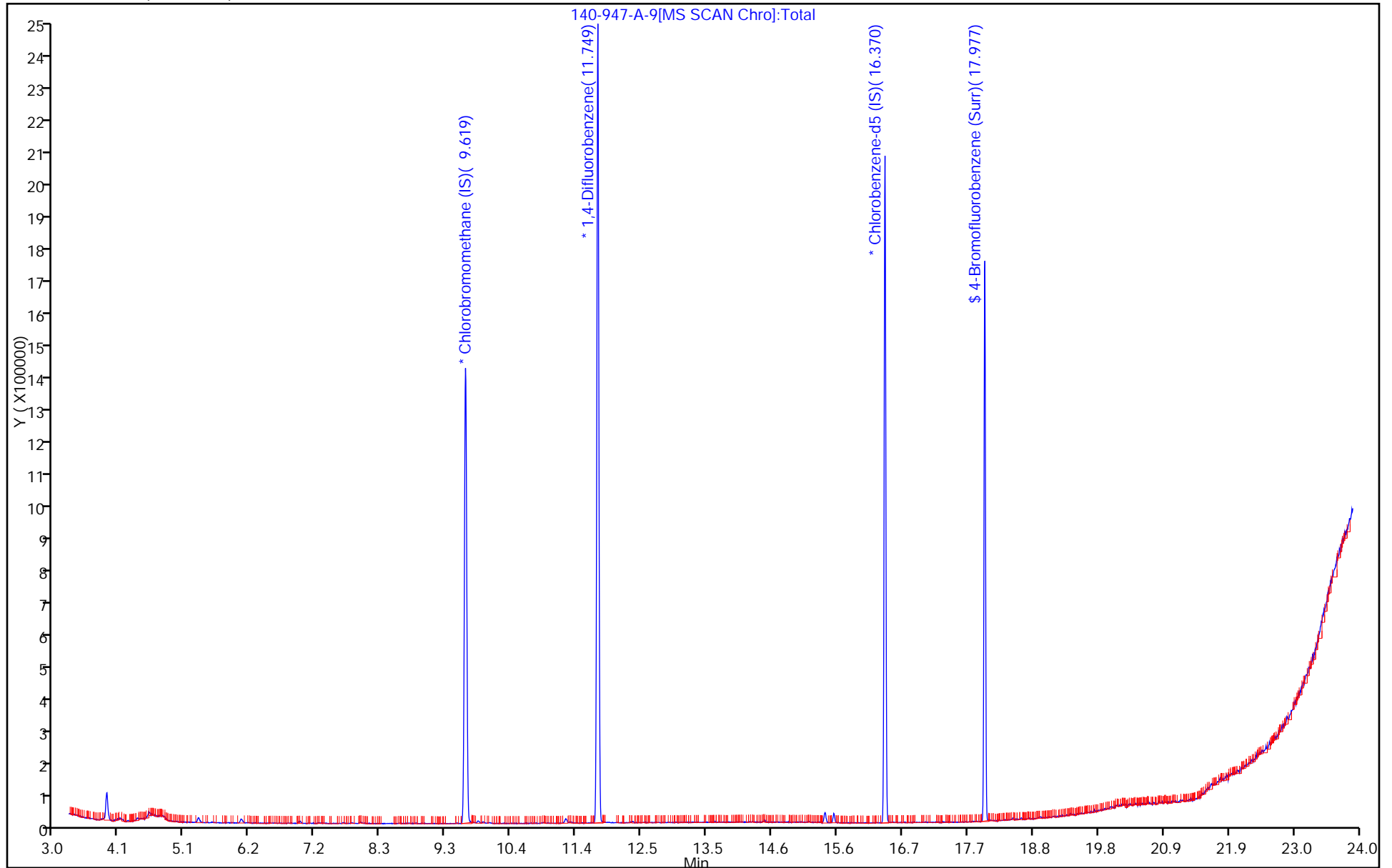
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10269 Lab Sample ID: 140-947-14
 Matrix: Air Lab File ID: 140-947-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	0.097		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10269 Lab Sample ID: 140-947-14
 Matrix: Air Lab File ID: 140-947-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10269 Lab Sample ID: 140-947-14
 Matrix: Air Lab File ID: 140-947-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 04:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-947-1
 SDG No.: _____
 Client Sample ID: 10269 Lab Sample ID: 140-947-14
 Matrix: Air Lab File ID: 140-947-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 04:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 884 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-14.D
 Lims ID: 140-947-A-14 Lab Sample ID: 140-947-14
 Client ID: 10269
 Sample Type: Client
 Inject. Date: 25-Feb-2014 04:36:30 ALS Bottle#: 14 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10269
 Misc. Info.: G022414,TO15,140-0000469-017
 Operator ID: 403648 Instrument ID: MG
 Method: \\KNXCHROM\ChromData\MG\20140223-469.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 09:52:42 Calib Date: 11-Feb-2014 18:08:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MG\20140211-434.b\GB11IC9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 09:52:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.614	9.624	-0.010	77	578061	4.00	
* 2 1,4-Difluorobenzene	114	11.744	11.749	-0.005	93	2464369	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.370	16.370	0.0	85	1303948	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.972	17.977	-0.005	94	529605	3.06	
43 Chloroform	83	9.614	9.630	-0.016	28	35471	0.0968	
62 4-Methyl-2-pentanone (MIBK)	43	13.609	13.599	0.010	94	18709	0.0767	
112 Naphthalene	128	21.579	21.622	-0.043	52	4609	0.0406	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-14.D

Injection Date: 25-Feb-2014 04:36:30

Instrument ID: MG

Operator ID: 403648

Lims ID: 140-947-A-14

Lab Sample ID: 140-947-14

Worklist Smp#: 17

Client ID: 10269

Purge Vol: 500.000 mL

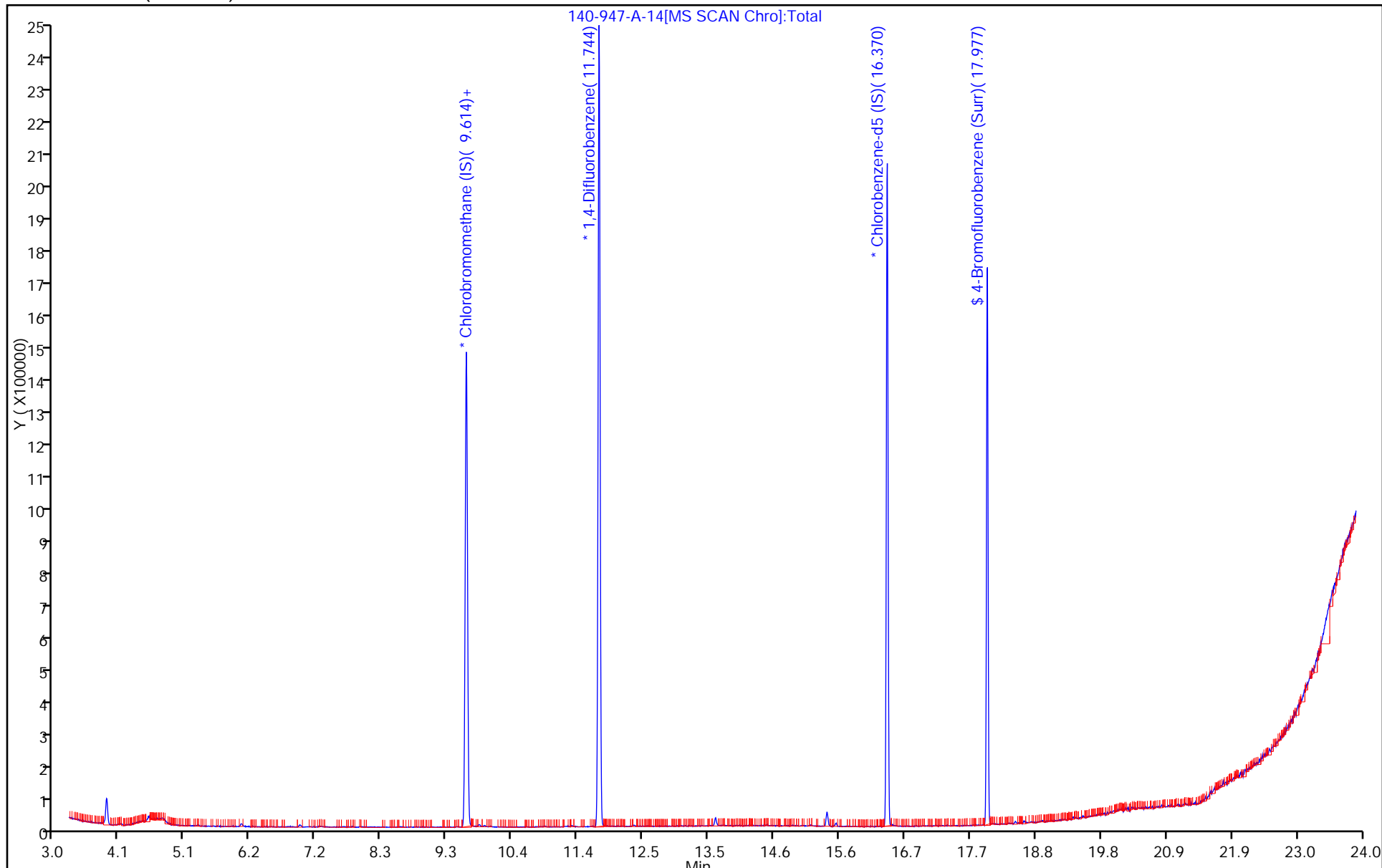
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MG\20140223-469.b\140-947-A-14.D

Injection Date: 25-Feb-2014 04:36:30

Instrument ID: MG

Lims ID: 140-947-A-14

Lab Sample ID: 140-947-14

Client ID: 10269

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

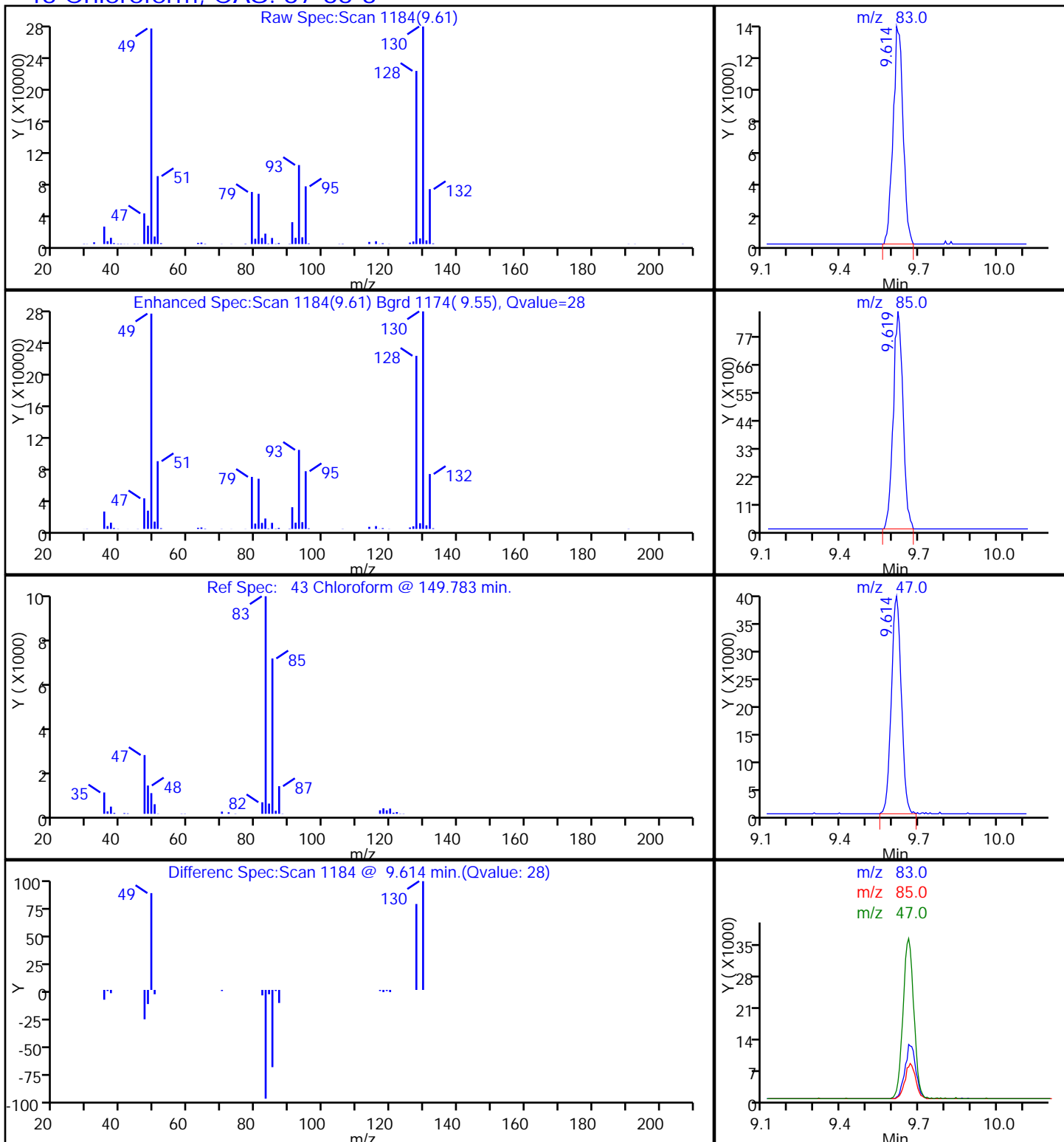
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-948-1
 SDG No.: _____
 Client Sample ID: 10327 Lab Sample ID: 140-948-1
 Matrix: Air Lab File ID: 140-948-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 10:45
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 23:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-948-1
 SDG No.: _____
 Client Sample ID: 10327 Lab Sample ID: 140-948-1
 Matrix: Air Lab File ID: 140-948-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 10:45
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 23:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-948-1
 SDG No.: _____
 Client Sample ID: 10327 Lab Sample ID: 140-948-1
 Matrix: Air Lab File ID: 140-948-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 10:45
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 23:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-948-1
 SDG No.: _____
 Client Sample ID: 10327 Lab Sample ID: 140-948-1
 Matrix: Air Lab File ID: 140-948-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 10:45
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 23:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-948-A-1.D
 Lims ID: 140-948-A-1 Lab Sample ID: 140-948-1
 Client ID: 10327
 Sample Type: Client
 Inject. Date: 25-Feb-2014 23:26:30 ALS Bottle#: 15 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10327
 Misc. Info.: E022514,TO155,,140-0000471-018
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 08:20:04 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:20:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	84	229662	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1122277	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	92	1000628	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	890958	4.07	
24 Isopropyl alcohol	45	4.969	4.970	-0.001	97	55052	0.6147	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	78	4674	0.0351	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-948-A-1.D

Injection Date: 25-Feb-2014 23:26:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-948-A-1

Lab Sample ID: 140-948-1

Worklist Smp#: 18

Client ID: 10327

Purge Vol: 500.000 mL

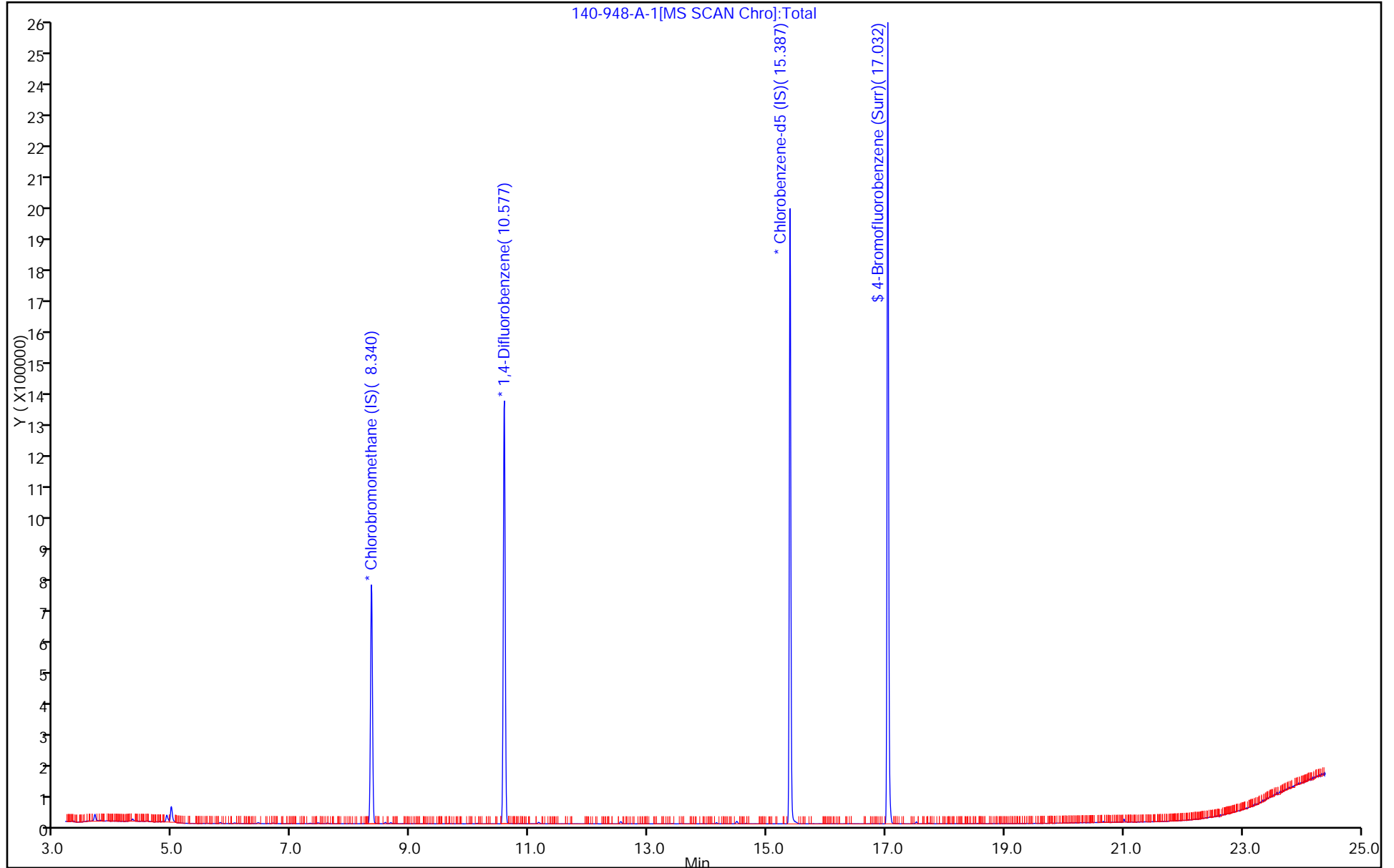
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10120 Lab Sample ID: 140-959-1
 Matrix: Air Lab File ID: 140-959-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 09:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10120 Lab Sample ID: 140-959-1
 Matrix: Air Lab File ID: 140-959-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 09:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10120 Lab Sample ID: 140-959-1
 Matrix: Air Lab File ID: 140-959-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 09:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10120 Lab Sample ID: 140-959-1
 Matrix: Air Lab File ID: 140-959-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/01/2014 09:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-1.D
 Lims ID: 140-959-A-1 Lab Sample ID: 140-959-1
 Client ID: 10120
 Sample Type: Client
 Inject. Date: 01-Mar-2014 09:16:30 ALS Bottle#: 5 Worklist Smp#: 27
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10120
 Misc. Info.: J022814,TO15,,140-0000480-027
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140226-480.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 03-Mar-2014 08:20:04 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: tajh

Date: 03-Mar-2014 08:19:39

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.401	-0.009	93	208834	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	980719	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	805864	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	632837	3.94	
62 4-Methyl-2-pentanone (MIBK)	43	13.389	13.382	0.007	84	15220	0.0914	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-1.D

Injection Date: 01-Mar-2014 09:16:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-1

Lab Sample ID: 140-959-1

Worklist Smp#: 27

Client ID: 10120

Purge Vol: 500.000 mL

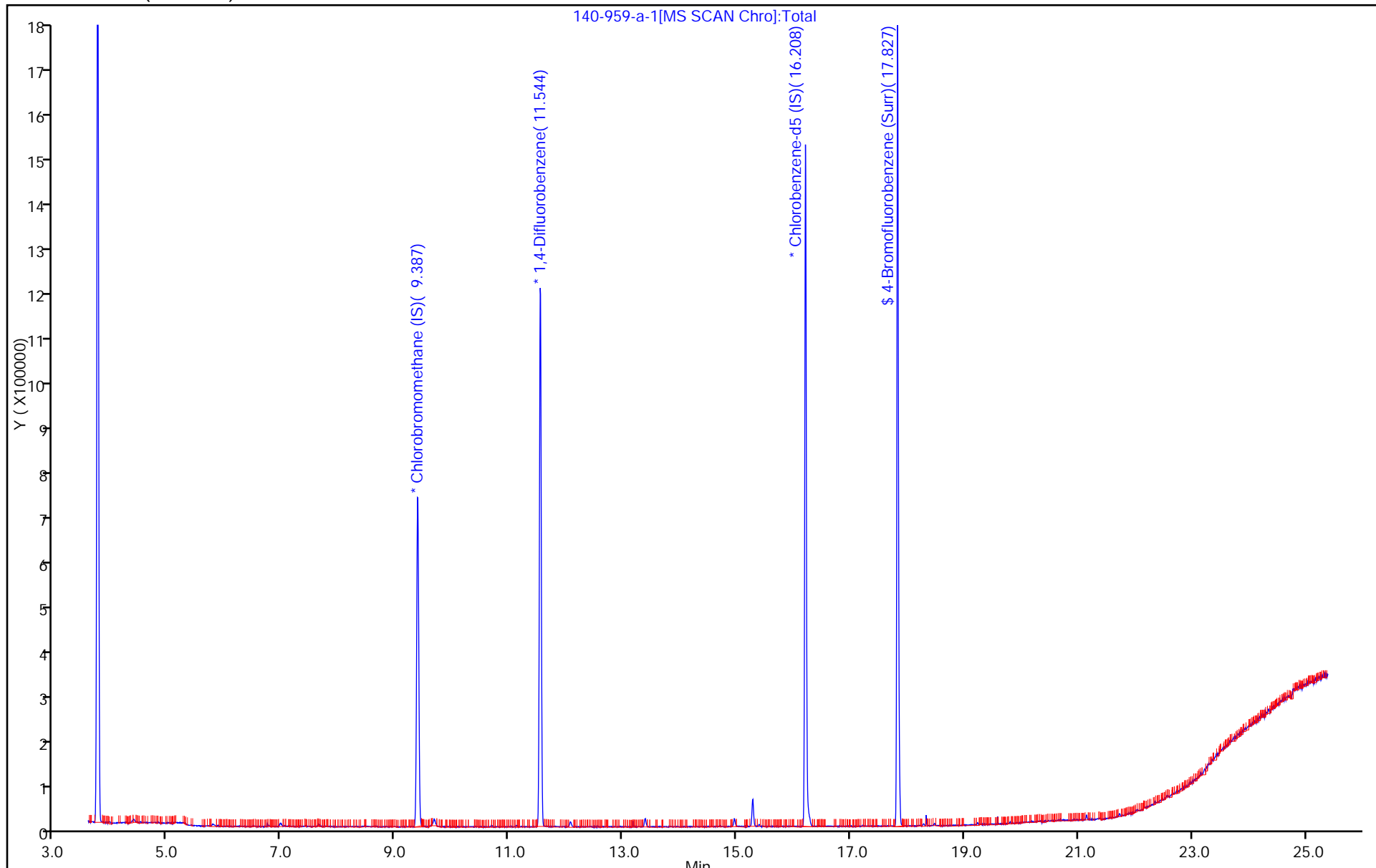
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09819 Lab Sample ID: 140-959-2
 Matrix: Air Lab File ID: 140-959-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 10:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09819 Lab Sample ID: 140-959-2
 Matrix: Air Lab File ID: 140-959-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 10:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09819 Lab Sample ID: 140-959-2
 Matrix: Air Lab File ID: 140-959-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/01/2014 10:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09819 Lab Sample ID: 140-959-2
 Matrix: Air Lab File ID: 140-959-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/01/2014 10:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 894 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-2.D
 Lims ID: 140-959-A-2 Lab Sample ID: 140-959-2
 Client ID: 09819
 Sample Type: Client
 Inject. Date: 01-Mar-2014 10:11:30 ALS Bottle#: 6 Worklist Smp#: 28
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09819
 Misc. Info.: J022814,TO15,,140-0000480-028
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140226-480.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 03-Mar-2014 08:20:04 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: tajh

Date: 03-Mar-2014 08:20:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.401	-0.009	93	208112	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.553	-0.009	94	956583	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	790948	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	614966	3.90	
28 2-Methyl-2-propanol	59	6.509	6.480	0.029	57	3328	0.0266	
62 4-Methyl-2-pentanone (MIBK)	43	13.389	13.382	0.007	88	24740	0.1523	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140226-480.b\140-959-a-2.D

Injection Date: 01-Mar-2014 10:11:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-2

Lab Sample ID: 140-959-2

Worklist Smp#: 28

Client ID: 09819

Purge Vol: 500.000 mL

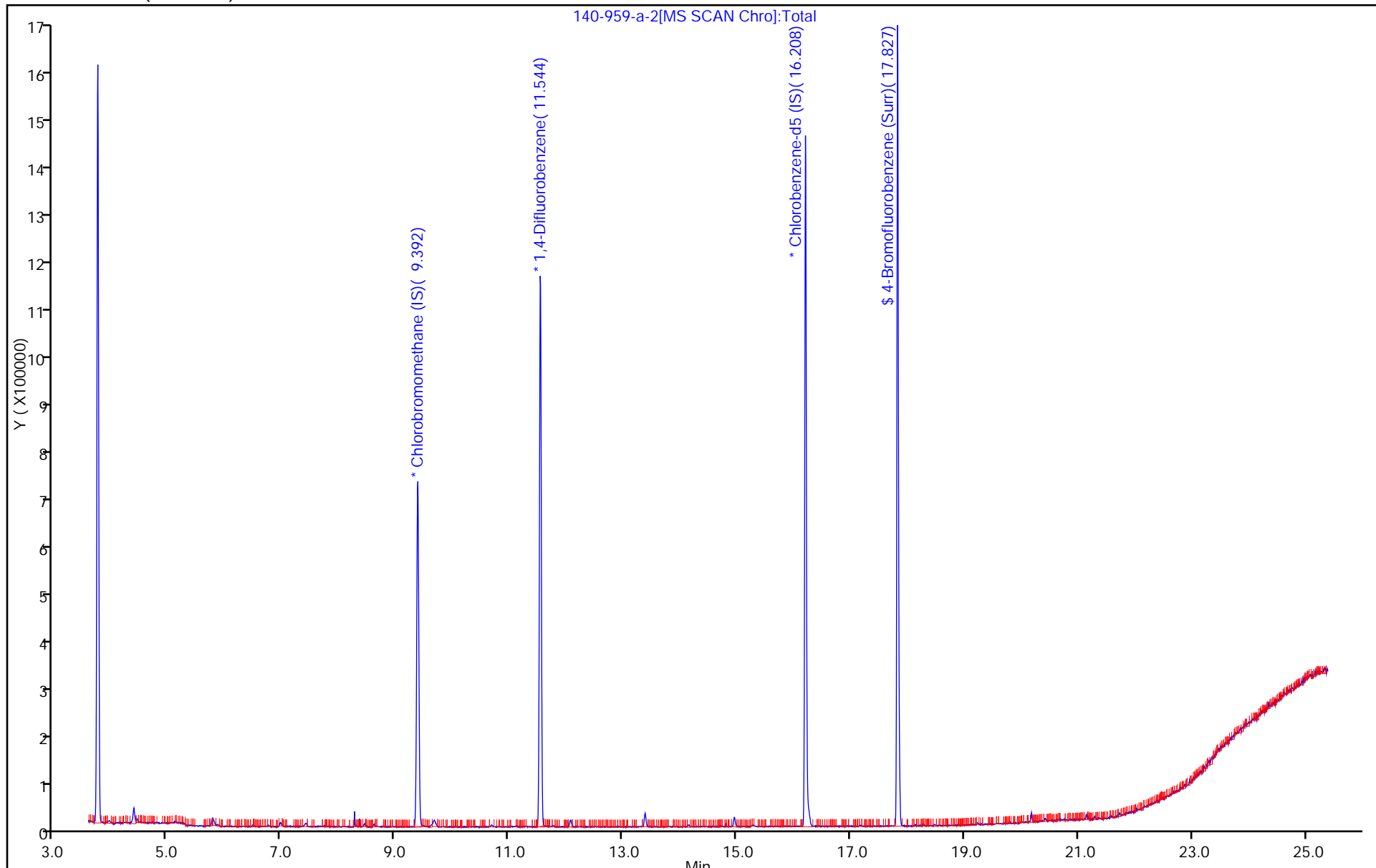
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10185 Lab Sample ID: 140-959-3
 Matrix: Air Lab File ID: 140-959-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 10:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10185 Lab Sample ID: 140-959-3
 Matrix: Air Lab File ID: 140-959-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 10:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10185 Lab Sample ID: 140-959-3
 Matrix: Air Lab File ID: 140-959-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 10:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10185 Lab Sample ID: 140-959-3
 Matrix: Air Lab File ID: 140-959-a-3.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 10:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-3.D
 Lims ID: 140-959-A-3 Lab Sample ID: 140-959-3
 Client ID: 10185
 Sample Type: Client
 Inject. Date: 03-Mar-2014 10:34:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10185
 Misc. Info.: J030314,TO15,,140-0000490-004
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 06:48:30 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 08:51:26

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	94	199842	4.00	
* 2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	930867	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.212	0.002	93	759559	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	83	596717	3.94	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-3.D

Injection Date: 03-Mar-2014 10:34:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-959-A-3

Lab Sample ID: 140-959-3

Worklist Smp#: 4

Client ID: 10185

Purge Vol: 500.000 mL

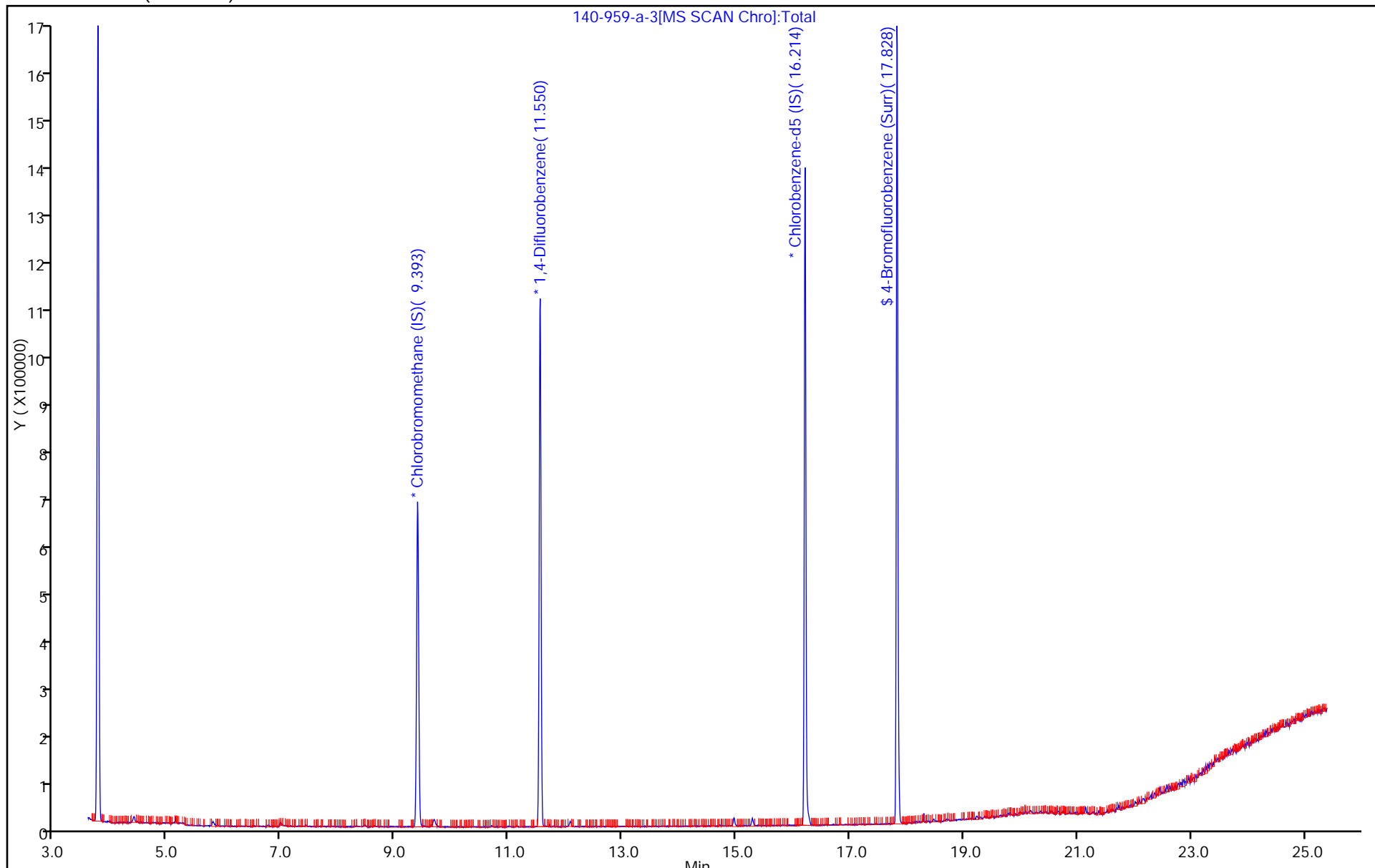
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10848 Lab Sample ID: 140-959-4
 Matrix: Air Lab File ID: 140-959-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 11:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10848 Lab Sample ID: 140-959-4
 Matrix: Air Lab File ID: 140-959-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 11:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10848 Lab Sample ID: 140-959-4
 Matrix: Air Lab File ID: 140-959-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 11:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10848 Lab Sample ID: 140-959-4
 Matrix: Air Lab File ID: 140-959-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 11:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-4.D
 Lims ID: 140-959-A-4 Lab Sample ID: 140-959-4
 Client ID: 10848
 Sample Type: Client
 Inject. Date: 03-Mar-2014 11:29:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10848
 Misc. Info.: J030314,TO15,,140-0000490-004
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa

Date: 03-Mar-2014 12:37:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.400	9.402	-0.002	93	198839	4.00	
* 2 1,4-Difluorobenzene	114	11.552	11.553	-0.001	94	939904	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.211	16.212	-0.001	93	784853	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.830	17.831	-0.001	83	609598	3.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.397	13.383	0.015	47	4665	0.0292	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-4.D

Injection Date: 03-Mar-2014 11:29:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-959-A-4

Lab Sample ID: 140-959-4

Worklist Smp#: 5

Client ID: 10848

Purge Vol: 500.000 mL

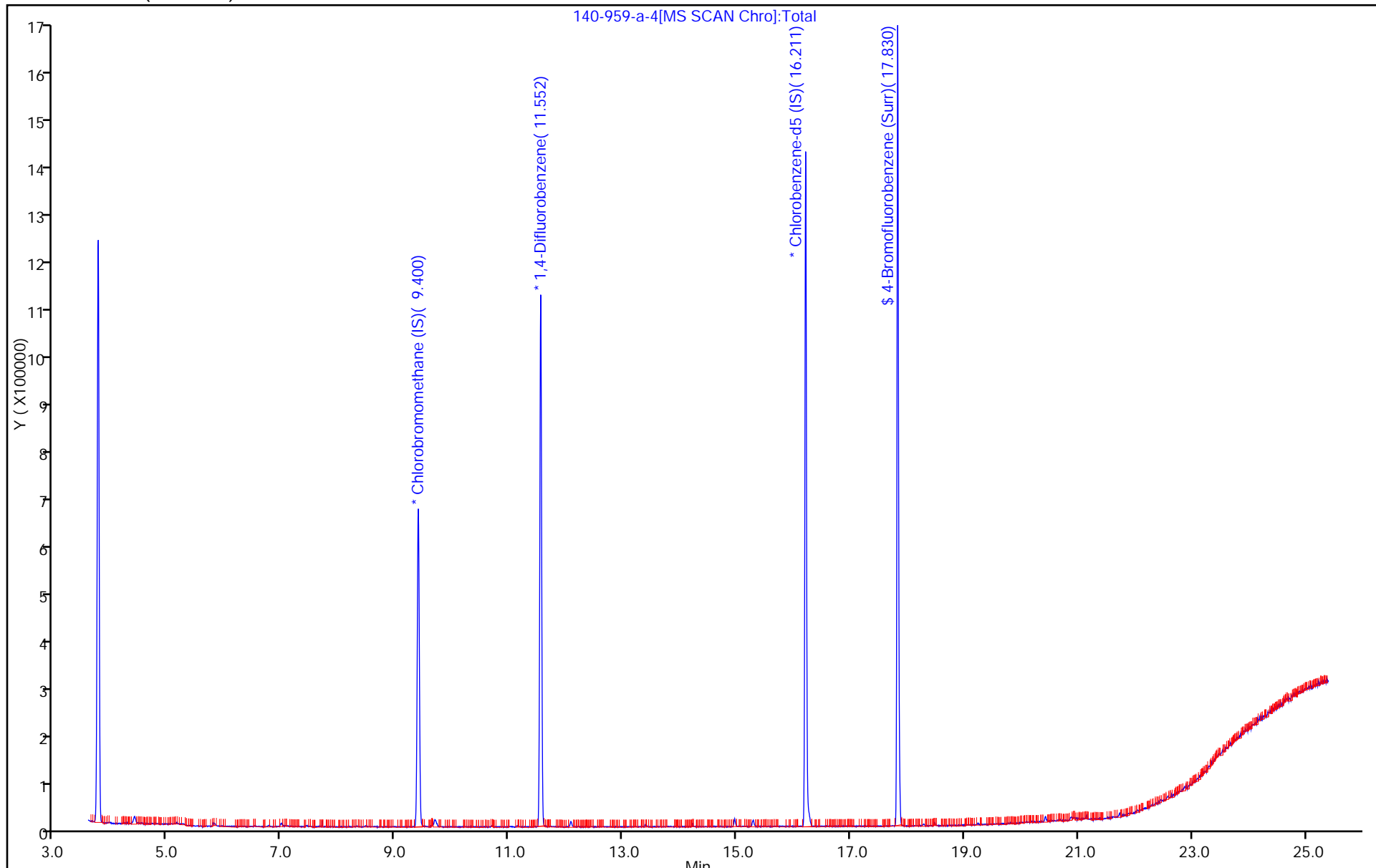
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10778 Lab Sample ID: 140-959-6
 Matrix: Air Lab File ID: 140-959-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10778 Lab Sample ID: 140-959-6
 Matrix: Air Lab File ID: 140-959-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10778 Lab Sample ID: 140-959-6
 Matrix: Air Lab File ID: 140-959-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10778 Lab Sample ID: 140-959-6
 Matrix: Air Lab File ID: 140-959-a-6.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-6.D
 Lims ID: 140-959-A-6 Lab Sample ID: 140-959-6
 Client ID: 10778
 Sample Type: Client
 Inject. Date: 03-Mar-2014 13:52:30 ALS Bottle#: 1 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10778
 Misc. Info.: J030314,TO15,,140-0000490-007
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa

Date: 03-Mar-2014 17:09:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.402	-0.015	93	189725	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.553	-0.009	94	897457	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	711149	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	82	533899	3.76	
13 Butane	43	4.519	4.523	-0.004	74	3725	0.0345	
24 Isopropyl alcohol	45	5.858	5.857	0.001	49	5617	0.0511	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.383	0.002	83	15930	0.1045	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-6.D

Injection Date: 03-Mar-2014 13:52:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-6

Lab Sample ID: 140-959-6

Worklist Smp#: 7

Client ID: 10778

Purge Vol: 500.000 mL

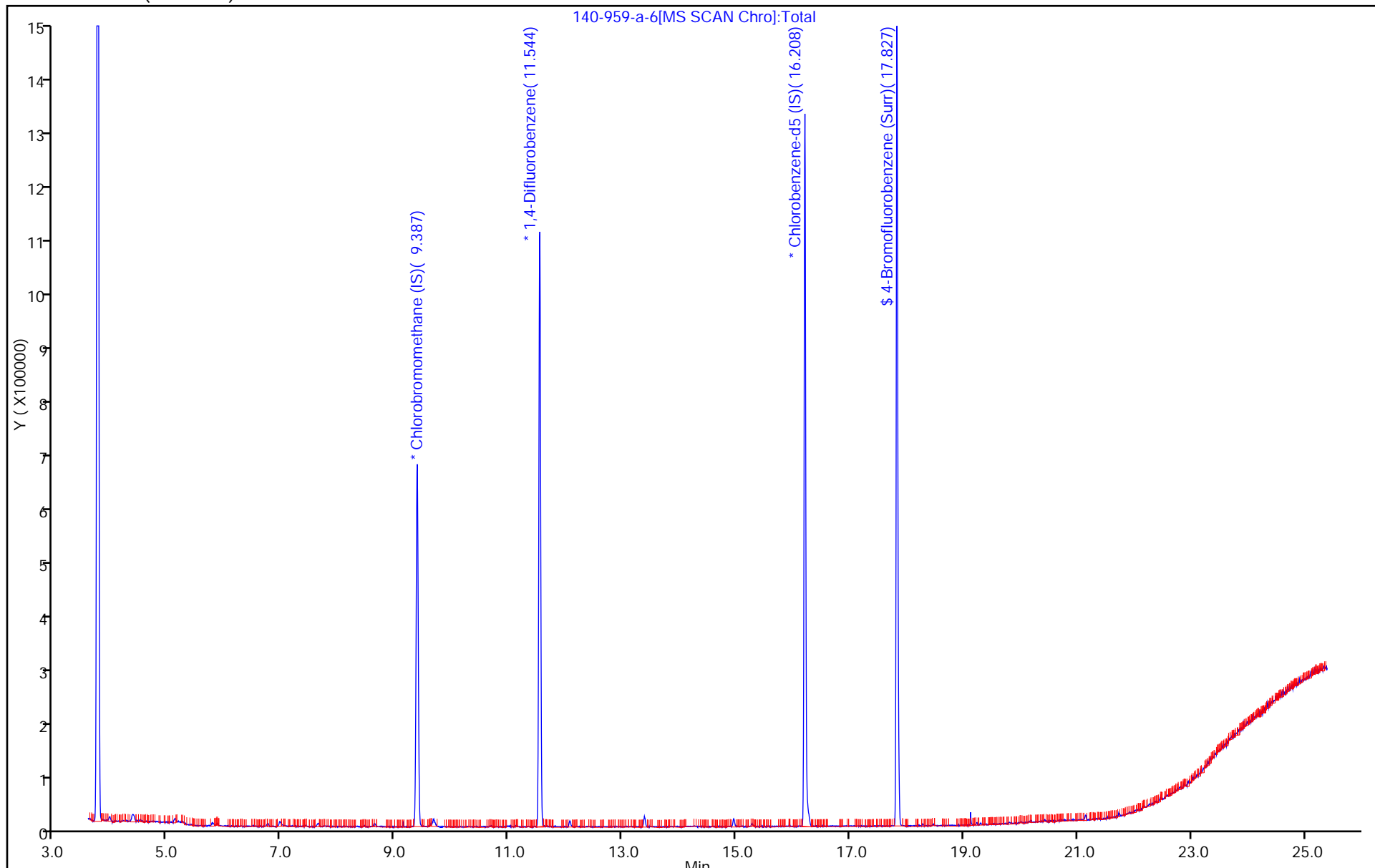
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10315 Lab Sample ID: 140-959-7
 Matrix: Air Lab File ID: 140-959-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10315 Lab Sample ID: 140-959-7
 Matrix: Air Lab File ID: 140-959-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10315 Lab Sample ID: 140-959-7
 Matrix: Air Lab File ID: 140-959-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10315 Lab Sample ID: 140-959-7
 Matrix: Air Lab File ID: 140-959-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-7.D
 Lims ID: 140-959-A-7 Lab Sample ID: 140-959-7
 Client ID: 10315
 Sample Type: Client
 Inject. Date: 03-Mar-2014 14:47:30 ALS Bottle#: 2 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10315
 Misc. Info.: J030314,TO15,,140-0000490-008
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa Date: 03-Mar-2014 17:10:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	92	188834	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	900379	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	94	757972	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	597016	3.95	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.383	0.002	85	24559	0.1606	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-7.D

Injection Date: 03-Mar-2014 14:47:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-7

Lab Sample ID: 140-959-7

Worklist Smp#: 8

Client ID: 10315

Purge Vol: 500.000 mL

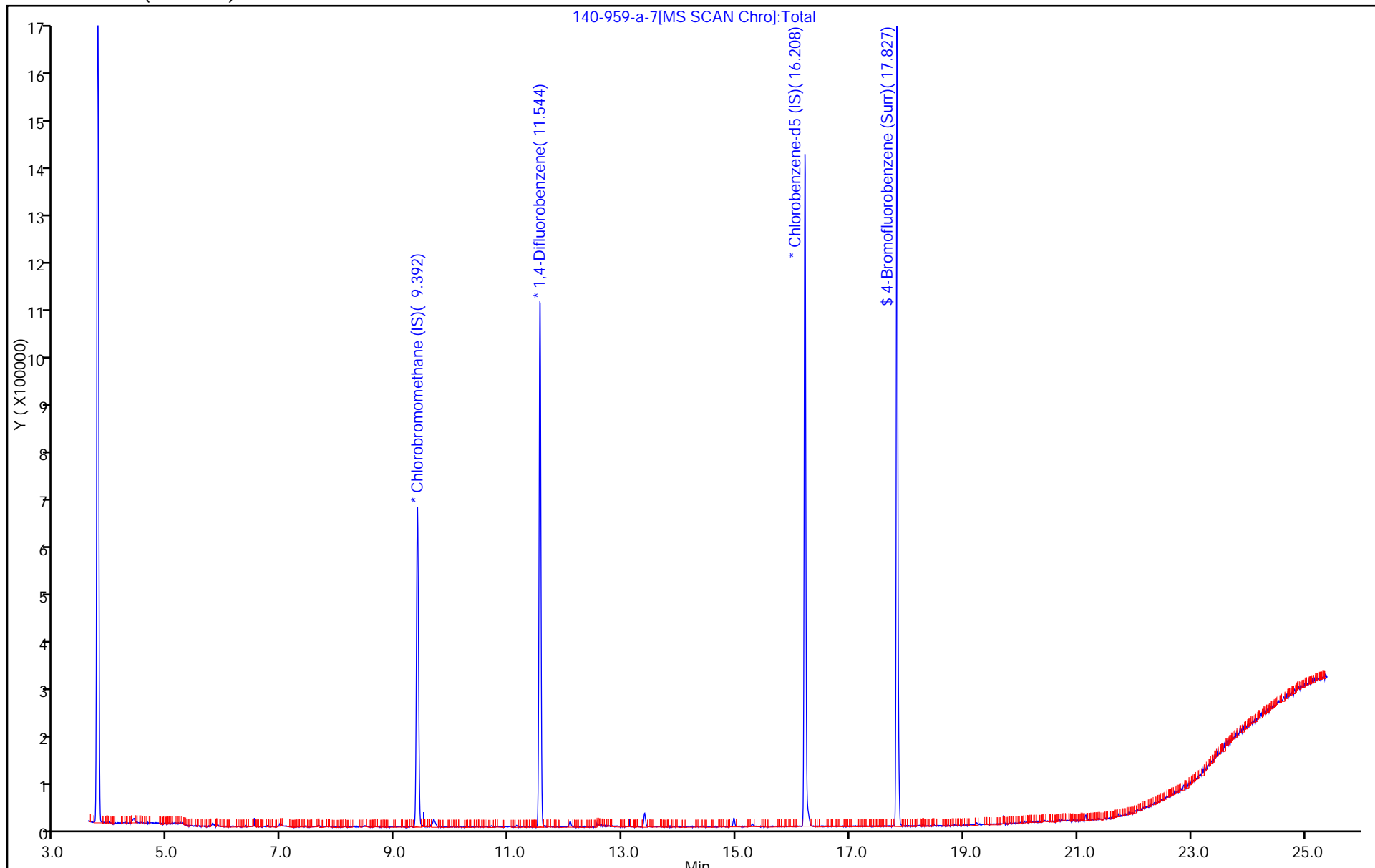
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09629 Lab Sample ID: 140-959-8
 Matrix: Air Lab File ID: 140-959-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:41
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.20		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09629 Lab Sample ID: 140-959-8
 Matrix: Air Lab File ID: 140-959-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:41
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09629 Lab Sample ID: 140-959-8
 Matrix: Air Lab File ID: 140-959-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 15:41
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09629 Lab Sample ID: 140-959-8
 Matrix: Air Lab File ID: 140-959-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 15:41
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D
 Lims ID: 140-959-A-8 Lab Sample ID: 140-959-8
 Client ID: 09629
 Sample Type: Client
 Inject. Date: 03-Mar-2014 15:41:30 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09629
 Misc. Info.: J030314,TO15,,140-0000490-009
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:26:49 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: barlozhetskayaa

Date: 03-Mar-2014 17:12:13

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.389	9.402	-0.013	92	191903	4.00	
* 2 1,4-Difluorobenzene	114	11.546	11.553	-0.007	94	877030	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.210	16.212	-0.002	94	696616	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.830	17.831	-0.001	85	540341	3.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.392	13.383	0.010	87	29040	0.1950	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D

Injection Date: 03-Mar-2014 15:41:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-8

Lab Sample ID: 140-959-8

Worklist Smp#: 9

Client ID: 09629

Purge Vol: 500.000 mL

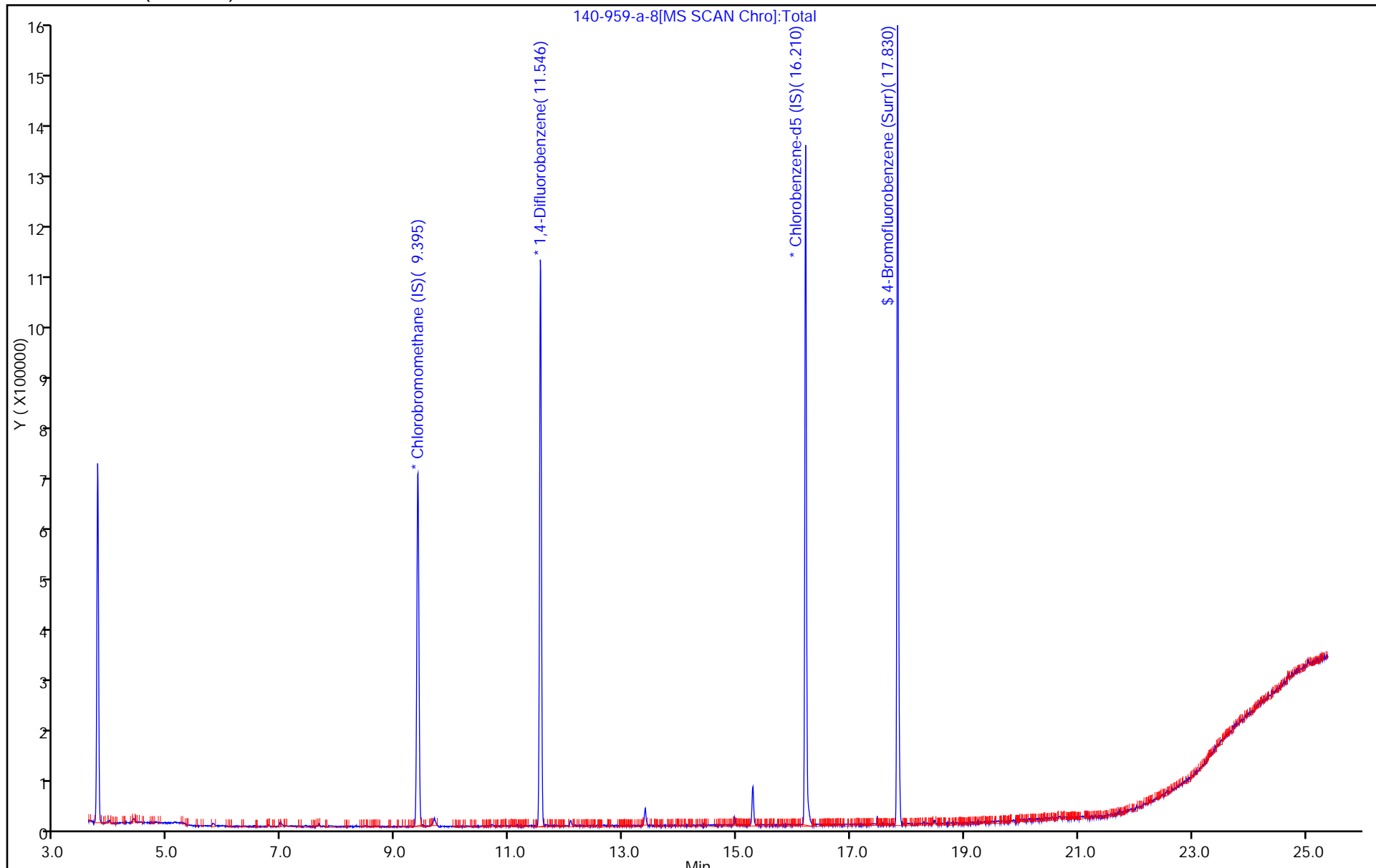
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-8.D

Injection Date: 03-Mar-2014 15:41:30

Instrument ID: MJ

Lims ID: 140-959-A-8

Lab Sample ID: 140-959-8

Client ID: 09629

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

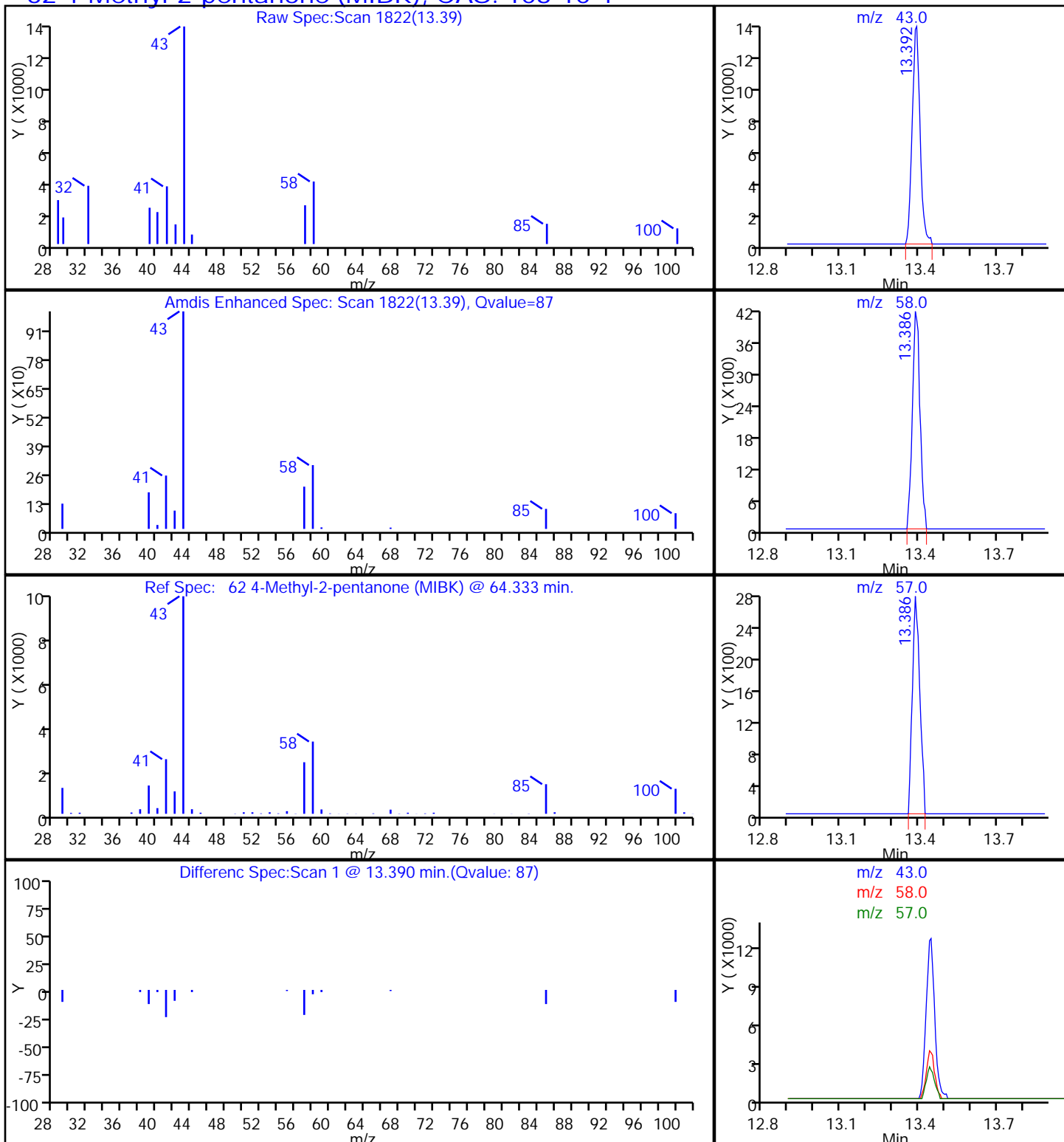
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10719 Lab Sample ID: 140-959-10
 Matrix: Air Lab File ID: 140-959-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10719 Lab Sample ID: 140-959-10
 Matrix: Air Lab File ID: 140-959-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10719 Lab Sample ID: 140-959-10
 Matrix: Air Lab File ID: 140-959-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10719 Lab Sample ID: 140-959-10
 Matrix: Air Lab File ID: 140-959-a-10.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 17:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-10.D
 Lims ID: 140-959-A-10 Lab Sample ID: 140-959-10
 Client ID: 10719
 Sample Type: Client
 Inject. Date: 03-Mar-2014 17:30:30 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10719
 Misc. Info.: J030314,TO15,,140-0000490-011
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:31:51 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh

Date: 04-Mar-2014 07:31:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	93	181700	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	836306	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	686661	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	537047	3.92	
33 Carbon disulfide	76	6.945	6.949	-0.004	88	8852	0.0450	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-10.D

Injection Date: 03-Mar-2014 17:30:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-10

Lab Sample ID: 140-959-10

Worklist Smp#: 11

Client ID: 10719

Purge Vol: 500.000 mL

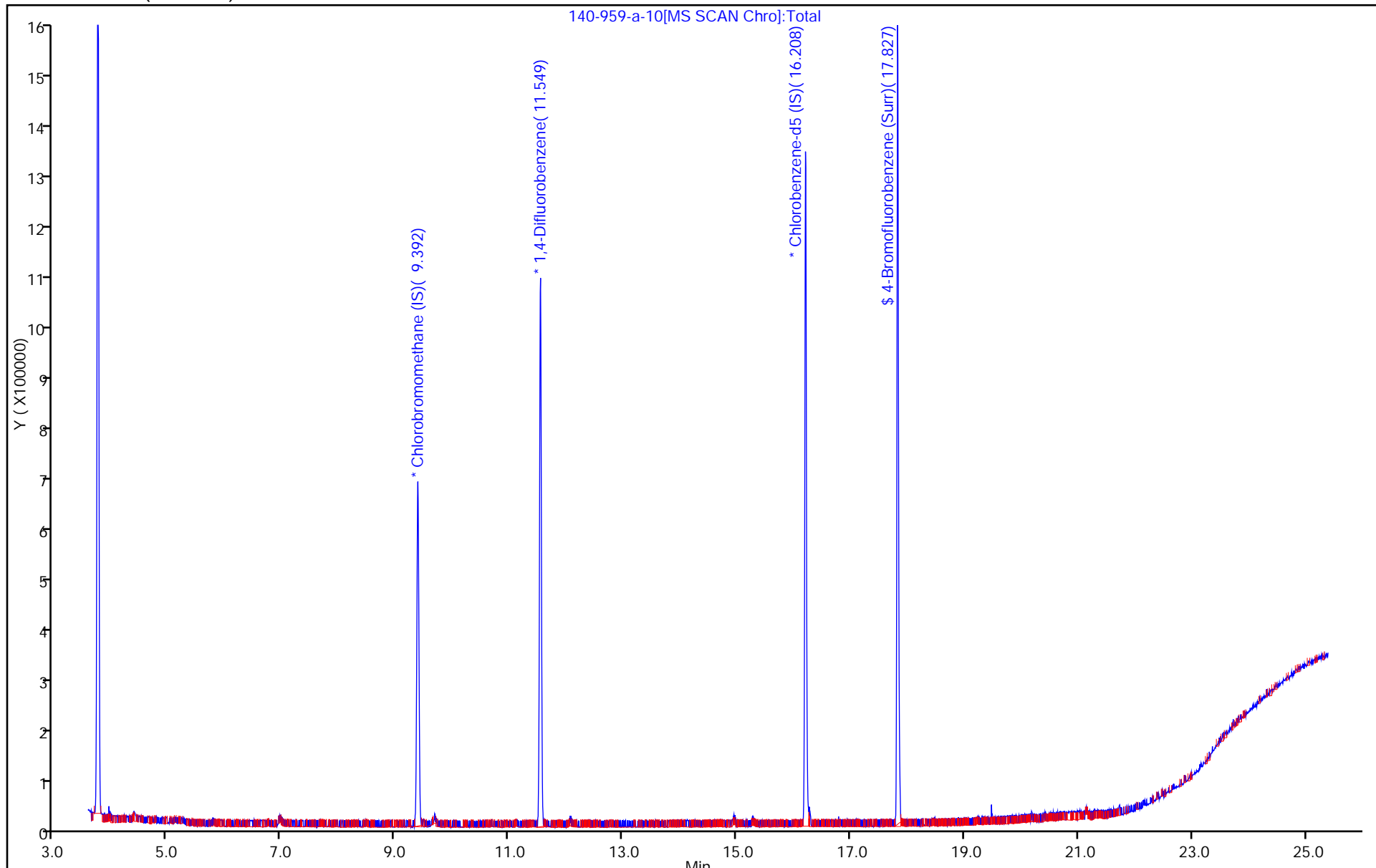
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09534 Lab Sample ID: 140-959-11
 Matrix: Air Lab File ID: 140-959-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 18:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09534 Lab Sample ID: 140-959-11
 Matrix: Air Lab File ID: 140-959-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 18:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09534 Lab Sample ID: 140-959-11
 Matrix: Air Lab File ID: 140-959-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 18:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09534 Lab Sample ID: 140-959-11
 Matrix: Air Lab File ID: 140-959-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 18:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-11.D
 Lims ID: 140-959-A-11 Lab Sample ID: 140-959-11
 Client ID: 09534
 Sample Type: Client
 Inject. Date: 03-Mar-2014 18:24:30 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09534
 Misc. Info.: J030314,TO15,,140-0000490-012
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:32:19 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:32:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.402	-0.010	93	188607	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.553	-0.004	94	858612	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.212	-0.004	95	710639	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.831	-0.004	81	547894	3.86	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-11.D

Injection Date: 03-Mar-2014 18:24:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-11

Lab Sample ID: 140-959-11

Worklist Smp#: 12

Client ID: 09534

Purge Vol: 500.000 mL

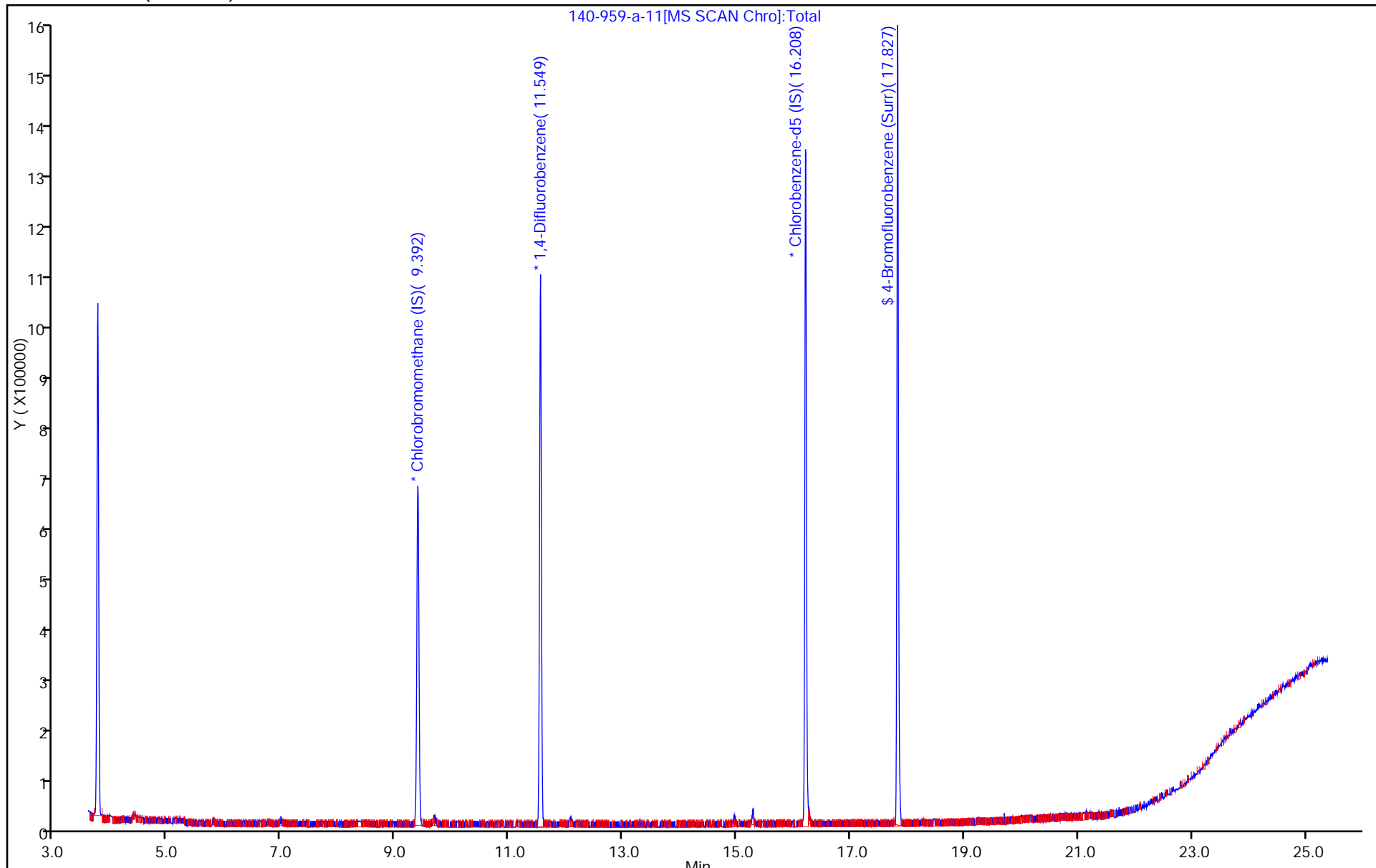
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 11043 Lab Sample ID: 140-959-12
 Matrix: Air Lab File ID: 140-959-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 11043 Lab Sample ID: 140-959-12
 Matrix: Air Lab File ID: 140-959-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 11043 Lab Sample ID: 140-959-12
 Matrix: Air Lab File ID: 140-959-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 11043 Lab Sample ID: 140-959-12
 Matrix: Air Lab File ID: 140-959-a-12.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-12.D
 Lims ID: 140-959-A-12 Lab Sample ID: 140-959-12
 Client ID: 11043
 Sample Type: Client
 Inject. Date: 03-Mar-2014 19:19:30 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 11043
 Misc. Info.: J030314,TO15,,140-0000490-013
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:33:37 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:33:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.402	-0.008	93	187675	4.00	
* 2 1,4-Difluorobenzene	114	11.546	11.553	-0.007	94	882439	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.210	16.212	-0.002	94	745022	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.829	17.831	-0.002	82	571868	3.85	
13 Butane	43	4.525	4.523	0.002	64	3215	0.0301	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-12.D

Injection Date: 03-Mar-2014 19:19:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-12

Lab Sample ID: 140-959-12

Worklist Smp#: 13

Client ID: 11043

Purge Vol: 500.000 mL

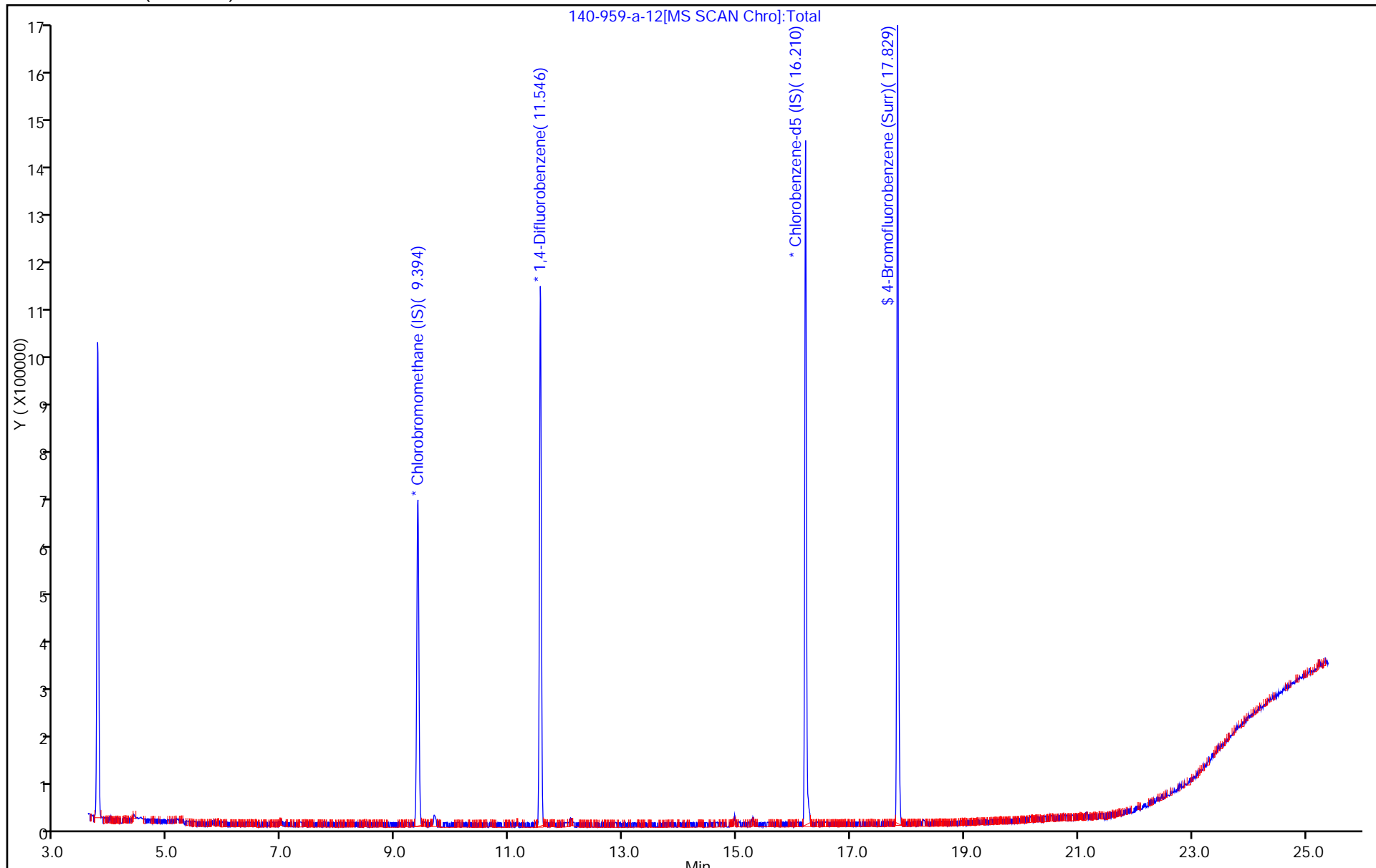
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10515 Lab Sample ID: 140-959-13
 Matrix: Air Lab File ID: 140-959-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 20:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10515 Lab Sample ID: 140-959-13
 Matrix: Air Lab File ID: 140-959-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 20:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10515 Lab Sample ID: 140-959-13
 Matrix: Air Lab File ID: 140-959-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 20:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 10515 Lab Sample ID: 140-959-13
 Matrix: Air Lab File ID: 140-959-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 20:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-13.D
 Lims ID: 140-959-A-13 Lab Sample ID: 140-959-13
 Client ID: 10515
 Sample Type: Client
 Inject. Date: 03-Mar-2014 20:13:30 ALS Bottle#: 8 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10515
 Misc. Info.: J030314,TO15,,140-0000490-014
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:34:00 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:33:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	94	185379	4.00	
* 2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	879359	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	94	742147	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	84	576579	3.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	46	4587	0.0307	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-13.D

Injection Date: 03-Mar-2014 20:13:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-13

Lab Sample ID: 140-959-13

Worklist Smp#: 14

Client ID: 10515

Purge Vol: 500.000 mL

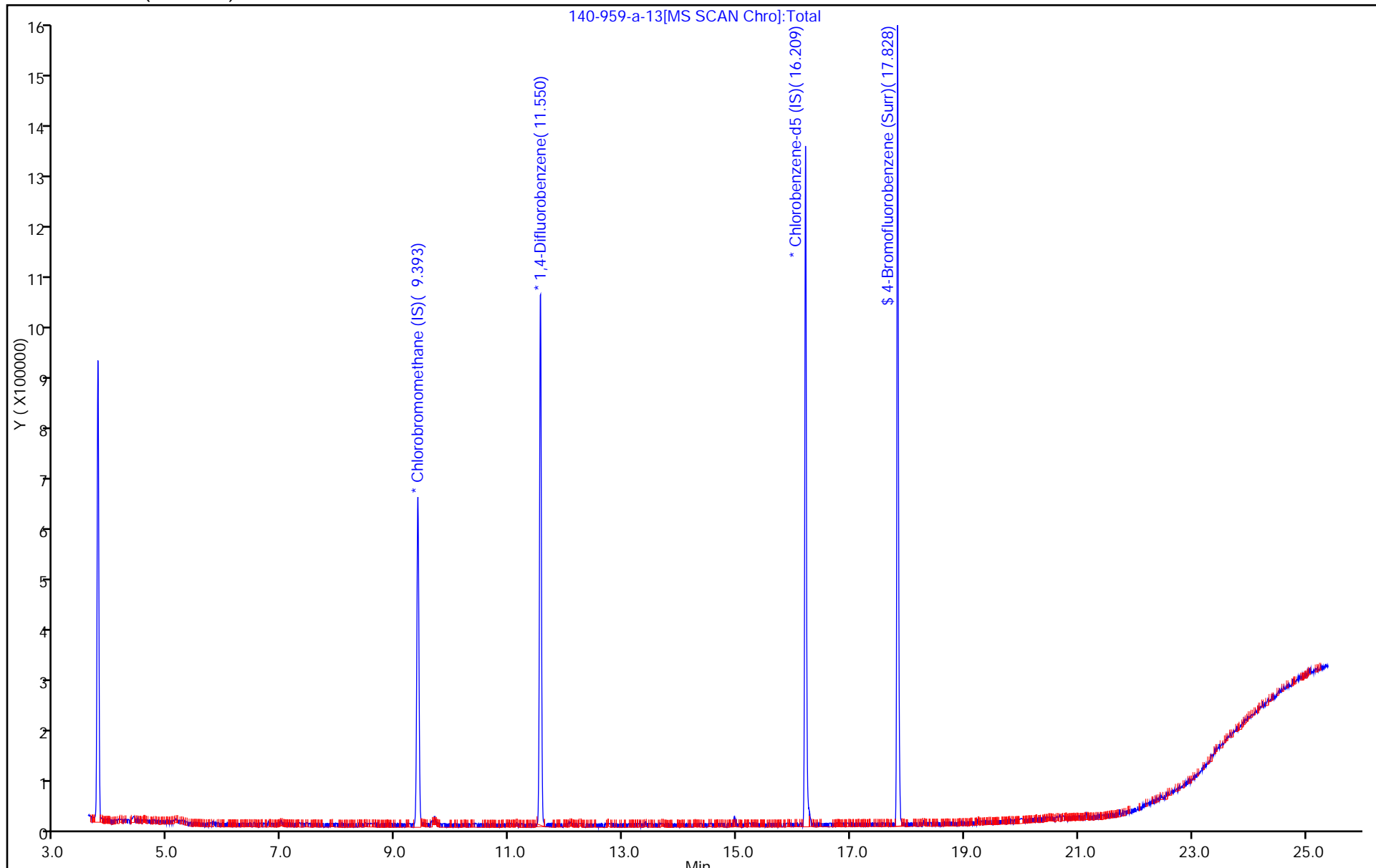
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09696 Lab Sample ID: 140-959-14
 Matrix: Air Lab File ID: 140-959-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 21:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09696 Lab Sample ID: 140-959-14
 Matrix: Air Lab File ID: 140-959-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 21:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09696 Lab Sample ID: 140-959-14
 Matrix: Air Lab File ID: 140-959-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 21:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09696 Lab Sample ID: 140-959-14
 Matrix: Air Lab File ID: 140-959-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 21:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-14.D
 Lims ID: 140-959-A-14 Lab Sample ID: 140-959-14
 Client ID: 09696
 Sample Type: Client
 Inject. Date: 03-Mar-2014 21:08:30 ALS Bottle#: 9 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09696
 Misc. Info.: J030314,TO15,,140-0000490-015
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:34:23 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 07:34:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	93	184985	4.00	
* 2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	875475	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	94	724675	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	81	566372	3.92	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	85	10358	0.0697	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-14.D

Injection Date: 03-Mar-2014 21:08:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-14

Lab Sample ID: 140-959-14

Worklist Smp#: 15

Client ID: 09696

Purge Vol: 500.000 mL

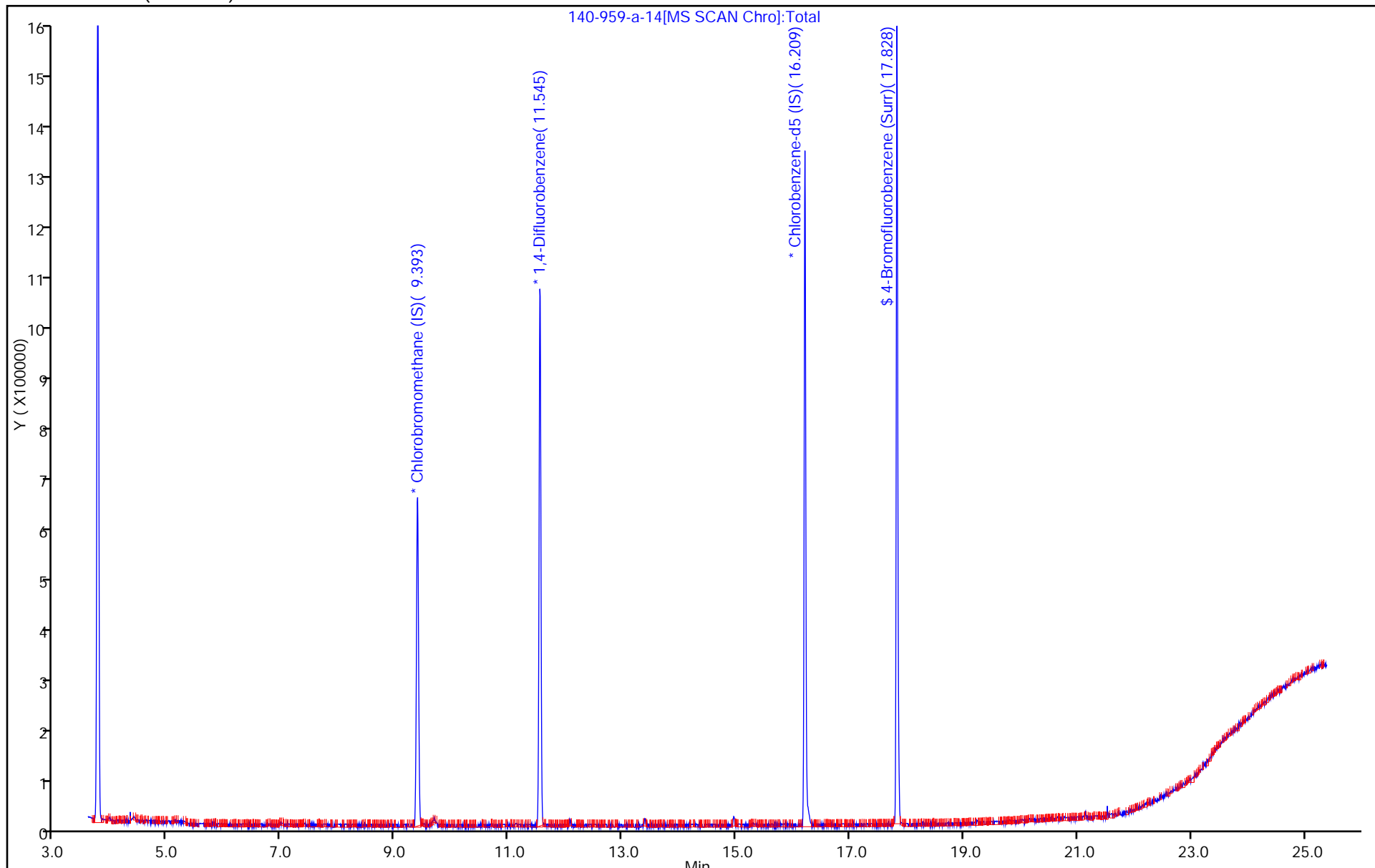
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09918 Lab Sample ID: 140-959-16
 Matrix: Air Lab File ID: 140-959-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 22:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09918 Lab Sample ID: 140-959-16
 Matrix: Air Lab File ID: 140-959-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/03/2014 22:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09918 Lab Sample ID: 140-959-16
 Matrix: Air Lab File ID: 140-959-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 22:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-959-1
 SDG No.: _____
 Client Sample ID: 09918 Lab Sample ID: 140-959-16
 Matrix: Air Lab File ID: 140-959-a-16.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/03/2014 22:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 907 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-16.D
 Lims ID: 140-959-A-16 Lab Sample ID: 140-959-16
 Client ID: 09918
 Sample Type: Client
 Inject. Date: 03-Mar-2014 22:57:30 ALS Bottle#: 11 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09918
 Misc. Info.: J030314,TO15,,140-0000490-017
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140228-490.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 07:35:17 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh

Date: 04-Mar-2014 07:35:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.402	-0.009	93	183786	4.00	
* 2 1,4-Difluorobenzene	114	11.550	11.553	-0.003	94	809290	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.212	-0.003	95	652574	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.831	-0.003	81	518506	3.98	
9 Chloromethane	52	4.234	4.232	0.002	42	2105	0.0888	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.383	0.008	81	16416	0.1195	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140228-490.b\140-959-a-16.D

Injection Date: 03-Mar-2014 22:57:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-959-A-16

Lab Sample ID: 140-959-16

Worklist Smp#: 17

Client ID: 09918

Purge Vol: 500.000 mL

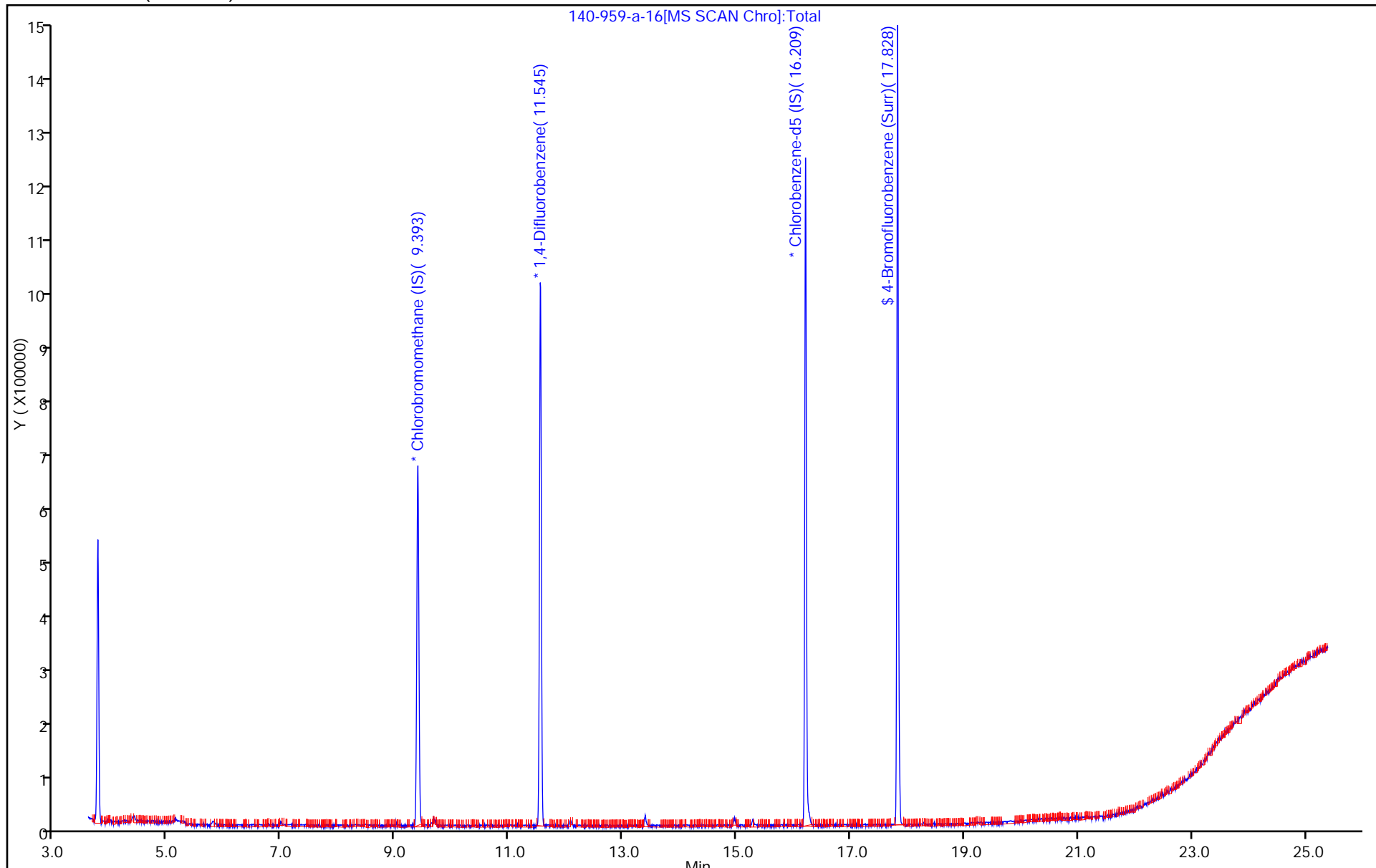
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-987-1
 SDG No.: _____
 Client Sample ID: 10276 Lab Sample ID: 140-987-4
 Matrix: Air Lab File ID: 140-987-a-4.D
 Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:35
 Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-987-1
 SDG No.: _____
 Client Sample ID: 10276 Lab Sample ID: 140-987-4
 Matrix: Air Lab File ID: 140-987-a-4.D
 Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:35
 Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-987-1
 SDG No.: _____
 Client Sample ID: 10276 Lab Sample ID: 140-987-4
 Matrix: Air Lab File ID: 140-987-a-4.D
 Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:35
 Sample wt/vol: 500(mL) Date Analyzed: 03/04/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-987-1
 SDG No.: _____
 Client Sample ID: 10276 Lab Sample ID: 140-987-4
 Matrix: Air Lab File ID: 140-987-a-4.D
 Analysis Method: TO 15 LL Date Collected: 03/03/2014 14:35
 Sample wt/vol: 500 (mL) Date Analyzed: 03/04/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 905 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-987-a-4.D
 Lims ID: 140-987-A-4 Lab Sample ID: 140-987-4
 Client ID: 10276
 Sample Type: Client
 Inject. Date: 04-Mar-2014 09:03:30 ALS Bottle#: 12 Worklist Smp#: 27
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10276
 Misc. Info.: E030314,TO155,,140-0000488-026
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140228-488.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Mar-2014 10:19:53 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: tajh Date: 04-Mar-2014 10:19:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.351	-0.011	78	121724	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	613587	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.382	15.388	-0.006	90	538375	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	91	448355	3.80	
14 Butane	43	3.778	3.778	0.0	65	1799	0.0309	
19 2-Methylbutane	43	4.538	4.544	-0.006	33	1143	0.0268	
44 Tetrahydrofuran	42	8.782	8.755	0.027	74	2286	0.0732	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140228-488.b\140-987-a-4.D

Injection Date: 04-Mar-2014 09:03:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-987-A-4

Lab Sample ID: 140-987-4

Worklist Smp#: 27

Client ID: 10276

Purge Vol: 500.000 mL

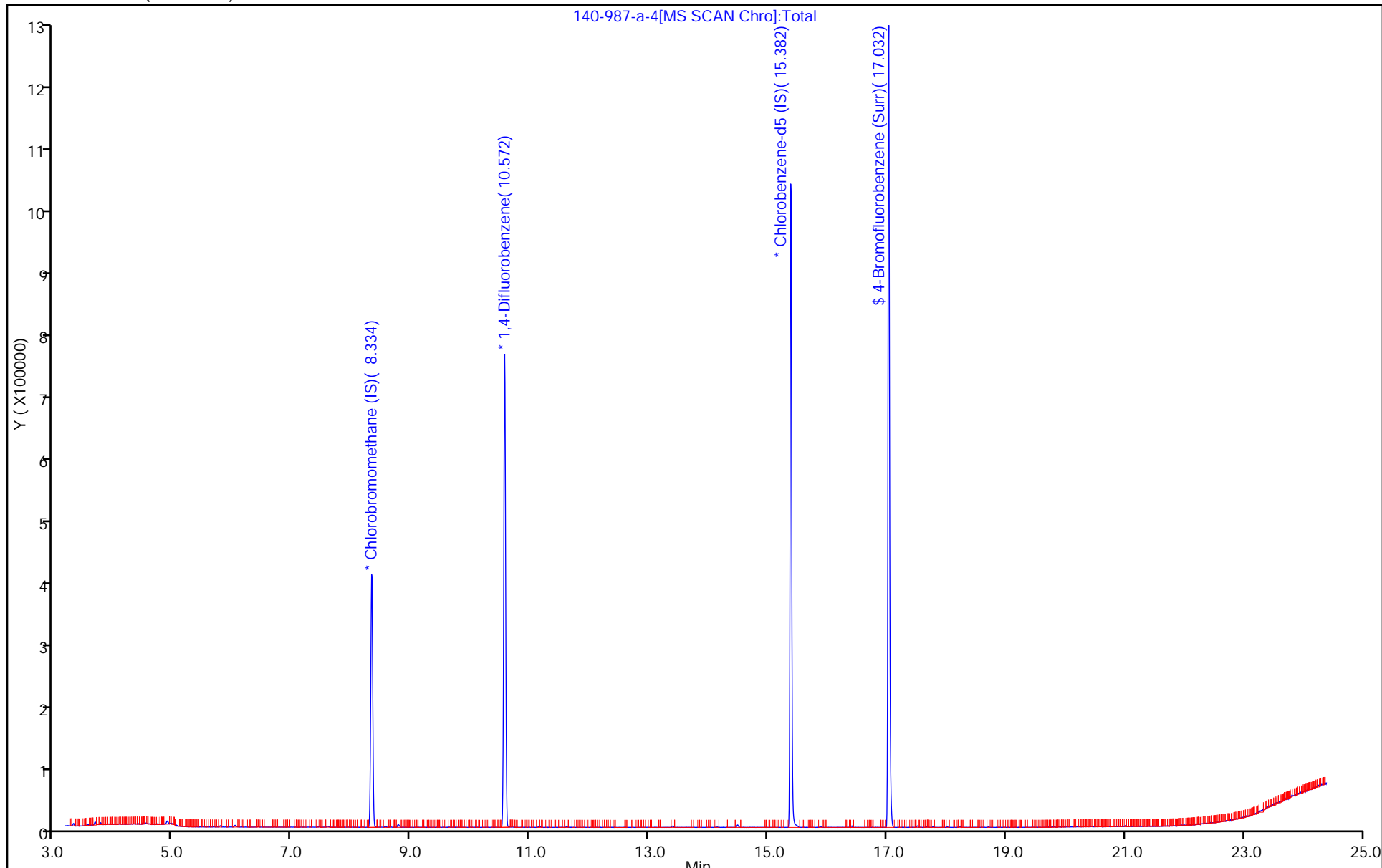
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville - Air Canister Initial Pressure Check

Analyst	Date	Time	Sample ID	6 L	1 L	Pressure @ Receipt (-in or +psig)	Comments
seg	"03/18/14"	0835	140-1063-A-1	x		-8.3	
seg	"03/18/14"	0836	140-1063-A-2	x		-3.6	
seg	"03/18/14"	0837	140-1063-A-3	x		-5.4	
seg	"03/18/14"	0838	140-1063-A-4	x		-2.7	
seg	"03/18/14"	0848	140-1063-A-5	x		-3.0	
seg	"03/18/14"	0849	140-1063-A-6	x		-2.0	
seg	"03/18/14"	0850	140-1063-A-8	x		-5.9	
seg	"03/18/14"	0851	140-1063-A-9	x		-5.8	
seg	"03/18/14"	0852	140-1063-A-10	x		-3.5	
seg	"03/18/14"	0855	140-1063-A-11	x		-4.6	
seg	"03/18/14"	0856	140-1063-A-12	x		-11	
seg	"03/18/14"	0857	140-1063-A-13	x		-6.3	
seg	"03/18/14"	0858	140-1063-A-14	x		-5.8	
seg	"03/18/14"	0859	140-1063-A-15	x		-13.7	
seg	"03/18/14"	0909	140-1063-A-16	x		-4.3	
seg	"03/18/14"	0910	140-1063-A-17	x		-4.2	
seg	"03/18/14"	0911	140-1063-A-18	x		-5.1	
seg	"03/18/14"	0912	140-1063-A-19	x		-5.1	
seg	"03/18/14"	0913	140-1063-A-20	x		-3.7	
seg	"03/18/14"	0916	140-1063-A-21	x		-6.7	
seg	"03/18/14"	0917	140-1063-A-22	x		-4.6	
seg	"03/18/14"	0918	140-1063-A-23	x		-3.7	
seg	"03/18/14"	0919	140-1063-A-24	x		-6.7	
seg	"03/18/14"	0920	140-1063-A-25	x		-6.3	
				x			
				x			

Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

TestAmerica assumes no liability with respect to the collection, and shipment of these samples.

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: Jennifer Pfeiffer		Sampled By: Sara Meissner	
Company: AECOM	Phone: 516-581-7313				
Address: 125 Broad Street	Site Contact: Jessica Ehlen				
City/State/Zip: New York, NY 10004	TAL Contact: Game McKinney				
Phone: 212-377-8400					
FAX: 212-377-8410					
Project Name: Stuy Town 1A	Analysis Turnaround Time				
Site/Location: Stuy Town, NYC	Standard (Specify) X				
PO #	Rush (Specify)				

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Con Ed Inpelist						Other (Please specify in notes section)	Landfill Gas	Soil Gas	Ambient Air	Indoor Air	Sample Type (Specify)	Other (Please specify in notes section)
								EPA 30	EPA 25C	ASTM D-1946	TO-14A	TO-15	TO-15							
1A4 - E14	3/13/14	1020	1712	-30	-2	10062	09683	X									X			71°
1A5 - E14	3/13/14	0858	1640	-30	-5	10297	10010	X									X			71°
1A6 - E14	3/13/14	0856	1645	-30	-4	10359	10188	X									X			71°
1A7 - E14	3/13/14	0850	1552	-30	-4	10792	09513	X									X			71°
AMB - 2	3/13/14	0910	1648	-30	-5	10666	09514	X									X			25°
AMB - 4	3/13/14	0915	1649	-30	-5	09914	10401	X									X			25°

Sampled by: Sara Meissner

Temperature (Fahrenheit)

Interior		Ambient
Start	71° F	21° F
Stop	72° F	32° F

Pressure (inches of Hg)

Interior		Ambient
Start		29.48"
Stop		29.74"

NO CUSTODY SEALS
RECEIVED AT AMBIENT TEMP
6:00 3-17-14
SAMPLE FEE MASTER # 79828138 4003

Special Instructions/QC Requirements & Comments:

25 CANS / 25 FLOWS / 9 C.C.

Canisters Shipped by: Sara Meissner

Date/Time: 3/13/14 17:21

Samples Relinquished by: [Signature]


Date/Time: 03-14-14 14:00

Relinquished by: B. Saranmaa

Canisters Received by: [Signature]

Date/Time: 3-17-14 11:15

140-1063 Chain of Custody



Canister Samples Chain of Custody Record

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: AECOM Address: 125 Broad Street City/State/Zip: New York NY 10004 Phone: 212-377-8400 FAX: 212-377-8410 Project Name: Peter Cooper Village IA Site/location: Peter Cooper Village, NYC PO #		Project Manager: Jennifer Pfeiffer Phone: 516-581-7313 Site Contact: Jessica Ehlen TAL Contact: Jamie McKinney		Sampled By: Kristen Barbour 2 of 2 JE COCs																																																																																																																																						
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TAL Knoxville
5815 Middlebrook Pike
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phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

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THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information Company: <u>AECOM</u> Address: <u>125 Broad Street</u> City/State/Zip: <u>New York NY 10004</u> Phone: <u>212-377-6400</u> FAX: <u>212-377-8410</u> Project Name: <u>Westtown IA</u> Site/Location: <u>Westtown, NY</u> PO #		Project Manager: <u>Jennifer Pfeiffer</u> Phone: <u>516-581-7313</u> Site Contact: <u>Jessica Ehlen</u> TAL Contact: <u>Jamie McKinney</u>		Sampled By: <u>Kristen Barbour</u> 23 of 6 COCs																																																																													
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Pressure (inches of Hg)																																																																																	
Interior	Ambient																																																																																
Start	<u>29.48</u>																																																																																
Stop	<u>29.72</u>																																																																																
Canisters Shipped by:		Canisters Received by:																																																																															
Samples Relinquished by:		Received by:																																																																															
Relinquished by: <u>B. Sommu</u>		Received by: <u>Kristen Barbour 3-17-14 11:15</u>																																																																															

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information Company: AELOM Address: 125 Broad Street City/State/Zip: New York, NY Phone: 212-377-8706 FAX: 212-377-8410 Project Name: Peter Cooper Village, NYC Site/location: Peter Cooper Village, NYC PO #		Project Manager: Jennifer Pfeiffer Phone: 212-377-8706 Site Contact: Jessica Ehlen TAL Contact: Jamie McKinney		Project Manager: J. Christoffel Sampled By: J. Christoffel		4 of 6 COCs											
Analysis Turnaround Time Standard (Specify) X Rush (Specify)		TO-15 + Con TO-15 + Con		TO-14A EPA 3C EPA 26C ASTM D-1946		Other (Please specify in notes section) Landfill Gas Soil Gas Ambient Air Indoor Air Sample Type (comp or field)											
Sample Identification		Sample Date(s)		Time Start		Time Stop		Canister Vacuum in Field, "Hg (Start)		Canister Vacuum in Field, "Hg (Stop)		Flow Controller ID		Canister ID		Other (Please specify in notes section)	
PCV-IAZ-BS		3-12-14		8:36		15:59		-30		-5		10632		10992		X	
PCV-IAZ-BS		L		8:41		15:56		-29		-4		9700		10718		X	
PCV-IAPC-BS		L		8:27		15:59		-30		-5		09947		10119		X	
Sampled by: Jennifer Christoffel		Temperature (Fahrenheit) Interior Ambient		47°F		50°F		PCV-IAZ-BS - 69°F PCV-IAZ-BS - 70°F PCV-IAPC-BS - 70°F		Temperature @ sample location		PCV-IAZ-BS - 69°F PCV-IAZ-BS - 70°F PCV-IAPC-BS - 70°F		Other (Please specify in notes section)			
Jennifer Christoffel		Pressure (Inches of Hg) Interior Ambient		29.57		29.21		Canisters Received by:		Received by:		Received by:		3-17-14 11:15			
Special Instructions/QC Requirements & Comments:		Canisters Shipped by:		Date/Time:		Canisters Received by:		Received by:		Received by:		3-17-14 11:15					

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Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Jennifer Pfister		Sampled By: Jennifer Christoffel		5 of 6 COCs								
Company: AECOM		Phone: 516-581-7313		EPA 26C		EPA 3C								
Address: 125 Broad Street		Site Contact: Jessica Ehlen		TO-14A		TO-15 tConEd MGR List								
City/State/Zip: New York, NY 10004		TAL Contact: Jamie McKinney		TO-14A		TO-15 tConEd MGR List								
Phone: 212-377-8400				TO-14A		TO-15 tConEd MGR List								
FAX: 212-377-8410				TO-14A		TO-15 tConEd MGR List								
Project Name: Student Town In		Analysis Turnaround Time		TO-14A		TO-15 tConEd MGR List								
Site/location: Student Town, NYC		Standard (Specify)		TO-14A		TO-15 tConEd MGR List								
PO #		Rush (Specify)		TO-14A		TO-15 tConEd MGR List								
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
AMB-1	3/13/14	0937	1625	-29	-6	10360	10512		X	X				32 °F
AMB-3	3/13/14	0935	1700	-30	-6	09913	09607		X	X				32 °F
IA1-E19	3/13/14	0921	1618	-29	-5	10668	10103		X	X				65 °F
IA2-E19	3/13/14	0925	1618	-30	-8	10622	09672		X	X				65 °F
IA1-E17	3/13/14	0848	1517	-30	-5	4205	10120		X	X				73 °F
IA1ED-E17	3/13/14	0940	1645	-30	-8	09555	10276		X	X				73 °F
Sampled by: J. Christoffel														
Temperature (Fahrenheit)														
Interior														
Ambient														
Start 21 °F														
Stop 30 °F														
Pressure (inches of Hg)														
Interior														
Ambient														
Start 29.48														
Stop 29.74														
Special Instructions/QC Requirements & Comments:														
Other = Room temp of Canisters / outdoor temp of canisters (for ambient)														
Canisters Shipped by: J. Christoffel														
Canisters Received by: [Signature]														
Date/Time: 3/13/14 17:12														
Date/Time: 03-14-14 14:00														
Date/Time: 03-17-14 11:15														
Received by: [Signature]														
Received by: [Signature]														

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Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: <u>ATECOM</u> Address: <u>125 Broad Street</u> City/State/Zip: <u>New York, NY 10004</u> Phone: <u>212-377-8400</u> FAX: <u>212-377-8410</u> Project Name: <u>Swineyard Run IA</u> Site/Location: <u>Stuyvesant Town, NYC</u> PO #		Project Manager: <u>Jennifer Pfeiffer</u> Phone: <u>516-581-7313</u> Site Contact: <u>Jessica Ellen</u> TAL Contact: <u>Jamie McKinney</u>		Sampled By: <u>J. Christoffel</u>		6 of 6 COCs	
Analysis Turnaround Time Standard (Specify): <u>Standard</u> Rush (Specify)		Sample Date(s) <u>3/13/14 0851 1618</u>		Time Start <u>0851</u>		Time Stop <u>1618</u>	
Sample Identification <u>IA2-E17</u>		Canister Vacuum in Field, "Hg (Start) <u>-29</u>		Canister Vacuum in Field, "Hg (Stop) <u>-5</u>		Flow Controller ID <u>10659</u>	
Canister ID <u>10038</u>		TO-15 + Conf Mgr List <input checked="" type="checkbox"/>		TO-14A <input type="checkbox"/>		EPA 3C <input type="checkbox"/>	
EPA 25C <input type="checkbox"/>		ASTM D-1946 <input type="checkbox"/>		Other (Please specify in notes section) <input type="checkbox"/>		Sample Type <u>Composite</u>	
Indoor Air <input type="checkbox"/>		Ambient Air <input type="checkbox"/>		Soil Gas <input type="checkbox"/>		Landfill Gas <input type="checkbox"/>	
Other (Please specify in notes section) <input type="checkbox"/>		71°F					

Sampled by: <u>J. Christoffel</u>		Temperature (Fahrenheit) Ambient Start: <u>21°F</u> Stop: <u>32°F</u>	
<u>J. Christoffel</u>		Pressure (inches of Hg) Ambient Start: <u>29.48</u> Stop: <u>29.74</u>	

Special Instructions/QC Requirements & Comments:
Other = Temp of room canister was sampled in.

Canisters Shipped by: <u>J. Christoffel</u>	Date/Time: <u>3/13/14 17:12</u>	Canisters Received by: <u>B. Somers</u>	Date/Time: <u>03-14-14 14:00</u>
Samples Relinquished by: <u>J. Christoffel</u>	Date/Time: <u>3/13/14 17:12</u>	Received by: <u>B. Somers</u>	Date/Time: <u>03-14-14 14:00</u>
Relinquished by: <u>B. Somers</u>	Date/Time: <u>03-14-14 14:00</u>	Received by: <u>B. Somers</u>	Date/Time: <u>03-17-14 11:15</u>

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1063-1

Login Number: 1063
List Number: 1
Creator: Dameron, Bryan K

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	CHECKED IN LAB
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1063-1

Login Number: 1063

List Source: TestAmerica Knoxville

List Number: 2

Creator: Dameron, Bryan K

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		

ANALYTICAL REPORT

Job Number: 140-1065-1

Job Description: PCV/ST

For:

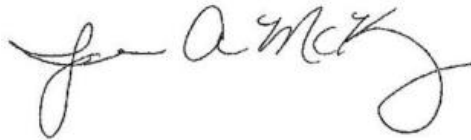
AECOM, Inc.

125 Broad Street

16th Floor

New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer



Approved for release.
Jamie A McKinney
Senior Project Manager
3/31/2014 9:50 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/31/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

TestAmerica Laboratories, Inc.

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Definitions/Glossary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
cn	Refer to Case Narrative for further detail
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
140-1065-1

Comments

No additional comments.

Receipt

The samples were received on 3/18/2014 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: SAMPLE 1 - CRAWLSPACE (140-1065-9).

Air - GC/MS VOA

There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

No other analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.10	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.094	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.43	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.72		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.8	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.27		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.093	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.61		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.14	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.67		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	230	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.11	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.42	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.19	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.24		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.10	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.81	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.082	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.16	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.2		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	190		4.0	4.0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.50	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.60	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	12	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.86		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.46	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.46	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	3.3		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	420	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.46	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.7	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.67	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	14		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.45	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4 (Continued)

Lab Sample ID: 140-1065-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	0.35	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	4.6		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	360		7.5	7.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.10	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.082	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.66	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.92		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.46	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	6.0		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.077	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.097	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.53		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.12	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.76		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	210	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.34	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.18	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	5.7		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.24		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.098	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	1.0	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.081	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.16	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.4		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	190		4.0	4.0	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.51	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.0	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.7		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.9	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.76		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.48	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.47	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.41	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	3.8		0.99	0.34	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 3- ROOM # 2 (Continued)

Lab Sample ID: 140-1065-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	390	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.44	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.4	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.62	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	14		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.94	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.43	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.8	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.34	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	5.3		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	360		7.5	7.5	ug/m3	1		TO-15	Total/NA

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.084	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.61	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Hexanone	0.064	J	0.50	0.058	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.70		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	1.8		0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	3.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.24		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.50		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	14		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Heptane	0.10	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.20	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	0.78	J	2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.21		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.093	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.81	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.33		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.36		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.73	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.39	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.26	J	2.0	0.24	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	7.2		2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	8.6	J	12	3.3	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 4- AMBIENT (Continued)

Lab Sample ID: 140-1065-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.75		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloromethane	1.0		1.0	0.33	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	26		3.8	3.8	ug/m3	1		TO-15	Total/NA
Heptane	0.41	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.71	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	1.9	J	4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.3	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.93		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.40	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.4	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	2.2		1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.4		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.073	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.59		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.20	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	4.4	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.22		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.051	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.55		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.16	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	120		2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.072	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.16	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.15	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.5		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.21	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.21		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.092	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.76	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.18	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	0.44		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.65	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	1.7		1.5	0.091	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 5- ROOM #11 (Continued)

Lab Sample ID: 140-1065-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	0.80	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	10	J	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.71		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.25	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.53	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	220		3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.31	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	0.65	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.53	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	11		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.75	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.91		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	0.40	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.3	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.2	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.7		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 02:43	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/20/14 02:43	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 02:43	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 02:43	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 02:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 02:43	1
1,2,4-Trimethylbenzene	0.10	J	0.20	0.063	ppb v/v			03/20/14 02:43	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 02:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 02:43	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 02:43	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 02:43	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 02:43	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 02:43	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 02:43	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 02:43	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 02:43	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 02:43	1
2,2,4-Trimethylpentane	0.094	J	0.50	0.039	ppb v/v			03/20/14 02:43	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
2-Butanone (MEK)	0.43	J	1.0	0.20	ppb v/v			03/20/14 02:43	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 02:43	1
2-Methylbutane	0.72		0.50	0.031	ppb v/v			03/20/14 02:43	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 02:43	1
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v			03/20/14 02:43	1
Acetone	4.8	J	5.0	1.4	ppb v/v			03/20/14 02:43	1
Benzene	0.27		0.20	0.056	ppb v/v			03/20/14 02:43	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 02:43	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 02:43	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 02:43	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 02:43	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 02:43	1
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v			03/20/14 02:43	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 02:43	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 02:43	1
Chloroform	0.093	J	0.20	0.038	ppb v/v			03/20/14 02:43	1
Chloromethane	0.61		0.50	0.16	ppb v/v			03/20/14 02:43	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 02:43	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 02:43	1
Cyclohexane	0.14	J	0.50	0.040	ppb v/v			03/20/14 02:43	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 02:43	1
Dichlorodifluoromethane	0.67		0.20	0.068	ppb v/v			03/20/14 02:43	1
Ethanol	230	E	2.0	2.0	ppb v/v			03/20/14 02:43	1
Ethylbenzene	0.11	J	0.20	0.068	ppb v/v			03/20/14 02:43	1
Heptane	0.42	J	0.50	0.047	ppb v/v			03/20/14 02:43	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 02:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.19	J	0.50	0.032	ppb v/v			03/20/14 02:43	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 02:43	1
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v			03/20/14 02:43	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 02:43	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/20/14 02:43	1
m-Xylene & p-Xylene	0.24		0.20	0.12	ppb v/v			03/20/14 02:43	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 02:43	1
o-Xylene	0.10	J	0.20	0.061	ppb v/v			03/20/14 02:43	1
Propene	0.81	cn	0.50	0.077	ppb v/v			03/20/14 02:43	1
Styrene	0.082	J	0.20	0.058	ppb v/v			03/20/14 02:43	1
Tetrachloroethene	0.16	J	0.20	0.040	ppb v/v			03/20/14 02:43	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 02:43	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
Toluene	1.2		0.20	0.12	ppb v/v			03/20/14 02:43	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 02:43	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 02:43	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 02:43	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 02:43	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 02:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 02:43	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/20/14 02:43	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 02:43	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 02:43	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 02:43	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 02:43	1
1,2,4-Trimethylbenzene	0.50	J	0.98	0.31	ug/m3			03/20/14 02:43	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 02:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 02:43	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 02:43	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 02:43	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 02:43	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 02:43	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 02:43	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 02:43	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 02:43	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 02:43	1
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3			03/20/14 02:43	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 02:43	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/20/14 02:43	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 02:43	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/20/14 02:43	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 02:43	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 02:43	1
4-Methyl-2-pentanone (MIBK)	0.60	J	2.0	0.18	ug/m3			03/20/14 02:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12	J	12	3.3	ug/m3			03/20/14 02:43	1
Benzene	0.86		0.64	0.18	ug/m3			03/20/14 02:43	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 02:43	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 02:43	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 02:43	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 02:43	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 02:43	1
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3			03/20/14 02:43	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 02:43	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 02:43	1
Chloroform	0.46	J	0.98	0.19	ug/m3			03/20/14 02:43	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/20/14 02:43	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 02:43	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 02:43	1
Cyclohexane	0.46	J	1.7	0.14	ug/m3			03/20/14 02:43	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 02:43	1
Dichlorodifluoromethane	3.3		0.99	0.34	ug/m3			03/20/14 02:43	1
Ethanol	420	E	3.8	3.8	ug/m3			03/20/14 02:43	1
Ethylbenzene	0.46	J	0.87	0.30	ug/m3			03/20/14 02:43	1
Heptane	1.7	J	2.0	0.19	ug/m3			03/20/14 02:43	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 02:43	1
Hexane	0.67	J	1.8	0.11	ug/m3			03/20/14 02:43	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 02:43	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 02:43	1
Isopropyl alcohol	14		4.9	0.23	ug/m3			03/20/14 02:43	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 02:43	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/20/14 02:43	1
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3			03/20/14 02:43	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 02:43	1
o-Xylene	0.45	J	0.87	0.26	ug/m3			03/20/14 02:43	1
Propene	1.4	cn	0.86	0.13	ug/m3			03/20/14 02:43	1
Styrene	0.35	J	0.85	0.25	ug/m3			03/20/14 02:43	1
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3			03/20/14 02:43	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 02:43	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 02:43	1
Toluene	4.6		0.75	0.45	ug/m3			03/20/14 02:43	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 02:43	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 02:43	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 02:43	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 02:43	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/20/14 02:43	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	190		4.0	4.0	ppb v/v			03/21/14 02:10	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	360		7.5	7.5	ug/m3			03/21/14 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/21/14 02:10	1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 03:37	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v			03/20/14 03:37	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 03:37	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 03:37	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 03:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 03:37	1
1,2,4-Trimethylbenzene	0.10	J	0.20	0.063	ppb v/v			03/20/14 03:37	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 03:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 03:37	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 03:37	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 03:37	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 03:37	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 03:37	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 03:37	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 03:37	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 03:37	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 03:37	1
2,2,4-Trimethylpentane	0.082	J	0.50	0.039	ppb v/v			03/20/14 03:37	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
2-Butanone (MEK)	0.66	J	1.0	0.20	ppb v/v			03/20/14 03:37	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 03:37	1
2-Methylbutane	0.92		0.50	0.031	ppb v/v			03/20/14 03:37	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 03:37	1
4-Methyl-2-pentanone (MIBK)	0.46	J	0.50	0.045	ppb v/v			03/20/14 03:37	1
Acetone	6.0		5.0	1.4	ppb v/v			03/20/14 03:37	1
Benzene	0.24		0.20	0.056	ppb v/v			03/20/14 03:37	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 03:37	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 03:37	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 03:37	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 03:37	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 03:37	1
Carbon tetrachloride	0.077	J	0.20	0.038	ppb v/v			03/20/14 03:37	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 03:37	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 03:37	1
Chloroform	0.097	J	0.20	0.038	ppb v/v			03/20/14 03:37	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.53		0.50	0.16	ppb v/v			03/20/14 03:37	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 03:37	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 03:37	1
Cyclohexane	0.12	J	0.50	0.040	ppb v/v			03/20/14 03:37	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 03:37	1
Dichlorodifluoromethane	0.76		0.20	0.068	ppb v/v			03/20/14 03:37	1
Ethanol	210	E	2.0	2.0	ppb v/v			03/20/14 03:37	1
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v			03/20/14 03:37	1
Heptane	0.34	J	0.50	0.047	ppb v/v			03/20/14 03:37	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 03:37	1
Hexane	0.18	J	0.50	0.032	ppb v/v			03/20/14 03:37	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 03:37	1
Isopropyl alcohol	5.7		2.0	0.094	ppb v/v			03/20/14 03:37	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 03:37	1
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v			03/20/14 03:37	1
m-Xylene & p-Xylene	0.24		0.20	0.12	ppb v/v			03/20/14 03:37	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 03:37	1
o-Xylene	0.098	J	0.20	0.061	ppb v/v			03/20/14 03:37	1
Propene	1.0	cn	0.50	0.077	ppb v/v			03/20/14 03:37	1
Styrene	0.081	J	0.20	0.058	ppb v/v			03/20/14 03:37	1
Tetrachloroethene	0.16	J	0.20	0.040	ppb v/v			03/20/14 03:37	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 03:37	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
Toluene	1.4		0.20	0.12	ppb v/v			03/20/14 03:37	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 03:37	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 03:37	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 03:37	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/20/14 03:37	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 03:37	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 03:37	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3			03/20/14 03:37	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 03:37	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 03:37	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 03:37	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 03:37	1
1,2,4-Trimethylbenzene	0.51	J	0.98	0.31	ug/m3			03/20/14 03:37	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 03:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 03:37	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 03:37	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 03:37	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 03:37	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 03:37	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 03:37	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 03:37	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 03:37	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 03:37	1
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3			03/20/14 03:37	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 03:37	1
2-Butanone (MEK)	2.0	J	2.9	0.59	ug/m3			03/20/14 03:37	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 03:37	1
2-Methylbutane	2.7		1.5	0.091	ug/m3			03/20/14 03:37	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 03:37	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 03:37	1
4-Methyl-2-pentanone (MIBK)	1.9	J	2.0	0.18	ug/m3			03/20/14 03:37	1
Acetone	14		12	3.3	ug/m3			03/20/14 03:37	1
Benzene	0.76		0.64	0.18	ug/m3			03/20/14 03:37	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 03:37	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 03:37	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 03:37	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 03:37	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 03:37	1
Carbon tetrachloride	0.48	J	1.3	0.24	ug/m3			03/20/14 03:37	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 03:37	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 03:37	1
Chloroform	0.47	J	0.98	0.19	ug/m3			03/20/14 03:37	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/20/14 03:37	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 03:37	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 03:37	1
Cyclohexane	0.41	J	1.7	0.14	ug/m3			03/20/14 03:37	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 03:37	1
Dichlorodifluoromethane	3.8		0.99	0.34	ug/m3			03/20/14 03:37	1
Ethanol	390	E	3.8	3.8	ug/m3			03/20/14 03:37	1
Ethylbenzene	0.44	J	0.87	0.30	ug/m3			03/20/14 03:37	1
Heptane	1.4	J	2.0	0.19	ug/m3			03/20/14 03:37	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 03:37	1
Hexane	0.62	J	1.8	0.11	ug/m3			03/20/14 03:37	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 03:37	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 03:37	1
Isopropyl alcohol	14		4.9	0.23	ug/m3			03/20/14 03:37	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 03:37	1
Methylene Chloride	0.94	J	1.7	0.45	ug/m3			03/20/14 03:37	1
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3			03/20/14 03:37	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 03:37	1
o-Xylene	0.43	J	0.87	0.26	ug/m3			03/20/14 03:37	1
Propene	1.8	cn	0.86	0.13	ug/m3			03/20/14 03:37	1
Styrene	0.34	J	0.85	0.25	ug/m3			03/20/14 03:37	1
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3			03/20/14 03:37	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 03:37	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 03:37	1
Toluene	5.3		0.75	0.45	ug/m3			03/20/14 03:37	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 03:37	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 03:37	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 03:37	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/20/14 03:37	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/20/14 03:37	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	190		4.0	4.0	ppb v/v			03/21/14 02:57	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	360		7.5	7.5	ug/m3			03/21/14 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/21/14 02:57	1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 04:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/20/14 04:32	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 04:32	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 04:32	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 04:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 04:32	1
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v			03/20/14 04:32	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 04:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 04:32	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 04:32	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 04:32	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 04:32	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 04:32	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 04:32	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 04:32	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 04:32	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 04:32	1
2,2,4-Trimethylpentane	0.084	J	0.50	0.039	ppb v/v			03/20/14 04:32	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
2-Butanone (MEK)	0.61	J	1.0	0.20	ppb v/v			03/20/14 04:32	1
2-Hexanone	0.064	J	0.50	0.058	ppb v/v			03/20/14 04:32	1
2-Methylbutane	0.70		0.50	0.031	ppb v/v			03/20/14 04:32	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 04:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	1.8		0.50	0.045	ppb v/v			03/20/14 04:32	1
Acetone	3.6	J	5.0	1.4	ppb v/v			03/20/14 04:32	1
Benzene	0.24		0.20	0.056	ppb v/v			03/20/14 04:32	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 04:32	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 04:32	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 04:32	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 04:32	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 04:32	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/20/14 04:32	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 04:32	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 04:32	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 04:32	1
Chloromethane	0.50		0.50	0.16	ppb v/v			03/20/14 04:32	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 04:32	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 04:32	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 04:32	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 04:32	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/20/14 04:32	1
Ethanol	14		2.0	2.0	ppb v/v			03/20/14 04:32	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 04:32	1
Heptane	0.10	J	0.50	0.047	ppb v/v			03/20/14 04:32	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 04:32	1
Hexane	0.20	J	0.50	0.032	ppb v/v			03/20/14 04:32	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 04:32	1
Isopropyl alcohol	0.78	J	2.0	0.094	ppb v/v			03/20/14 04:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 04:32	1
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v			03/20/14 04:32	1
m-Xylene & p-Xylene	0.21		0.20	0.12	ppb v/v			03/20/14 04:32	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 04:32	1
o-Xylene	0.093	J	0.20	0.061	ppb v/v			03/20/14 04:32	1
Propene	0.81	cn	0.50	0.077	ppb v/v			03/20/14 04:32	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 04:32	1
Tetrachloroethene	0.33		0.20	0.040	ppb v/v			03/20/14 04:32	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 04:32	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
Toluene	0.36		0.20	0.12	ppb v/v			03/20/14 04:32	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 04:32	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 04:32	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 04:32	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 04:32	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 04:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 04:32	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 04:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/20/14 04:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 04:32	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 04:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 04:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 04:32	1
1,2,4-Trimethylbenzene	0.73	J	0.98	0.31	ug/m3			03/20/14 04:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 04:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 04:32	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 04:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 04:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 04:32	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 04:32	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 04:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 04:32	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 04:32	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 04:32	1
2,2,4-Trimethylpentane	0.39	J	2.3	0.18	ug/m3			03/20/14 04:32	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 04:32	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/20/14 04:32	1
2-Hexanone	0.26	J	2.0	0.24	ug/m3			03/20/14 04:32	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/20/14 04:32	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 04:32	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 04:32	1
4-Methyl-2-pentanone (MIBK)	7.2		2.0	0.18	ug/m3			03/20/14 04:32	1
Acetone	8.6	J	12	3.3	ug/m3			03/20/14 04:32	1
Benzene	0.75		0.64	0.18	ug/m3			03/20/14 04:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 04:32	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 04:32	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 04:32	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 04:32	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 04:32	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/20/14 04:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 04:32	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 04:32	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 04:32	1
Chloromethane	1.0		1.0	0.33	ug/m3			03/20/14 04:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 04:32	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 04:32	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 04:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 04:32	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/20/14 04:32	1
Ethanol	26		3.8	3.8	ug/m3			03/20/14 04:32	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 04:32	1
Heptane	0.41	J	2.0	0.19	ug/m3			03/20/14 04:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 04:32	1
Hexane	0.71	J	1.8	0.11	ug/m3			03/20/14 04:32	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 04:32	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 04:32	1
Isopropyl alcohol	1.9	J	4.9	0.23	ug/m3			03/20/14 04:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 04:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/20/14 04:32	1
m-Xylene & p-Xylene	0.93		0.87	0.52	ug/m3			03/20/14 04:32	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 04:32	1
o-Xylene	0.40	J	0.87	0.26	ug/m3			03/20/14 04:32	1
Propene	1.4	cn	0.86	0.13	ug/m3			03/20/14 04:32	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 04:32	1
Tetrachloroethene	2.2		1.4	0.27	ug/m3			03/20/14 04:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 04:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 04:32	1
Toluene	1.4		0.75	0.45	ug/m3			03/20/14 04:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 04:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 04:32	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 04:32	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 04:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/20/14 04:32	1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 05:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 05:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/20/14 05:26	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 05:26	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 05:26	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 05:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 05:26	1
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v			03/20/14 05:26	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 05:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 05:26	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 05:26	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 05:26	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 05:26	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 05:26	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 05:26	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 05:26	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 05:26	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 05:26	1
2,2,4-Trimethylpentane	0.073	J	0.50	0.039	ppb v/v			03/20/14 05:26	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v			03/20/14 05:26	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 05:26	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylbutane	0.59		0.50	0.031	ppb v/v			03/20/14 05:26	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 05:26	1
4-Methyl-2-pentanone (MIBK)	0.20	J	0.50	0.045	ppb v/v			03/20/14 05:26	1
Acetone	4.4	J	5.0	1.4	ppb v/v			03/20/14 05:26	1
Benzene	0.22		0.20	0.056	ppb v/v			03/20/14 05:26	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 05:26	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 05:26	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 05:26	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 05:26	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 05:26	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/20/14 05:26	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 05:26	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 05:26	1
Chloroform	0.051	J	0.20	0.038	ppb v/v			03/20/14 05:26	1
Chloromethane	0.55		0.50	0.16	ppb v/v			03/20/14 05:26	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 05:26	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 05:26	1
Cyclohexane	0.16	J	0.50	0.040	ppb v/v			03/20/14 05:26	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 05:26	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/20/14 05:26	1
Ethanol	120		2.0	2.0	ppb v/v			03/20/14 05:26	1
Ethylbenzene	0.072	J	0.20	0.068	ppb v/v			03/20/14 05:26	1
Heptane	0.16	J	0.50	0.047	ppb v/v			03/20/14 05:26	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 05:26	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/20/14 05:26	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 05:26	1
Isopropyl alcohol	4.5		2.0	0.094	ppb v/v			03/20/14 05:26	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 05:26	1
Methylene Chloride	0.21	J	0.50	0.13	ppb v/v			03/20/14 05:26	1
m-Xylene & p-Xylene	0.21		0.20	0.12	ppb v/v			03/20/14 05:26	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 05:26	1
o-Xylene	0.092	J	0.20	0.061	ppb v/v			03/20/14 05:26	1
Propene	0.76	cn	0.50	0.077	ppb v/v			03/20/14 05:26	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 05:26	1
Tetrachloroethene	0.18	J	0.20	0.040	ppb v/v			03/20/14 05:26	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 05:26	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
Toluene	0.44		0.20	0.12	ppb v/v			03/20/14 05:26	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 05:26	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 05:26	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 05:26	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 05:26	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 05:26	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 05:26	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 05:26	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/20/14 05:26	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 05:26	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 05:26	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 05:26	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 05:26	1
1,2,4-Trimethylbenzene	0.65	J	0.98	0.31	ug/m3			03/20/14 05:26	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 05:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 05:26	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 05:26	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 05:26	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 05:26	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 05:26	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 05:26	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 05:26	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 05:26	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 05:26	1
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3			03/20/14 05:26	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 05:26	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/20/14 05:26	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 05:26	1
2-Methylbutane	1.7		1.5	0.091	ug/m3			03/20/14 05:26	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 05:26	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 05:26	1
4-Methyl-2-pentanone (MIBK)	0.80	J	2.0	0.18	ug/m3			03/20/14 05:26	1
Acetone	10	J	12	3.3	ug/m3			03/20/14 05:26	1
Benzene	0.71		0.64	0.18	ug/m3			03/20/14 05:26	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 05:26	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 05:26	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 05:26	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 05:26	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 05:26	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/20/14 05:26	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 05:26	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 05:26	1
Chloroform	0.25	J	0.98	0.19	ug/m3			03/20/14 05:26	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/20/14 05:26	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 05:26	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 05:26	1
Cyclohexane	0.53	J	1.7	0.14	ug/m3			03/20/14 05:26	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 05:26	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/20/14 05:26	1
Ethanol	220		3.8	3.8	ug/m3			03/20/14 05:26	1
Ethylbenzene	0.31	J	0.87	0.30	ug/m3			03/20/14 05:26	1
Heptane	0.65	J	2.0	0.19	ug/m3			03/20/14 05:26	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 05:26	1
Hexane	0.53	J	1.8	0.11	ug/m3			03/20/14 05:26	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 05:26	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 05:26	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	11		4.9	0.23	ug/m3			03/20/14 05:26	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 05:26	1
Methylene Chloride	0.75	J	1.7	0.45	ug/m3			03/20/14 05:26	1
m-Xylene & p-Xylene	0.91		0.87	0.52	ug/m3			03/20/14 05:26	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 05:26	1
o-Xylene	0.40	J	0.87	0.26	ug/m3			03/20/14 05:26	1
Propene	1.3	cn	0.86	0.13	ug/m3			03/20/14 05:26	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 05:26	1
Tetrachloroethene	1.2	J	1.4	0.27	ug/m3			03/20/14 05:26	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 05:26	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 05:26	1
Toluene	1.7		0.75	0.45	ug/m3			03/20/14 05:26	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 05:26	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 05:26	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 05:26	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 05:26	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/20/14 05:26	1

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB			
Lab Sample ID	Client Sample ID	(60-140)			
140-1065-1	SAMPLE 2- ROOM # 4	97			
140-1065-1 - DL	SAMPLE 2- ROOM # 4	97			
140-1065-2	SAMPLE 3- ROOM # 2	95			
140-1065-2 - DL	SAMPLE 3- ROOM # 2	97			
140-1065-3	SAMPLE 4- AMBIENT	94			
140-1065-4	SAMPLE 5- ROOM #11	97			
LCS 140-976/1002	Lab Control Sample	98			
LCS 140-979/1002	Lab Control Sample	96			
MB 140-976/1004	Method Blank	93			
MB 140-979/5	Method Blank	94			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-976/1004

Matrix: Air

Analysis Batch: 976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 13:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/19/14 13:17	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 13:17	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 13:17	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 13:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 13:17	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 13:17	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 13:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 13:17	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 13:17	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 13:17	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 13:17	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 13:17	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 13:17	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 13:17	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 13:17	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 13:17	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 13:17	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/19/14 13:17	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 13:17	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/19/14 13:17	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/19/14 13:17	1
Acetone	ND		5.0	1.4	ppb v/v			03/19/14 13:17	1
Benzene	ND		0.20	0.056	ppb v/v			03/19/14 13:17	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 13:17	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 13:17	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 13:17	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 13:17	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 13:17	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/19/14 13:17	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 13:17	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 13:17	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 13:17	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/19/14 13:17	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 13:17	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 13:17	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 13:17	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 13:17	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/19/14 13:17	1
Ethanol	ND		2.0	2.0	ppb v/v			03/19/14 13:17	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 13:17	1
Heptane	ND		0.50	0.047	ppb v/v			03/19/14 13:17	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 13:17	1
Hexane	ND		0.50	0.032	ppb v/v			03/19/14 13:17	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004

Matrix: Air

Analysis Batch: 976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 13:17	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/19/14 13:17	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 13:17	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/19/14 13:17	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/19/14 13:17	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 13:17	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 13:17	1
Propene	ND		0.50	0.077	ppb v/v			03/19/14 13:17	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 13:17	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/19/14 13:17	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 13:17	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 13:17	1
Toluene	ND		0.20	0.12	ppb v/v			03/19/14 13:17	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 13:17	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 13:17	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 13:17	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/19/14 13:17	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 13:17	1

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 13:17	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/19/14 13:17	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 13:17	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 13:17	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 13:17	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 13:17	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 13:17	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 13:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 13:17	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 13:17	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 13:17	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 13:17	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 13:17	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 13:17	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 13:17	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 13:17	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 13:17	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 13:17	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 13:17	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/19/14 13:17	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 13:17	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/19/14 13:17	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 13:17	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/19/14 13:17	1
Acetone	ND		12	3.3	ug/m3			03/19/14 13:17	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-976/1004

Matrix: Air

Analysis Batch: 976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/19/14 13:17	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 13:17	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 13:17	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 13:17	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 13:17	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 13:17	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/19/14 13:17	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 13:17	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 13:17	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 13:17	1
Chloromethane	ND		1.0	0.33	ug/m3			03/19/14 13:17	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 13:17	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 13:17	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 13:17	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 13:17	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/19/14 13:17	1
Ethanol	ND		3.8	3.8	ug/m3			03/19/14 13:17	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 13:17	1
Heptane	ND		2.0	0.19	ug/m3			03/19/14 13:17	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 13:17	1
Hexane	ND		1.8	0.11	ug/m3			03/19/14 13:17	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 13:17	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 13:17	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/19/14 13:17	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 13:17	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/19/14 13:17	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/19/14 13:17	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 13:17	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 13:17	1
Propene	ND		0.86	0.13	ug/m3			03/19/14 13:17	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 13:17	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/19/14 13:17	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 13:17	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 13:17	1
Toluene	ND		0.75	0.45	ug/m3			03/19/14 13:17	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 13:17	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 13:17	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 13:17	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/19/14 13:17	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 13:17	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140					03/19/14 13:17	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002

Matrix: Air

Analysis Batch: 976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.04		ppb v/v		102	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.36		ppb v/v		118	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.34		ppb v/v		117	70 - 130
1,1,2-Trichloroethane	2.00	2.19		ppb v/v		109	70 - 130
1,1-Dichloroethane	2.00	2.05		ppb v/v		102	70 - 130
1,1-Dichloroethene	2.00	2.37		ppb v/v		118	70 - 130
1,2,4-Trichlorobenzene	2.00	2.03		ppb v/v		101	60 - 140
1,2,4-Trimethylbenzene	2.00	2.38		ppb v/v		119	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.20		ppb v/v		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.23		ppb v/v		112	60 - 140
1,2-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,2-Dichloropropane	2.00	2.08		ppb v/v		104	70 - 130
1,3,5-Trimethylbenzene	2.00	2.37		ppb v/v		118	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	2.08		ppb v/v		104	70 - 130
1,4-Dichlorobenzene	2.00	2.07		ppb v/v		104	70 - 130
1,4-Dioxane	2.00	2.14		ppb v/v		107	60 - 140
2,2,4-Trimethylpentane	2.00	2.13		ppb v/v		107	70 - 130
2,3-Dimethylpentane	2.00	2.10		ppb v/v		105	20 - 180
2-Butanone (MEK)	2.00	2.15		ppb v/v		107	60 - 140
2-Hexanone	2.00	2.27		ppb v/v		113	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.95		ppb v/v		97	20 - 180
4-Ethyltoluene	2.00	2.43		ppb v/v		122	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.23		ppb v/v		112	60 - 140
Acetone	2.00	1.42	J	ppb v/v		71	60 - 140
Benzene	2.00	2.02		ppb v/v		101	70 - 130
Benzyl chloride	2.00	2.19		ppb v/v		110	70 - 130
Bromodichloromethane	2.00	2.20		ppb v/v		110	70 - 130
Bromoform	2.00	2.18		ppb v/v		109	60 - 140
Bromomethane	2.00	1.97		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.06		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.15		ppb v/v		108	70 - 130
Chlorobenzene	2.00	2.12		ppb v/v		106	70 - 130
Chloroethane	2.00	1.94		ppb v/v		97	70 - 130
Chloroform	2.00	2.05		ppb v/v		102	70 - 130
Chloromethane	2.00	2.05		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	2.15		ppb v/v		107	70 - 130
cis-1,3-Dichloropropene	2.00	2.07		ppb v/v		103	70 - 130
Cyclohexane	2.00	2.16		ppb v/v		108	70 - 130
Dibromochloromethane	2.00	2.18		ppb v/v		109	70 - 130
Dichlorodifluoromethane	2.00	2.16		ppb v/v		108	60 - 140
Ethanol	10.0	10.6		ppb v/v		106	20 - 180
Ethylbenzene	2.00	2.41		ppb v/v		121	70 - 130
Heptane	2.00	2.16		ppb v/v		108	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002

Matrix: Air

Analysis Batch: 976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Hexachlorobutadiene	2.00	1.81		ppb v/v		91	60 - 140
Hexane	2.00	1.84		ppb v/v		92	70 - 130
Indane	2.00	2.35		ppb v/v		118	20 - 180
Indene	2.00	2.42		ppb v/v		121	20 - 180
Isopropyl alcohol	2.00	1.99		ppb v/v		100	60 - 140
Methyl tert-butyl ether	2.00	2.26		ppb v/v		113	60 - 140
Methylene Chloride	2.00	2.20		ppb v/v		110	70 - 130
m-Xylene & p-Xylene	4.00	4.65		ppb v/v		116	70 - 130
Naphthalene	2.00	2.05		ppb v/v		102	40 - 140
o-Xylene	2.00	2.36		ppb v/v		118	70 - 130
Propene	2.00	2.03		ppb v/v		101	60 - 140
Styrene	2.00	2.40		ppb v/v		120	70 - 130
Tetrachloroethene	2.00	2.19		ppb v/v		110	70 - 130
Tetrahydrofuran	2.00	2.20		ppb v/v		110	60 - 140
Thiophene	2.00	2.11		ppb v/v		105	20 - 180
Toluene	2.00	2.29		ppb v/v		114	70 - 130
trans-1,2-Dichloroethene	2.00	1.96		ppb v/v		98	70 - 130
trans-1,3-Dichloropropene	2.00	2.25		ppb v/v		113	70 - 130
Trichloroethene	2.00	2.21		ppb v/v		111	70 - 130
Trichlorofluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Vinyl chloride	2.00	2.05		ppb v/v		102	70 - 130
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,1,1-Trichloroethane	11	11.1		ug/m3		102	70 - 130
1,1,2,2-Tetrachloroethane	14	16.2		ug/m3		118	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.9		ug/m3		117	70 - 130
1,1,2-Trichloroethane	11	11.9		ug/m3		109	70 - 130
1,1-Dichloroethane	8.1	8.29		ug/m3		102	70 - 130
1,1-Dichloroethene	7.9	9.39		ug/m3		118	70 - 130
1,2,4-Trichlorobenzene	15	15.0		ug/m3		101	60 - 140
1,2,4-Trimethylbenzene	9.8	11.7		ug/m3		119	70 - 130
1,2-Dibromoethane (EDB)	15	16.9		ug/m3		110	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	15.6		ug/m3		112	60 - 140
1,2-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,2-Dichloroethane	8.1	8.49		ug/m3		105	70 - 130
1,2-Dichloropropane	9.2	9.59		ug/m3		104	70 - 130
1,3,5-Trimethylbenzene	9.8	11.7		ug/m3		118	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dichlorobenzene	12	12.5		ug/m3		104	70 - 130
1,4-Dioxane	7.2	7.71		ug/m3		107	60 - 140
2,2,4-Trimethylpentane	9.3	9.97		ug/m3		107	70 - 130
2,3-Dimethylpentane	8.2	8.60		ug/m3		105	20 - 180
2-Butanone (MEK)	5.9	6.33		ug/m3		107	60 - 140
2-Hexanone	8.2	9.30		ug/m3		113	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.87		ug/m3		97	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-976/1002

Matrix: Air

Analysis Batch: 976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier			Limits	
4-Ethyltoluene	9.8	12.0		ug/m3		122	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	9.15		ug/m3		112	60 - 140
Acetone	4.8	3.37	J	ug/m3		71	60 - 140
Benzene	6.4	6.45		ug/m3		101	70 - 130
Benzyl chloride	10	11.4		ug/m3		110	70 - 130
Bromodichloromethane	13	14.7		ug/m3		110	70 - 130
Bromoform	21	22.5		ug/m3		109	60 - 140
Bromomethane	7.8	7.66		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.43		ug/m3		103	70 - 130
Carbon tetrachloride	13	13.5		ug/m3		108	70 - 130
Chlorobenzene	9.2	9.77		ug/m3		106	70 - 130
Chloroethane	5.3	5.11		ug/m3		97	70 - 130
Chloroform	9.8	10.0		ug/m3		102	70 - 130
Chloromethane	4.1	4.23		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	8.52		ug/m3		107	70 - 130
cis-1,3-Dichloropropene	9.1	9.39		ug/m3		103	70 - 130
Cyclohexane	6.9	7.43		ug/m3		108	70 - 130
Dibromochloromethane	17	18.6		ug/m3		109	70 - 130
Dichlorodifluoromethane	9.9	10.7		ug/m3		108	60 - 140
Ethanol	19	20.0		ug/m3		106	20 - 180
Ethylbenzene	8.7	10.5		ug/m3		121	70 - 130
Heptane	8.2	8.86		ug/m3		108	70 - 130
Hexachlorobutadiene	21	19.3		ug/m3		91	60 - 140
Hexane	7.1	6.48		ug/m3		92	70 - 130
Indane	9.7	11.4		ug/m3		118	20 - 180
Indene	9.5	11.5		ug/m3		121	20 - 180
Isopropyl alcohol	4.9	4.90		ug/m3		100	60 - 140
Methyl tert-butyl ether	7.2	8.15		ug/m3		113	60 - 140
Methylene Chloride	7.0	7.64		ug/m3		110	70 - 130
m-Xylene & p-Xylene	17	20.2		ug/m3		116	70 - 130
Naphthalene	10	10.7		ug/m3		102	40 - 140
o-Xylene	8.7	10.2		ug/m3		118	70 - 130
Propene	3.4	3.49		ug/m3		101	60 - 140
Styrene	8.5	10.2		ug/m3		120	70 - 130
Tetrachloroethene	14	14.9		ug/m3		110	70 - 130
Tetrahydrofuran	5.9	6.50		ug/m3		110	60 - 140
Thiophene	6.9	7.25		ug/m3		105	20 - 180
Toluene	7.5	8.62		ug/m3		114	70 - 130
trans-1,2-Dichloroethene	7.9	7.79		ug/m3		98	70 - 130
trans-1,3-Dichloropropene	9.1	10.2		ug/m3		113	70 - 130
Trichloroethene	11	11.9		ug/m3		111	70 - 130
Trichlorofluoromethane	11	11.8		ug/m3		105	60 - 140
Vinyl chloride	5.1	5.23		ug/m3		102	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		60 - 140

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-979/5

Matrix: Air

Analysis Batch: 979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 13:11	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/20/14 13:11	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 13:11	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 13:11	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 13:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 13:11	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 13:11	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 13:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 13:11	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 13:11	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 13:11	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 13:11	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 13:11	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 13:11	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 13:11	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 13:11	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 13:11	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 13:11	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 13:11	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/20/14 13:11	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 13:11	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/20/14 13:11	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 13:11	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 13:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/20/14 13:11	1
Acetone	ND		5.0	1.4	ppb v/v			03/20/14 13:11	1
Benzene	ND		0.20	0.056	ppb v/v			03/20/14 13:11	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 13:11	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 13:11	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 13:11	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 13:11	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 13:11	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/20/14 13:11	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 13:11	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 13:11	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 13:11	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/20/14 13:11	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 13:11	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 13:11	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 13:11	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 13:11	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/20/14 13:11	1
Ethanol	ND		2.0	2.0	ppb v/v			03/20/14 13:11	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 13:11	1
Heptane	ND		0.50	0.047	ppb v/v			03/20/14 13:11	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 13:11	1
Hexane	ND		0.50	0.032	ppb v/v			03/20/14 13:11	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-979/5

Matrix: Air

Analysis Batch: 979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/20/14 13:11	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 13:11	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/20/14 13:11	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 13:11	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/20/14 13:11	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/20/14 13:11	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 13:11	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/20/14 13:11	1
Propene	ND		0.50	0.077	ppb v/v			03/20/14 13:11	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 13:11	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/20/14 13:11	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 13:11	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 13:11	1
Toluene	ND		0.20	0.12	ppb v/v			03/20/14 13:11	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 13:11	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 13:11	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 13:11	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/20/14 13:11	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 13:11	1

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 13:11	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/20/14 13:11	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 13:11	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 13:11	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 13:11	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 13:11	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 13:11	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 13:11	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 13:11	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 13:11	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 13:11	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 13:11	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 13:11	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 13:11	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 13:11	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 13:11	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 13:11	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 13:11	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 13:11	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/20/14 13:11	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 13:11	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/20/14 13:11	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 13:11	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 13:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/20/14 13:11	1
Acetone	ND		12	3.3	ug/m3			03/20/14 13:11	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-979/5

Matrix: Air

Analysis Batch: 979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/20/14 13:11	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 13:11	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 13:11	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 13:11	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 13:11	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 13:11	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/20/14 13:11	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 13:11	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 13:11	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 13:11	1
Chloromethane	ND		1.0	0.33	ug/m3			03/20/14 13:11	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 13:11	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 13:11	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 13:11	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 13:11	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/20/14 13:11	1
Ethanol	ND		3.8	3.8	ug/m3			03/20/14 13:11	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 13:11	1
Heptane	ND		2.0	0.19	ug/m3			03/20/14 13:11	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 13:11	1
Hexane	ND		1.8	0.11	ug/m3			03/20/14 13:11	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 13:11	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 13:11	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/20/14 13:11	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 13:11	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/20/14 13:11	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/20/14 13:11	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 13:11	1
o-Xylene	ND		0.87	0.26	ug/m3			03/20/14 13:11	1
Propene	ND		0.86	0.13	ug/m3			03/20/14 13:11	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 13:11	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/20/14 13:11	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 13:11	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 13:11	1
Toluene	ND		0.75	0.45	ug/m3			03/20/14 13:11	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 13:11	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 13:11	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 13:11	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/20/14 13:11	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 13:11	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/20/14 13:11	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-979/1002

Matrix: Air

Analysis Batch: 979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.13		ppb v/v		106	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.39		ppb v/v		119	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1-Dichloroethene	2.00	2.36		ppb v/v		118	70 - 130
1,2,4-Trichlorobenzene	2.00	1.55		ppb v/v		77	60 - 140
1,2,4-Trimethylbenzene	2.00	1.98		ppb v/v		99	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.15		ppb v/v		108	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.09		ppb v/v		105	60 - 140
1,2-Dichlorobenzene	2.00	1.86		ppb v/v		93	70 - 130
1,2-Dichloroethane	2.00	2.12		ppb v/v		106	70 - 130
1,2-Dichloropropane	2.00	2.15		ppb v/v		107	70 - 130
1,3,5-Trimethylbenzene	2.00	2.07		ppb v/v		103	70 - 130
1,3-Butadiene	2.00	2.25		ppb v/v		113	60 - 140
1,3-Dichlorobenzene	2.00	1.93		ppb v/v		96	70 - 130
1,4-Dichlorobenzene	2.00	1.93		ppb v/v		96	70 - 130
1,4-Dioxane	2.00	1.81		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	2.06		ppb v/v		103	70 - 130
2,3-Dimethylpentane	2.00	2.13		ppb v/v		106	20 - 180
2-Butanone (MEK)	2.00	1.64		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.65		ppb v/v		83	60 - 140
2-Methylbutane	2.00	2.17		ppb v/v		109	70 - 130
2-Methylpentane	2.00	2.15		ppb v/v		108	20 - 180
4-Ethyltoluene	2.00	2.00		ppb v/v		100	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.92		ppb v/v		96	60 - 140
Acetone	2.00	ND *		ppb v/v		0	60 - 140
Benzene	2.00	2.12		ppb v/v		106	70 - 130
Benzyl chloride	2.00	2.01		ppb v/v		100	70 - 130
Bromodichloromethane	2.00	2.06		ppb v/v		103	70 - 130
Bromoform	2.00	2.11		ppb v/v		106	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.10		ppb v/v		105	70 - 130
Carbon tetrachloride	2.00	2.09		ppb v/v		104	70 - 130
Chlorobenzene	2.00	2.11		ppb v/v		106	70 - 130
Chloroethane	2.00	2.06		ppb v/v		103	70 - 130
Chloroform	2.00	2.18		ppb v/v		109	70 - 130
Chloromethane	2.00	2.25		ppb v/v		113	60 - 140
cis-1,2-Dichloroethene	2.00	2.27		ppb v/v		113	70 - 130
cis-1,3-Dichloropropene	2.00	2.20		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.96		ppb v/v		98	70 - 130
Dibromochloromethane	2.00	2.15		ppb v/v		108	70 - 130
Dichlorodifluoromethane	2.00	2.23		ppb v/v		112	60 - 140
Ethanol	10.0	9.99		ppb v/v		100	20 - 180
Ethylbenzene	2.00	2.18		ppb v/v		109	70 - 130
Heptane	2.00	2.02		ppb v/v		101	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-979/1002

Matrix: Air

Analysis Batch: 979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Hexachlorobutadiene	2.00	1.46		ppb v/v		73	60 - 140
Hexane	2.00	2.02		ppb v/v		101	70 - 130
Indane	2.00	2.01		ppb v/v		100	20 - 180
Indene	2.00	1.98		ppb v/v		99	20 - 180
Isopropyl alcohol	2.00	1.82		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	2.02		ppb v/v		101	60 - 140
Methylene Chloride	2.00	2.25		ppb v/v		113	70 - 130
m-Xylene & p-Xylene	4.00	4.27		ppb v/v		107	70 - 130
Naphthalene	2.00	1.59		ppb v/v		80	40 - 140
o-Xylene	2.00	2.13		ppb v/v		106	70 - 130
Propene	2.00	2.02		ppb v/v		101	60 - 140
Styrene	2.00	2.29		ppb v/v		114	70 - 130
Tetrachloroethene	2.00	2.08		ppb v/v		104	70 - 130
Tetrahydrofuran	2.00	2.09		ppb v/v		104	60 - 140
Thiophene	2.00	2.14		ppb v/v		107	20 - 180
Toluene	2.00	2.14		ppb v/v		107	70 - 130
trans-1,2-Dichloroethene	2.00	2.03		ppb v/v		102	70 - 130
trans-1,3-Dichloropropene	2.00	2.18		ppb v/v		109	70 - 130
Trichloroethene	2.00	2.10		ppb v/v		105	70 - 130
Trichlorofluoromethane	2.00	1.97		ppb v/v		98	60 - 140
Vinyl chloride	2.00	2.23		ppb v/v		111	70 - 130
Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	11	11.6		ug/m3		106	70 - 130
1,1,2,2-Tetrachloroethane	14	14.4		ug/m3		105	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	18.3		ug/m3		119	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	9.00		ug/m3		111	70 - 130
1,1-Dichloroethene	7.9	9.34		ug/m3		118	70 - 130
1,2,4-Trichlorobenzene	15	11.5		ug/m3		77	60 - 140
1,2,4-Trimethylbenzene	9.8	9.73		ug/m3		99	70 - 130
1,2-Dibromoethane (EDB)	15	16.5		ug/m3		108	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	14.6		ug/m3		105	60 - 140
1,2-Dichlorobenzene	12	11.2		ug/m3		93	70 - 130
1,2-Dichloroethane	8.1	8.56		ug/m3		106	70 - 130
1,2-Dichloropropane	9.2	9.93		ug/m3		107	70 - 130
1,3,5-Trimethylbenzene	9.8	10.2		ug/m3		103	70 - 130
1,3-Butadiene	4.4	4.98		ug/m3		113	60 - 140
1,3-Dichlorobenzene	12	11.6		ug/m3		96	70 - 130
1,4-Dichlorobenzene	12	11.6		ug/m3		96	70 - 130
1,4-Dioxane	7.2	6.53		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	9.64		ug/m3		103	70 - 130
2,3-Dimethylpentane	8.2	8.73		ug/m3		106	20 - 180
2-Butanone (MEK)	5.9	4.84		ug/m3		82	60 - 140
2-Hexanone	8.2	6.77		ug/m3		83	60 - 140
2-Methylbutane	5.9	6.41		ug/m3		109	70 - 130
2-Methylpentane	7.0	7.58		ug/m3		108	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-979/1002

Matrix: Air

Analysis Batch: 979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
4-Ethyltoluene	9.8	9.83		ug/m3		100	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.88		ug/m3		96	60 - 140
Acetone	4.8	ND	*	ug/m3		0	60 - 140
Benzene	6.4	6.77		ug/m3		106	70 - 130
Benzyl chloride	10	10.4		ug/m3		100	70 - 130
Bromodichloromethane	13	13.8		ug/m3		103	70 - 130
Bromoform	21	21.8		ug/m3		106	60 - 140
Bromomethane	7.8	7.68		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.55		ug/m3		105	70 - 130
Carbon tetrachloride	13	13.1		ug/m3		104	70 - 130
Chlorobenzene	9.2	9.73		ug/m3		106	70 - 130
Chloroethane	5.3	5.43		ug/m3		103	70 - 130
Chloroform	9.8	10.7		ug/m3		109	70 - 130
Chloromethane	4.1	4.65		ug/m3		113	60 - 140
cis-1,2-Dichloroethene	7.9	8.99		ug/m3		113	70 - 130
cis-1,3-Dichloropropene	9.1	9.98		ug/m3		110	70 - 130
Cyclohexane	6.9	6.76		ug/m3		98	70 - 130
Dibromochloromethane	17	18.3		ug/m3		108	70 - 130
Dichlorodifluoromethane	9.9	11.0		ug/m3		112	60 - 140
Ethanol	19	18.8		ug/m3		100	20 - 180
Ethylbenzene	8.7	9.45		ug/m3		109	70 - 130
Heptane	8.2	8.27		ug/m3		101	70 - 130
Hexachlorobutadiene	21	15.6		ug/m3		73	60 - 140
Hexane	7.0	7.13		ug/m3		101	70 - 130
Indane	9.7	9.70		ug/m3		100	20 - 180
Indene	9.5	9.40		ug/m3		99	20 - 180
Isopropyl alcohol	4.9	4.48		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	7.28		ug/m3		101	60 - 140
Methylene Chloride	6.9	7.82		ug/m3		113	70 - 130
m-Xylene & p-Xylene	17	18.5		ug/m3		107	70 - 130
Naphthalene	10	8.34		ug/m3		80	40 - 140
o-Xylene	8.7	9.25		ug/m3		106	70 - 130
Propene	3.4	3.48		ug/m3		101	60 - 140
Styrene	8.5	9.74		ug/m3		114	70 - 130
Tetrachloroethene	14	14.1		ug/m3		104	70 - 130
Tetrahydrofuran	5.9	6.16		ug/m3		104	60 - 140
Thiophene	6.9	7.38		ug/m3		107	20 - 180
Toluene	7.5	8.06		ug/m3		107	70 - 130
trans-1,2-Dichloroethene	7.9	8.05		ug/m3		102	70 - 130
trans-1,3-Dichloropropene	9.1	9.90		ug/m3		109	70 - 130
Trichloroethene	11	11.3		ug/m3		105	70 - 130
Trichlorofluoromethane	11	11.0		ug/m3		98	60 - 140
Vinyl chloride	5.1	5.69		ug/m3		111	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		60 - 140

QC Association Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Air - GC/MS VOA

Analysis Batch: 976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1065-1	SAMPLE 2- ROOM # 4	Total/NA	Air	TO-15	
140-1065-2	SAMPLE 3- ROOM # 2	Total/NA	Air	TO-15	
140-1065-3	SAMPLE 4- AMBIENT	Total/NA	Air	TO-15	
140-1065-4	SAMPLE 5- ROOM #11	Total/NA	Air	TO-15	
LCS 140-976/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-976/1004	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1065-1 - DL	SAMPLE 2- ROOM # 4	Total/NA	Air	TO-15	
140-1065-2 - DL	SAMPLE 3- ROOM # 2	Total/NA	Air	TO-15	
LCS 140-979/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-979/5	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 02:43	AFB	TAL KNX
	Instrument ID: MJ									
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	979	03/21/14 02:10	HMT	TAL KNX
	Instrument ID: MR									

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 03:37	AFB	TAL KNX
	Instrument ID: MJ									
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	979	03/21/14 02:57	HMT	TAL KNX
	Instrument ID: MR									

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 04:32	AFB	TAL KNX
	Instrument ID: MJ									

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	976	03/20/14 05:26	AFB	TAL KNX
	Instrument ID: MJ									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1065-1	SAMPLE 2- ROOM # 4	Air	03/15/14 15:45	03/18/14 10:05
140-1065-2	SAMPLE 3- ROOM # 2	Air	03/15/14 15:25	03/18/14 10:05
140-1065-3	SAMPLE 4- AMBIENT	Air	03/15/14 14:57	03/18/14 10:05
140-1065-4	SAMPLE 5- ROOM #11	Air	03/15/14 15:28	03/18/14 10:05

Method T015

Volatile Organic Compounds (GC/MS)
by Method T015

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville

Job No.: 140-1065-1

SDG No.: _____

Matrix: Air

Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
SAMPLE 2- ROOM # 4	140-1065-1	97
SAMPLE 2- ROOM # 4 DL	140-1065-1 DL	97
SAMPLE 3- ROOM # 2	140-1065-2	95
SAMPLE 3- ROOM # 2 DL	140-1065-2 DL	97
SAMPLE 4- AMBIENT	140-1065-3	94
SAMPLE 5- ROOM #11	140-1065-4	97
	MB 140-976/1004	93
	MB 140-979/5	94
	LCS 140-976/1002	98
	LCS 140-979/1002	96

BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
60-140

Column to be used to flag recovery values

FORM II TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC19-LCS.d
 Lab ID: LCS 140-976/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.04	102	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.36	118	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.34	117	70-130	
1,1,2-Trichloroethane	2.00	2.19	109	70-130	
1,1-Dichloroethane	2.00	2.05	102	70-130	
1,1-Dichloroethene	2.00	2.37	118	70-130	
1,2,4-Trichlorobenzene	2.00	2.03	101	60-140	
1,2,4-Trimethylbenzene	2.00	2.38	119	70-130	
1,2-Dibromoethane (EDB)	2.00	2.20	110	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.23	112	60-140	
1,2-Dichlorobenzene	2.00	2.08	104	70-130	
1,2-Dichloroethane	2.00	2.10	105	70-130	
1,2-Dichloropropane	2.00	2.08	104	70-130	
1,3,5-Trimethylbenzene	2.00	2.37	118	70-130	
1,3-Butadiene	2.00	2.09	105	60-140	
1,3-Dichlorobenzene	2.00	2.08	104	70-130	
1,4-Dichlorobenzene	2.00	2.07	104	70-130	
1,4-Dioxane	2.00	2.14	107	60-140	
2,2,4-Trimethylpentane	2.00	2.13	107	70-130	
2,3-Dimethylpentane	2.00	2.10	105	20-180	
2-Butanone (MEK)	2.00	2.15	107	60-140	
2-Hexanone	2.00	2.27	113	60-140	
2-Methylbutane	2.00	1.98	99	70-130	
2-Methylpentane	2.00	1.95	97	20-180	
4-Ethyltoluene	2.00	2.43	122	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	2.23	112	60-140	
Acetone	2.00	1.42 J	71	60-140	
Benzene	2.00	2.02	101	70-130	
Benzyl chloride	2.00	2.19	110	70-130	
Bromodichloromethane	2.00	2.20	110	70-130	
Bromoform	2.00	2.18	109	60-140	
Bromomethane	2.00	1.97	99	70-130	
Carbon disulfide	2.00	2.06	103	70-130	
Carbon tetrachloride	2.00	2.15	108	70-130	
Chlorobenzene	2.00	2.12	106	70-130	
Chloroethane	2.00	1.94	97	70-130	
Chloroform	2.00	2.05	102	70-130	
Chloromethane	2.00	2.05	102	60-140	
cis-1,2-Dichloroethene	2.00	2.15	107	70-130	
cis-1,3-Dichloropropene	2.00	2.07	103	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC19-LCS.d
 Lab ID: LCS 140-976/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	2.16	108	70-130	
Dibromochloromethane	2.00	2.18	109	70-130	
Dichlorodifluoromethane	2.00	2.16	108	60-140	
Ethanol	10.0	10.6	106	20-180	
Ethylbenzene	2.00	2.41	121	70-130	
Heptane	2.00	2.16	108	70-130	
Hexachlorobutadiene	2.00	1.81	91	60-140	
Hexane	2.00	1.84	92	70-130	
Indane	2.00	2.35	118	20-180	
Indene	2.00	2.42	121	20-180	
Isopropyl alcohol	2.00	1.99	100	60-140	
Methyl tert-butyl ether	2.00	2.26	113	60-140	
Methylene Chloride	2.00	2.20	110	70-130	
m-Xylene & p-Xylene	4.00	4.65	116	70-130	
Naphthalene	2.00	2.05	102	40-140	
o-Xylene	2.00	2.36	118	70-130	
Propene	2.00	2.03	101	60-140	
Styrene	2.00	2.40	120	70-130	
Tetrachloroethene	2.00	2.19	110	70-130	
Tetrahydrofuran	2.00	2.20	110	60-140	
Thiophene	2.00	2.11	105	20-180	
Toluene	2.00	2.29	114	70-130	
trans-1,2-Dichloroethene	2.00	1.96	98	70-130	
trans-1,3-Dichloropropene	2.00	2.25	113	70-130	
Trichloroethene	2.00	2.21	111	70-130	
Trichlorofluoromethane	2.00	2.10	105	60-140	
Vinyl chloride	2.00	2.05	102	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: RCCVC20-LCS.d
 Lab ID: LCS 140-979/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.13	106	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.10	105	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.39	119	70-130	
1,1,2-Trichloroethane	2.00	2.11	106	70-130	
1,1-Dichloroethane	2.00	2.22	111	70-130	
1,1-Dichloroethene	2.00	2.36	118	70-130	
1,2,4-Trichlorobenzene	2.00	1.55	77	60-140	
1,2,4-Trimethylbenzene	2.00	1.98	99	70-130	
1,2-Dibromoethane (EDB)	2.00	2.15	108	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.09	105	60-140	
1,2-Dichlorobenzene	2.00	1.86	93	70-130	
1,2-Dichloroethane	2.00	2.12	106	70-130	
1,2-Dichloropropane	2.00	2.15	107	70-130	
1,3,5-Trimethylbenzene	2.00	2.07	103	70-130	
1,3-Butadiene	2.00	2.25	113	60-140	
1,3-Dichlorobenzene	2.00	1.93	96	70-130	
1,4-Dichlorobenzene	2.00	1.93	96	70-130	
1,4-Dioxane	2.00	1.81	91	60-140	
2,2,4-Trimethylpentane	2.00	2.06	103	70-130	
2,3-Dimethylpentane	2.00	2.13	106	20-180	
2-Butanone (MEK)	2.00	1.64	82	60-140	
2-Hexanone	2.00	1.65	83	60-140	
2-Methylbutane	2.00	2.17	109	70-130	
2-Methylpentane	2.00	2.15	108	20-180	
4-Ethyltoluene	2.00	2.00	100	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.92	96	60-140	
Acetone	2.00	ND	0	60-140	*
Benzene	2.00	2.12	106	70-130	
Benzyl chloride	2.00	2.01	100	70-130	
Bromodichloromethane	2.00	2.06	103	70-130	
Bromoform	2.00	2.11	106	60-140	
Bromomethane	2.00	1.98	99	70-130	
Carbon disulfide	2.00	2.10	105	70-130	
Carbon tetrachloride	2.00	2.09	104	70-130	
Chlorobenzene	2.00	2.11	106	70-130	
Chloroethane	2.00	2.06	103	70-130	
Chloroform	2.00	2.18	109	70-130	
Chloromethane	2.00	2.25	113	60-140	
cis-1,2-Dichloroethene	2.00	2.27	113	70-130	
cis-1,3-Dichloropropene	2.00	2.20	110	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: RCCVC20-LCS.d
 Lab ID: LCS 140-979/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.96	98	70-130	
Dibromochloromethane	2.00	2.15	108	70-130	
Dichlorodifluoromethane	2.00	2.23	112	60-140	
Ethanol	10.0	9.99	100	20-180	
Ethylbenzene	2.00	2.18	109	70-130	
Heptane	2.00	2.02	101	70-130	
Hexachlorobutadiene	2.00	1.46	73	60-140	
Hexane	2.00	2.02	101	70-130	
Indane	2.00	2.01	100	20-180	
Indene	2.00	1.98	99	20-180	
Isopropyl alcohol	2.00	1.82	91	60-140	
Methyl tert-butyl ether	2.00	2.02	101	60-140	
Methylene Chloride	2.00	2.25	113	70-130	
m-Xylene & p-Xylene	4.00	4.27	107	70-130	
Naphthalene	2.00	1.59	80	40-140	
o-Xylene	2.00	2.13	106	70-130	
Propene	2.00	2.02	101	60-140	
Styrene	2.00	2.29	114	70-130	
Tetrachloroethene	2.00	2.08	104	70-130	
Tetrahydrofuran	2.00	2.09	104	60-140	
Thiophene	2.00	2.14	107	20-180	
Toluene	2.00	2.14	107	70-130	
trans-1,2-Dichloroethene	2.00	2.03	102	70-130	
trans-1,3-Dichloropropene	2.00	2.18	109	70-130	
Trichloroethene	2.00	2.10	105	70-130	
Trichlorofluoromethane	2.00	1.97	98	60-140	
Vinyl chloride	2.00	2.23	111	70-130	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab File ID: 140-1071-a-10-MB.d Lab Sample ID: MB 140-976/1004
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MJ Date Analyzed: 03/19/2014 13:17
 GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-976/1002	JCCVC19-LCS .d	03/19/2014 11:06
SAMPLE 2- ROOM # 4	140-1065-1	JC19P111.D	03/20/2014 02:43
SAMPLE 3- ROOM # 2	140-1065-2	JC19P112.D	03/20/2014 03:37
SAMPLE 4- AMBIENT	140-1065-3	JC19P113.D	03/20/2014 04:32
SAMPLE 5- ROOM #11	140-1065-4	JC19P114.D	03/20/2014 05:26

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
SDG No.: _____
Lab File ID: 200MLBLK.D Lab Sample ID: MB 140-979/5
Matrix: Air Heated Purge: (Y/N) N
Instrument ID: MR Date Analyzed: 03/20/2014 13:11
GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SAMPLE 2- ROOM # 4 DL	140-1065-1 DL	RC20P114.D	03/21/2014 02:10
SAMPLE 3- ROOM # 2 DL	140-1065-2 DL	RC20P115.D	03/21/2014 02:57

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab File ID: JBFB11.D BFB Injection Date: 03/11/2014
 Instrument ID: MJ BFB Injection Time: 12:12
 Analysis Batch No.: 946

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	41.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	111.2	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	108.1	(97.2)1
177	5.0 - 9.0 % of mass 176	7.2	(6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-946/2	JICC111.D	03/11/2014	12:40
	IC 140-946/3	JICC112.D	03/11/2014	13:35
	IC 140-946/4	JICC113.D	03/11/2014	14:29
	IC 140-946/5	JICC114.D	03/11/2014	15:23
	IC 140-946/6	JICC115.D	03/11/2014	16:17
	ICIS 140-946/7	JICC116.D	03/11/2014	17:11
	IC 140-946/8	JICC117.D	03/11/2014	18:06
	IC 140-946/9	JICC118.D	03/11/2014	19:02
	IC 140-946/10	JICC119.D	03/11/2014	19:57
	ICV 140-946/14	JLCS11.D	03/11/2014	23:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab File ID: JBFBC19.D BFB Injection Date: 03/19/2014
 Instrument ID: MJ BFB Injection Time: 10:38
 Analysis Batch No.: 976

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	43.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	110.0	
175	5.0 - 9.0 % of mass 174	8.5	(7.8)1
176	95.0 - 101.0 % of mass 174	107.8	(98.0)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-976/2	JCCVC19.D	03/19/2014	11:06
	LCS 140-976/1002	JCCVC19-LCS.d	03/19/2014	11:06
	MB 140-976/1004	140-1071-a-10-MB.d	03/19/2014	13:17
SAMPLE 2- ROOM # 4	140-1065-1	JC19P111.D	03/20/2014	02:43
SAMPLE 3- ROOM # 2	140-1065-2	JC19P112.D	03/20/2014	03:37
SAMPLE 4- AMBIENT	140-1065-3	JC19P113.D	03/20/2014	04:32
SAMPLE 5- ROOM #11	140-1065-4	JC19P114.D	03/20/2014	05:26

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab File ID: 140-0000372-001.D BFB Injection Date: 01/21/2014
 Instrument ID: MR BFB Injection Time: 17:09
 Analysis Batch No.: 722

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	24.5
75	30.0 - 60.0 % of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.4 (0.5)1
174	50.0 - 120.00 % of mass 95	80.8
175	5.0 - 9.0 % of mass 174	6.0 (7.4)1
176	95.0 - 101.0 % of mass 174	77.5 (95.9)1
177	5.0 - 9.0 % of mass 176	4.9 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-722/2	140-0000372-002.D	01/21/2014	17:35
	IC 140-722/3	140-0000372-003.D	01/21/2014	18:23
	IC 140-722/4	140-0000372-004.D	01/21/2014	19:12
	IC 140-722/5	140-0000372-005.D	01/21/2014	20:00
	IC 140-722/6	140-0000372-006.D	01/21/2014	20:48
	IC 140-722/7	140-0000372-007.D	01/21/2014	21:36
	IC 140-722/8	140-0000372-008.D	01/21/2014	22:24
	IC 140-722/9	140-0000372-009.D	01/21/2014	23:13
	IC 140-722/10	140-0000372-010.D	01/22/2014	00:00

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab File ID: RBFA24a.D BFB Injection Date: 01/24/2014
 Instrument ID: MR BFB Injection Time: 09:38
 Analysis Batch No.: 722

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	24.2
75	30.0 - 60.0 % of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.6 (0.7)1
174	50.0 - 120.00 % of mass 95	80.3
175	5.0 - 9.0 % of mass 174	6.1 (7.6)1
176	95.0 - 101.0 % of mass 174	77.4 (96.4)1
177	5.0 - 9.0 % of mass 176	5.0 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 140-722/16	RICVA24a.D	01/24/2014	11:35

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab File ID: RBFBFC20.D BFB Injection Date: 03/20/2014
 Instrument ID: MR BFB Injection Time: 09:28
 Analysis Batch No.: 979

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	25.6
75	30.0 - 60.0 % of mass 95	51.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	0.6 (0.7)1
174	50.0 - 120.00 % of mass 95	79.9
175	5.0 - 9.0 % of mass 174	5.8 (7.3)1
176	95.0 - 101.0 % of mass 174	76.8 (96.1)1
177	5.0 - 9.0 % of mass 176	5.1 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-979/2	RCCVC20.D	03/20/2014	09:54
	LCS 140-979/1002	RCCVC20-LCS. d	03/20/2014	09:54
	MB 140-979/5	200MLBLK.D	03/20/2014	13:11
SAMPLE 2- ROOM # 4 DL	140-1065-1 DL	RC20P114.D	03/21/2014	02:10
SAMPLE 3- ROOM # 2 DL	140-1065-2 DL	RC20P115.D	03/21/2014	02:57

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Sample No.: ICIS 140-946/7 Date Analyzed: 03/11/2014 17:11
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JICC116.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	351204	9.39	1664083	11.55	1450172	16.21
UPPER LIMIT	491686	9.72	2329716	11.88	2030241	16.54
LOWER LIMIT	210722	9.06	998450	11.22	870103	15.88
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-946/14	326764	9.39	1541489	11.55	1315171	16.21

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Sample No.: CCVIS 140-976/2 Date Analyzed: 03/19/2014 11:06
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC19.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	344423	9.39	1458024	11.54	1214604	16.20		
UPPER LIMIT	482192	9.72	2041234	11.87	1700446	16.53		
LOWER LIMIT	206654	9.06	874814	11.21	728762	15.87		
LAB SAMPLE ID	CLIENT SAMPLE ID							
LCS 140-976/1002			344423	9.39	1458024	11.54	1214604	16.20
MB 140-976/1004			389292	9.38	1813244	11.53	1451706	16.20
140-1065-1		SAMPLE 2- ROOM # 4	356419	9.38	1730315	11.53	1493429	16.20
140-1065-2		SAMPLE 3- ROOM # 2	350878	9.38	1698450	11.53	1400844	16.20
140-1065-3		SAMPLE 4- AMBIENT	375151	9.38	1770022	11.53	1443831	16.20
140-1065-4		SAMPLE 5- ROOM #11	364563	9.38	1756539	11.53	1484360	16.20

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Sample No.: IC 140-722/7 Date Analyzed: 01/21/2014 21:36
 Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): 140-0000372-007.D Heated Purge: (Y/N) N
 Calibration ID: 111

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	430788	8.53	2214255	10.82	1832420	17.16
UPPER LIMIT	603103	8.86	3099957	11.15	2565388	17.49
LOWER LIMIT	258473	8.20	1328553	10.49	1099452	16.83
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-722/16		477903	8.52	2450029	10.82	2027022 17.17

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Sample No.: CCVIS 140-979/2 Date Analyzed: 03/20/2014 09:54
 Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): RCCVC20.D Heated Purge: (Y/N) N
 Calibration ID: 111

	CBM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	273173	8.46	1437109	10.76	1222152	17.09	
UPPER LIMIT	382442	8.79	2011953	11.09	1711013	17.42	
LOWER LIMIT	163904	8.13	862265	10.43	733291	16.76	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-979/1002	273173	8.46	1437109	10.76	1222152	17.09	
MB 140-979/5	274446	8.46	1434312	10.76	1184898	17.08	
140-1065-1 DL	SAMPLE 2- ROOM # 4 DL	247345	8.46	1313101	10.76	1133138	17.08
140-1065-2 DL	SAMPLE 3- ROOM # 2 DL	267570	8.46	1351251	10.76	1131125	17.08

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 Lab Sample ID: 140-1065-1
 Matrix: Air Lab File ID: JC19P111.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.10	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.094	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.43	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.72		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.15	J	0.50	0.045
67-64-1	Acetone	58.08	4.8	J	5.0	1.4
71-43-2	Benzene	78.11	0.27		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 Lab Sample ID: 140-1065-1
 Matrix: Air Lab File ID: JC19P111.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.074	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.093	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.61		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.14	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.67		0.20	0.068
64-17-5	Ethanol	46.07	230	E	2.0	2.0
100-41-4	Ethylbenzene	106.17	0.11	J	0.20	0.068
142-82-5	Heptane	100.21	0.42	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.19	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.9		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.40	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.24		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.10	J	0.20	0.061
115-07-1	Propene	42.08	0.81	cn	0.50	0.077
100-42-5	Styrene	104.15	0.082	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.16	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.2		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 Lab Sample ID: 140-1065-1
 Matrix: Air Lab File ID: JC19P111.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 Lab Sample ID: 140-1065-1
 Matrix: Air Lab File ID: JC19P111.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.50	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.44	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.3	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.60	J	2.0	0.18
67-64-1	Acetone	58.08	12	J	12	3.3
71-43-2	Benzene	78.11	0.86		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 Lab Sample ID: 140-1065-1
 Matrix: Air Lab File ID: JC19P111.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.47	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.46	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.3		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.46	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	3.3		0.99	0.34
64-17-5	Ethanol	46.07	420	E	3.8	3.8
100-41-4	Ethylbenzene	106.17	0.46	J	0.87	0.30
142-82-5	Heptane	100.21	1.7	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.67	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	14		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.4	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.0		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.45	J	0.87	0.26
115-07-1	Propene	42.08	1.4	cn	0.86	0.13
100-42-5	Styrene	104.15	0.35	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.1	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	4.6		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 Lab Sample ID: 140-1065-1
 Matrix: Air Lab File ID: JC19P111.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D
 Lims ID: 140-1065-A-1 Lab Sample ID: 140-1065-1
 Client ID: SAMPLE 2- ROOM # 4
 Sample Type: Client
 Inject. Date: 20-Mar-2014 02:43:30 ALS Bottle#: 11 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1065-a-1
 Misc. Info.: J031914,TO15,,140-0000532-018
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:54:17 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:54:17

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.385	-0.008	91	356419	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1730315	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1493429	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	1024159	3.88	
7 Propene	41	3.981	3.973	0.008	81	35401	0.3239	
8 Dichlorodifluoromethane	85	4.030	4.032	-0.002	100	94541	0.2678	
9 Chloromethane	52	4.229	4.231	-0.002	97	9747	0.2430	
17 Ethanol	31	5.122	5.119	0.003	93	2581268	90.2	E
19 2-Methylbutane	43	5.407	5.409	-0.002	92	43775	0.2892	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	90	25349	0.0817	
23 Acetone	58	5.767	5.770	-0.003	98	98147	1.94	
24 Isopropyl alcohol	45	5.864	5.850	0.014	98	313466	2.34	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.582	-0.008	69	5810	0.0270	
31 Methylene Chloride	84	6.757	6.754	0.003	89	15364	0.1611	
39 2-Butanone (MEK)	72	8.602	8.589	0.013	96	5771	0.1711	
40 Hexane	56	8.629	8.637	-0.008	85	7268	0.0758	
43 Chloroform	83	9.388	9.396	-0.008	14	7754	0.0373	
48 Benzene	78	11.018	11.026	-0.008	92	32078	0.1081	
49 Cyclohexane	69	11.018	11.031	-0.013	47	3165	0.0540	
50 Carbon tetrachloride	117	11.050	11.047	0.003	83	7294	0.0297	
53 Isooctane	57	11.760	11.763	-0.003	83	19015	0.0375	
54 n-Heptane	71	12.120	12.123	-0.003	87	17726	0.1688	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.371	0.003	85	10614	0.0585	
65 Toluene	91	14.251	14.253	-0.002	93	134423	0.4852	
73 Tetrachloroethene	129	15.380	15.383	-0.003	81	8311	0.0644	
76 Ethylbenzene	91	16.526	16.529	-0.003	63	13086	0.0428	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	93	23694	0.0960	
80 Styrene	104	17.145	17.147	-0.002	40	5550	0.0327	
82 o-Xylene	91	17.209	17.212	-0.003	67	10421	0.0416	
93 1,2,4-Trimethylbenzene	105	18.942	18.939	0.003	72	11813	0.0407	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Worklist Smp#: 18

Client ID: SAMPLE 2- ROOM # 4

Purge Vol: 500.000 mL

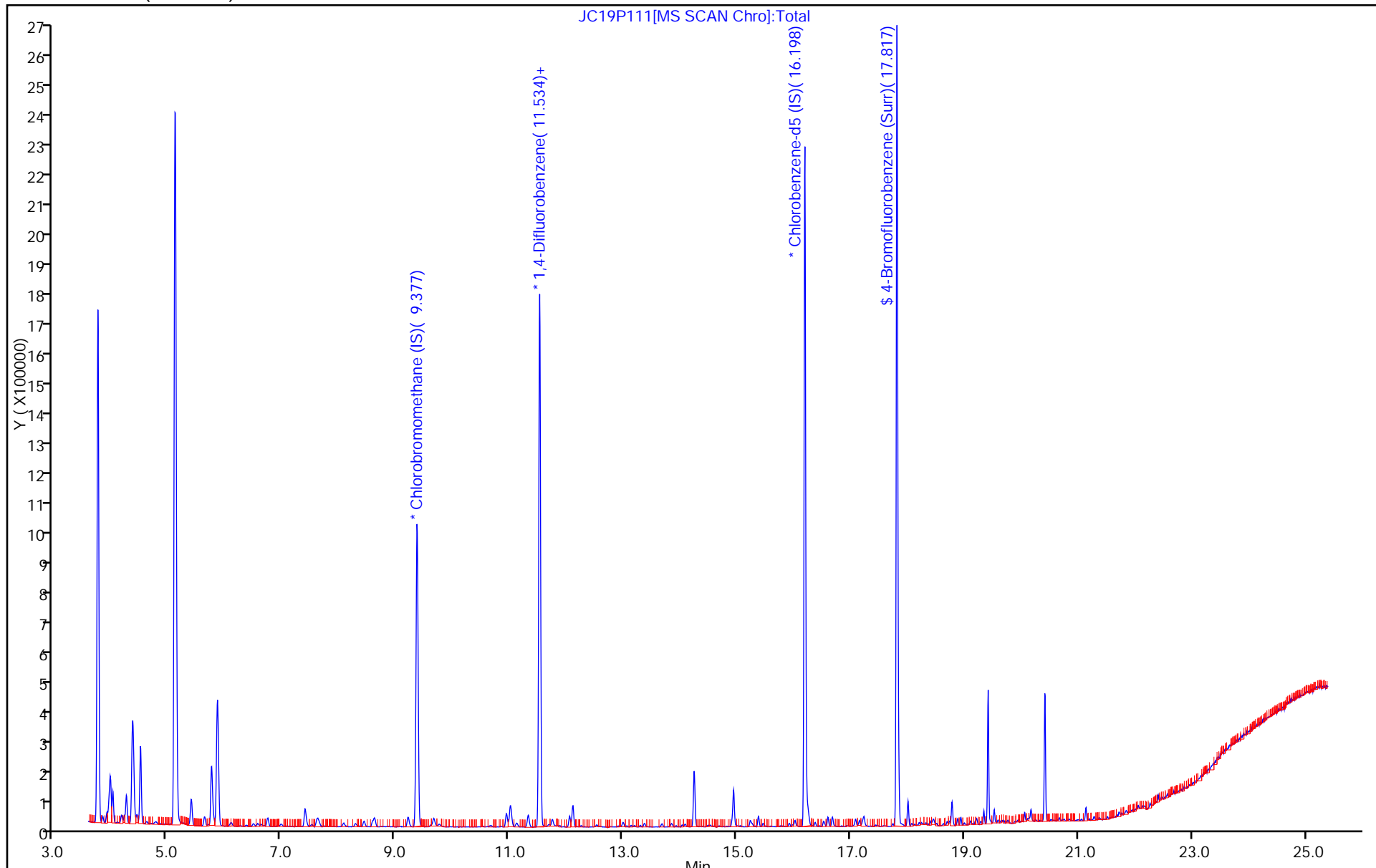
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

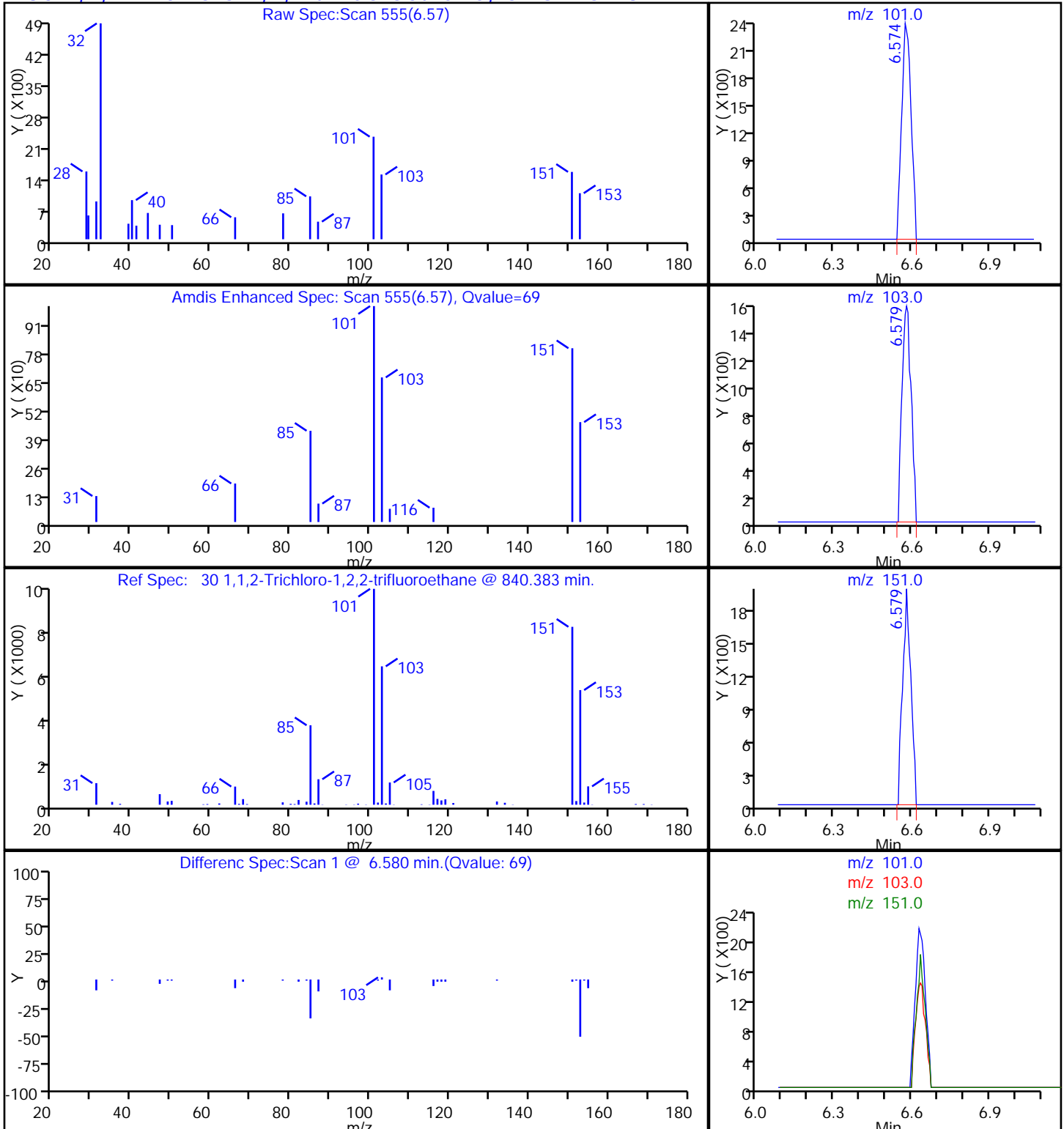
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

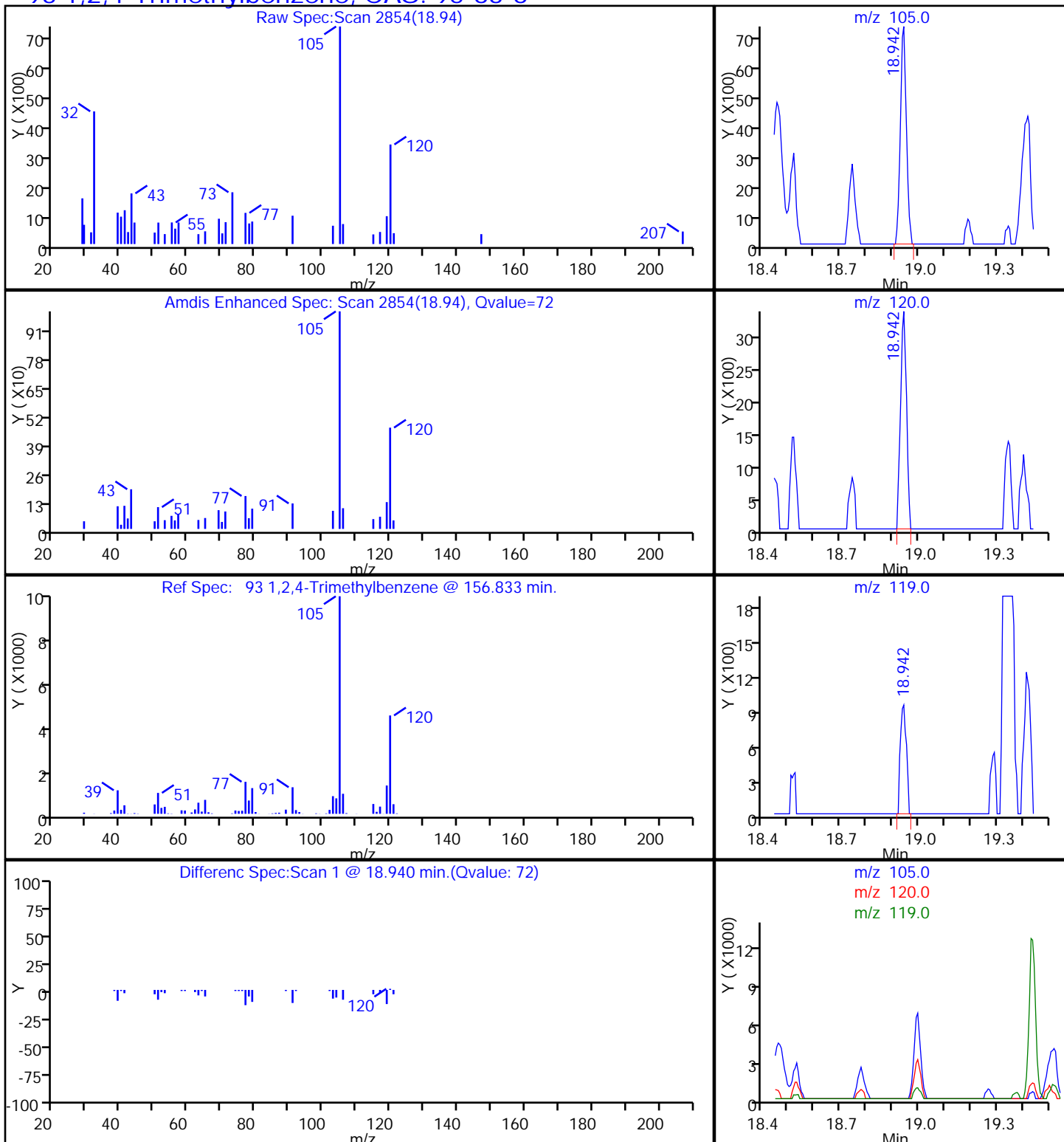
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

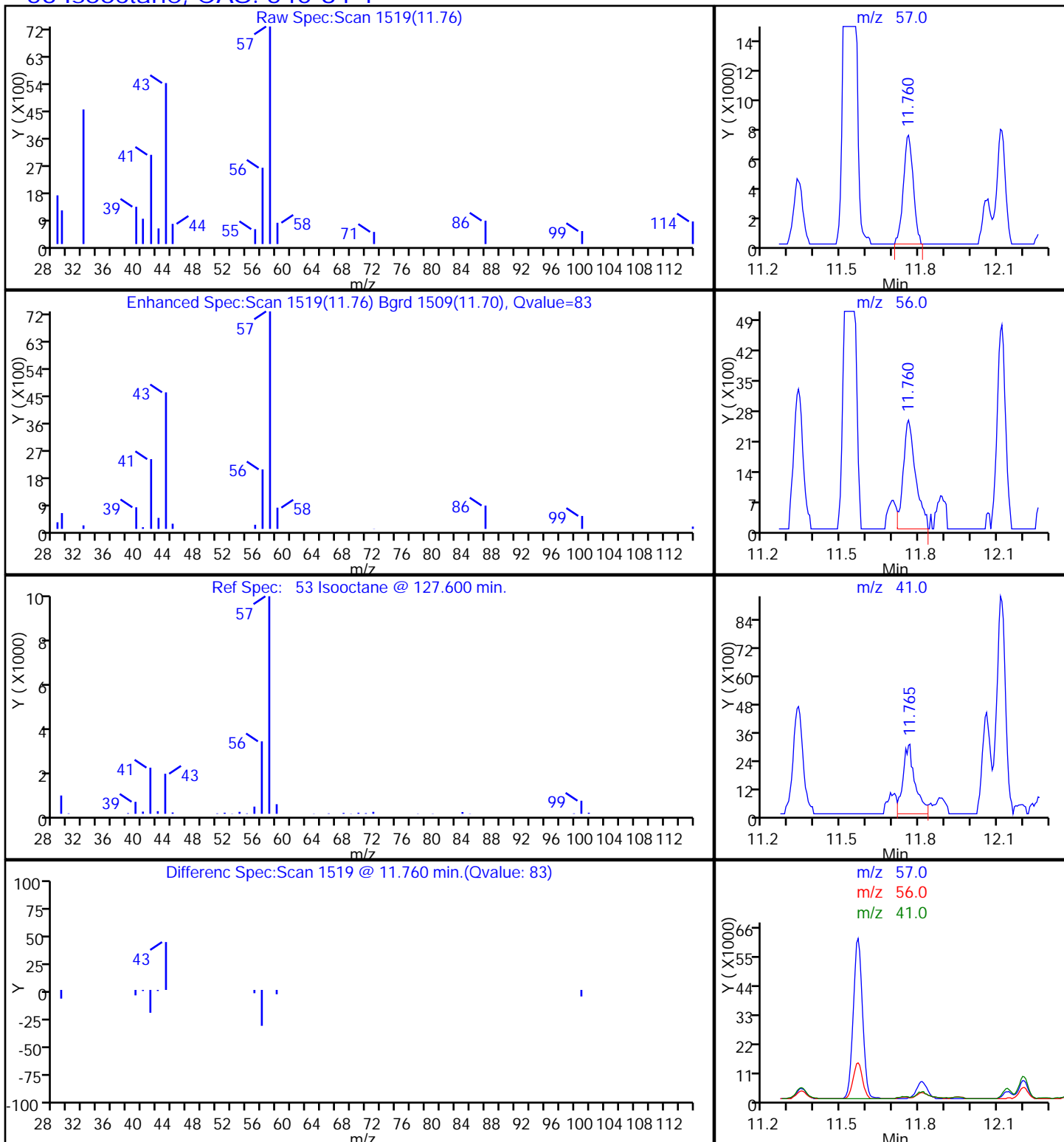
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

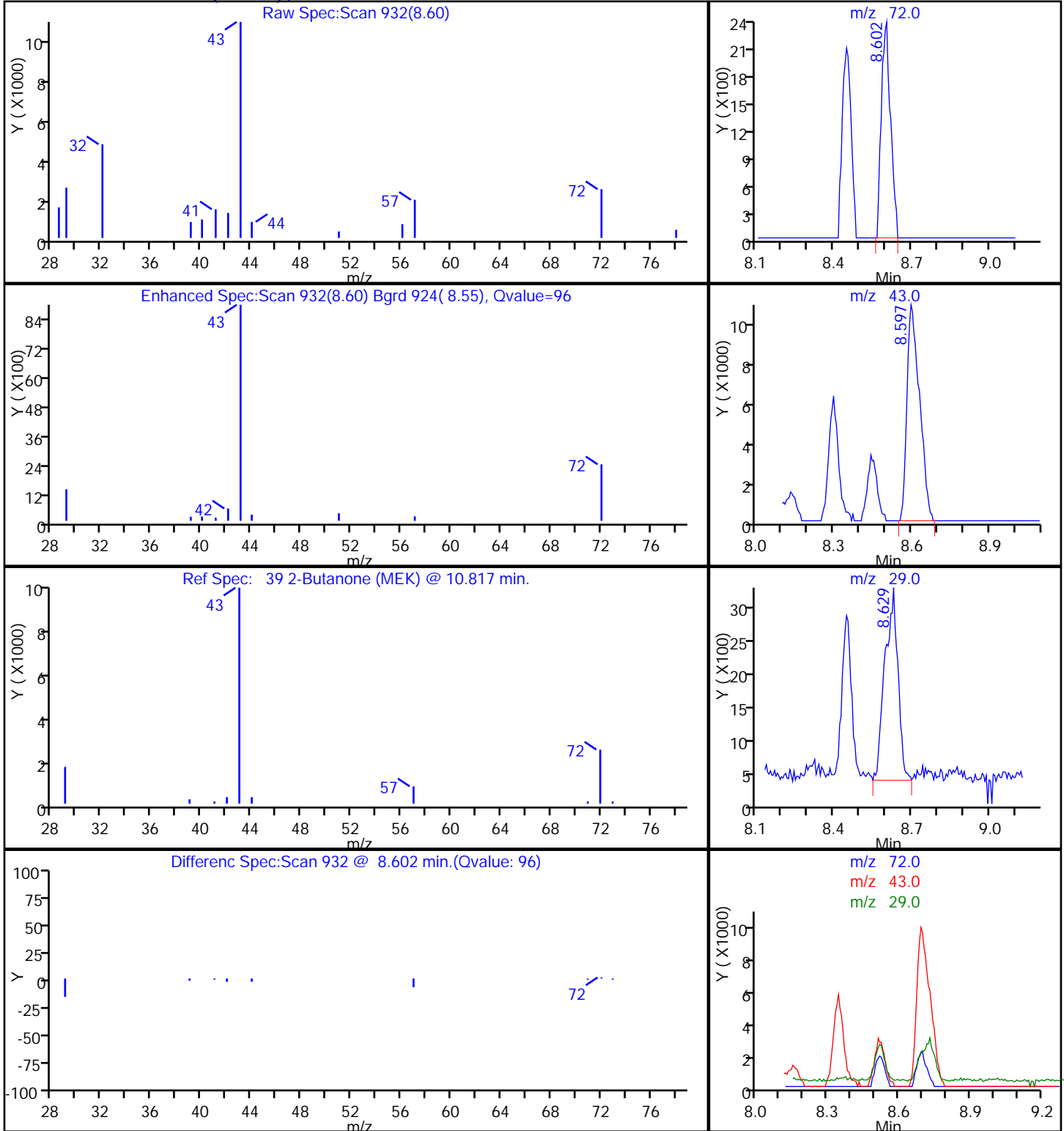
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

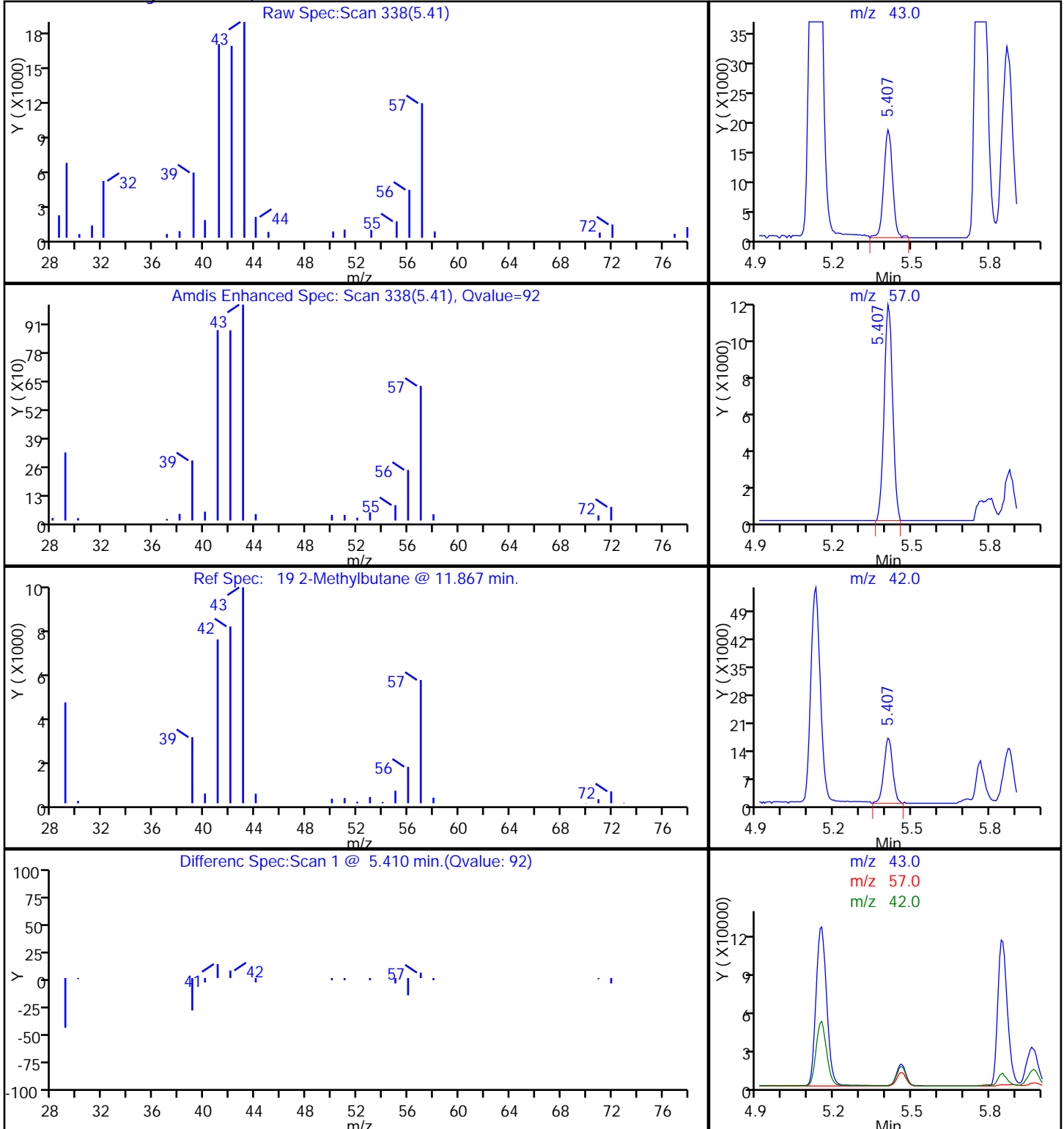
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

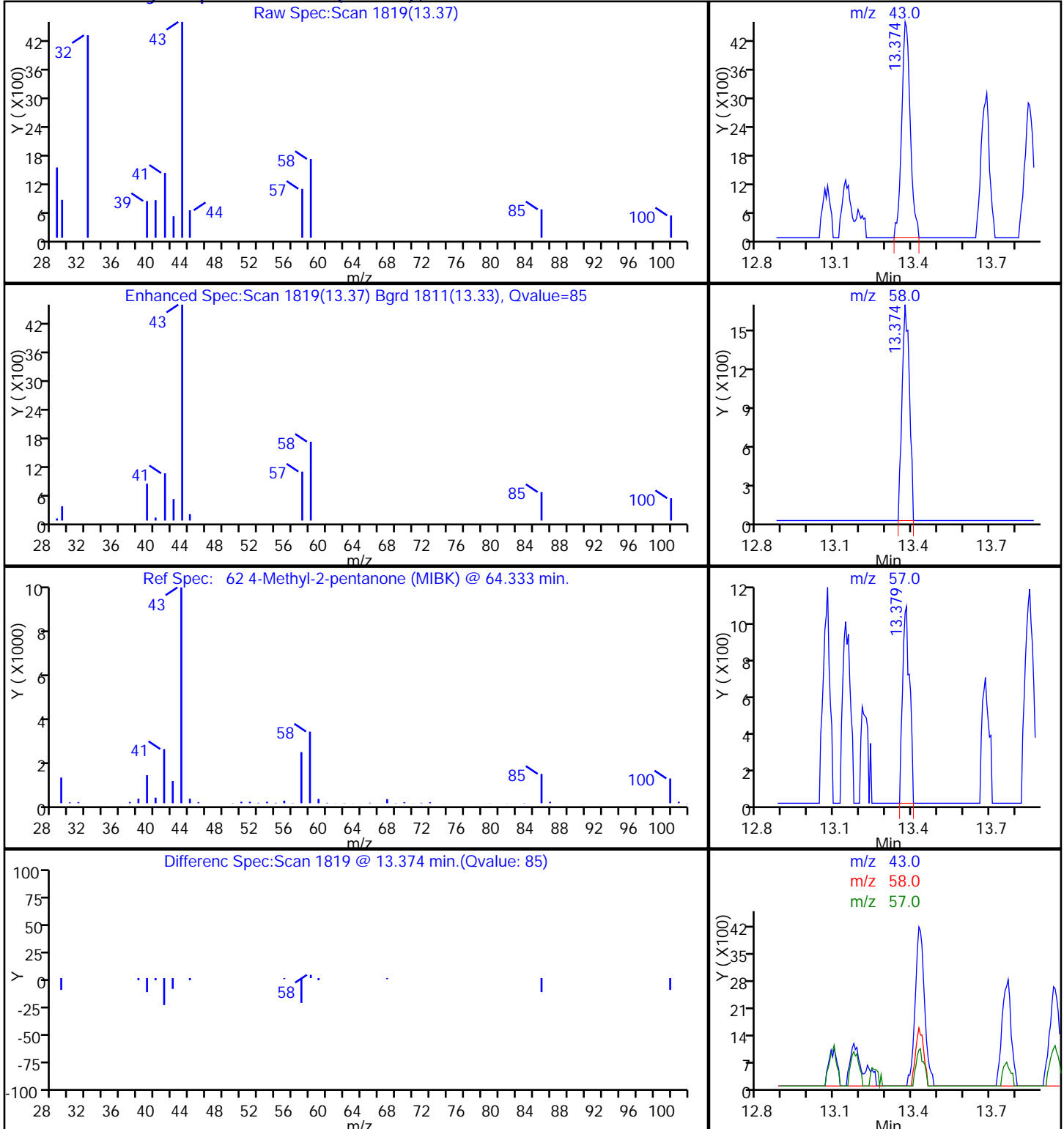
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

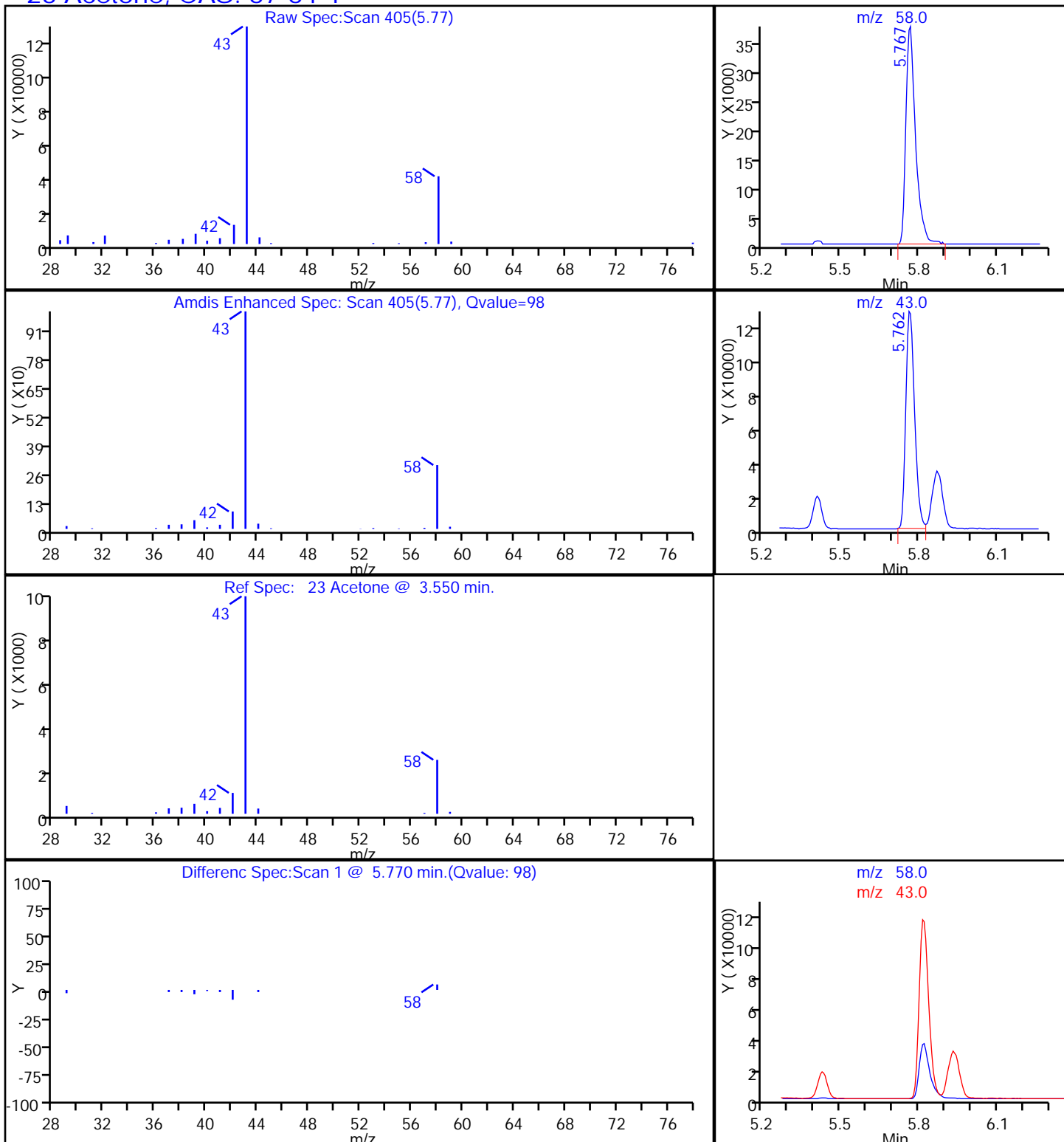
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

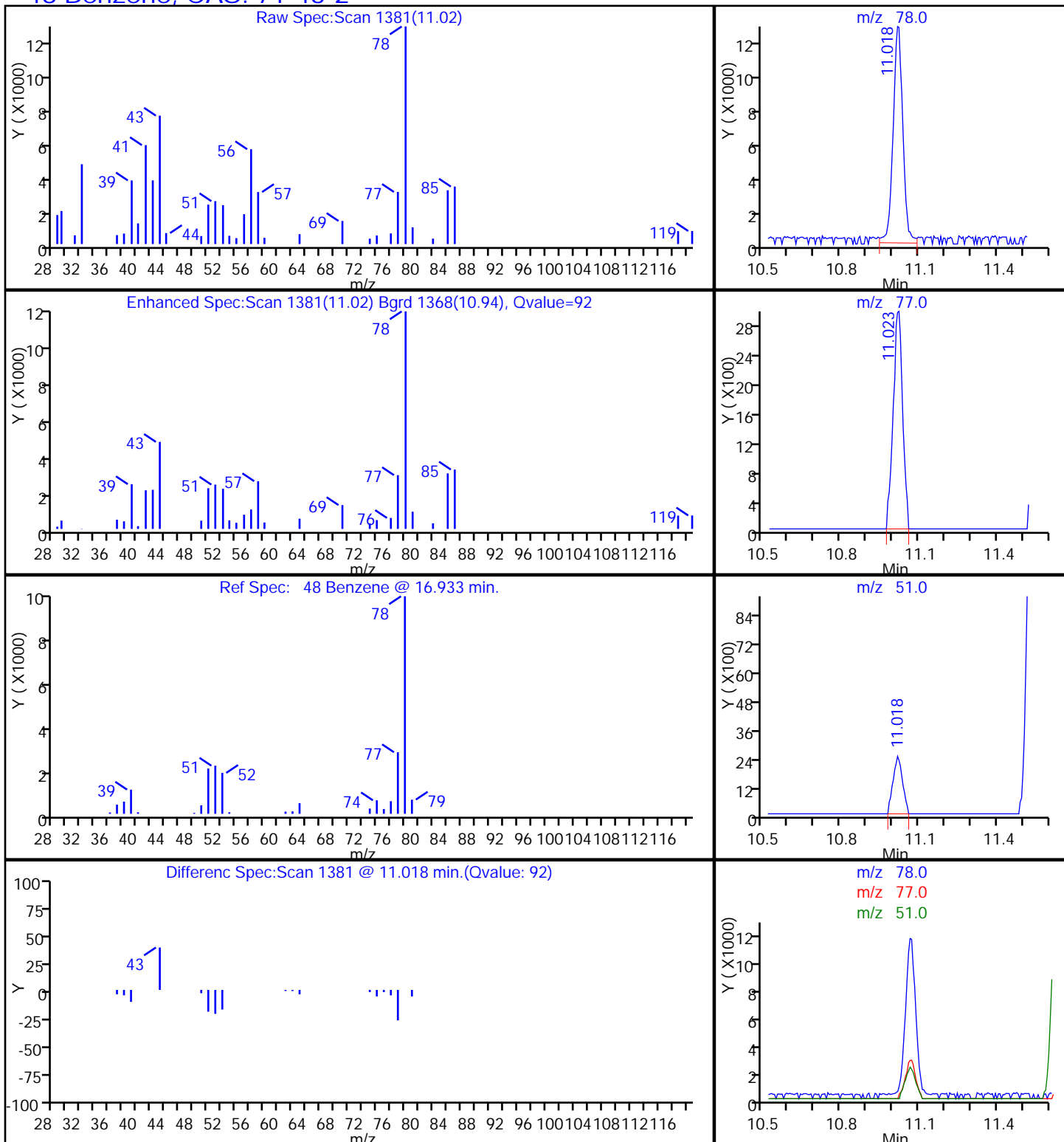
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

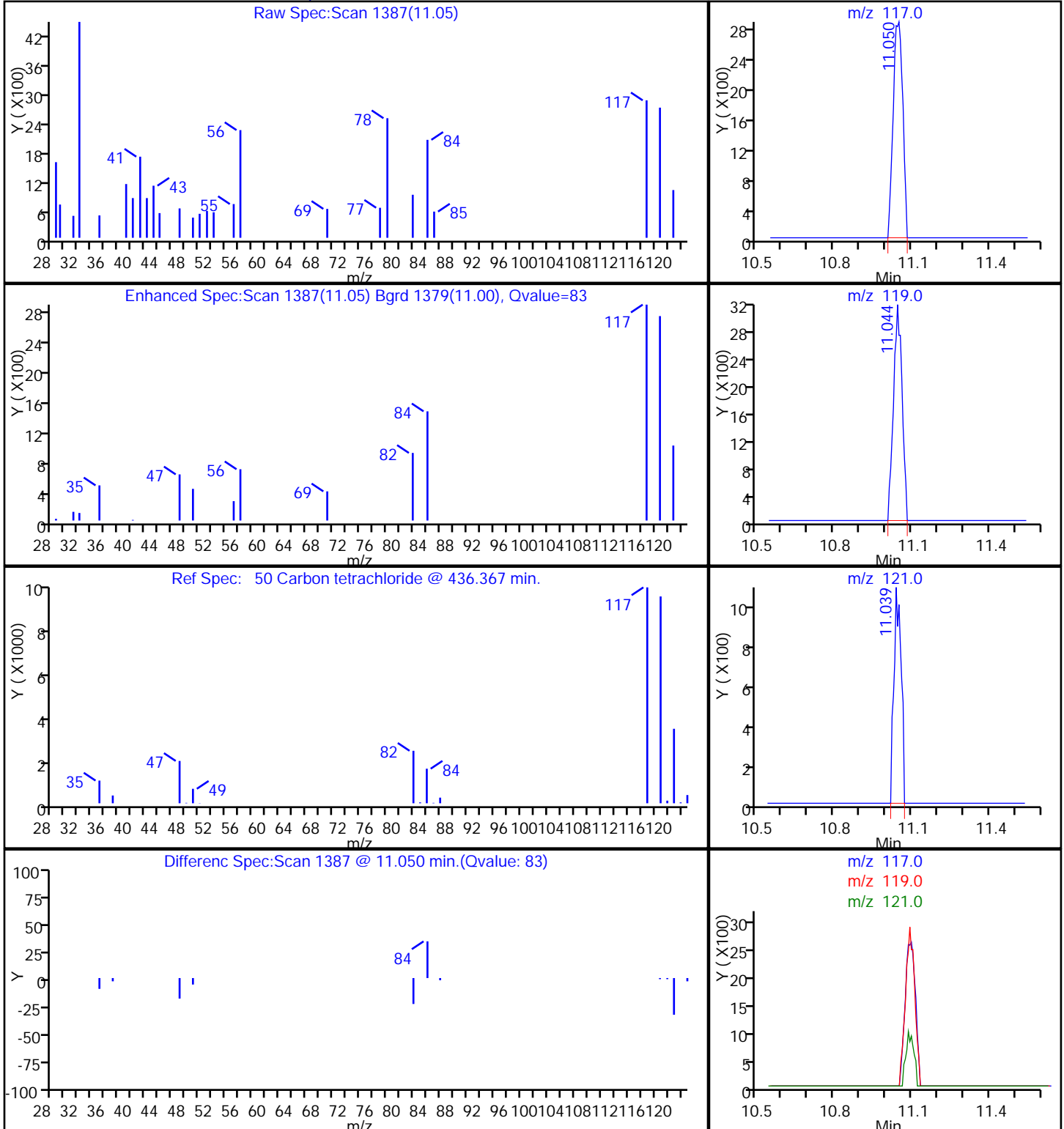
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

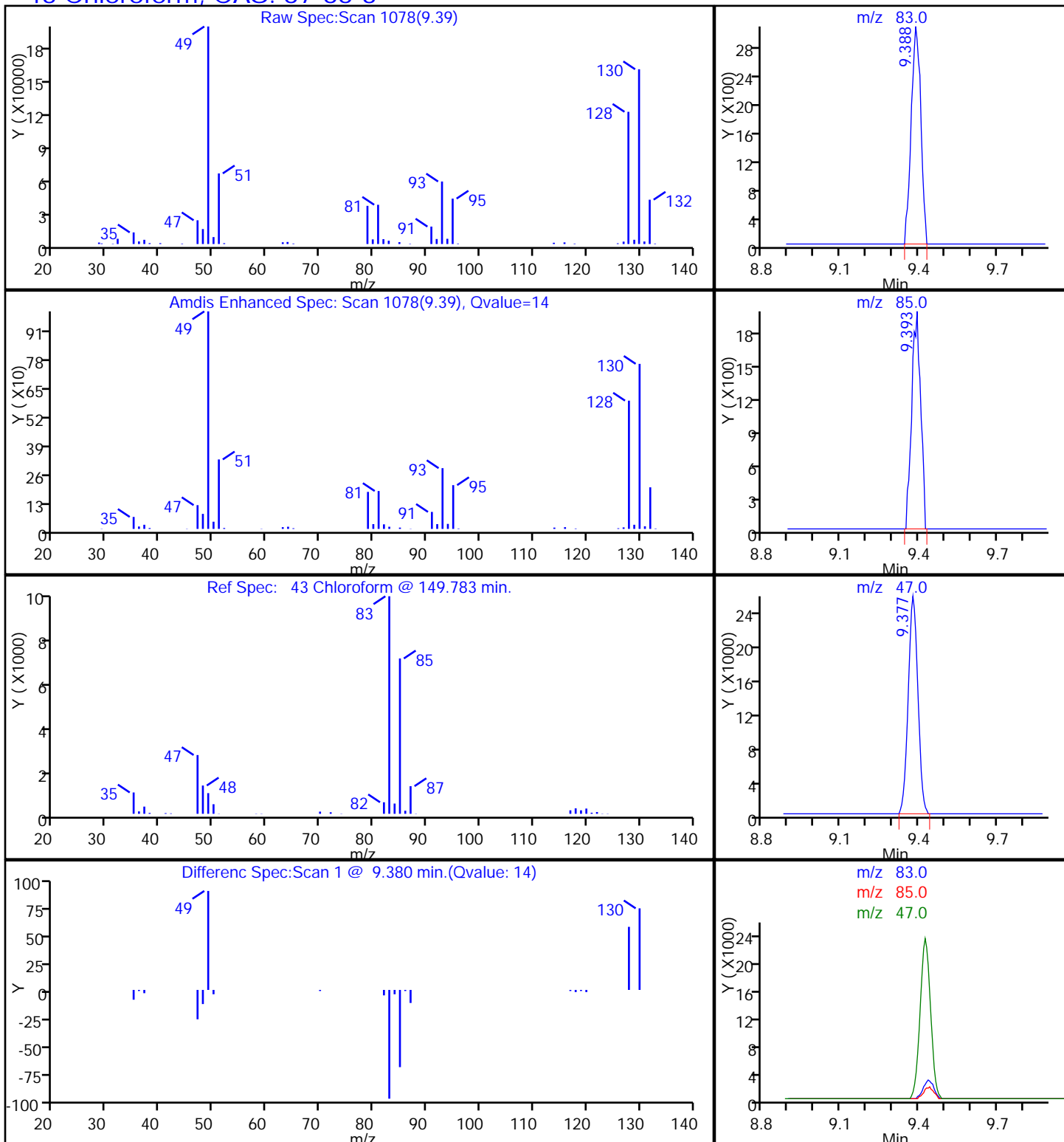
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

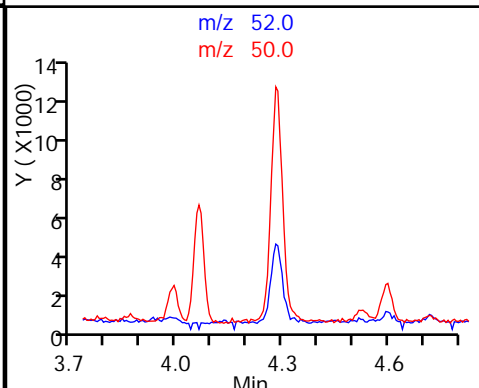
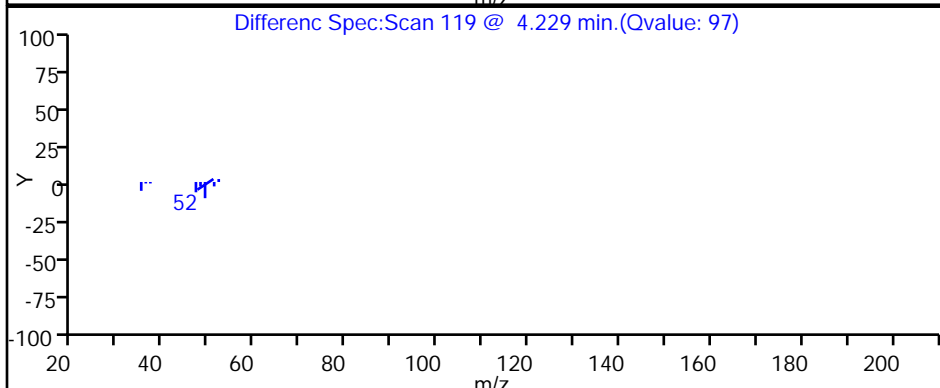
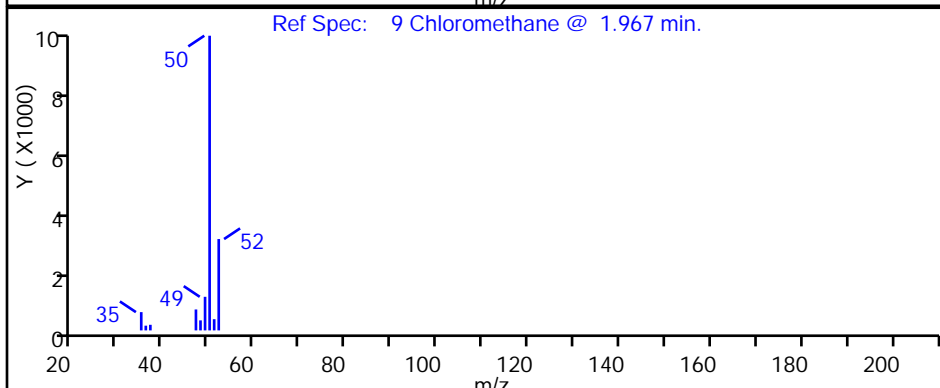
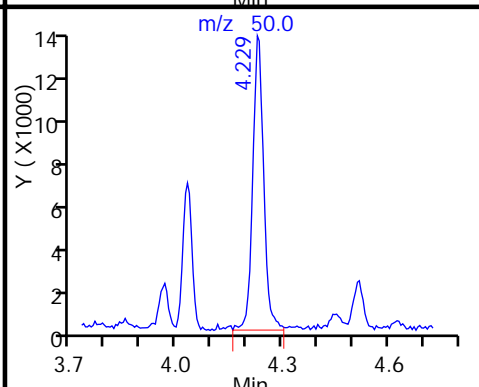
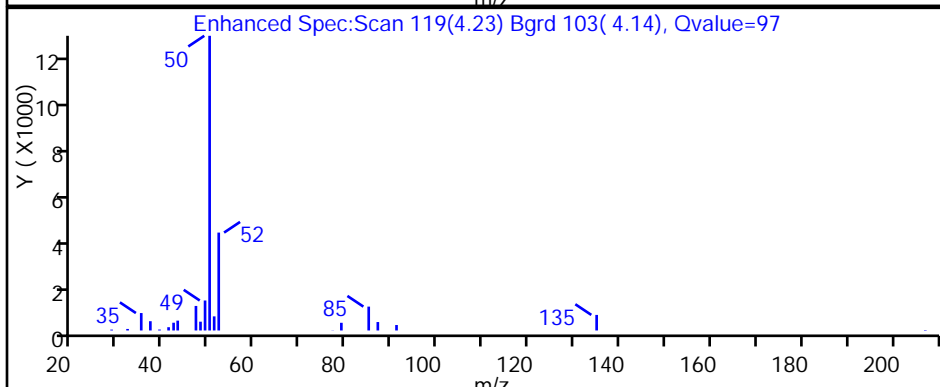
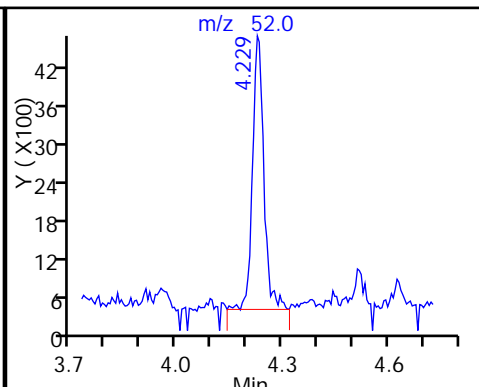
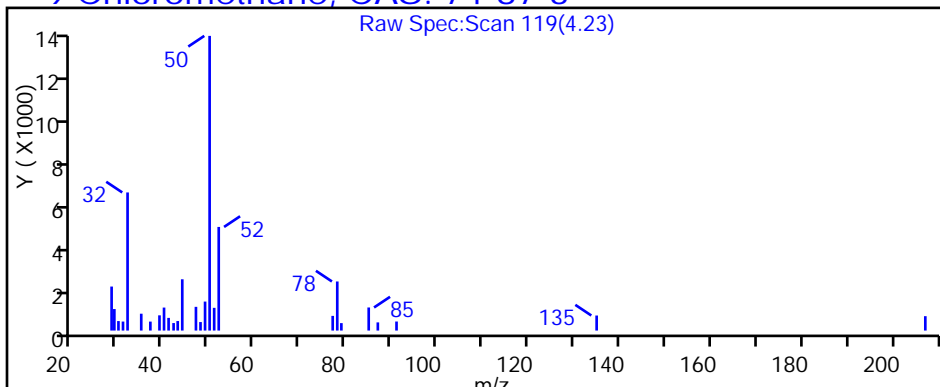
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

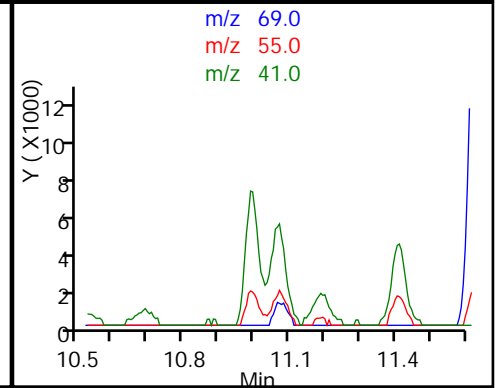
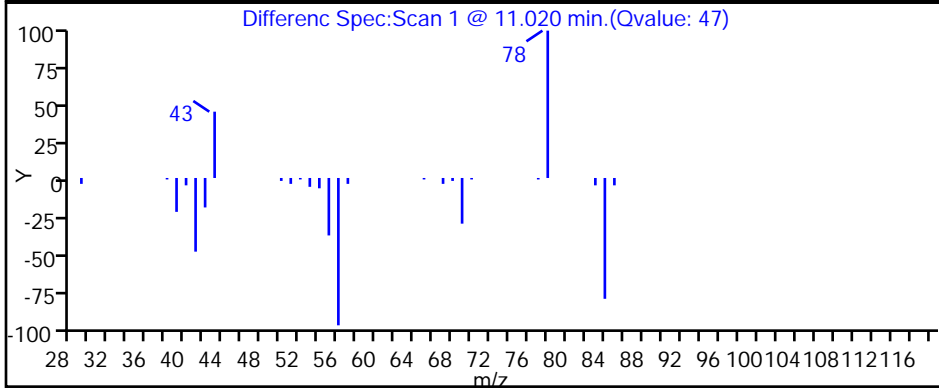
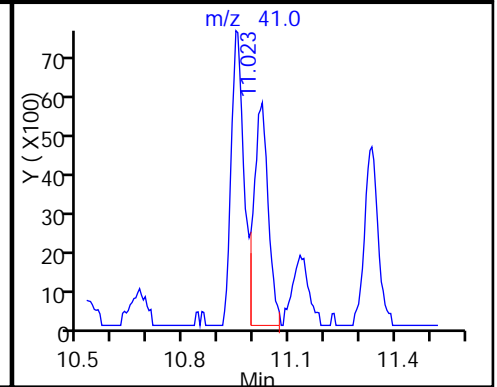
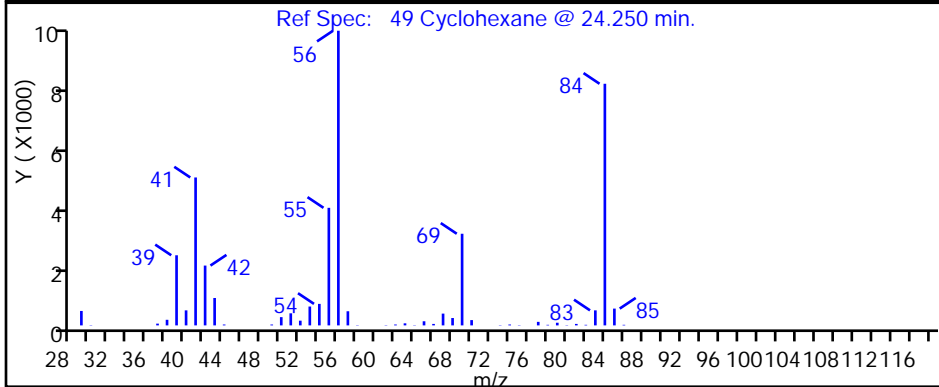
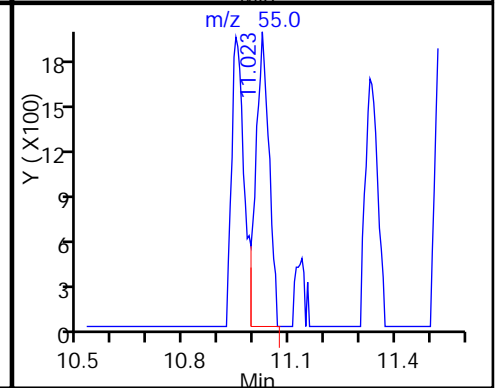
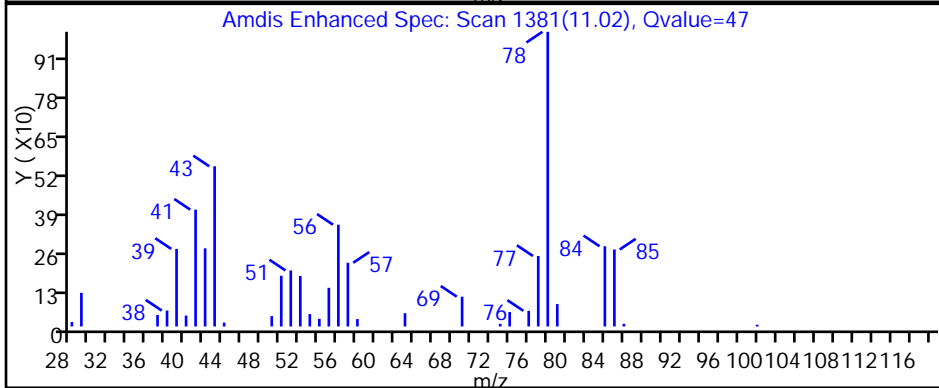
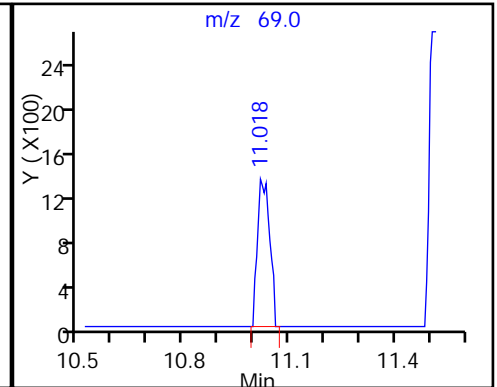
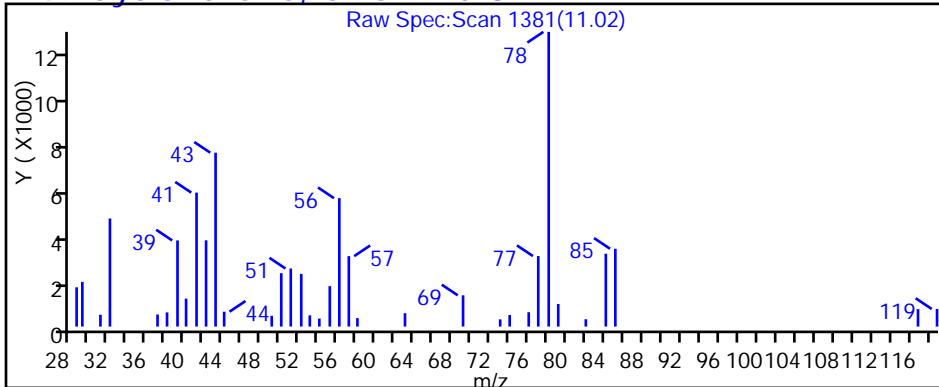
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

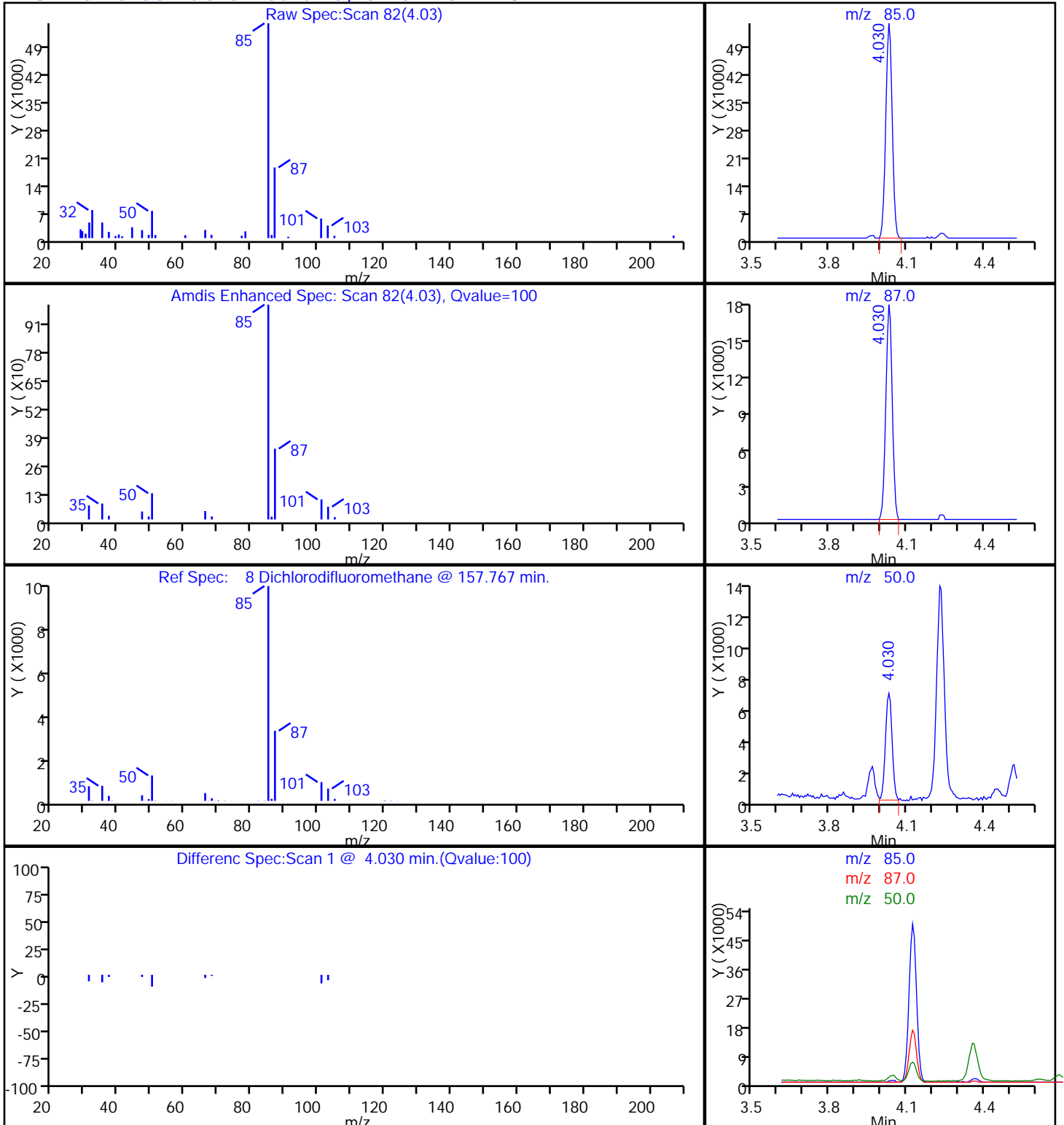
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

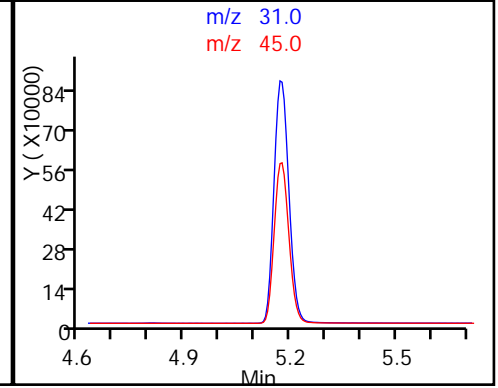
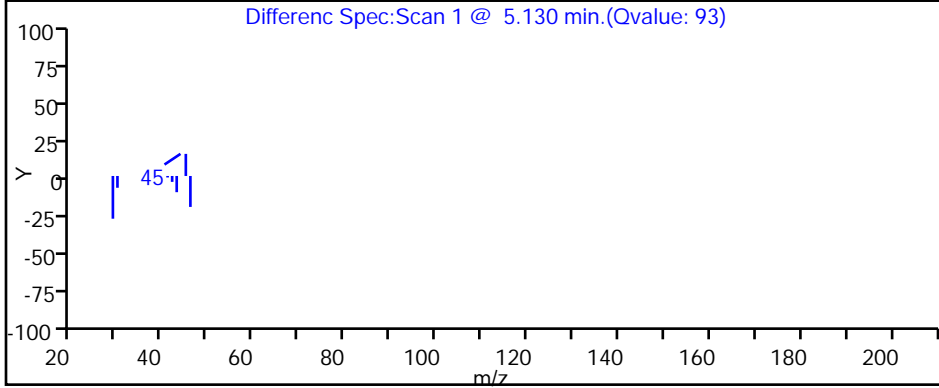
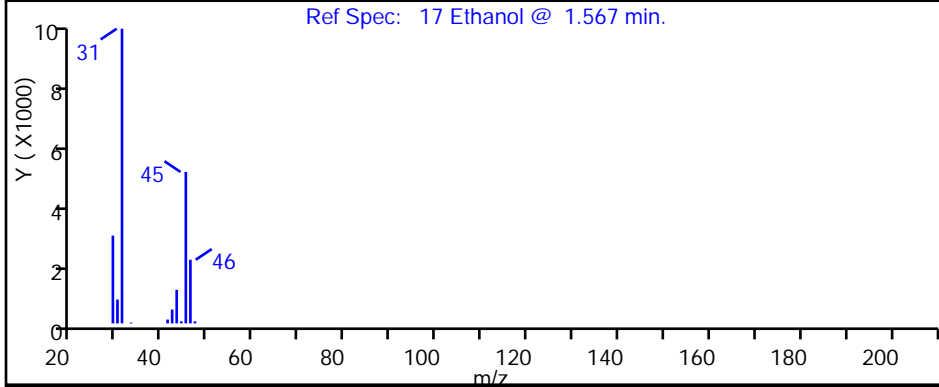
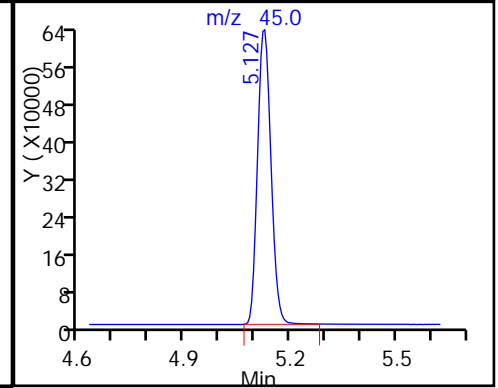
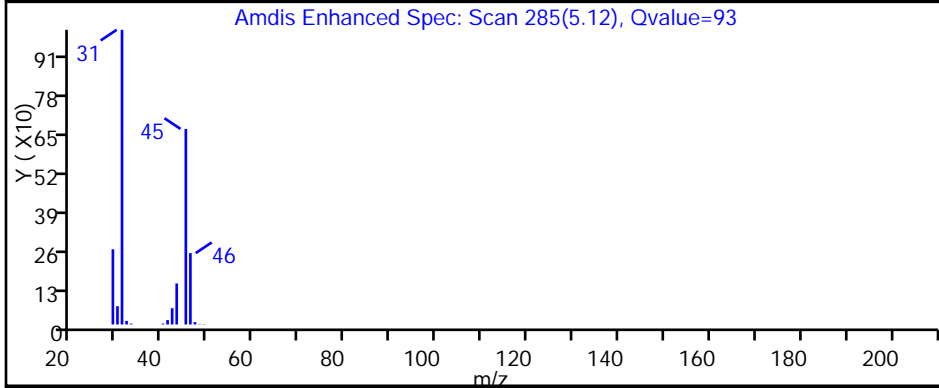
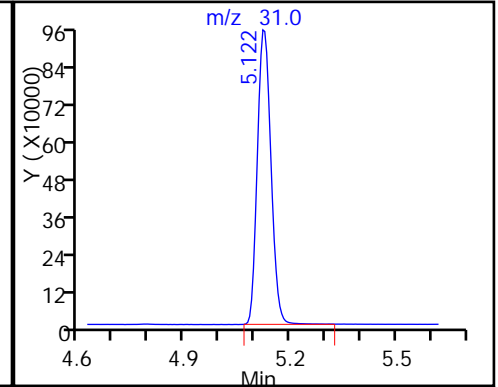
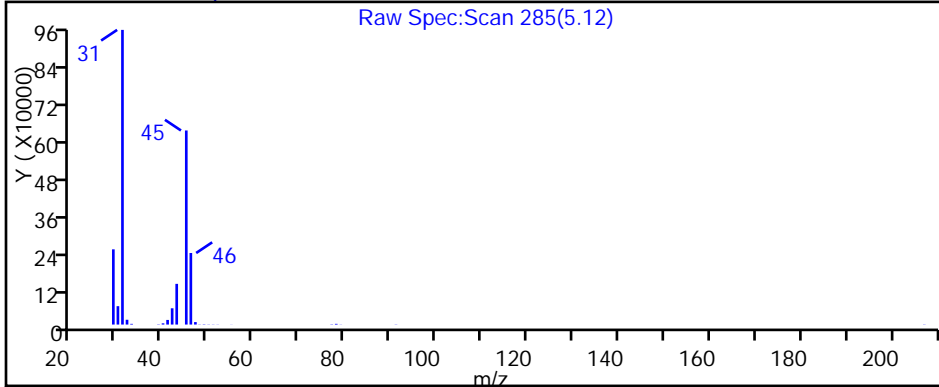
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

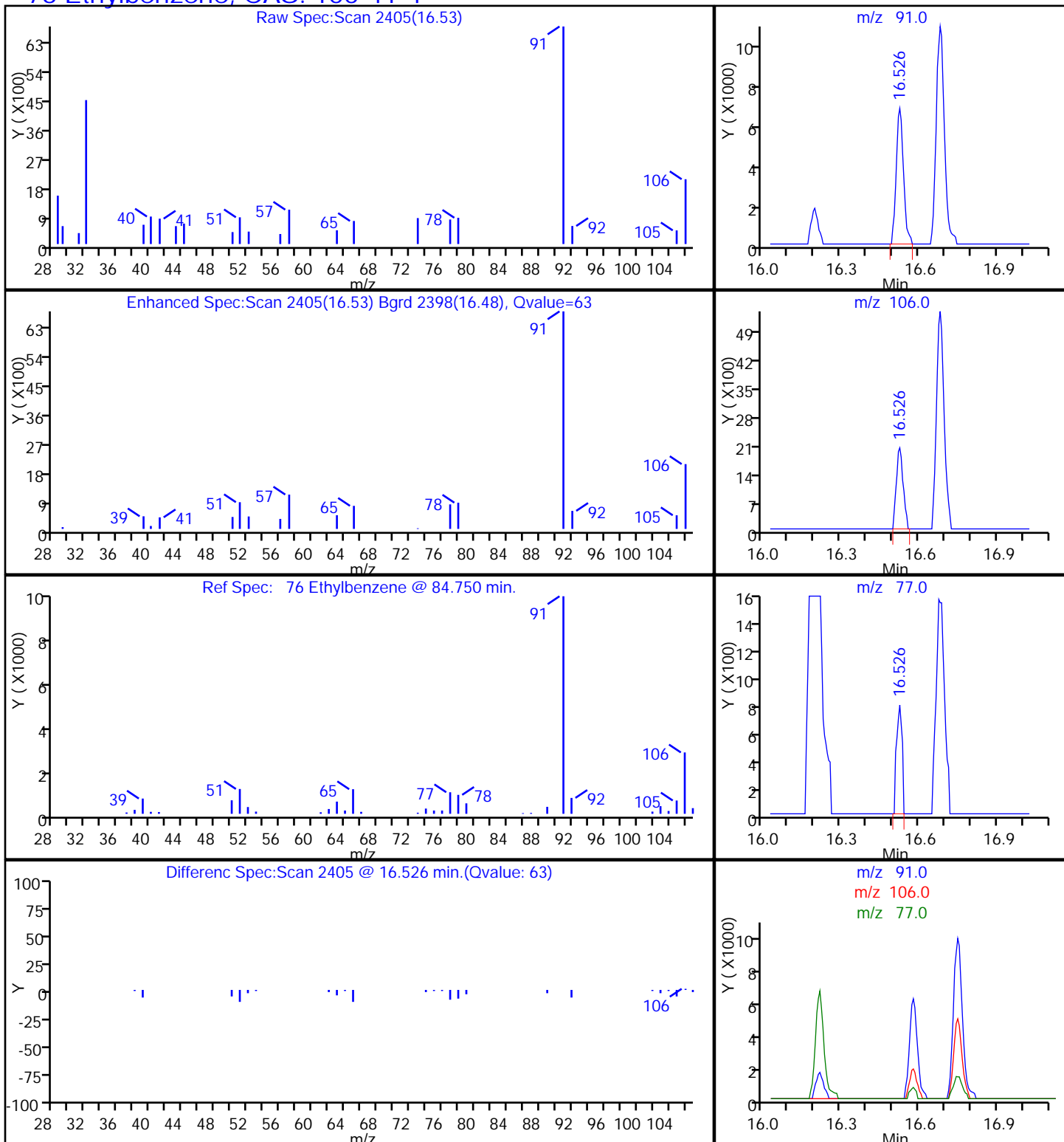
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

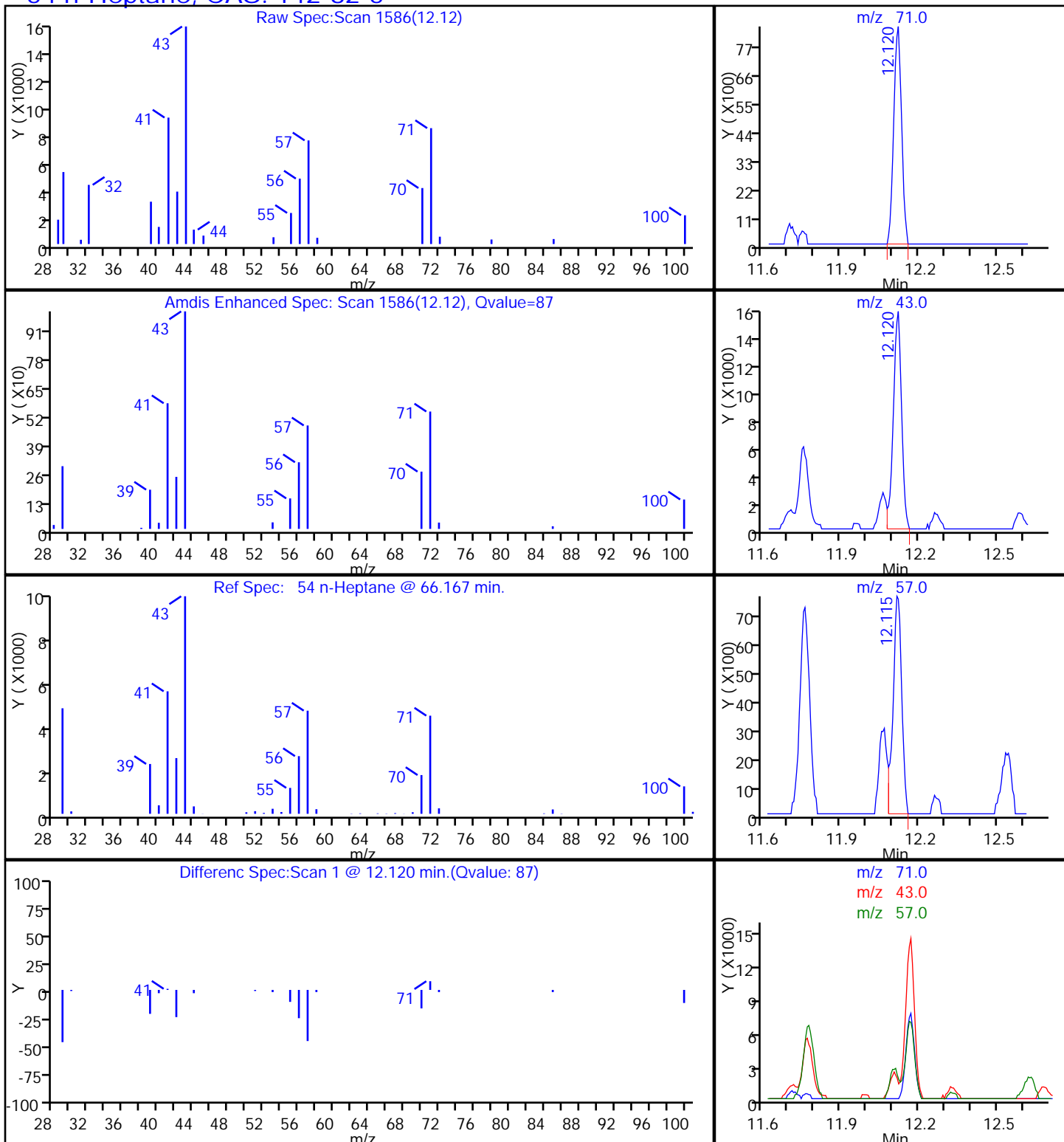
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

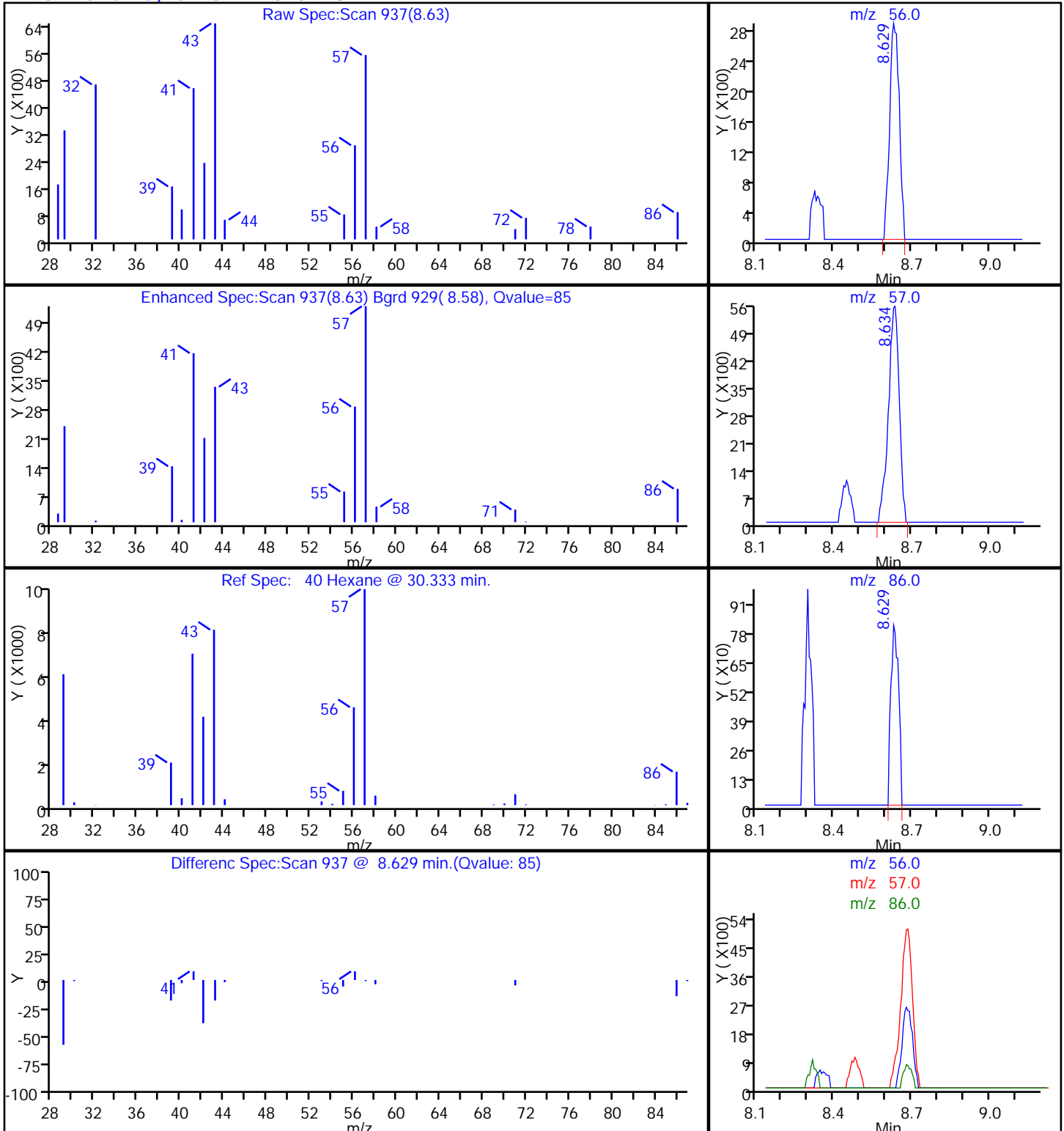
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

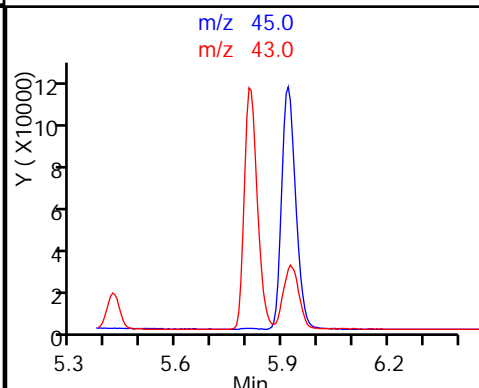
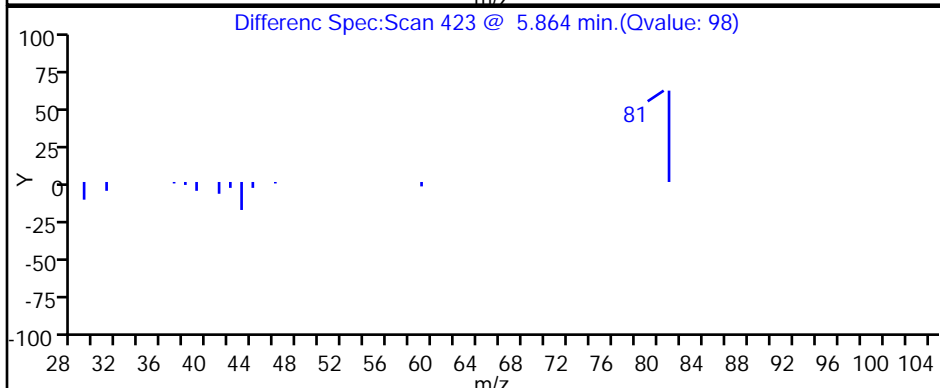
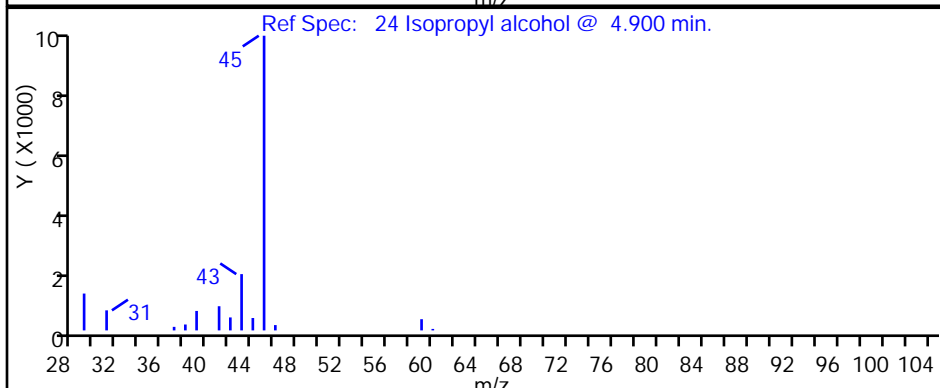
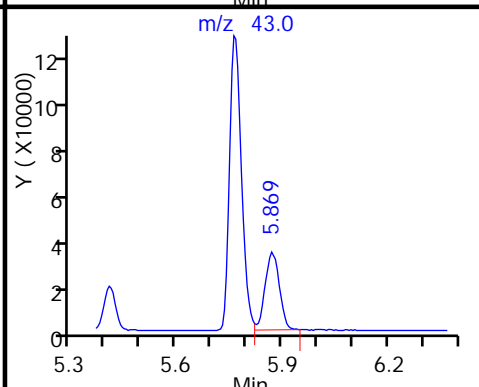
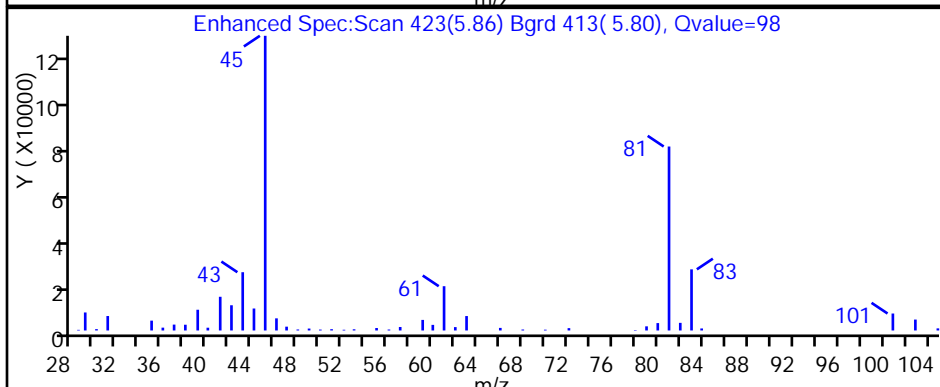
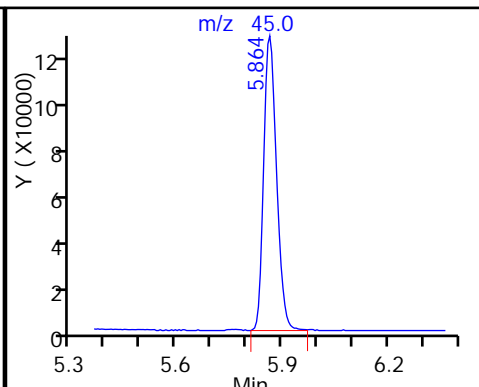
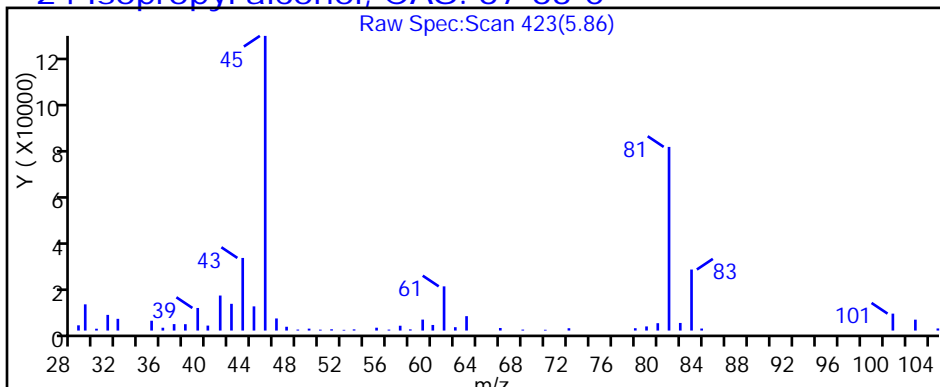
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

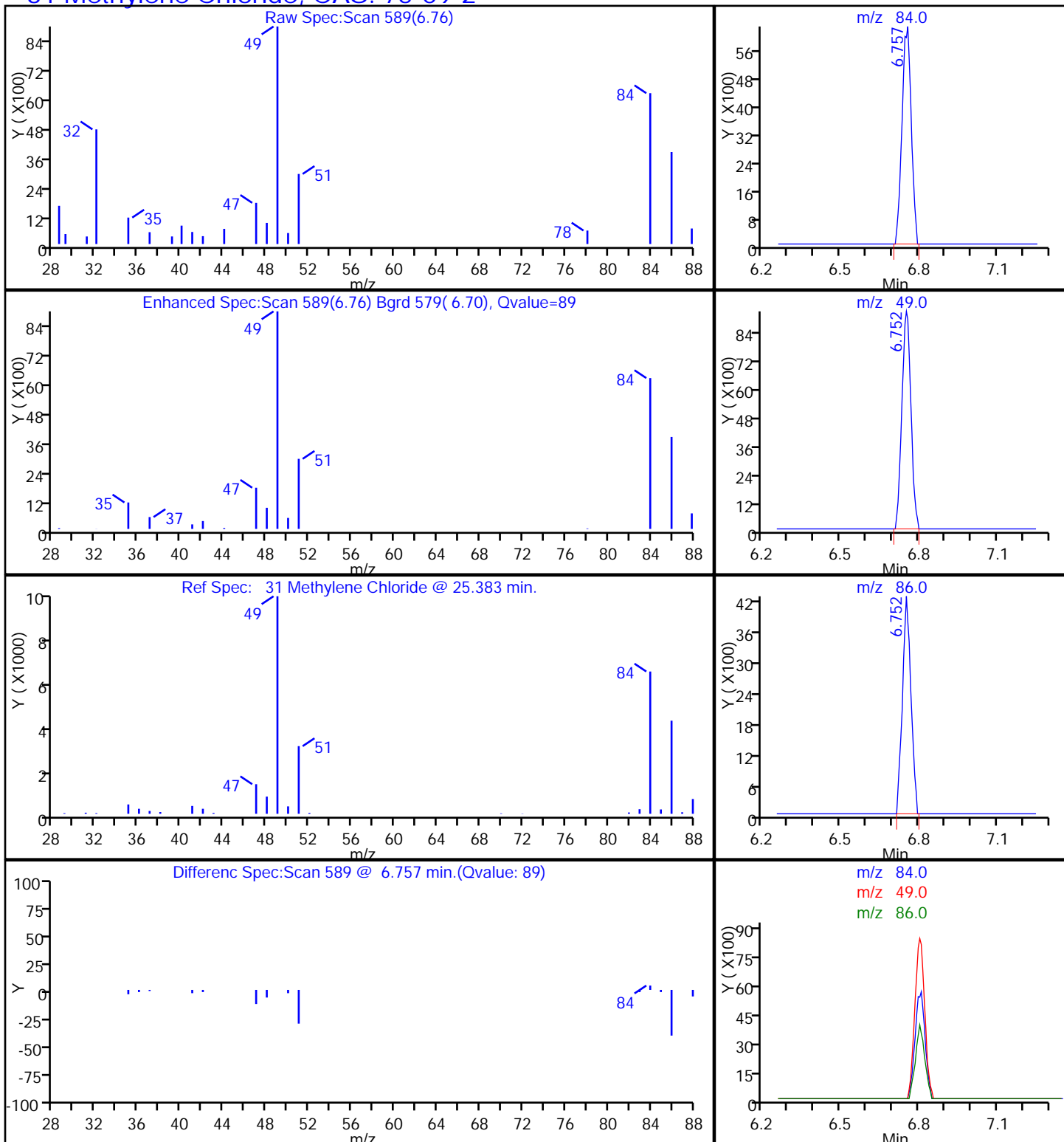
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

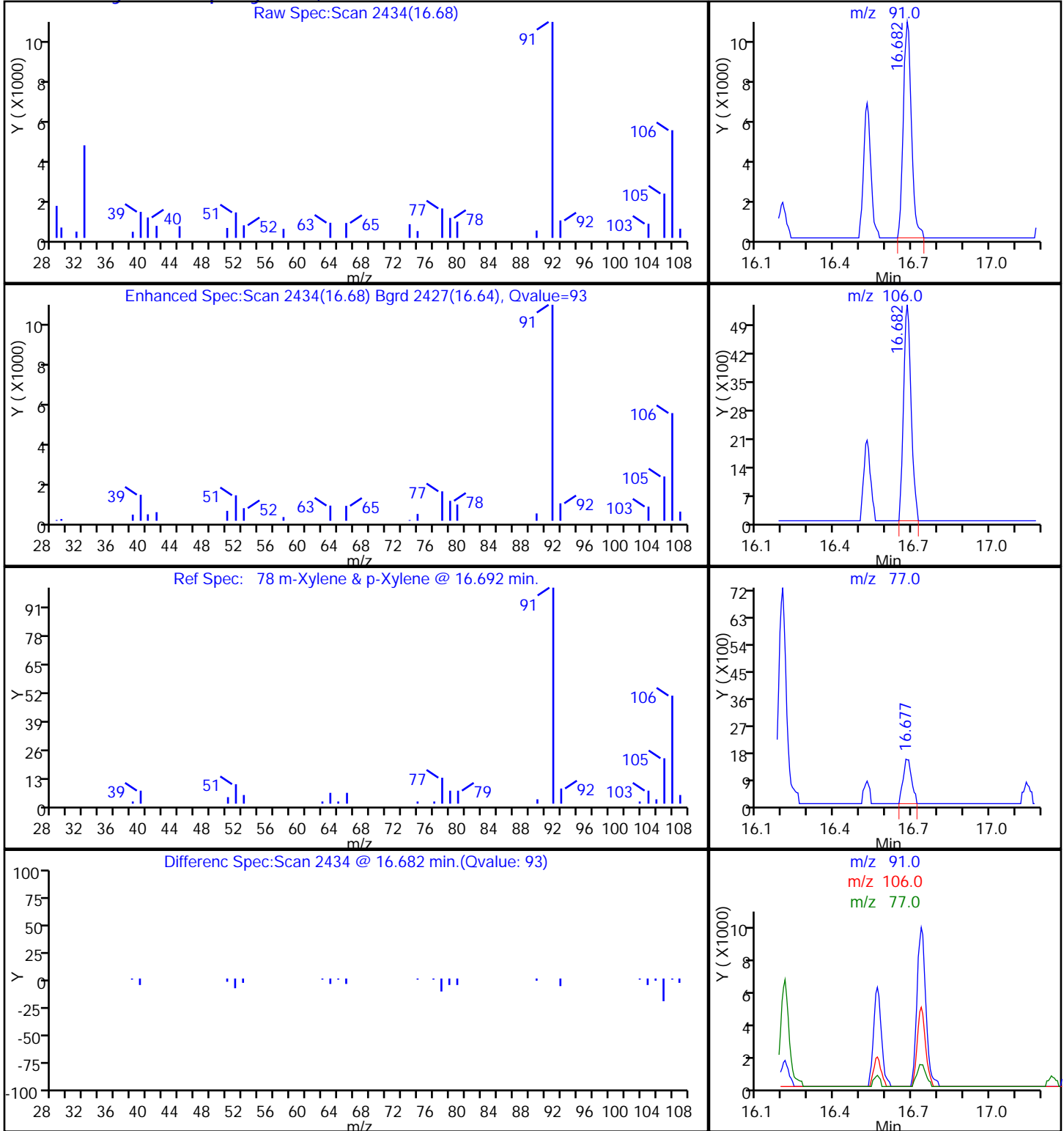
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

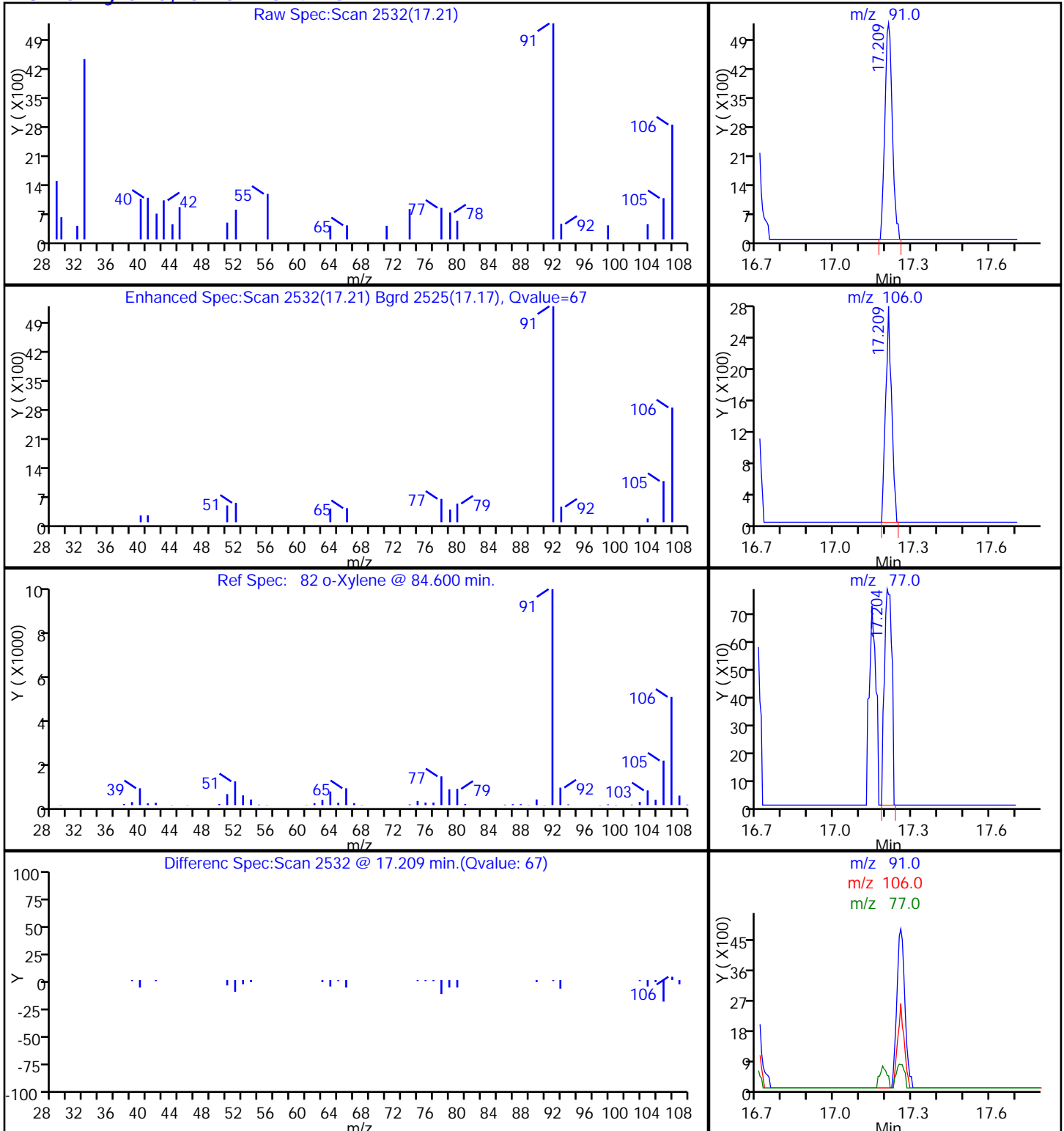
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

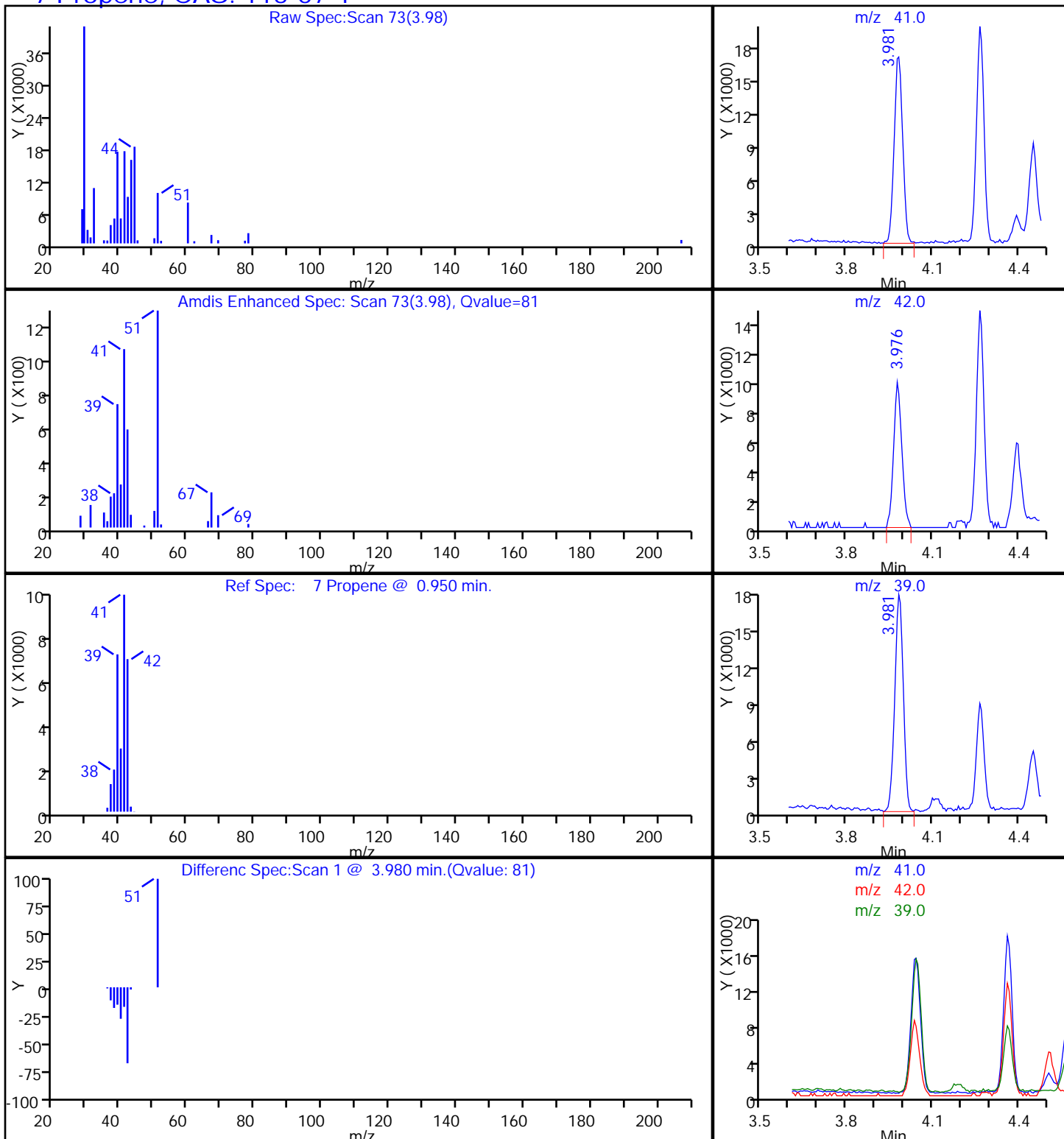
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

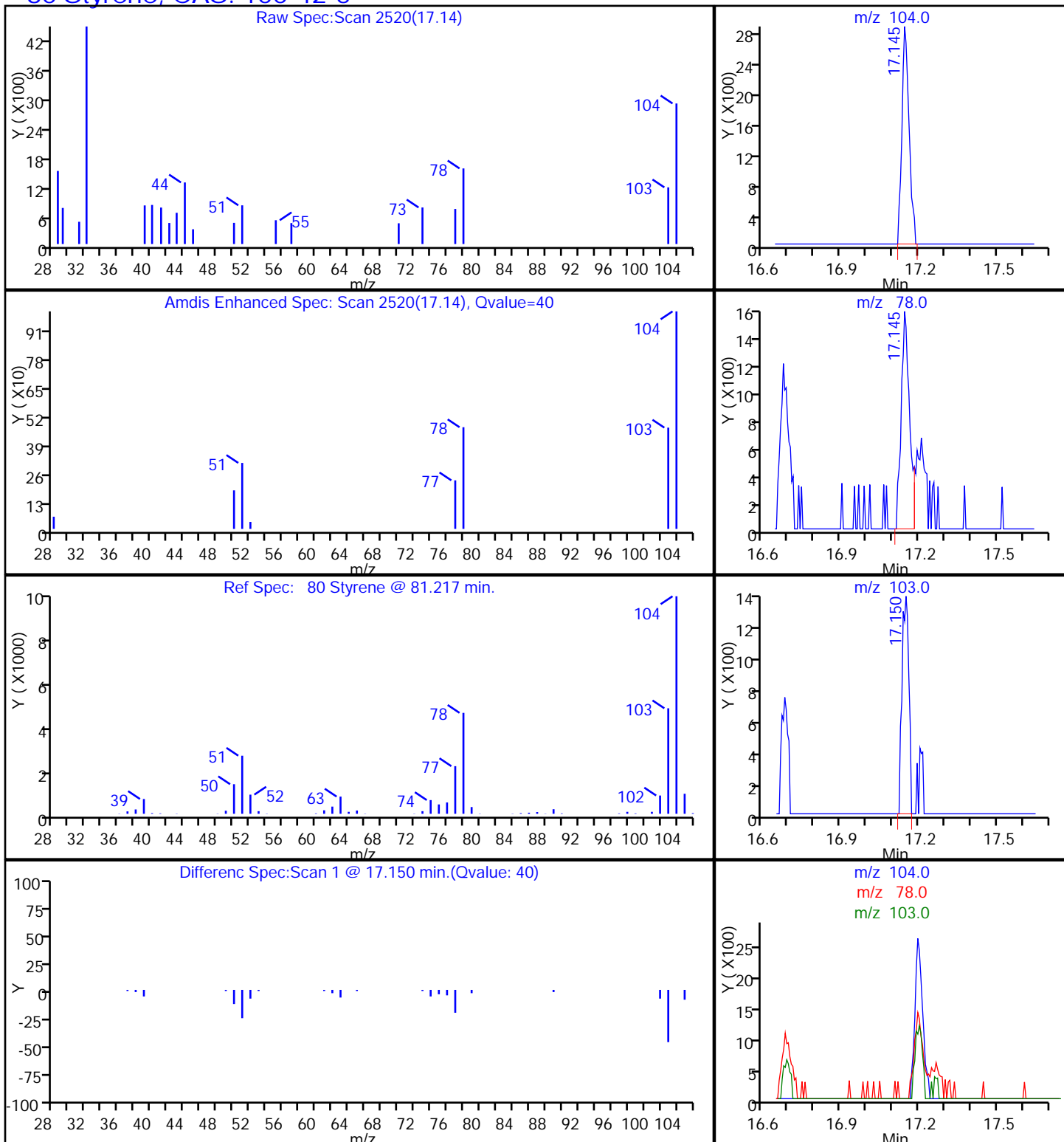
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

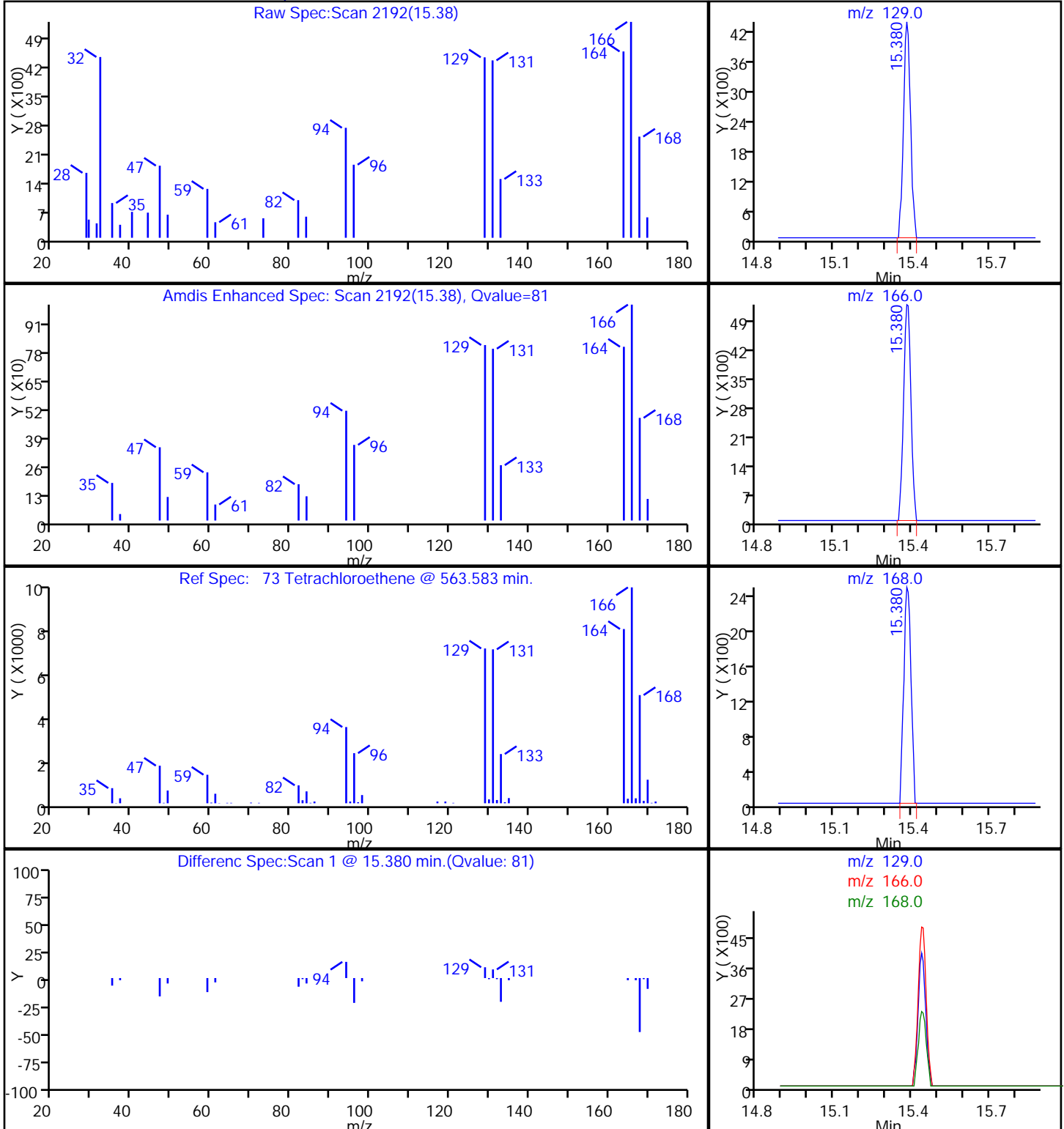
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

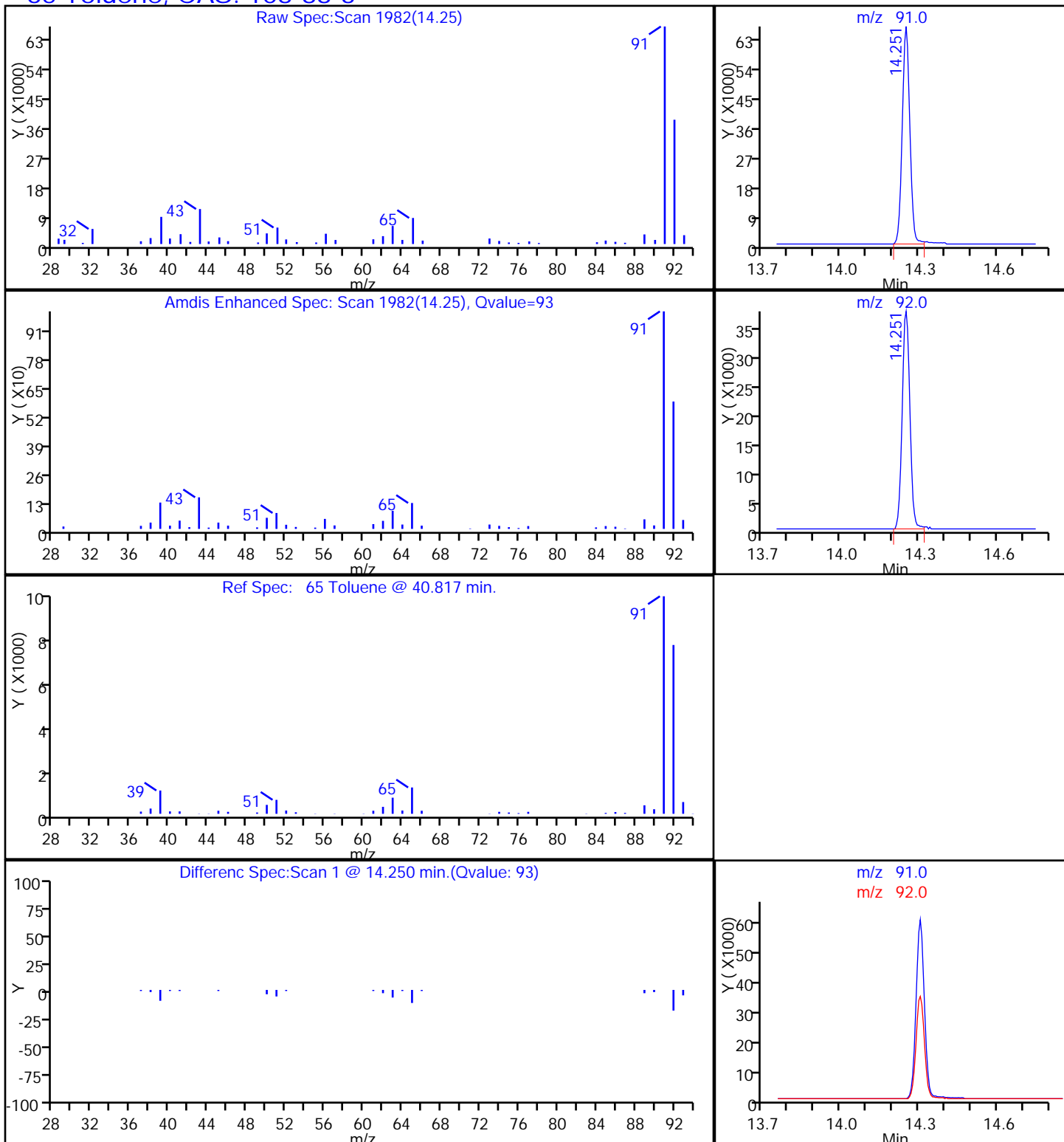
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P111.D

Injection Date: 20-Mar-2014 02:43:30

Instrument ID: MJ

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

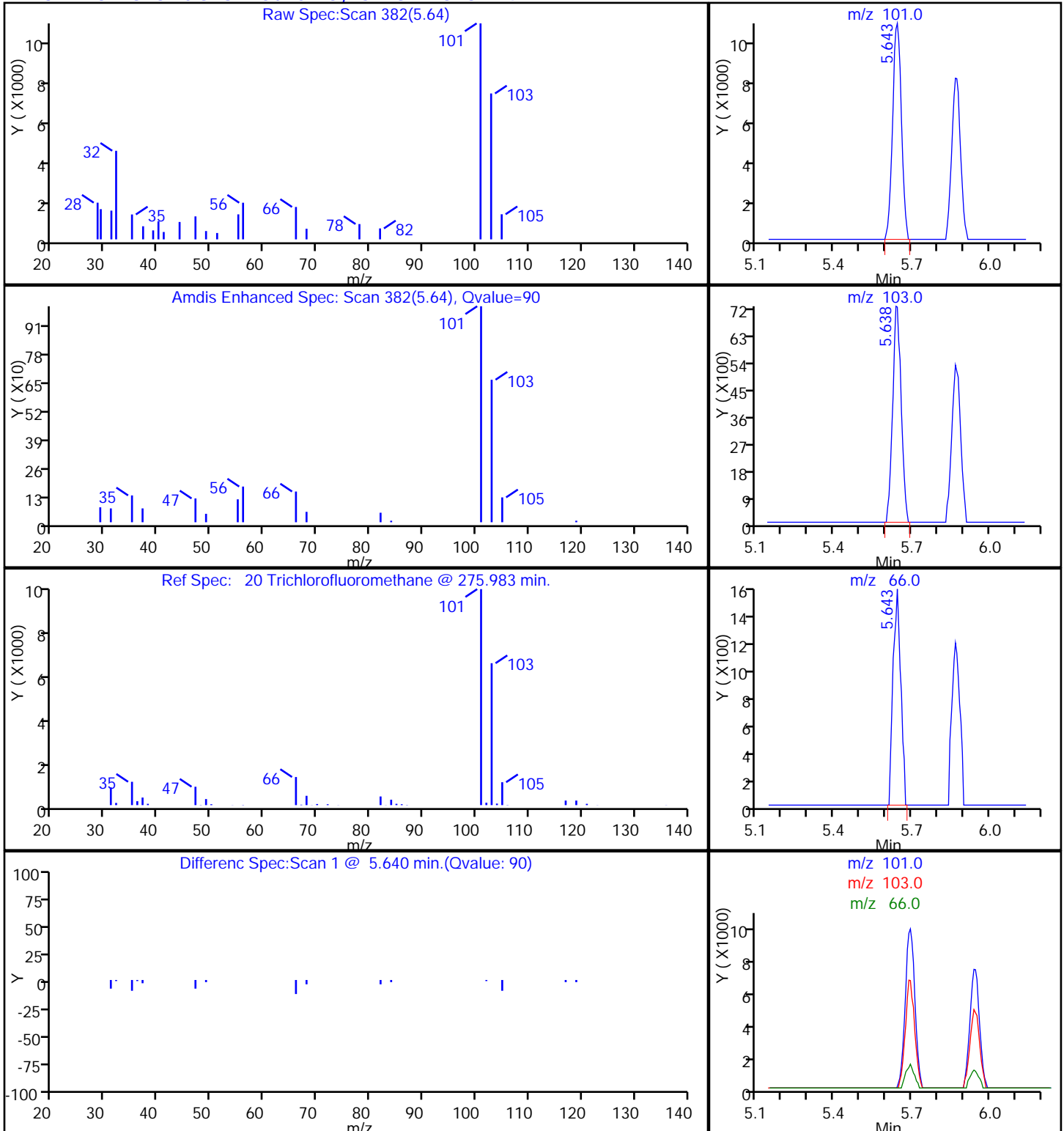
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 DL Lab Sample ID: 140-1065-1 DL
 Matrix: Air Lab File ID: RC20P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 100 (mL) Date Analyzed: 03/21/2014 02:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	190		4.0	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 2- ROOM # 4 DL Lab Sample ID: 140-1065-1 DL
 Matrix: Air Lab File ID: RC20P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:45
 Sample wt/vol: 100 (mL) Date Analyzed: 03/21/2014 02:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	360		7.5	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RC20P114.D
 Lims ID: 140-1065-A-1 Lab Sample ID: 140-1065-1
 Client ID: SAMPLE 2- ROOM # 4
 Sample Type: Client
 Inject. Date: 21-Mar-2014 02:10:30 ALS Bottle#: 14 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1065-a-1
 Misc. Info.: R032014,TO15,140-0000535-020
 Operator ID: 7126 Instrument ID: MR
 Method: \\KNXCHROM\ChromData\MR\20140319-535.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 08:10:15 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 21-Mar-2014 08:10:49

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.463	8.463	0.0	96	247345	4.00	
* 2 1,4-Difluorobenzene	114	10.760	10.760	0.0	96	1313101	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.075	17.091	-0.016	89	1133138	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.830	19.846	-0.016	91	865745	3.88	
7 Propene	41	3.405	3.394	0.011	89	26906	0.2592	
8 Dichlorodifluoromethane	85	3.443	3.437	0.006	98	18710	0.0753	
9 Chloromethane	52	3.599	3.594	0.005	97	4853	0.1323	
17 Ethanol	31	4.413	4.386	0.027	92	1588256	38.0	
19 2-Methylbutane	43	4.651	4.640	0.011	92	28767	0.2024	
20 Trichlorofluoromethane	101	4.861	4.850	0.011	89	11535	0.0470	
25 Isopropyl alcohol	45	5.071	5.066	0.005	31	31632	0.1652	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	5.761	5.751	0.010	67	2729	0.0165	
31 Methylene Chloride	84	5.902	5.896	0.006	89	8260	0.1064	
40 Hexane	56	7.778	7.773	0.005	78	4835	0.0495	
43 Chloroform	83	8.501	8.490	0.011	5	3484	0.0189	
44 Tetrahydrofuran	42	8.894	8.889	0.005	94	355683	2.52	
47 Benzene	78	10.162	10.156	0.006	92	15669	0.0541	
48 Cyclohexane	69	10.194	10.178	0.016	61	1498	0.0306	
50 Carbon tetrachloride	117	10.194	10.194	0.0	73	2930	0.0151	
53 Isooctane	57	11.051	11.051	0.0	86	10580	0.0179	
54 n-Heptane	71	11.499	11.494	0.005	92	8574	0.0775	
62 4-Methyl-2-pentanone (MIBK)	43	13.047	13.036	0.011	91	26809	0.0879	
65 Toluene	91	14.201	14.201	0.0	93	76588	0.2184	
73 Tetrachloroethene	129	15.840	15.834	0.006	84	3877	0.0323	
78 m-Xylene & p-Xylene	91	17.927	17.948	-0.021	94	20127	0.0581	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RC20P114.D

Injection Date: 21-Mar-2014 02:10:30

Instrument ID: MR

Operator ID: 7126

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Worklist Smp#: 20

Client ID: SAMPLE 2- ROOM # 4

Purge Vol: 500.000 mL

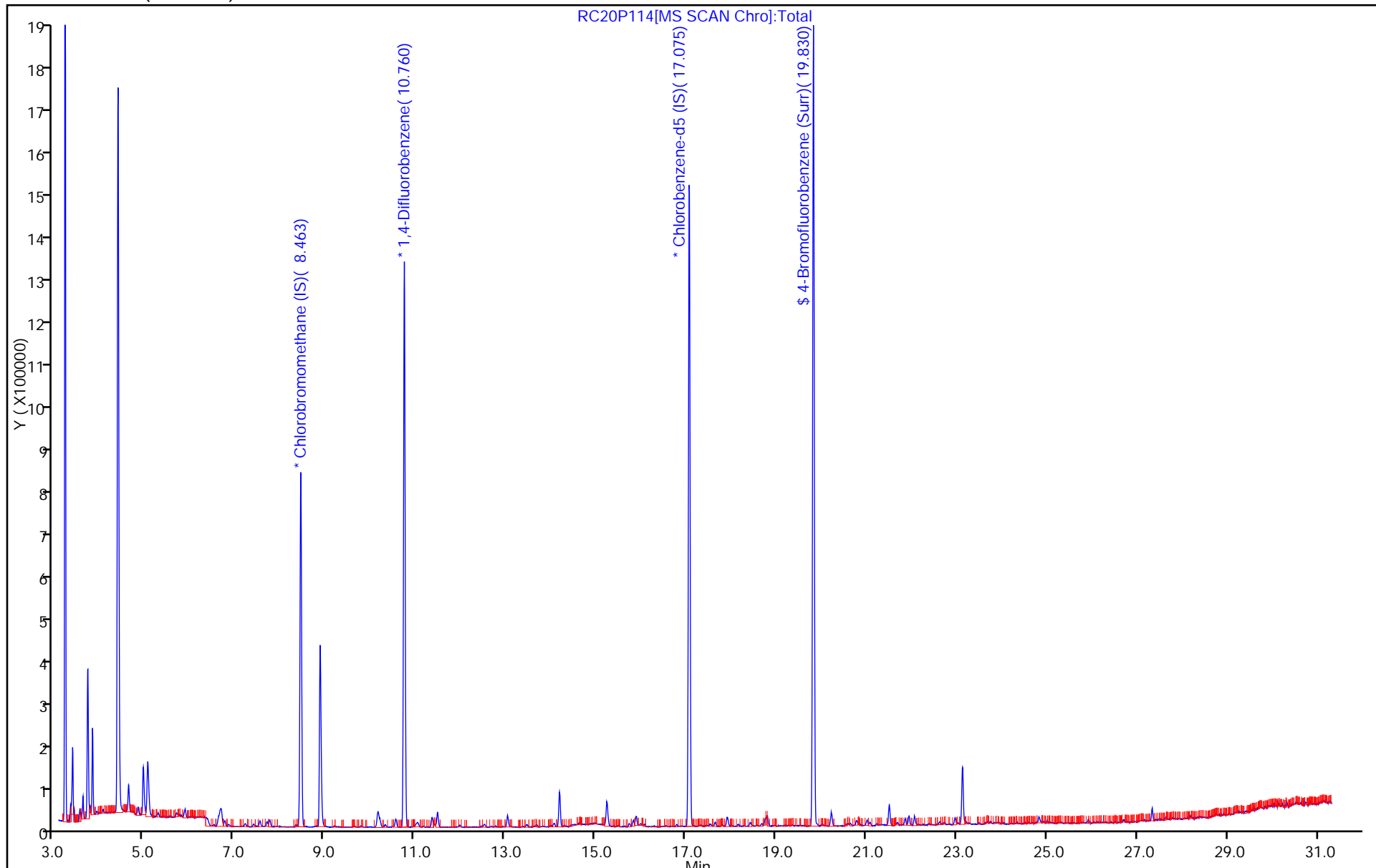
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RC20P114.D

Injection Date: 21-Mar-2014 02:10:30

Instrument ID: MR

Lims ID: 140-1065-A-1

Lab Sample ID: 140-1065-1

Client ID: SAMPLE 2- ROOM # 4

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

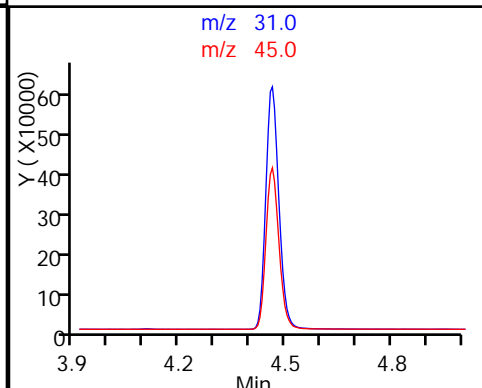
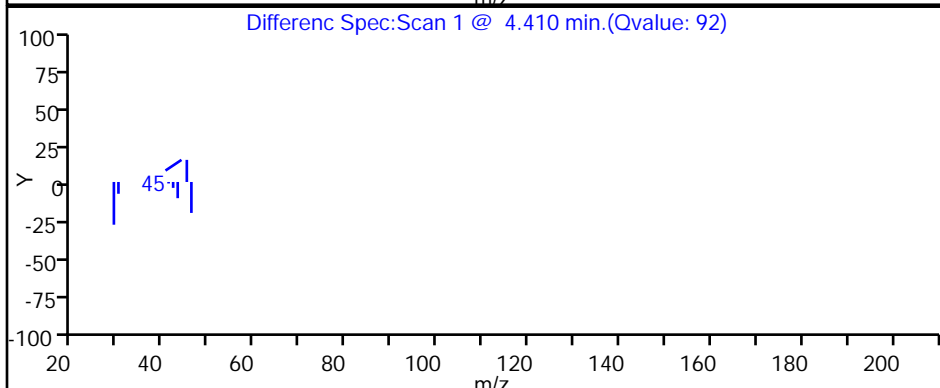
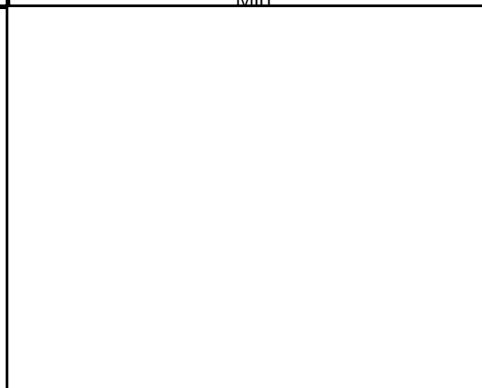
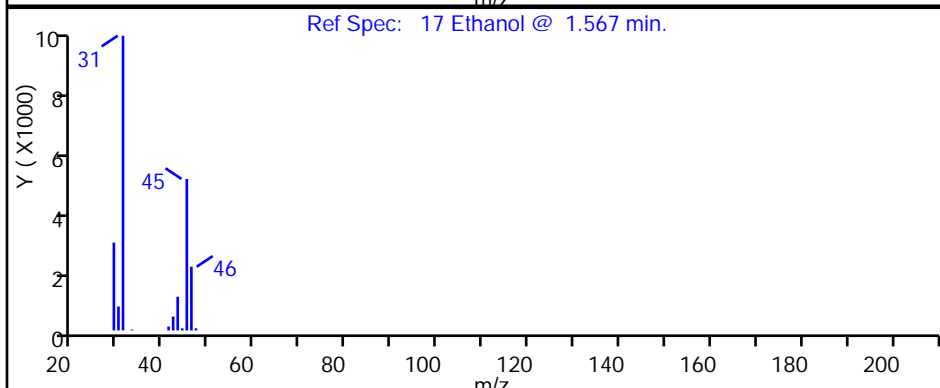
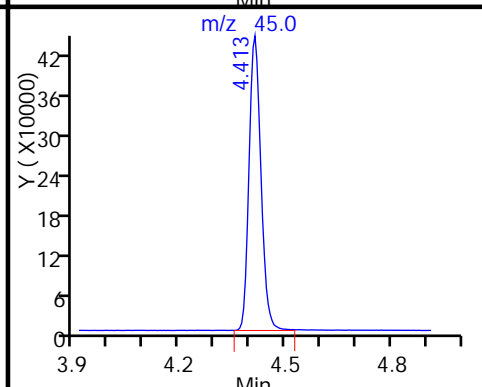
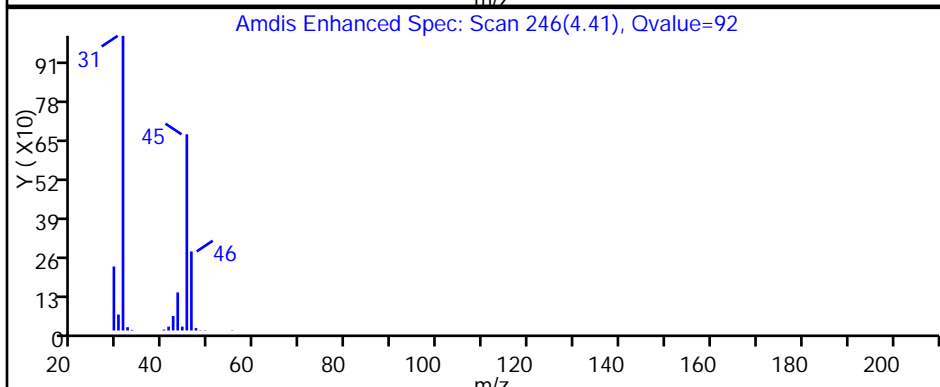
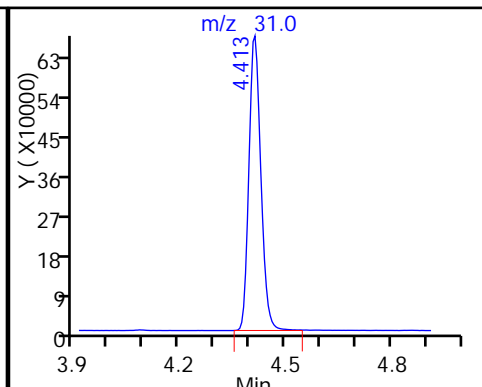
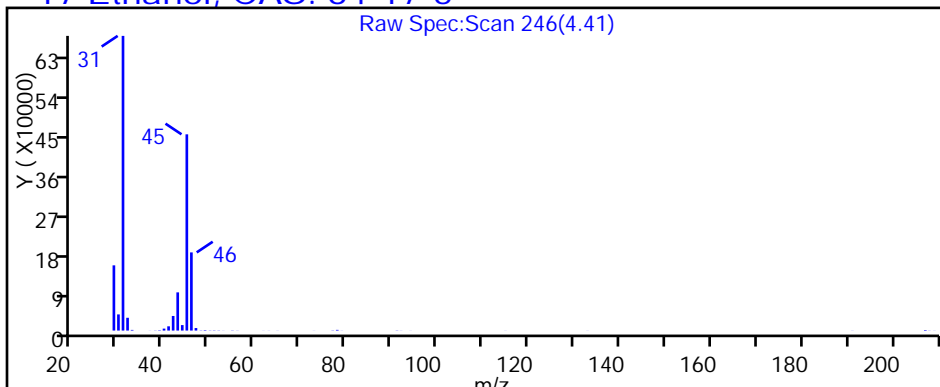
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 Lab Sample ID: 140-1065-2
 Matrix: Air Lab File ID: JC19P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 03:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.073	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.10	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.082	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.66	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.92		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.46	J	0.50	0.045
67-64-1	Acetone	58.08	6.0		5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 Lab Sample ID: 140-1065-2
 Matrix: Air Lab File ID: JC19P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 03:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.077	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.097	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.53		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.12	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.76		0.20	0.068
64-17-5	Ethanol	46.07	210	E	2.0	2.0
100-41-4	Ethylbenzene	106.17	0.10	J	0.20	0.068
142-82-5	Heptane	100.21	0.34	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.18	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	5.7		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.27	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.24		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.098	J	0.20	0.061
115-07-1	Propene	42.08	1.0	cn	0.50	0.077
100-42-5	Styrene	104.15	0.081	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.16	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.4		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 Lab Sample ID: 140-1065-2
 Matrix: Air Lab File ID: JC19P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 03:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 Lab Sample ID: 140-1065-2
 Matrix: Air Lab File ID: JC19P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 03:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.56	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.51	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.38	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	2.0	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.7		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.9	J	2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	0.76		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 Lab Sample ID: 140-1065-2
 Matrix: Air Lab File ID: JC19P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 03:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.48	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.47	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.41	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	3.8		0.99	0.34
64-17-5	Ethanol	46.07	390	E	3.8	3.8
100-41-4	Ethylbenzene	106.17	0.44	J	0.87	0.30
142-82-5	Heptane	100.21	1.4	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.62	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	14		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.94	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.0		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.43	J	0.87	0.26
115-07-1	Propene	42.08	1.8	cn	0.86	0.13
100-42-5	Styrene	104.15	0.34	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.1	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.3		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 Lab Sample ID: 140-1065-2
 Matrix: Air Lab File ID: JC19P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 03:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D
 Lims ID: 140-1065-A-2 Lab Sample ID: 140-1065-2
 Client ID: SAMPLE 3- ROOM # 2
 Sample Type: Client
 Inject. Date: 20-Mar-2014 03:37:30 ALS Bottle#: 12 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1065-a-2
 Misc. Info.: J031914,TO15,,140-0000532-019
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:55:13 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:55:12

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	91	350878	4.00	
* 2 1,4-Difluorobenzene	114	11.533	11.542	-0.009	94	1698450	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.197	16.201	-0.004	88	1400844	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.816	17.820	-0.004	91	942064	3.80	
7 Propene	41	3.980	3.973	0.007	93	44216	0.4110	
8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	100	105680	0.3041	
9 Chloromethane	52	4.233	4.231	0.002	97	8295	0.2101	
17 Ethanol	31	5.121	5.119	0.002	93	2321291	82.4	E
19 2-Methylbutane	43	5.411	5.409	0.002	92	54989	0.3690	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	88	25994	0.0851	
23 Acetone	58	5.761	5.770	-0.009	97	120100	2.41	
24 Isopropyl alcohol	45	5.863	5.850	0.013	95	301131	2.29	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.579	6.582	-0.003	61	6172	0.0292	
31 Methylene Chloride	84	6.745	6.754	-0.009	86	10171	0.1084	
39 2-Butanone (MEK)	72	8.596	8.589	0.007	95	8820	0.2656	
40 Hexane	56	8.634	8.637	-0.003	68	6623	0.0702	
43 Chloroform	83	9.387	9.396	-0.009	14	7946	0.0389	
48 Benzene	78	11.017	11.026	-0.009	90	27782	0.0953	
49 Cyclohexane	69	11.027	11.031	-0.004	51	2763	0.0480	
50 Carbon tetrachloride	117	11.044	11.047	-0.003	83	7417	0.0308	
53 Isooctane	57	11.764	11.763	0.001	62	16228	0.0326	
54 n-Heptane	71	12.120	12.123	-0.003	85	14119	0.1370	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.371	0.002	93	32444	0.1822	
65 Toluene	91	14.250	14.253	-0.003	94	146692	0.5645	
73 Tetrachloroethene	129	15.379	15.383	-0.004	81	7547	0.0623	
76 Ethylbenzene	91	16.525	16.529	-0.004	67	11756	0.0410	
78 m-Xylene & p-Xylene	91	16.681	16.685	-0.004	93	22019	0.0951	
80 Styrene	104	17.144	17.147	-0.003	44	5132	0.0323	
82 o-Xylene	91	17.208	17.212	-0.004	64	9246	0.0394	
93 1,2,4-Trimethylbenzene	105	18.941	18.939	0.002	70	11339	0.0417	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Worklist Smp#: 19

Client ID: SAMPLE 3- ROOM # 2

Purge Vol: 500.000 mL

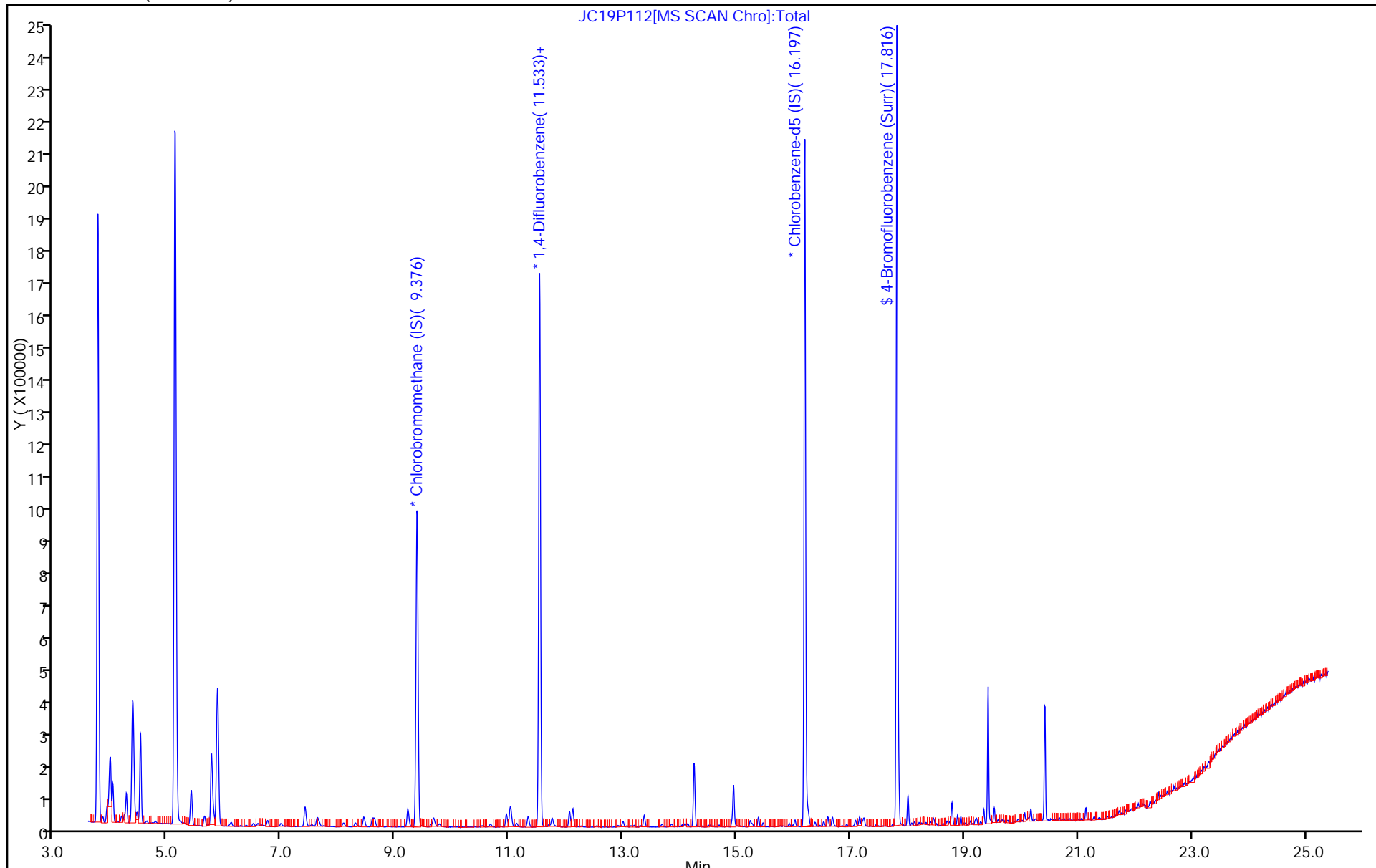
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

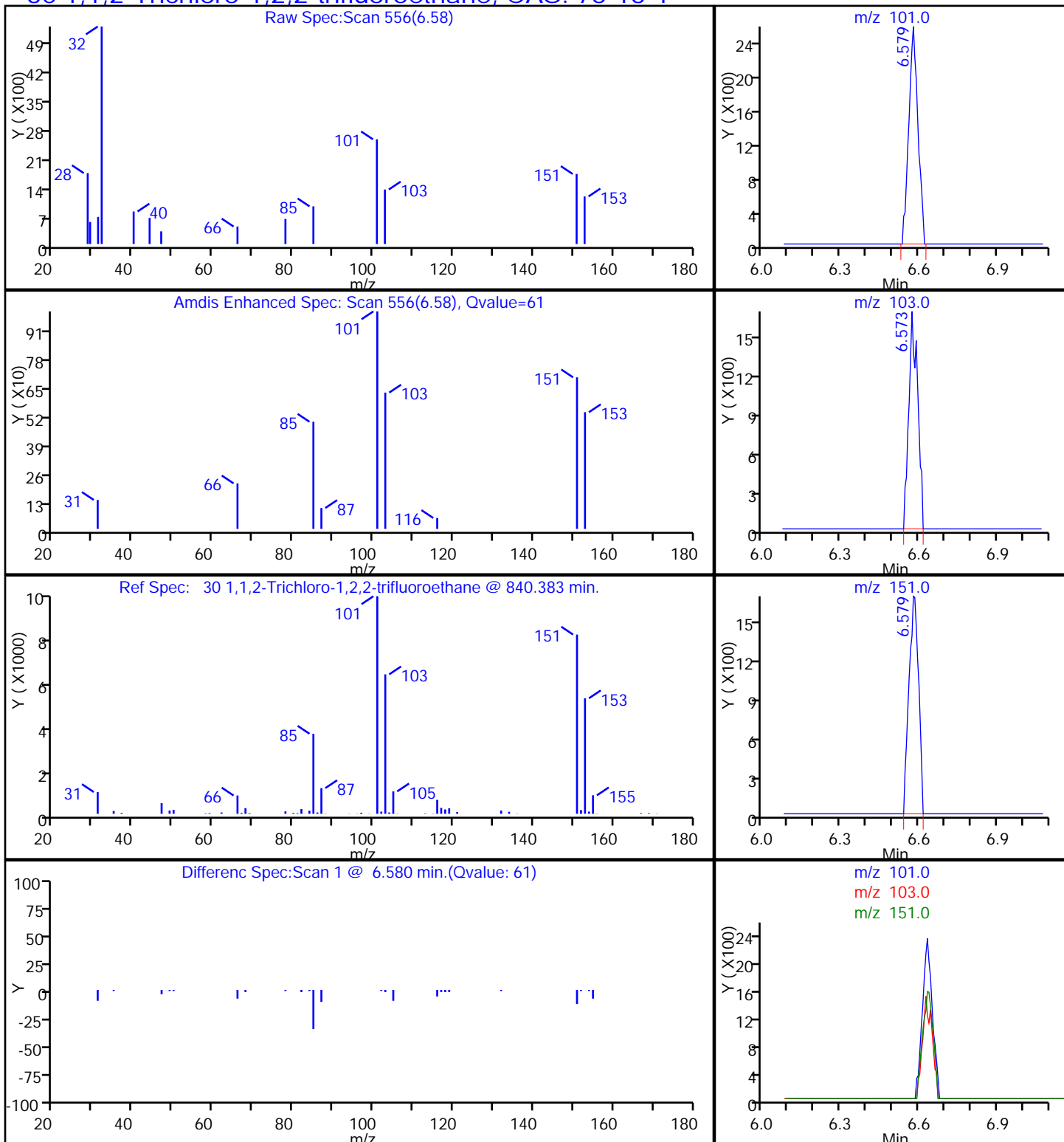
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

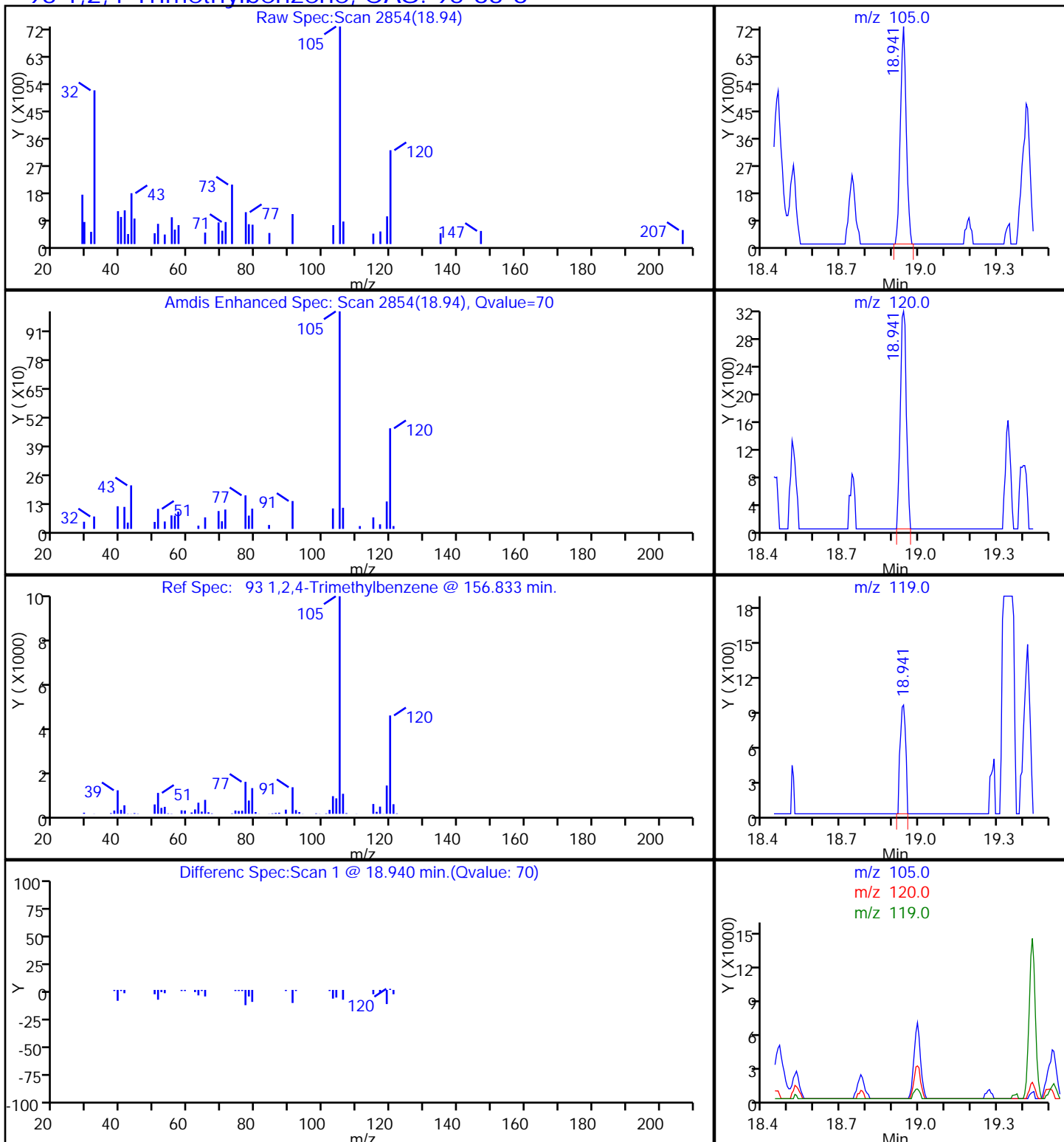
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

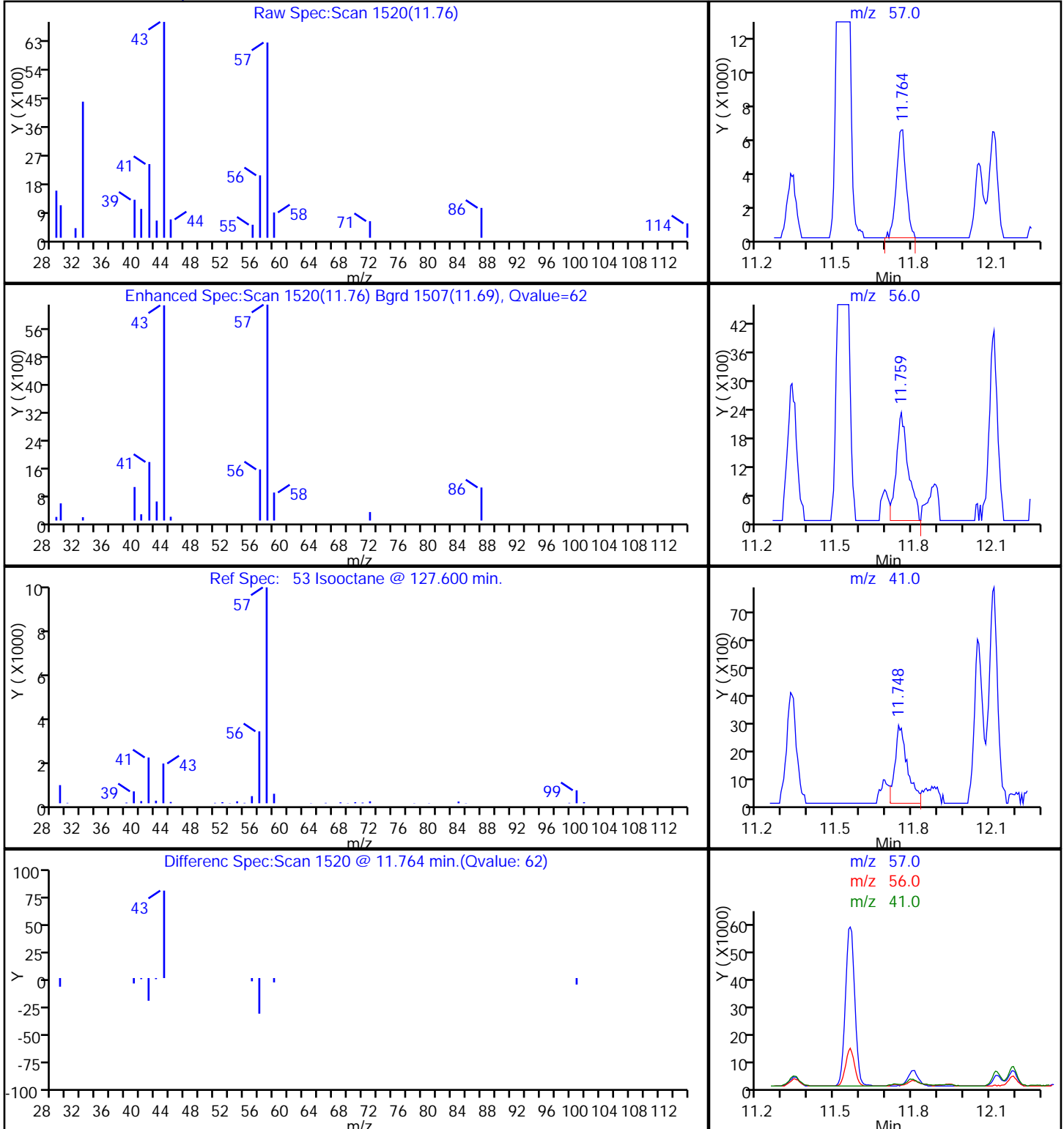
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

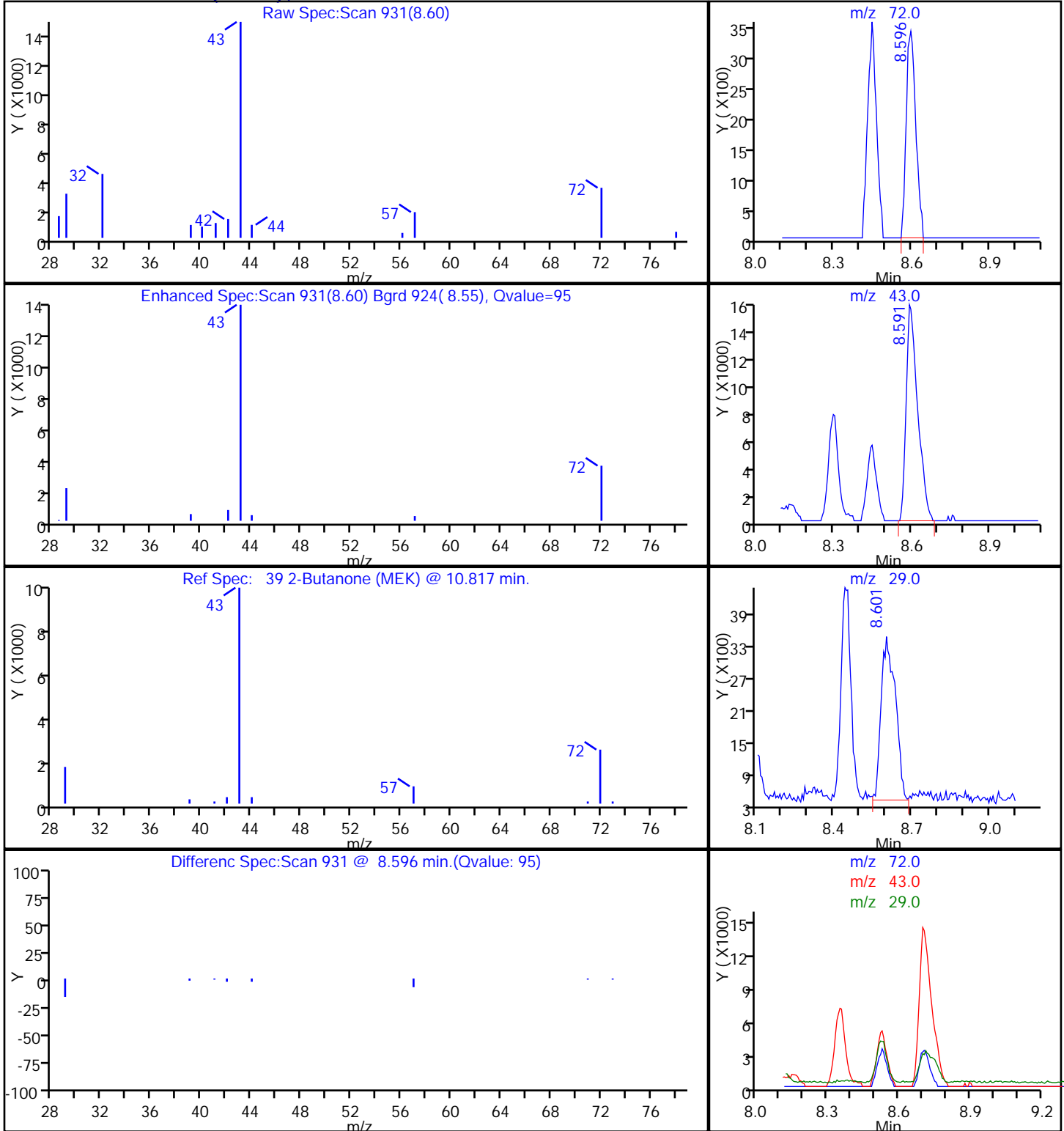
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

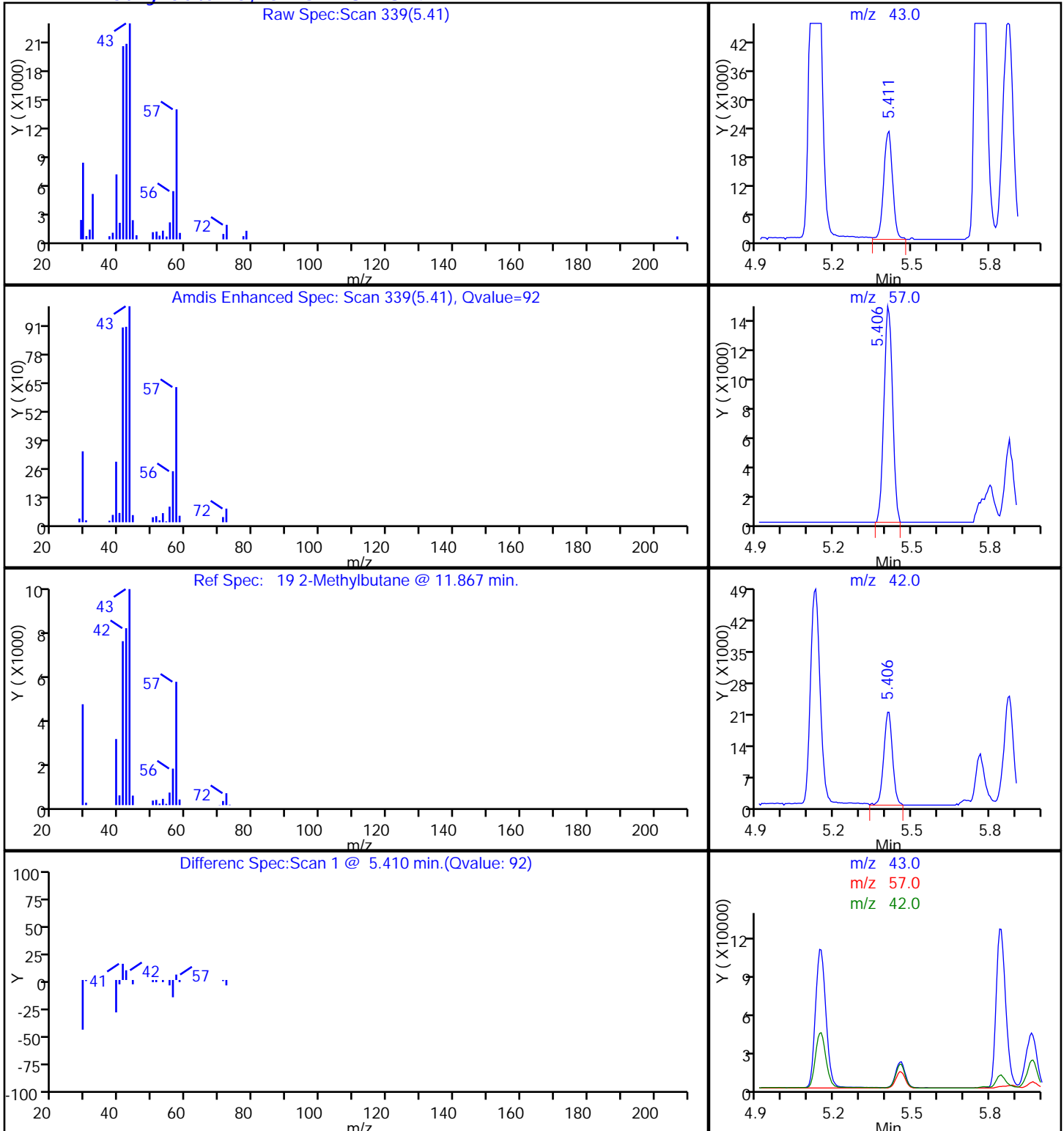
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

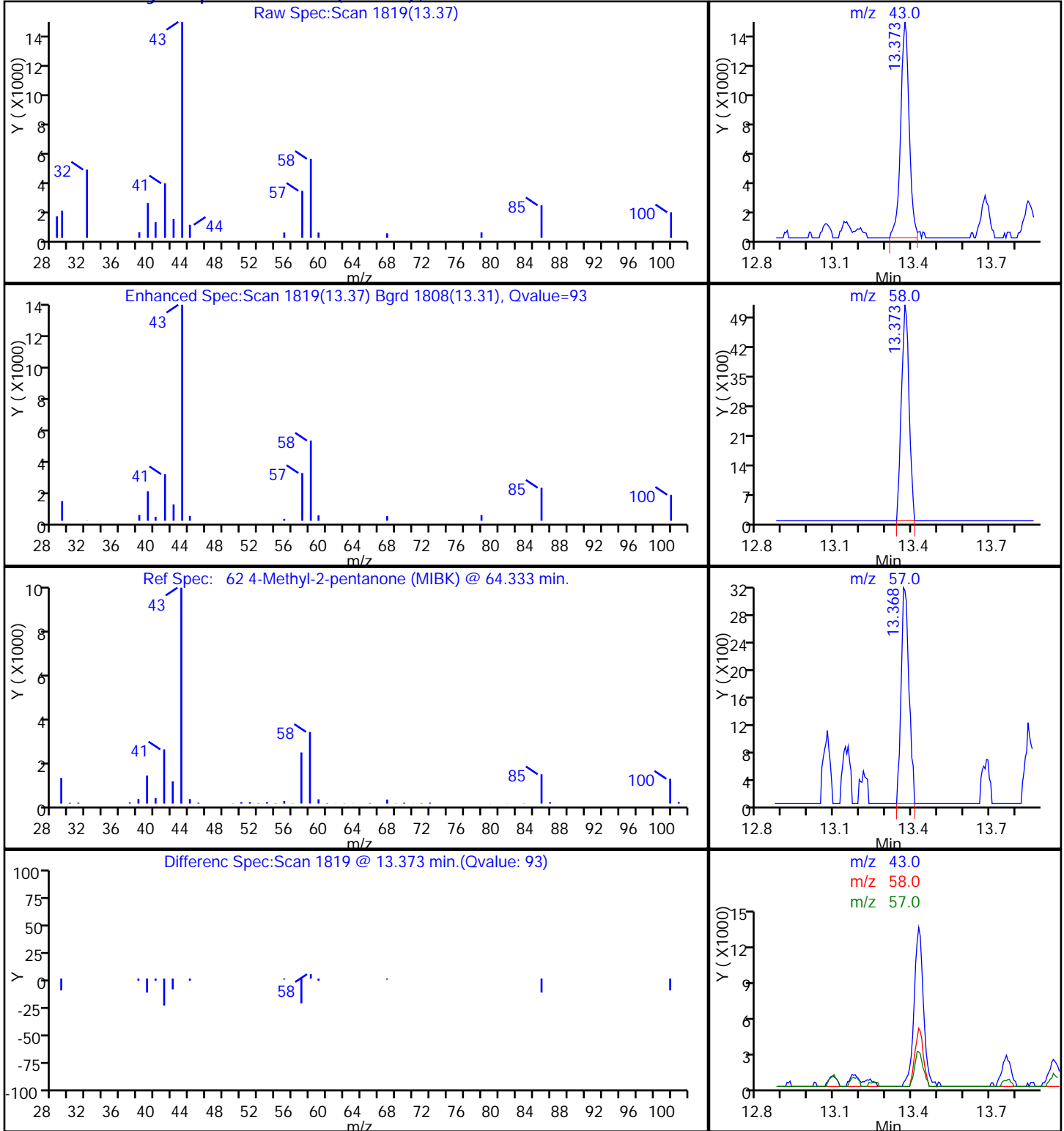
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

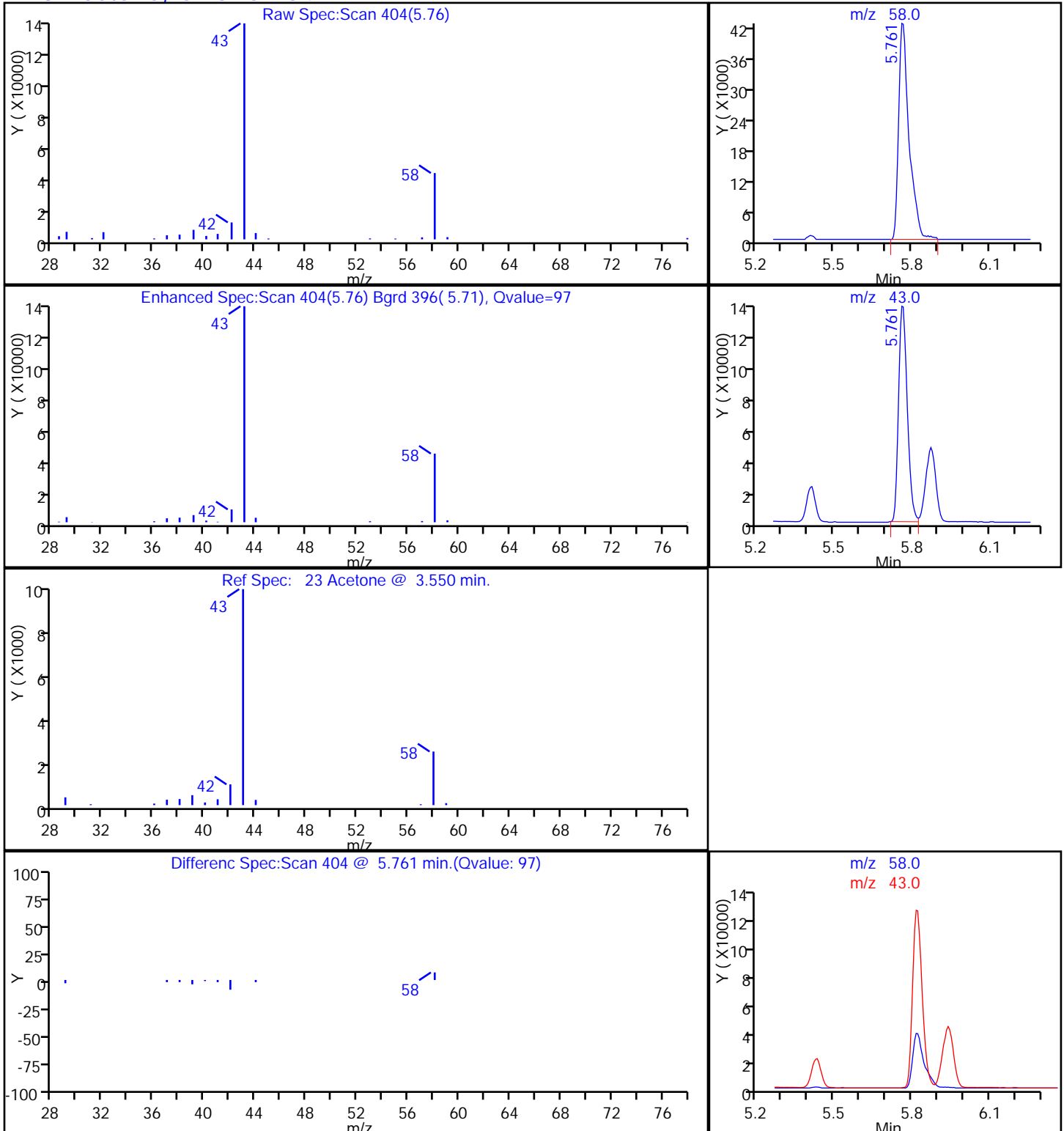
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

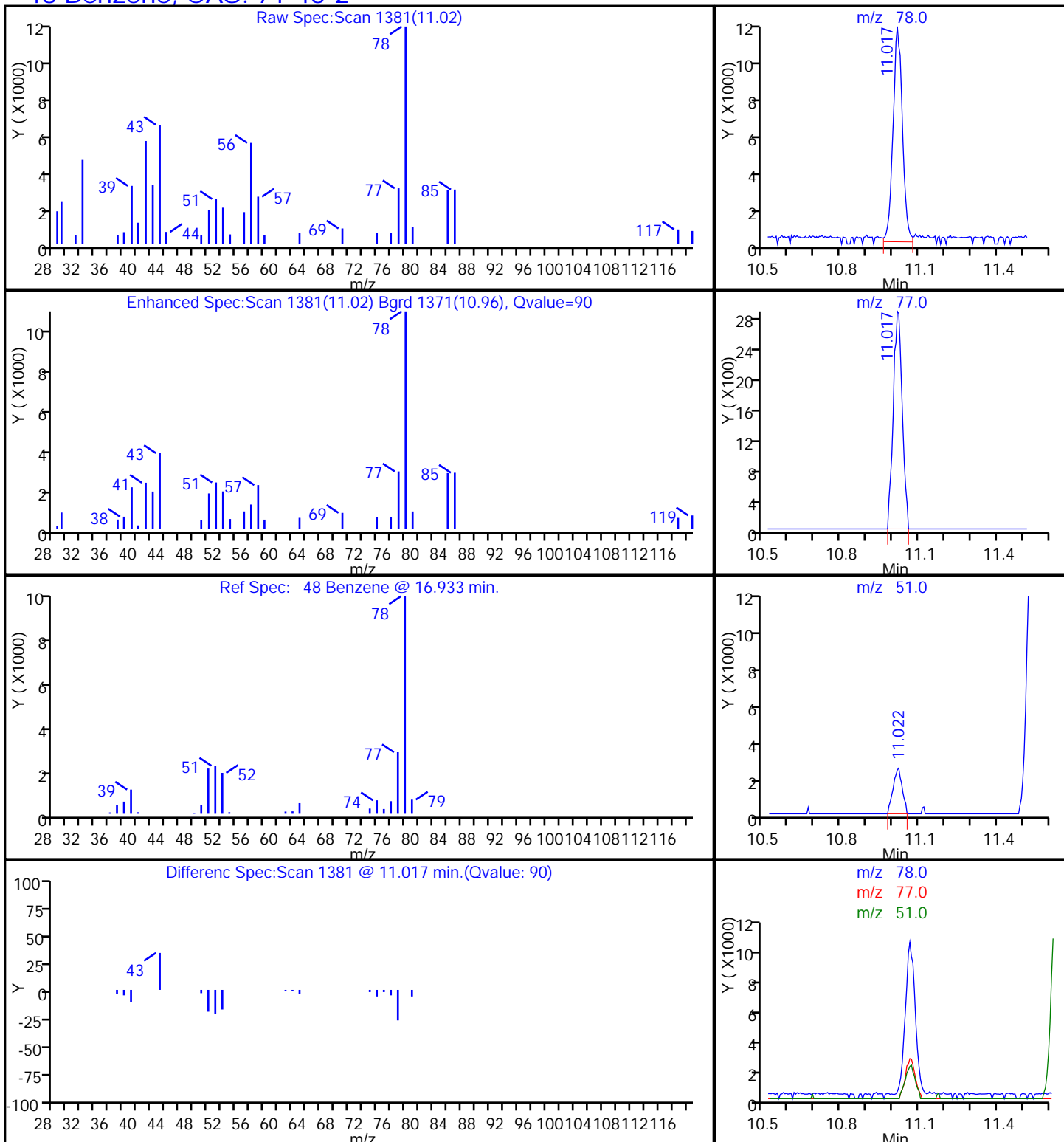
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

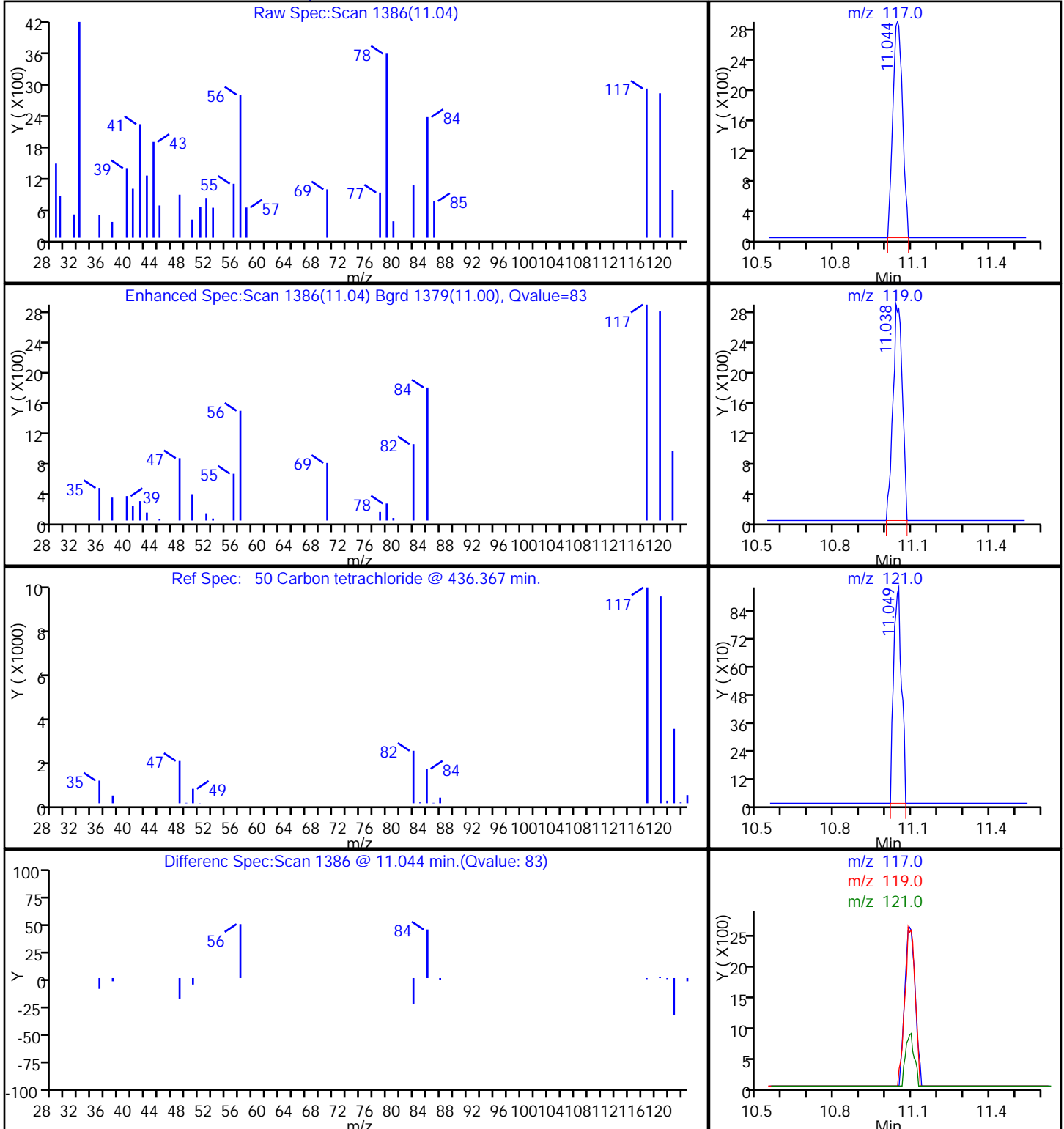
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

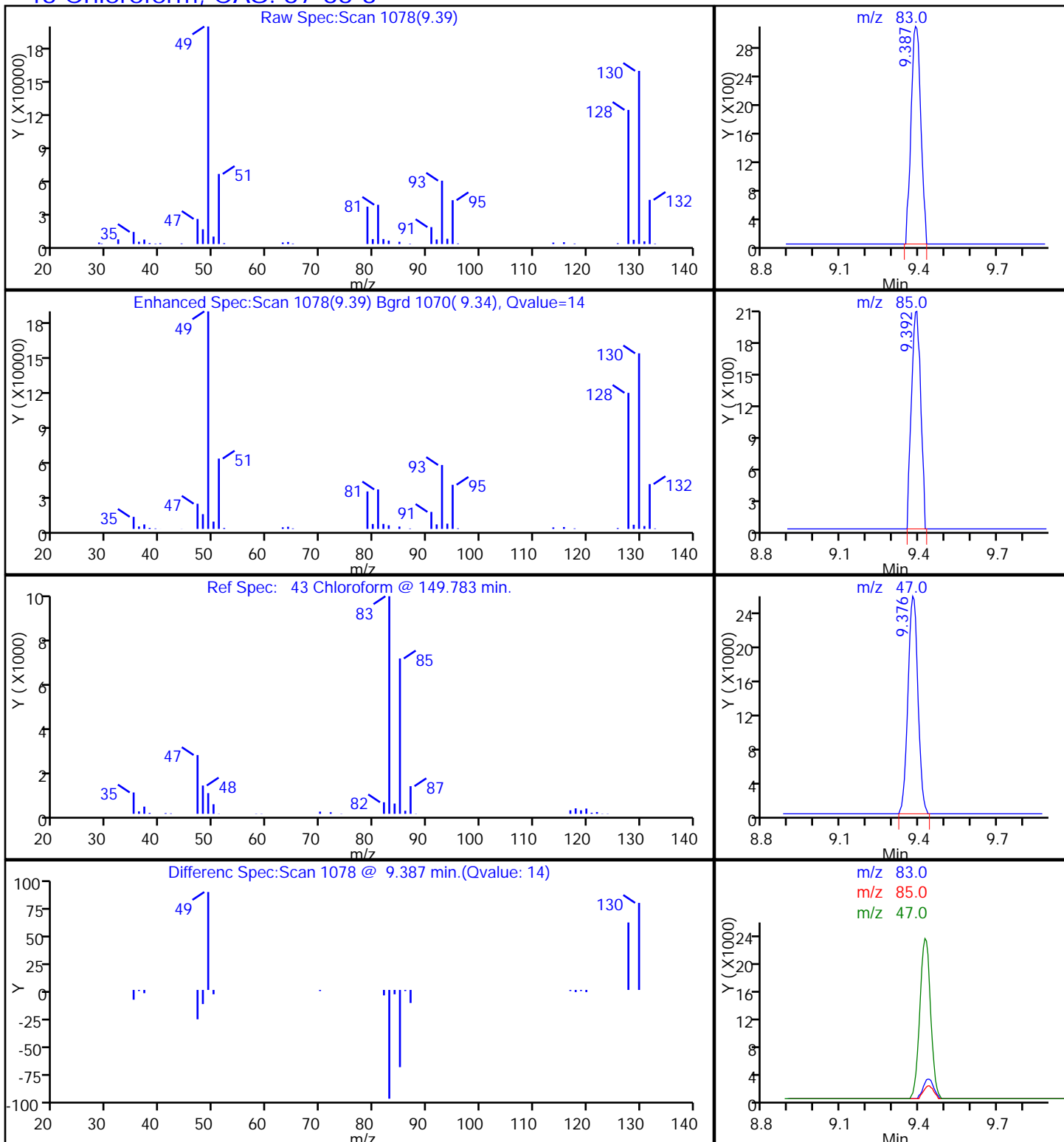
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

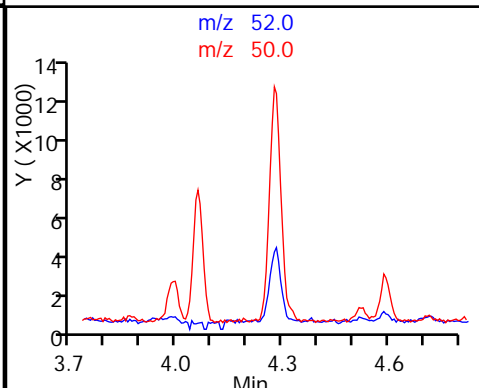
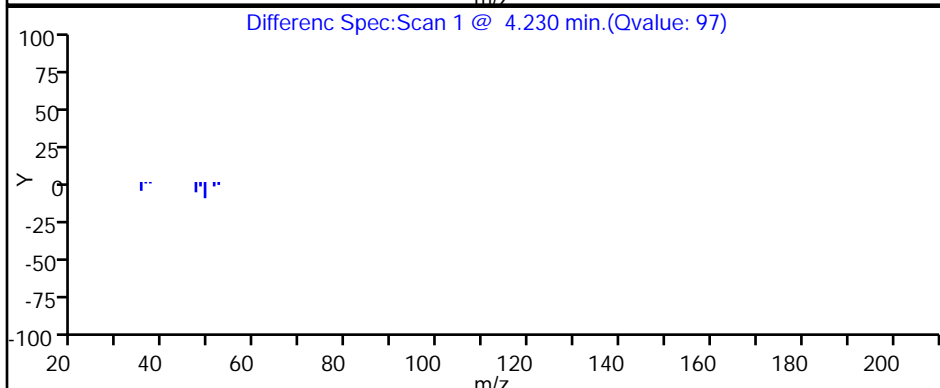
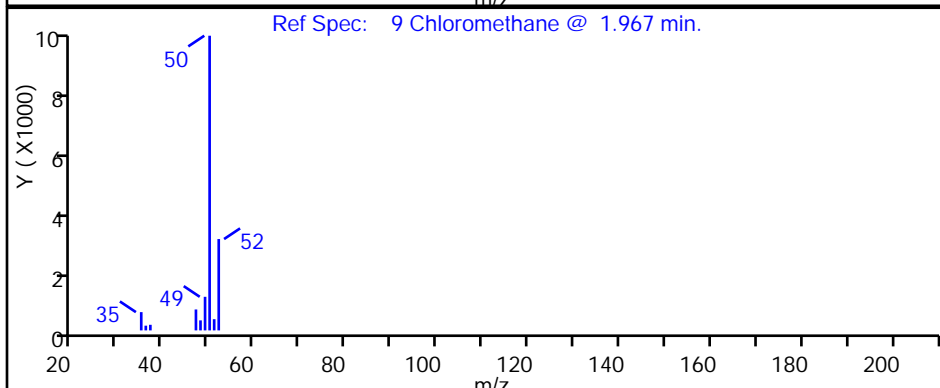
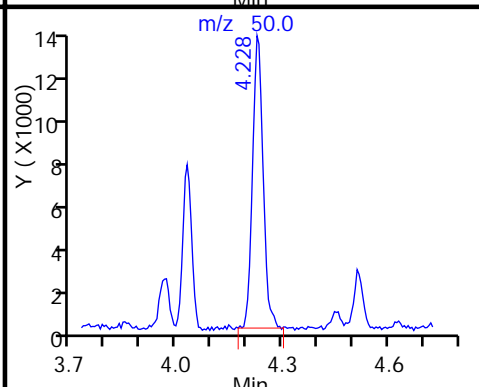
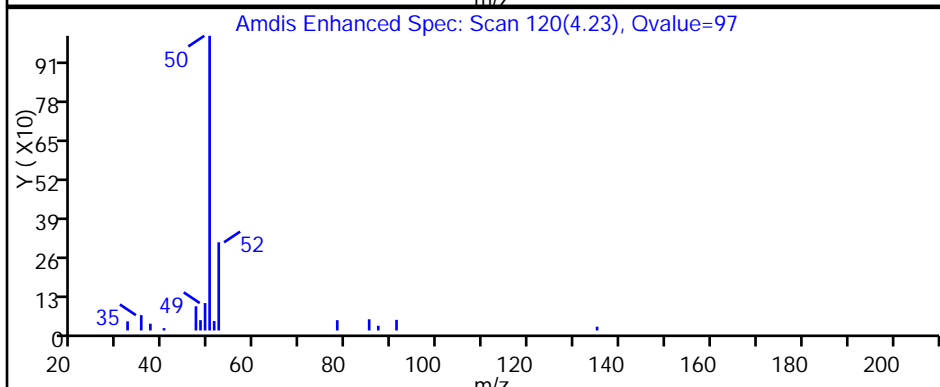
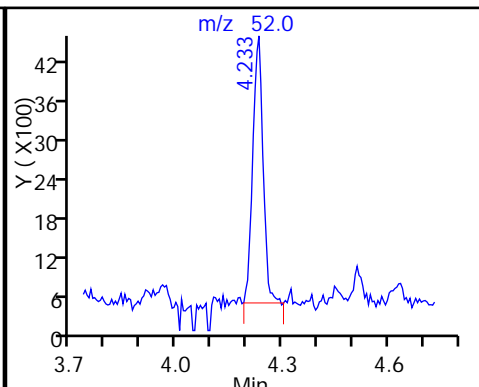
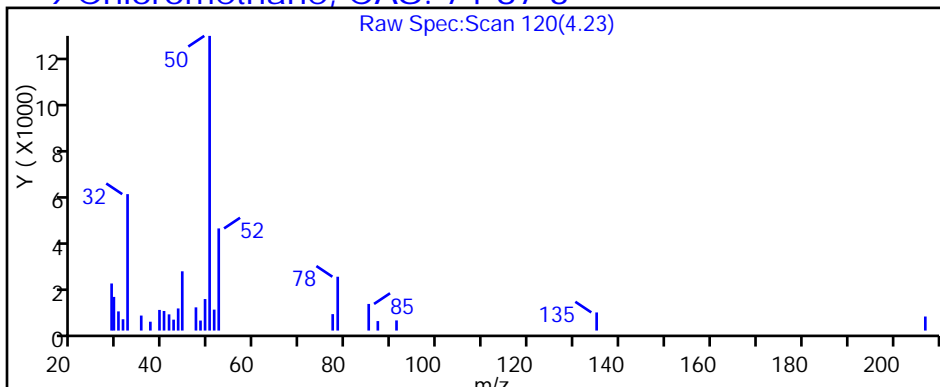
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

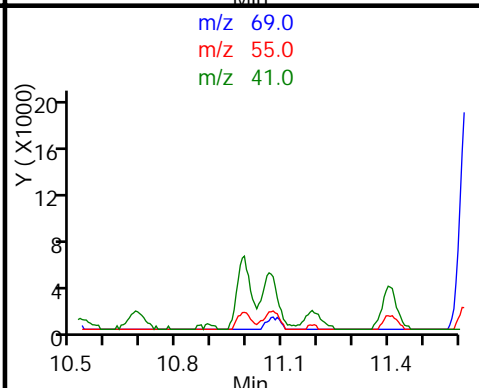
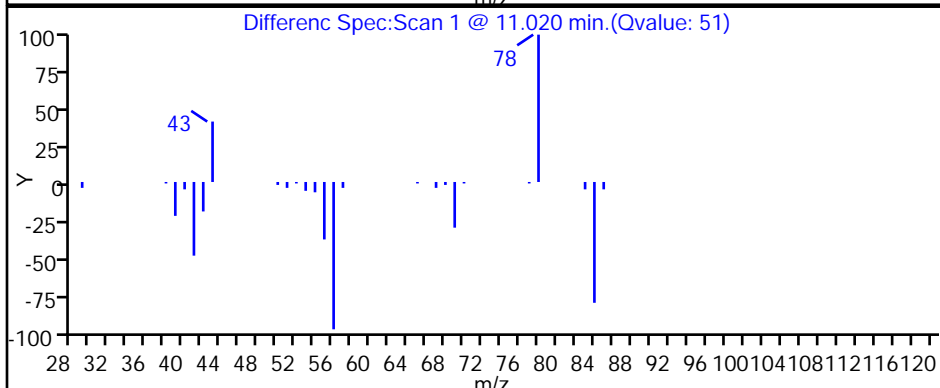
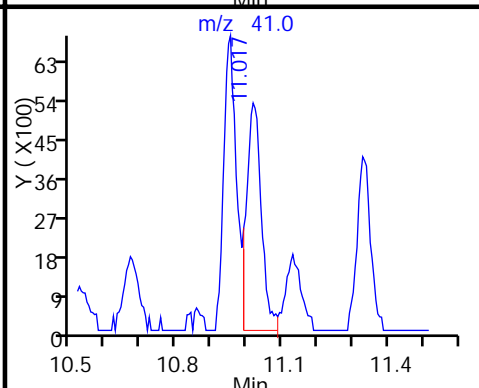
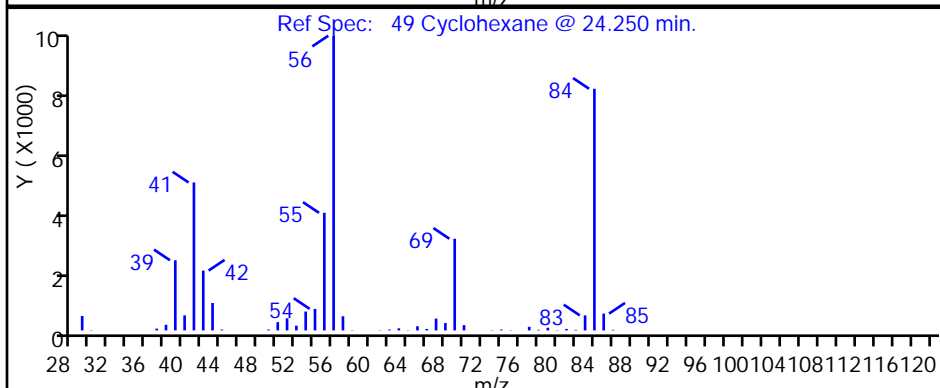
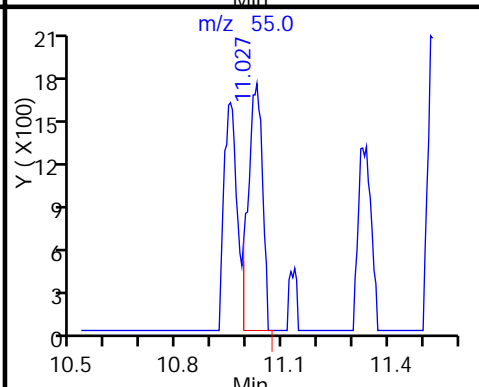
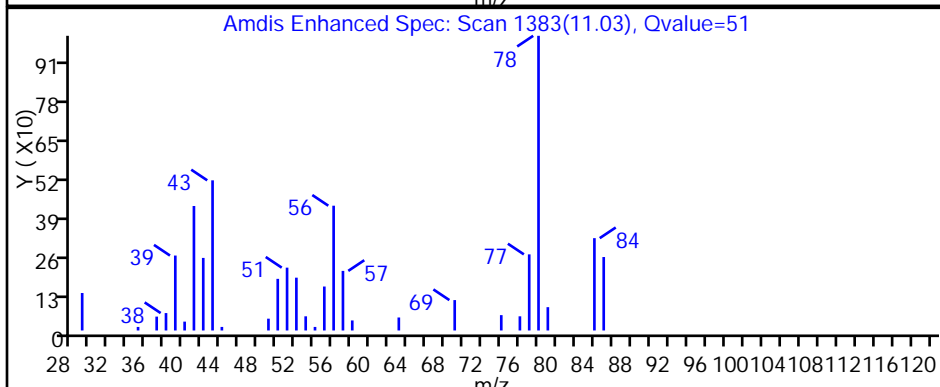
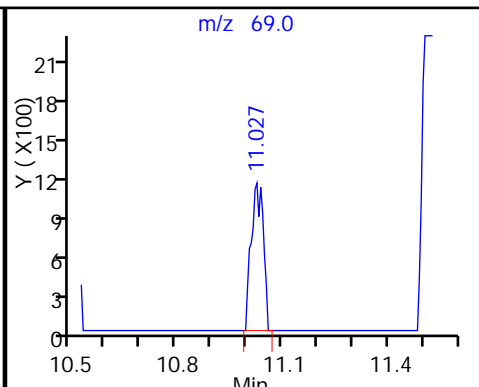
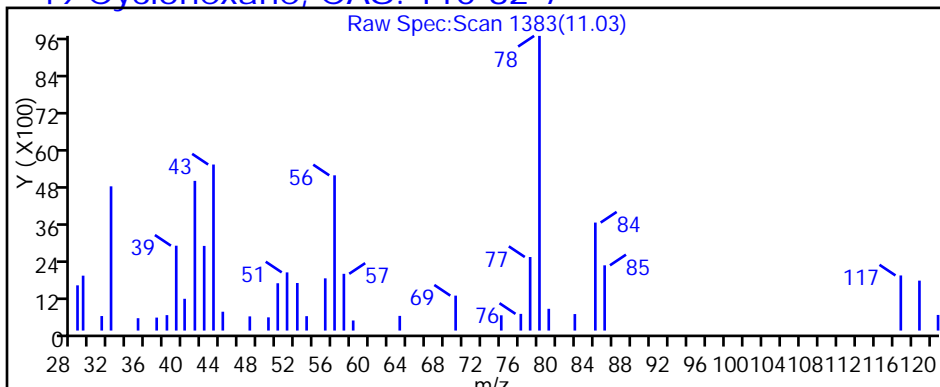
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

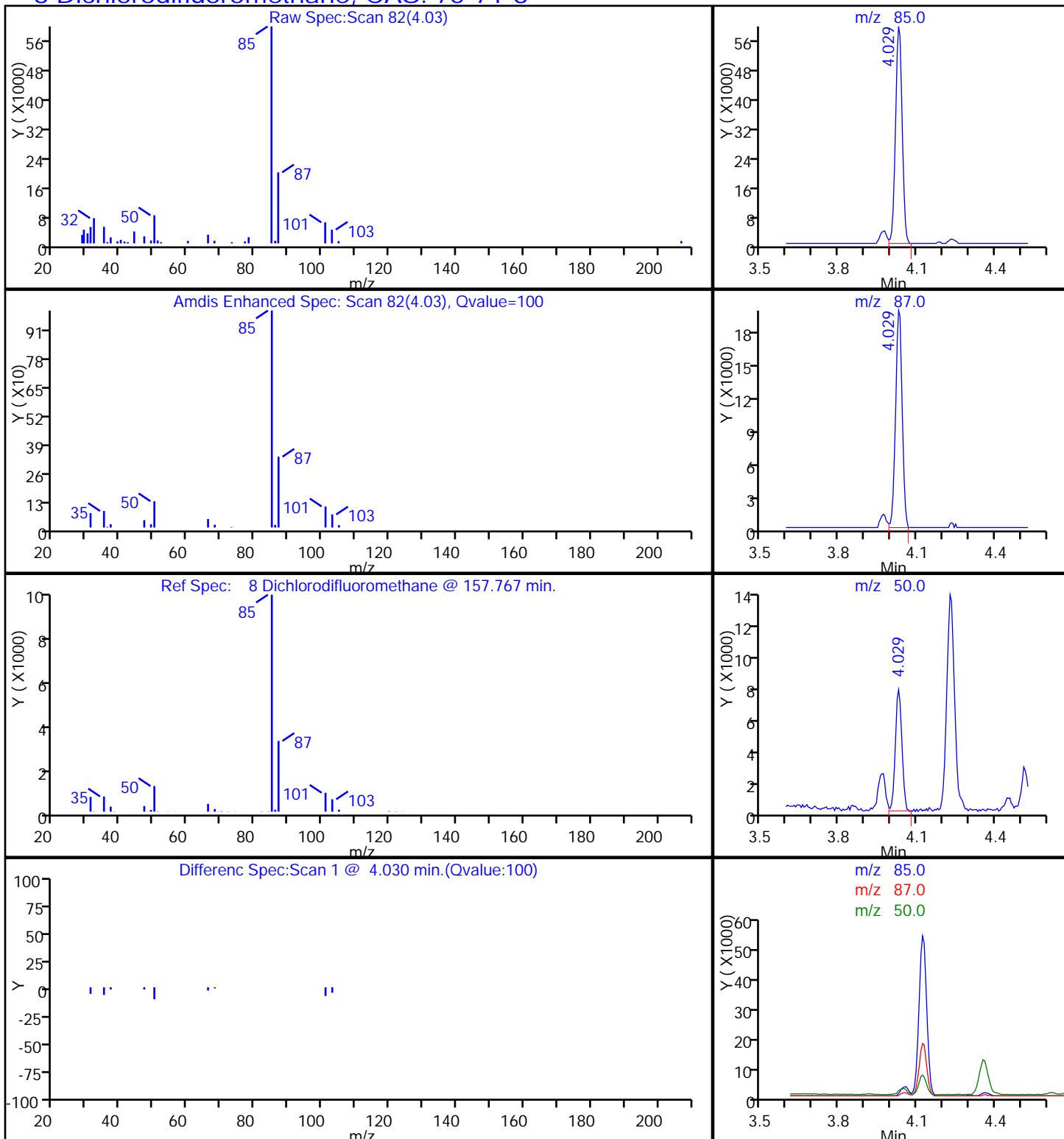
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

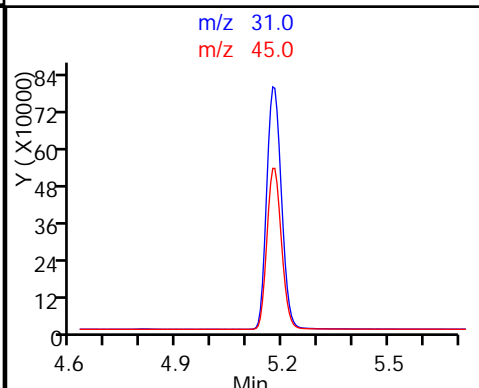
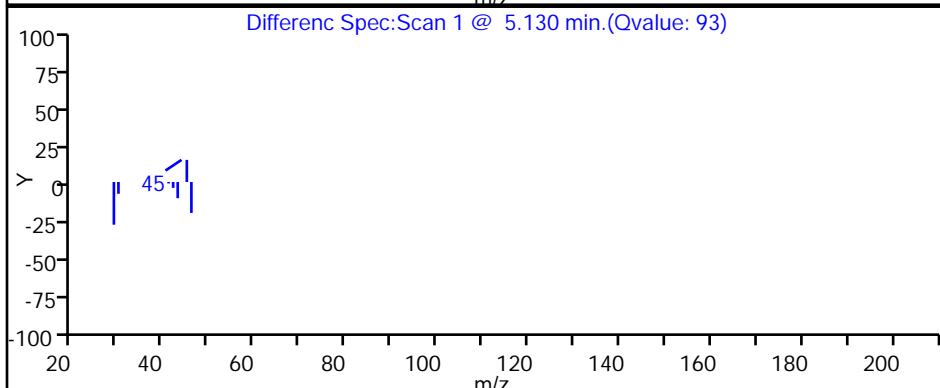
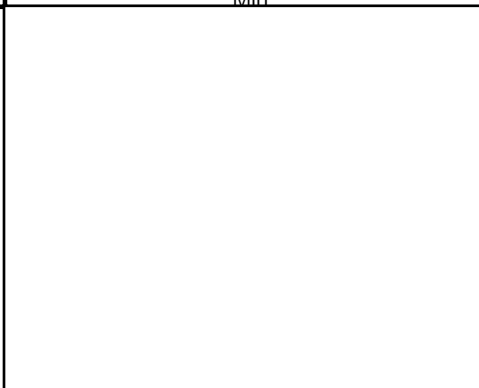
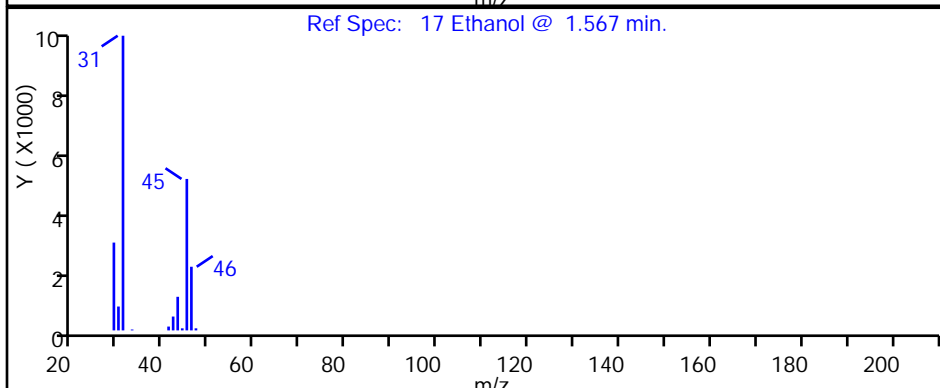
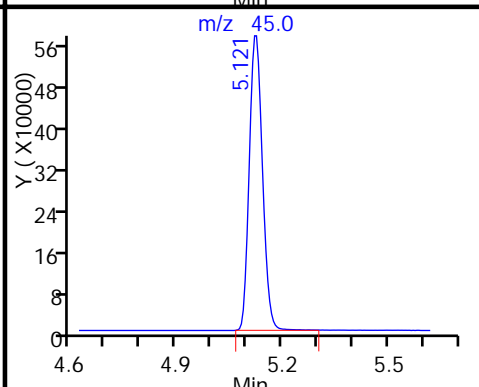
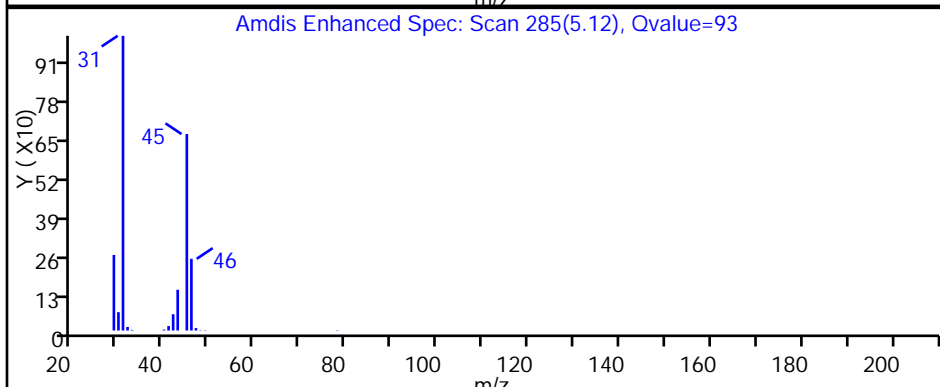
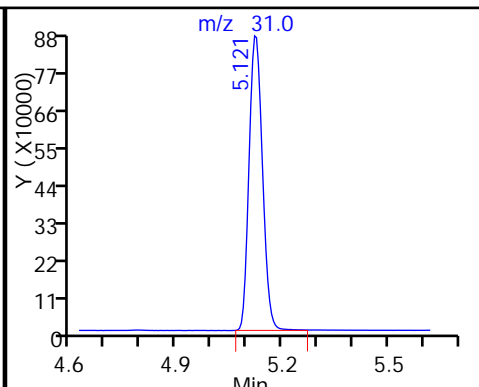
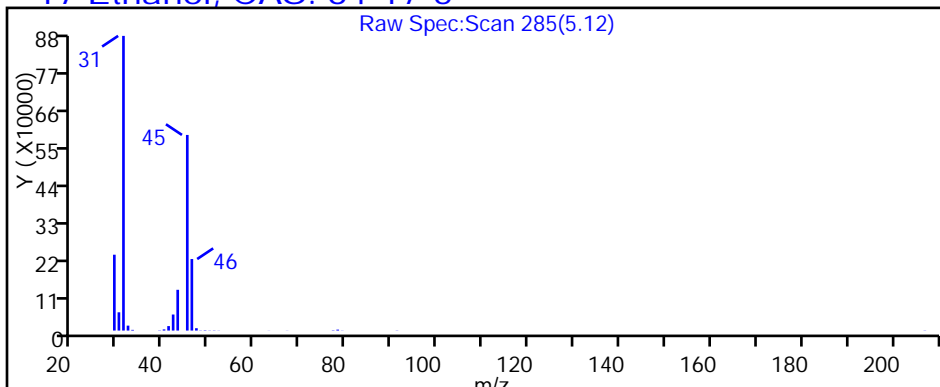
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

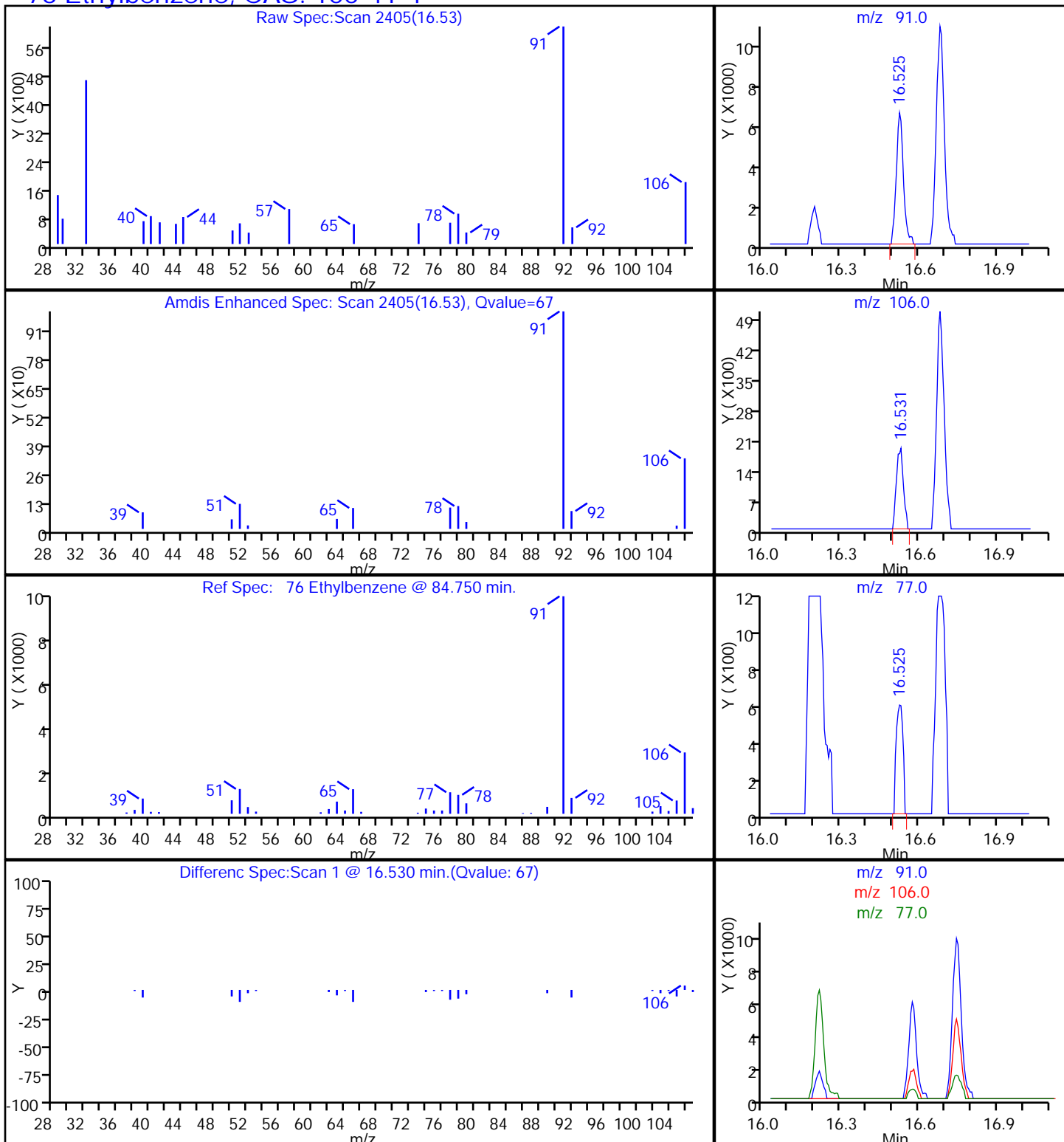
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

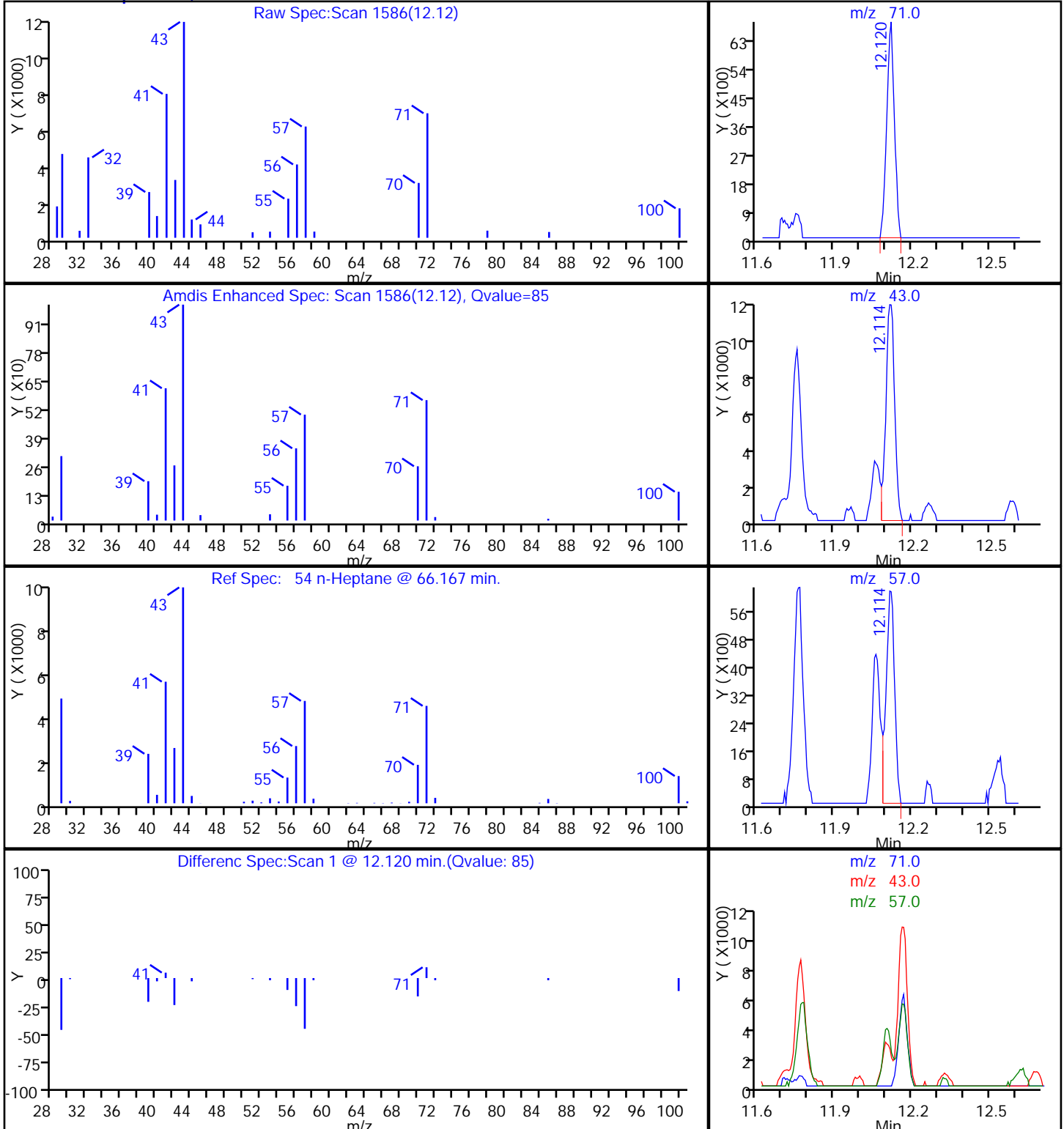
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

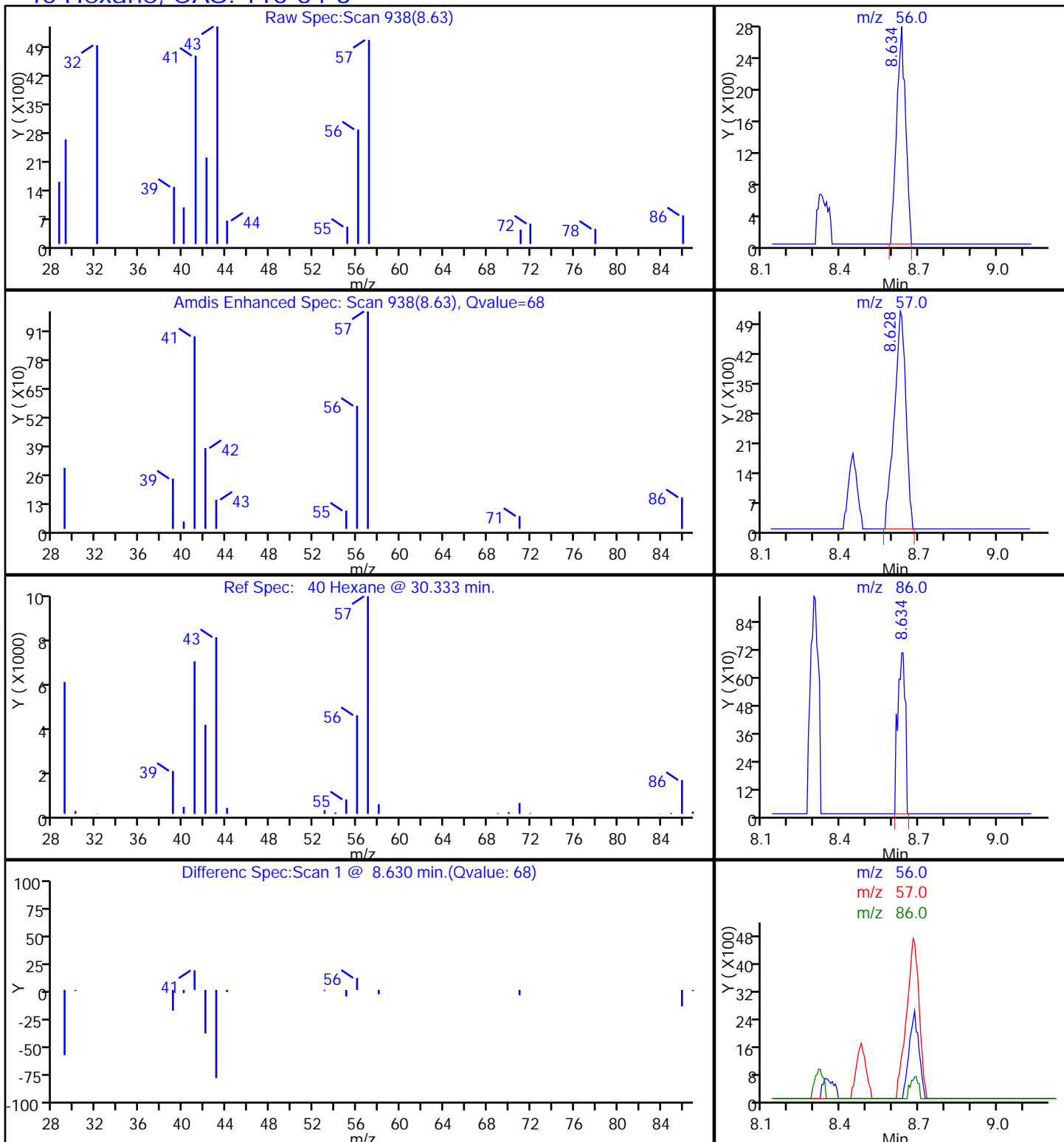
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

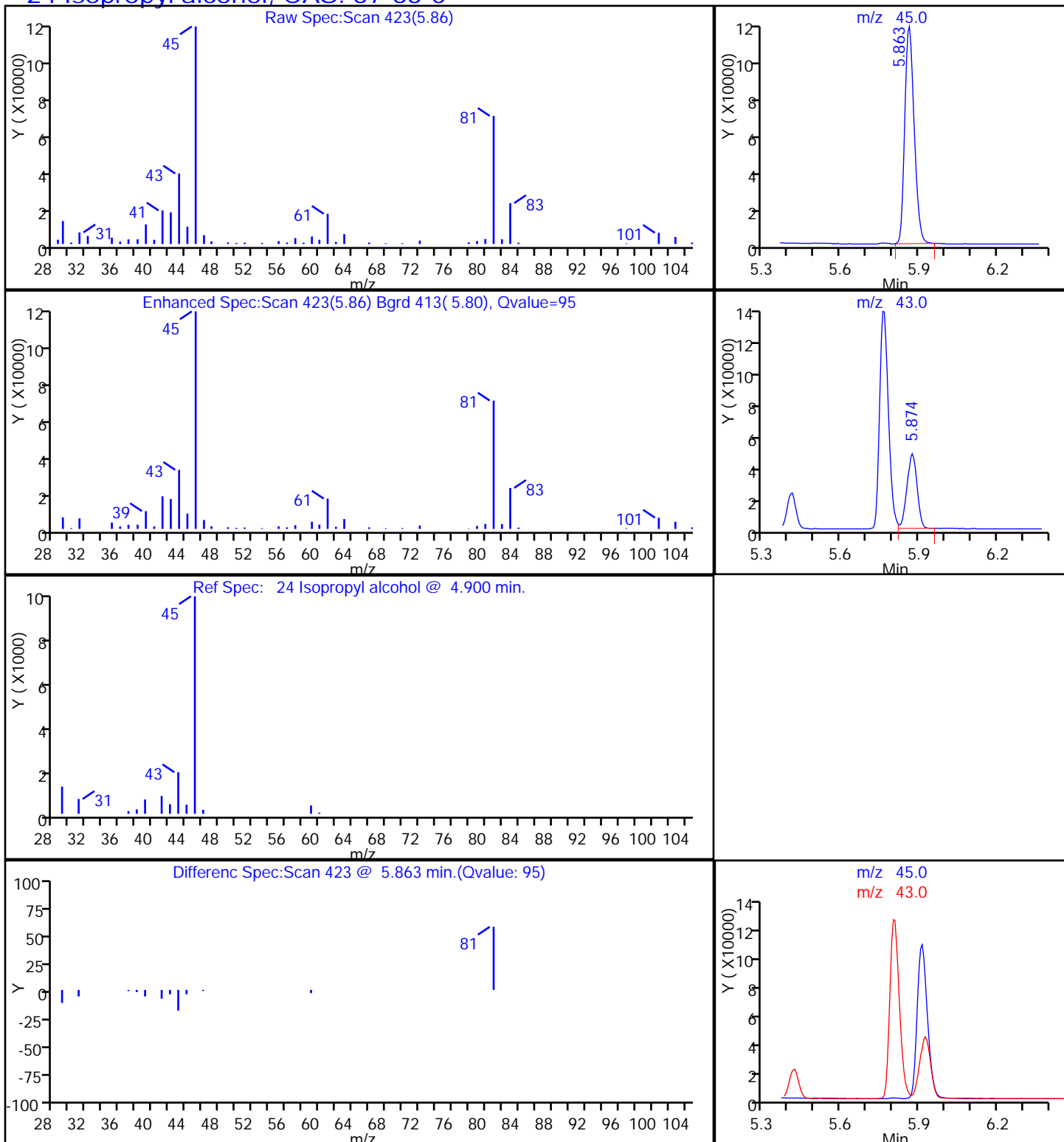
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

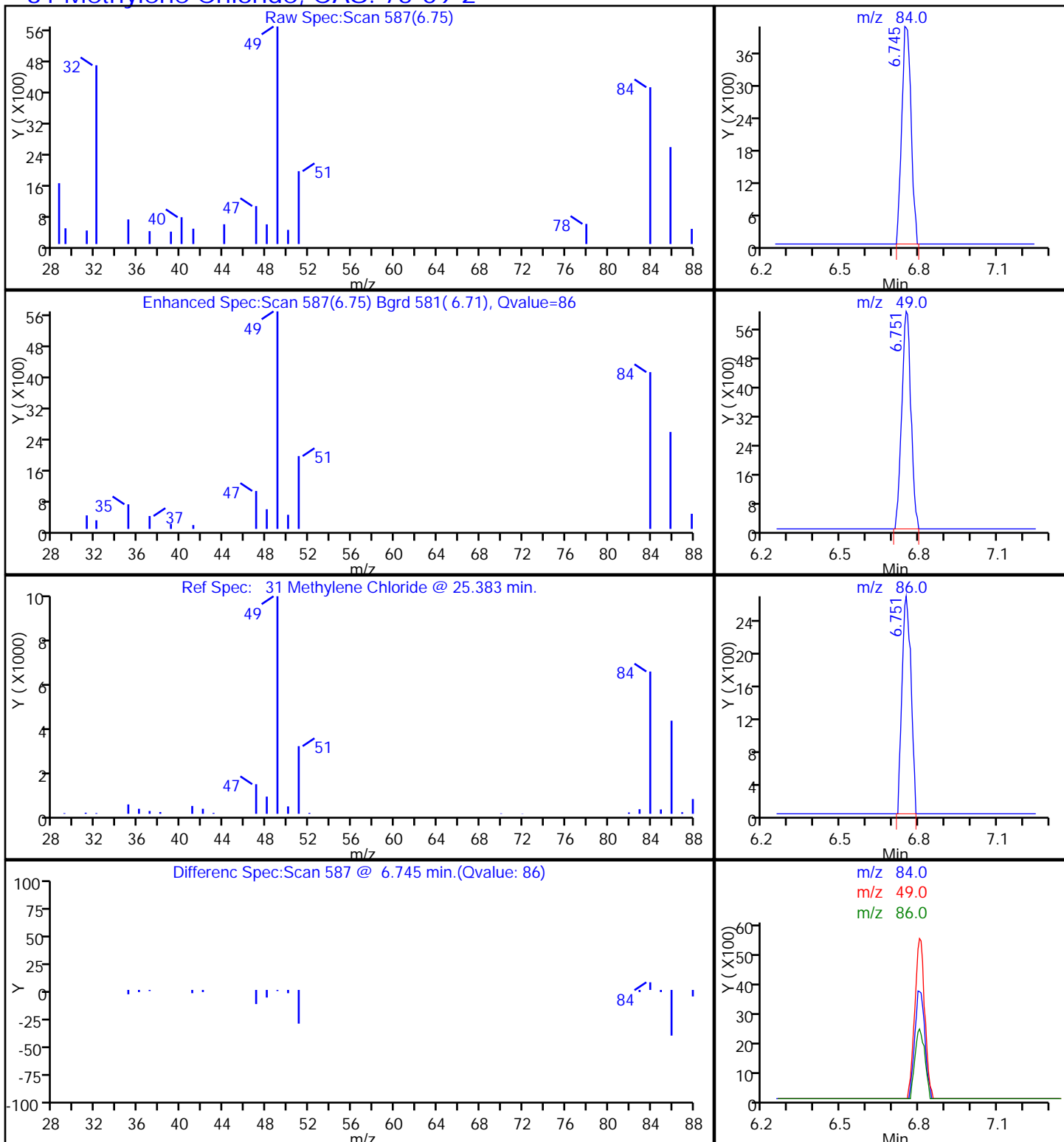
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

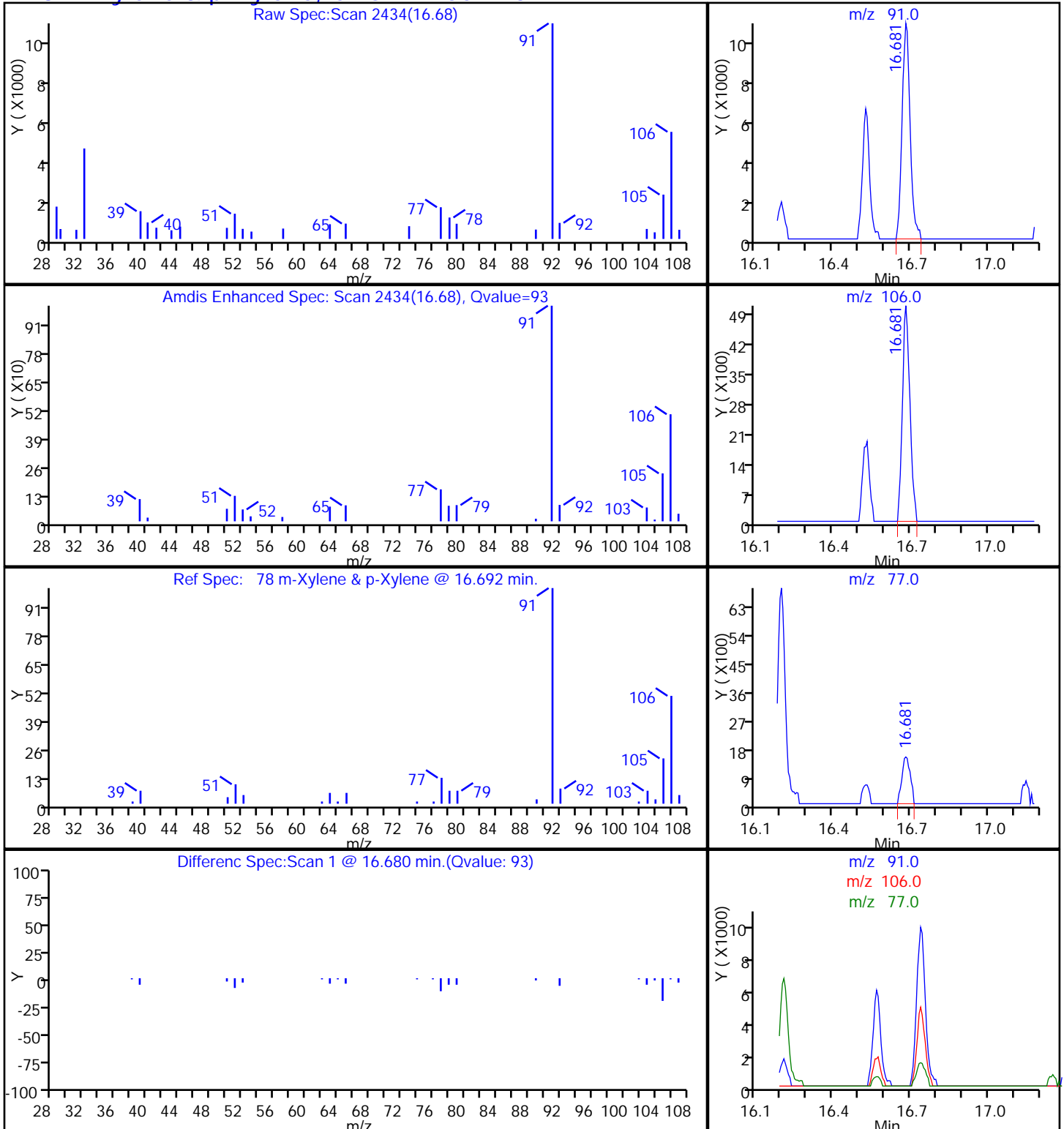
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

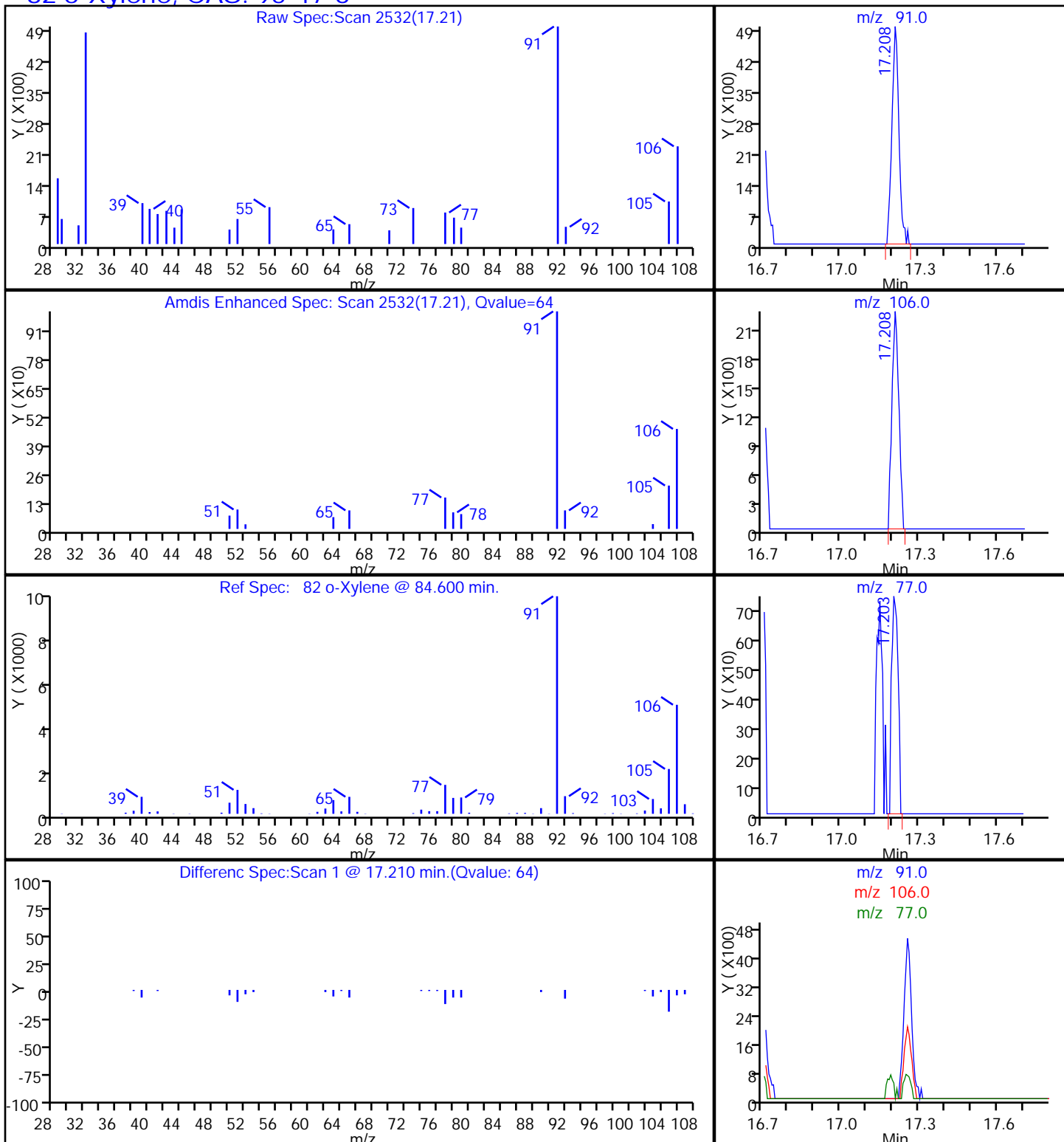
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

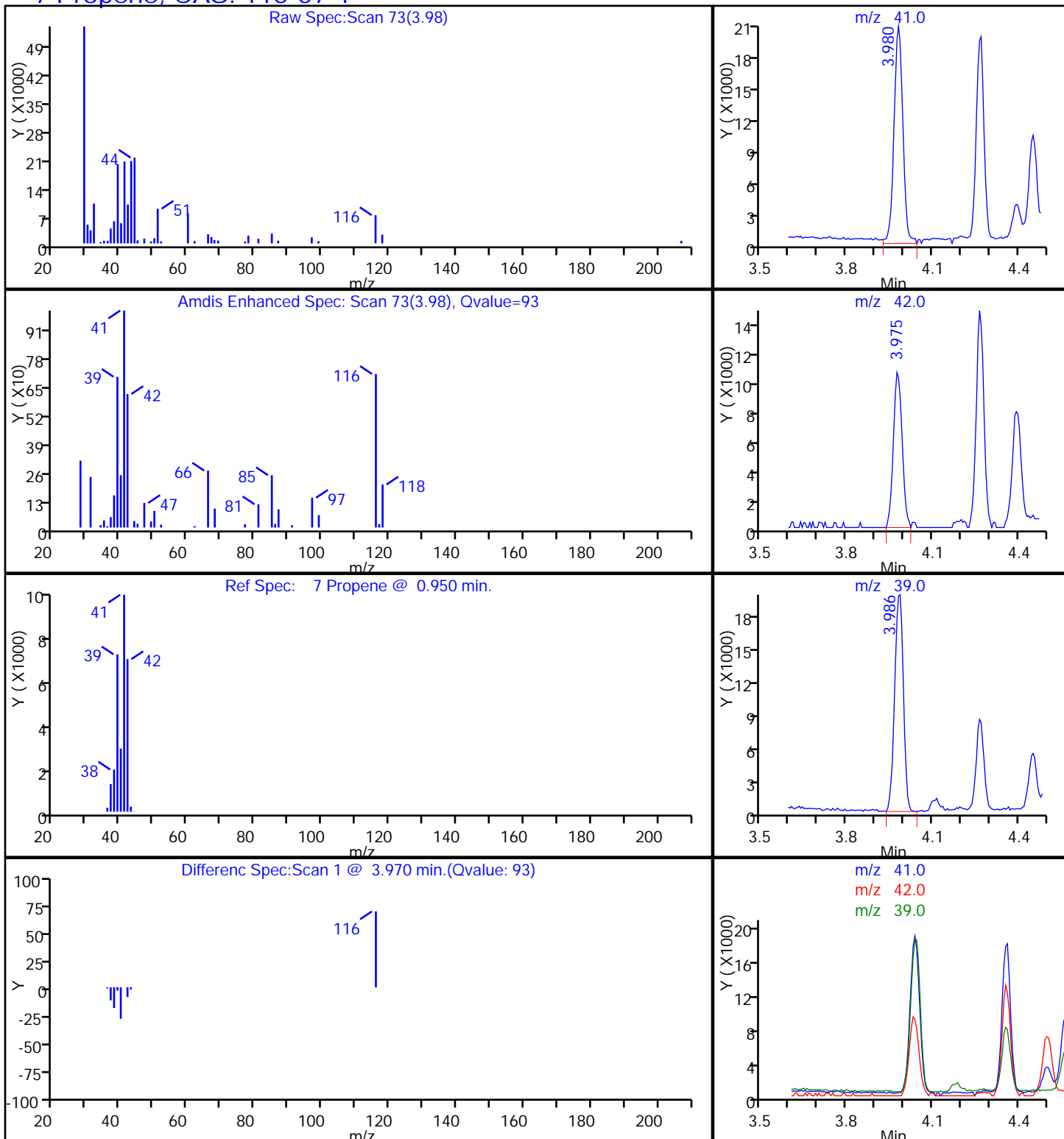
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

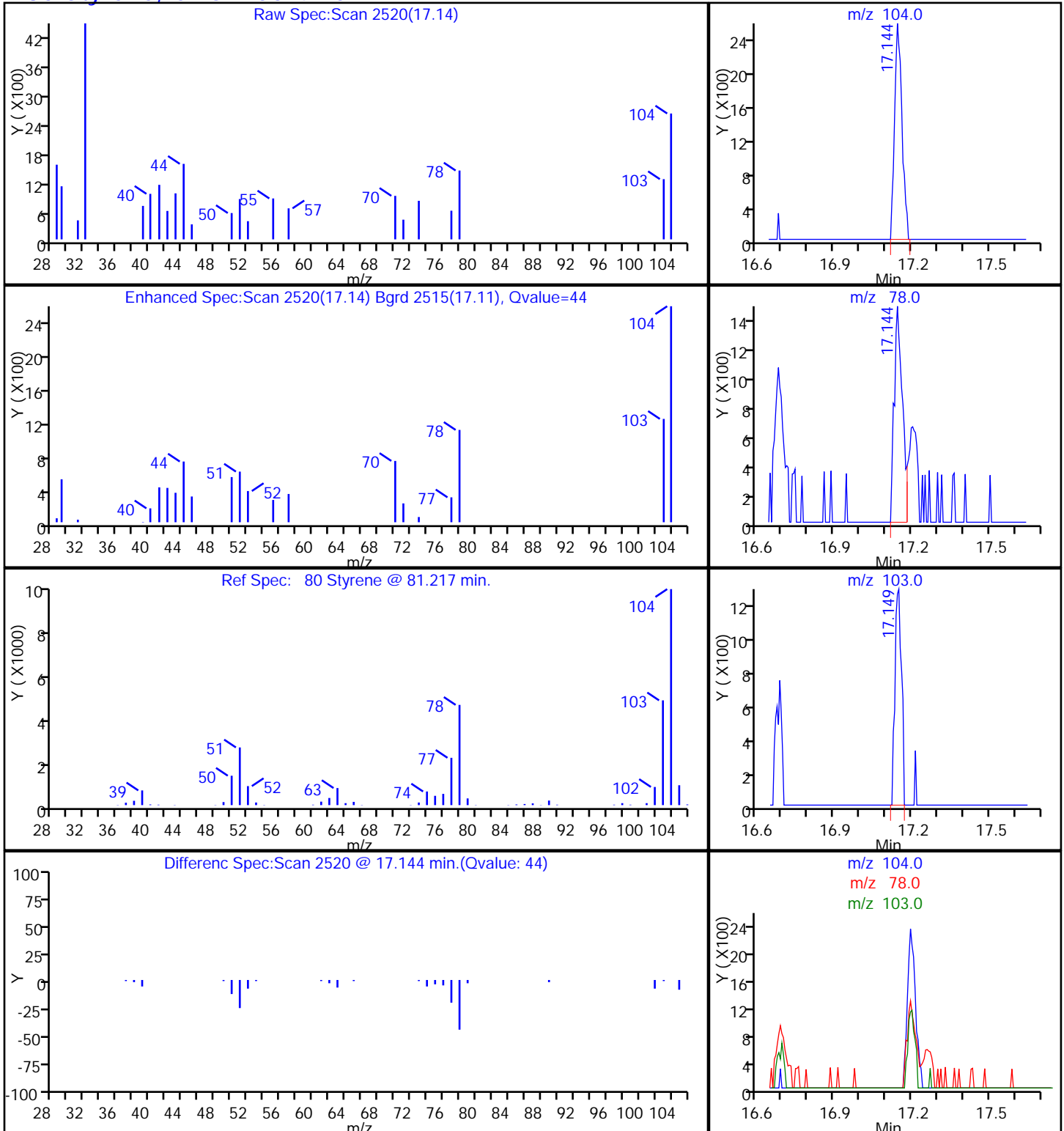
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

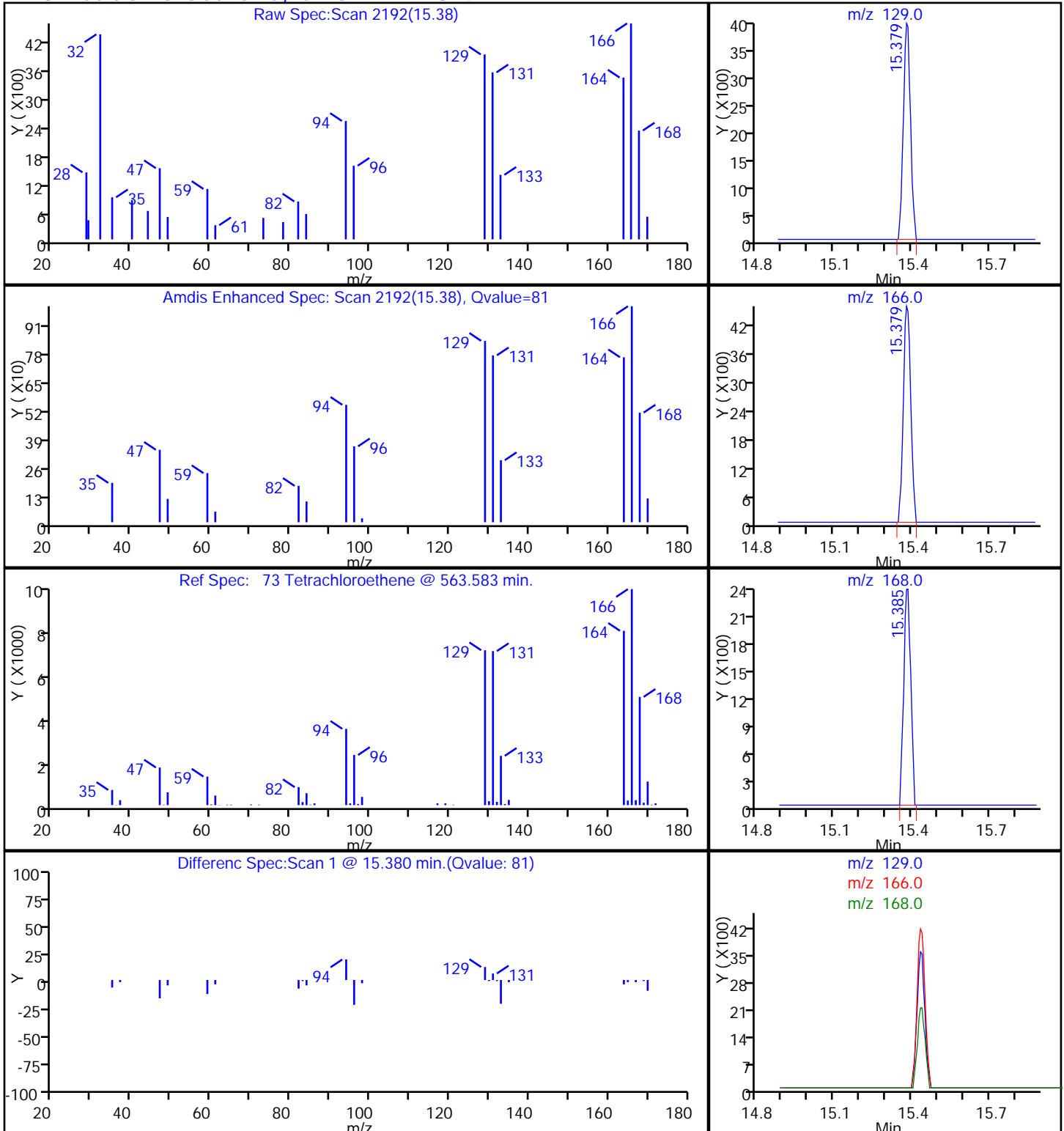
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

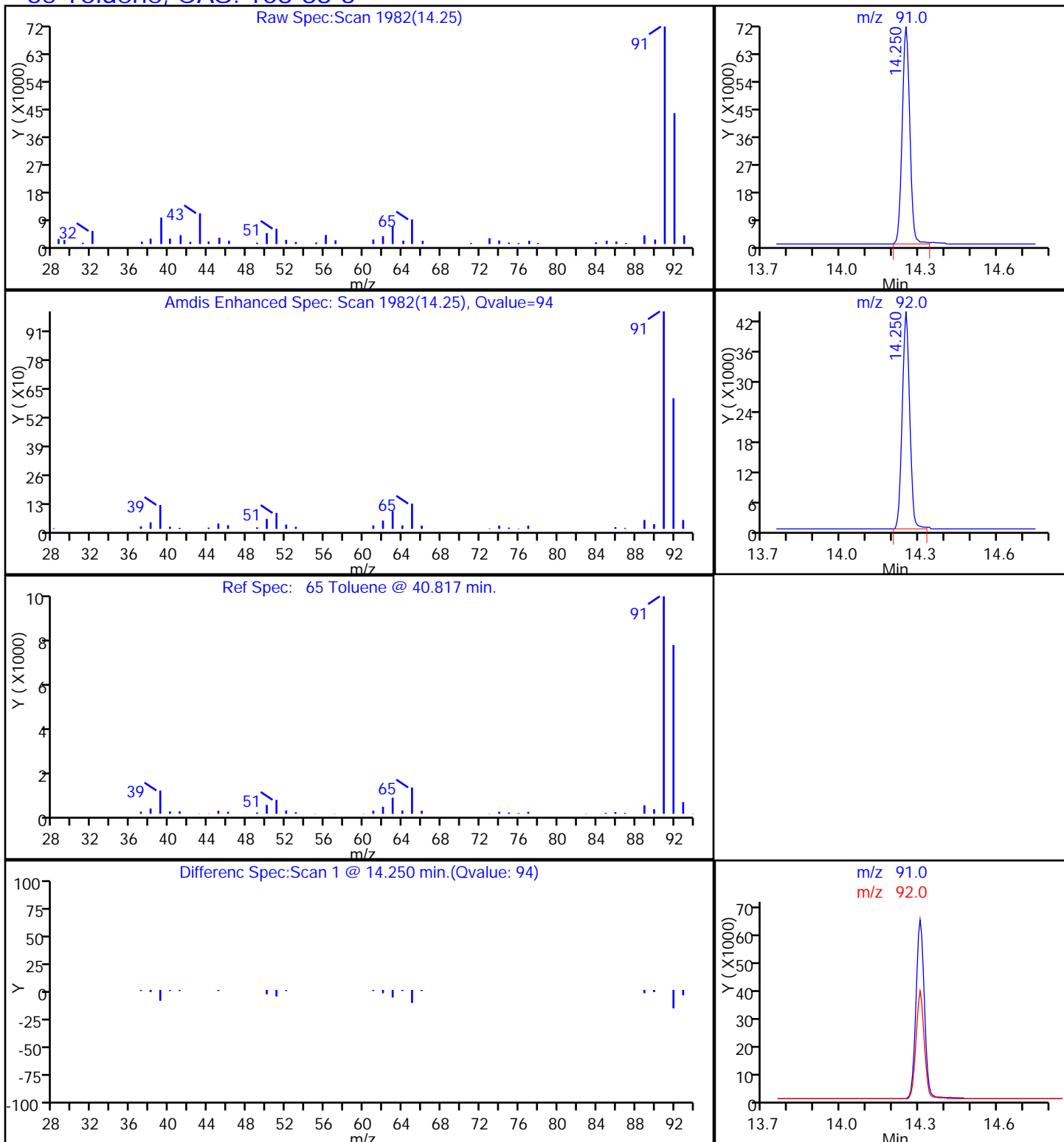
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P112.D

Injection Date: 20-Mar-2014 03:37:30

Instrument ID: MJ

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

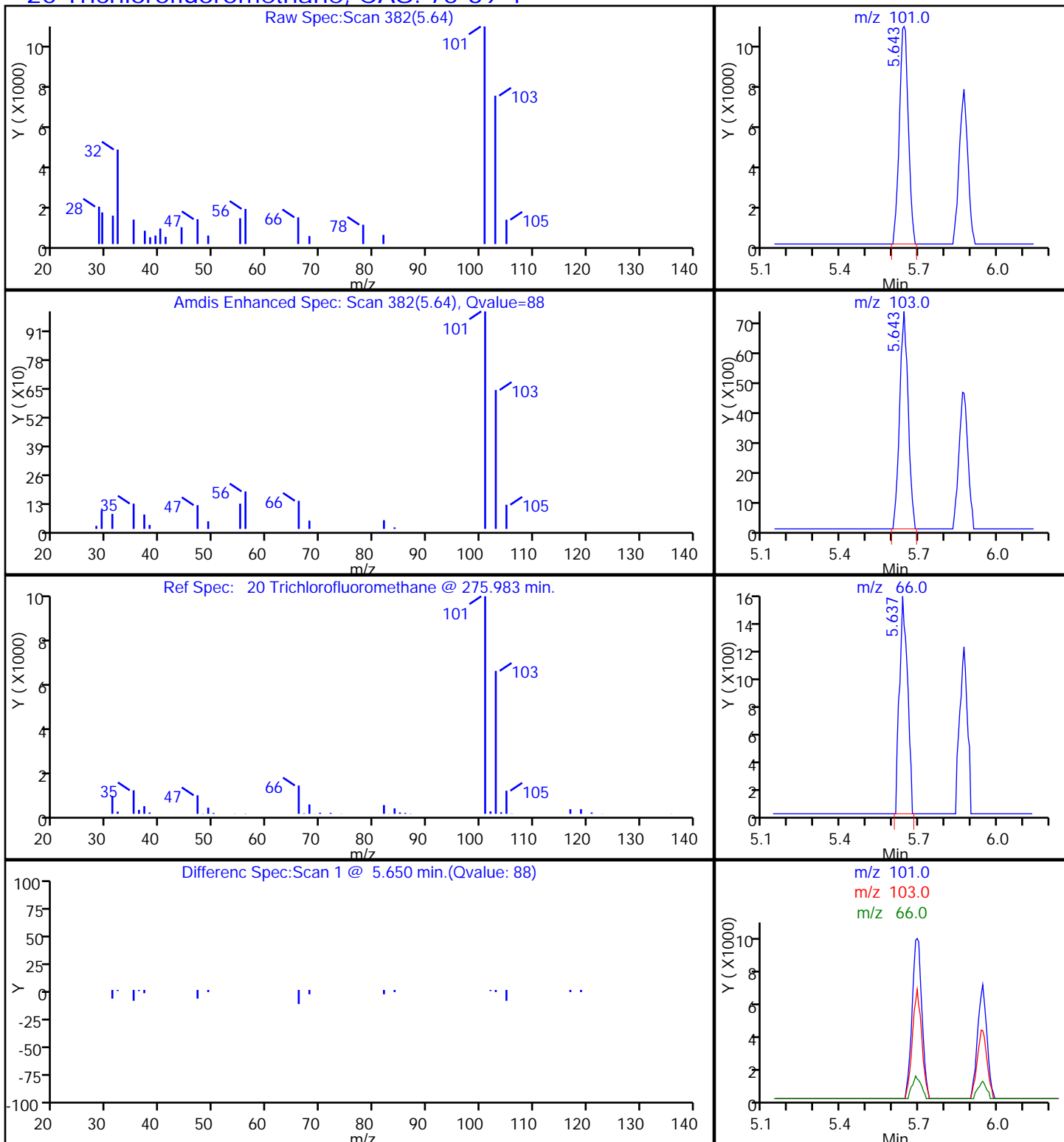
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 DL Lab Sample ID: 140-1065-2 DL
 Matrix: Air Lab File ID: RC20P115.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 100 (mL) Date Analyzed: 03/21/2014 02:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	190		4.0	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 3- ROOM # 2 DL Lab Sample ID: 140-1065-2 DL
 Matrix: Air Lab File ID: RC20P115.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:25
 Sample wt/vol: 100 (mL) Date Analyzed: 03/21/2014 02:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	360		7.5	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RC20P115.D
 Lims ID: 140-1065-A-2 Lab Sample ID: 140-1065-2
 Client ID: SAMPLE 3- ROOM # 2
 Sample Type: Client
 Inject. Date: 21-Mar-2014 02:57:30 ALS Bottle#: 15 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1065-a-2
 Misc. Info.: R032014,TO15,140-0000535-021
 Operator ID: 7126 Instrument ID: MR
 Method: \\KNXCHROM\ChromData\MR\20140319-535.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 08:10:15 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 21-Mar-2014 08:10:54

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.463	8.463	0.0	97	267570	4.00	
* 2 1,4-Difluorobenzene	114	10.760	10.760	0.0	96	1351251	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.075	17.091	-0.016	89	1131125	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.830	19.846	-0.016	91	867643	3.89	
7 Propene	41	3.400	3.394	0.006	94	24097	0.2146	
8 Dichlorodifluoromethane	85	3.437	3.437	0.0	99	26994	0.1004	
9 Chloromethane	52	3.599	3.594	0.005	99	4847	0.1222	
17 Ethanol	31	4.408	4.386	0.022	93	1710718	37.8	
19 2-Methylbutane	43	4.645	4.640	0.005	92	27650	0.1799	
20 Trichlorofluoromethane	101	4.850	4.850	0.0	89	9267	0.0349	
25 Isopropyl alcohol	45	5.098	5.066	0.032	90	147239	0.7107	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	5.756	5.751	0.005	56	2190	0.0122	
31 Methylene Chloride	84	5.896	5.896	0.0	84	5251	0.0625	
39 2-Butanone (MEK)	72	7.563	7.687	-0.124	65	4986	0.0812	
40 Hexane	56	7.778	7.773	0.005	78	3265	0.0309	
43 Chloroform	83	8.485	8.490	-0.005	14	3251	0.0163	
47 Benzene	78	10.156	10.156	0.0	89	14226	0.0477	
48 Cyclohexane	69	10.189	10.178	0.011	52	1005	0.0200	
54 n-Heptane	71	11.499	11.494	0.005	86	6275	0.0551	
62 4-Methyl-2-pentanone (MIBK)	43	13.047	13.036	0.011	78	6085	0.0194	
65 Toluene	91	14.201	14.201	0.0	93	78044	0.2229	
73 Tetrachloroethene	129	15.834	15.834	0.0	80	2919	0.0244	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RC20P115.D

Injection Date: 21-Mar-2014 02:57:30

Instrument ID: MR

Operator ID: 7126

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Worklist Smp#: 21

Client ID: SAMPLE 3- ROOM # 2

Purge Vol: 500.000 mL

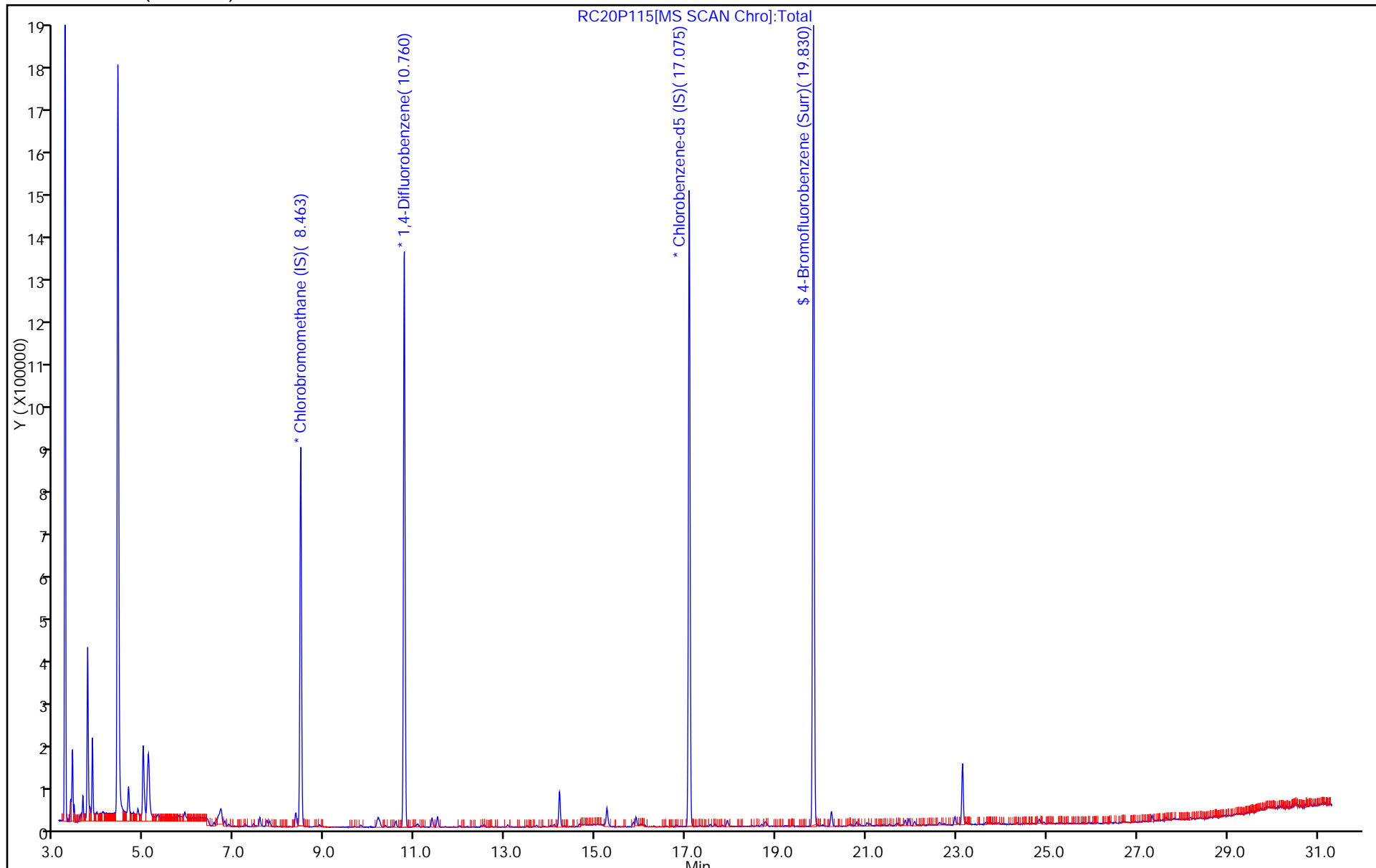
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RC20P115.D

Injection Date: 21-Mar-2014 02:57:30

Instrument ID: MR

Lims ID: 140-1065-A-2

Lab Sample ID: 140-1065-2

Client ID: SAMPLE 3- ROOM # 2

Operator ID: 7126

ALS Bottle#: 15

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

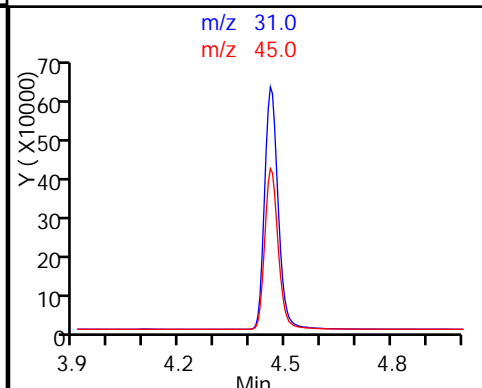
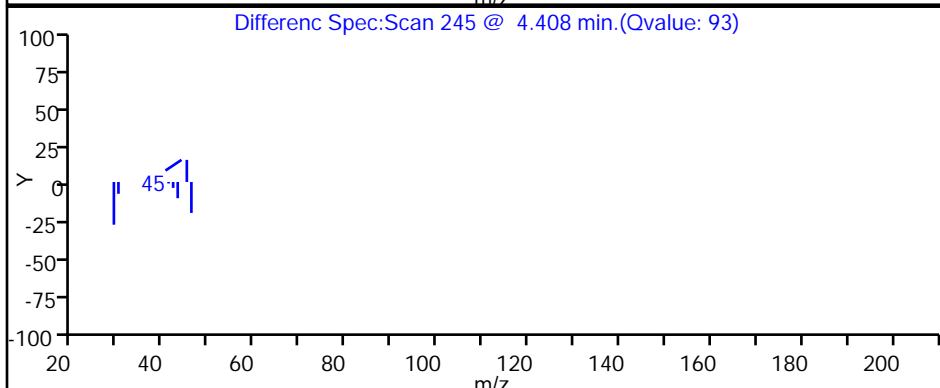
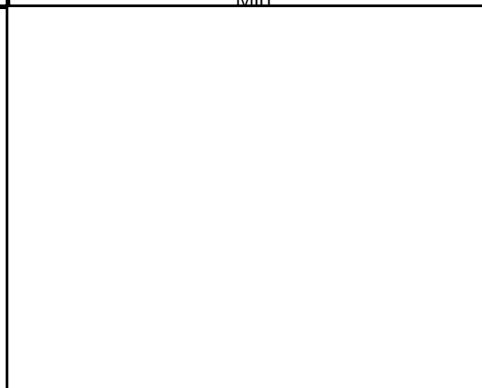
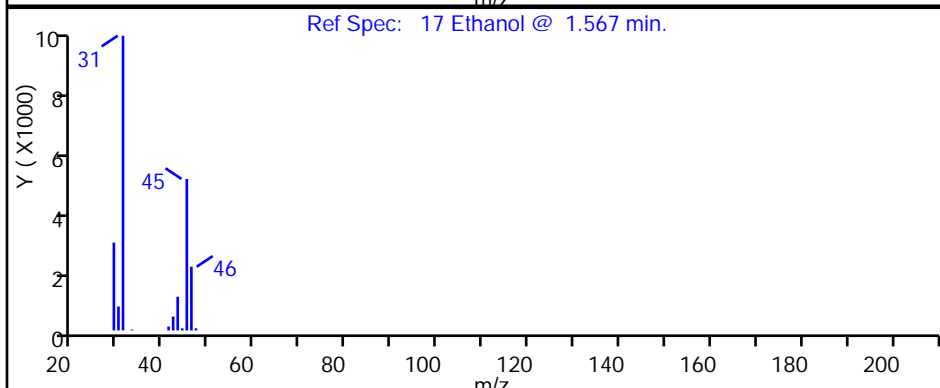
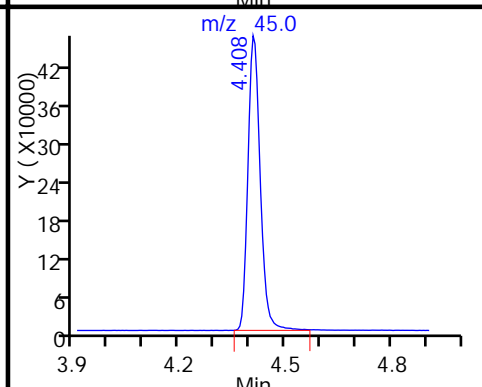
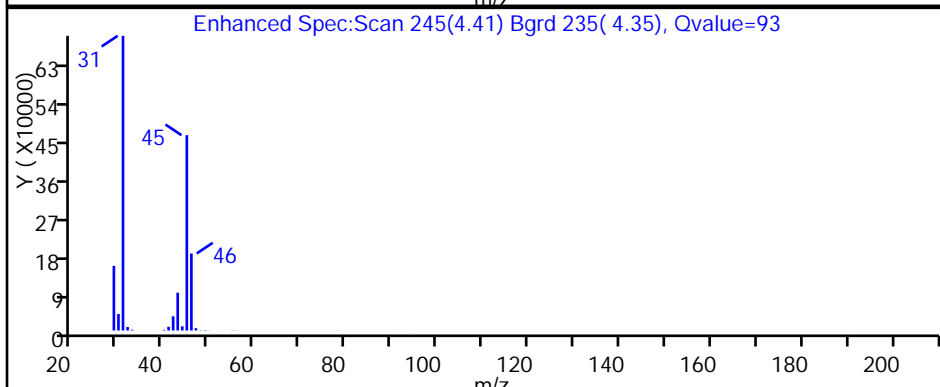
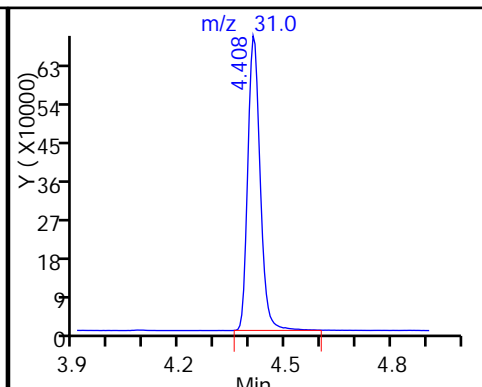
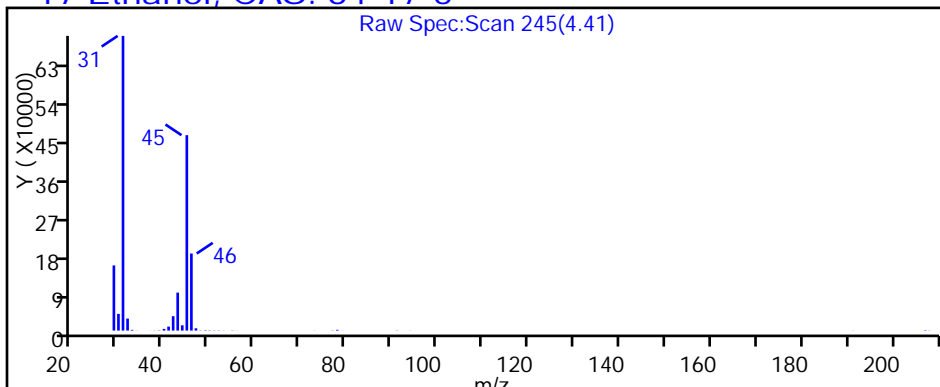
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 4- AMBIENT Lab Sample ID: 140-1065-3
 Matrix: Air Lab File ID: JC19P113.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 14:57
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.15	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.084	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.61	J	1.0	0.20
591-78-6	2-Hexanone	100.20	0.064	J	0.50	0.058
78-78-4	2-Methylbutane	72.15	0.70		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.8		0.50	0.045
67-64-1	Acetone	58.08	3.6	J	5.0	1.4
71-43-2	Benzene	78.11	0.24		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 4- AMBIENT Lab Sample ID: 140-1065-3
 Matrix: Air Lab File ID: JC19P113.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 14:57
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	0.50		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.42		0.20	0.068
64-17-5	Ethanol	46.07	14		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	0.10	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.20	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	0.78	J	2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.37	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.21		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.093	J	0.20	0.061
115-07-1	Propene	42.08	0.81	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.33		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.36		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 4- AMBIENT Lab Sample ID: 140-1065-3
 Matrix: Air Lab File ID: JC19P113.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 14:57
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 4- AMBIENT Lab Sample ID: 140-1065-3
 Matrix: Air Lab File ID: JC19P113.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 14:57
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.73	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.39	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.8	J	2.9	0.59
591-78-6	2-Hexanone	100.20	0.26	J	2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	7.2		2.0	0.18
67-64-1	Acetone	58.08	8.6	J	12	3.3
71-43-2	Benzene	78.11	0.75		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 4- AMBIENT Lab Sample ID: 140-1065-3
 Matrix: Air Lab File ID: JC19P113.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 14:57
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	1.0		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.1		0.99	0.34
64-17-5	Ethanol	46.07	26		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	0.41	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.71	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	1.9	J	4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	1.3	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.93		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.40	J	0.87	0.26
115-07-1	Propene	42.08	1.4	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	2.2		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.4		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 4- AMBIENT Lab Sample ID: 140-1065-3
 Matrix: Air Lab File ID: JC19P113.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 14:57
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D
 Lims ID: 140-1065-A-3 Lab Sample ID: 140-1065-3
 Client ID: SAMPLE 4- AMBIENT
 Sample Type: Client
 Inject. Date: 20-Mar-2014 04:32:30 ALS Bottle#: 13 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1065-a-3
 Misc. Info.: J031914,TO15,,140-0000532-020
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:55:52 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:55:51

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.376	9.385	-0.009	90	375151	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1770022	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1443831	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	956857	3.75	
7 Propene	41	3.981	3.973	0.008	97	37341	0.3246	
8 Dichlorodifluoromethane	85	4.029	4.032	-0.003	100	62676	0.1687	
9 Chloromethane	52	4.228	4.231	-0.003	96	8412	0.1993	
17 Ethanol	31	5.116	5.119	-0.003	95	167348	5.56	
19 2-Methylbutane	43	5.412	5.409	0.003	93	44813	0.2813	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	89	25728	0.0788	
23 Acetone	58	5.767	5.770	-0.003	92	76937	1.44	
24 Isopropyl alcohol	45	5.853	5.850	0.003	74	43994	0.3124	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.585	6.582	0.002	68	5970	0.0264	
31 Methylene Chloride	84	6.751	6.754	-0.003	87	14687	0.1463	
39 2-Butanone (MEK)	72	8.596	8.589	0.007	96	8676	0.2443	
40 Hexane	56	8.634	8.637	-0.003	70	8182	0.0811	
48 Benzene	78	11.023	11.026	-0.003	90	28682	0.0944	
50 Carbon tetrachloride	117	11.049	11.047	0.002	85	6907	0.0275	
53 Isooctane	57	11.760	11.763	-0.003	76	17427	0.0336	
54 n-Heptane	71	12.115	12.123	-0.008	77	4282	0.0399	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.371	-0.003	98	131303	0.7077	
65 Toluene	91	14.250	14.253	-0.003	88	38746	0.1447	
69 2-Hexanone	58	14.691	14.684	0.007	42	2243	0.0256	
73 Tetrachloroethene	129	15.380	15.383	-0.003	84	16385	0.1313	
78 m-Xylene & p-Xylene	91	16.682	16.685	-0.003	88	20382	0.0854	
82 o-Xylene	91	17.209	17.212	-0.003	66	9021	0.0373	
93 1,2,4-Trimethylbenzene	105	18.941	18.939	0.002	82	16691	0.0595	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Worklist Smp#: 20

Client ID: SAMPLE 4- AMBIENT

Purge Vol: 500.000 mL

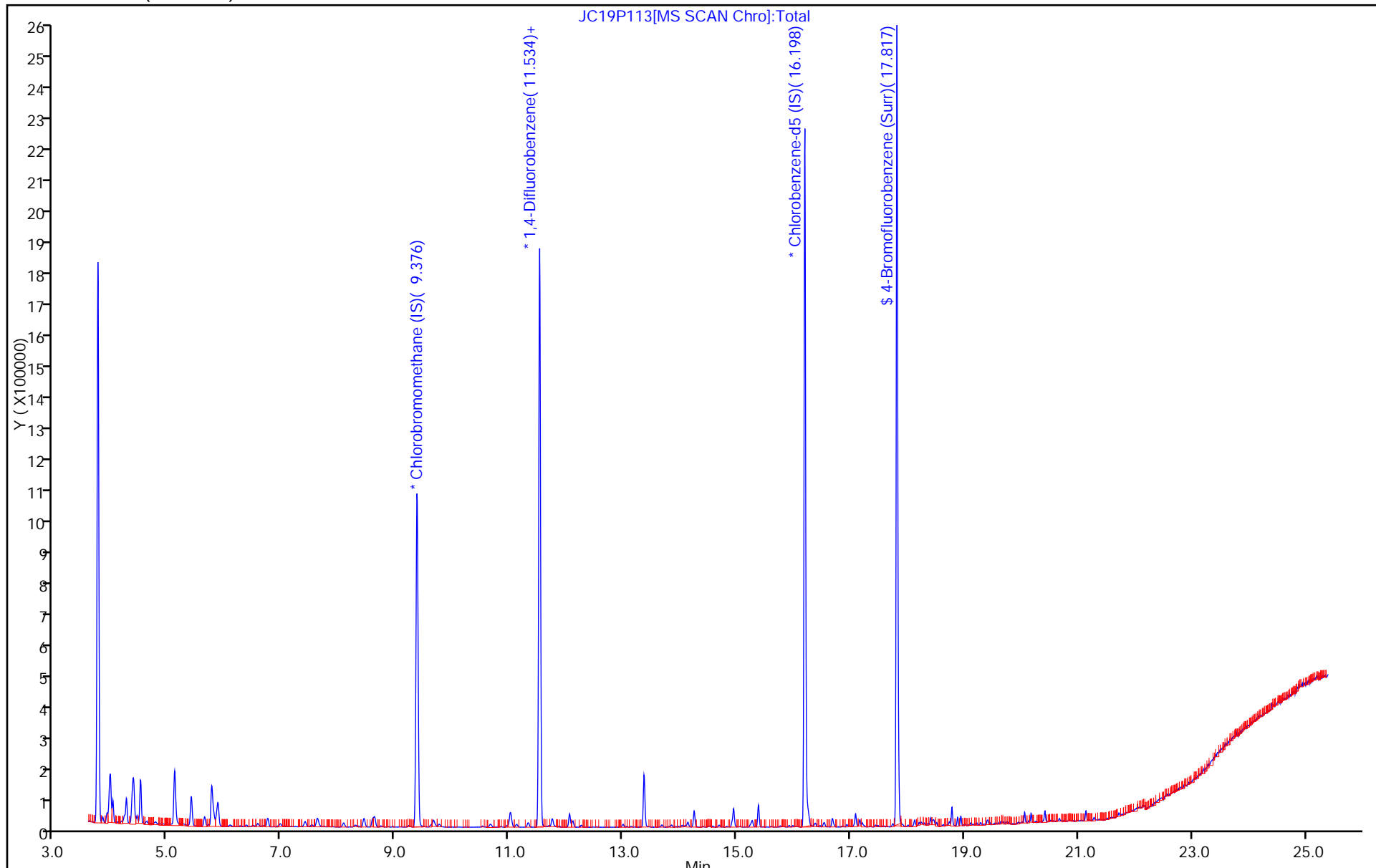
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

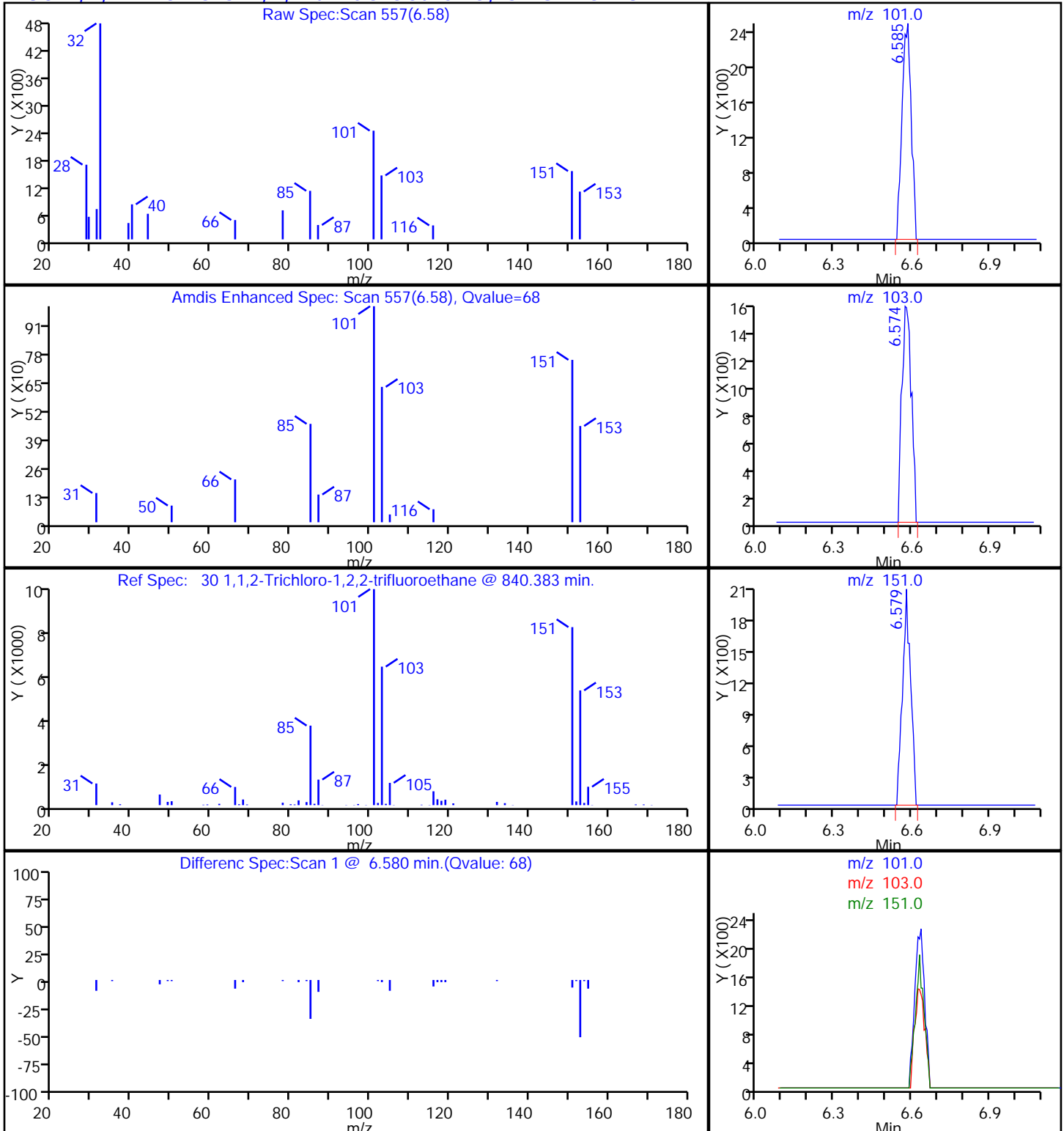
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

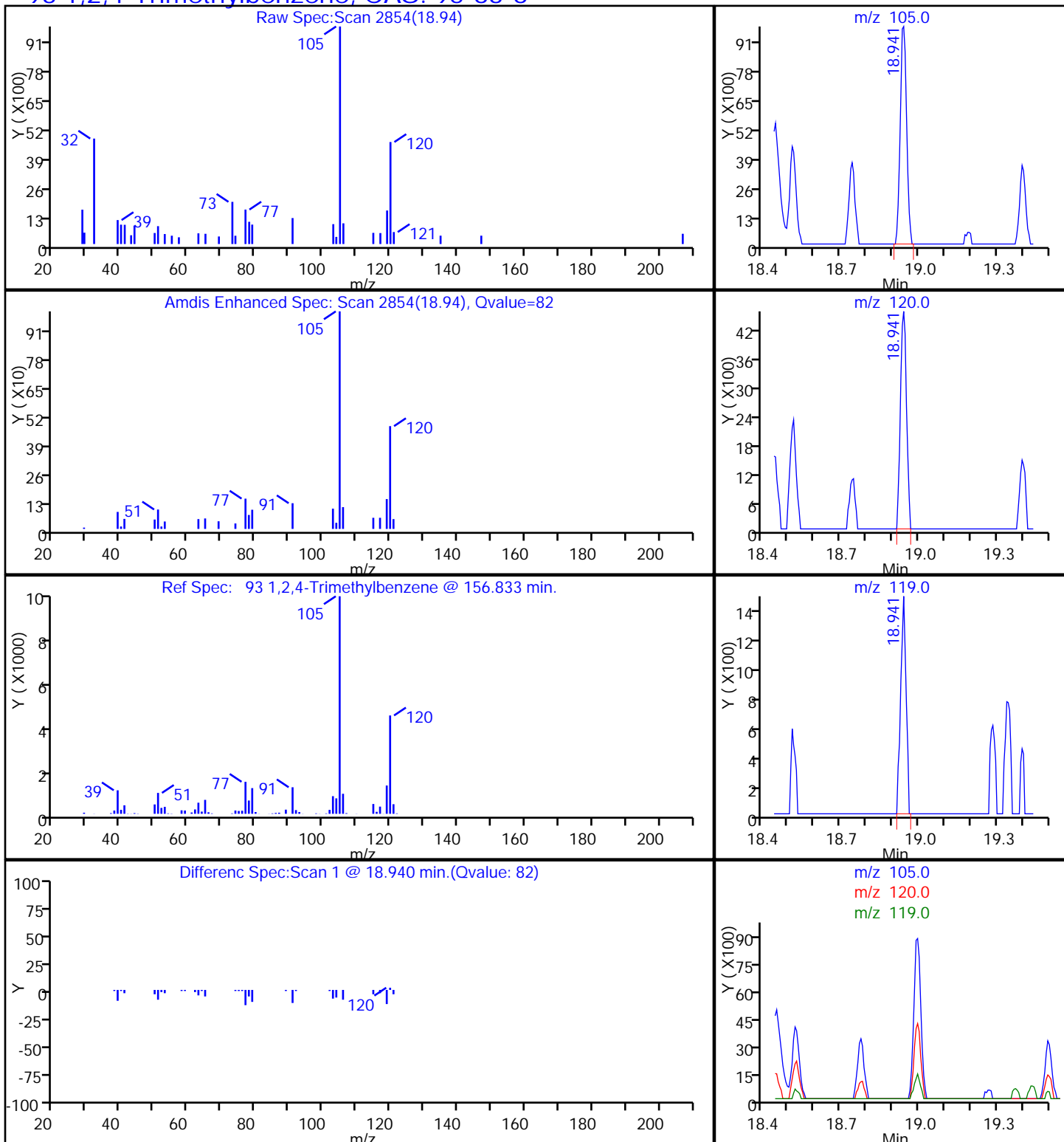
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

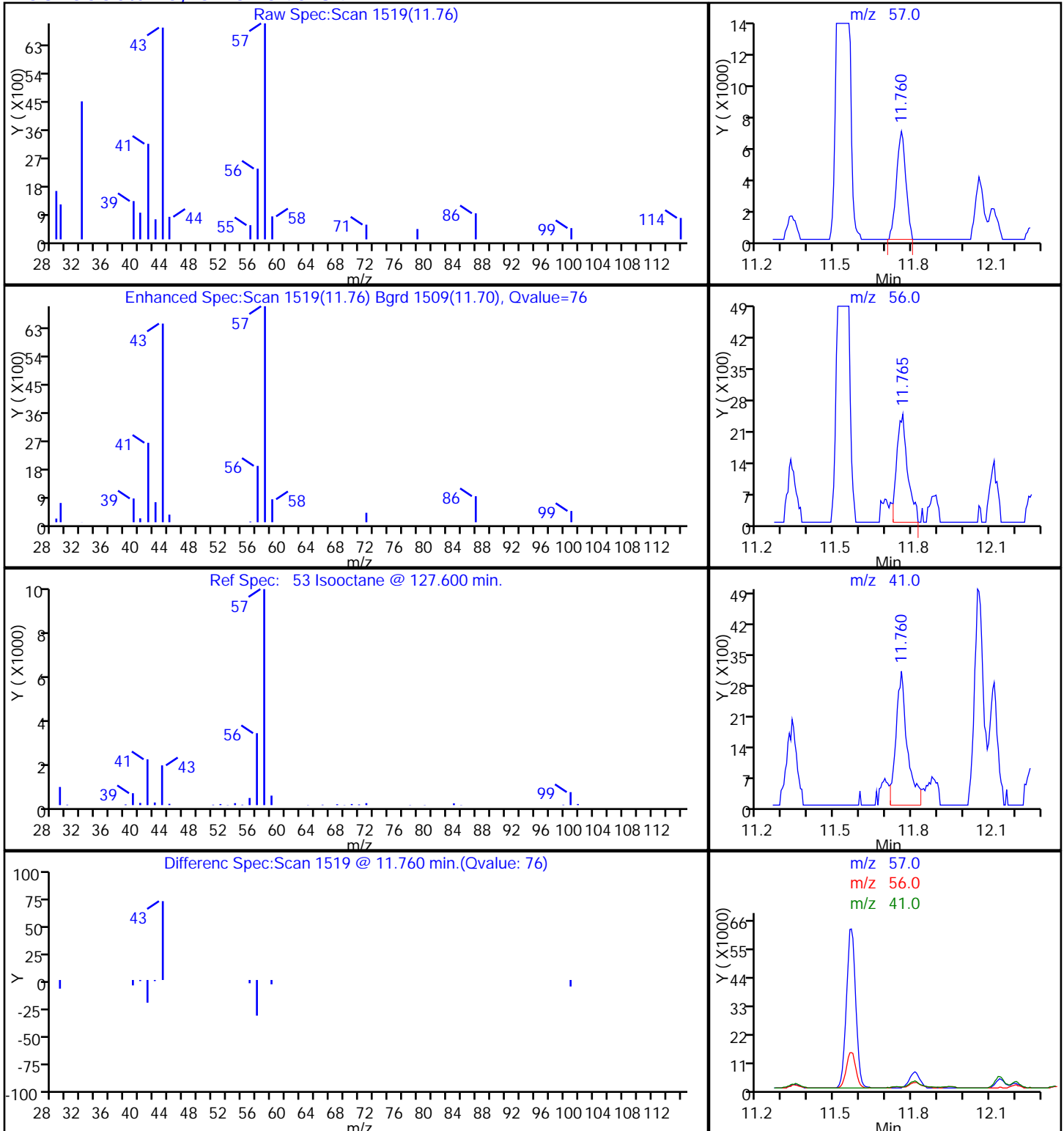
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

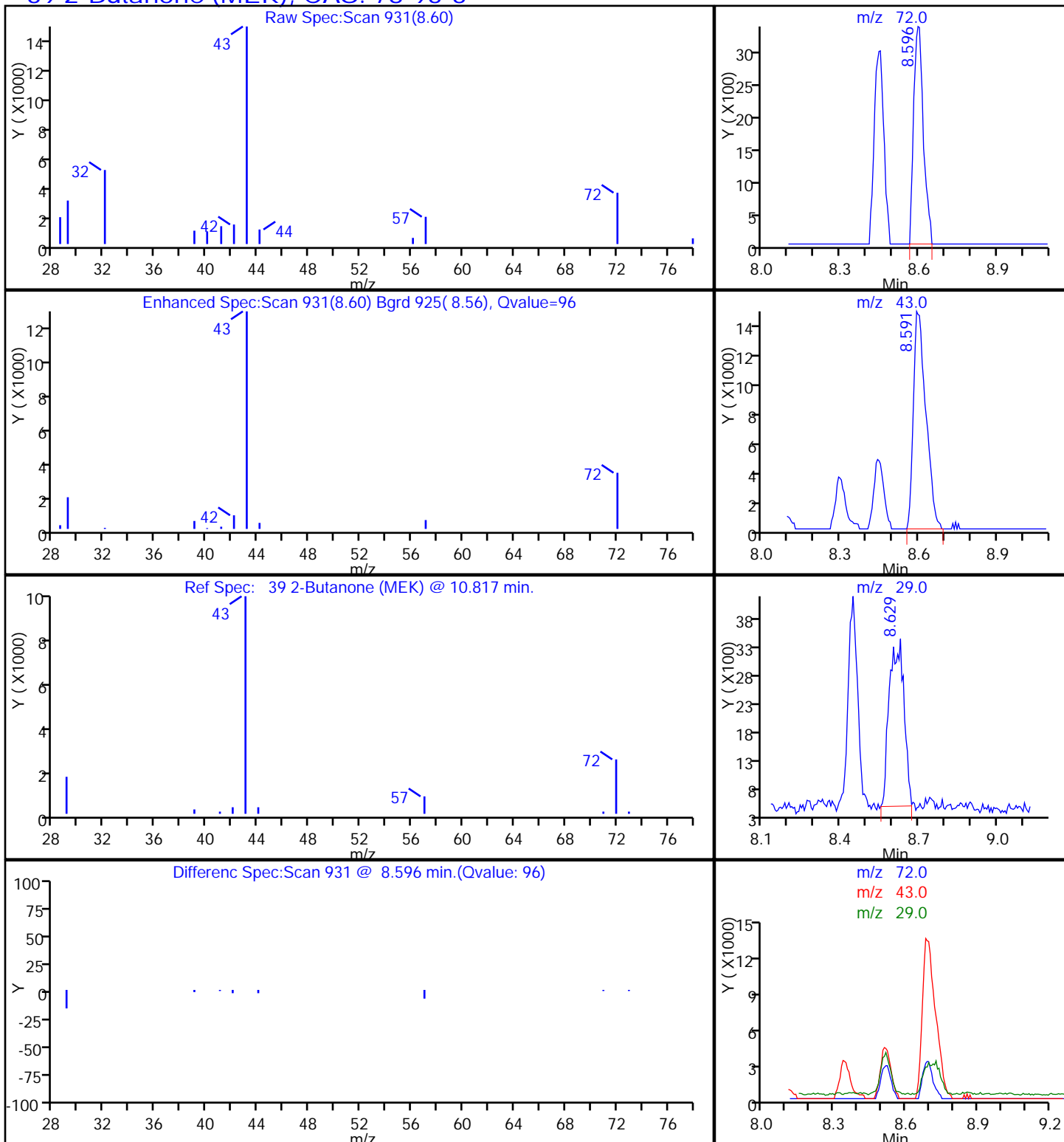
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

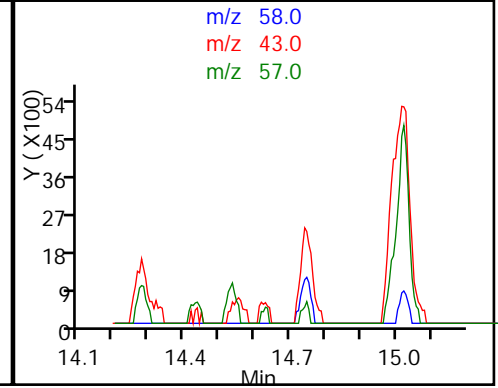
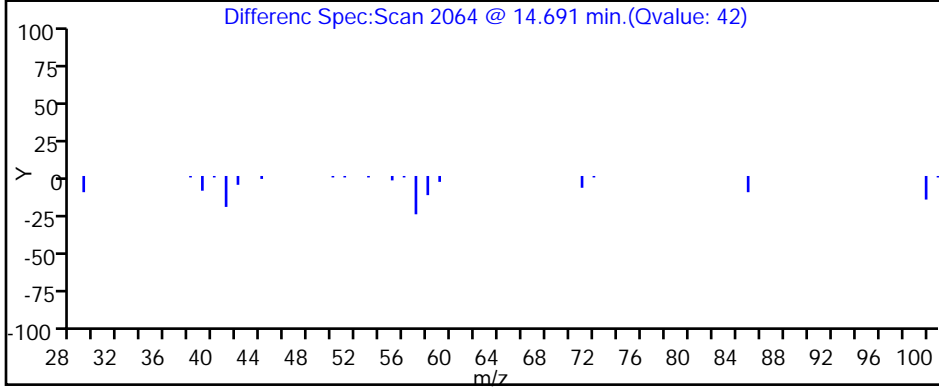
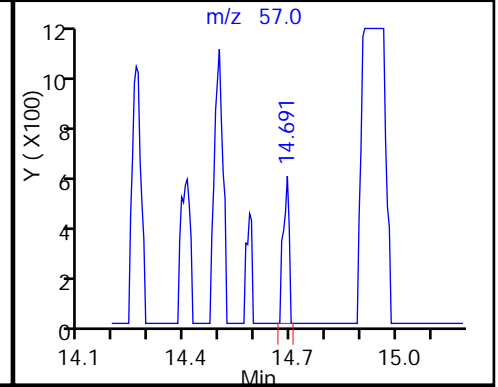
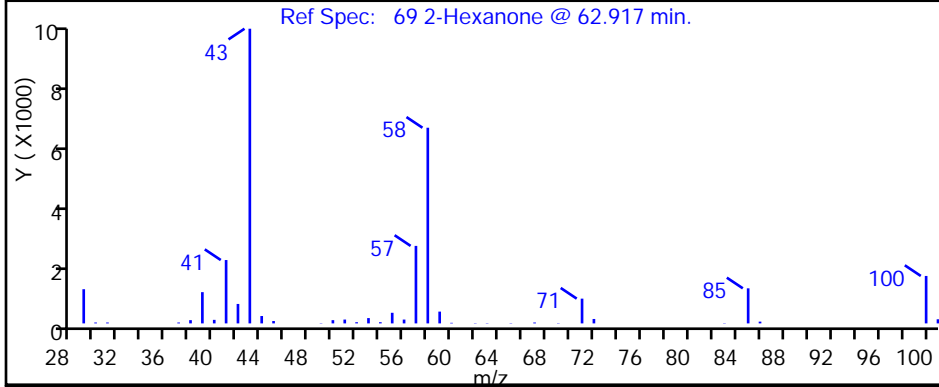
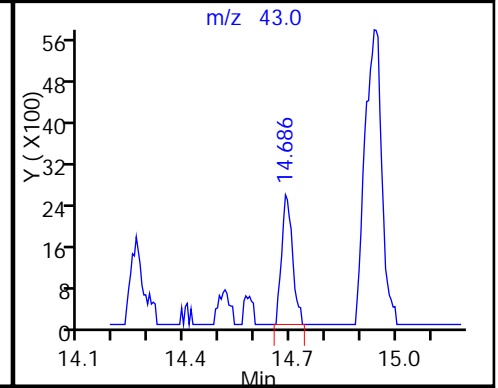
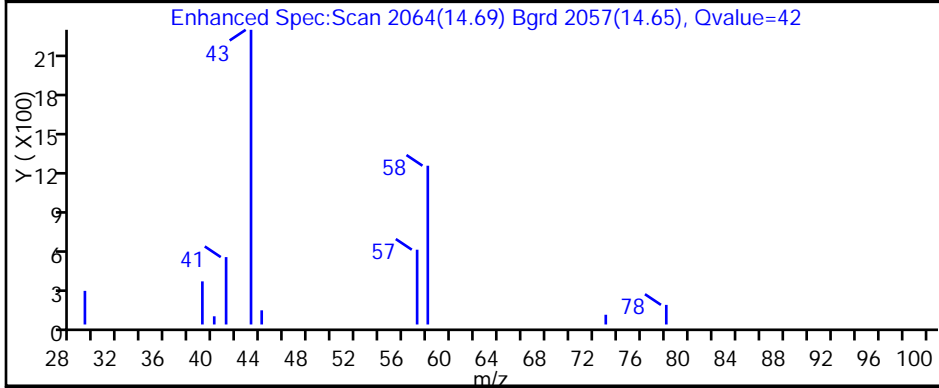
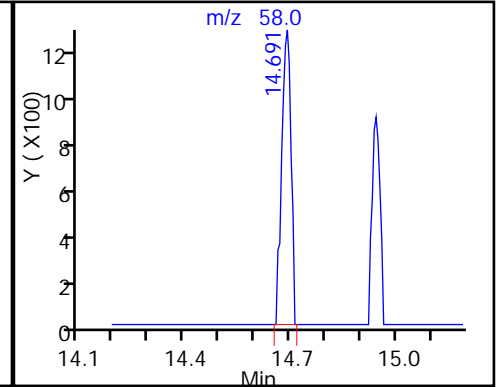
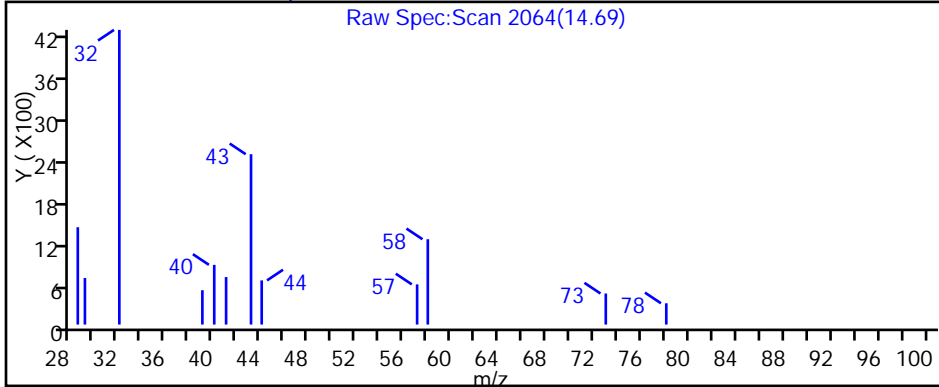
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

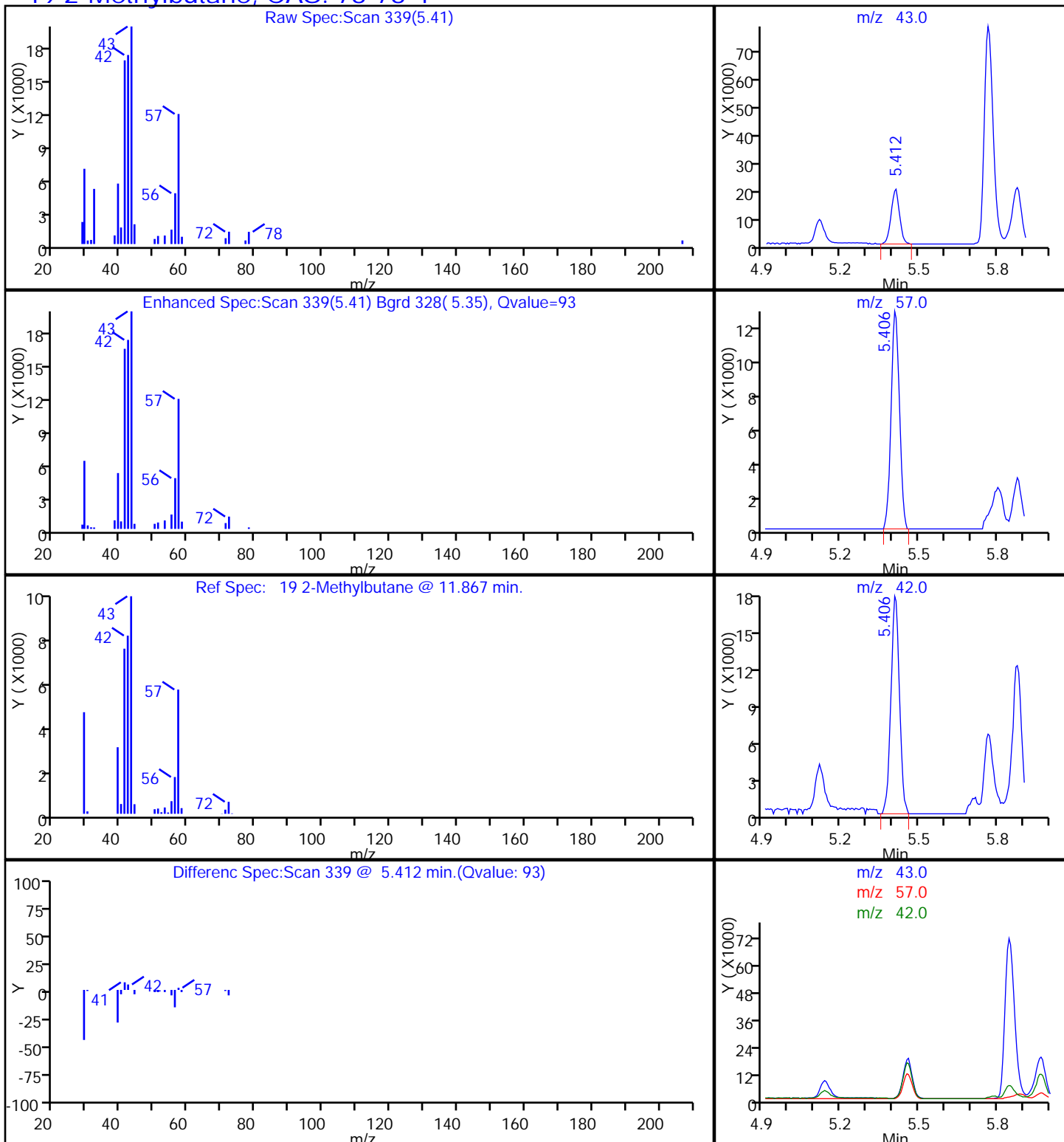
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

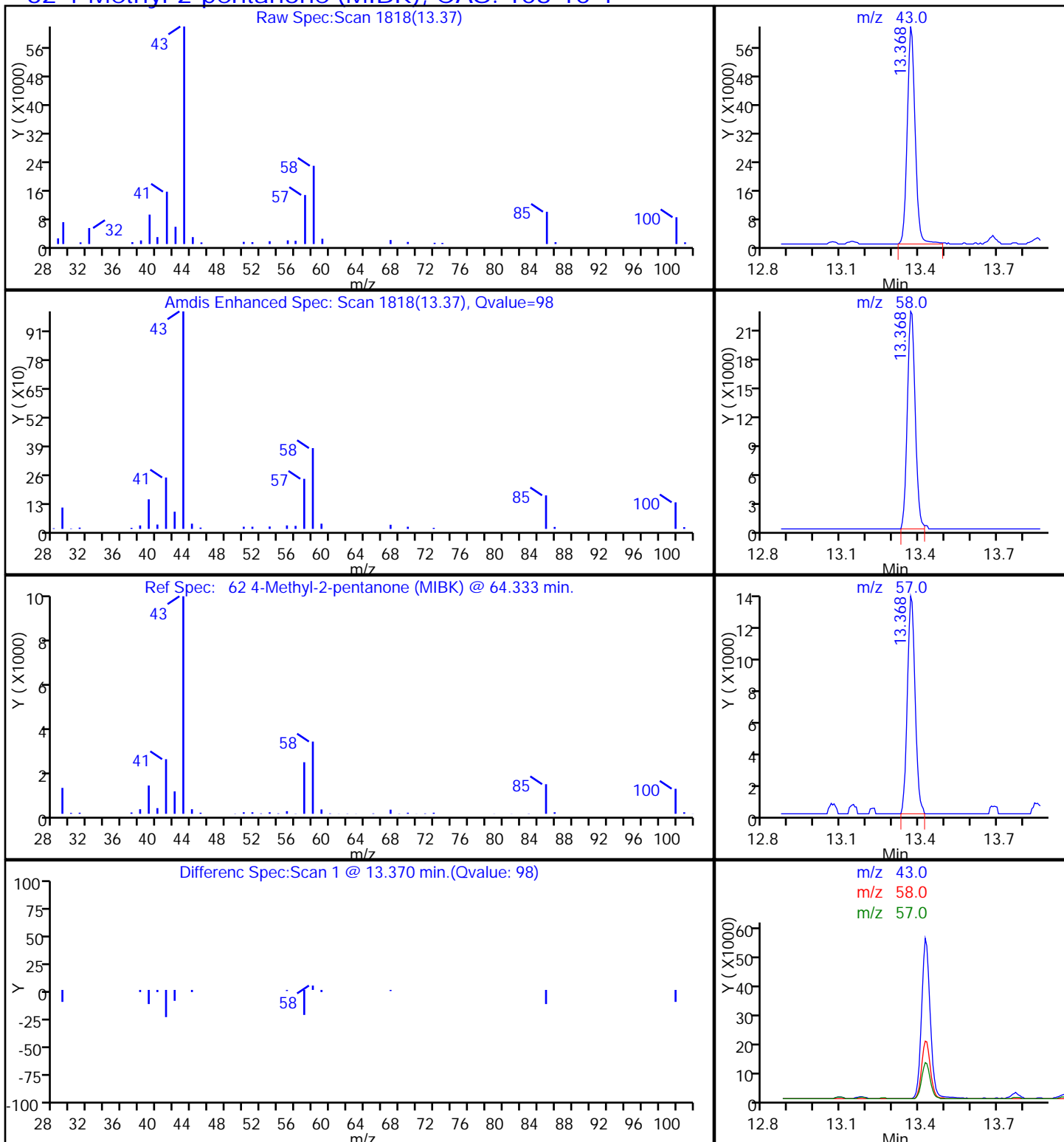
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

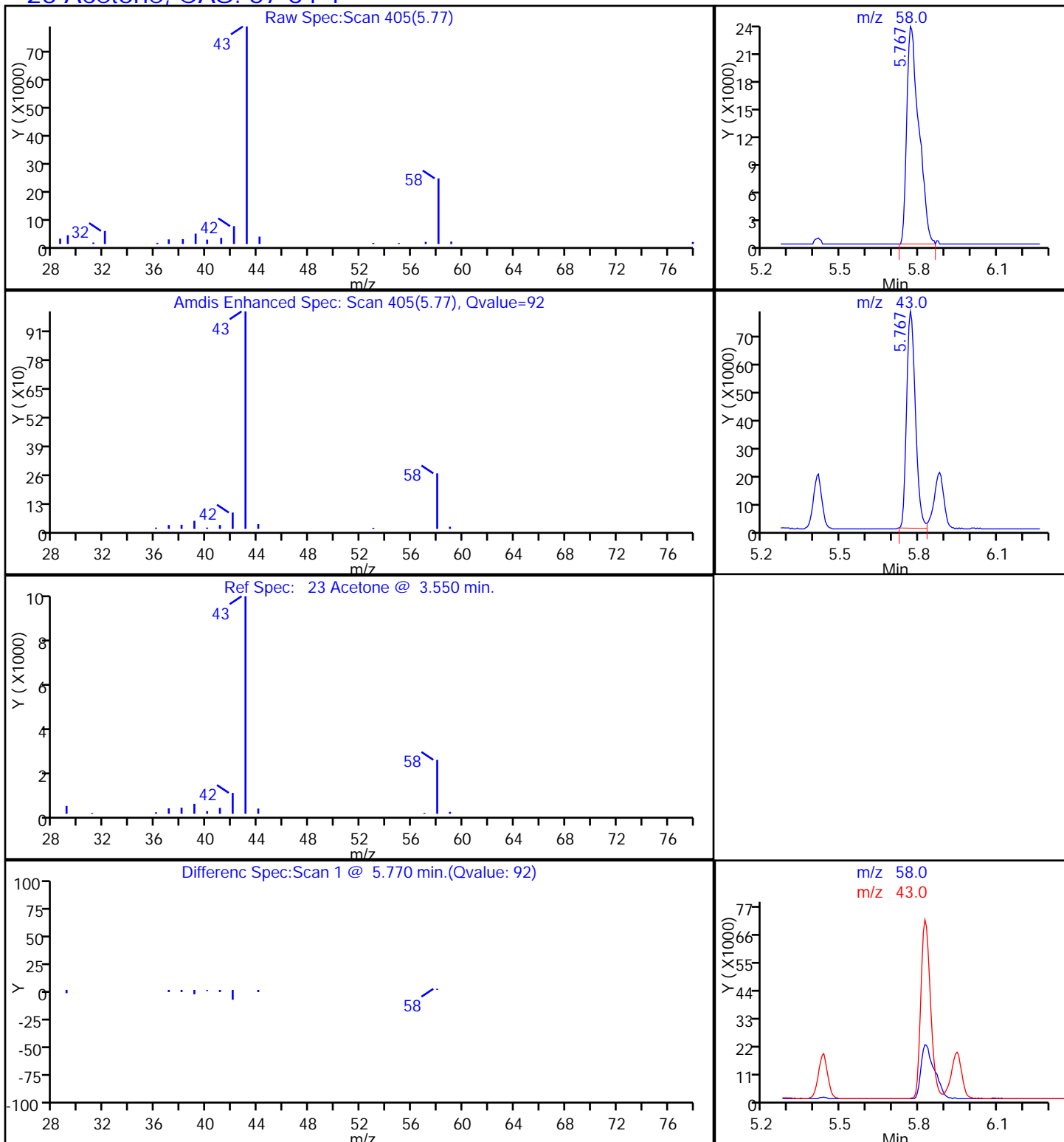
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

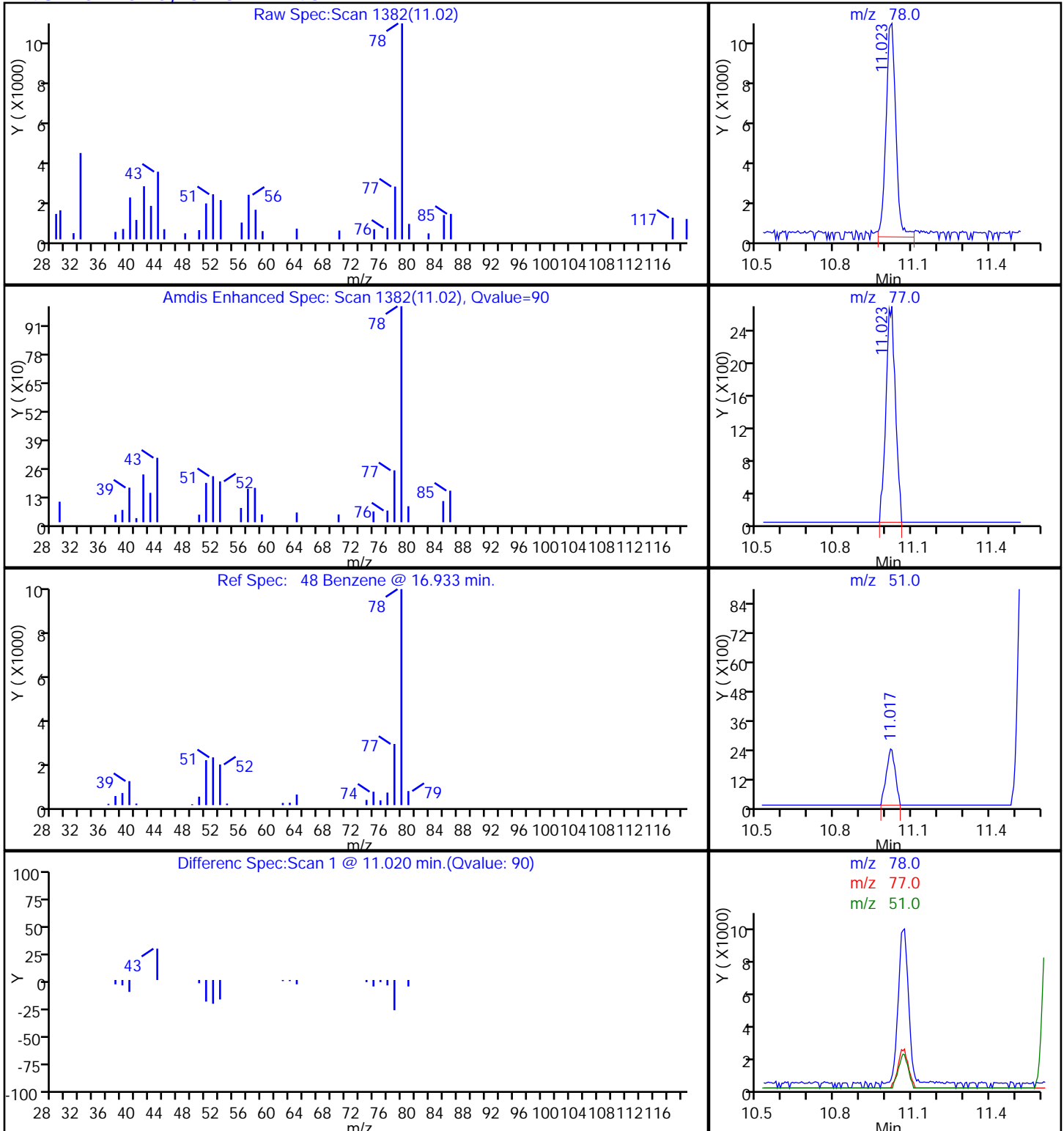
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

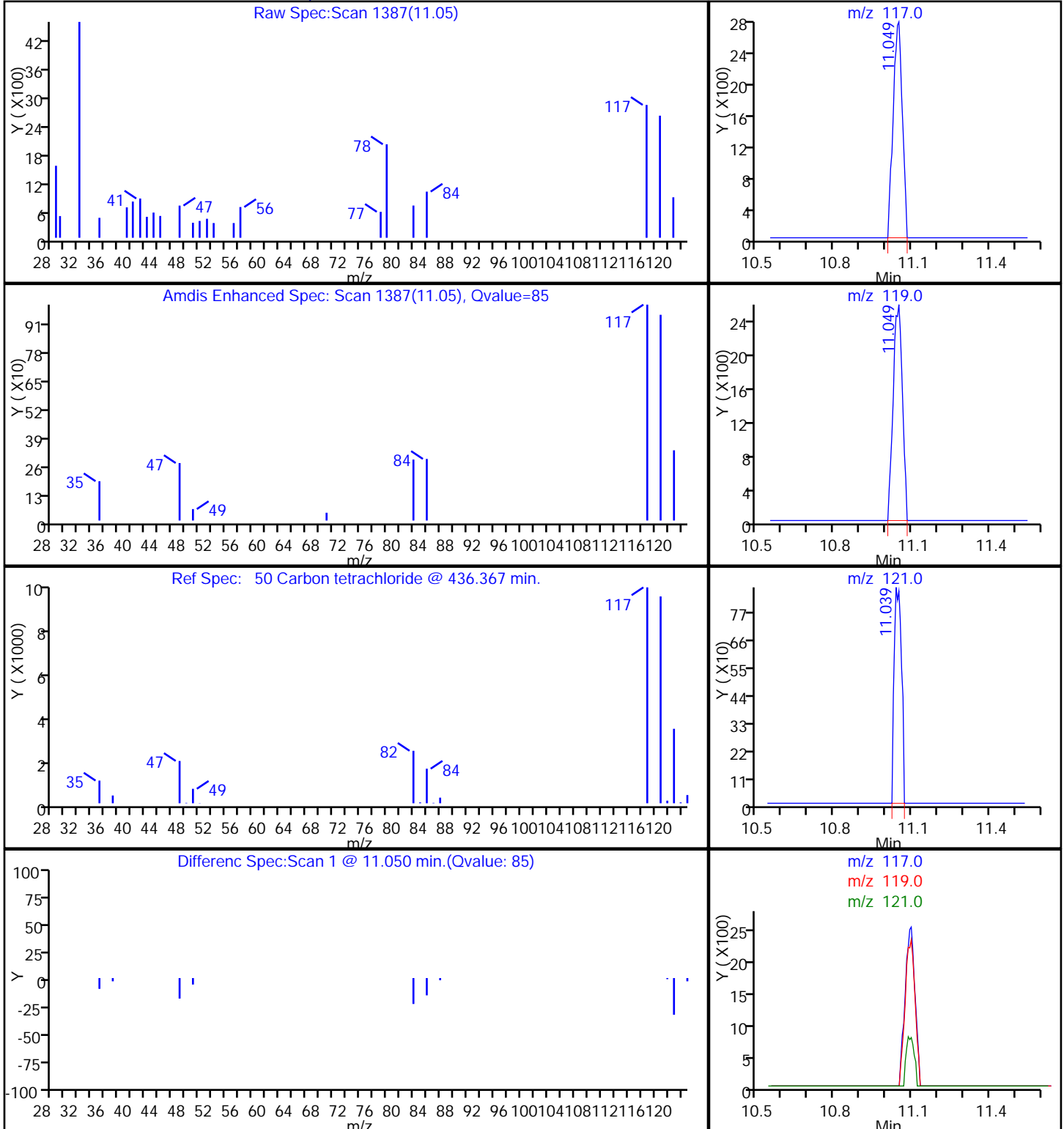
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

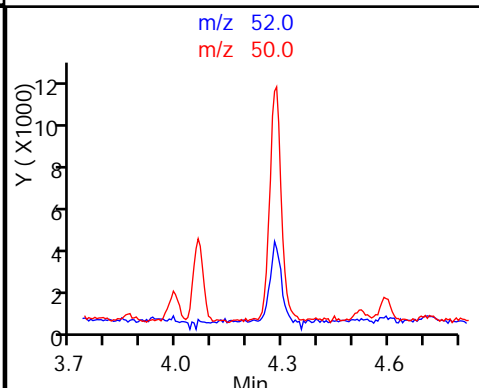
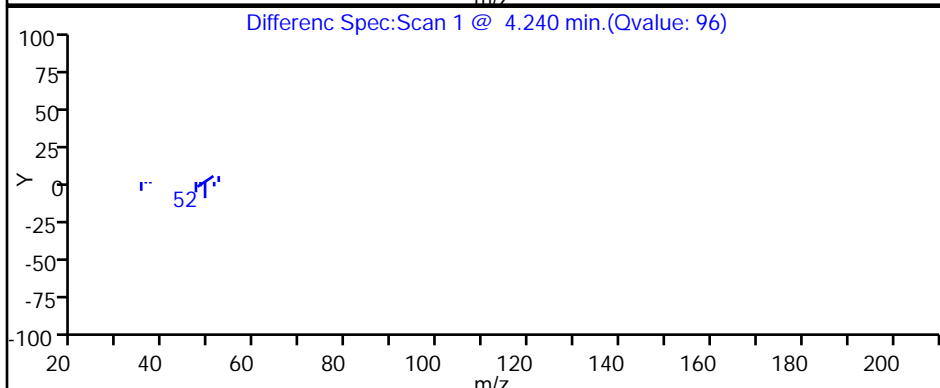
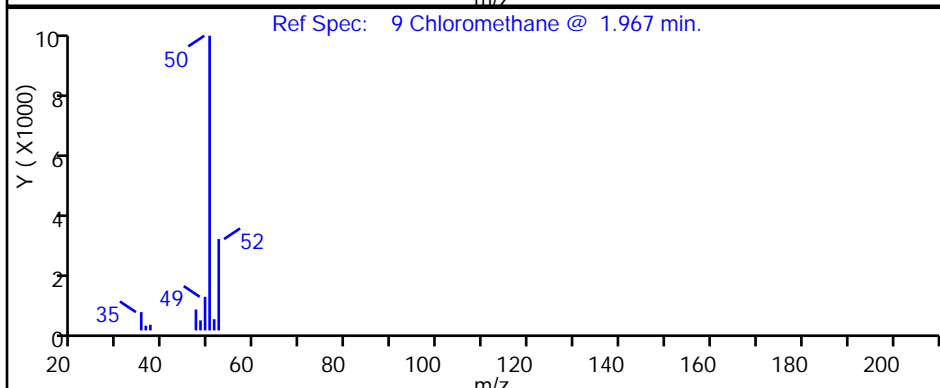
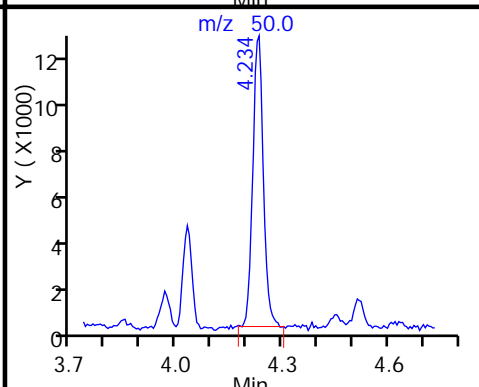
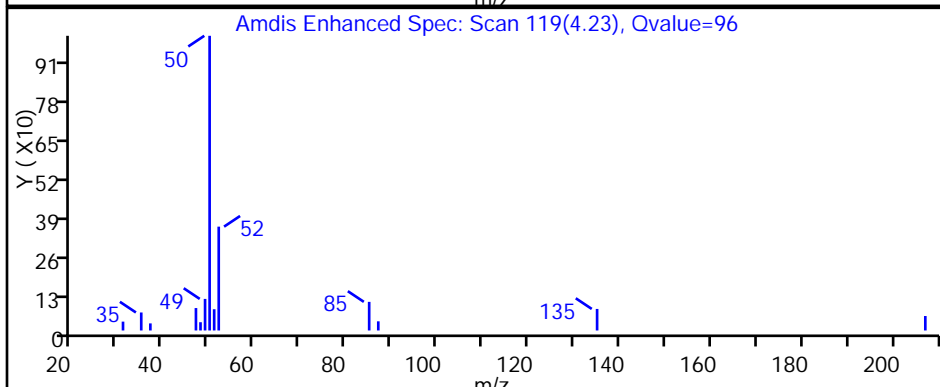
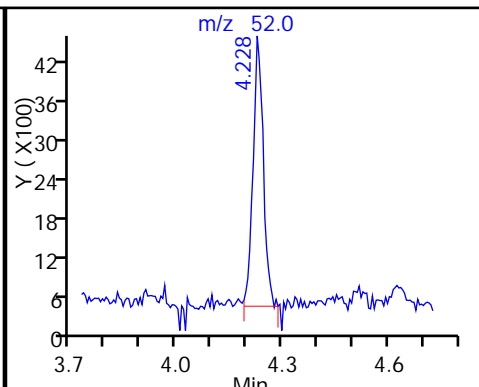
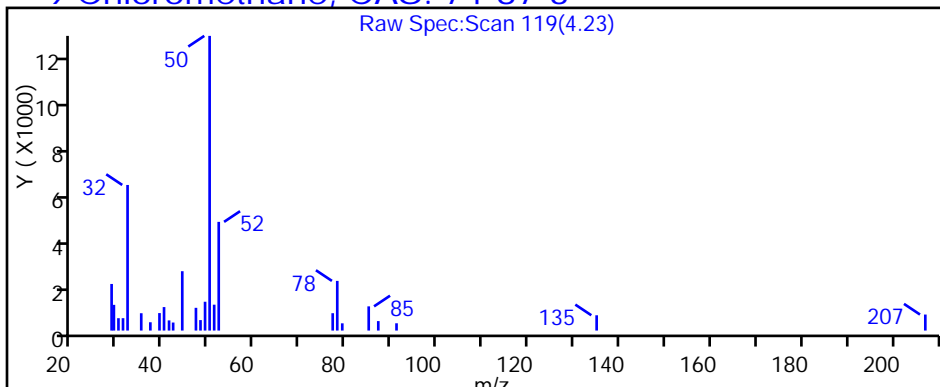
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

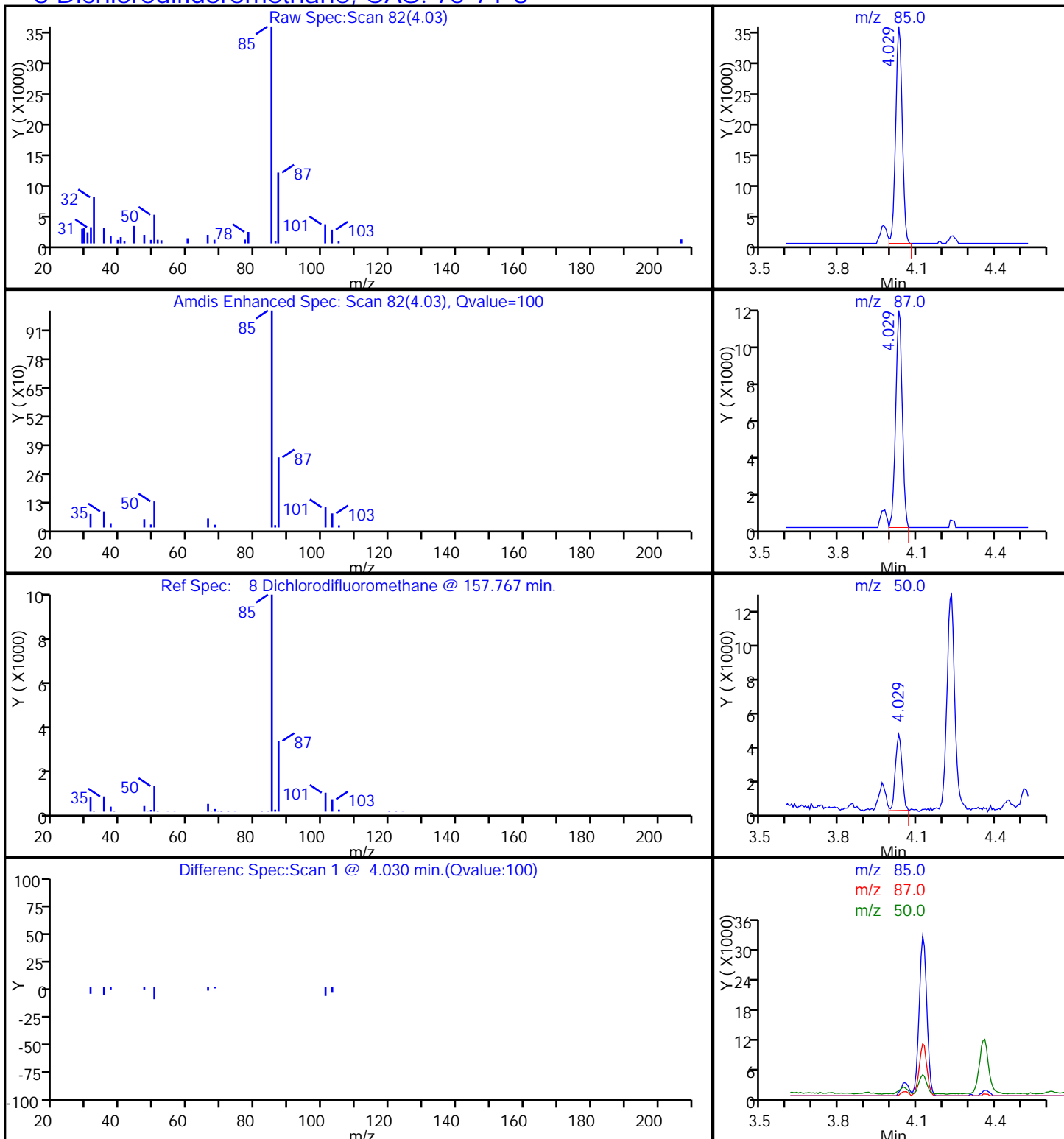
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

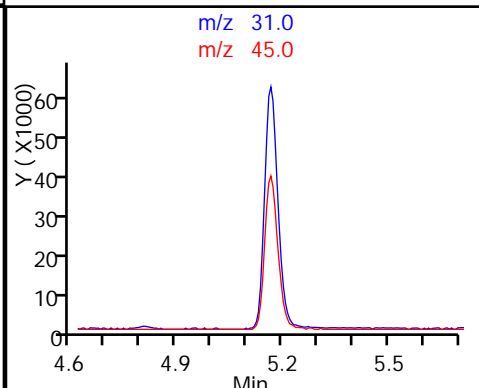
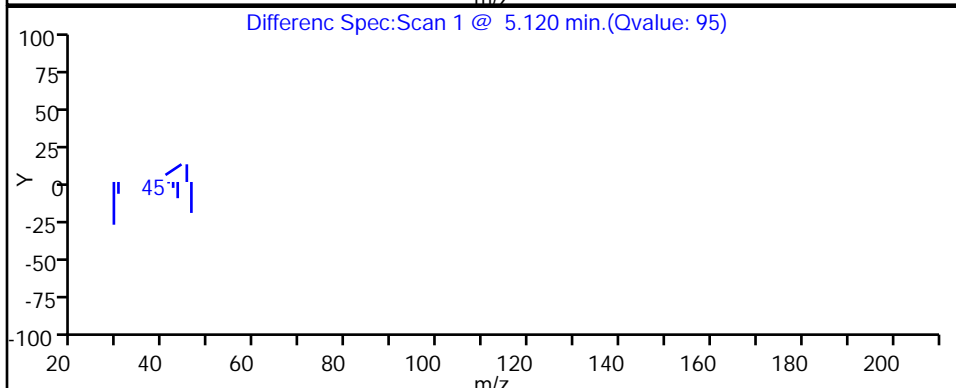
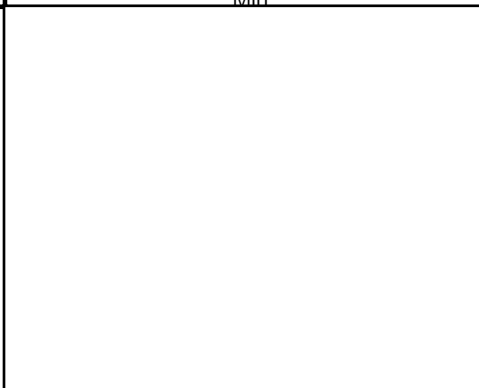
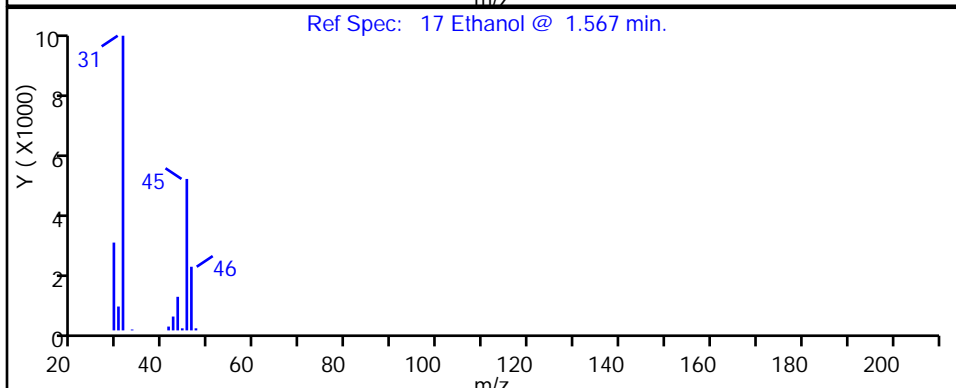
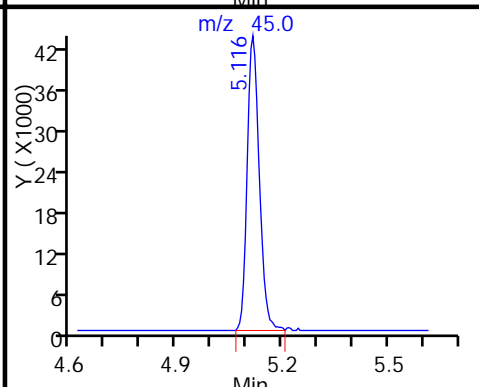
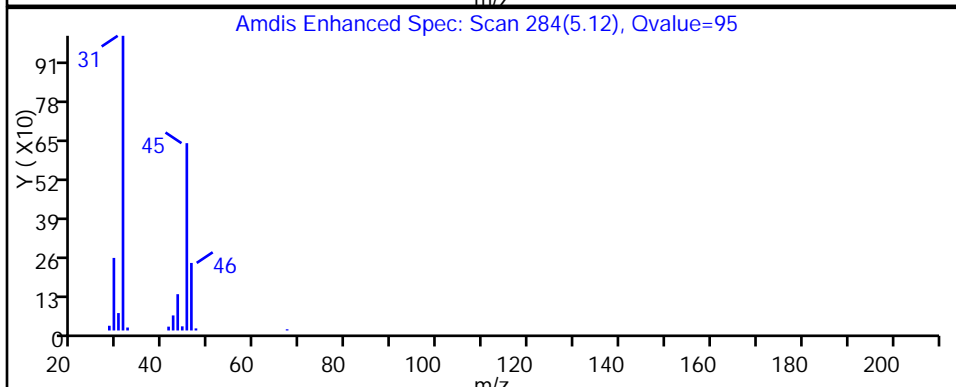
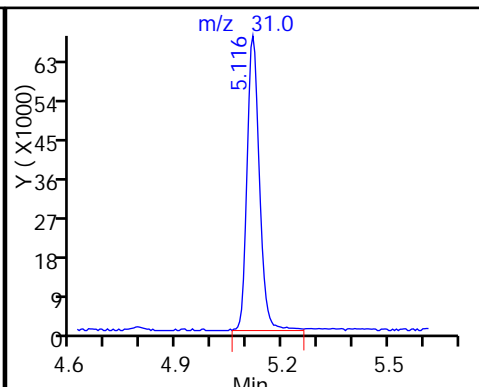
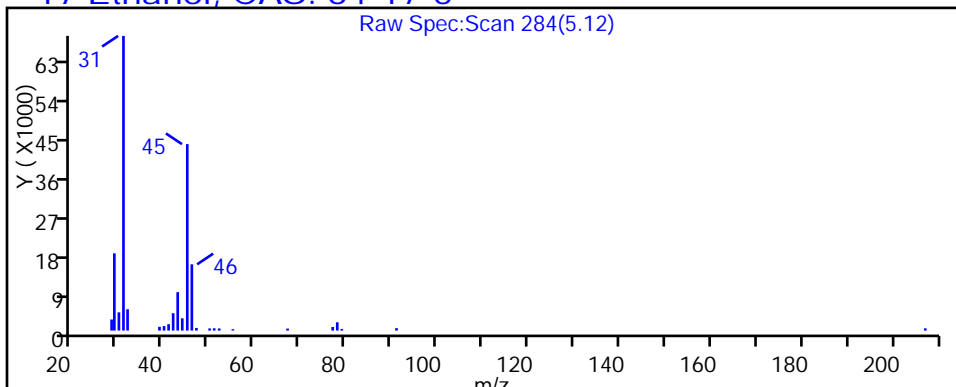
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

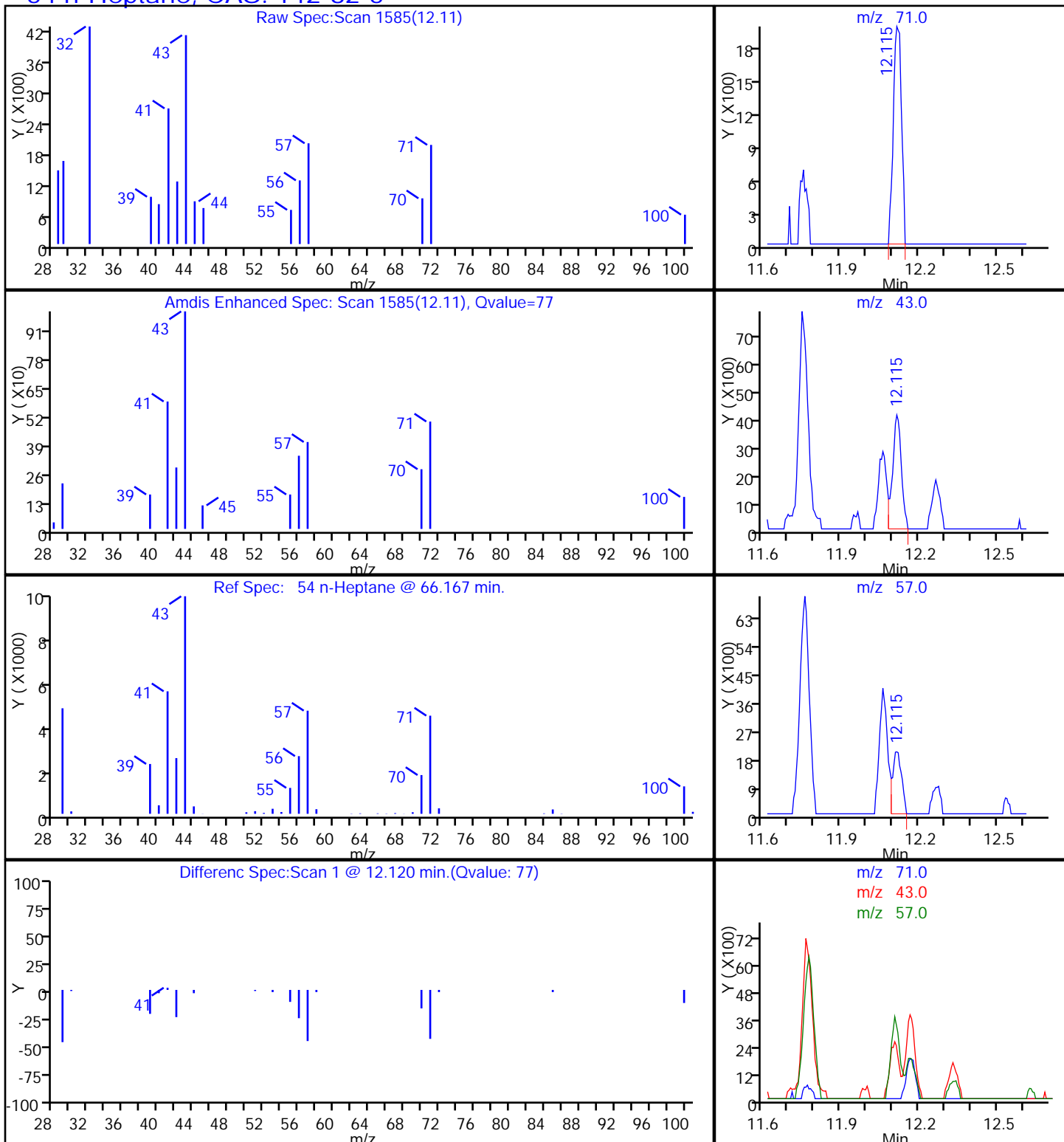
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

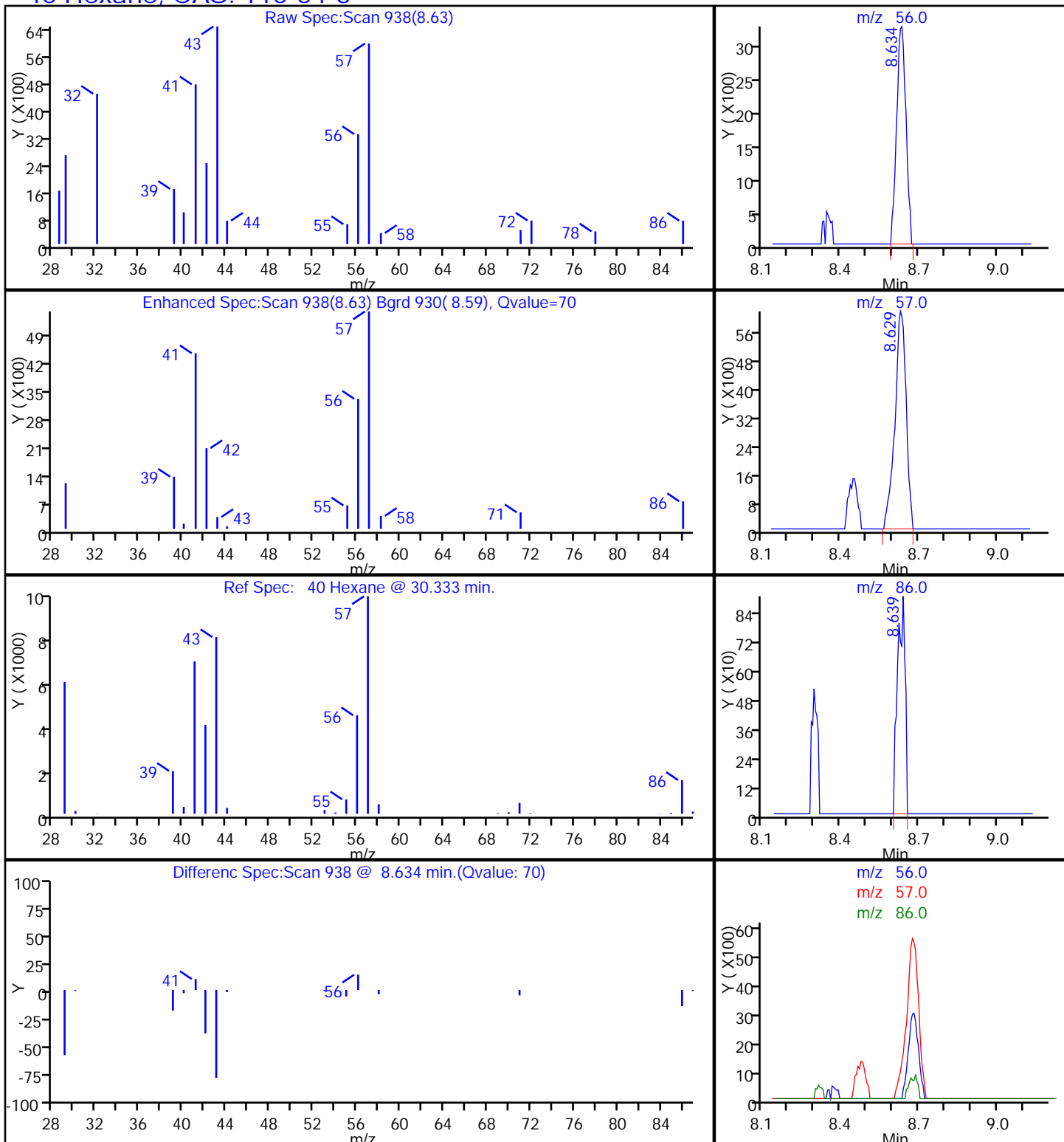
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

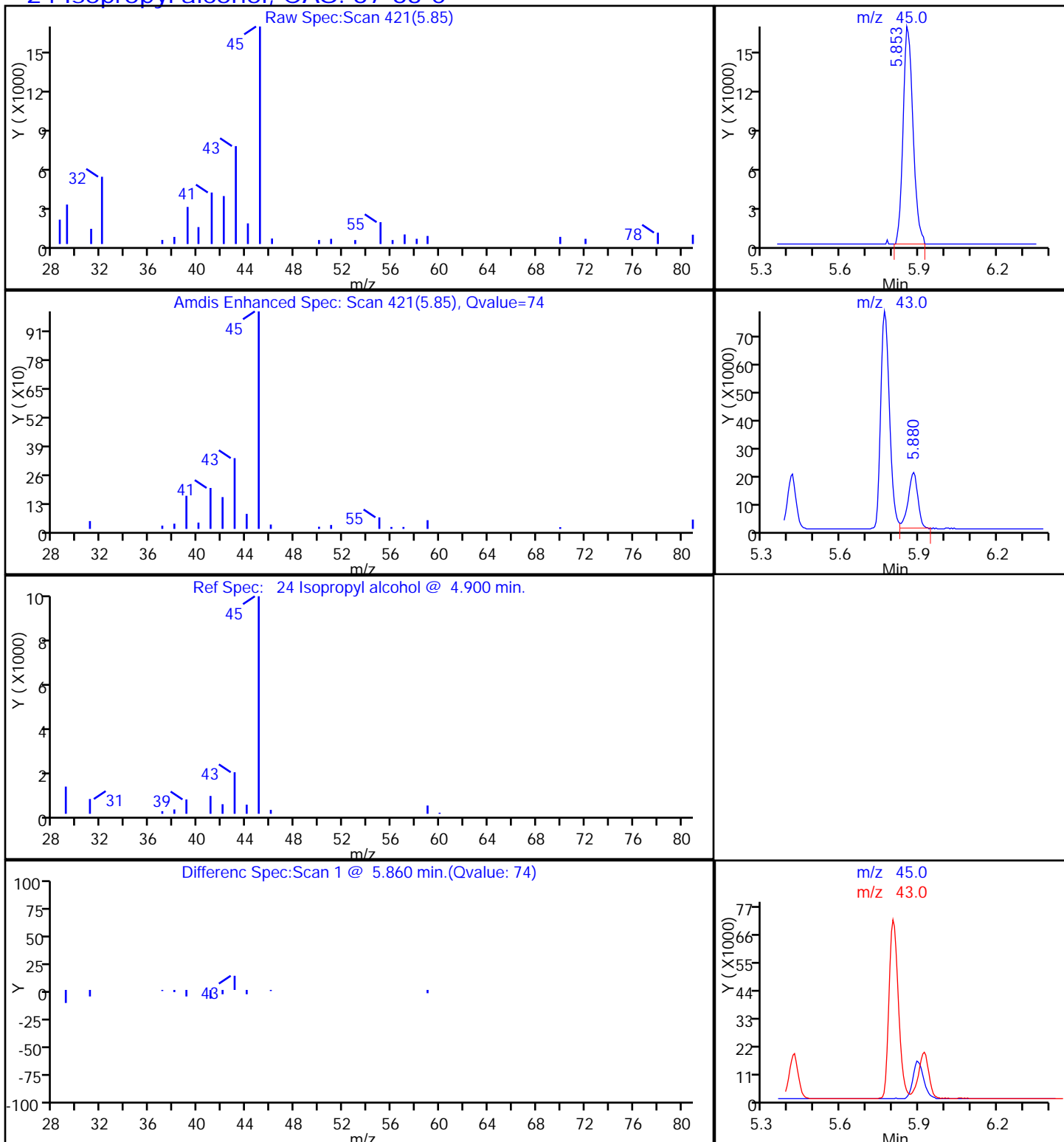
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

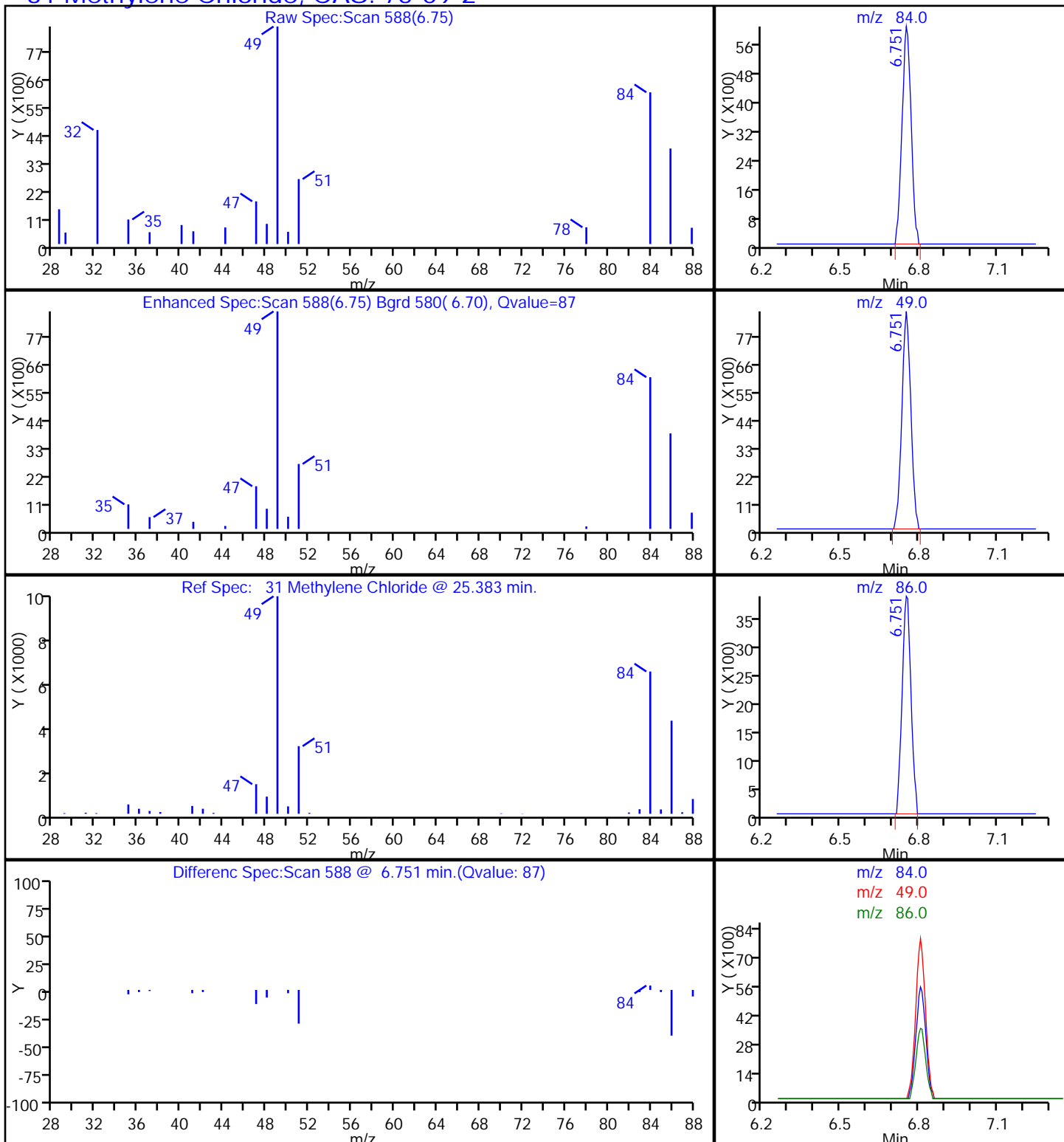
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

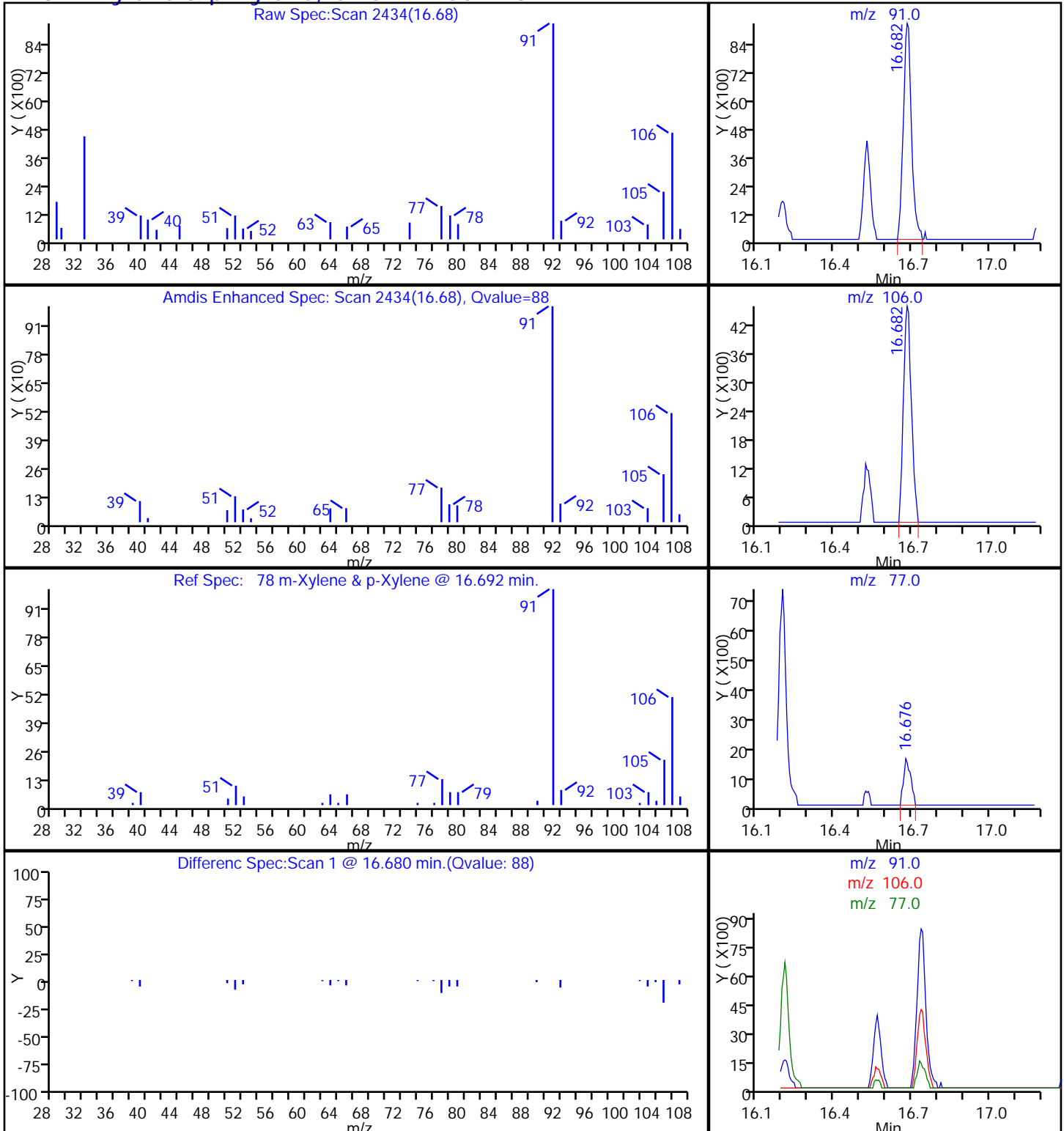
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

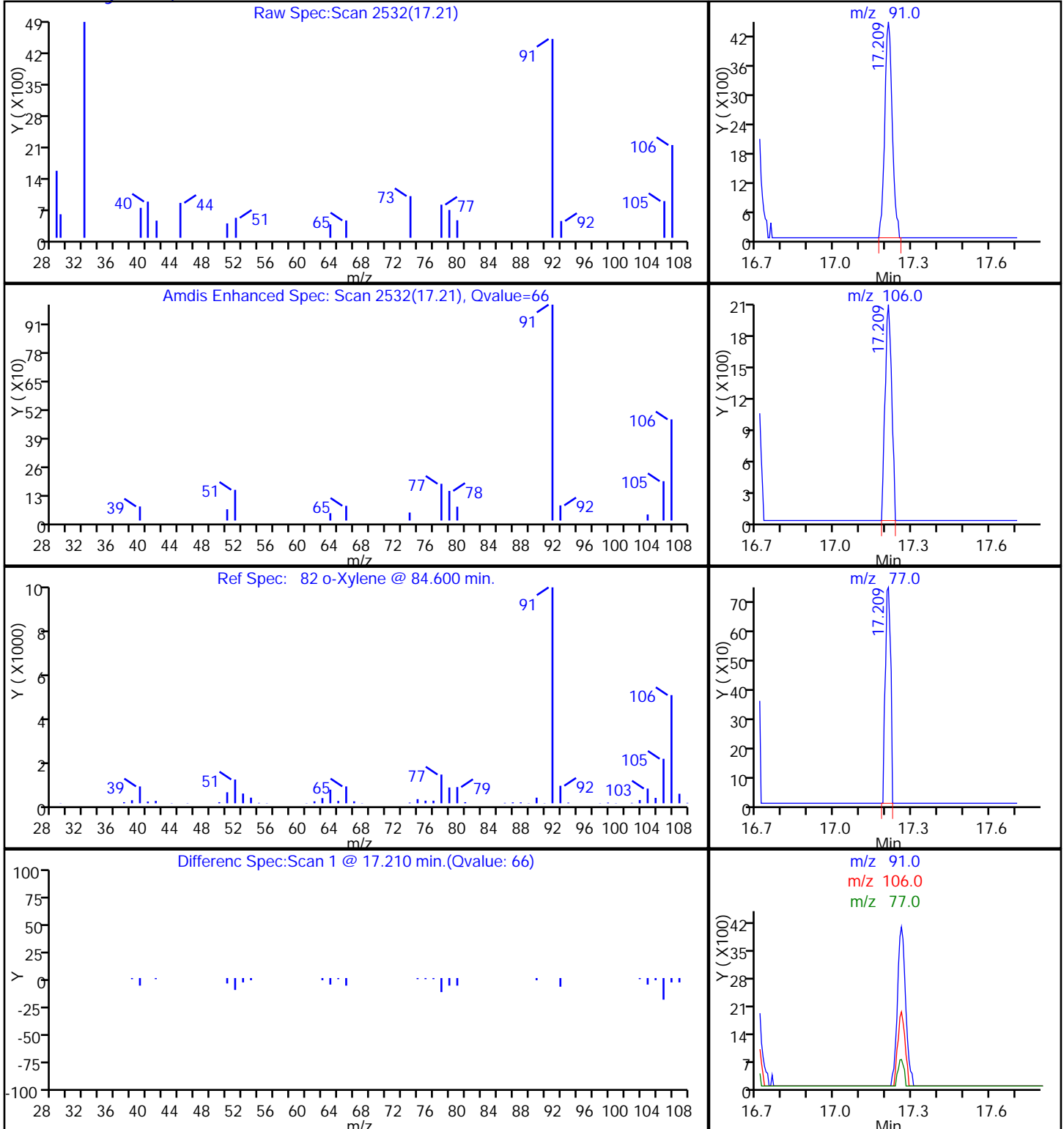
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

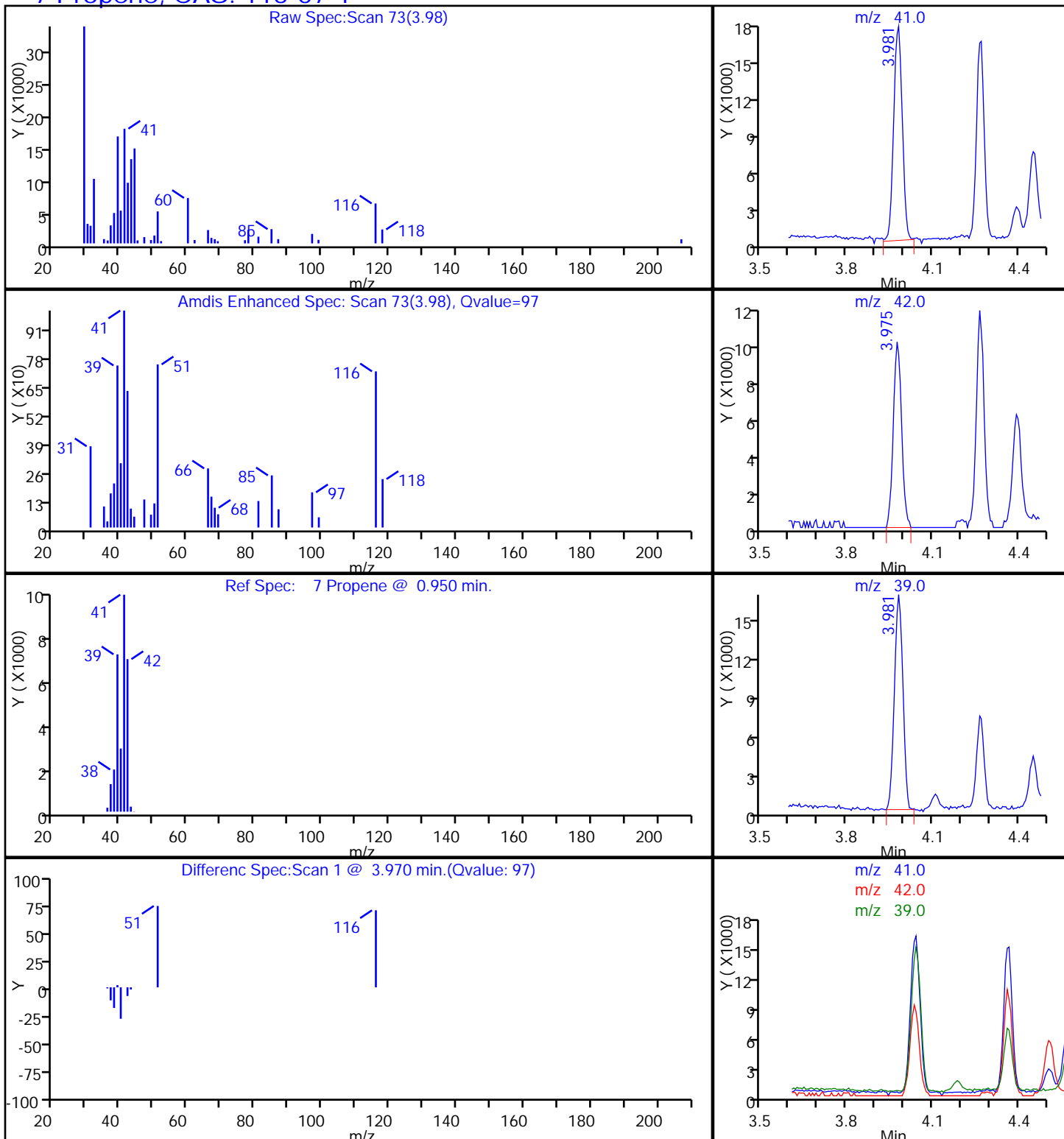
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

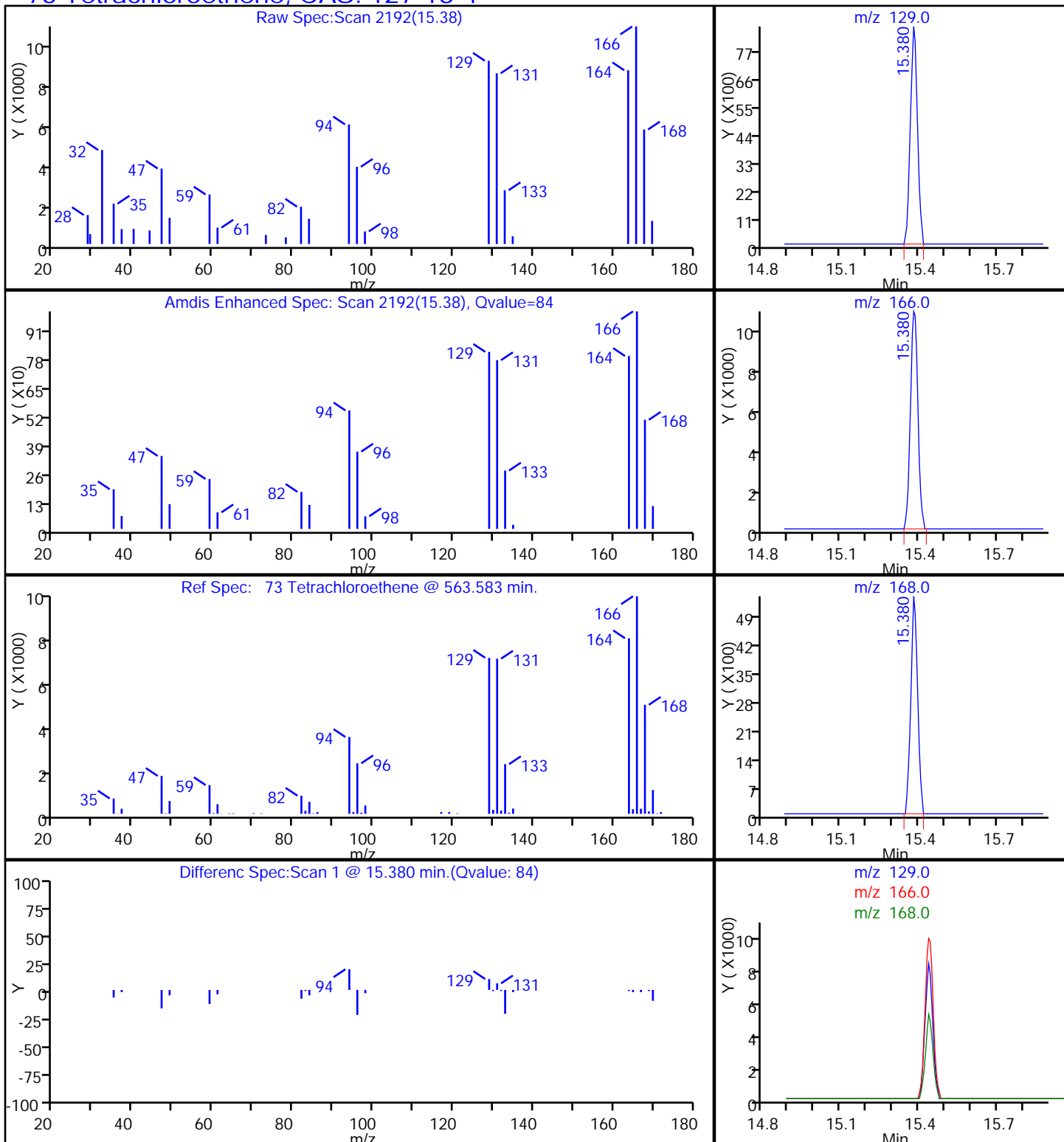
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

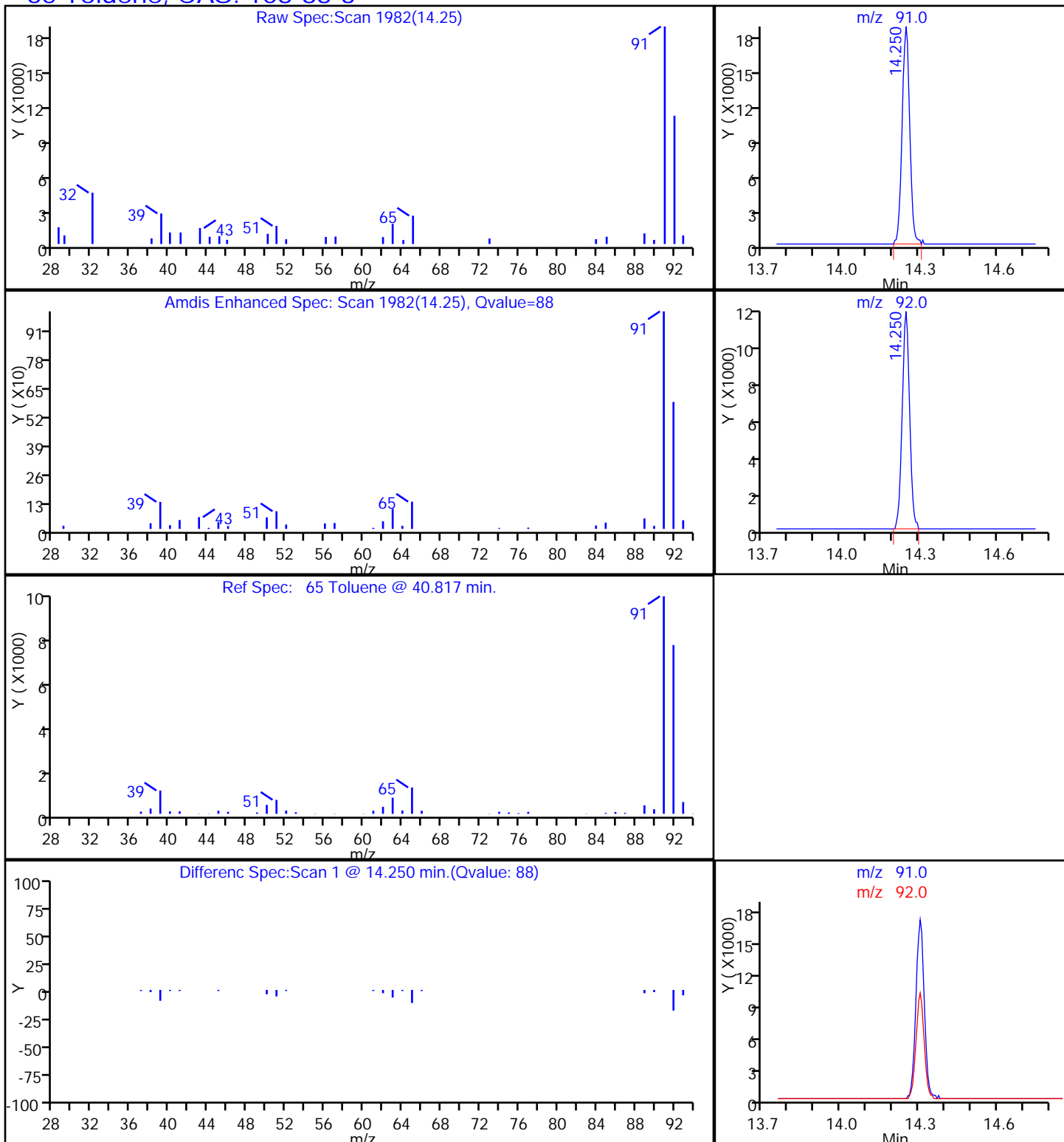
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P113.D

Injection Date: 20-Mar-2014 04:32:30

Instrument ID: MJ

Lims ID: 140-1065-A-3

Lab Sample ID: 140-1065-3

Client ID: SAMPLE 4- AMBIENT

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

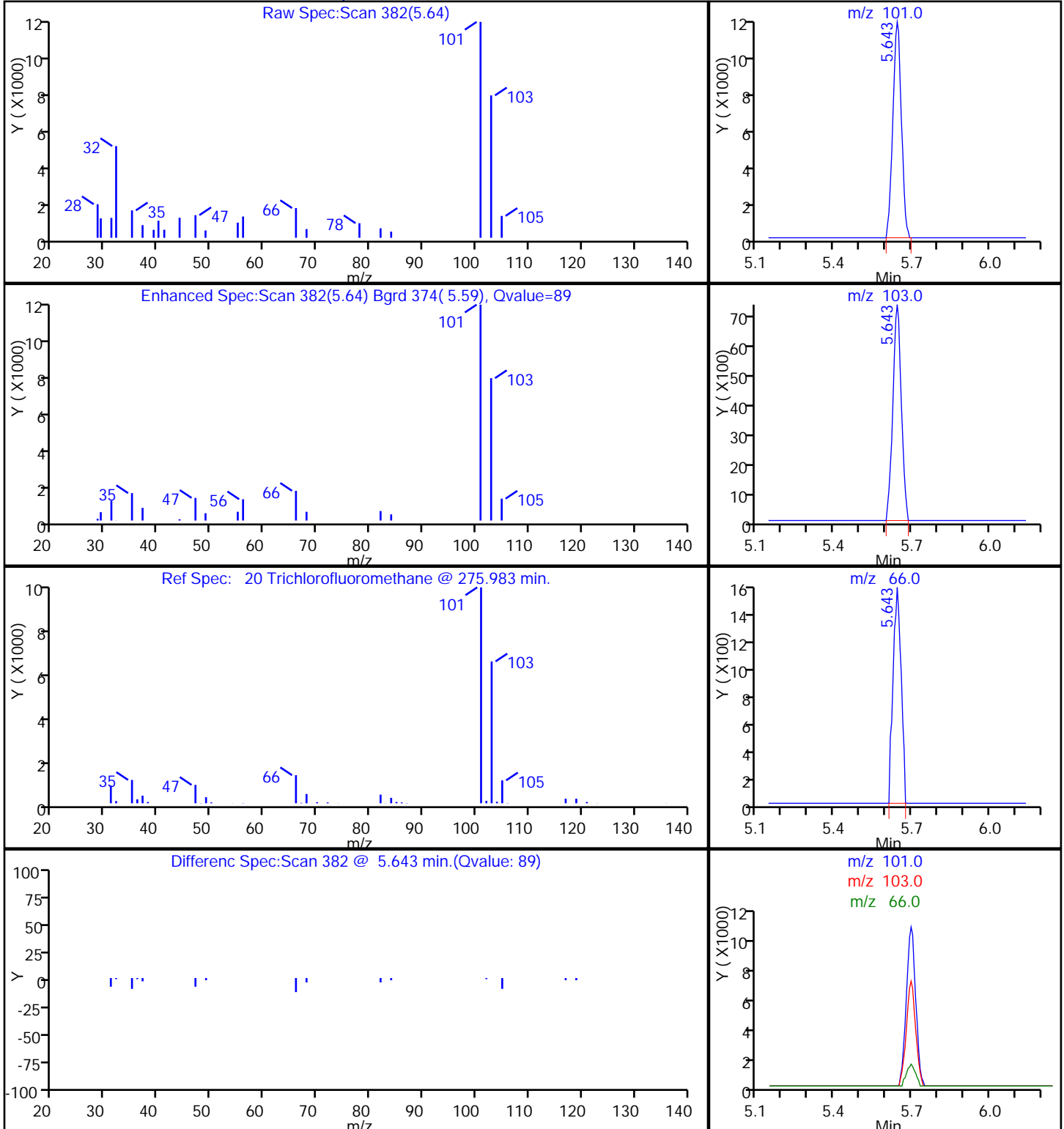
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 5- ROOM #11 Lab Sample ID: 140-1065-4
 Matrix: Air Lab File ID: JC19P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:28
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 05:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.13	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.073	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.36	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.59		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.20	J	0.50	0.045
67-64-1	Acetone	58.08	4.4	J	5.0	1.4
71-43-2	Benzene	78.11	0.22		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 5- ROOM #11 Lab Sample ID: 140-1065-4
 Matrix: Air Lab File ID: JC19P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:28
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 05:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.069	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.051	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.55		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.16	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.20	0.068
64-17-5	Ethanol	46.07	120		2.0	2.0
100-41-4	Ethylbenzene	106.17	0.072	J	0.20	0.068
142-82-5	Heptane	100.21	0.16	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.15	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	4.5		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.21	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.21		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.092	J	0.20	0.061
115-07-1	Propene	42.08	0.76	cn	0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.18	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	0.44		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 5- ROOM #11 Lab Sample ID: 140-1065-4
 Matrix: Air Lab File ID: JC19P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:28
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 05:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 5- ROOM #11 Lab Sample ID: 140-1065-4
 Matrix: Air Lab File ID: JC19P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:28
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 05:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.65	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.34	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.1	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	1.7		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.80	J	2.0	0.18
67-64-1	Acetone	58.08	10	J	12	3.3
71-43-2	Benzene	78.11	0.71		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 5- ROOM #11 Lab Sample ID: 140-1065-4
 Matrix: Air Lab File ID: JC19P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:28
 Sample wt/vol: 200(mL) Date Analyzed: 03/20/2014 05:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.44	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.25	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.53	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34
64-17-5	Ethanol	46.07	220		3.8	3.8
100-41-4	Ethylbenzene	106.17	0.31	J	0.87	0.30
142-82-5	Heptane	100.21	0.65	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.53	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	11		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.75	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	0.91		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.40	J	0.87	0.26
115-07-1	Propene	42.08	1.3	cn	0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.2	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	1.7		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: SAMPLE 5- ROOM #11 Lab Sample ID: 140-1065-4
 Matrix: Air Lab File ID: JC19P114.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:28
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 05:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D
 Lims ID: 140-1065-A-4 Lab Sample ID: 140-1065-4
 Client ID: SAMPLE 5- ROOM #11
 Sample Type: Client
 Inject. Date: 20-Mar-2014 05:26:30 ALS Bottle#: 14 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1065-a-4
 Misc. Info.: J031914,TO15,,140-0000532-021
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 12:58:28 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh

Date: 20-Mar-2014 12:58:28

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.377	9.385	-0.008	91	364563	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1756539	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1484360	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	1018316	3.88	
7 Propene	41	3.976	3.973	0.003	94	33949	0.3037	
8 Dichlorodifluoromethane	85	4.030	4.032	-0.002	99	64934	0.1798	
9 Chloromethane	52	4.229	4.231	-0.002	97	8955	0.2183	
17 Ethanol	31	5.122	5.119	0.003	94	1362804	46.6	
19 2-Methylbutane	43	5.407	5.409	-0.002	90	36395	0.2351	
20 Trichlorofluoromethane	101	5.643	5.646	-0.003	91	25602	0.0807	
23 Acetone	58	5.767	5.770	-0.003	92	90840	1.75	
24 Isopropyl alcohol	45	5.859	5.850	0.009	97	246237	1.80	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.582	-0.008	59	6023	0.0274	
31 Methylene Chloride	84	6.752	6.754	-0.002	85	8373	0.0859	
39 2-Butanone (MEK)	72	8.597	8.589	0.008	96	4996	0.1448	
40 Hexane	56	8.629	8.637	-0.008	76	5950	0.0607	
43 Chloroform	83	9.388	9.396	-0.008	3	4314	0.0203	
48 Benzene	78	11.018	11.026	-0.008	89	26680	0.0885	
49 Cyclohexane	69	11.028	11.031	-0.003	64	3688	0.0620	
50 Carbon tetrachloride	117	11.044	11.047	-0.003	81	6900	0.0277	
53 Isooctane	57	11.760	11.763	-0.003	74	15038	0.0292	
54 n-Heptane	71	12.115	12.123	-0.008	82	6736	0.0632	
62 4-Methyl-2-pentanone (MIBK)	43	13.374	13.371	0.003	85	14387	0.0781	
65 Toluene	91	14.251	14.253	-0.002	91	48289	0.1754	
73 Tetrachloroethene	129	15.380	15.383	-0.003	83	9018	0.0703	
76 Ethylbenzene	91	16.526	16.529	-0.003	42	8755	0.0288	
78 m-Xylene & p-Xylene	91	16.677	16.685	-0.008	91	20640	0.0841	
82 o-Xylene	91	17.209	17.212	-0.003	64	9161	0.0368	
93 1,2,4-Trimethylbenzene	105	18.941	18.939	0.002	80	15212	0.0528	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Worklist Smp#: 21

Client ID: SAMPLE 5- ROOM #11

Purge Vol: 500.000 mL

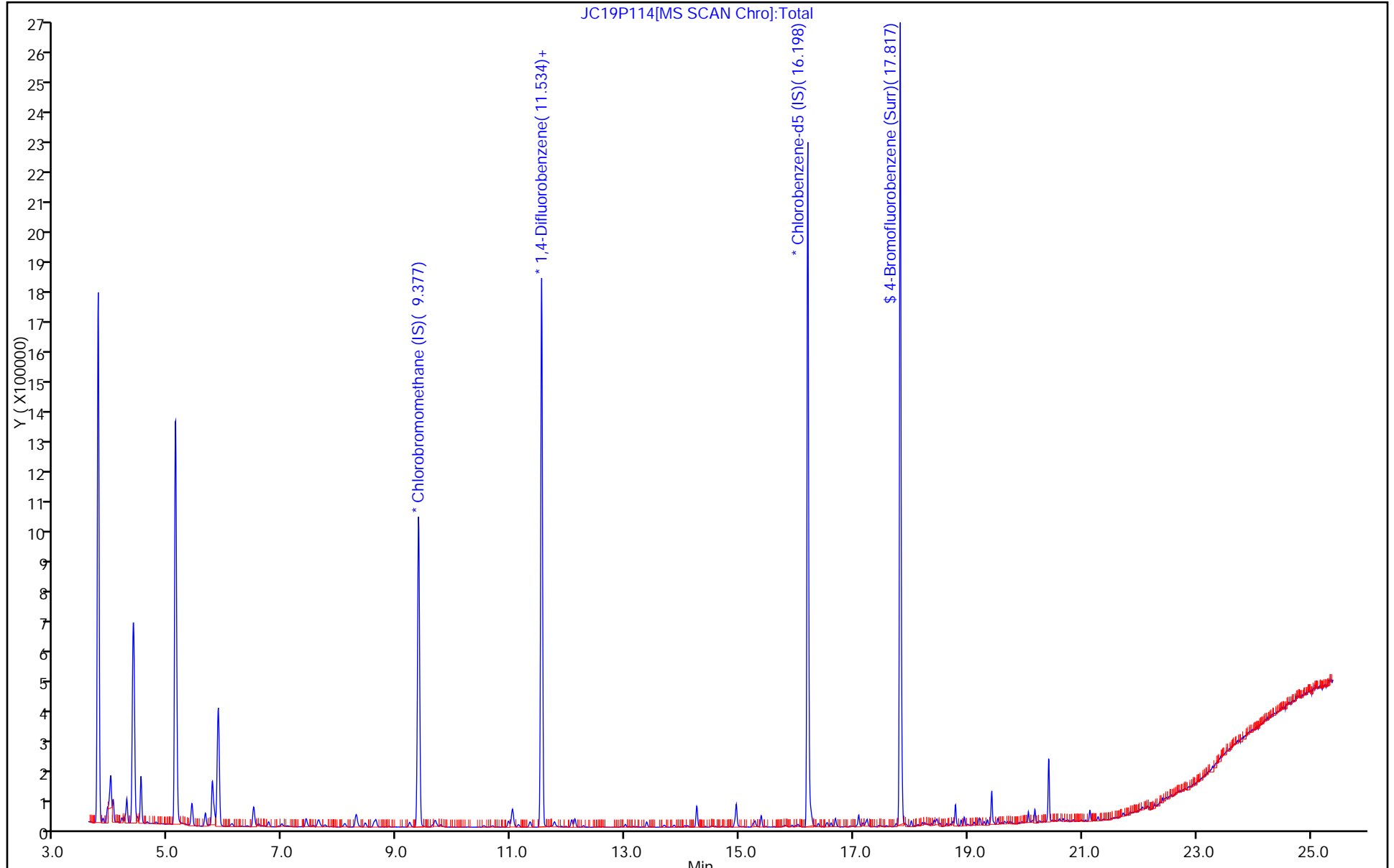
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

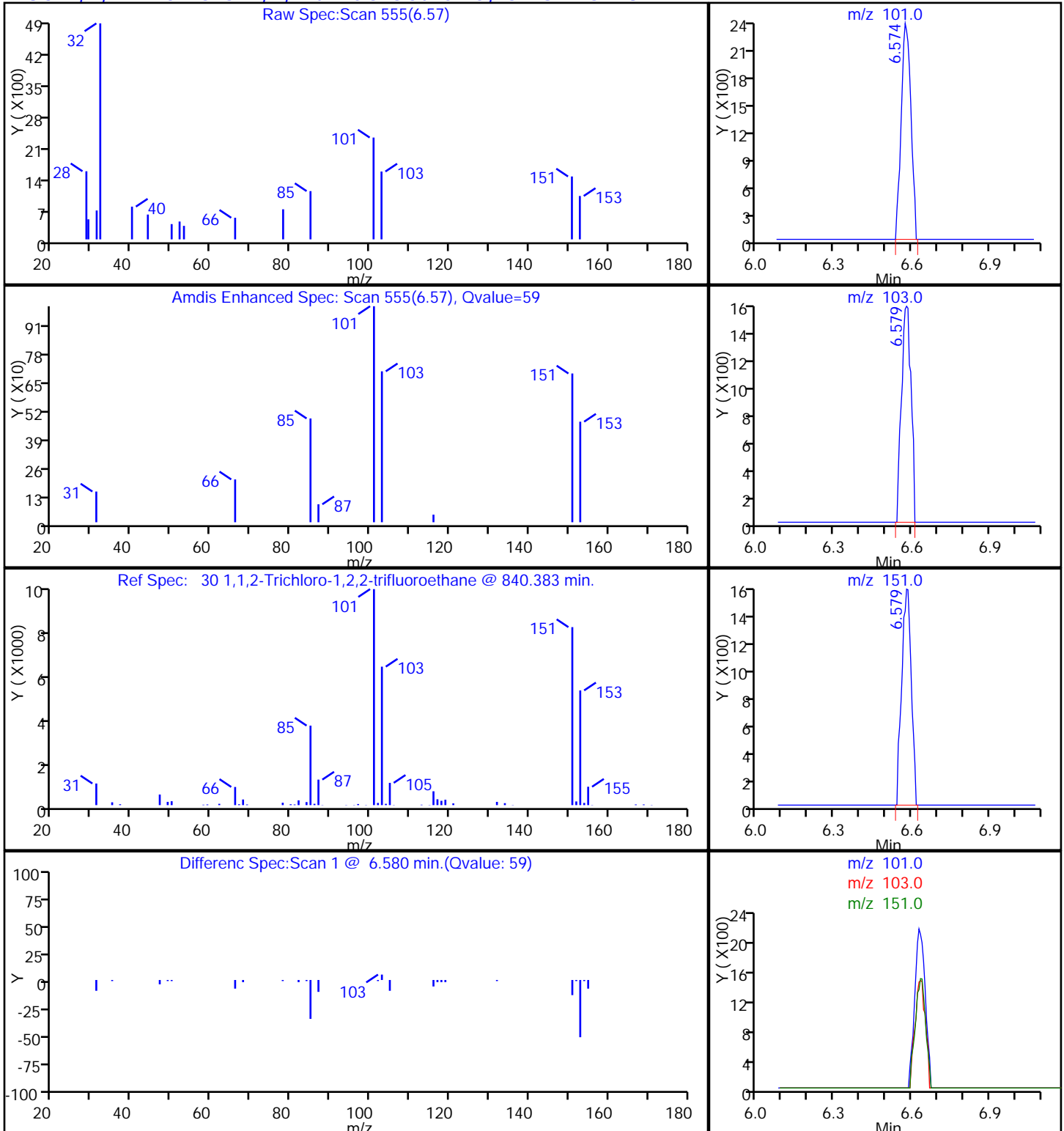
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

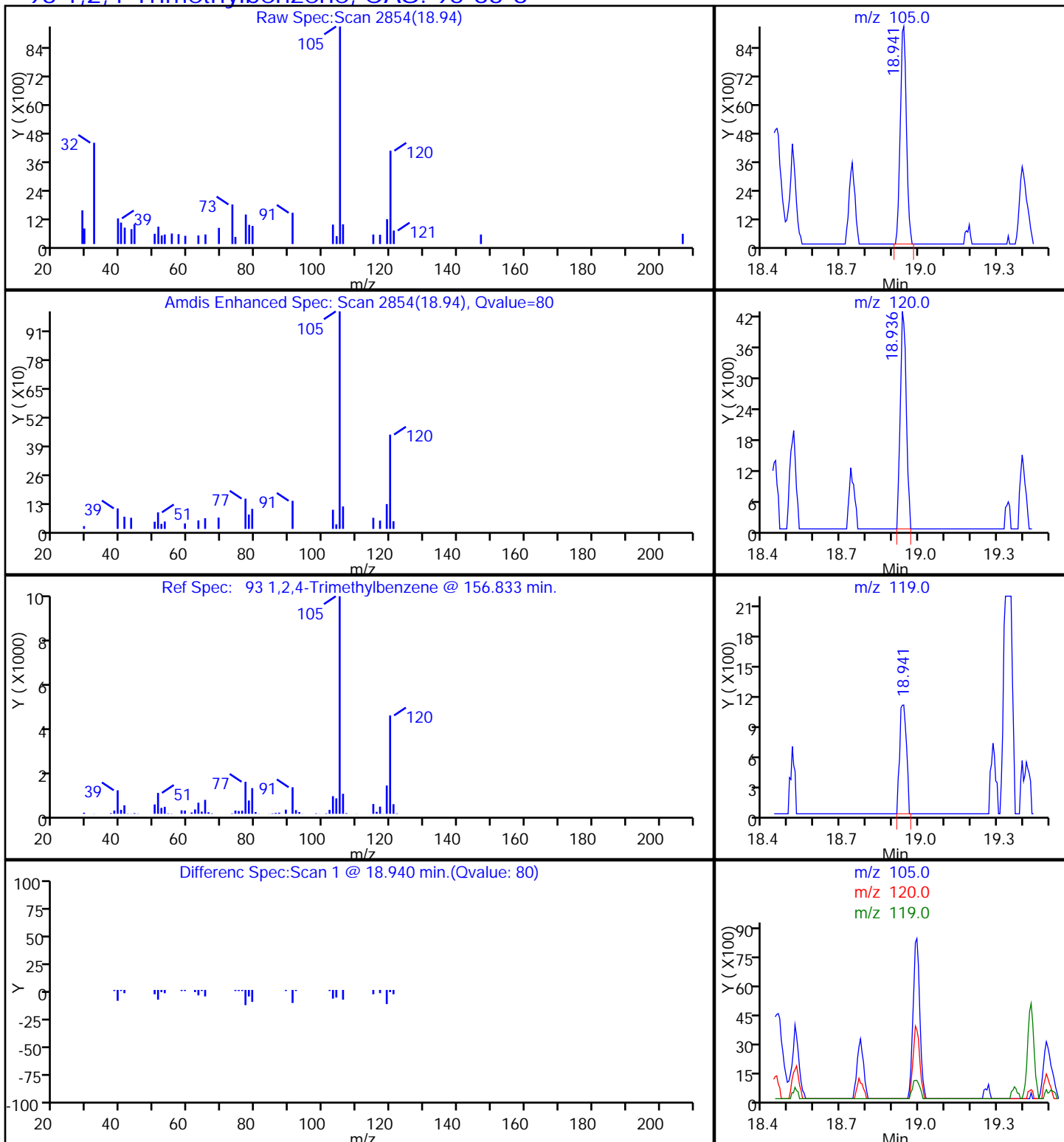
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

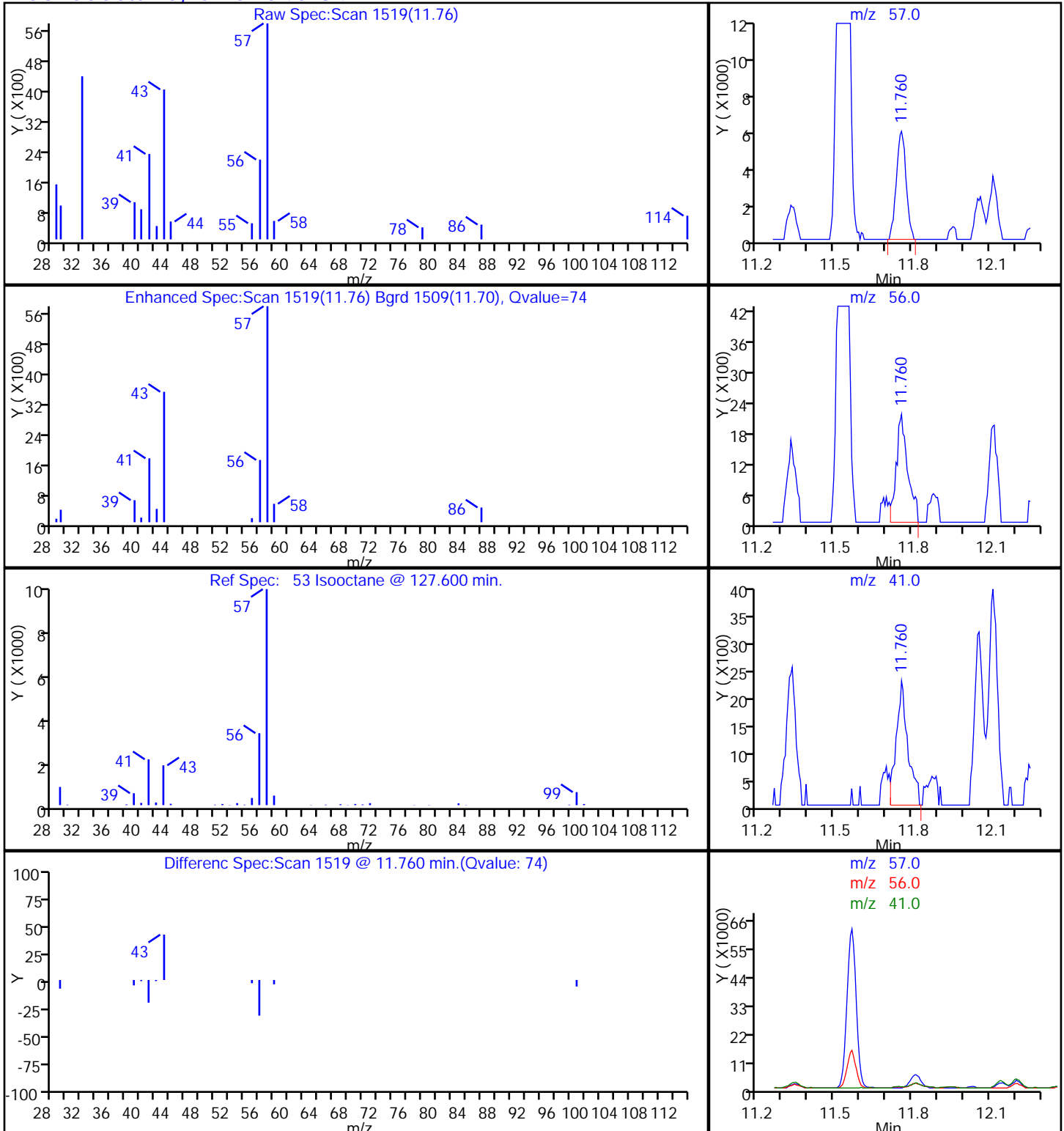
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

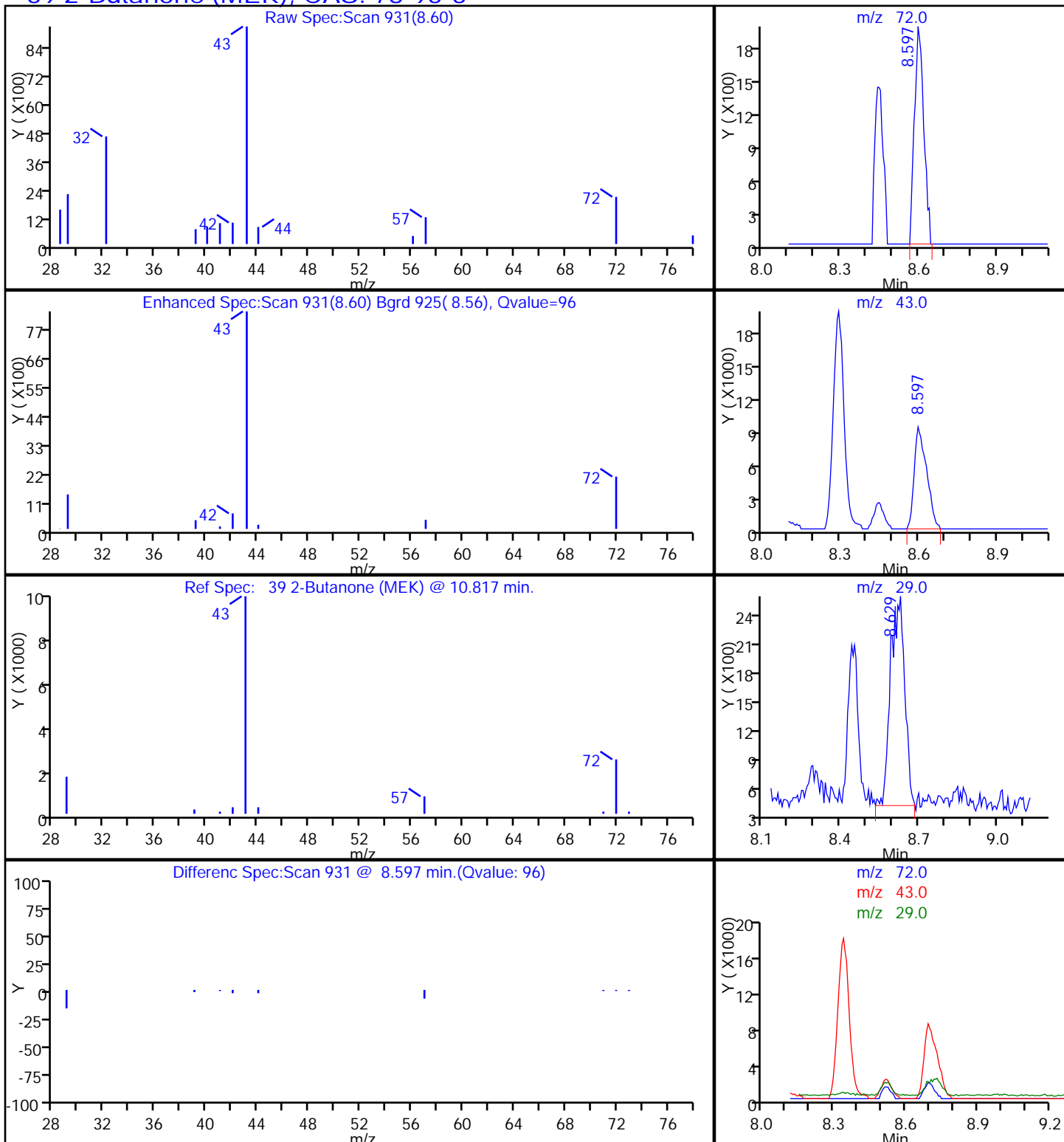
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

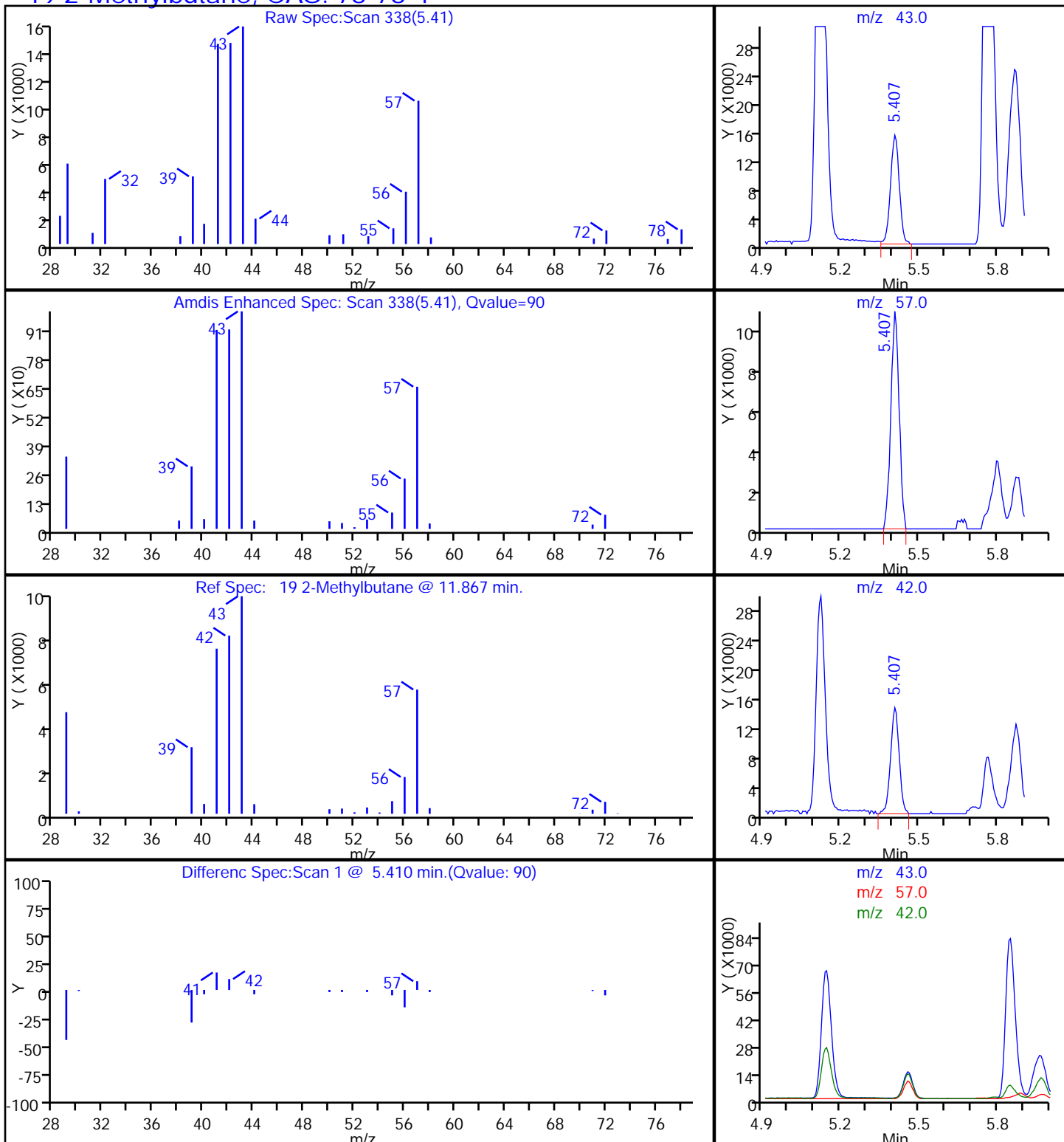
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

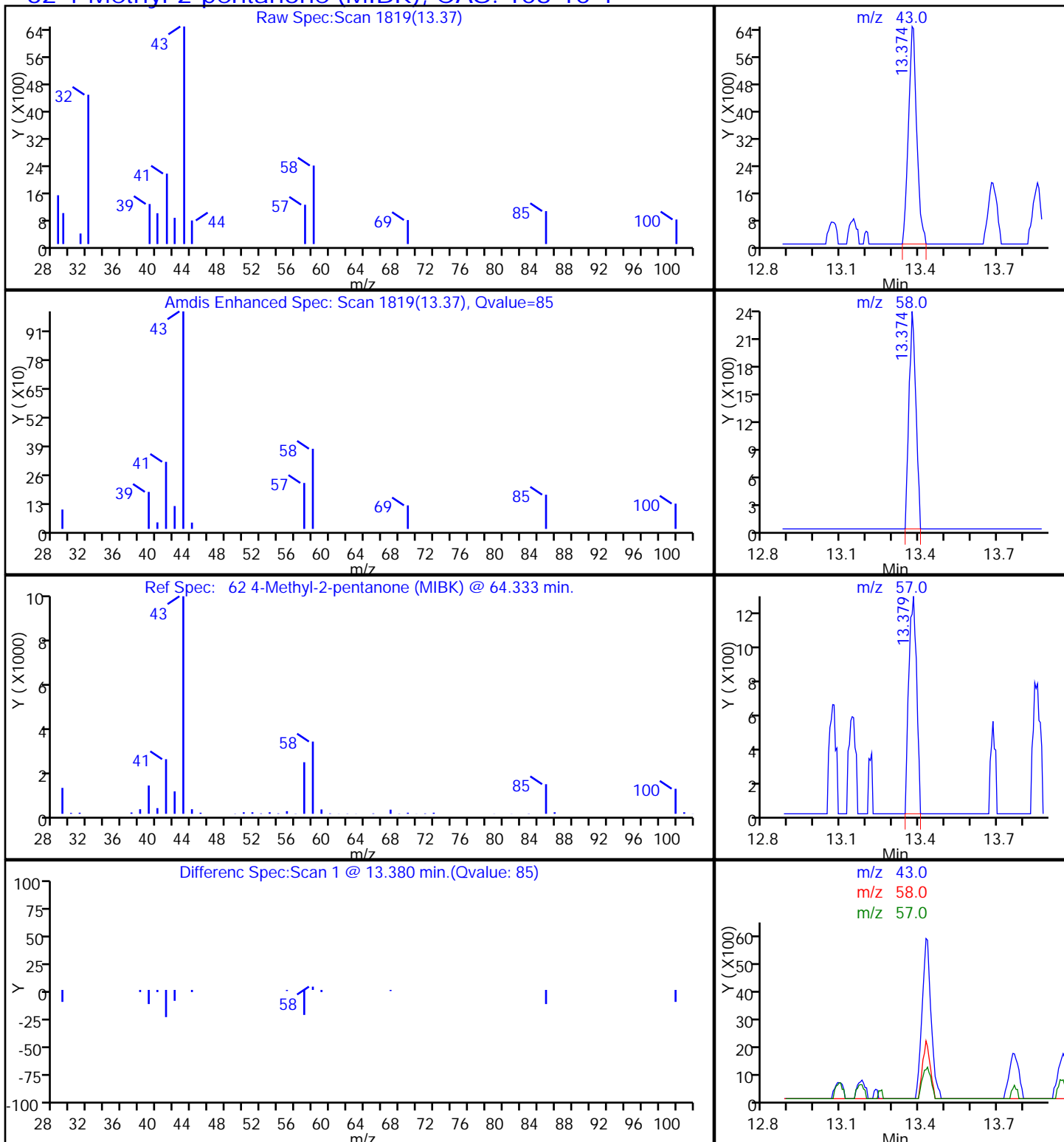
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

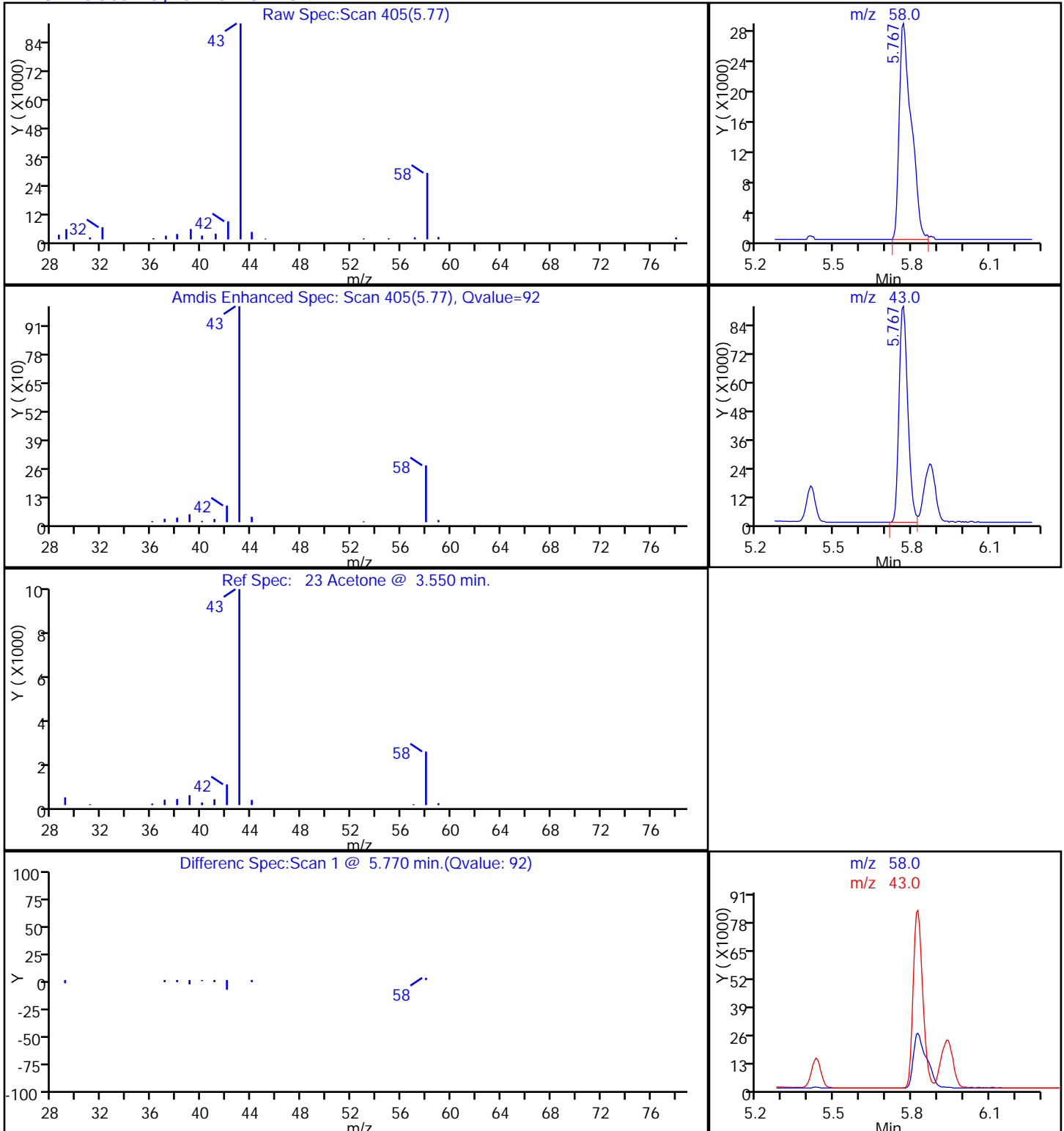
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

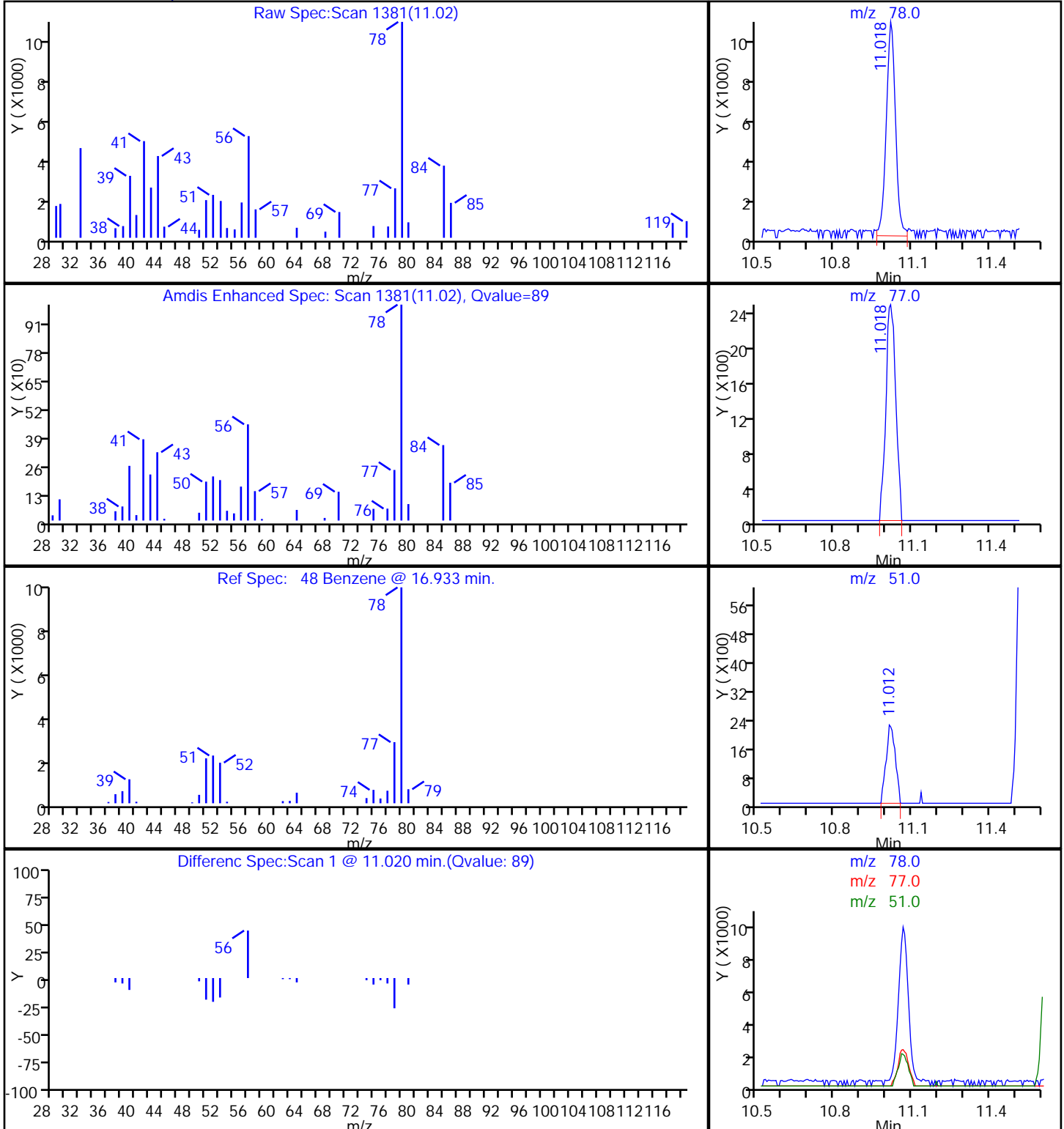
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

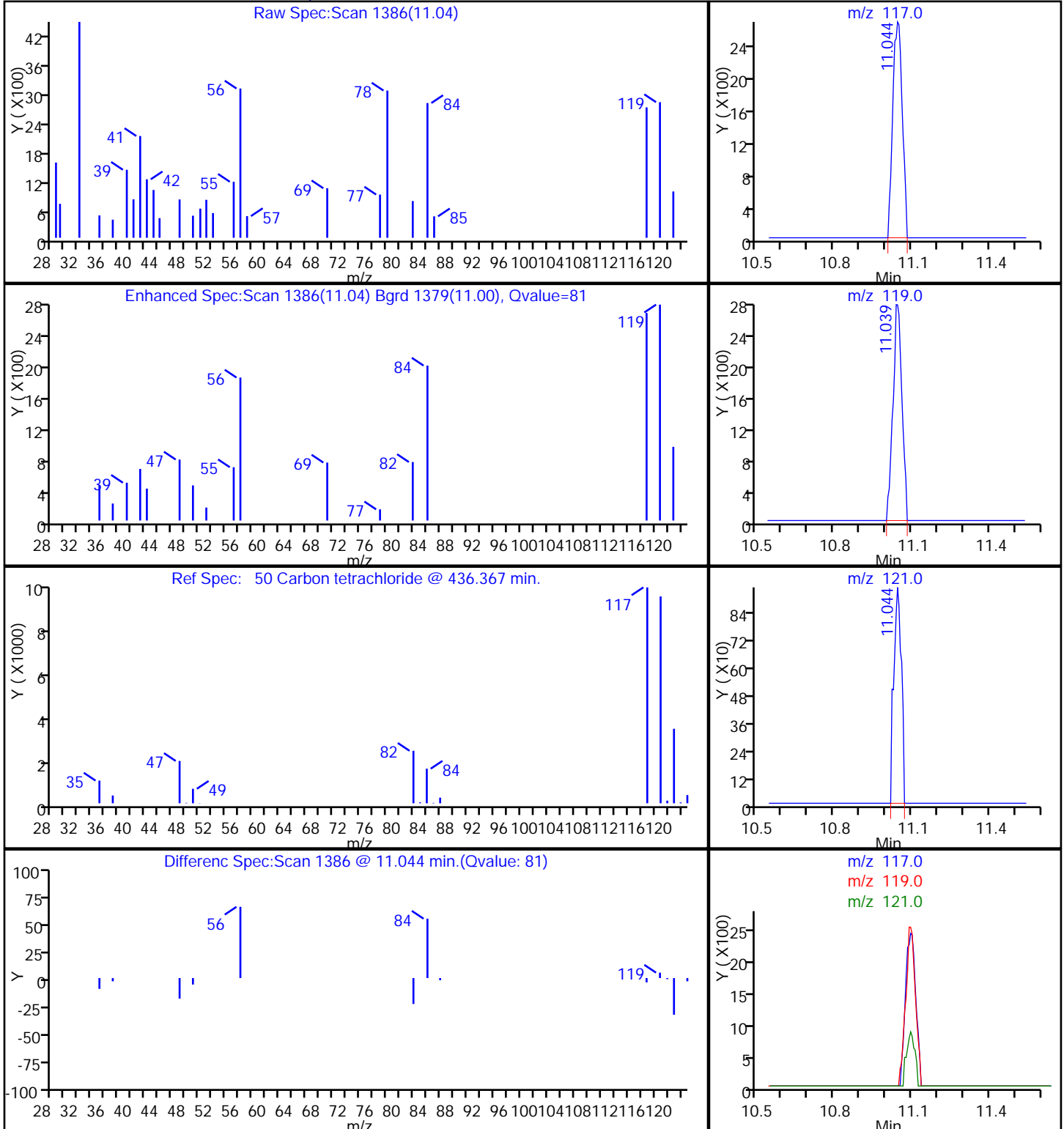
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

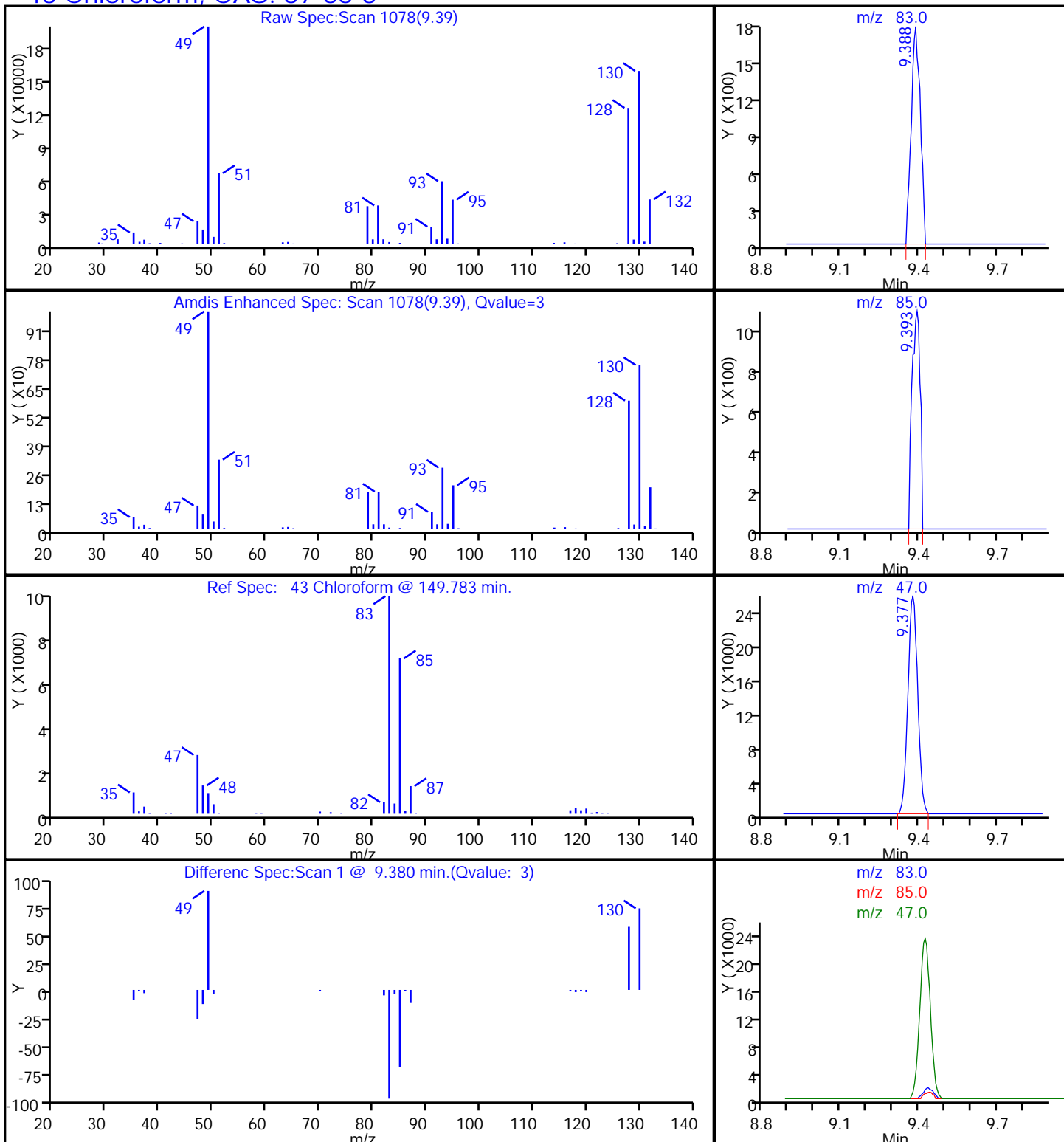
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

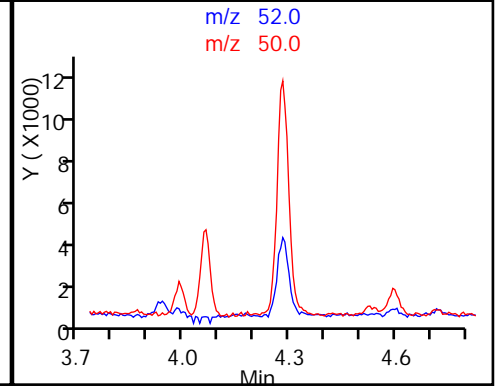
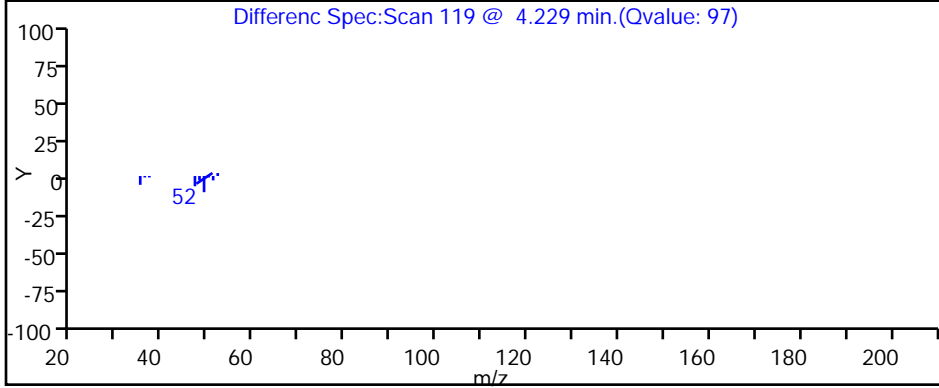
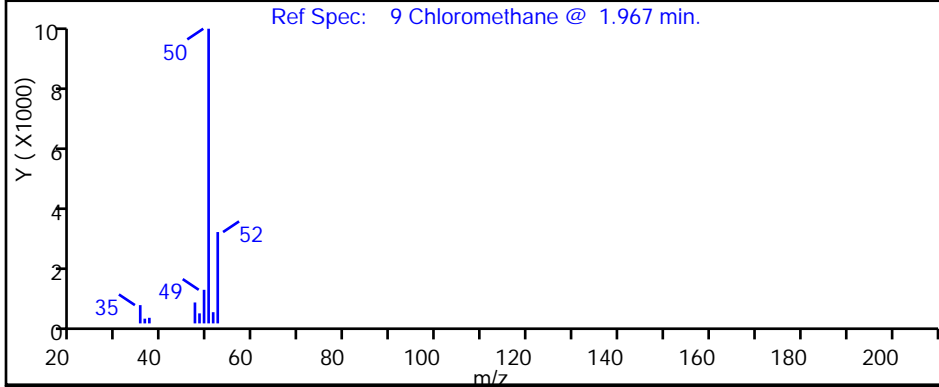
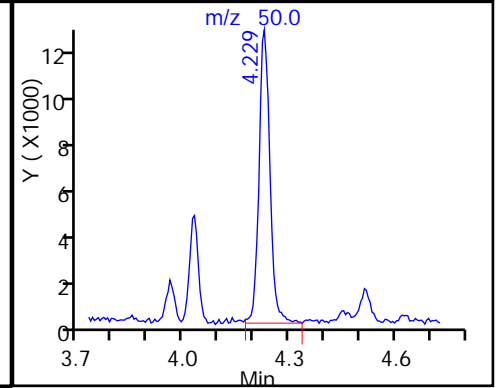
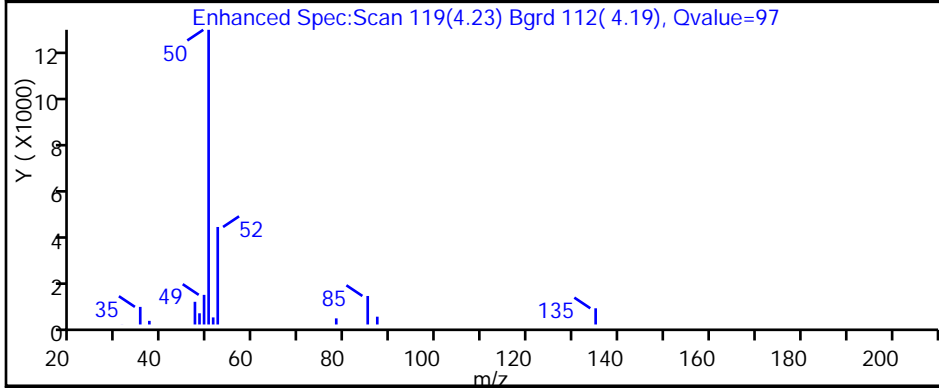
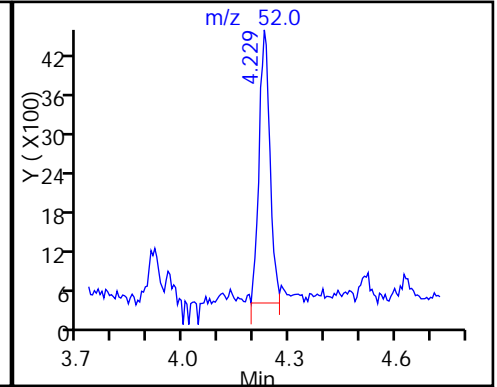
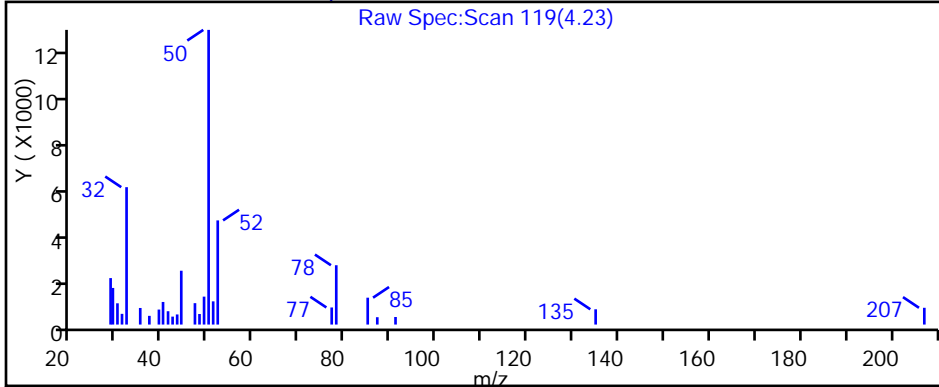
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

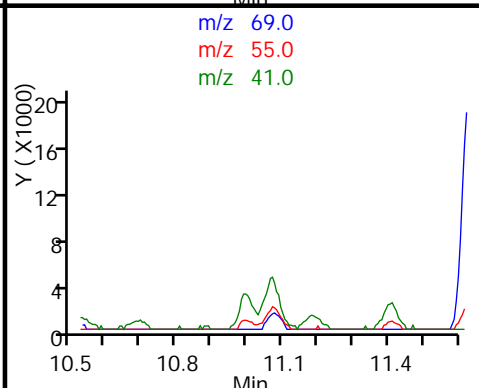
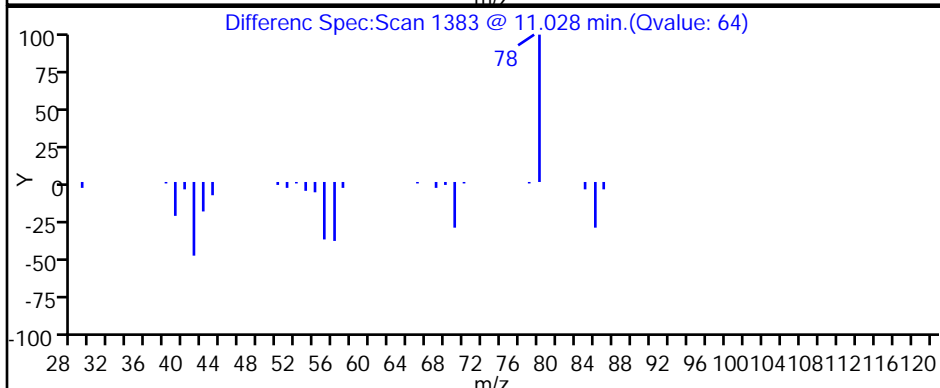
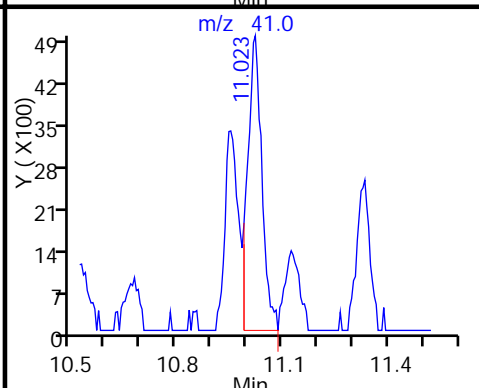
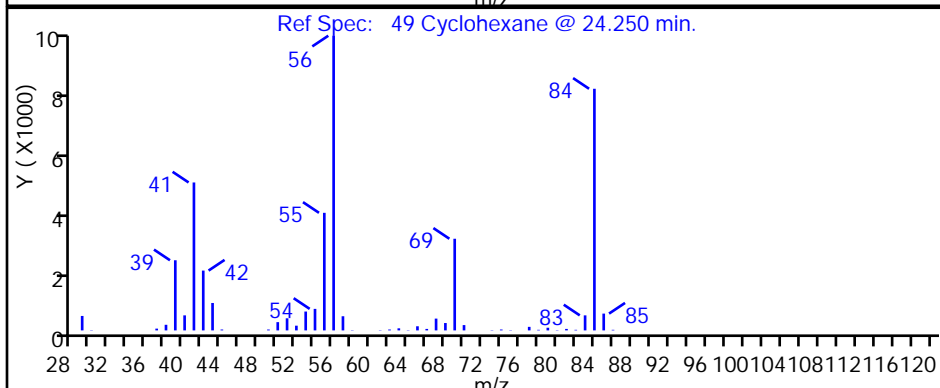
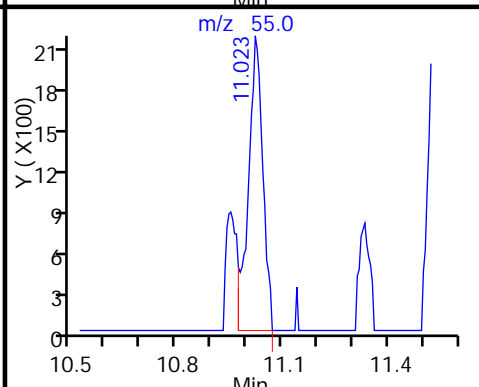
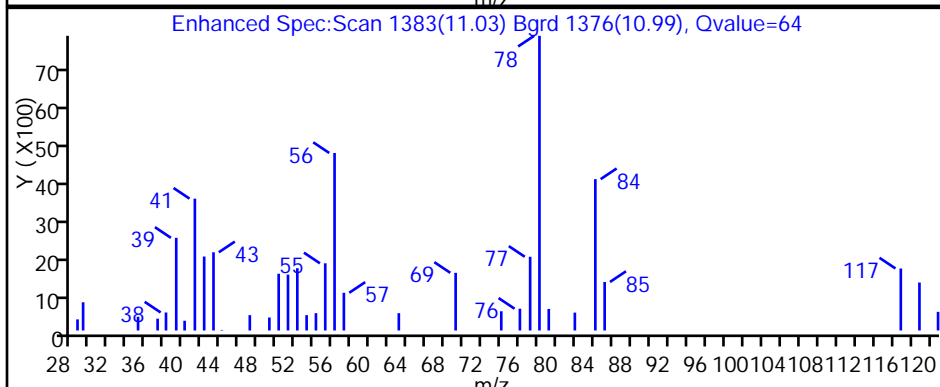
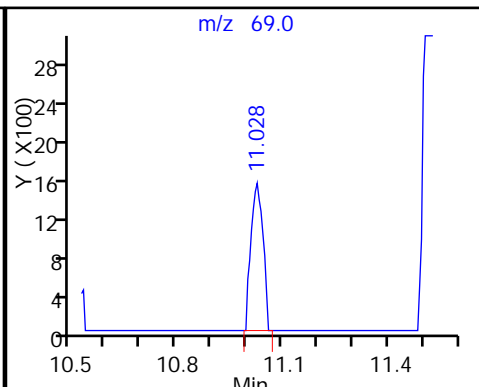
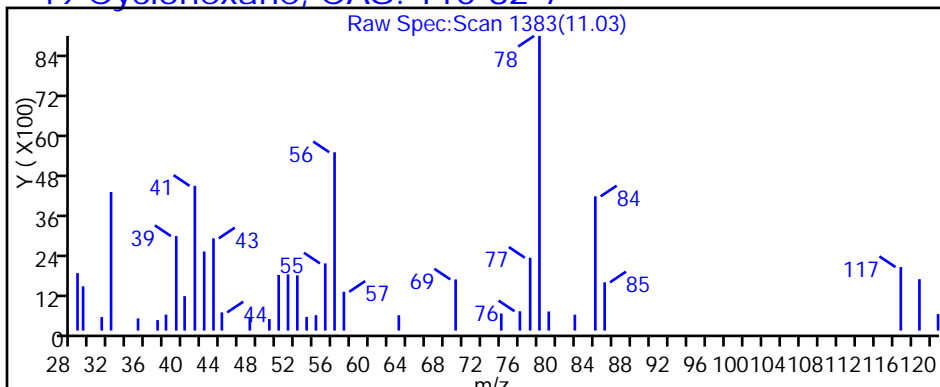
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

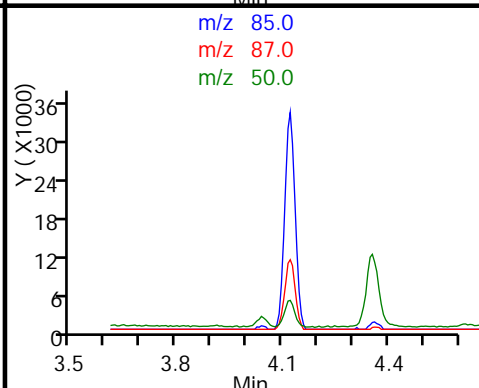
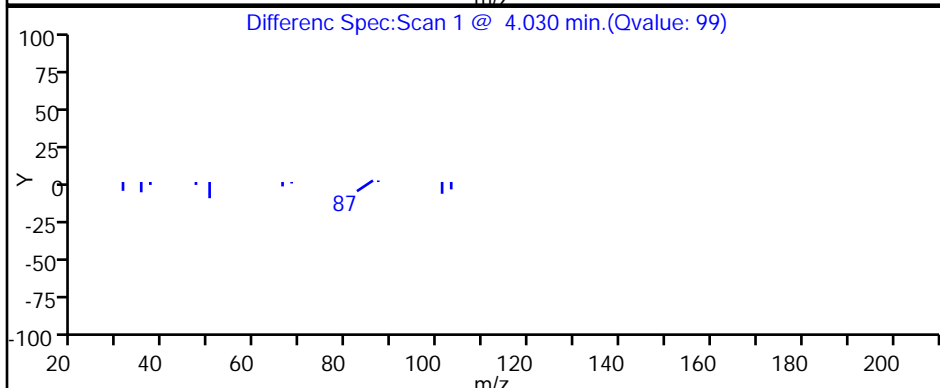
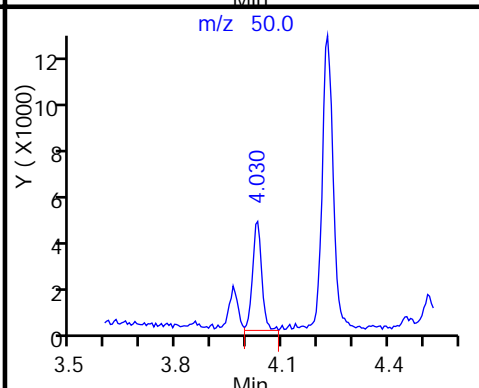
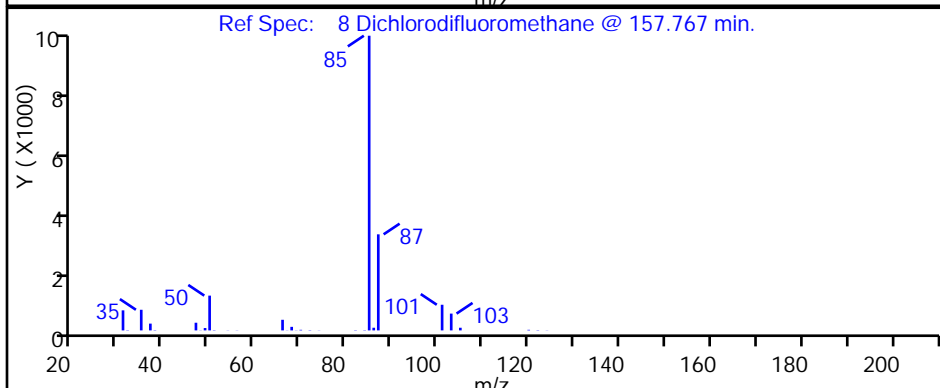
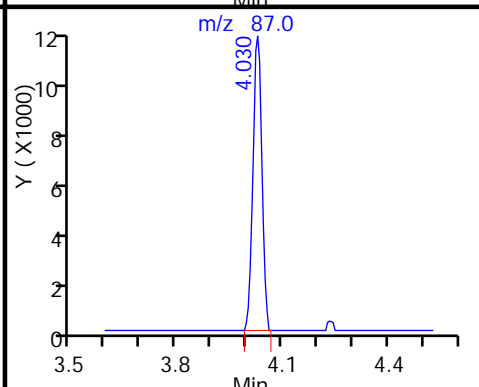
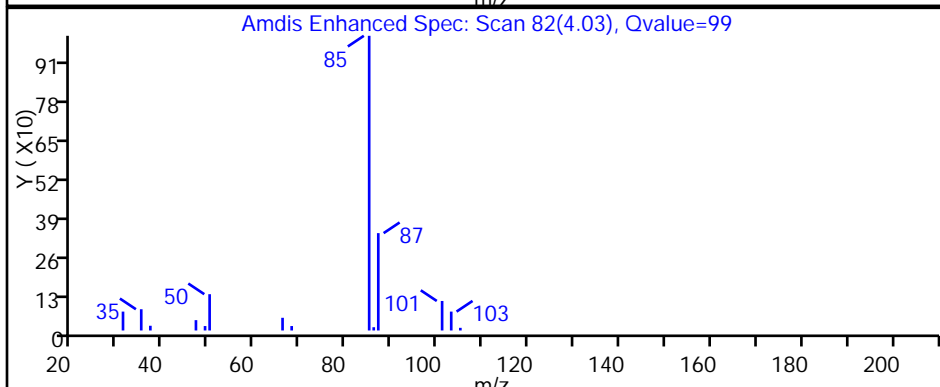
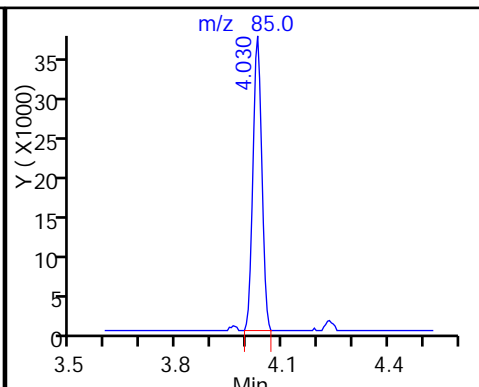
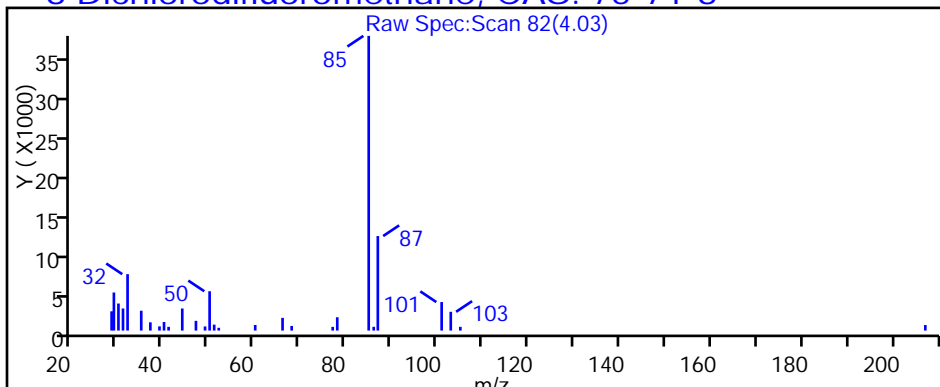
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

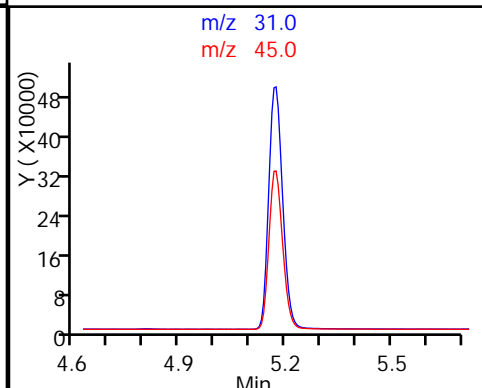
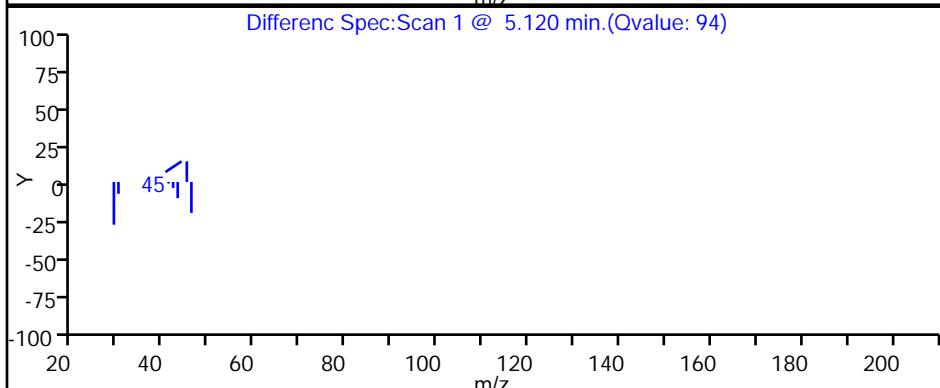
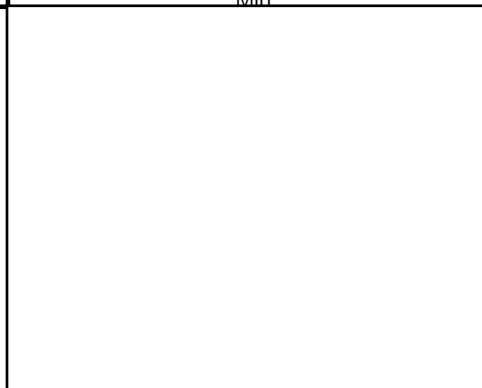
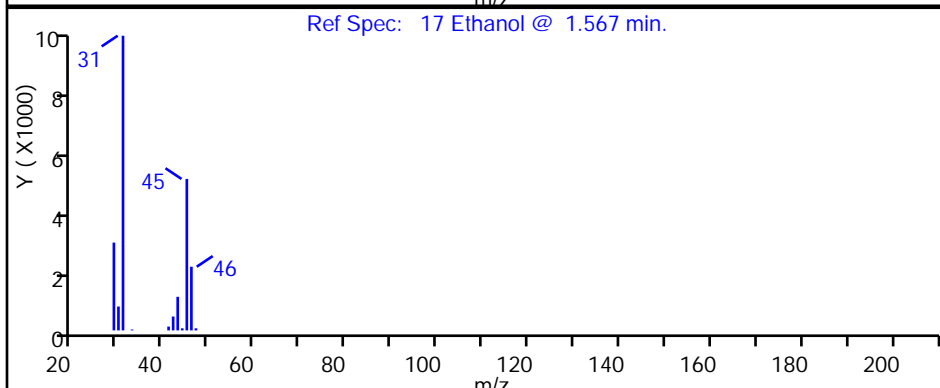
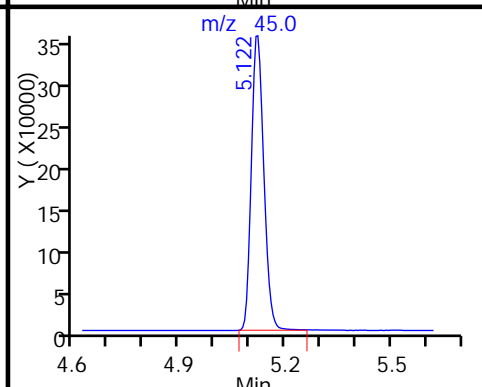
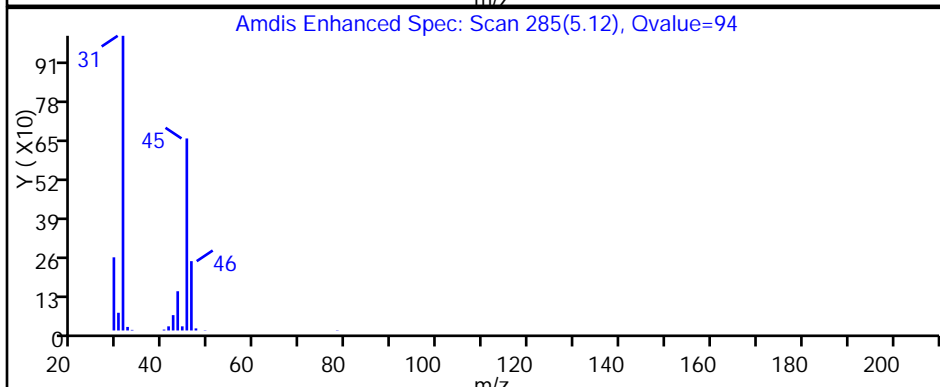
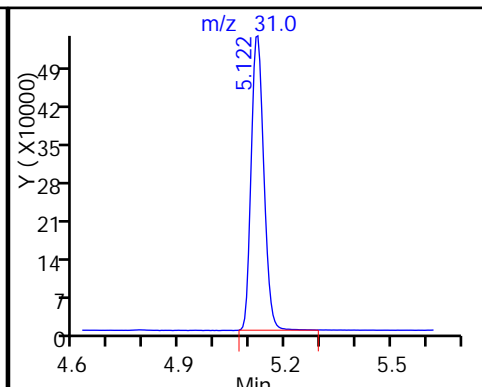
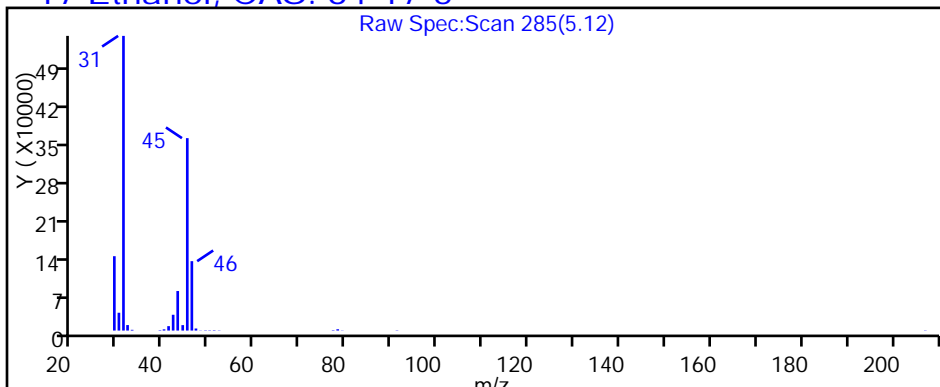
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

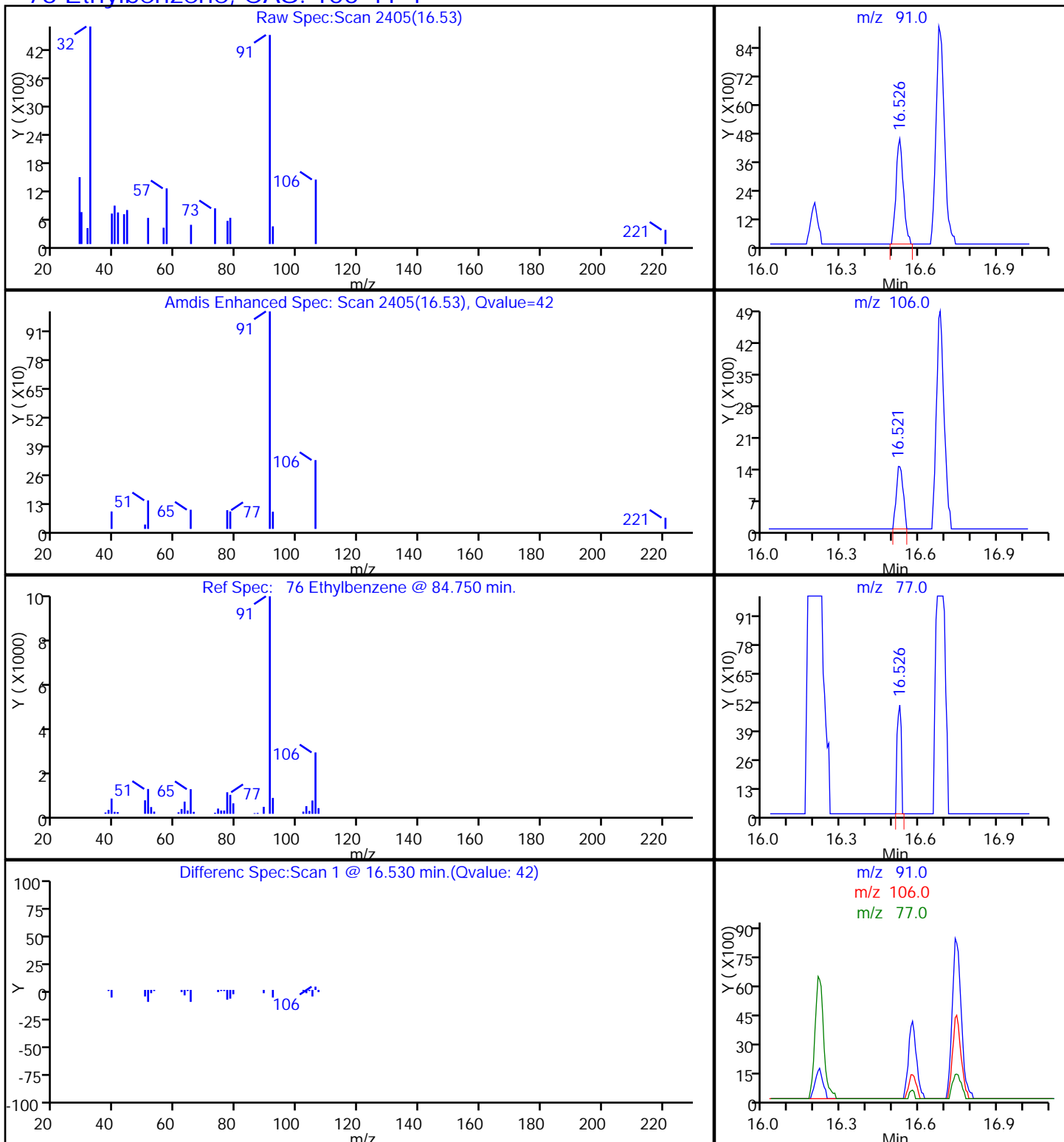
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

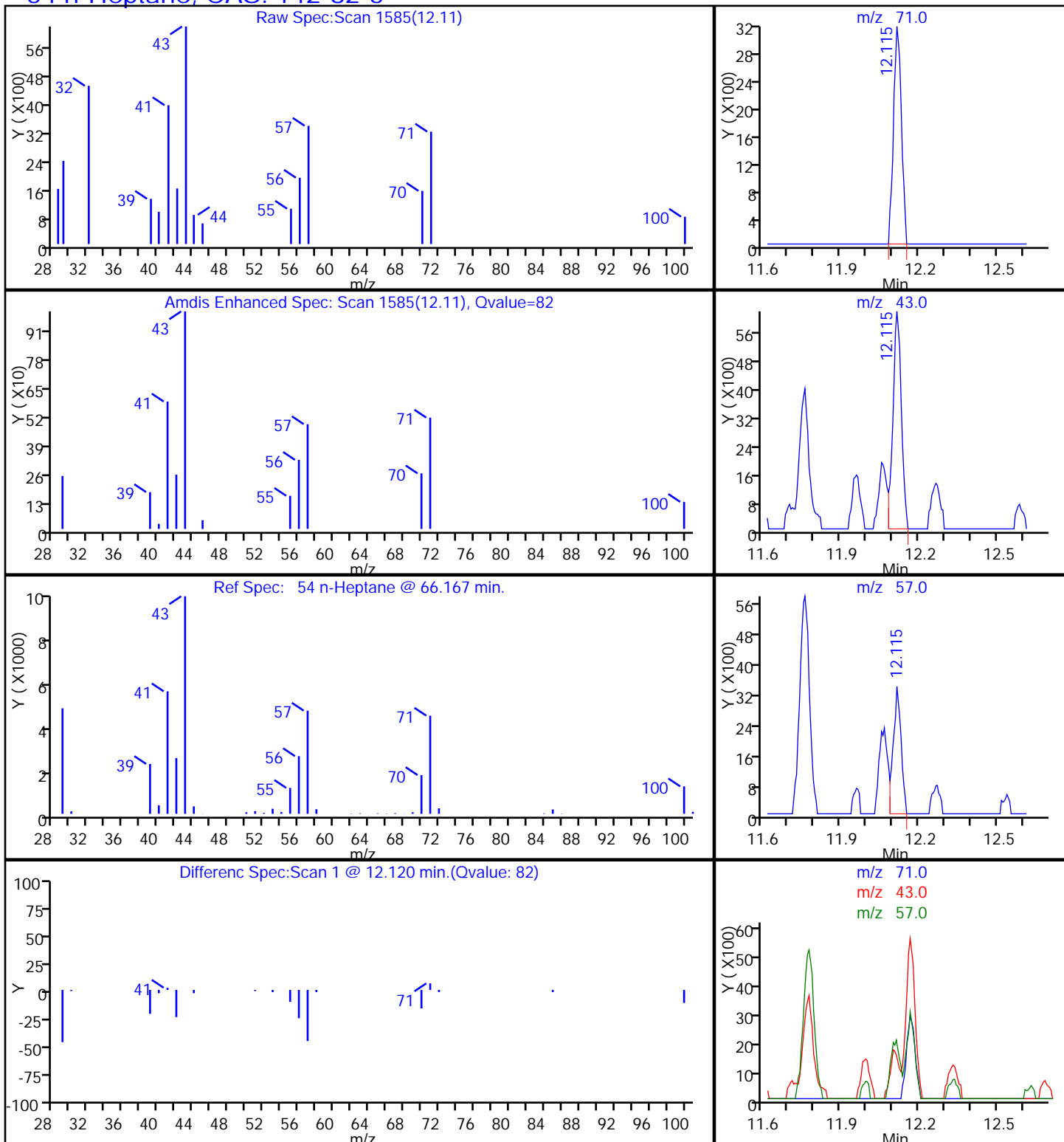
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

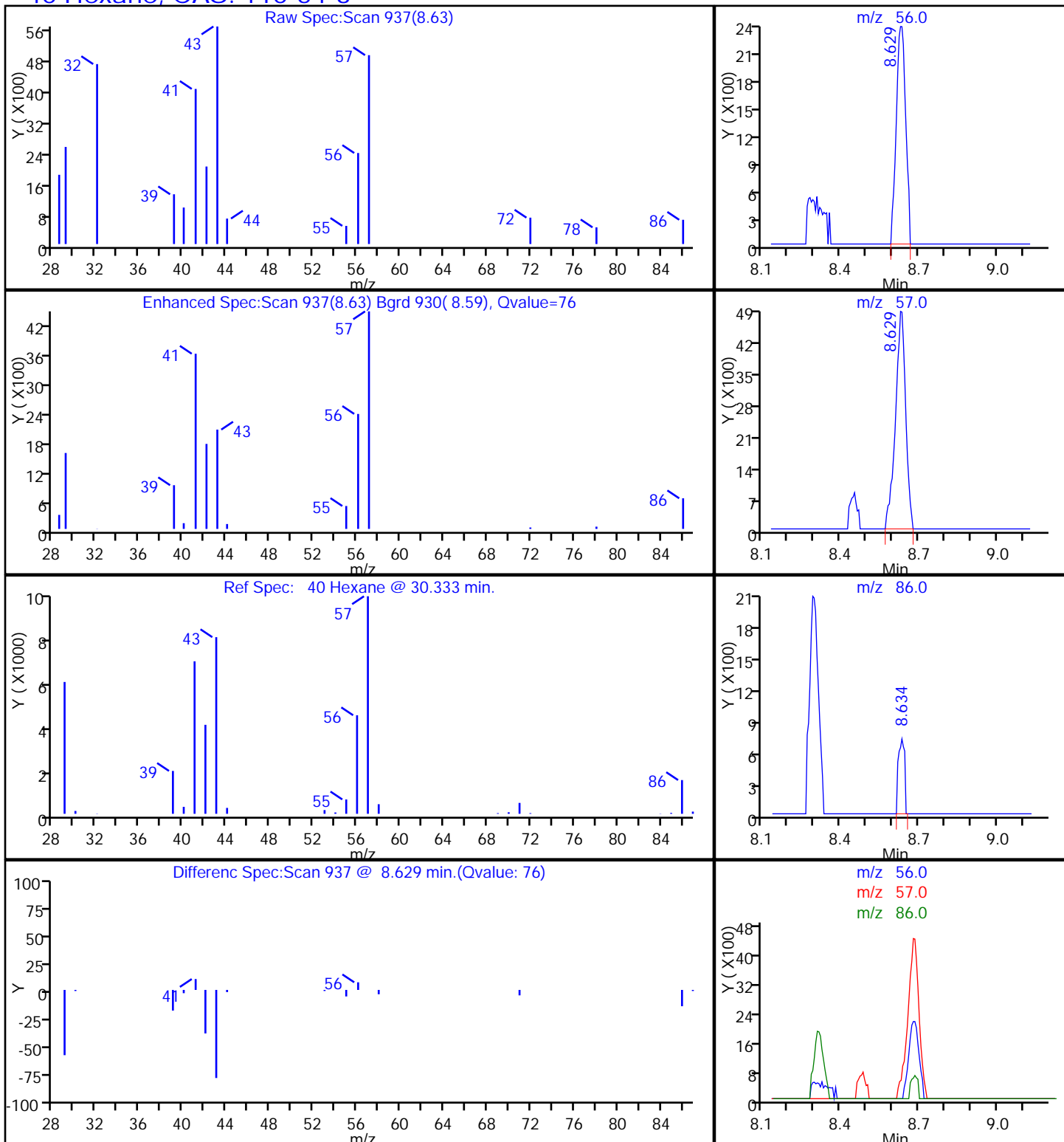
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

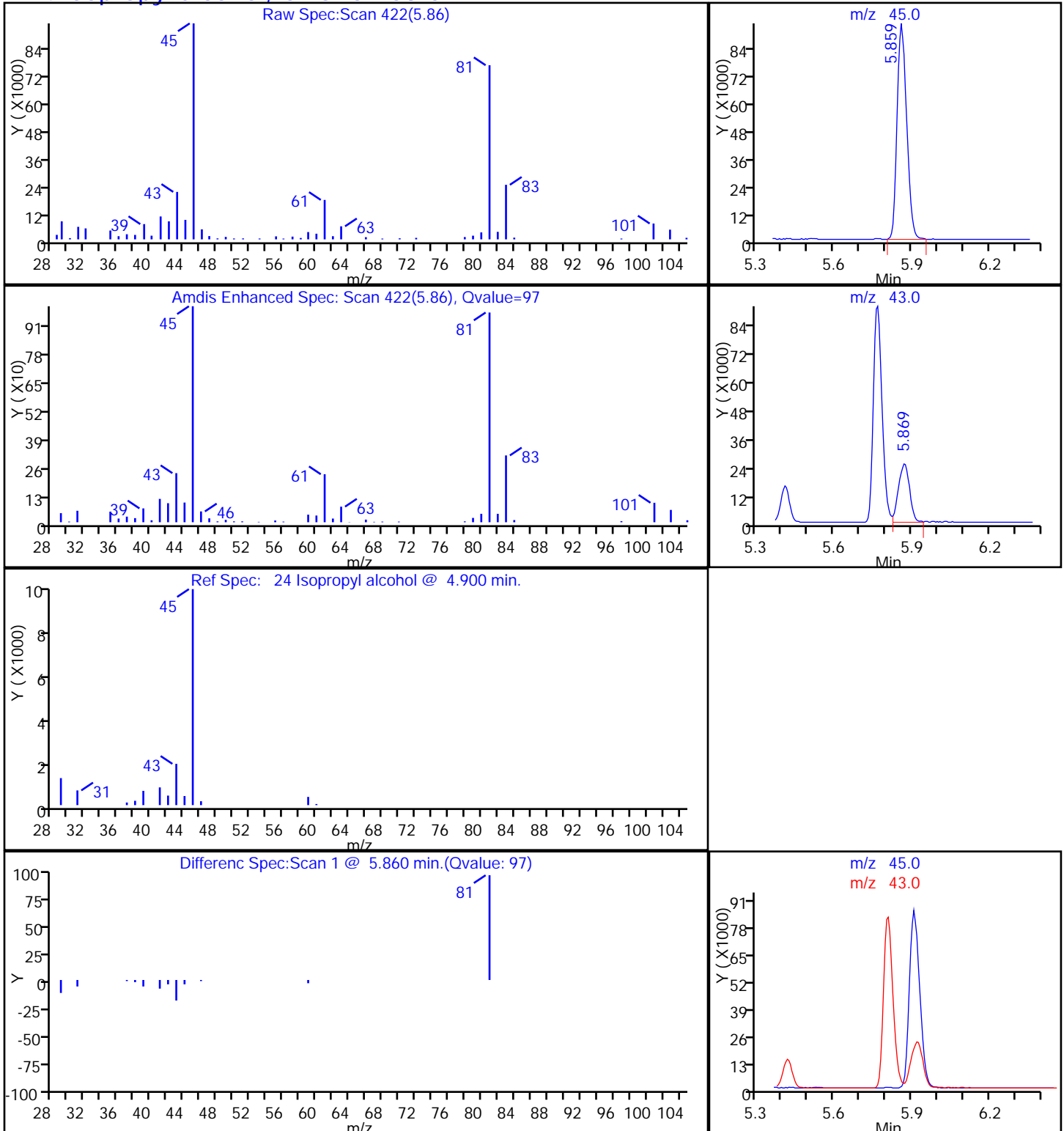
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

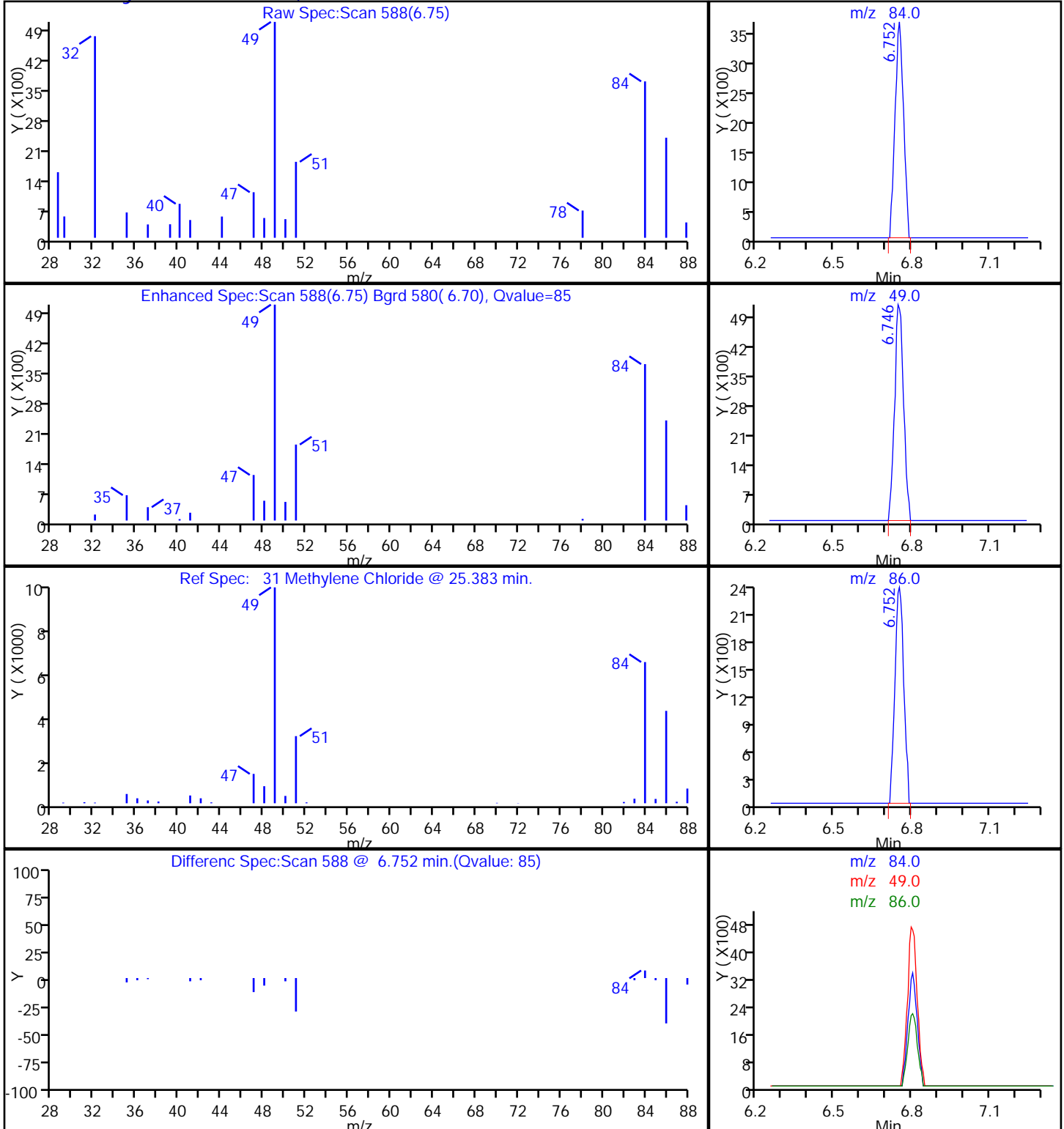
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

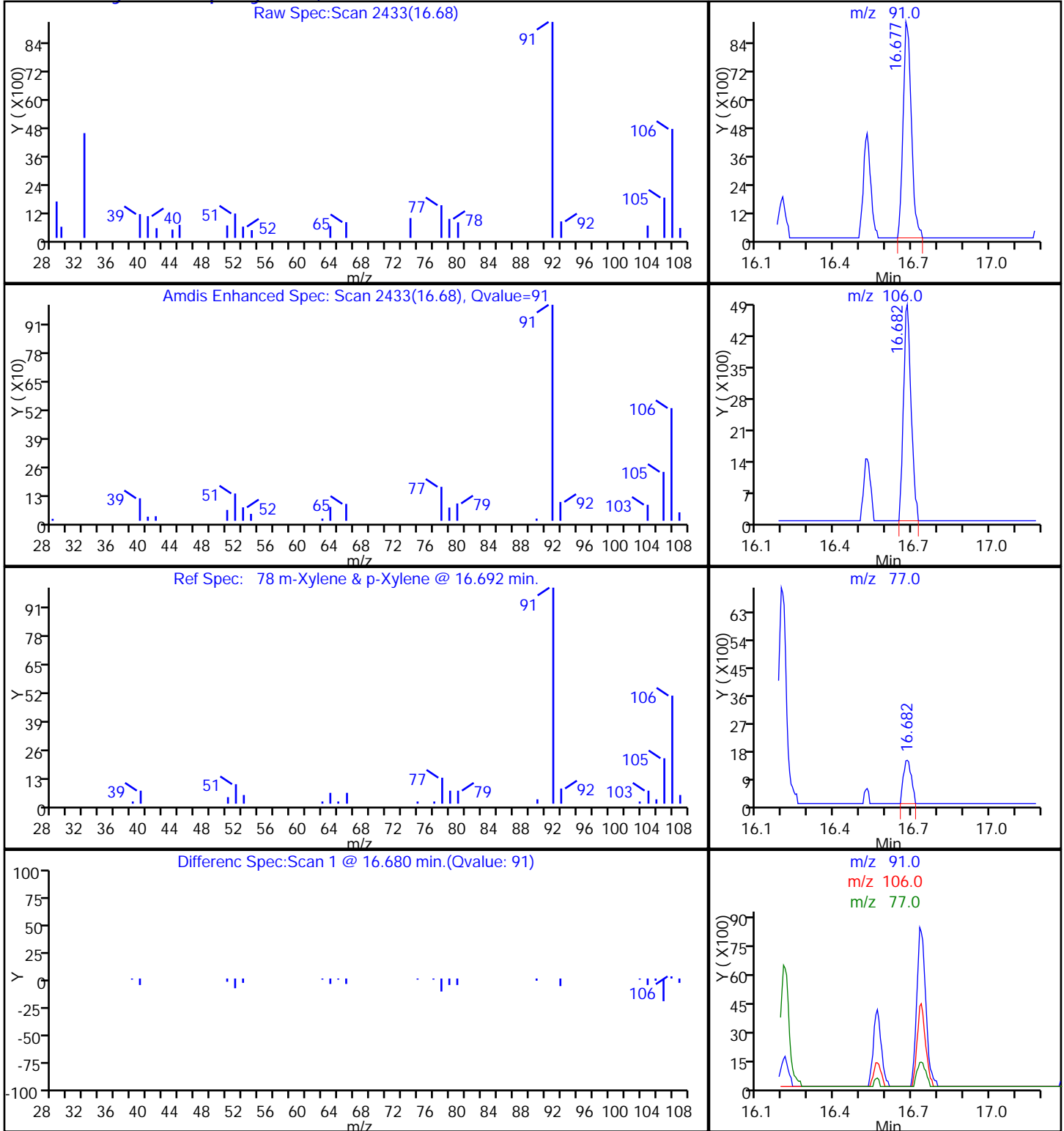
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

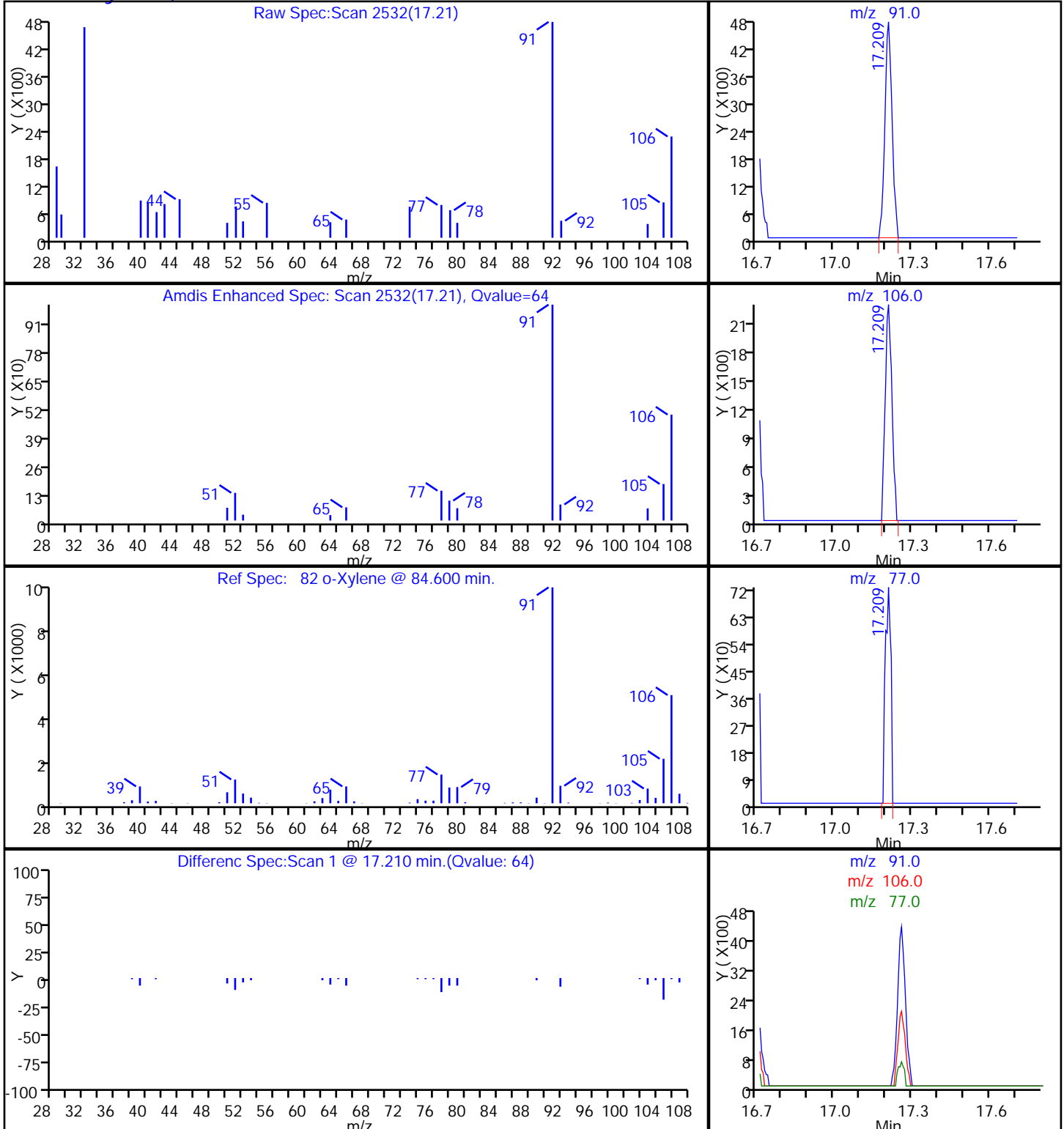
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

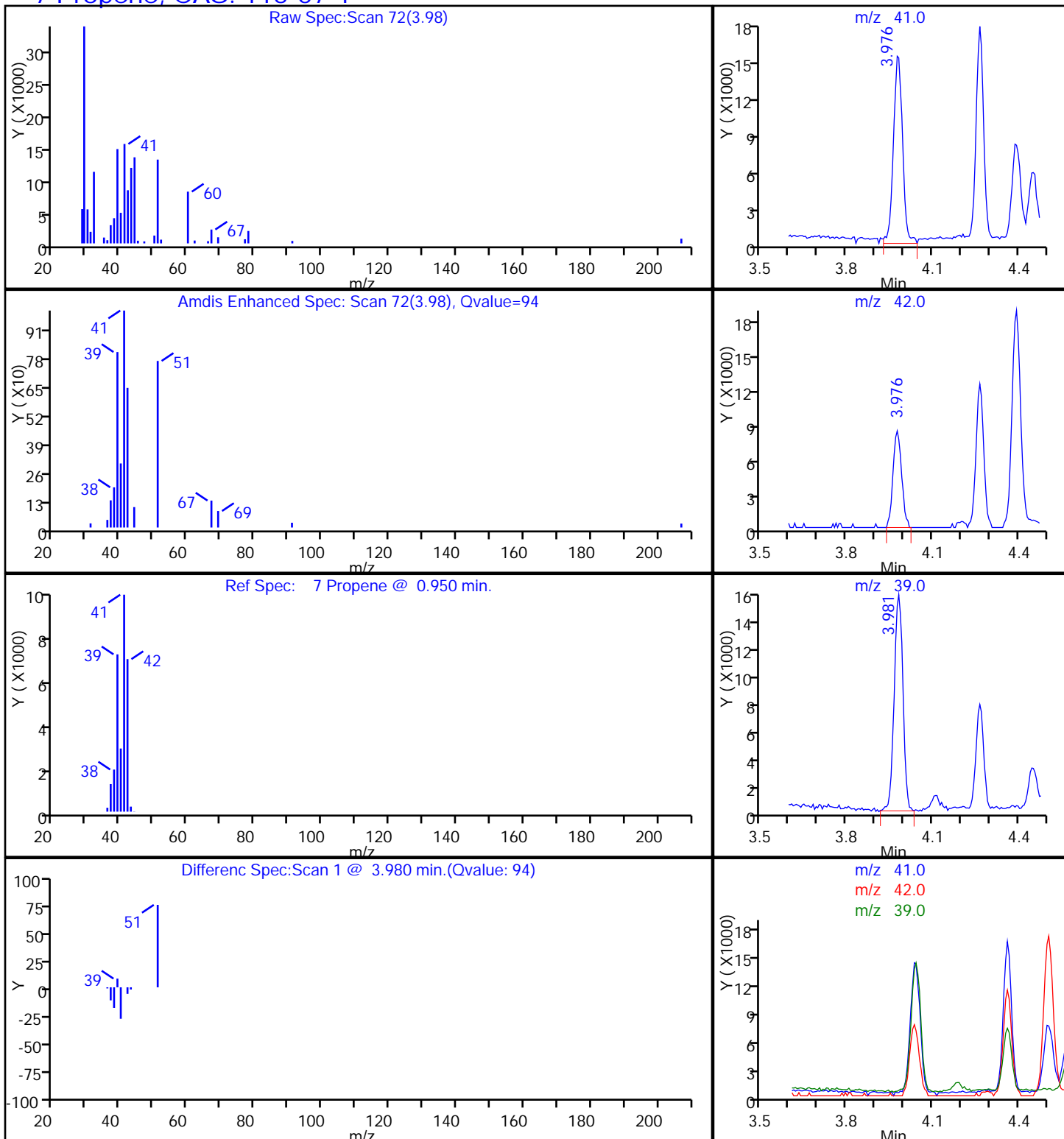
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

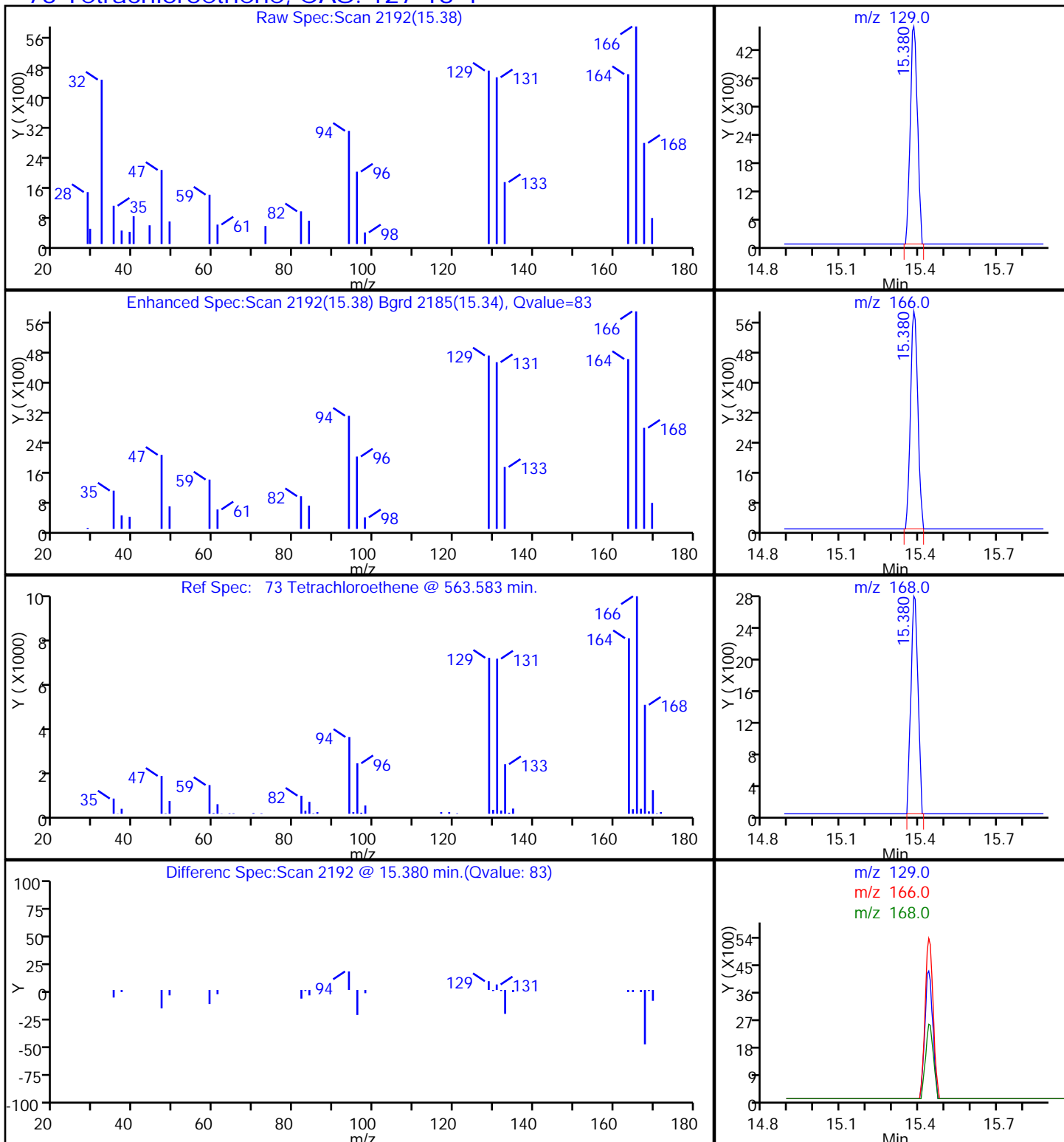
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

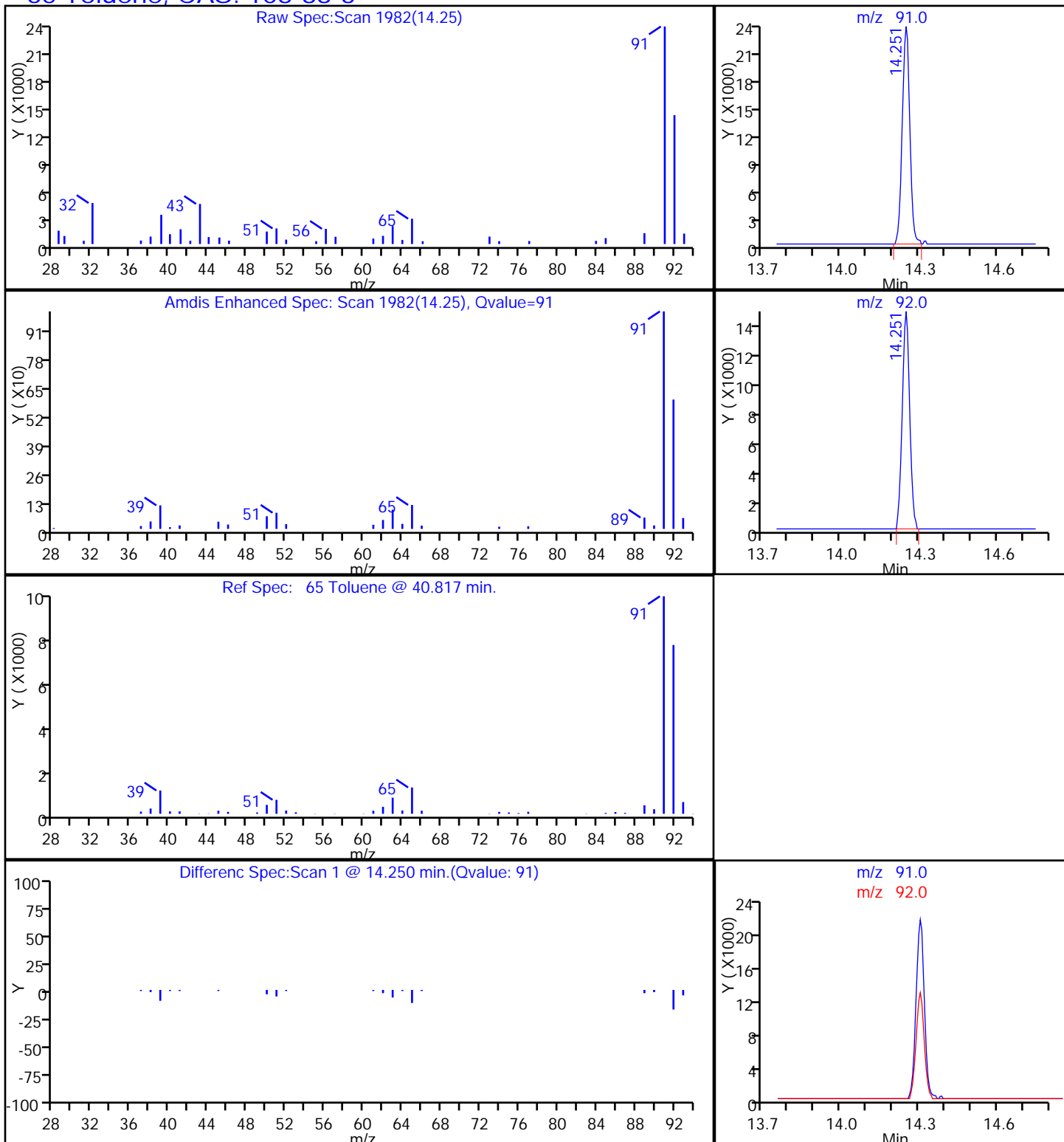
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JC19P114.D

Injection Date: 20-Mar-2014 05:26:30

Instrument ID: MJ

Lims ID: 140-1065-A-4

Lab Sample ID: 140-1065-4

Client ID: SAMPLE 5- ROOM #11

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

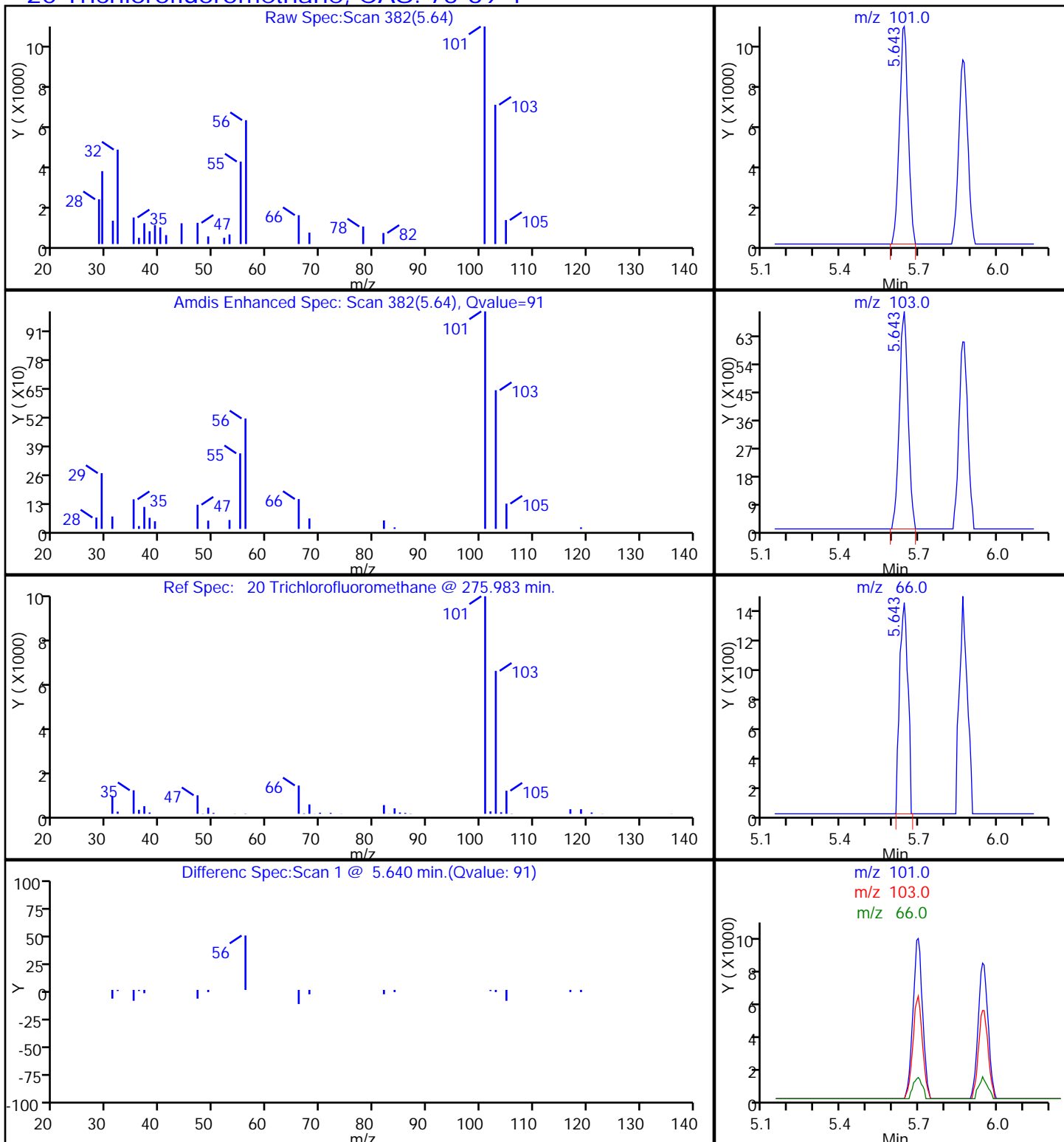
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Chlorodifluoromethane	++++ 0.3753	0.4978 0.3659	0.5073 0.4196	0.4028 0.3604	0.3733	Ave	0.4128				14.0		30.0				
Propene	++++ 1.1609	++++ 1.0928	1.5479 1.2091	1.3069 1.0396	1.2285	Ave	1.2265				14.0		30.0				
Dichlorodifluoromethane	4.0543 3.8605	4.1829 3.7019	4.4748 4.1665	3.9221 3.4793	3.8163	Ave	3.9621				7.4		30.0				
Chloromethane	0.4990 0.4300	0.5059 0.4083	0.5376 0.4477	0.4430 0.3527	0.4267	Ave	0.4501				13.0		30.0				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.0829 2.9363	2.9387 2.9036	3.2994 3.3134	2.7218 2.8449	2.8704	Ave	2.9902				6.8		30.0				
Acetaldehyde	++++ 0.3869	++++ 0.3394	0.5021 0.4038	0.3733 0.3144	0.4428	Ave	0.3947				16.0		40.0				
Vinyl chloride	1.5245 1.4510	1.5243 1.3825	1.7385 1.5461	1.4871 1.2615	1.4309	Ave	1.4829				8.8		30.0				
1,3-Butadiene	1.0318 0.9981	1.1281 0.9554	1.1902 1.0690	1.0309 0.8729	0.9968	Ave	1.0304				9.0		30.0				
Butane	2.4463 1.9819	2.4604 1.8724	2.4977 2.0463	2.0911 1.6158	1.9815	Ave	2.1104				14.0		30.0				
Bromomethane	1.6099 1.4285	1.6087 1.3888	1.7128 1.5877	1.4631 1.3671	1.4070	Ave	1.5082				8.2		30.0				
Chloroethane	0.7289 0.6460	0.7041 0.6345	0.7842 0.7144	0.6734 0.6077	0.6467	Ave	0.6822				8.1		30.0				
Ethanol	++++ 0.3202	++++ 0.3084	0.3784 0.3103	0.3380 0.2624	0.3301	Ave	0.3211				11.0		40.0				
Vinyl bromide	1.2510 1.2325	1.2858 1.2290	1.4459 1.4152	1.2277 1.2497	1.2076	Ave	1.2827				6.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylbutane	++++	1.9901	2.0881	1.6610	1.5999	Ave		1.6989			13.0		30.0				
	1.5962	1.5455	1.7015	1.4088													
Trichlorofluoromethane	3.4010	3.4970	3.9742	3.3853	3.3401	Ave		3.4807			6.7		30.0				
	3.3842	3.3373	3.7583	3.2490													
Acrolein	++++	0.4128	0.3655	0.2328	0.3081	Ave		0.3266			18.0		30.0				
	0.3021	0.2855	0.3935	0.3121													
Acetonitrile	++++	0.4098	0.4320	0.3296	0.3366	Ave		0.3607			12.0		30.0				
	0.3368	0.3061	0.3943	0.3403													
Acetone	++++	++++	++++	0.7210	0.8316	Ave		0.5686			38.0	*	30.0				
	0.5780	0.3424	0.3699	++++													
Isopropyl alcohol	++++	++++	1.7112	1.5277	1.4569	Ave		1.5014			7.8		30.0				
	1.4403	1.4471	1.5786	1.3482													
Pentane	++++	0.1929	0.2420	0.2107	0.2100	Ave		0.2152			7.7		30.0				
	0.2110	0.2103	0.2383	0.2065													
Ethyl ether	++++	1.2193	1.2370	0.8503	1.0780	Ave		1.0466			13.0		30.0				
	1.0219	0.9461	1.0985	0.9217													
1,1-Dichloroethene	1.2472	1.1312	1.2574	1.0484	1.0359	Ave		1.1230			7.9		30.0				
	1.0504	1.0692	1.1985	1.0684													
tert-Butyl alcohol	++++	2.1474	2.1170	1.9306	1.7618	Ave		1.8495			12.0		30.0				
	1.5527	1.6753	1.9312	1.6797													
Acrylonitrile	0.6837	0.6036	0.6491	0.4430	0.5680	Ave		0.5945			13.0		30.0				
	0.5684	0.5529	0.6783	0.6032													
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110	2.4189	2.7256	2.3179	2.2929	Ave		2.4119			6.2		30.0				
	2.3296	2.3382	2.5850	2.2877													
Methylene Chloride	++++	++++	1.3860	1.0569	1.0231	Ave		1.0701			14.0		30.0				
	1.0284	1.0127	1.0525	0.9311													
3-Chloropropene	++++	1.4141	1.4133	1.0400	1.0351	Ave		1.1131			17.0		30.0				
	1.0457	1.0202	1.0428	0.8935													
Carbon disulfide	3.8327	3.8048	4.3304	3.6252	3.5747	Ave		3.7629			7.3		30.0				
	3.6559	3.6157	4.0136	3.4128													
trans-1,2-Dichloroethene	1.5956	1.4088	1.5141	1.2666	1.2555	Ave		1.3526			9.5		30.0				
	1.2849	1.2971	1.3354	1.2156													
2-Methylpentane	3.5143	3.3896	3.6215	2.9875	2.9621	Ave		3.0866			12.0		40.0				
	2.9748	2.8931	3.0116	2.4248													
Methyl tert-butyl ether	++++	2.2440	2.3259	1.7335	2.0623	Ave		2.0415			9.8		30.0				
	2.0306	1.9367	2.1576	1.8416													
1,1-Dichloroethane	2.2983	2.2481	2.5871	1.8978	2.0982	Ave		2.1108			11.0		30.0				
	2.0618	2.0212	1.9936	1.7914													
Vinyl acetate	++++	2.0207	2.0413	1.4173	1.8240	Ave		1.8493			12.0		30.0				
	1.8387	1.7150	2.1043	1.8329													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Butanone (MEK)	++++ 0.3964	++++ 0.3598	0.4111 0.3829	0.3437 0.3472	0.4093	Ave		0.3786			7.5		30.0				
C6 Range	++++ 11.457	++++ 10.950	14.161 11.507	11.950 10.055	11.668	Ave		11.678			11.0		30.0				
Hexane	1.2499 1.0288	1.1722 0.9966	1.2816 1.0234	1.0019 0.9009	1.0232	Ave		1.0754			12.0		30.0				
cis-1,2-Dichloroethene	++++ 1.1421	1.2484 1.1159	1.4102 1.1085	1.0275 1.0343	1.1509	Ave		1.1547			11.0		30.0				
Ethyl acetate	++++ 1.6675	1.8616 1.5787	1.8823 1.7022	1.3606 1.4909	1.6483	Ave		1.6490			11.0		30.0				
Chloroform	2.7060 2.2129	2.5161 2.1695	2.8522 2.1655	2.0807 1.9884	2.2854	Ave		2.3307			13.0		30.0				
Tetrahydrofuran	++++ 0.8907	1.1007 0.8382	1.1060 0.9416	0.7993 0.8406	0.8948	Ave		0.9265			13.0		30.0				
1,1,1-Trichloroethane	2.5690 2.4044	2.5894 2.3199	2.9524 2.2395	2.2082 2.1153	2.4654	Ave		2.4293			10.0		30.0				
1,2-Dichloroethane	0.3524 0.2986	0.3242 0.3013	0.3469 0.2973	0.2680 0.3047	0.2994	Ave		0.3103			8.5		30.0				
1-Butanol	++++ 0.0758	++++ 0.0850	++++ 0.1016	0.0902 0.0993	0.0728	Ave		0.0874			14.0		30.0				
Benzene	++++ 0.6491	0.7894 0.6742	0.7885 0.6678	0.5956 0.6732	0.6526	Ave		0.6863			9.9		30.0				
Cyclohexane	0.1355 0.1326	0.1403 0.1351	0.1546 0.1320	0.1280 0.1295	0.1311	Ave		0.1354			6.0		30.0				
Carbon tetrachloride	0.5567 0.5334	0.5322 0.5682	0.6406 0.5720	0.5209 0.6134	0.5648	Ave		0.5669			6.9		30.0				
2,3-Dimethylpentane	0.1746 0.1531	0.1672 0.1548	0.1903 0.1594	0.1424 0.1580	0.1574	Ave		0.1619			8.6		40.0				
Thiophene	++++ 0.4079	0.4449 0.4137	0.5038 0.4130	0.3692 0.4248	0.4135	Ave		0.4238			9.1		40.0				
2,2,4-Trimethylpentane	++++ 1.1013	1.2866 1.1120	1.4233 1.1598	1.0650 1.0917	1.1349	Ave		1.1718			10.0		30.0				
Heptane	++++ 0.2302	0.2523 0.2339	0.2876 0.2500	0.2069 0.2495	0.2312	Ave		0.2427			9.7		30.0				
1,2-Dichloropropane	0.2713 0.2248	0.2476 0.2244	0.2446 0.2162	0.1894 0.2424	0.2270	Ave		0.2320			9.9		30.0				
Trichloroethene	0.3681 0.3070	0.3361 0.3103	0.3882 0.3376	0.2860 0.3565	0.3066	Ave		0.3329			10.0		30.0				
Dibromomethane	0.3519 0.2871	0.3135 0.2904	0.3463 0.3019	0.2521 0.3144	0.2898	Ave		0.3053			10.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Bromodichloromethane	0.5415 0.4610	0.4794 0.4772	0.5203 0.5090	0.3917 0.5236	0.4559	Ave	0.4844				9.4		30.0				
1,4-Dioxane	0.0864 0.0761	0.0789 0.0837	0.0861 0.0932	0.0734 0.0944	0.0759	Ave	0.0831				9.1		30.0				
Methyl methacrylate	++++ 0.2033	0.2108 0.2121	0.2172 0.2415	0.1522 0.2315	0.1963	Ave	0.2081				13.0		30.0				
Methylcyclohexane	0.5084 0.4369	0.4885 0.4352	0.5437 0.4447	0.4036 0.4462	0.4506	Ave	0.4620				9.4		40.0				
4-Methyl-2-pentanone (MIBK)	0.4768 0.4049	0.4050 0.4208	0.3722 0.5038	0.3199 0.4786	0.3915	Ave	0.4193				14.0		30.0				
cis-1,3-Dichloropropene	0.3912 0.3148	0.3360 0.3226	0.3321 0.3286	0.2584 0.3651	0.3130	Ave	0.3291				11.0		30.0				
trans-1,3-Dichloropropene	++++ 0.3239	0.3387 0.3309	0.3498 0.3384	0.2652 0.3768	0.3281	Ave	0.3315				9.5		30.0				
Toluene	++++ 0.7167	0.8202 0.7308	0.8244 0.7195	0.6019 0.7841	0.7388	Ave	0.7420				9.6		30.0				
Toluene Range	++++ 1.7355	1.8850 1.7414	2.3214 1.7164	1.4393 1.8607	1.7681	Ave	1.8085				14.0		30.0				
1,1,2-Trichloroethane	++++ 0.2300	0.2512 0.2324	0.2564 0.2257	0.1979 0.2522	0.2355	Ave	0.2352				8.1		30.0				
2-Methylthiophene	++++ 0.6589	0.7303 0.6637	0.7306 0.6296	0.5576 0.7008	0.6632	Ave	0.6668				8.5		40.0				
3-Methylthiophene	++++ 0.6573	0.7094 0.6674	0.7385 0.6367	0.5566 0.7128	0.6732	Ave	0.6690				8.4		40.0				
2-Hexanone	0.2893 0.2225	0.2360 0.2440	0.2090 0.2907	0.1958 0.2785	0.2215	Ave	0.2430				15.0		30.0				
C8 Range	++++ 2.5227	++++ 2.5151	4.1853 2.4822	2.7311 2.3967	2.7836	Ave	2.8024				22.0		30.0				
Octane	++++ 0.2554	0.2894 0.2698	0.3001 0.2764	0.2400 0.2819	0.2649	Ave	0.2723				7.0		30.0				
Dibromochloromethane	0.5683 0.4999	0.4537 0.5452	0.4884 0.5757	0.4110 0.6423	0.4872	Ave	0.5191				14.0		30.0				
1,2-Dibromoethane (EDB)	++++ 0.3904	0.4062 0.3997	0.4255 0.4060	0.3250 0.4746	0.3969	Ave	0.4030				10.0		30.0				
Tetrachloroethene	0.4307 0.3126	0.3606 0.3248	0.3860 0.3276	0.2918 0.3623	0.3149	Ave	0.3457				13.0		30.0				
Chlorobenzene	0.7600 0.5843	0.6366 0.6134	0.6670 0.6220	0.5083 0.7170	0.5962	Ave	0.6339				12.0		30.0				
2,3-Dimethylheptane	++++ 0.7774	1.0016 0.7981	0.9243 0.7543	0.8155 0.6301	0.8355	Ave	0.8171				14.0		40.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Ethylbenzene	++++ 0.7809	0.8590 0.7918	0.9295 0.8662	0.6485 0.8867	0.7945	Ave	0.8196				11.0		30.0				
2-Ethylthiophene	++++ 0.6211	0.6509 0.6348	0.7104 0.6760	0.5063 0.7092	0.6300	Ave	0.6423				10.0		40.0				
m-Xylene & p-Xylene	0.8724 0.6048	0.6478 0.6174	0.7195 0.6892	0.5053 0.6848	0.6113	Ave	0.6614				15.0		30.0				
Nonane	0.5849 0.4962	0.5269 0.5198	0.5003 0.5325	0.4350 0.5270	0.5092	Ave	0.5146				7.7		30.0				
Bromoform	0.3869 0.3941	0.3029 0.4477	0.3351 0.5176	0.2786 0.6525	0.3753	Ave	0.4101				28.0		30.0				
Styrene	0.4586 0.4545	0.3795 0.4737	0.4178 0.5566	0.3161 0.5951	0.4359	Ave	0.4542				19.0		30.0				
o-Xylene	++++ 0.6220	0.6989 0.6334	0.7758 0.7157	0.5518 0.7183	0.6477	Ave	0.6705				10.0		30.0				
1,1,2,2-Tetrachloroethane	0.6366 0.5114	0.4928 0.5428	0.5223 0.6379	0.4404 0.6334	0.5127	Ave	0.5478				13.0		30.0				
1,2,3-Trichloropropane	0.1442 0.1219	0.1181 0.1290	0.1305 0.1531	0.1029 0.1606	0.1220	Ave	0.1314				14.0		30.0				
Isopropylbenzene	++++ 0.8840	0.9896 0.9244	1.0486 1.0733	0.7621 1.0613	0.8995	Ave	0.9553				11.0		30.0				
Propylbenzene	0.2681 0.2341	0.2110 0.2500	0.2443 0.3134	0.1854 0.3341	0.2269	Ave	0.2519				19.0		30.0				
2-Chlorotoluene	0.3095 0.2380	0.2477 0.2491	0.2685 0.2880	0.2030 0.3199	0.2426	Ave	0.2629				14.0		30.0				
4-Ethyltoluene	++++ 0.8311	0.8416 0.8990	0.8896 1.0959	0.6810 1.0745	0.8145	Ave	0.8909				15.0		30.0				
1,3,5-Trimethylbenzene	0.4938 0.3981	0.4061 0.4350	0.4303 0.5543	0.3429 0.5787	0.3917	Ave	0.4479				18.0		30.0				
Alpha Methyl Styrene	++++ 0.3207	++++ 0.3696	0.2496 0.4870	0.2079 ++++	0.2910	Ave	0.3209				31.0	*	30.0				
Decane	0.6374 0.5292	0.5113 0.5642	0.5207 0.6272	0.4260 0.5826	0.5375	Ave	0.5485				12.0		30.0				
tert-Butylbenzene	0.9408 0.7767	0.8087 0.8608	0.8237 1.1089	0.6758 1.1051	0.7724	Ave	0.8748				17.0		30.0				
1,2,4-Trimethylbenzene	0.8860 0.7036	0.6832 0.7761	0.7207 0.9851	0.5785 0.9682	0.6901	Ave	0.7768				18.0		30.0				
sec-Butylbenzene	1.2822 1.0386	1.0421 1.1381	1.0626 1.4231	0.8765 1.3609	1.0370	Ave	1.1401				16.0		30.0				
1,3-Dichlorobenzene	0.6165 0.4316	0.4587 0.4814	0.4606 0.6381	0.3506 0.7371	0.4206	Ave	0.5106				24.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Benzyl chloride	++++ 0.5194	0.5259 0.5969	0.5293 0.7868	0.4001 0.8036	0.4796	Ave	0.5802				25.0		30.0				
1,4-Dichlorobenzene	0.5812 0.3946	0.4226 0.4405	0.4275 0.6043	0.3295 0.6990	0.3777	Ave	0.4752				26.0		30.0				
4-Isopropyltoluene	1.0099 0.8431	0.8059 0.9293	0.8117 1.1712	0.6811 1.1487	0.8256	Ave	0.9141				18.0		30.0				
1,2,3-Trimethylbenzene	++++ 0.5818	0.6038 0.6245	0.6126 0.7801	0.5165 0.7656	0.5791	Ave	0.6330				15.0		40.0				
Butylcyclohexane	0.8668 0.6633	0.7527 0.6998	0.6856 0.7692	0.5955 0.7699	0.6994	Ave	0.7225				11.0		40.0				
1,2-Dichlorobenzene	0.5645 0.4286	0.4298 0.4797	0.4422 0.6537	0.3508 0.7309	0.4147	Ave	0.4994				25.0		30.0				
Indane	++++ 0.6382	0.6553 0.7031	0.6522 0.9291	0.5340 0.9433	0.6228	Ave	0.7098				21.0		40.0				
Butylbenzene	0.9460 0.7809	0.7473 0.8777	0.7741 1.1149	0.6052 1.0417	0.7458	Ave	0.8482				19.0		30.0				
Indene	0.7207 0.5892	0.5164 0.6812	0.5351 0.9374	0.4341 ++++	0.5474	Ave	0.6202				25.0		40.0				
Undecane	++++ 0.5055	0.5604 0.5578	0.5305 0.6932	0.4489 0.6332	0.4907	Ave	0.5525				14.0		30.0				
1,2-Dimethyl-4-Ethylbenzene	0.9638 0.7782	0.7650 0.8711	0.7308 1.1243	0.6104 1.1208	0.7493	Ave	0.8571				21.0		40.0				
1,2,4,5-Tetramethylbenzene	++++ 0.8069	0.8466 0.9215	0.7831 1.2072	0.6737 ++++	0.7884	Ave	0.8611				20.0		40.0				
1,2,3,5-Tetramethylbenzene	0.6914 0.4976	0.5735 0.5663	0.5216 0.7214	0.4291 ++++	0.4957	Ave	0.5621				18.0		40.0				
1,2,3,4-Tetramethylbenzene	++++ 0.6318	0.7601 0.7192	0.6390 0.9406	0.5613 ++++	0.6223	Ave	0.6963				18.0		40.0				
Dodecane	++++ 0.5222	0.6219 0.5549	0.5826 0.6951	0.4960 0.5857	0.5184	Ave	0.5721				11.0		30.0				
1,2,4-Trichlorobenzene	++++ 0.1978	0.2393 0.2353	0.1875 0.3503	0.1589 ++++	0.1860	Ave	0.2222				28.0		30.0				
Naphthalene	++++ 0.5440	0.6054 0.6234	0.5204 0.8528	0.4570 0.9116	0.5206	Ave	0.6294				26.0		30.0				
Benzo(b)thiophene	++++ 0.3584	0.4411 0.4226	0.3316 0.5886	0.2931 0.6439	0.3327	Ave	0.4265				30.0		40.0				
Hexachlorobutadiene	++++ 0.3710	0.4779 0.4186	0.4112 0.5814	0.3414 0.6501	0.3803	Ave	0.4540				24.0		30.0				
1,2,3-Trichlorobenzene	++++ 0.2455	0.2949 0.2721	0.2520 0.3767	0.2213 0.3886	0.2456	Ave	0.2871				22.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylnaphthalene	+++++	0.0753	0.0599	0.0578	0.0666	Ave		0.0669			31.0		40.0				
	0.0679	0.0753	0.1029	0.0298													
1-Methylnaphthalene	+++++	0.0816	0.0695	0.0679	0.0735	Ave		0.0690			31.0		40.0				
	0.0730	0.0750	0.0927	0.0189													
4-Bromofluorobenzene (Surr)	0.6600	0.6934	0.7134	0.6897	0.7189	Ave		0.7075			3.1		30.0				
	0.7176	0.7283	0.7225	0.7235													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Chlorodifluoromethane	CBM	Ave	++++ 65895	3504 127336	7250 267278	13846 505684	32729	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	++++ 203864	++++ 380299	22123 770175	44922 1458925	107699	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14707 677907	29444 1288306	63957 2653935	134818 4882515	334566	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	1810 75510	3561 142083	7684 285173	15228 494916	37407	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	CBM	Ave	11183 515628	20686 1010496	47157 2110535	93560 3992171	251641	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	++++ 339724	++++ 590590	35881 1285979	64164 2205919	194092	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl chloride	CBM	Ave	5530 254791	10730 481131	24848 984783	51116 1770210	125449	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3743 175277	7941 332507	17011 680934	35435 1224939	87385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	8874 348021	17319 651614	35698 1303426	71879 2267439	173714	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	5840 250854	11324 483336	24480 1011303	50293 1918491	123346	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2644 113435	4956 220811	11208 455037	23148 852776	56692	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	++++ 281128	++++ 536616	27045 988374	58098 1841235	144711	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	4538 216421	9051 427699	20665 901463	42200 1753642	105872	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	++++ 280290	14009 537867	29844 1083786	57096 1976924	140258	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Trichlorofluoromethane	CBM	Ave	12337 594264	24616 1161422	56802 2393900	116368 4559353	292818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	++++ 53042	2906 99357	5224 250642	8002 437980	27013	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 59141	2885 106520	6174 251140	11328 477609	29505	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 101503	++++ 119169	++++ 235590	24784 ++++	72907	++++ 2.00	++++ 4.00	++++ 8.00	0.400 ++++	1.00
Isopropyl alcohol	CBM	Ave	++++ 252925	++++ 503623	24457 1005537	52512 1891993	127722	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Pentane	CBM	Ave	++++ 37045	1358 73196	3459 151771	7244 289822	18413	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	++++ 179455	8583 329259	17680 699710	29228 1293462	94508	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	++++ 184446	7963 372110	17971 763429	36039 1499326	90818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	++++ 272663	15116 583041	30258 1230118	66363 2357157	154458	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2480 99812	4249 192415	9278 432058	15228 846522	49792	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	8746 409082	17027 813723	38956 1646524	79676 3210350	201012	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 180581	++++ 352418	19809 670417	36329 1306630	89695	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	++++ 183622	9954 355060	20200 664240	35748 1253863	90749	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	13903 641989	26783 1258326	61892 2556516	124614 4789123	313388	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	5788 225627	9917 451426	21641 850575	43537 1705804	110071	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	12748 522389	23860 1006835	51760 1918287	102693 3402713	259682	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	++++ 356577	15796 673998	33243 1374295	59586 2584260	180801	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	8337 362051	15825 703411	36976 1269839	65235 2513809	183945	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	++++ 322885	14224 596834	29176 1340341	48718 2572051	159904	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	++++ 69610	++++ 125222	5876 243895	11813 487204	35887	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
C6 Range	CBM	Ave	++++ 2011864	++++ 3810714	202396 7329744	410756 14110311	1022928	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Hexane	CBM	Ave	4534 180662	8251 346825	18317 651848	34438 1264226	89704	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	++++ 200551	8788 388357	20156 706076	35319 1451411	100896	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	++++ 292814	13104 549427	26903 1084225	46769 2092150	144504	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9816 388598	17711 755016	40765 1379316	71523 2790275	200359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	++++ 156408	7748 291715	15807 599765	27476 1179659	78446	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	9319 422225	18227 807351	42198 1426505	75903 2968435	216140	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	5688 248475	11010 473508	23652 840072	43695 1727411	125298	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	++++ 63073	++++ 133536	++++ 287181	++++ 562689	30453	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	++++ 540059	26808 1059675	53761 1886757	97096 3816101	273136	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2187 110363	4766 212371	10543 372992	20873 734107	54874	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	8987 443845	18074 893077	43678 1616119	84912 3477511	236385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2819 127368	5679 243353	12974 450381	23214 895905	65875	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	++++ 339429	15107 650293	34350 1166754	60186 2407949	173039	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 916367	43691 1747868	97042 3277019	173617 6188593	474988	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	++++ 191563	8567 367648	19608 706282	33732 1414497	96771	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	4380 187039	8407 352739	16678 610860	30869 1374081	95014	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5942 255418	11412 487687	26470 953846	46631 2020928	128335	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5681 238917	10647 456395	23612 853084	41095 1782109	121268	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	8741 383587	16281 749991	35477 1438067	63861 2968189	190788	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1394 63279	2681 131505	5872 263409	11964 535040	31775	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	++++ 169117	7159 333332	14809 682355	24813 1312475	82170	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methylcyclohexane	DFB	Ave	8207 363492	16589 683968	37072 1256319	65787 2529310	188580	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	7697 336876	13754 661355	25379 1423315	52154 2713031	163854	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6314 261947	11409 507092	22640 928432	42126 2069482	131004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	++++ 234824	9630 446194	20295 879585	35040 1963516	117538	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	++++ 519669	23320 985546	47832 1869974	79532 4086312	264651	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	CBZ	Ave	++++ 1258419	53595 2348373	134690 4461089	190190 9697293	633377	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 166783	7143 313466	14877 586633	26153 1314579	84373	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	++++ 477759	20765 895031	42390 1636492	73689 3652163	237579	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	++++ 476584	20169 900038	42847 1654764	73553 3714685	241139	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	3616 161365	6711 329061	12124 755508	25873 1451418	79350	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	CBZ	Ave	++++ 1829147	++++ 3391784	242838 6451566	360891 12490633	997149	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	++++ 185219	8228 363887	17415 718344	31719 1469379	94899	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	7103 362439	12900 735197	28336 1496245	54305 3347546	174527	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	++++ 283094	11550 539062	24689 1055365	42940 2473337	142171	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5383 226667	10252 437989	22395 851426	38555 1888055	112818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	9499 423684	18101 827157	38702 1616541	67168 3736744	213586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	++++ 563663	28479 1076318	53631 1960561	107761 3283977	299289	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	++++ 566249	24423 1067867	53929 2251254	85699 4621160	284603	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	++++ 450374	18507 856076	41218 1757131	66902 3695934	225682	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	21806 877038	36838 1665289	83497 3582524	133531 7138010	437938	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	7310 359753	14980 701033	29027 1384118	57485 2746405	182421	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Bromoform	CBZ	Ave	4835 285787	8612 603733	19445 1345387	36819 3400531	134430	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	5732 329540	10790 638753	24244 1446724	41766 3101488	156161	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	++++ 451038	19871 854151	45016 1860295	72917 3743538	232024	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	7957 370844	14012 731970	30304 1658051	58192 3301073	183648	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	1802 88416	3358 174026	7573 398010	13592 836915	43710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	++++ 640978	28138 1246662	60842 2789508	100706 5530866	322210	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	3351 169743	6000 337130	14173 814479	24502 1741082	81294	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	3868 172536	7042 335960	15581 748591	26819 1667404	86903	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	++++ 602615	23930 1212360	51618 2848420	89983 5599605	291767	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	6172 288648	11546 586616	24966 1440763	45307 3015712	140307	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	++++ 232501	++++ 498439	14480 1265706	27470 ++++	104233	++++ 2.00	++++ 4.00	0.160 8.00	0.400 ++++	1.00
Decane	CBZ	Ave	7967 383736	14539 760833	30213 1630218	56293 3036195	192549	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	11758 563181	22994 1160846	47790 2882125	89301 5759135	276681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	11073 510168	19426 1046672	41818 2560408	76446 5045591	247215	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	16025 753094	29629 1534847	61653 3698797	115821 7092519	371473	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	7705 312974	13041 649208	26725 1658482	46329 3841334	150681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	++++ 376583	14954 804987	30711 2044904	52876 4188073	171797	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	7264 286084	12015 593980	24804 1570678	43546 3642996	135286	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	12622 611347	22915 1253285	47097 3044134	90008 5986441	295742	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	++++ 421832	17168 842178	35544 2027503	68250 3990183	207460	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	10834 480940	21401 943677	39782 1999366	78686 4012634	250533	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
1,2-Dichlorobenzene	CBZ	Ave	7055 310746	12220 646950	25655 1699055	46356 3809042	148540	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indane	CBZ	Ave	++++ 462728	18631 948230	37844 2414878	70569 4915942	223109	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	11823 566214	21249 1183694	44913 2897714	79971 5428724	267179	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	9007 427230	14683 918630	31046 2436478	57358 ++++	196085	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Undecane	CBZ	Ave	++++ 366563	15935 752219	30780 1801735	59319 3299916	175793	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	12046 564256	21750 1174726	42402 2922288	80666 5841120	268427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	++++ 585097	24071 1242657	45438 3137565	89023 ++++	282429	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8641 360803	16306 763734	30265 1875036	56702 ++++	177582	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	++++ 458134	21613 969881	37074 2444837	74166 ++++	222908	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Dodecane	CBZ	Ave	++++ 378646	17682 748275	33803 1806559	65545 3052464	185701	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 143447	6805 317385	10877 910586	21000 ++++	66621	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Naphthalene	CBZ	Ave	++++ 394479	17213 840765	30193 2216472	60395 4750981	186491	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzo (b) thiophene	CBZ	Ave	++++ 259843	12541 569891	19240 1529823	38727 3355982	119182	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	++++ 268985	13588 564546	23861 1511092	45108 3388138	136244	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 178007	8385 366981	14621 979161	29244 2025463	87992	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	++++ 307709	13381 634411	21725 1671920	47754 969606	149184	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	++++ 331073	14503 631891	25220 1506542	56061 616839	164584	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	824893 1040623	985783 982151	1034797 938909	911404 942607	1030162	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D
 Lims ID: IC L1 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Mar-2014 12:40:30 ALS Bottle#: 8 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL1,,1,1,,ICAL 0.04
 Misc. Info.: J031114I,TO15,,140-0000516-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:46:11 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:46:11

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	362747	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1614195	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1249833	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	90	824893	3.73	
6 Chlorodifluoromethane	67	3.965	3.960	0.005	90	2070	0.0553	
7 Propene	41	3.975	3.973	0.002	94	6874	0.0618	
8 Dichlorodifluoromethane	85	4.035	4.029	0.006	90	14707	0.0409	
9 Chloromethane	52	4.239	4.230	0.009	40	1810	0.0443	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	84	11183	0.0412	
11 Acetaldehyde	44	4.400	4.398	0.002	99	23295	0.6509	
12 Vinyl chloride	62	4.422	4.419	0.003	30	5530	0.0411	
14 Butadiene	54	4.519	4.517	0.002	56	3743	0.0401	
13 Butane	43	4.519	4.517	0.002	83	8874	0.0464	
15 Bromomethane	94	4.868	4.871	-0.003	83	5840	0.0427	
16 Chloroethane	64	5.024	5.027	-0.003	67	2644	0.0427	
17 Ethanol	31	5.127	5.122	0.005	92	10598	0.3639	
18 Vinyl bromide	106	5.358	5.357	0.001	66	4538	0.0390	
19 2-Methylbutane	43	5.406	5.411	-0.005	73	8284	0.0538	
20 Trichlorofluoromethane	101	5.643	5.647	-0.004	75	12337	0.0391	
21 Acrolein	56	5.654	5.650	0.004	2	1845	0.0623	
22 Acetonitrile	40	5.718	5.720	-0.002	72	365	0.0112	
23 Acetone	58	5.783	5.776	0.007	81	13132	0.2547	
24 Isopropyl alcohol	45	5.869	5.858	0.011	45	8126	0.0597	
25 Pentane	72	5.880	5.884	-0.004	84	563	0.0288	
26 Ethyl ether	31	6.073	6.059	0.014	82	6445	0.0679	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	54	4524	0.0444	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	68	8253	0.0492	
29 Acrylonitrile	53	6.498	6.498	0.0	35	2480	0.0460	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	77	8746	0.0400	
31 Methylene Chloride	84	6.757	6.759	-0.002	87	6749	0.0695	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	67	6354	0.0629	
33 Carbon disulfide	76	6.940	6.942	-0.002	91	13903	0.0407	
34 trans-1,2-Dichloroethene	96	7.601	7.609	-0.008	64	5788	0.0472	
35 2-Methylpentane	43	7.633	7.631	0.002	88	12748	0.0455	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	58	9876	0.0533	
37 1,1-Dichloroethane	63	8.037	8.041	-0.004	29	8337	0.0436	
38 Vinyl acetate	43	8.145	8.141	0.004	82	8474	0.0505	
39 2-Butanone (MEK)	72	8.607	8.601	0.006	84	2486	0.0724	
40 Hexane	56	8.645	8.642	0.003	81	4534	0.0465	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	52	5401	0.0516	
42 Ethyl acetate	43	9.237	9.229	0.008	82	8452	0.0565	
43 Chloroform	83	9.398	9.403	-0.005	14	9816	0.0464	
44 Tetrahydrofuran	42	9.839	9.816	0.023	86	4727	0.0563	
45 1,1,1-Trichloroethane	97	10.447	10.450	-0.003	62	9319	0.0423	
46 1,2-Dichloroethane	62	10.549	10.547	0.002	46	5688	0.0454	
47 n-Butanol	31	10.974	10.958	0.016	70	3817	0.1082	
48 Benzene	78	11.033	11.033	0.0	68	14955	0.0540	
49 Cyclohexane	69	11.039	11.040	-0.001	65	2187	0.0400	
50 Carbon tetrachloride	117	11.060	11.059	0.001	85	8987	0.0393	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	77	2819	0.0431	
52 Thiophene	84	11.292	11.297	-0.005	47	8045	0.0470	
53 Isooctane	57	11.765	11.771	-0.006	91	23809	0.0503	
54 n-Heptane	71	12.131	12.130	0.001	80	4763	0.0486	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	55	4380	0.0468	
56 Trichloroethene	130	12.254	12.252	0.002	64	5942	0.0442	
57 Dibromomethane	93	12.330	12.332	-0.002	78	5681	0.0461	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	76	8741	0.0447	
58 1,4-Dioxane	88	12.497	12.483	0.014	40	1394	0.0416	
60 Methyl methacrylate	41	12.550	12.548	0.002	38	4643	0.0553	
61 Methylcyclohexane	83	13.013	13.013	0.0	80	8207	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.382	0.008	81	7697	0.0455	
63 cis-1,3-Dichloropropene	75	13.443	13.448	-0.005	57	6314	0.0475	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	59	5825	0.0562	
65 Toluene	91	14.261	14.262	-0.001	71	13203	0.0569	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	41	3627	0.0494	
67 2-Methylthiophene	97	14.412	14.413	-0.001	66	11278	0.0541	
68 3-Methylthiophene	97	14.611	14.612	-0.001	67	11032	0.0528	
69 2-Hexanone	58	14.702	14.694	0.008	77	3616	0.0476	
70 n-Octane	85	14.928	14.928	0.0	82	4390	0.0516	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	53	7103	0.0438	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	58	6293	0.0500	
73 Tetrachloroethene	129	15.391	15.393	-0.002	77	5383	0.0498	
75 Chlorobenzene	112	16.251	16.256	-0.005	75	9499	0.0480	
74 2,3-Dimethylheptane	43	16.262	16.260	0.002	91	14337	0.0562	
76 Ethylbenzene	91	16.536	16.536	0.0	73	14130	0.0552	
77 2-Ethylthiophene	97	16.633	16.638	-0.005	30	10632	0.0530	
78 m-Xylene & p-Xylene	91	16.698	16.696	0.002	92	21806	0.1055	
79 n-Nonane	57	17.096	17.098	-0.002	81	7310	0.0455	
81 Bromoform	173	17.150	17.149	0.001	52	4835	0.0377	
80 Styrene	104	17.155	17.157	-0.002	57	5732	0.0404	
82 o-Xylene	91	17.220	17.220	0.0	75	12031	0.0574	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	50	7957	0.0465	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	64	1802	0.0439	
85 Isopropylbenzene	105	17.795	17.793	0.002	80	15689	0.0526	
86 N-Propylbenzene	120	18.312	18.310	0.002	84	3351	0.0426	
87 2-Chlorotoluene	126	18.360	18.357	0.003	63	3868	0.0471	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	79	14155	0.0509	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	80	6172	0.0441	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	51	4051	0.0404	
91 n-Decane	57	18.791	18.793	-0.003	58	7967	0.0465	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	74	11758	0.0430	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.003	58	11073	0.0456	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	87	16025	0.0450	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	64	7705	0.0483	
96 Benzyl chloride	91	19.291	19.288	0.003	77	9484	0.0523	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	73	7264	0.0489	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	58	12622	0.0442	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	64	10198	0.0516	
100 Butylcyclohexane	83	19.458	19.460	-0.002	82	10834	0.0480	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	82	11897	0.0536	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	62	7055	0.0452	
103 n-Butylbenzene	91	19.775	19.777	-0.002	83	11823	0.0446	
104 Indene	116	19.780	19.781	-0.001	71	9007	0.0465	
105 Undecane	57	20.071	20.068	0.003	79	8831	0.0512	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.138	-0.003	67	12046	0.0450	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	80	14008	0.0521	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	69	8641	0.0492	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	72	10802	0.0496	
110 Dodecane	57	21.147	21.148	-0.001	72	10350	0.0579	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	39	4076	0.0587	
112 Naphthalene	128	21.529	21.527	0.002	87	10827	0.0551	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	65	9115	0.0684	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	66	8308	0.0586	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	55	5282	0.0589	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	79	9998	0.4781	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	83	10034	0.4652	
139 Isopropyl ether	45	8.806	8.794	0.012	85	11786	NR	
142 Tert-butyl ethyl ether	59	9.500	9.487	0.013	66	10168	NR	
140 Tert-amyl methyl ether	73	11.496	11.482	0.014	50	9463	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	71508	0.0675	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	31251	0.0553	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	84643	0.0967	
S 124 Xylenes, Total	100				0		0.1629	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L1

Lab Sample ID:

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

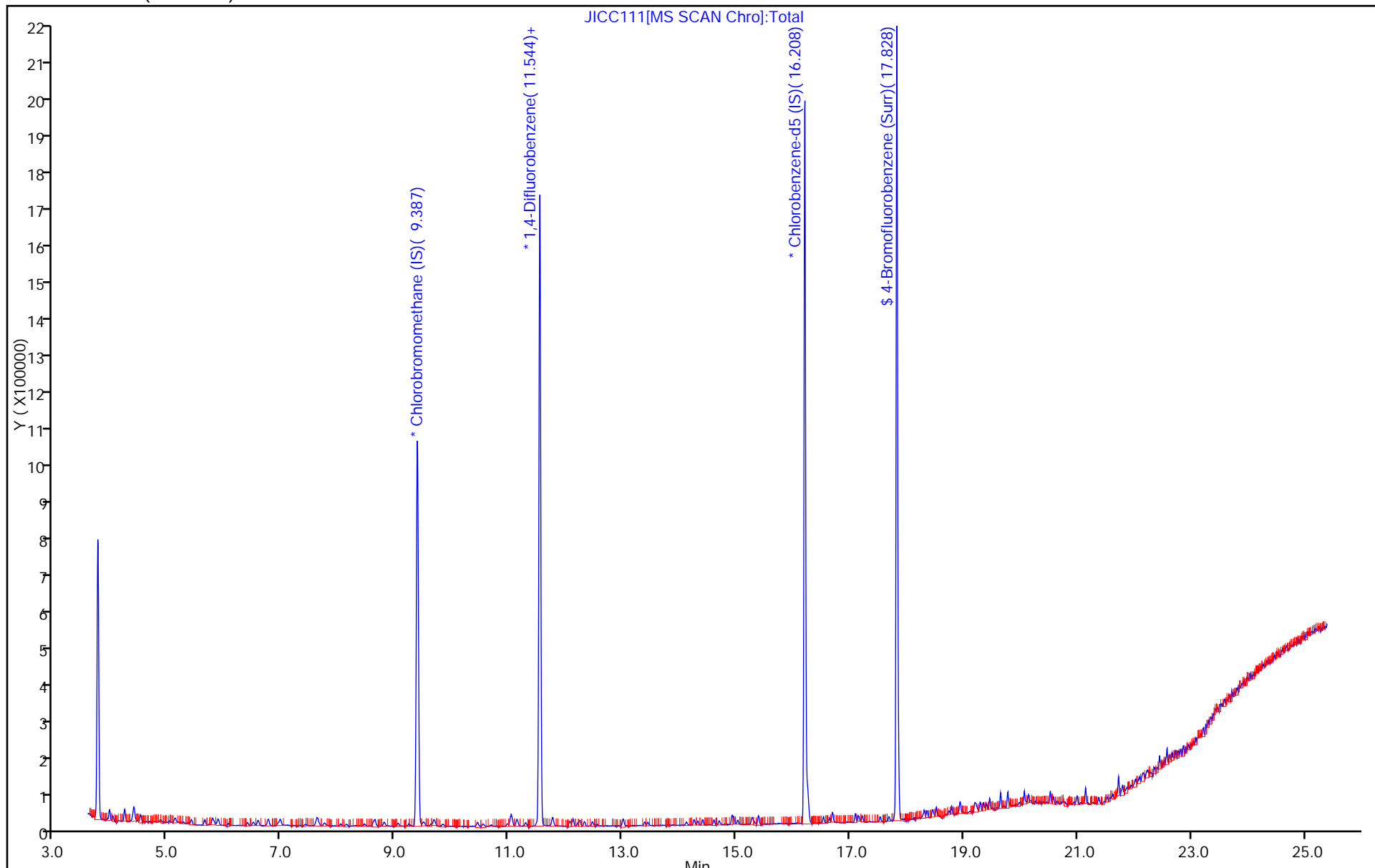
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

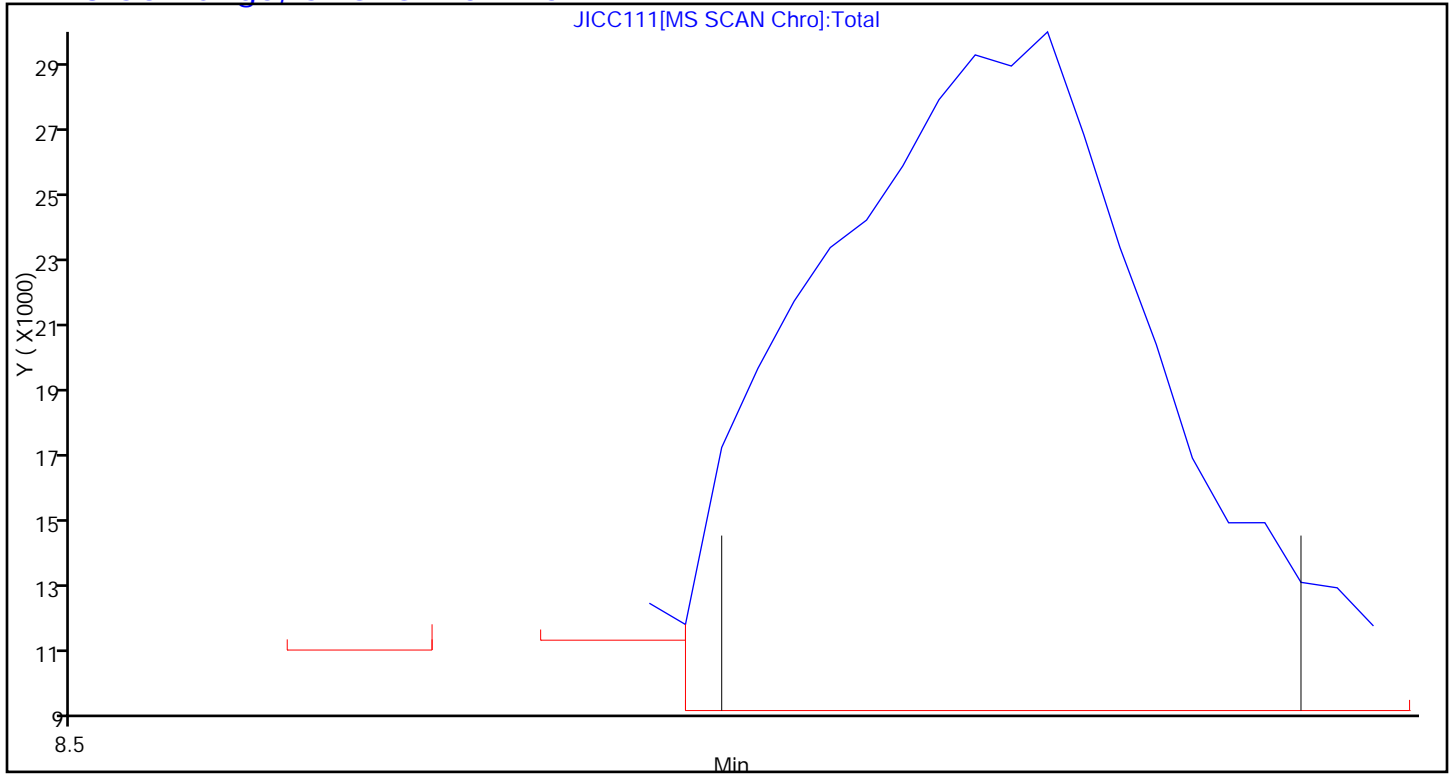
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30 Instrument ID: MJ

Lims ID: IC L1 Lab Sample ID:

Client ID:

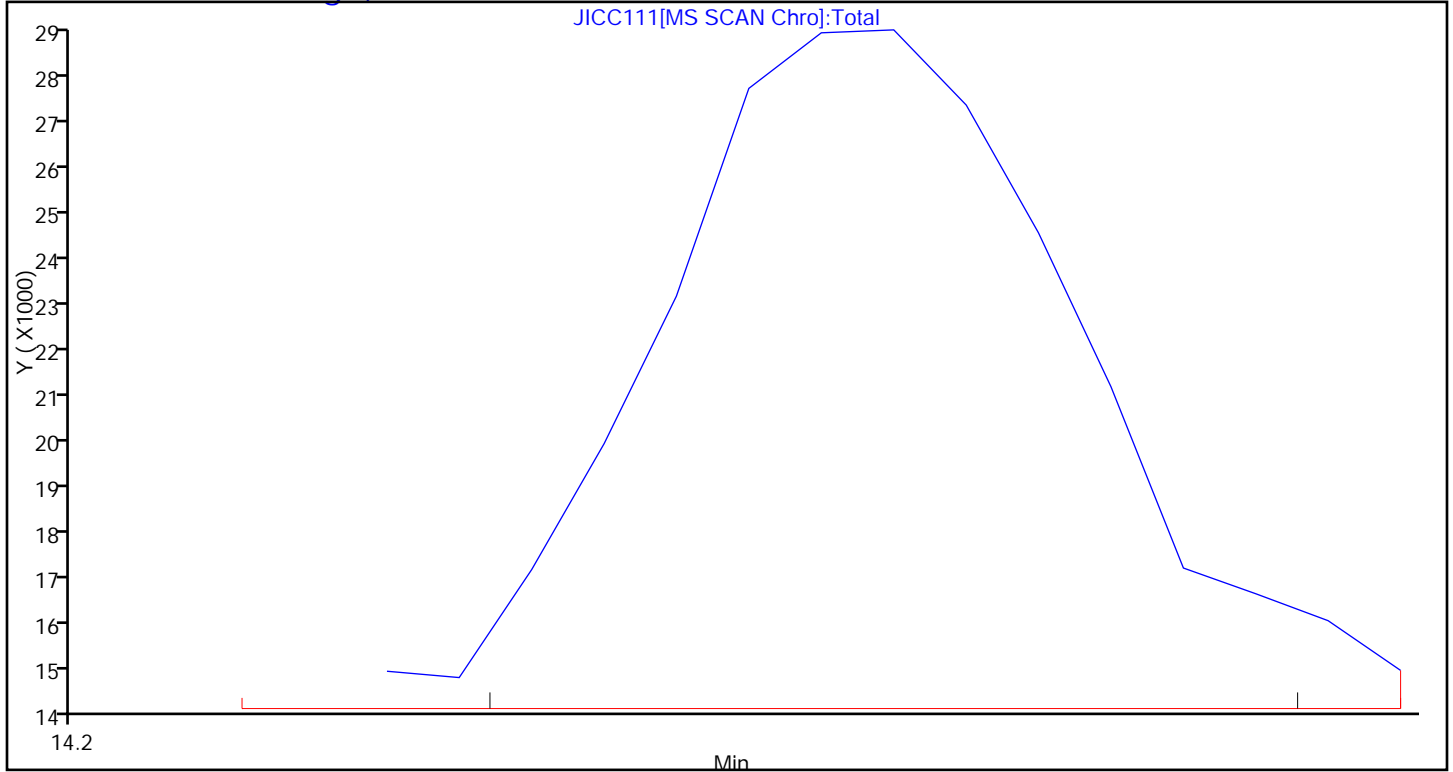
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30 Instrument ID: MJ

Lims ID: IC L1 Lab Sample ID:

Client ID:

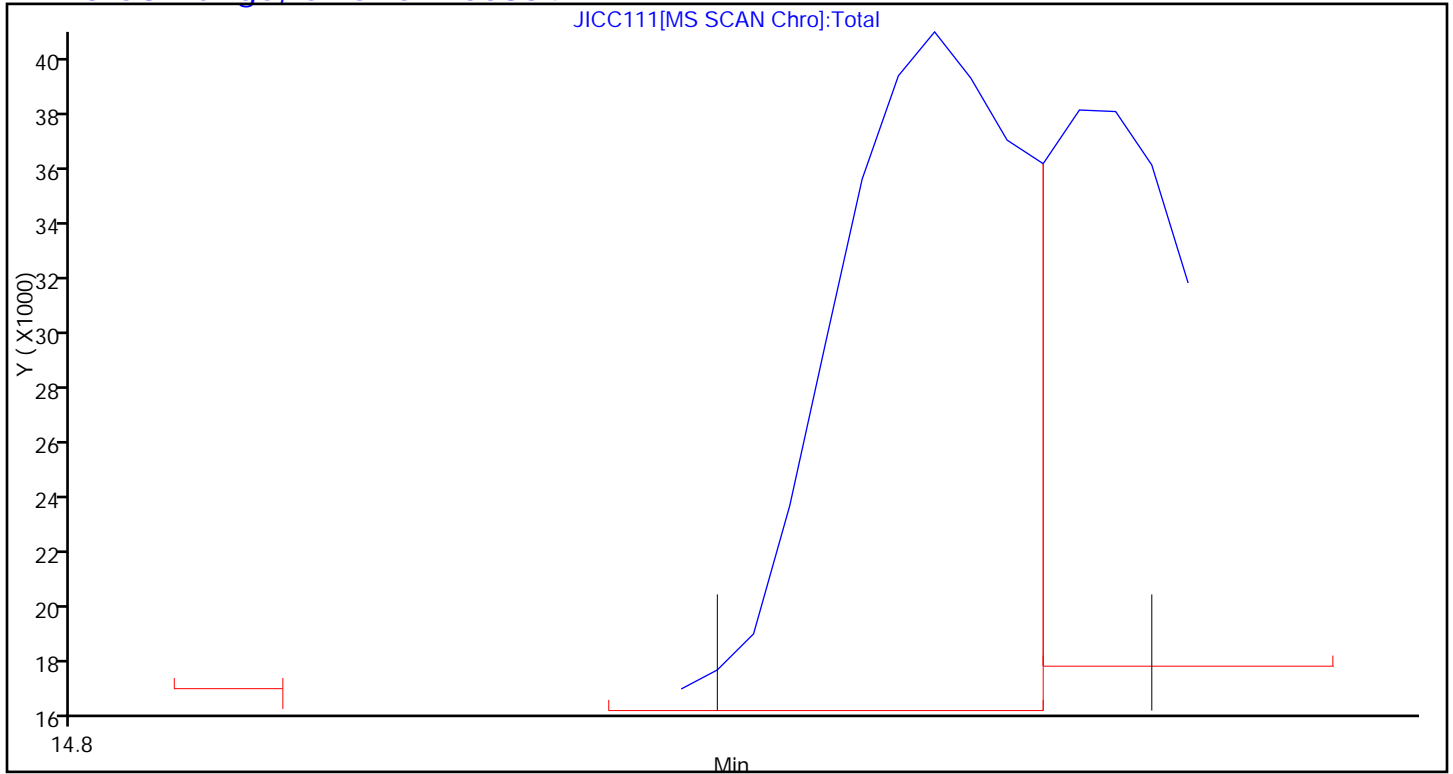
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D
 Lims ID: IC L2 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Mar-2014 13:35:30 ALS Bottle#: 8 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL2,,1,2,,ICAL 0.08
 Misc. Info.: J031114I,TO15,,140-0000516-003
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:57

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	351959	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1697921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1421637	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.825	-0.003	90	985783	3.92	
6 Chlorodifluoromethane	67	3.965	3.960	0.004	90	3504	0.0965	
7 Propene	41	3.975	3.973	0.002	98	12138	0.1125	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	95	29444	0.0845	
9 Chloromethane	52	4.228	4.230	-0.002	90	3561	0.0899	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	88	20686	0.0786	
11 Acetaldehyde	44	4.400	4.398	0.002	99	45343	1.31	
12 Vinyl chloride	62	4.416	4.419	-0.003	67	10730	0.0822	
14 Butadiene	54	4.519	4.517	0.002	58	7941	0.0876	
13 Butane	43	4.519	4.517	0.002	87	17319	0.0933	
15 Bromomethane	94	4.868	4.871	-0.003	88	11324	0.0853	
16 Chloroethane	64	5.030	5.027	0.003	66	4956	0.0826	
17 Ethanol	31	5.126	5.122	0.004	94	18689	0.6614	
18 Vinyl bromide	106	5.358	5.357	0.001	72	9051	0.0802	
19 2-Methylbutane	43	5.412	5.411	0.001	85	14009	0.0937	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	87	24616	0.0804	
21 Acrolein	56	5.648	5.650	-0.002	1	2906	0.1011	
22 Acetonitrile	40	5.729	5.720	0.009	91	2885	0.0909	
23 Acetone	58	5.788	5.776	0.012	83	21741	0.4346	
24 Isopropyl alcohol	45	5.863	5.858	0.005	57	14698	0.1113	
25 Pentane	72	5.885	5.884	0.001	84	1358	0.0717	
26 Ethyl ether	31	6.068	6.059	0.009	82	8583	0.0932	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	81	7963	0.0806	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	75	15116	0.0929	
29 Acrylonitrile	53	6.498	6.498	0.0	40	4249	0.0812	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	83	17027	0.0802	
31 Methylene Chloride	84	6.756	6.759	-0.003	91	10876	0.1155	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	80	9954	0.1016	
33 Carbon disulfide	76	6.939	6.942	-0.003	98	26783	0.0809	
34 trans-1,2-Dichloroethene	96	7.606	7.609	-0.003	85	9917	0.0833	
35 2-Methylpentane	43	7.628	7.631	-0.003	86	23860	0.0879	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	84	15796	0.0879	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	65	15825	0.0852	
38 Vinyl acetate	43	8.144	8.141	0.003	99	14224	0.0874	
39 2-Butanone (MEK)	72	8.612	8.601	0.011	91	4259	0.1278	
40 Hexane	56	8.645	8.642	0.003	85	8251	0.0872	
41 cis-1,2-Dichloroethene	96	9.048	9.052	-0.004	67	8788	0.0865	
42 Ethyl acetate	43	9.236	9.229	0.007	83	13104	0.0903	
43 Chloroform	83	9.398	9.403	-0.005	15	17711	0.0864	
44 Tetrahydrofuran	42	9.833	9.816	0.017	89	7748	0.0950	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	78	18227	0.0853	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	63	11010	0.0836	
47 n-Butanol	31	10.974	10.958	0.016	72	4071	0.1097	
48 Benzene	78	11.033	11.033	0.0	92	26808	0.0920	
49 Cyclohexane	69	11.038	11.040	-0.002	83	4766	0.0829	
50 Carbon tetrachloride	117	11.055	11.059	-0.004	87	18074	0.0751	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	82	5679	0.0826	
52 Thiophene	84	11.291	11.297	-0.006	67	15107	0.0840	
53 Isooctane	57	11.770	11.771	-0.001	91	43691	0.0878	
54 n-Heptane	71	12.131	12.130	0.001	80	8567	0.0832	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	69	8407	0.0854	
56 Trichloroethene	130	12.249	12.252	-0.003	73	11412	0.0807	
57 Dibromomethane	93	12.330	12.332	-0.002	84	10647	0.0822	
59 Dichlorobromomethane	83	12.469	12.472	-0.003	79	16281	0.0792	
58 1,4-Dioxane	88	12.496	12.483	0.013	55	2681	0.0760	
60 Methyl methacrylate	41	12.550	12.548	0.002	49	7159	0.0810	
61 Methylcyclohexane	83	13.013	13.013	0.0	88	16589	0.0846	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	83	13754	0.0773	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	68	11409	0.0817	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	67	9630	0.0817	
65 Toluene	91	14.261	14.262	-0.001	79	23320	0.0884	
66 1,1,2-Trichloroethane	83	14.325	14.328	-0.003	76	7143	0.0855	
67 2-Methylthiophene	97	14.411	14.413	-0.002	76	20765	0.0876	
68 3-Methylthiophene	97	14.610	14.612	-0.002	72	20169	0.0848	
69 2-Hexanone	58	14.691	14.694	-0.003	77	6711	0.0777	
70 n-Octane	85	14.928	14.928	0.0	90	8228	0.0850	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	71	12900	0.0699	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	75	11550	0.0806	
73 Tetrachloroethene	129	15.390	15.393	-0.003	82	10252	0.0834	
75 Chlorobenzene	112	16.257	16.256	0.001	30	18101	0.0803	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	93	28479	0.0981	
76 Ethylbenzene	91	16.536	16.536	0.0	83	24423	0.0838	
77 2-Ethylthiophene	97	16.639	16.638	0.001	51	18507	0.0811	
78 m-Xylene & p-Xylene	91	16.692	16.696	-0.004	95	36838	0.1567	
79 n-Nonane	57	17.096	17.098	-0.002	89	14980	0.0819	
81 Bromoform	173	17.150	17.149	0.001	64	8612	0.0591	
80 Styrene	104	17.155	17.157	-0.002	78	10790	0.0668	
82 o-Xylene	91	17.220	17.220	0.0	84	19871	0.0834	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	77	14012	0.0720	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	73	3358	0.0719	
85 Isopropylbenzene	105	17.790	17.793	-0.003	83	28138	0.0829	
86 N-Propylbenzene	120	18.312	18.310	0.002	90	6000	0.0670	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	77	7042	0.0754	
88 4-Ethyltoluene	105	18.451	18.454	-0.003	85	23930	0.0756	
89 1,3,5-Trimethylbenzene	120	18.521	18.524	-0.003	84	11546	0.0725	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	64	6489	0.0569	
91 n-Decane	57	18.790	18.793	-0.003	77	14539	0.0746	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	81	22994	0.0740	
93 1,2,4-Trimethylbenzene	105	18.946	18.949	-0.003	77	19426	0.0704	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	89	29629	0.0731	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	83	13041	0.0719	
96 Benzyl chloride	91	19.285	19.288	-0.003	82	14954	0.0725	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	83	12015	0.0711	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	71	22915	0.0705	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	82	17168	0.0763	
100 Butylcyclohexane	83	19.457	19.460	-0.003	86	21401	0.0833	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	81	18631	0.0739	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	71	12220	0.0688	
103 n-Butylbenzene	91	19.775	19.777	-0.002	90	21249	0.0705	
104 Indene	116	19.780	19.781	-0.001	81	14683	0.0666	
105 Undecane	57	20.065	20.068	-0.003	86	15935	0.0811	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	74	21750	0.0714	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.003	87	24071	0.0787	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	81	16306	0.0816	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	84	21613	0.0873	
110 Dodecane	57	21.147	21.148	-0.001	75	17682	0.0870	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	57	6805	0.0862	
112 Naphthalene	128	21.528	21.527	0.001	92	17213	0.0769	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	76	12541	0.0827	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	77	13588	0.0842	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	70	8385	0.0822	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	82	13381	0.5625	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	86	14503	0.5912	
139 Isopropyl ether	45	8.801	8.794	0.007	90	21937	NR	
142 Tert-butyl ethyl ether	59	9.495	9.487	0.008	79	18395	NR	
140 Tert-amyl methyl ether	73	11.490	11.482	0.008	68	17787	NR	
A 118 C6 Range	1	8.639	8.596 - 8.682		0	106564	0.1037	
A 122 Toluene Range	1	14.261	14.231 - 14.291		0	53595	0.0834	
A 123 C8 Range	1	14.928	14.896 - 14.960		0	128220	0.1287	
S 124 Xylenes, Total	100				0		0.2401	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L2

Lab Sample ID:

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

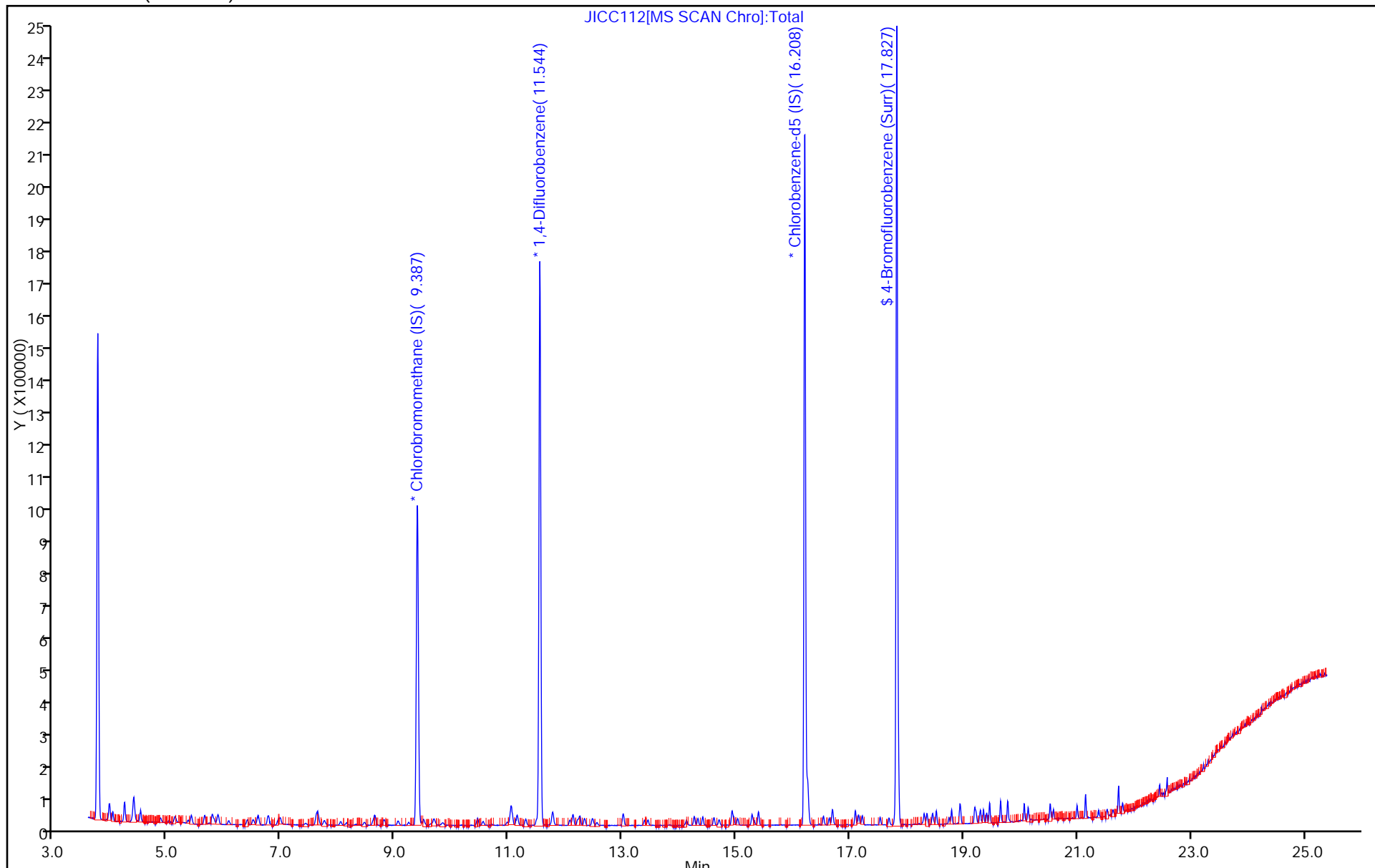
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

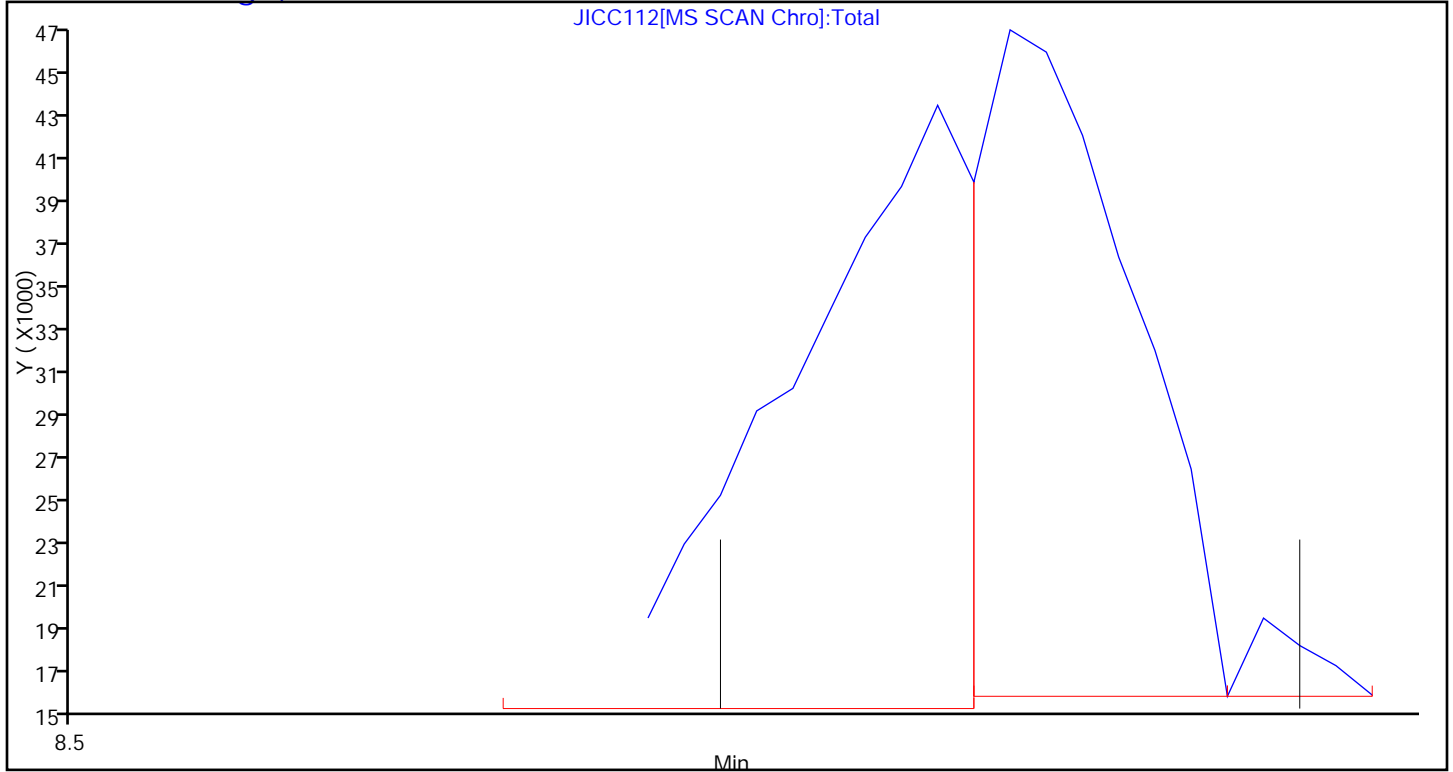
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

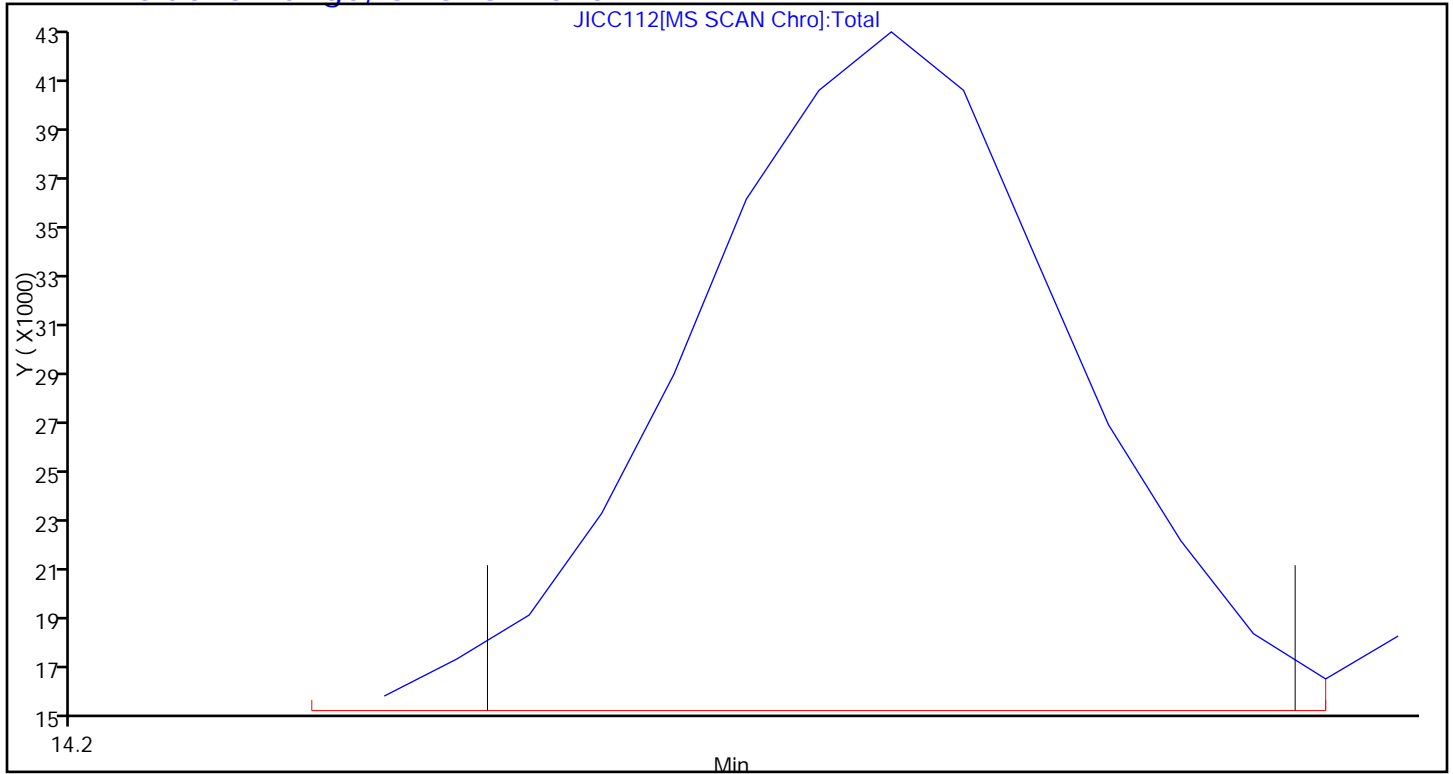
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

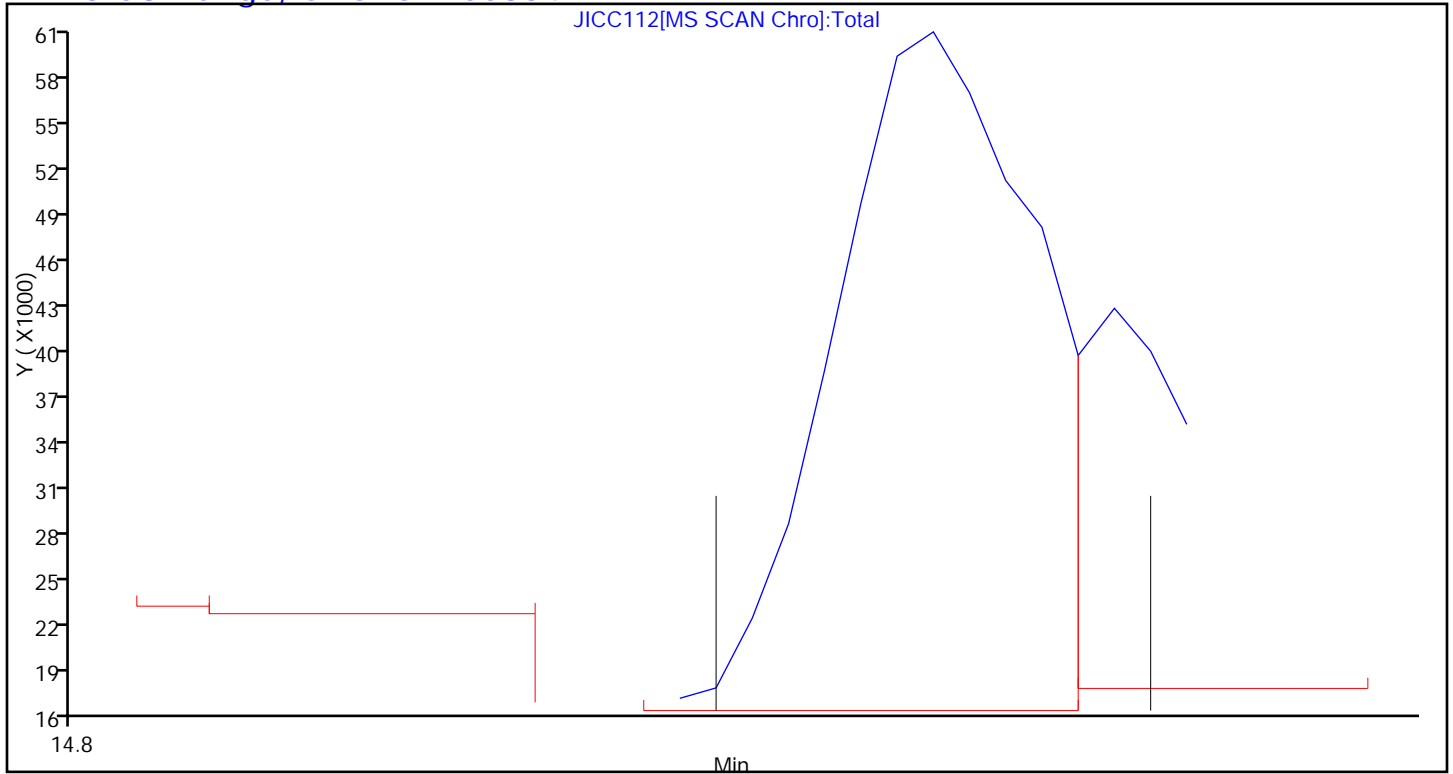
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D
 Lims ID: IC L3 Lab Sample ID: Client 140-535/4-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Mar-2014 14:29:30 ALS Bottle#: 9 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL3,,1,3,,ICAL 0.16
 Misc. Info.: J031114I,TO15,,140-0000516-004
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:45 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.392	-0.004	91	357314	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	94	1704540	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.204	16.208	-0.004	87	1450555	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1034797	4.03	
6 Chlorodifluoromethane	67	3.955	3.960	-0.005	92	7250	0.1966	
7 Propene	41	3.971	3.973	-0.002	99	22123	0.2019	
8 Dichlorodifluoromethane	85	4.025	4.029	-0.004	100	63957	0.1807	
9 Chloromethane	52	4.224	4.230	-0.006	60	7684	0.1911	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.238	-0.004	90	47157	0.1765	
11 Acetaldehyde	44	4.396	4.398	-0.002	98	35881	1.02	
12 Vinyl chloride	62	4.417	4.419	-0.002	87	24848	0.1876	
14 Butadiene	54	4.514	4.517	-0.003	85	17011	0.1848	
13 Butane	43	4.514	4.517	-0.003	87	35698	0.1894	
15 Bromomethane	94	4.869	4.871	-0.002	92	24480	0.1817	
16 Chloroethane	64	5.025	5.027	-0.002	78	11208	0.1839	
17 Ethanol	31	5.117	5.122	-0.005	94	27045	0.9428	
18 Vinyl bromide	106	5.353	5.357	-0.004	93	20665	0.1804	
19 2-Methylbutane	43	5.407	5.411	-0.004	93	29844	0.1967	
20 Trichlorofluoromethane	101	5.644	5.647	-0.003	96	56802	0.1827	
21 Acrolein	56	5.655	5.650	0.005	6	5224	0.1791	
22 Acetonitrile	40	5.719	5.720	-0.001	95	6174	0.1916	
23 Acetone	58	5.778	5.776	0.002	83	15375	0.3027	
24 Isopropyl alcohol	45	5.859	5.858	0.001	69	24457	0.1824	
25 Pentane	72	5.880	5.884	-0.004	93	3459	0.1799	
26 Ethyl ether	31	6.058	6.059	-0.001	88	17680	0.1891	
27 1,1-Dichloroethene	96	6.392	6.399	-0.007	94	17971	0.1791	
28 2-Methyl-2-propanol	59	6.488	6.487	0.001	91	30258	0.1831	
29 Acrylonitrile	53	6.499	6.498	0.001	44	9278	0.1747	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	90	38956	0.1808	
31 Methylene Chloride	84	6.757	6.759	-0.002	93	19809	0.2072	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.768	6.778	-0.010	90	20200	0.2032	
33 Carbon disulfide	76	6.940	6.942	-0.002	97	61892	0.1841	
34 trans-1,2-Dichloroethene	96	7.607	7.609	-0.002	95	21641	0.1791	
35 2-Methylpentane	43	7.629	7.631	-0.002	93	51760	0.1877	
36 Methyl tert-butyl ether	73	7.742	7.738	0.004	93	33243	0.1823	
37 1,1-Dichloroethane	63	8.038	8.041	-0.003	90	36976	0.1961	
38 Vinyl acetate	43	8.140	8.141	-0.001	98	29176	0.1766	
39 2-Butanone (MEK)	72	8.608	8.601	0.007	94	5876	0.1737	
40 Hexane	56	8.635	8.642	-0.007	89	18317	0.1907	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	85	20156	0.1954	
42 Ethyl acetate	43	9.227	9.229	-0.003	94	26903	0.1826	
43 Chloroform	83	9.399	9.403	-0.004	67	40765	0.1958	
44 Tetrahydrofuran	42	9.818	9.816	0.002	89	15807	0.1910	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	90	42198	0.1945	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	86	23652	0.1789	
47 n-Butanol	31	10.964	10.958	0.006	76	8551	0.2295	
48 Benzene	78	11.029	11.033	-0.004	95	53761	0.1838	
49 Cyclohexane	69	11.034	11.040	-0.006	89	10543	0.1827	
50 Carbon tetrachloride	117	11.056	11.059	-0.003	94	43678	0.1808	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	88	12974	0.1880	
52 Thiophene	84	11.292	11.297	-0.005	92	34350	0.1902	
53 Isooctane	57	11.766	11.771	-0.005	97	97042	0.1943	
54 n-Heptane	71	12.126	12.130	-0.004	86	19608	0.1896	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	80	16678	0.1687	
56 Trichloroethene	130	12.250	12.252	-0.002	90	26470	0.1866	
57 Dibromomethane	93	12.330	12.332	-0.002	88	23612	0.1815	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	93	35477	0.1719	
58 1,4-Dioxane	88	12.492	12.483	0.009	69	5872	0.1658	
60 Methyl methacrylate	41	12.546	12.548	-0.002	74	14809	0.1670	
61 Methylcyclohexane	83	13.014	13.013	0.001	94	37072	0.1883	
62 4-Methyl-2-pentanone (MIBK)	43	13.385	13.382	0.003	88	25379	0.1420	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	85	22640	0.1614	
64 trans-1,3-Dichloropropene	75	14.122	14.126	-0.004	83	20295	0.1688	
65 Toluene	91	14.262	14.262	0.0	91	47832	0.1778	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	91	14877	0.1744	
67 2-Methylthiophene	97	14.412	14.413	-0.001	91	42390	0.1753	
68 3-Methylthiophene	97	14.611	14.612	-0.001	86	42847	0.1766	
69 2-Hexanone	58	14.697	14.694	0.003	82	12124	0.1376	
70 n-Octane	85	14.929	14.928	0.001	90	17415	0.1764	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	88	28336	0.1505	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	80	24689	0.1689	
73 Tetrachloroethene	129	15.391	15.393	-0.002	85	22395	0.1786	
75 Chlorobenzene	112	16.252	16.256	-0.004	75	38702	0.1684	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	94	53631	0.1810	
76 Ethylbenzene	91	16.532	16.536	-0.004	91	53929	0.1814	
77 2-Ethylthiophene	97	16.639	16.638	0.001	84	41218	0.1769	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	83497	0.3481	
79 n-Nonane	57	17.097	17.098	-0.001	91	29027	0.1555	
81 Bromoform	173	17.145	17.149	-0.004	80	19445	0.1308	
80 Styrene	104	17.156	17.157	-0.001	89	24244	0.1472	
82 o-Xylene	91	17.220	17.220	0.0	89	45016	0.1851	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	94	30304	0.1525	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.694	17.690	0.004	90	7573	0.1590	
85 Isopropylbenzene	105	17.791	17.793	-0.002	86	60842	0.1756	
86 N-Propylbenzene	120	18.312	18.310	0.002	96	14173	0.1551	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	89	15581	0.1634	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	94	51618	0.1598	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	89	24966	0.1537	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	78	14480	0.1244	
91 n-Decane	57	18.791	18.793	-0.002	86	30213	0.1519	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	47790	0.1507	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	86	41818	0.1484	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	95	61653	0.1491	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	94	26725	0.1443	
96 Benzyl chloride	91	19.286	19.288	-0.002	95	30711	0.1460	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	89	24804	0.1439	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	80	47097	0.1421	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	91	35544	0.1548	
100 Butylcyclohexane	83	19.458	19.460	-0.002	89	39782	0.1518	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	87	37844	0.1470	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	25655	0.1417	
103 n-Butylbenzene	91	19.776	19.777	-0.001	94	44913	0.1460	
104 Indene	116	19.781	19.781	0.0	83	31046	0.1380	
105 Undecane	57	20.066	20.068	-0.002	92	30780	0.1536	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	91	42402	0.1364	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	93	45438	0.1455	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	89	30265	0.1485	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	89	37074	0.1468	
110 Dodecane	57	21.147	21.148	-0.001	89	33803	0.1629	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	74	10877	0.1350	
112 Naphthalene	128	21.524	21.527	-0.003	95	30193	0.1323	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	80	19240	0.1244	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	79	23861	0.1449	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	85	14621	0.1404	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	89	21725	0.8950	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	92	25220	1.01	
139 Isopropyl ether	45	8.796	8.794	0.002	93	44609	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	93	40755	NR	
140 Tert-amyl methyl ether	73	11.486	11.482	0.004	74	38761	NR	
A 118 C6 Range	1	8.640	8.586 - 8.694		0	202396	0.1940	
A 122 Toluene Range	1	14.262	14.232 - 14.292		0	134690	0.2054	
A 123 C8 Range	1	14.923	14.886 - 14.961		0	242838	0.2390	
S 124 Xylenes, Total	100				0		0.5333	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

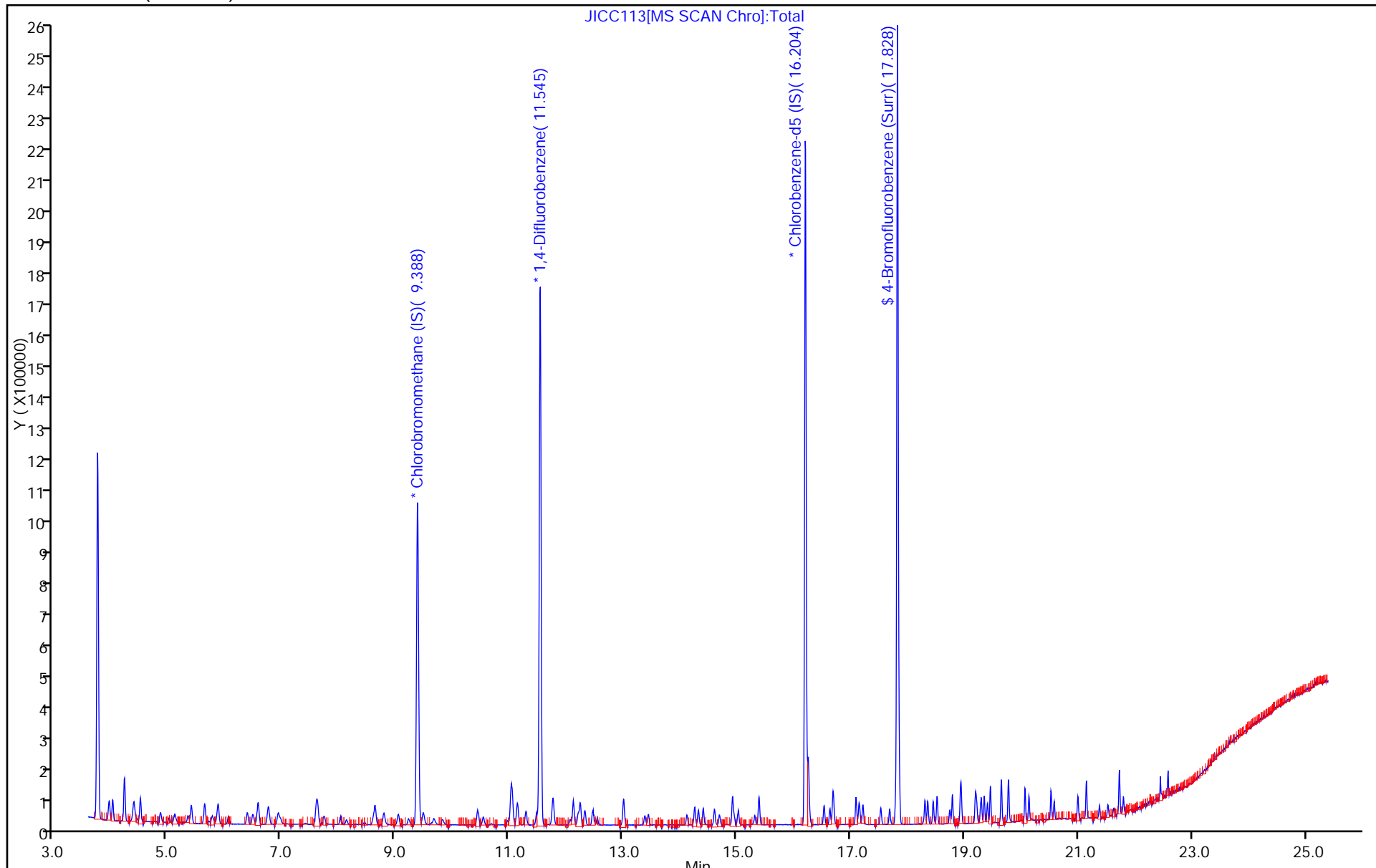
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

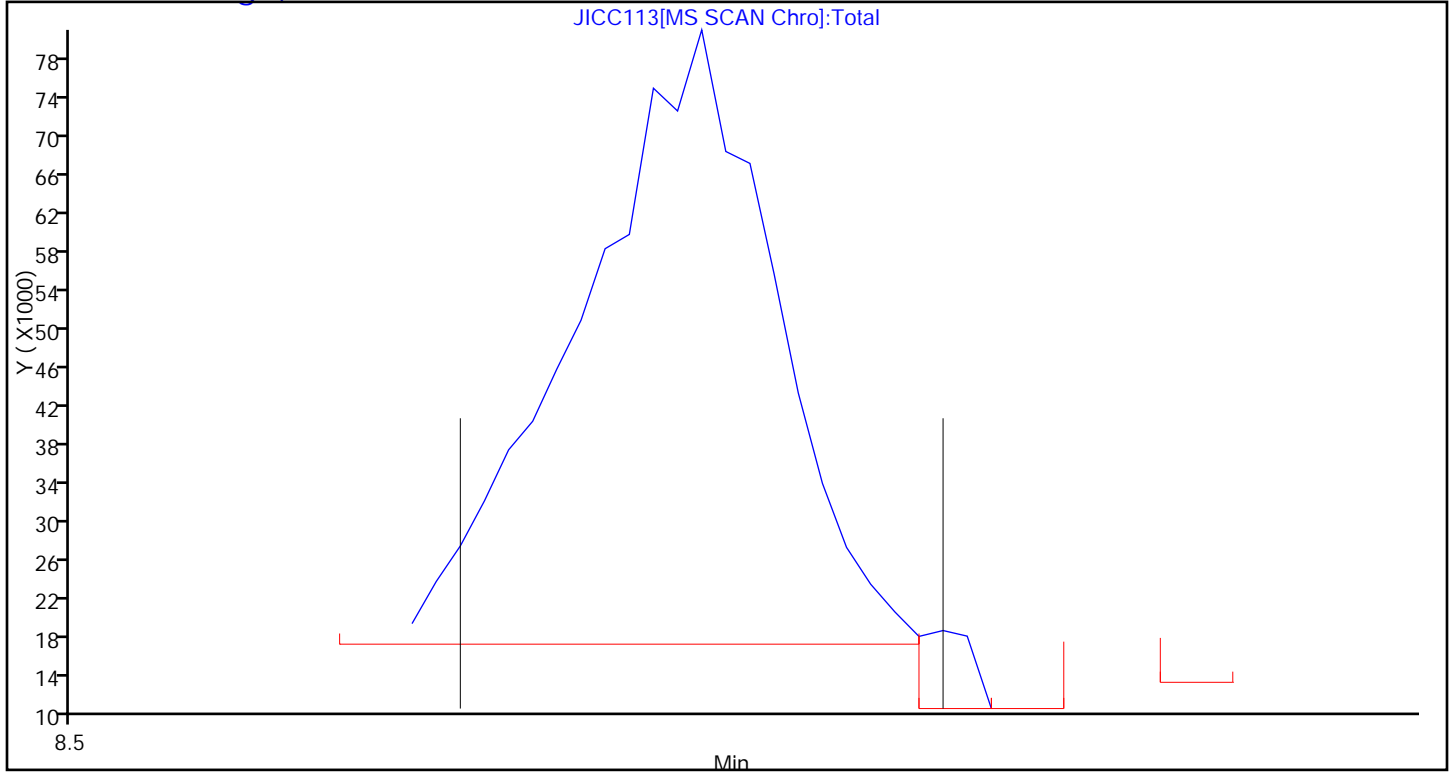
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

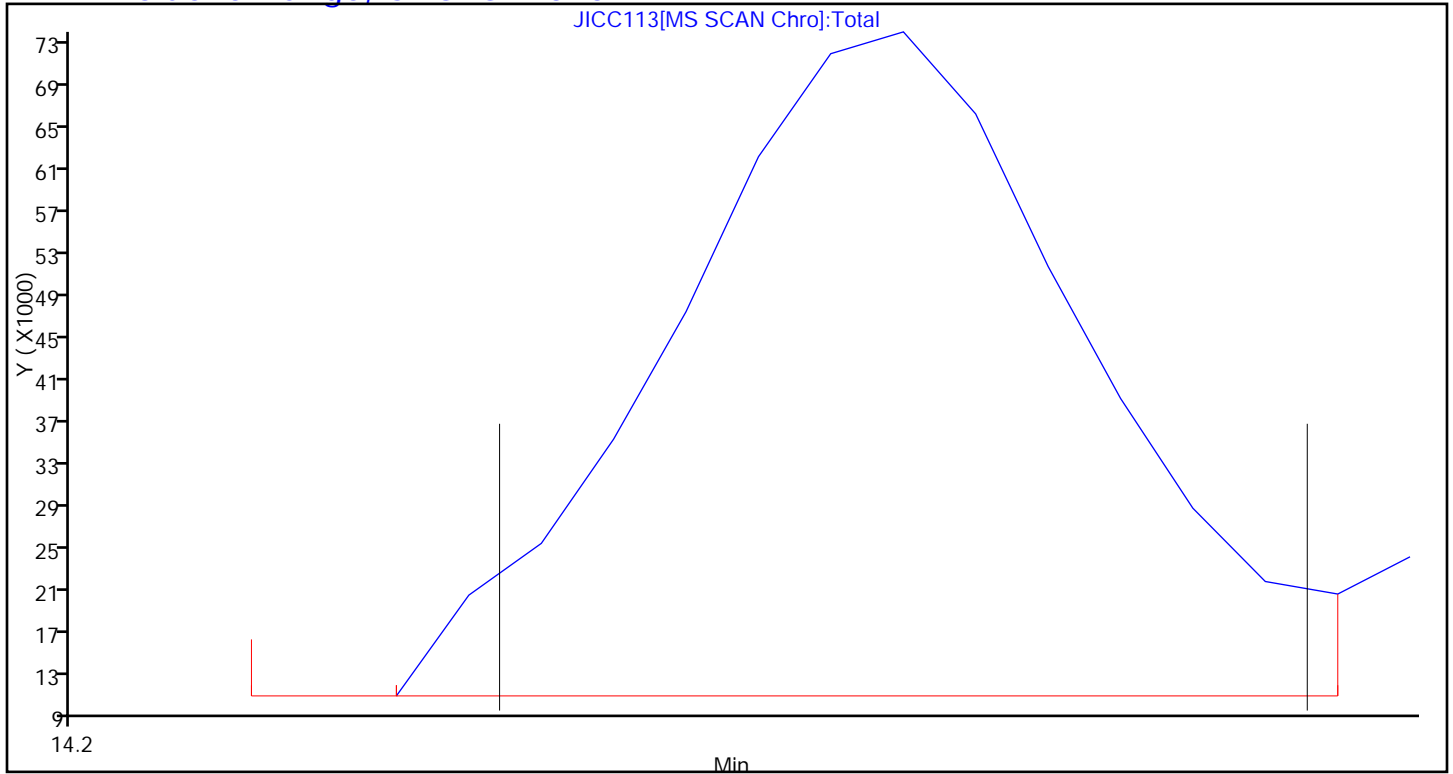
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9 Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

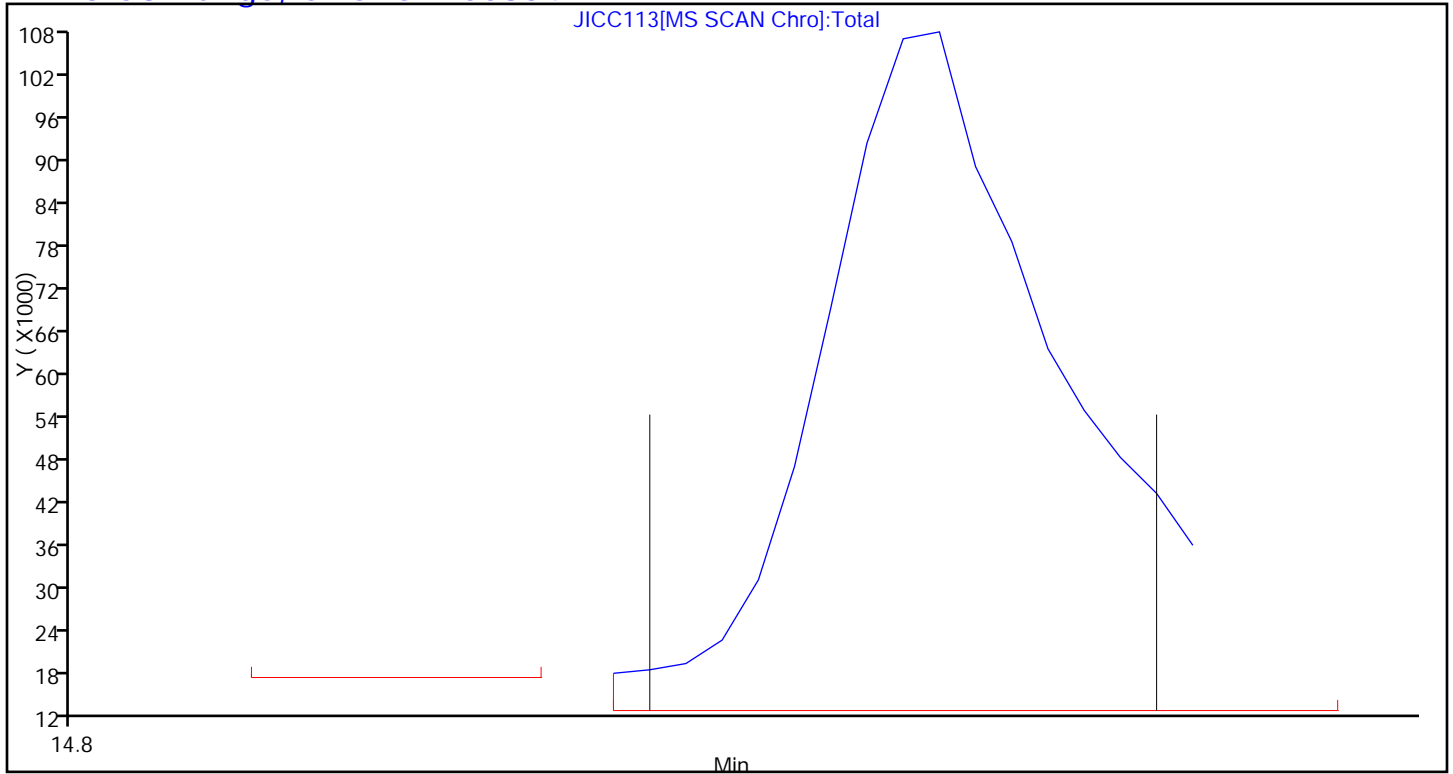
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D
 Lims ID: IC L4 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2014 15:23:30 ALS Bottle#: 10 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL4,,1,4,,ICAL 0.4
 Misc. Info.: J031114I,TO15,,140-0000516-005
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:29 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	343740	4.00	
* 2 1,4-Difluorobenzene	114	11.547	11.547	0.0	94	1630205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.205	16.208	-0.003	87	1321433	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	90	911404	3.90	
6 Chlorodifluoromethane	67	3.962	3.960	0.002	96	13846	0.3903	
7 Propene	41	3.972	3.973	-0.001	99	44922	0.4262	
8 Dichlorodifluoromethane	85	4.032	4.029	0.003	100	134818	0.3960	
9 Chloromethane	52	4.231	4.230	0.001	100	15228	0.3937	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.238	-0.002	92	93560	0.3641	
11 Acetaldehyde	44	4.397	4.398	-0.001	99	64164	1.89	
12 Vinyl chloride	62	4.419	4.419	0.0	98	51116	0.4011	
14 Butadiene	54	4.516	4.517	-0.001	65	35435	0.4002	
13 Butane	43	4.516	4.517	-0.001	86	71879	0.3963	
15 Bromomethane	94	4.871	4.871	0.0	94	50293	0.3880	
16 Chloroethane	64	5.027	5.027	0.0	98	23148	0.3949	
17 Ethanol	31	5.118	5.122	-0.004	94	58098	2.11	
18 Vinyl bromide	106	5.355	5.357	-0.002	94	42200	0.3828	
19 2-Methylbutane	43	5.414	5.411	0.003	91	57096	0.3911	
20 Trichlorofluoromethane	101	5.645	5.647	-0.002	97	116368	0.3890	
21 Acrolein	56	5.651	5.650	0.001	19	8002	0.2852	
22 Acetonitrile	40	5.721	5.720	0.001	99	11328	0.3655	
23 Acetone	58	5.775	5.776	-0.001	83	24784	0.5072	
24 Isopropyl alcohol	45	5.855	5.858	-0.003	94	52512	0.4070	
25 Pentane	72	5.882	5.884	-0.002	95	7244	0.3917	
26 Ethyl ether	31	6.065	6.059	0.006	90	29228	0.3250	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	96	36039	0.3735	
28 2-Methyl-2-propanol	59	6.485	6.487	-0.002	93	66363	0.4175	
29 Acrylonitrile	53	6.495	6.498	-0.003	93	15228	0.2981	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.587	6.586	0.001	93	79676	0.3844	
31 Methylene Chloride	84	6.759	6.759	0.0	94	36329	0.3951	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.775	6.778	-0.003	91	35748	0.3737	
33 Carbon disulfide	76	6.942	6.942	0.0	99	124614	0.3854	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	96	43537	0.3746	
35 2-Methylpentane	43	7.630	7.631	-0.001	94	102693	0.3872	
36 Methyl tert-butyl ether	73	7.738	7.738	0.0	95	59586	0.3396	
37 1,1-Dichloroethane	63	8.039	8.041	-0.002	96	65235	0.3596	
38 Vinyl acetate	43	8.142	8.141	0.001	99	48718	0.3066	
39 2-Butanone (MEK)	72	8.604	8.601	0.003	78	11813	0.3631	
40 Hexane	56	8.636	8.642	-0.006	87	34438	0.3727	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	93	35319	0.3559	
42 Ethyl acetate	43	9.228	9.229	-0.001	95	46769	0.3300	
43 Chloroform	83	9.400	9.403	-0.003	80	71523	0.3571	
44 Tetrahydrofuran	42	9.815	9.816	-0.001	93	27476	0.3451	
45 1,1,1-Trichloroethane	97	10.449	10.450	-0.001	96	75903	0.3636	
46 1,2-Dichloroethane	62	10.546	10.547	-0.001	94	43695	0.3455	
47 n-Butanol	31	10.960	10.958	0.002	94	14706	0.4127	
48 Benzene	78	11.030	11.033	-0.003	96	97096	0.3471	
49 Cyclohexane	69	11.036	11.040	-0.004	93	20873	0.3782	
50 Carbon tetrachloride	117	11.057	11.059	-0.002	94	84912	0.3675	
51 2,3-Dimethylpentane	71	11.143	11.148	-0.005	91	23214	0.3518	
52 Thiophene	84	11.294	11.297	-0.003	93	60186	0.3484	
53 Isooctane	57	11.767	11.771	-0.004	97	173617	0.3635	
54 n-Heptane	71	12.128	12.130	-0.002	91	33732	0.3410	
55 1,2-Dichloropropane	63	12.214	12.214	0.0	84	30869	0.3265	
56 Trichloroethene	130	12.246	12.252	-0.006	95	46631	0.3437	
57 Dibromomethane	93	12.332	12.332	0.0	88	41095	0.3303	
59 Dichlorobromomethane	83	12.472	12.472	0.0	97	63861	0.3235	
58 1,4-Dioxane	88	12.483	12.483	0.0	45	11964	0.3532	
60 Methyl methacrylate	41	12.547	12.548	-0.001	84	24813	0.2925	
61 Methylcyclohexane	83	13.010	13.013	-0.003	95	65787	0.3494	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.382	-0.001	93	52154	0.3052	
63 cis-1,3-Dichloropropene	75	13.446	13.448	-0.002	93	42126	0.3141	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	92	35040	0.3200	
65 Toluene	91	14.258	14.262	-0.004	93	79532	0.3244	
66 1,1,2-Trichloroethane	83	14.328	14.328	0.0	95	26153	0.3366	
67 2-Methylthiophene	97	14.409	14.413	-0.004	95	73689	0.3345	
68 3-Methylthiophene	97	14.608	14.612	-0.004	94	73553	0.3328	
69 2-Hexanone	58	14.694	14.694	0.0	88	25873	0.3222	
70 n-Octane	85	14.925	14.928	-0.003	93	31719	0.3527	
71 Chlorodibromomethane	129	15.027	15.027	0.0	94	54305	0.3167	
72 Ethylene Dibromide	107	15.318	15.317	0.001	89	42940	0.3225	
73 Tetrachloroethene	129	15.393	15.393	0.0	90	38555	0.3376	
75 Chlorobenzene	112	16.254	16.256	-0.002	66	67168	0.3208	
74 2,3-Dimethylheptane	43	16.259	16.260	-0.001	95	107761	0.3992	
76 Ethylbenzene	91	16.534	16.536	-0.002	97	85699	0.3165	
77 2-Ethylthiophene	97	16.636	16.638	-0.002	91	66902	0.3153	
78 m-Xylene & p-Xylene	91	16.695	16.696	-0.001	99	133531	0.6111	
79 n-Nonane	57	17.098	17.098	0.0	93	57485	0.3381	
81 Bromoform	173	17.147	17.149	-0.002	92	36819	0.2718	
80 Styrene	104	17.158	17.157	0.001	95	41766	0.2783	
82 o-Xylene	91	17.217	17.220	-0.003	94	72917	0.3292	
83 1,1,2,2-Tetrachloroethane	83	17.534	17.534	0.0	97	58192	0.3215	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.690	17.690	0.0	95	13592	0.3132	
85 Isopropylbenzene	105	17.792	17.793	-0.001	83	100706	0.3191	
86 N-Propylbenzene	120	18.309	18.310	-0.001	97	24502	0.2944	
87 2-Chlorotoluene	126	18.357	18.357	0.0	94	26819	0.3088	
88 4-Ethyltoluene	105	18.454	18.454	0.0	96	89983	0.3057	
89 1,3,5-Trimethylbenzene	120	18.524	18.524	0.0	91	45307	0.3062	
90 Alpha Methyl Styrene	118	18.744	18.745	-0.001	81	27470	0.2591	
91 n-Decane	57	18.793	18.793	0.0	87	56293	0.3107	
92 tert-Butylbenzene	119	18.933	18.937	-0.004	83	89301	0.3090	
93 1,2,4-Trimethylbenzene	105	18.949	18.949	0.0	90	76446	0.2979	
94 sec-Butylbenzene	105	19.196	19.196	0.0	96	115821	0.3075	
95 1,3-Dichlorobenzene	146	19.218	19.217	0.001	96	46329	0.2747	
96 Benzyl chloride	91	19.288	19.288	0.0	95	52876	0.2759	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	92	43546	0.2774	
98 4-Isopropyltoluene	119	19.352	19.352	0.0	81	90008	0.2981	
99 1,2,3-Trimethylbenzene	105	19.406	19.409	-0.003	97	68250	0.3264	
100 Butylcyclohexane	83	19.460	19.460	0.0	91	78686	0.3297	
101 2,3-Dihydroindene	117	19.654	19.653	0.001	89	70569	0.3010	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	78	46356	0.2810	
103 n-Butylbenzene	91	19.777	19.777	0.0	96	79971	0.2854	
104 Indene	116	19.777	19.781	-0.004	83	57358	0.2800	
105 Undecane	57	20.068	20.068	0.0	95	59319	0.3250	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.138	20.138	0.0	93	80666	0.2849	
108 1,2,4,5-Tetramethylbenzene	119	20.525	20.525	0.0	96	89023	0.3130	
107 1,2,3,5-Tetramethylbenzene	119	20.579	20.582	-0.003	93	56702	0.3054	
109 1,2,3,4-Tetramethylbenzene	119	20.998	20.998	0.0	95	74166	0.3224	
110 Dodecane	57	21.149	21.148	0.001	92	65545	0.3468	
111 1,2,4-Trichlorobenzene	180	21.380	21.379	0.001	88	21000	0.2861	
112 Naphthalene	128	21.526	21.527	-0.001	98	60395	0.2905	
113 Benzo(b)thiophene	134	21.633	21.631	0.002	90	38727	0.2749	
114 Hexachlorobutadiene	225	21.730	21.729	0.001	83	45108	0.3008	
115 1,2,3-Trichlorobenzene	180	21.800	21.800	0.0	93	29244	0.3083	
116 2-Methylnaphthalene	142	22.451	22.449	0.002	97	47754	2.16	
117 1-Methylnaphthalene	142	22.585	22.583	0.002	97	56061	2.46	
139 Isopropyl ether	45	8.792	8.794	-0.002	96	82128	NR	
142 Tert-butyl ethyl ether	59	9.486	9.487	-0.001	93	74941	NR	
140 Tert-amyl methyl ether	73	11.482	11.482	0.0	76	70041	NR	
A 118 C6 Range	1	8.642	8.588 - 8.696		0	410756	0.4093	
A 122 Toluene Range	1	14.258	14.228 - 14.288		0	190190	0.3183	
A 123 C8 Range	1	14.925	14.882 - 14.968		0	360891	0.3898	
S 124 Xylenes, Total	100				0		0.9404	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L4

Lab Sample ID:

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

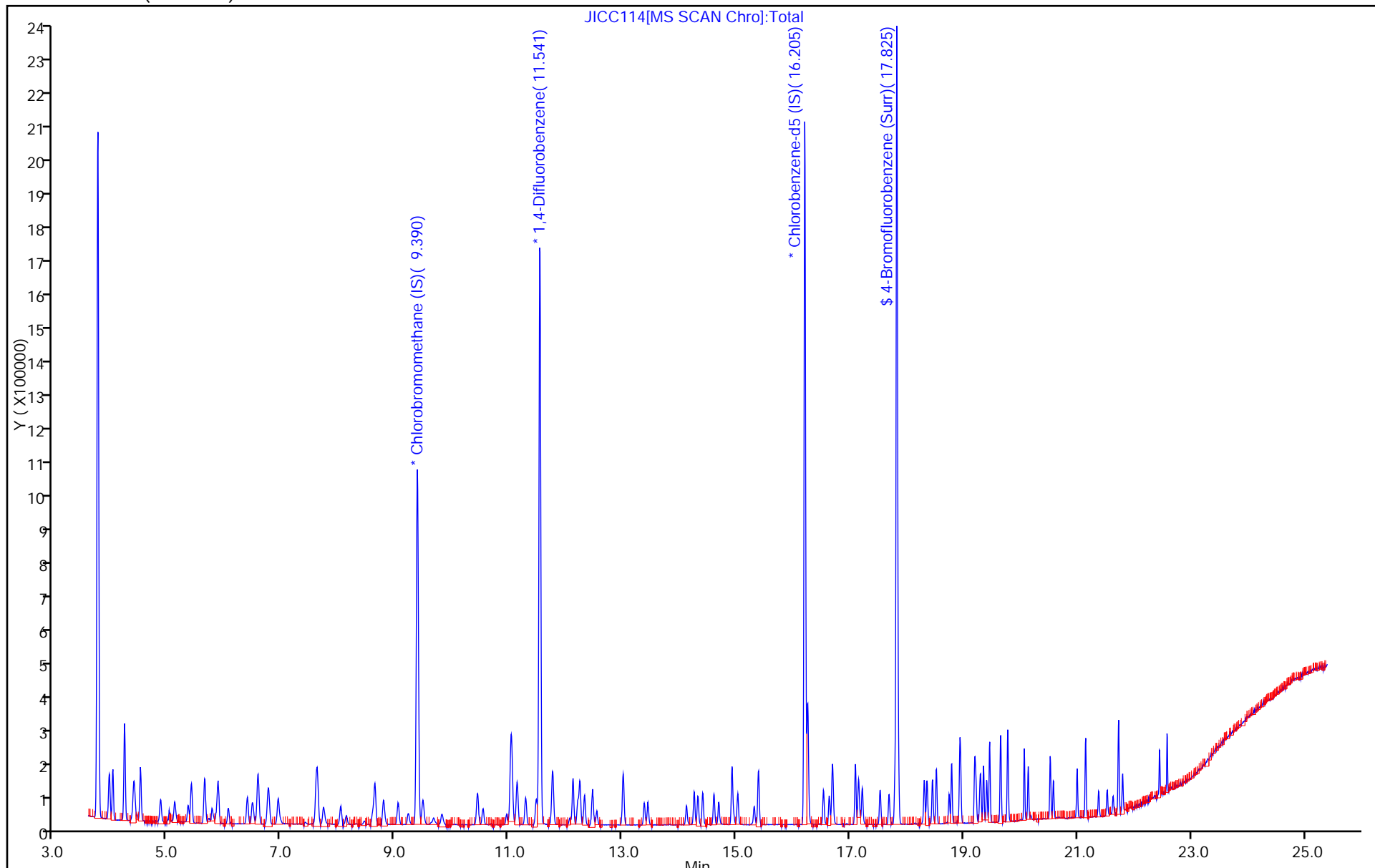
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Lims ID: IC L4

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

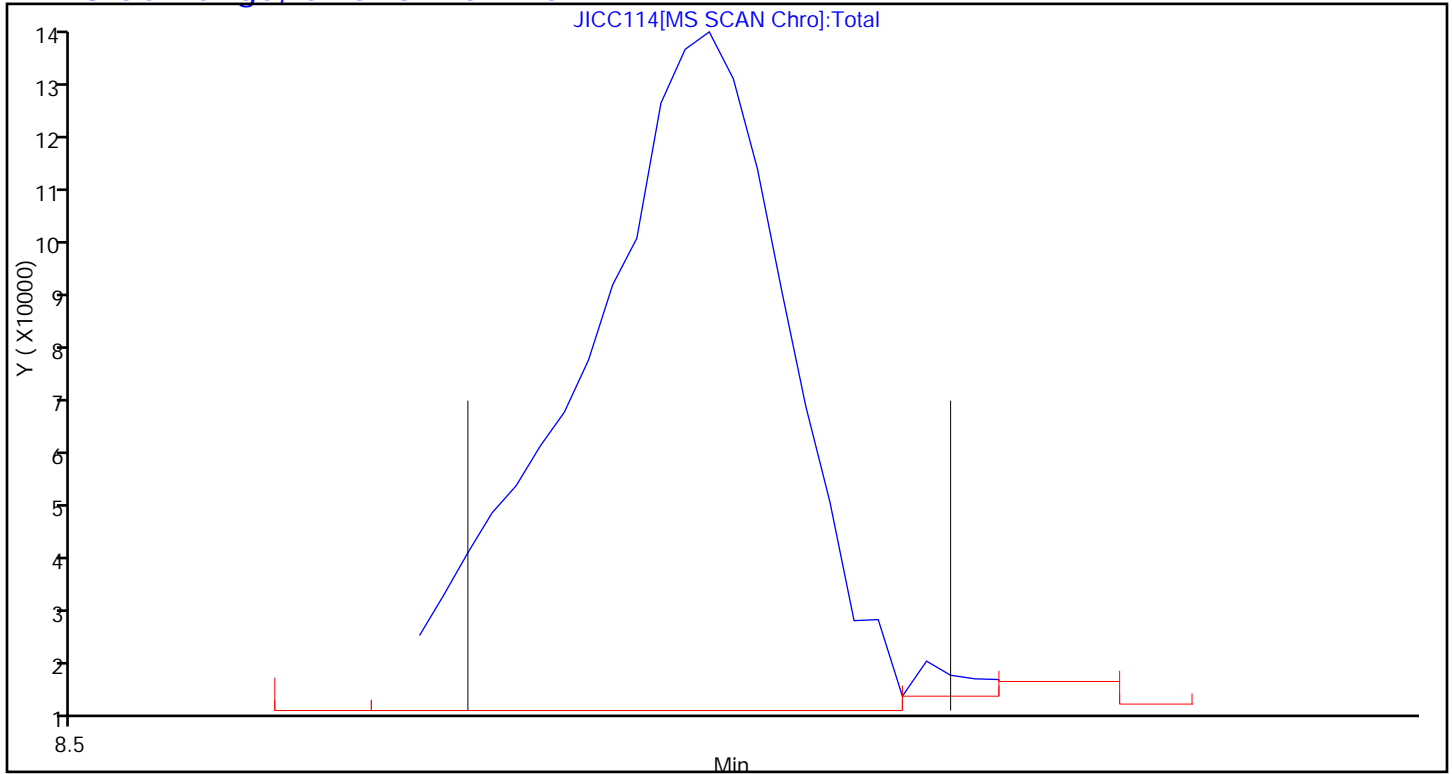
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

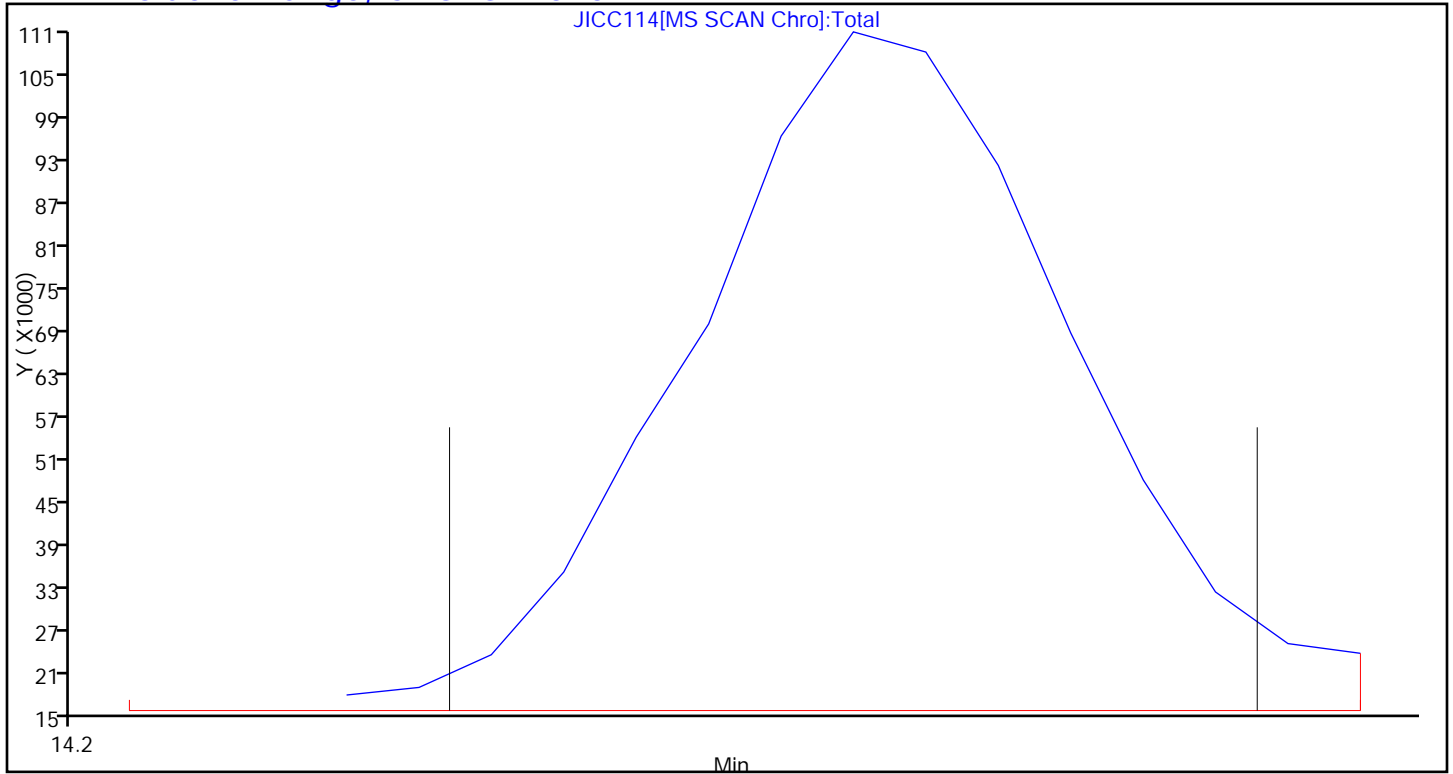
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

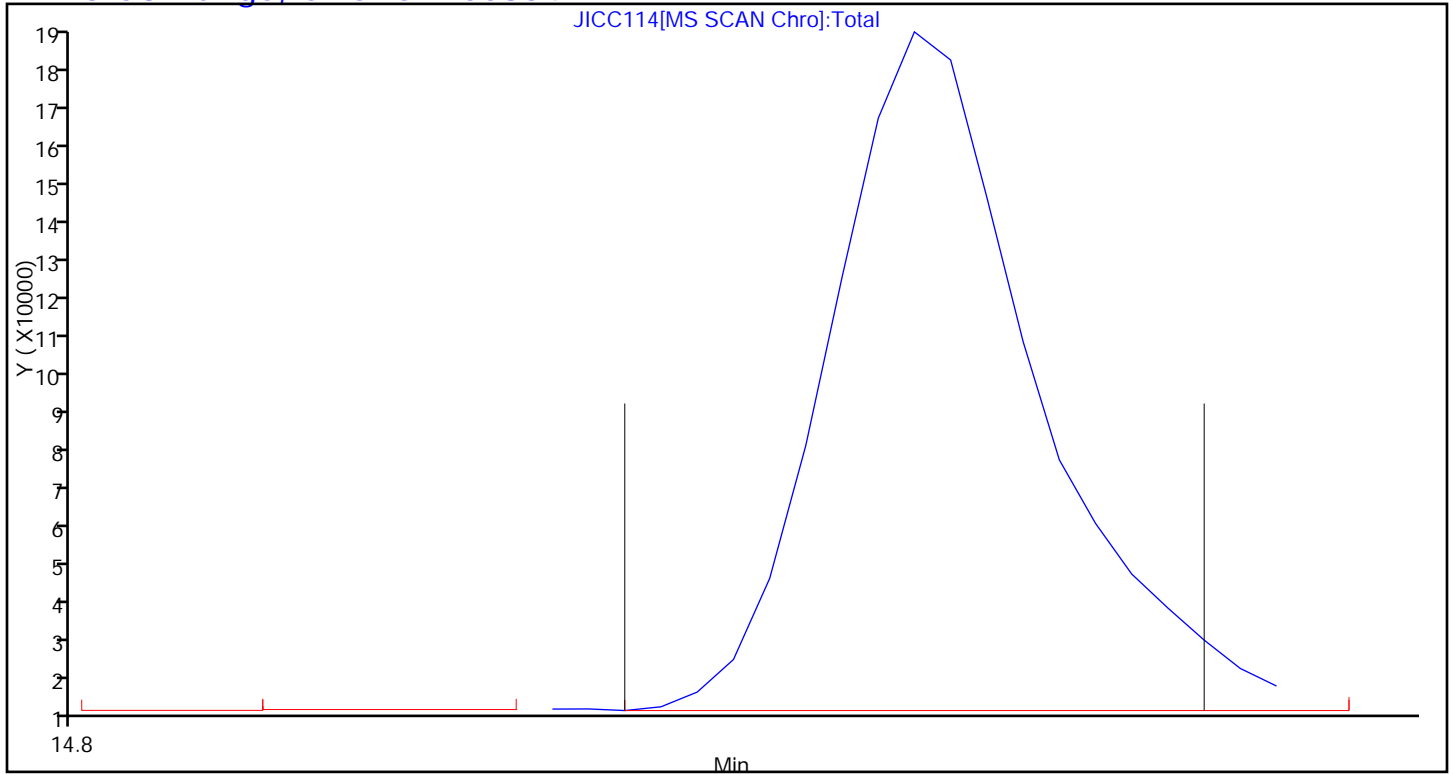
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D
 Lims ID: IC L5 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Mar-2014 16:17:30 ALS Bottle#: 11 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL5,,1,5,,ICAL 1
 Misc. Info.: J031114I,TO15,,140-0000516-006
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:15 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:15

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.392	0.001	93	350674	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	93	1674047	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1432884	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1030162	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	32729	0.9044	
7 Propene	41	3.976	3.973	0.003	99	107699	1.00	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	334566	0.9632	
9 Chloromethane	52	4.229	4.230	-0.001	98	37407	0.9480	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	91	251641	0.9599	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	194092	5.61	
12 Vinyl chloride	62	4.417	4.419	-0.002	98	125449	0.9650	
14 Butadiene	54	4.514	4.517	-0.003	90	87385	0.9674	
13 Butane	43	4.519	4.517	0.002	86	173714	0.9389	
15 Bromomethane	94	4.874	4.871	0.003	98	123346	0.9329	
16 Chloroethane	64	5.025	5.027	-0.002	98	56692	0.9479	
17 Ethanol	31	5.117	5.122	-0.005	95	144711	5.14	
18 Vinyl bromide	106	5.359	5.357	0.002	97	105872	0.9415	
19 2-Methylbutane	43	5.412	5.411	0.001	92	140258	0.9417	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	97	292818	0.9596	
21 Acrolein	56	5.649	5.650	-0.001	24	27013	0.9436	
22 Acetonitrile	40	5.719	5.720	-0.001	100	29505	0.9331	
23 Acetone	58	5.773	5.776	-0.003	85	72907	1.46	
24 Isopropyl alcohol	45	5.854	5.858	-0.004	96	127722	0.9703	
25 Pentane	72	5.886	5.884	0.002	96	18413	0.9759	
26 Ethyl ether	31	6.058	6.059	-0.001	93	94508	1.03	
27 1,1-Dichloroethene	96	6.402	6.399	0.003	97	90818	0.9225	
28 2-Methyl-2-propanol	59	6.478	6.487	-0.009	95	154458	0.9526	
29 Acrylonitrile	53	6.499	6.498	0.001	93	49792	0.9554	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	94	201012	0.9507	
31 Methylene Chloride	84	6.757	6.759	-0.002	96	89695	0.9561	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	90749	0.9300	
33 Carbon disulfide	76	6.940	6.942	-0.002	99	313388	0.9500	
34 trans-1,2-Dichloroethene	96	7.613	7.609	0.004	98	110071	0.9282	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	259682	0.9597	
36 Methyl tert-butyl ether	73	7.736	7.738	-0.002	95	180801	1.01	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	183945	0.99	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	159904	0.9863	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	35887	1.08	
40 Hexane	56	8.640	8.642	-0.002	89	89704	0.9515	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	95	100896	1.00	
42 Ethyl acetate	43	9.226	9.229	-0.003	97	144504	1.00	
43 Chloroform	83	9.404	9.403	0.001	87	200359	0.9806	
44 Tetrahydrofuran	42	9.813	9.816	-0.003	93	78446	0.9658	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	216140	1.01	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	96	125298	0.9648	
47 n-Butanol	31	10.953	10.958	-0.005	84	30453	0.8322	
48 Benzene	78	11.034	11.033	0.001	97	273136	0.9509	
49 Cyclohexane	69	11.039	11.040	-0.001	93	54874	0.9681	
50 Carbon tetrachloride	117	11.061	11.059	0.002	97	236385	1.00	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	65875	0.9721	
52 Thiophene	84	11.298	11.297	0.001	96	173039	0.9755	
53 Isooctane	57	11.771	11.771	0.0	98	474988	0.9685	
54 n-Heptane	71	12.131	12.130	0.001	93	96771	0.9527	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	95014	0.9787	
56 Trichloroethene	130	12.250	12.252	-0.002	97	128335	0.9210	
57 Dibromomethane	93	12.330	12.332	-0.002	91	121268	0.9492	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	98	190788	0.9411	
58 1,4-Dioxane	88	12.481	12.483	-0.002	87	31775	0.9134	
60 Methyl methacrylate	41	12.546	12.548	-0.002	90	82170	0.9434	
61 Methylcyclohexane	83	13.014	13.013	0.001	95	188580	0.9754	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.382	-0.003	98	163854	0.9338	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	95	131004	0.9512	
64 trans-1,3-Dichloropropene	75	14.127	14.126	0.001	98	117538	0.9899	
65 Toluene	91	14.262	14.262	0.0	93	264651	1.00	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	96	84373	1.00	
67 2-Methylthiophene	97	14.412	14.413	-0.001	98	237579	0.99	
68 3-Methylthiophene	97	14.611	14.612	-0.001	99	241139	1.01	
69 2-Hexanone	58	14.692	14.694	-0.002	92	79350	0.9114	
70 n-Octane	85	14.929	14.928	0.001	94	94899	0.9730	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	174527	0.9386	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	97	142171	0.9847	
73 Tetrachloroethene	129	15.391	15.393	-0.002	92	112818	0.9111	
75 Chlorobenzene	112	16.257	16.256	0.001	84	213586	0.9406	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	95	299289	1.02	
76 Ethylbenzene	91	16.537	16.536	0.001	98	284603	0.9693	
77 2-Ethylthiophene	97	16.639	16.638	0.001	97	225682	0.9808	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	437938	1.85	
79 n-Nonane	57	17.097	17.098	-0.001	93	182421	0.9895	
81 Bromoform	173	17.150	17.149	0.001	93	134430	0.9151	
80 Styrene	104	17.156	17.157	-0.001	98	156161	0.9598	
82 o-Xylene	91	17.220	17.220	0.0	96	232024	0.9661	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	99	183648	0.9358	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	97	43710	0.9288	
85 Isopropylbenzene	105	17.791	17.793	-0.002	96	322210	0.9415	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	81294	0.9008	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	97	86903	0.9227	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	98	291767	0.9142	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	92	140307	0.8745	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	84	104233	0.9066	
91 n-Decane	57	18.791	18.793	-0.002	88	192549	0.9800	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	276681	0.8830	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	95	247215	0.8884	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	371473	0.9095	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	98	150681	0.8238	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	171797	0.8266	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	93	135286	0.7947	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	295742	0.9032	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	207460	0.9149	
100 Butylcyclohexane	83	19.458	19.460	-0.002	93	250533	0.9680	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	223109	0.8775	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	148540	0.8303	
103 n-Butylbenzene	91	19.776	19.777	-0.001	96	267179	0.8794	
104 Indene	116	19.781	19.781	0.0	85	196085	0.8826	
105 Undecane	57	20.066	20.068	-0.002	96	175793	0.8882	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	268427	0.8743	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	97	282429	0.9156	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	94	177582	0.8820	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	97	222908	0.8936	
110 Dodecane	57	21.147	21.148	-0.001	94	185701	0.9061	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	66621	0.8371	
112 Naphthalene	128	21.529	21.527	0.002	99	186491	0.8271	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	98	119182	0.7801	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	84	136244	0.8378	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	95	87992	0.8556	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	99	149184	6.22	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	164584	6.66	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	244016	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	95	220627	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	81	203973	NR	
A 118 C6 Range	1	8.640	8.581 -	8.699	0	1022928	1.00	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	633377	0.9777	
A 123 C8 Range	1	14.934	14.886 -	14.983	0	997149	0.99	
S 124 Xylenes, Total	100				0		2.81	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L5

Lab Sample ID:

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

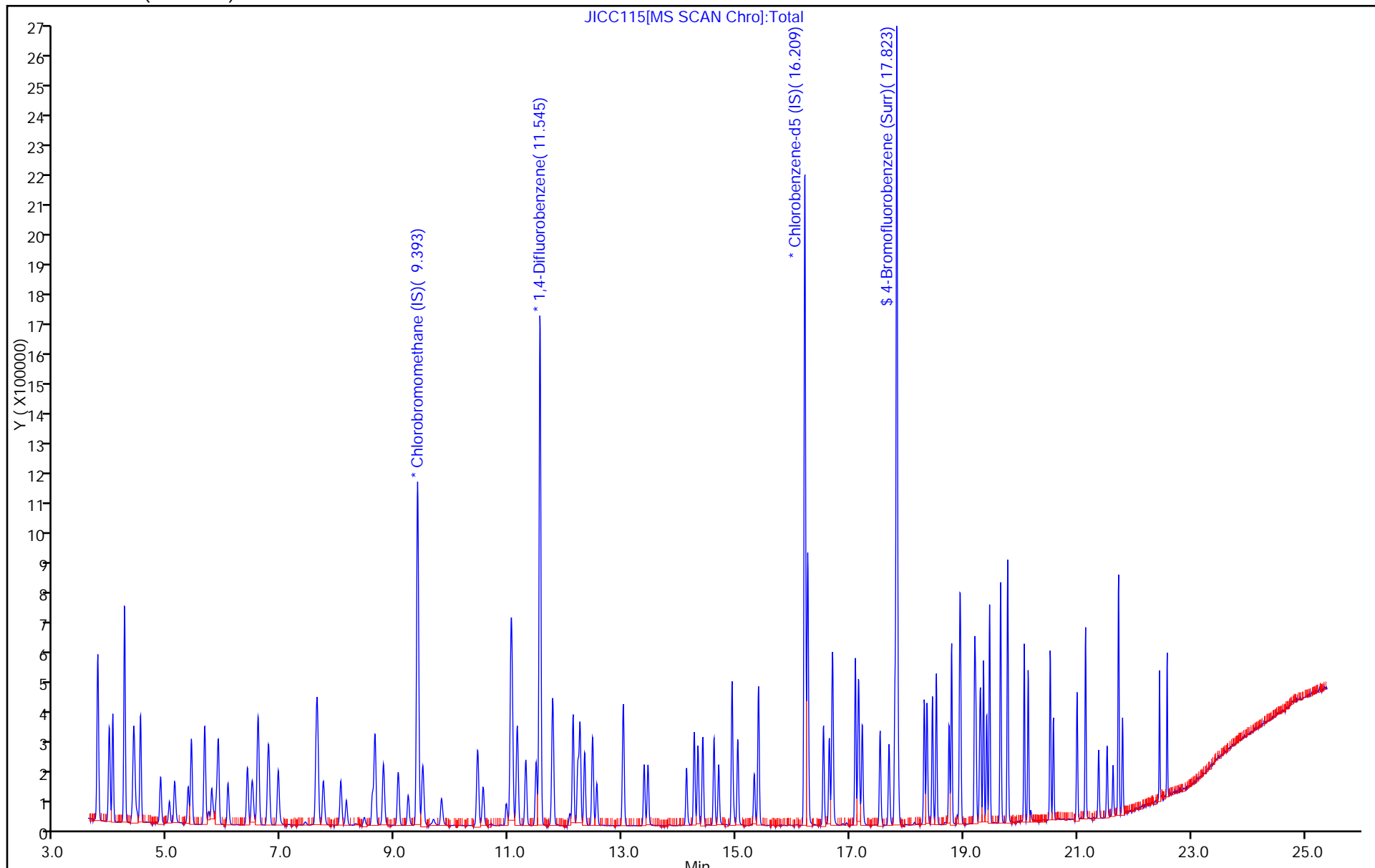
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

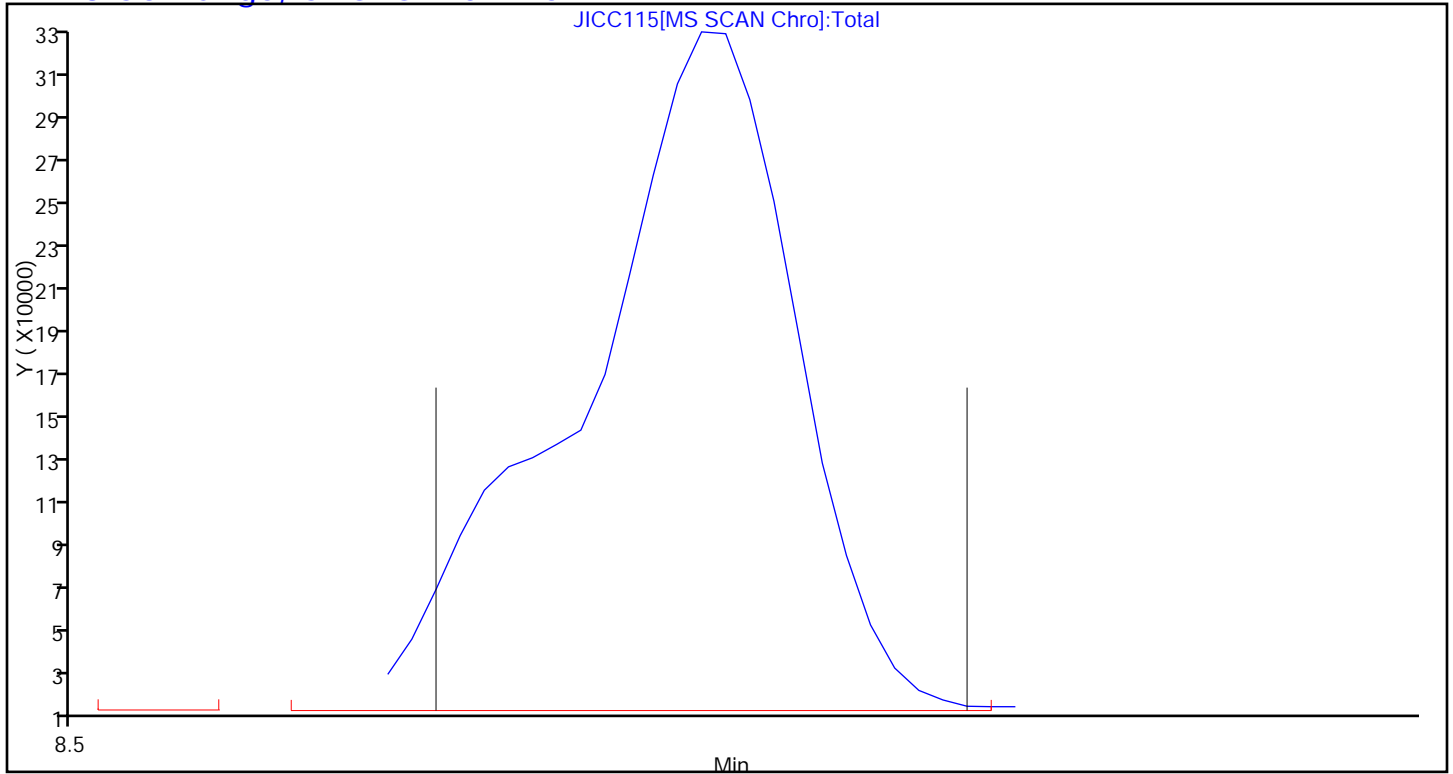
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

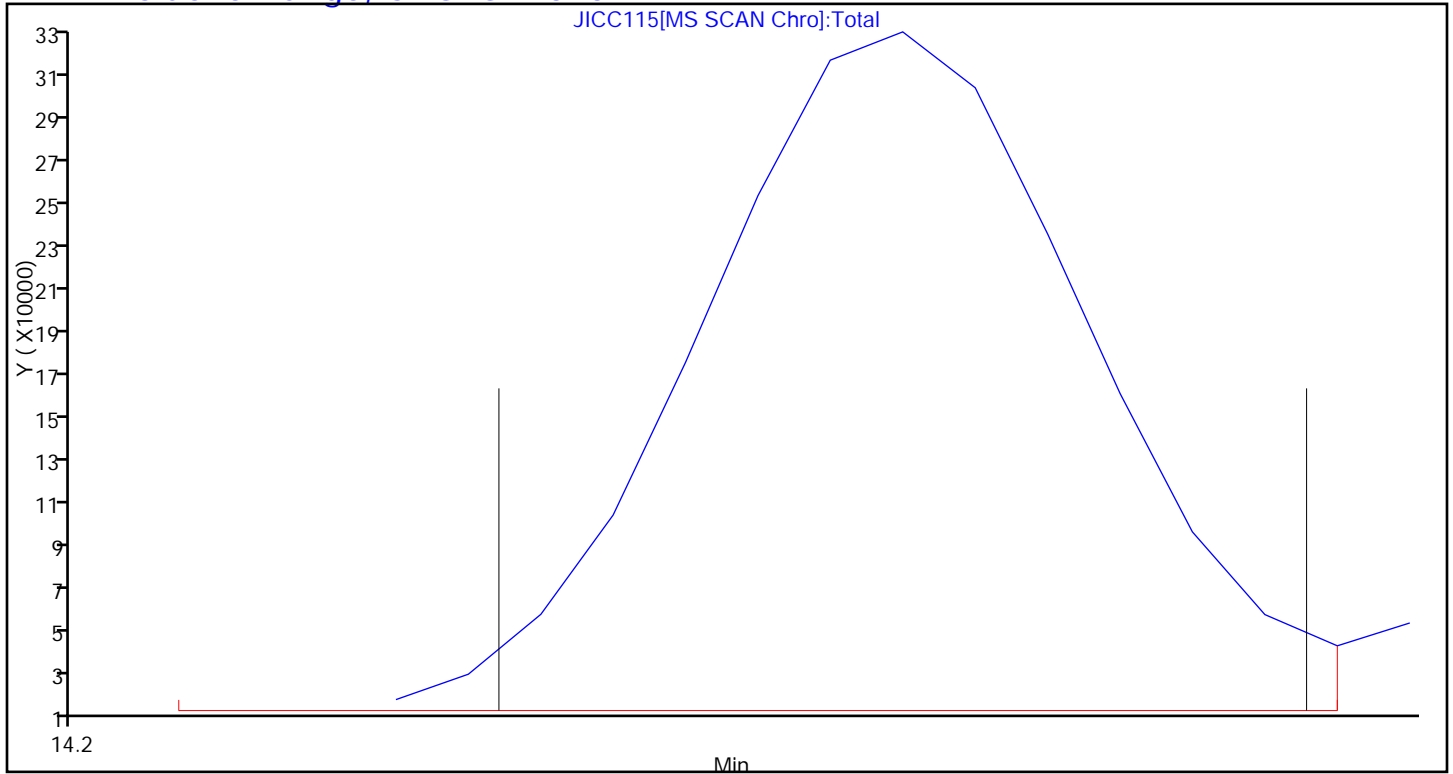
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30 Instrument ID: MJ

Lims ID: IC L5 Lab Sample ID:

Client ID:

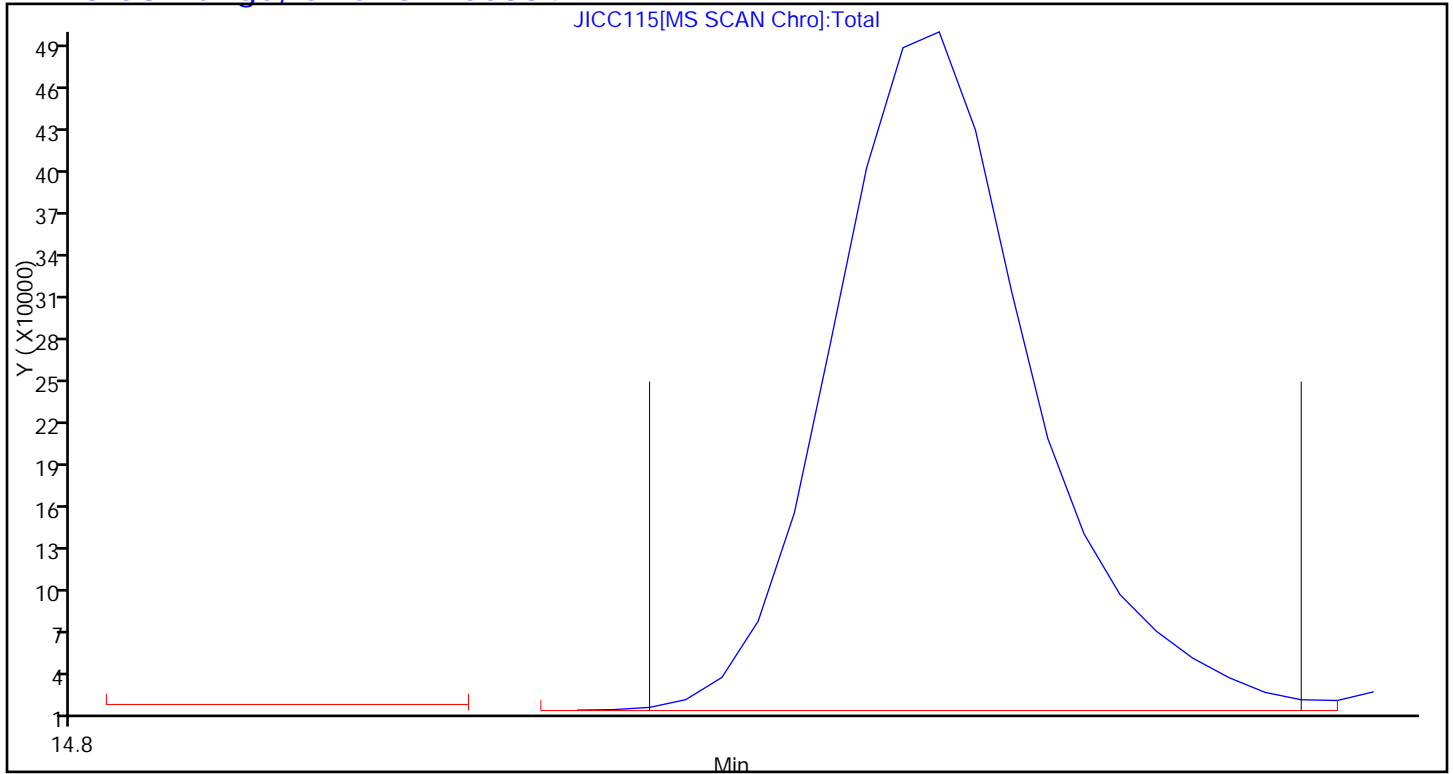
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D
 Lims ID: ICIS L6 Lab Sample ID:
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 11-Mar-2014 17:11:30 ALS Bottle#: 12 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL6,,1,6,,ICAL 2
 Misc. Info.: J031114I,TO15,,140-0000516-007
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:47:02 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.392	0.002	92	351204	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	92	1664083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1450172	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	89	1040623	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	65895	1.82	
7 Propene	41	3.971	3.973	-0.002	99	203864	1.89	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	677907	1.95	
9 Chloromethane	52	4.229	4.230	-0.001	98	75510	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	92	515628	1.96	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	339724	9.80	
12 Vinyl chloride	62	4.418	4.419	-0.001	99	254791	1.96	
14 Butadiene	54	4.514	4.517	-0.003	66	175277	1.94	
13 Butane	43	4.514	4.517	-0.003	86	348021	1.88	
15 Bromomethane	94	4.869	4.871	-0.002	99	250854	1.89	
16 Chloroethane	64	5.025	5.027	-0.002	100	113435	1.89	
17 Ethanol	31	5.117	5.122	-0.005	95	281128	9.97	
18 Vinyl bromide	106	5.354	5.357	-0.003	97	216421	1.92	
19 2-Methylbutane	43	5.413	5.411	0.002	92	280290	1.88	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	98	594264	1.94	
21 Acrolein	56	5.649	5.650	-0.001	68	53042	1.85	
22 Acetonitrile	40	5.714	5.720	-0.006	100	59141	1.87	
23 Acetone	58	5.773	5.776	-0.003	85	101503	2.03	
24 Isopropyl alcohol	45	5.849	5.858	-0.009	94	252925	1.92	
25 Pentane	72	5.886	5.884	0.002	97	37045	1.96	
26 Ethyl ether	31	6.053	6.059	-0.006	93	179455	1.95	
27 1,1-Dichloroethene	96	6.397	6.399	-0.002	97	184446	1.87	
28 2-Methyl-2-propanol	59	6.473	6.487	-0.014	95	272663	1.68	
29 Acrylonitrile	53	6.494	6.498	-0.004	95	99812	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.586	6.586	0.0	95	409082	1.93	
31 Methylene Chloride	84	6.758	6.759	-0.001	95	180581	1.92	
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	183622	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.941	6.942	-0.001	99	641989	1.94	
34 trans-1,2-Dichloroethene	96	7.608	7.609	-0.001	98	225627	1.90	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	522389	1.93	
36 Methyl tert-butyl ether	73	7.731	7.738	-0.007	96	356577	1.99	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	362051	1.95	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	322885	1.99	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	69610	2.09	
40 Hexane	56	8.640	8.642	-0.002	90	180662	1.91	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	95	200551	1.98	
42 Ethyl acetate	43	9.227	9.229	-0.002	97	292814	2.02	
43 Chloroform	83	9.404	9.403	0.001	96	388598	1.90	
44 Tetrahydrofuran	42	9.808	9.816	-0.008	94	156408	1.92	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	422225	1.98	
46 1,2-Dichloroethane	62	10.545	10.547	-0.002	95	248475	1.92	
47 n-Butanol	31	10.948	10.958	-0.010	88	63073	1.73	
48 Benzene	78	11.034	11.033	0.001	97	540059	1.89	
49 Cyclohexane	69	11.040	11.040	0.0	92	110363	1.96	
50 Carbon tetrachloride	117	11.061	11.059	0.002	96	443845	1.88	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	127368	1.89	
52 Thiophene	84	11.298	11.297	0.001	96	339429	1.93	
53 Isooctane	57	11.771	11.771	0.0	98	916367	1.88	
54 n-Heptane	71	12.132	12.130	0.002	92	191563	1.90	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	187039	1.94	
56 Trichloroethene	130	12.250	12.252	-0.002	93	255418	1.84	
57 Dibromomethane	93	12.331	12.332	-0.001	91	238917	1.88	
59 Dichlorobromomethane	83	12.471	12.472	-0.001	99	383587	1.90	
58 1,4-Dioxane	88	12.476	12.483	-0.007	85	63279	1.83	
60 Methyl methacrylate	41	12.546	12.548	-0.002	91	169117	1.95	
61 Methylcyclohexane	83	13.014	13.013	0.001	96	363492	1.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.382	-0.002	98	336876	1.93	
63 cis-1,3-Dichloropropene	75	13.450	13.448	0.002	94	261947	1.91	
64 trans-1,3-Dichloropropene	75	14.128	14.126	0.002	98	234824	1.95	
65 Toluene	91	14.262	14.262	0.0	94	519669	1.93	
66 1,1,2-Trichloroethane	83	14.327	14.328	-0.001	97	166783	1.96	
67 2-Methylthiophene	97	14.413	14.413	0.0	98	477759	1.98	
68 3-Methylthiophene	97	14.612	14.612	0.0	99	476584	1.97	
69 2-Hexanone	58	14.692	14.694	-0.002	93	161365	1.83	
70 n-Octane	85	14.929	14.928	0.001	94	185219	1.88	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	362439	1.93	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	98	283094	1.94	
73 Tetrachloroethene	129	15.392	15.393	-0.001	92	226667	1.81	
75 Chlorobenzene	112	16.258	16.256	0.002	87	423684	1.84	
74 2,3-Dimethylheptane	43	16.258	16.260	-0.002	95	563663	1.90	
76 Ethylbenzene	91	16.538	16.536	0.002	98	566249	1.91	
77 2-Ethylthiophene	97	16.640	16.638	0.002	97	450374	1.93	
78 m-Xylene & p-Xylene	91	16.694	16.696	-0.002	100	877038	3.66	
79 n-Nonane	57	17.097	17.098	-0.001	93	359753	1.93	
81 Bromoform	173	17.151	17.149	0.002	94	285787	1.92	
80 Styrene	104	17.156	17.157	-0.001	98	329540	2.00	
82 o-Xylene	91	17.221	17.220	0.001	96	451038	1.86	
83 1,1,2,2-Tetrachloroethane	83	17.533	17.534	-0.001	99	370844	1.87	
84 1,2,3-Trichloropropane	110	17.689	17.690	-0.001	97	88416	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.791	17.793	-0.002	97	640978	1.85	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	169743	1.86	
87 2-Chlorotoluene	126	18.356	18.357	-0.001	97	172536	1.81	
88 4-Ethyltoluene	105	18.453	18.454	-0.001	97	602615	1.87	
89 1,3,5-Trimethylbenzene	120	18.523	18.524	-0.001	92	288648	1.78	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	85	232501	2.00	
91 n-Decane	57	18.792	18.793	-0.001	89	383736	1.93	
92 tert-Butylbenzene	119	18.937	18.937	0.0	87	563181	1.78	
93 1,2,4-Trimethylbenzene	105	18.948	18.949	-0.001	95	510168	1.81	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	753094	1.82	
95 1,3-Dichlorobenzene	146	19.217	19.217	-0.001	99	312974	1.69	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	376583	1.79	
97 1,4-Dichlorobenzene	146	19.303	19.302	0.001	94	286084	1.66	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	611347	1.84	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	421832	1.84	
100 Butylcyclohexane	83	19.459	19.460	-0.001	93	480940	1.84	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	462728	1.80	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	80	310746	1.72	
103 n-Butylbenzene	91	19.776	19.777	-0.001	97	566214	1.84	
104 Indene	116	19.781	19.781	0.0	86	427230	1.90	
105 Undecane	57	20.066	20.068	-0.002	96	366563	1.83	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	564256	1.82	
108 1,2,4,5-Tetramethylbenzene	119	20.524	20.525	-0.001	96	585097	1.87	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	95	360803	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	96	458134	1.81	
110 Dodecane	57	21.148	21.148	0.0	95	378646	1.83	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	143447	1.78	
112 Naphthalene	128	21.524	21.527	-0.003	99	394479	1.73	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	99	259843	1.68	
114 Hexachlorobutadiene	225	21.729	21.729	0.0	84	268985	1.63	
115 1,2,3-Trichlorobenzene	180	21.799	21.800	-0.001	95	178007	1.71	
116 2-Methylnaphthalene	142	22.450	22.449	0.001	98	307709	12.7	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	331073	13.2	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	479467	NR	
142 Tert-butyl ethyl ether	59	9.480	9.487	-0.007	95	438027	NR	
140 Tert-amyl methyl ether	73	11.475	11.482	-0.007	92	413190	NR	
A 118 C6 Range	1	8.640	8.571 - 8.710		0	2011864	1.96	
A 122 Toluene Range	1	14.262	14.232 - 14.292		0	1258419	1.92	
A 123 C8 Range	1	14.927	14.881 - 14.988		0	1829147	1.80	
S 124 Xylenes, Total	100				0		5.51	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICIS L6

Lab Sample ID:

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

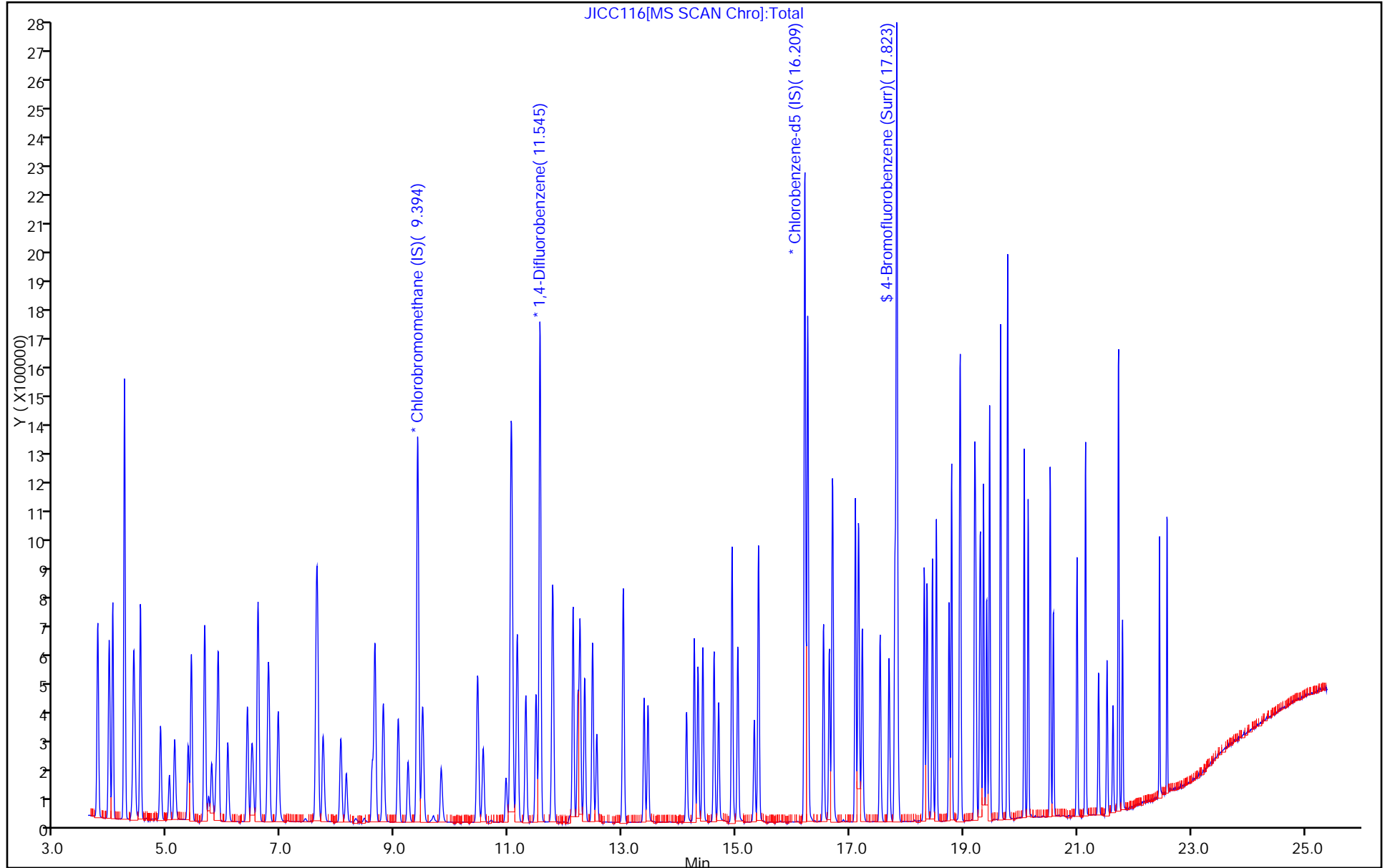
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

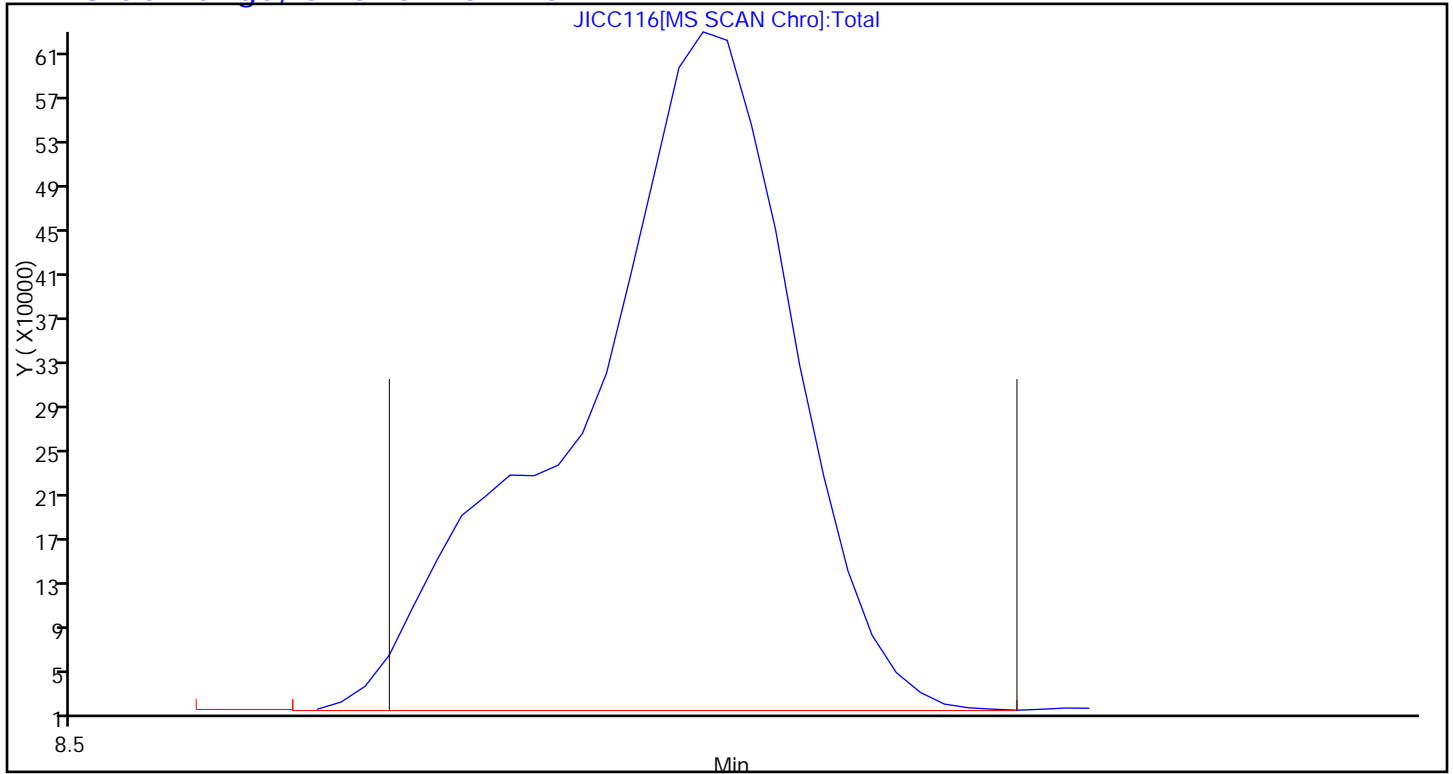
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

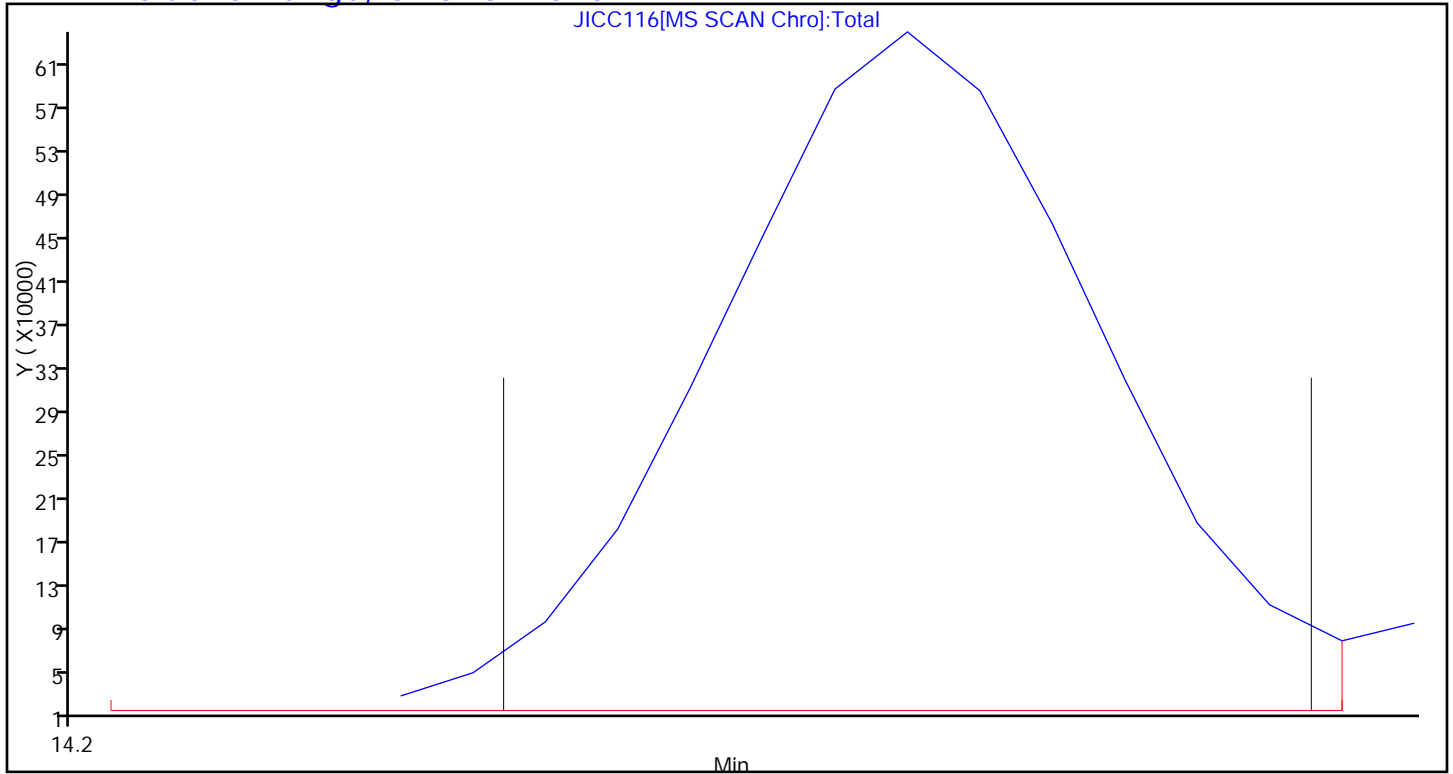
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

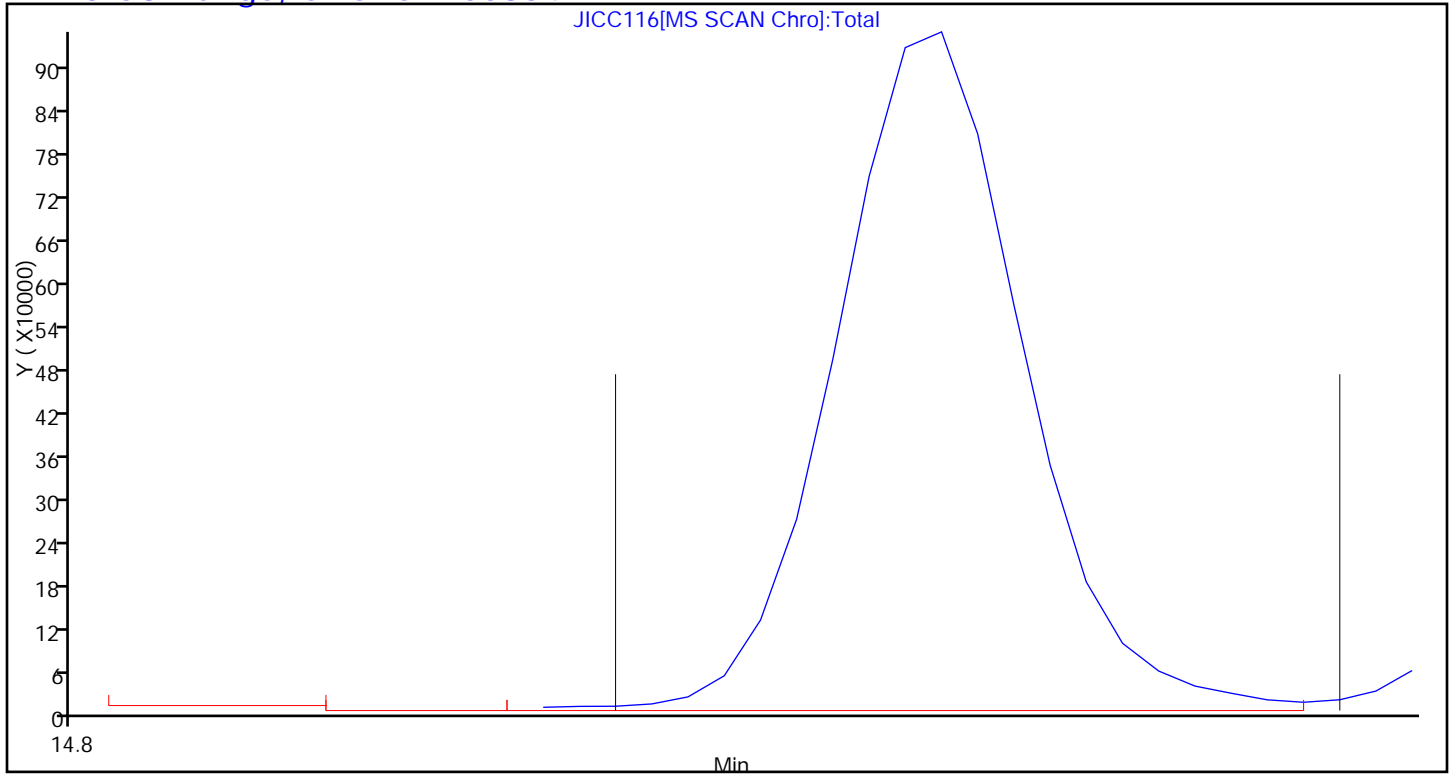
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D
 Lims ID: IC L7 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Mar-2014 18:06:30 ALS Bottle#: 13 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL7,,1,7,,ICAL 4
 Misc. Info.: J031114I,TO15,,140-0000516-008
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.391	9.392	-0.001	93	348015	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	92	1571787	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1348573	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.826	17.825	0.001	89	982151	4.12	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	127336	3.55	
7 Propene	41	3.973	3.973	0.0	99	380299	3.56	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	1288306	3.74	
9 Chloromethane	52	4.232	4.230	0.002	99	142083	3.63	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	1010496	3.88	
11 Acetaldehyde	44	4.398	4.398	0.0	98	590590	17.2	
12 Vinyl chloride	62	4.420	4.419	0.001	99	481131	3.73	
14 Butadiene	54	4.517	4.517	0.0	66	332507	3.71	
13 Butane	43	4.517	4.517	0.0	85	651614	3.55	
15 Bromomethane	94	4.872	4.871	0.001	99	483336	3.68	
16 Chloroethane	64	5.028	5.027	0.001	99	220811	3.72	
17 Ethanol	31	5.119	5.122	-0.003	95	536616	19.2	
18 Vinyl bromide	106	5.356	5.357	-0.001	97	427699	3.83	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	537867	3.64	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	97	1161422	3.84	
21 Acrolein	56	5.646	5.650	-0.004	24	99357	3.50	
22 Acetonitrile	40	5.716	5.720	-0.004	99	106520	3.39	
23 Acetone	58	5.770	5.776	-0.006	91	119169	2.41	
24 Isopropyl alcohol	45	5.851	5.858	-0.007	98	503623	3.86	
25 Pentane	72	5.883	5.884	-0.001	98	73196	3.91	
26 Ethyl ether	31	6.050	6.059	-0.009	94	329259	3.62	
27 1,1-Dichloroethene	96	6.400	6.399	0.001	98	372110	3.81	
28 2-Methyl-2-propanol	59	6.475	6.487	-0.012	94	583041	3.62	
29 Acrylonitrile	53	6.496	6.498	-0.002	93	192415	3.72	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	95	813723	3.88	
31 Methylene Chloride	84	6.760	6.759	0.001	95	352418	3.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	92	355060	3.67	
33 Carbon disulfide	76	6.943	6.942	0.001	99	1258326	3.84	
34 trans-1,2-Dichloroethene	96	7.610	7.609	0.001	99	451426	3.84	
35 2-Methylpentane	43	7.631	7.631	0.0	95	1006835	3.75	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	673998	3.79	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	703411	3.83	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	596834	3.71	
39 2-Butanone (MEK)	72	8.594	8.601	-0.007	100	125222	3.80	
40 Hexane	56	8.643	8.642	0.001	88	346825	3.71	
41 cis-1,2-Dichloroethene	96	9.052	9.052	0.0	94	388357	3.87	
42 Ethyl acetate	43	9.224	9.229	-0.005	99	549427	3.83	
43 Chloroform	83	9.401	9.403	-0.002	96	755016	3.72	
44 Tetrahydrofuran	42	9.805	9.816	-0.011	94	291715	3.62	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	807351	3.82	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	96	473508	3.88	
47 n-Butanol	31	10.945	10.958	-0.013	89	133536	3.89	
48 Benzene	78	11.031	11.033	-0.002	97	1059675	3.93	
49 Cyclohexane	69	11.042	11.040	0.002	93	212371	3.99	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	99	893077	4.01	
51 2,3-Dimethylpentane	71	11.150	11.148	0.002	91	243353	3.82	
52 Thiophene	84	11.300	11.297	0.003	96	650293	3.90	
53 Isooctane	57	11.774	11.771	0.003	98	1747868	3.80	
54 n-Heptane	71	12.129	12.130	-0.001	92	367648	3.85	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	85	352739	3.87	
56 Trichloroethene	130	12.252	12.252	0.0	93	487687	3.73	
57 Dibromomethane	93	12.333	12.332	0.001	92	456395	3.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	749991	3.94	
58 1,4-Dioxane	88	12.473	12.483	-0.010	37	131505	4.03	
60 Methyl methacrylate	41	12.548	12.548	0.0	91	333332	4.08	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	683968	3.77	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	661355	4.01	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	94	507092	3.92	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	97	446194	3.99	
65 Toluene	91	14.264	14.262	0.002	94	985546	3.94	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	313466	3.95	
67 2-Methylthiophene	97	14.415	14.413	0.002	97	895031	3.98	
68 3-Methylthiophene	97	14.614	14.612	0.002	99	900038	3.99	
69 2-Hexanone	58	14.689	14.694	-0.005	93	329061	4.02	
70 n-Octane	85	14.926	14.928	-0.002	93	363887	3.96	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	735197	4.20	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	539062	3.97	
73 Tetrachloroethene	129	15.394	15.393	0.001	93	437989	3.76	
75 Chlorobenzene	112	16.255	16.256	-0.001	94	827157	3.87	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	94	1076318	3.91	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	1067867	3.86	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	98	856076	3.95	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	99	1665289	7.47	
79 n-Nonane	57	17.099	17.098	0.001	92	701033	4.04	
81 Bromoform	173	17.148	17.149	-0.001	94	603733	4.37	
80 Styrene	104	17.158	17.157	0.001	97	638753	4.17	
82 o-Xylene	91	17.218	17.220	-0.002	96	854151	3.78	
83 1,1,2,2-Tetrachloroethane	83	17.535	17.534	0.001	99	731970	3.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	174026	3.93	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	1246662	3.87	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	337130	3.97	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	335960	3.79	
88 4-Ethyltoluene	105	18.455	18.454	0.001	97	1212360	4.04	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	93	586616	3.89	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	86	498439	4.61	
91 n-Decane	57	18.794	18.793	0.001	89	760833	4.11	
92 tert-Butylbenzene	119	18.939	18.937	0.002	88	1160846	3.94	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	94	1046672	4.00	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	1534847	3.99	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	649208	3.77	
96 Benzyl chloride	91	19.289	19.288	0.001	98	804987	4.12	
97 1,4-Dichlorobenzene	146	19.300	19.302	-0.002	94	593980	3.71	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	1253285	4.07	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	842178	3.95	
100 Butylcyclohexane	83	19.461	19.460	0.001	94	943677	3.87	
101 2,3-Dihydroindene	117	19.655	19.653	0.002	89	948230	3.96	
102 1,2-Dichlorobenzene	146	19.655	19.653	0.002	82	646950	3.84	
103 n-Butylbenzene	91	19.778	19.777	0.001	97	1183694	4.14	
104 Indene	116	19.778	19.781	-0.003	86	918630	4.39	
105 Undecane	57	20.069	20.068	0.001	96	752219	4.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	96	1174726	4.07	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	1242657	4.28	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	763734	4.03	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	97	969881	4.13	
110 Dodecane	57	21.145	21.148	-0.003	95	748275	3.88	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	317385	4.24	
112 Naphthalene	128	21.527	21.527	0.0	99	840765	3.96	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	569891	3.96	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	564546	3.69	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	366981	3.79	
116 2-Methylnaphthalene	142	22.447	22.449	-0.003	96	634411	28.1	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	631891	27.2	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	915837	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	861034	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	88	814994	NR	
A 118 C6 Range	1	8.643	8.573 - 8.713		0	3810714	3.75	
A 122 Toluene Range	1	14.264	14.234 - 14.294		0	2348373	3.85	
A 123 C8 Range	1	14.926	14.878 - 14.974		0	3391784	3.59	
S 124 Xylenes, Total	100				0		11.2	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L7

Lab Sample ID:

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

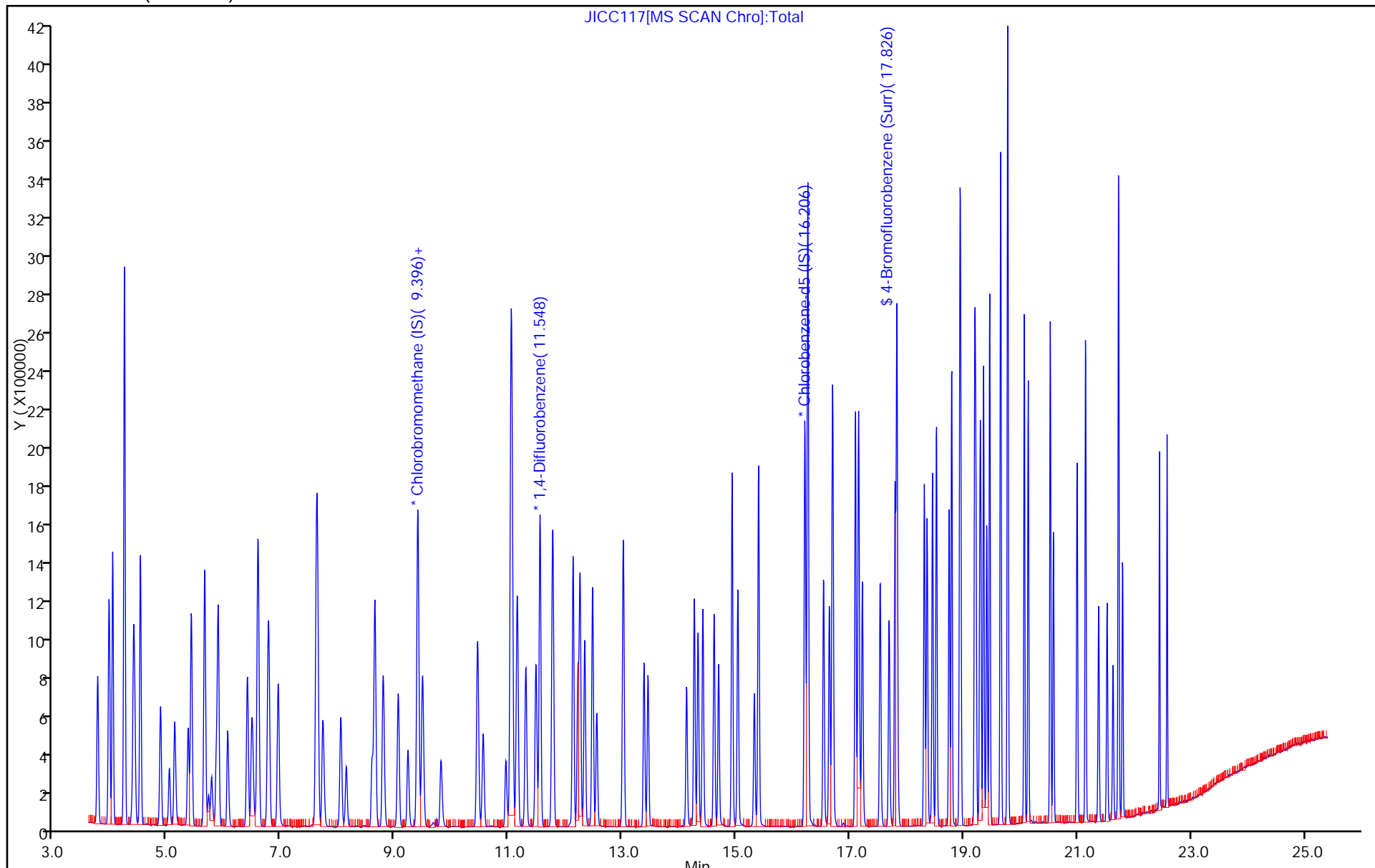
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

Client ID:

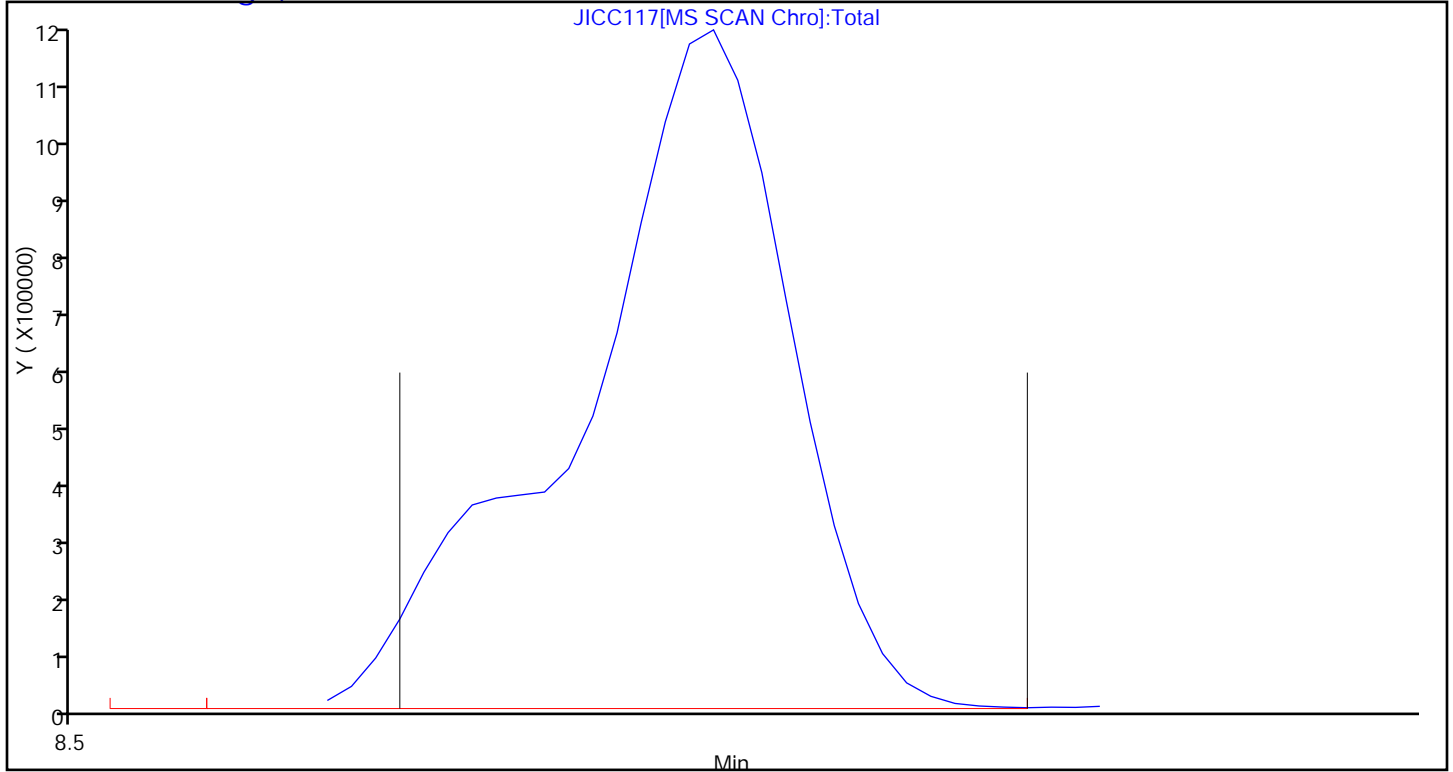
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

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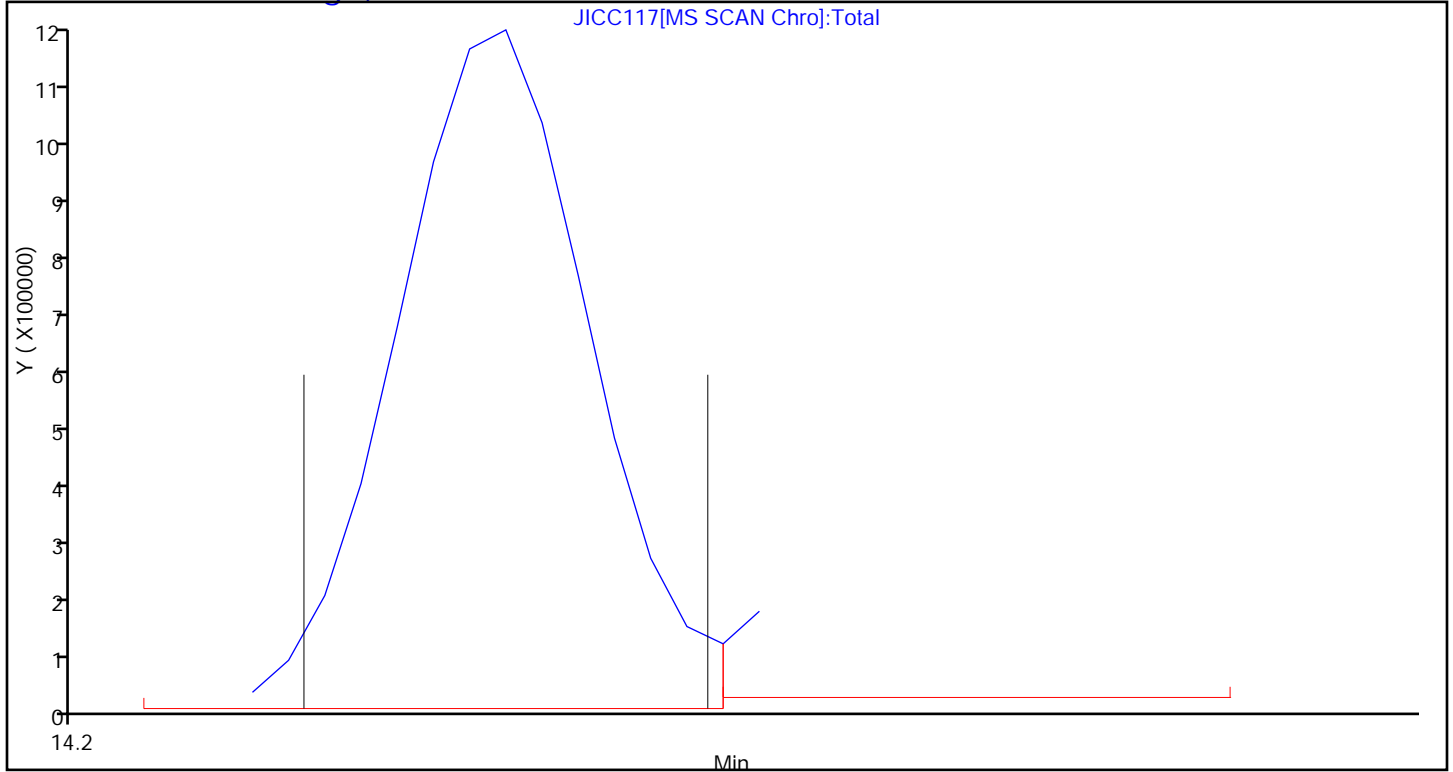
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

Client ID:

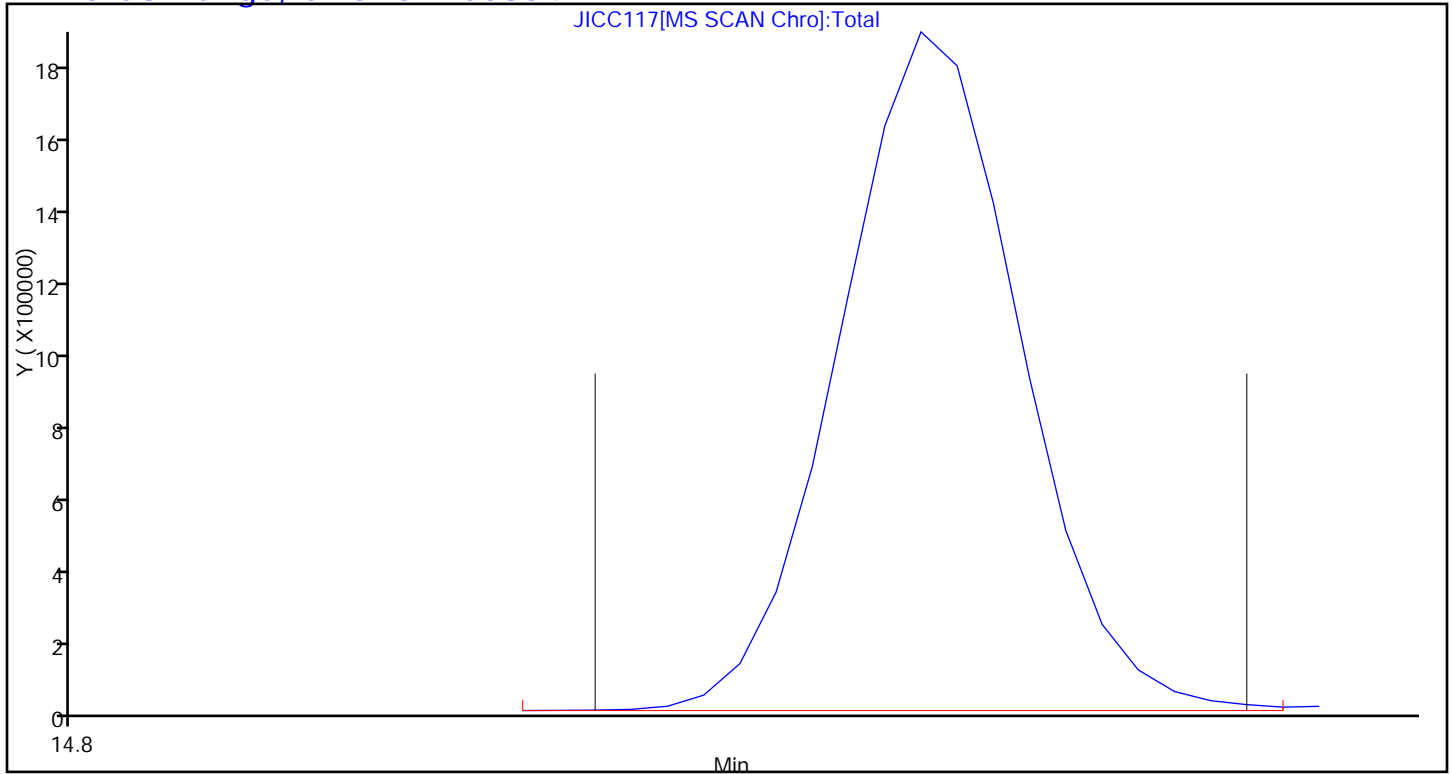
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D
 Lims ID: IC L8 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Mar-2014 19:02:30 ALS Bottle#: 14 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL8,,1,8,,ICAL 8
 Misc. Info.: J031114I,TO15,,140-0000516-009
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:50 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.397	9.392	0.005	91	318482	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.547	0.002	92	1412691	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1299560	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.825	0.002	89	938909	4.08	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	97	267278	8.13	
7 Propene	41	3.969	3.973	-0.004	99	770175	7.89	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	99	2653935	8.41	
9 Chloromethane	52	4.228	4.230	-0.002	98	285173	7.96	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.238	4.238	0.0	88	2110535	8.86	
11 Acetaldehyde	44	4.400	4.398	0.002	96	1285979	40.9	
12 Vinyl chloride	62	4.416	4.419	-0.003	99	984783	8.34	
14 Butadiene	54	4.518	4.517	0.001	68	680934	8.30	
13 Butane	43	4.518	4.517	0.001	85	1303426	7.76	
15 Bromomethane	94	4.873	4.871	0.002	99	1011303	8.42	
16 Chloroethane	64	5.029	5.027	0.002	99	455037	8.38	
17 Ethanol	31	5.126	5.122	0.004	94	988374	38.7	
18 Vinyl bromide	106	5.357	5.357	0.0	98	901463	8.83	
19 2-Methylbutane	43	5.411	5.411	0.0	92	1083786	8.01	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	99	2393900	8.64	
21 Acrolein	56	5.648	5.650	-0.002	51	250642	9.64	
22 Acetonitrile	40	5.718	5.720	-0.002	99	251140	8.75	
23 Acetone	58	5.772	5.776	-0.004	77	235590	5.20	
24 Isopropyl alcohol	45	5.858	5.858	0.0	98	1005537	8.41	
25 Pentane	72	5.884	5.884	0.0	98	151771	8.86	
26 Ethyl ether	31	6.051	6.059	-0.008	94	699710	8.40	
27 1,1-Dichloroethene	96	6.401	6.399	0.002	98	763429	8.54	
28 2-Methyl-2-propanol	59	6.482	6.487	-0.005	94	1230118	8.35	
29 Acrylonitrile	53	6.498	6.498	0.0	92	432058	9.13	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	96	1646524	8.57	
31 Methylene Chloride	84	6.761	6.759	0.002	94	670417	7.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.783	6.778	0.005	94	664240	7.49	
33 Carbon disulfide	76	6.944	6.942	0.002	99	2556516	8.53	
34 trans-1,2-Dichloroethene	96	7.611	7.609	0.002	99	850575	7.90	
35 2-Methylpentane	43	7.633	7.631	0.002	96	1918287	7.81	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	1374295	8.45	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	100	1269839	7.56	
38 Vinyl acetate	43	8.138	8.141	-0.003	100	1340341	9.10	
39 2-Butanone (MEK)	72	8.596	8.601	-0.005	100	243895	8.09	
40 Hexane	56	8.644	8.642	0.002	90	651848	7.61	
41 cis-1,2-Dichloroethene	96	9.053	9.052	0.001	94	706076	7.68	
42 Ethyl acetate	43	9.225	9.229	-0.004	99	1084225	8.26	
43 Chloroform	83	9.408	9.403	0.005	97	1379316	7.43	
44 Tetrahydrofuran	42	9.806	9.816	-0.010	93	599765	8.13	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	1426505	7.38	
46 1,2-Dichloroethane	62	10.548	10.547	0.001	96	840072	7.67	
47 n-Butanol	31	10.947	10.958	-0.011	86	287181	9.30	
48 Benzene	78	11.033	11.033	0.0	97	1886757	7.78	
49 Cyclohexane	69	11.043	11.040	0.003	90	372992	7.80	
50 Carbon tetrachloride	117	11.060	11.059	0.001	99	1616119	8.07	
51 2,3-Dimethylpentane	71	11.151	11.148	0.003	92	450381	7.88	
52 Thiophene	84	11.302	11.297	0.005	96	1166754	7.79	
53 Isooctane	57	11.775	11.771	0.004	98	3277019	7.92	
54 n-Heptane	71	12.130	12.130	0.0	91	706282	8.24	
55 1,2-Dichloropropane	63	12.216	12.214	0.002	85	610860	7.46	
56 Trichloroethene	130	12.254	12.252	0.002	96	953846	8.11	
57 Dibromomethane	93	12.334	12.332	0.002	93	853084	7.91	
59 Dichlorobromomethane	83	12.474	12.472	0.002	99	1438067	8.41	
58 1,4-Dioxane	88	12.474	12.483	-0.009	36	263409	8.97	
60 Methyl methacrylate	41	12.544	12.548	-0.004	91	682355	9.28	
61 Methylcyclohexane	83	13.012	13.013	-0.001	96	1256319	7.70	
62 4-Methyl-2-pentanone (MIBK)	43	13.378	13.382	-0.004	97	1423315	9.61	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	94	928432	7.99	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	97	879585	8.17	
65 Toluene	91	14.266	14.262	0.004	94	1869974	7.76	
66 1,1,2-Trichloroethane	83	14.330	14.328	0.002	96	586633	7.68	
67 2-Methylthiophene	97	14.416	14.413	0.003	97	1636492	7.55	
68 3-Methylthiophene	97	14.615	14.612	0.003	99	1654764	7.61	
69 2-Hexanone	58	14.691	14.694	-0.003	94	755508	9.57	
70 n-Octane	85	14.927	14.928	-0.001	92	718344	8.12	
71 Chlorodibromomethane	129	15.030	15.027	0.003	95	1496245	8.87	
72 Ethylene Dibromide	107	15.320	15.317	0.003	98	1055365	8.06	
73 Tetrachloroethene	129	15.395	15.393	0.002	95	851426	7.58	
75 Chlorobenzene	112	16.256	16.256	0.0	92	1616541	7.85	
74 2,3-Dimethylheptane	43	16.261	16.260	0.001	91	1960561	7.39	
76 Ethylbenzene	91	16.536	16.536	0.0	98	2251254	8.45	
77 2-Ethylthiophene	97	16.638	16.638	0.0	97	1757131	8.42	
78 m-Xylene & p-Xylene	91	16.697	16.696	0.001	98	3582524	16.7	
79 n-Nonane	57	17.101	17.098	0.003	90	1384118	8.28	
81 Bromoform	173	17.149	17.149	0.0	94	1345387	10.1	
80 Styrene	104	17.160	17.157	0.003	97	1446724	9.80	
82 o-Xylene	91	17.219	17.220	-0.001	97	1860295	8.54	
83 1,1,2,2-Tetrachloroethane	83	17.536	17.534	0.002	99	1658051	9.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.692	17.690	0.002	97	398010	9.32	
85 Isopropylbenzene	105	17.795	17.793	0.002	96	2789508	8.99	
86 N-Propylbenzene	120	18.311	18.310	0.001	99	814479	9.95	
87 2-Chlorotoluene	126	18.359	18.357	0.002	96	748591	8.76	
88 4-Ethyltoluene	105	18.456	18.454	0.002	97	2848420	9.84	
89 1,3,5-Trimethylbenzene	120	18.526	18.524	0.002	94	1440763	9.90	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	86	1265706	12.1	
91 n-Decane	57	18.795	18.793	0.002	90	1630218	9.15	
92 tert-Butylbenzene	119	18.940	18.937	0.003	88	2882125	10.1	
93 1,2,4-Trimethylbenzene	105	18.951	18.949	0.002	90	2560408	10.1	
94 sec-Butylbenzene	105	19.199	19.196	0.003	97	3698797	9.99	
95 1,3-Dichlorobenzene	146	19.220	19.217	0.003	98	1658482	10.0	
96 Benzyl chloride	91	19.290	19.288	0.002	99	2044904	10.8	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	95	1570678	10.2	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	87	3044134	10.3	
99 1,2,3-Trimethylbenzene	105	19.408	19.409	-0.001	97	2027503	9.86	
100 Butylcyclohexane	83	19.462	19.460	0.002	95	1999366	8.52	
101 2,3-Dihydroindene	117	19.656	19.653	0.003	90	2414878	10.5	
102 1,2-Dichlorobenzene	146	19.656	19.653	0.003	84	1699055	10.5	
103 n-Butylbenzene	91	19.780	19.777	0.003	97	2897714	10.5	
104 Indene	116	19.780	19.781	-0.001	86	2436478	12.1	
105 Undecane	57	20.070	20.068	0.002	94	1801735	10.0	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.140	20.138	0.002	96	2922288	10.5	
108 1,2,4,5-Tetramethylbenzene	119	20.527	20.525	0.002	97	3137565	11.2	
107 1,2,3,5-Tetramethylbenzene	119	20.581	20.582	-0.001	96	1875036	10.3	
109 1,2,3,4-Tetramethylbenzene	119	21.001	20.998	0.003	97	2444837	10.8	
110 Dodecane	57	21.146	21.148	-0.002	96	1806559	9.72	
111 1,2,4-Trichlorobenzene	180	21.377	21.379	-0.002	92	910586	12.6	
112 Naphthalene	128	21.528	21.527	0.001	99	2216472	10.8	
113 Benzo(b)thiophene	134	21.630	21.631	-0.001	99	1529823	11.0	
114 Hexachlorobutadiene	225	21.727	21.729	-0.002	85	1511092	10.2	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	94	979161	10.5	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	96	1671920	76.9	
117 1-Methylnaphthalene	142	22.582	22.583	-0.001	95	1506542	67.2	
139 Isopropyl ether	45	8.789	8.794	-0.005	97	1812554	NR	
142 Tert-butyl ethyl ether	59	9.483	9.487	-0.004	95	1742738	NR	
140 Tert-amyl methyl ether	73	11.474	11.482	-0.008	92	1719215	NR	
A 118 C6 Range	1	8.639	8.563 - 8.714		0	7329744	7.88	
A 122 Toluene Range	1	14.266	14.236 - 14.296		0	4461089	7.59	
A 123 C8 Range	1	14.927	14.879 - 14.976		0	6451566	7.09	
S 124 Xylenes, Total	100				0		25.2	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L8

Lab Sample ID:

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

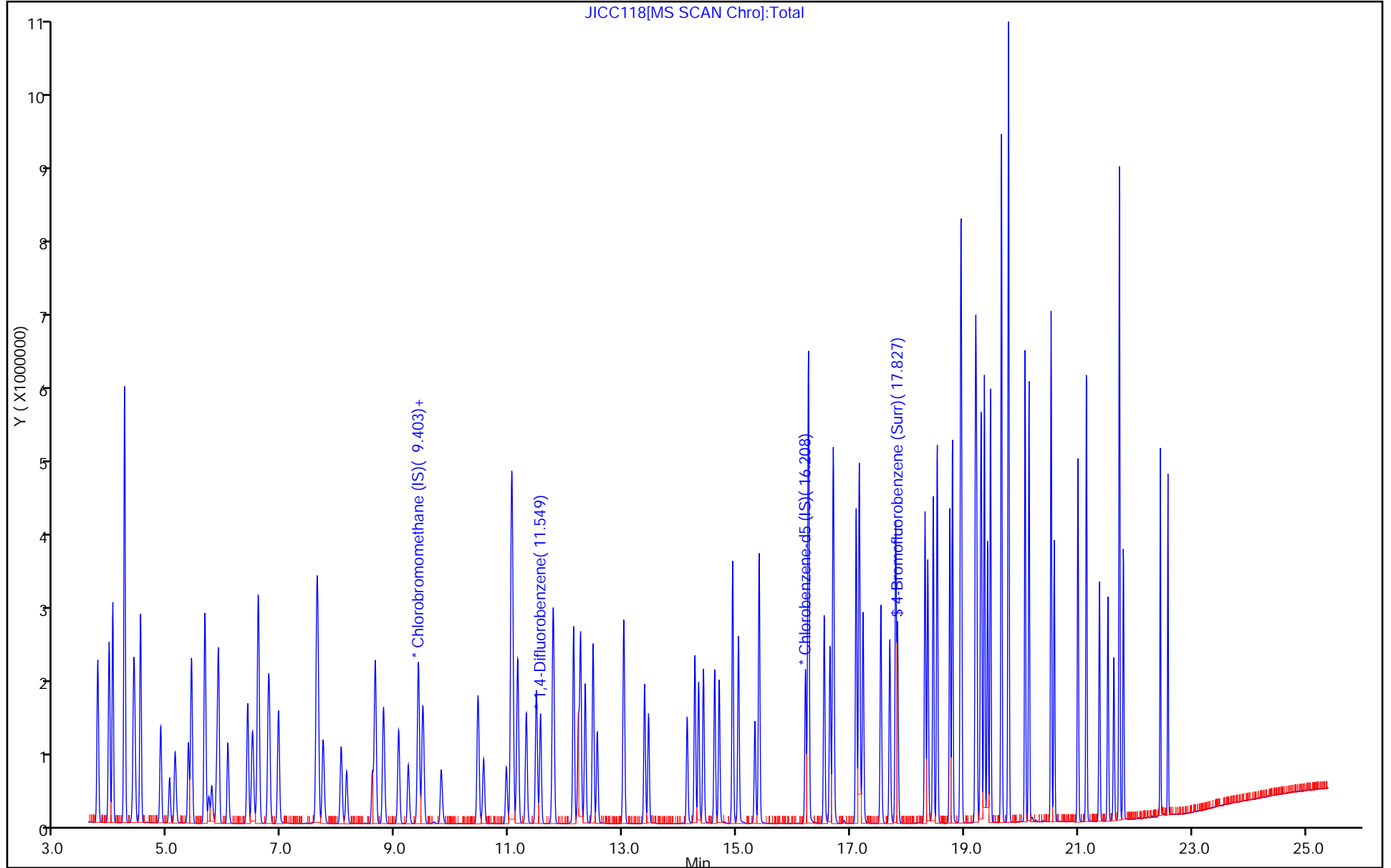
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

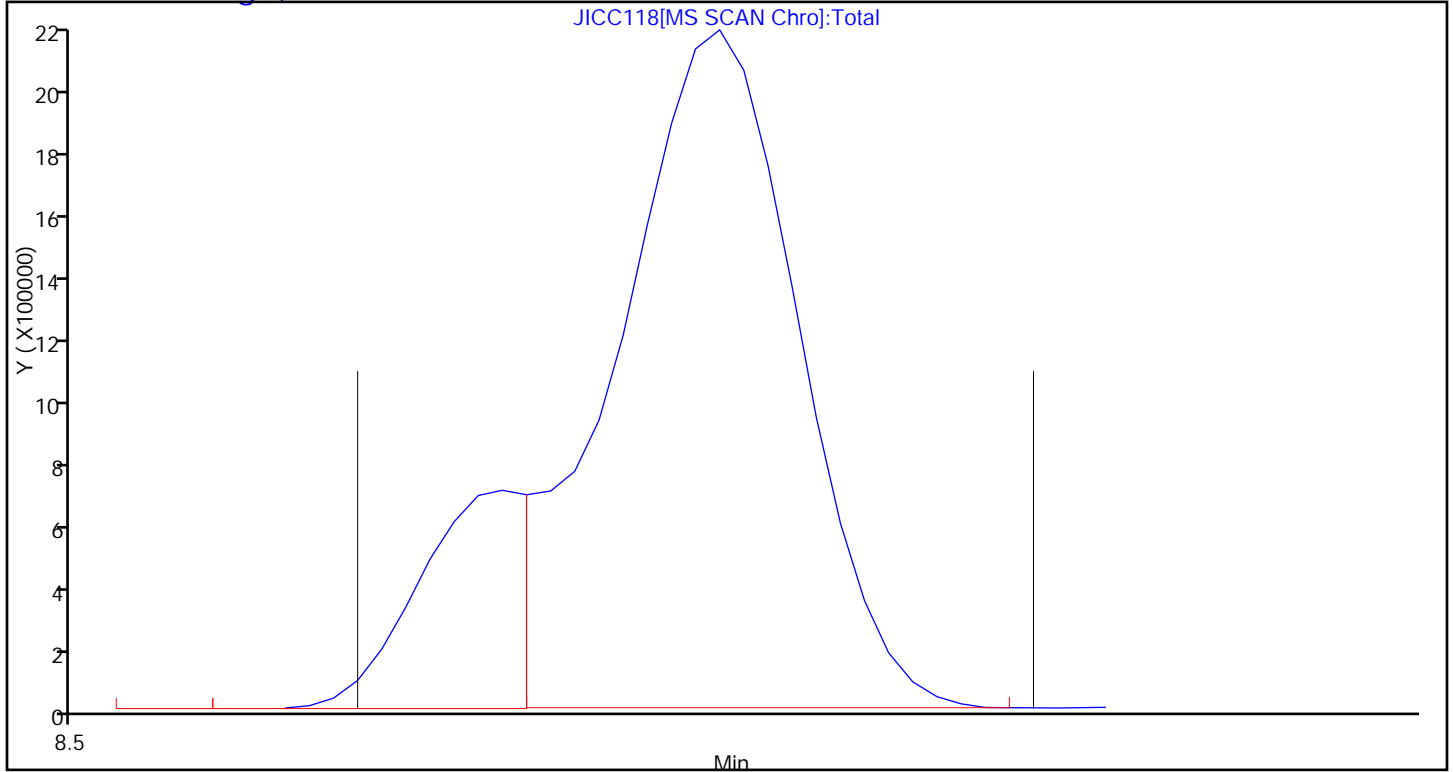
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

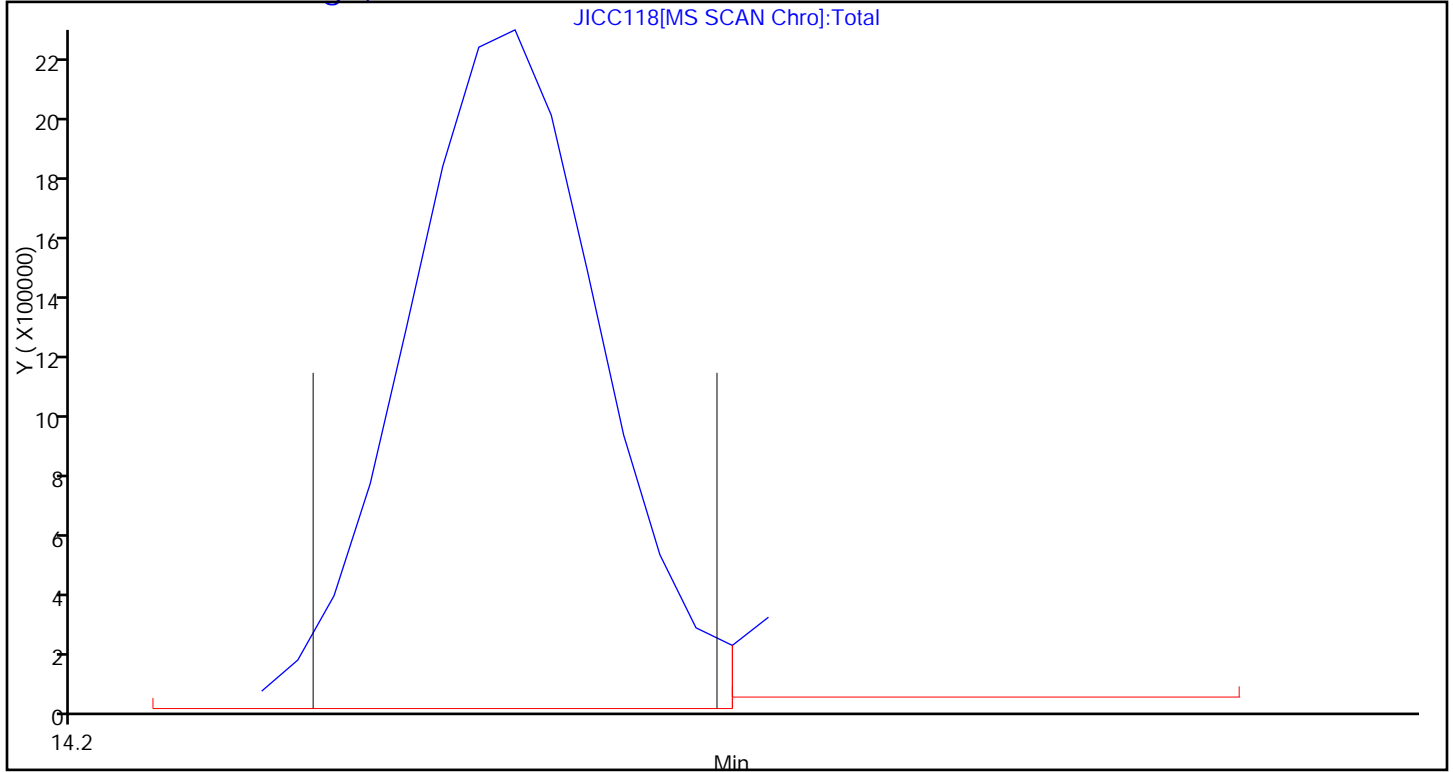
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

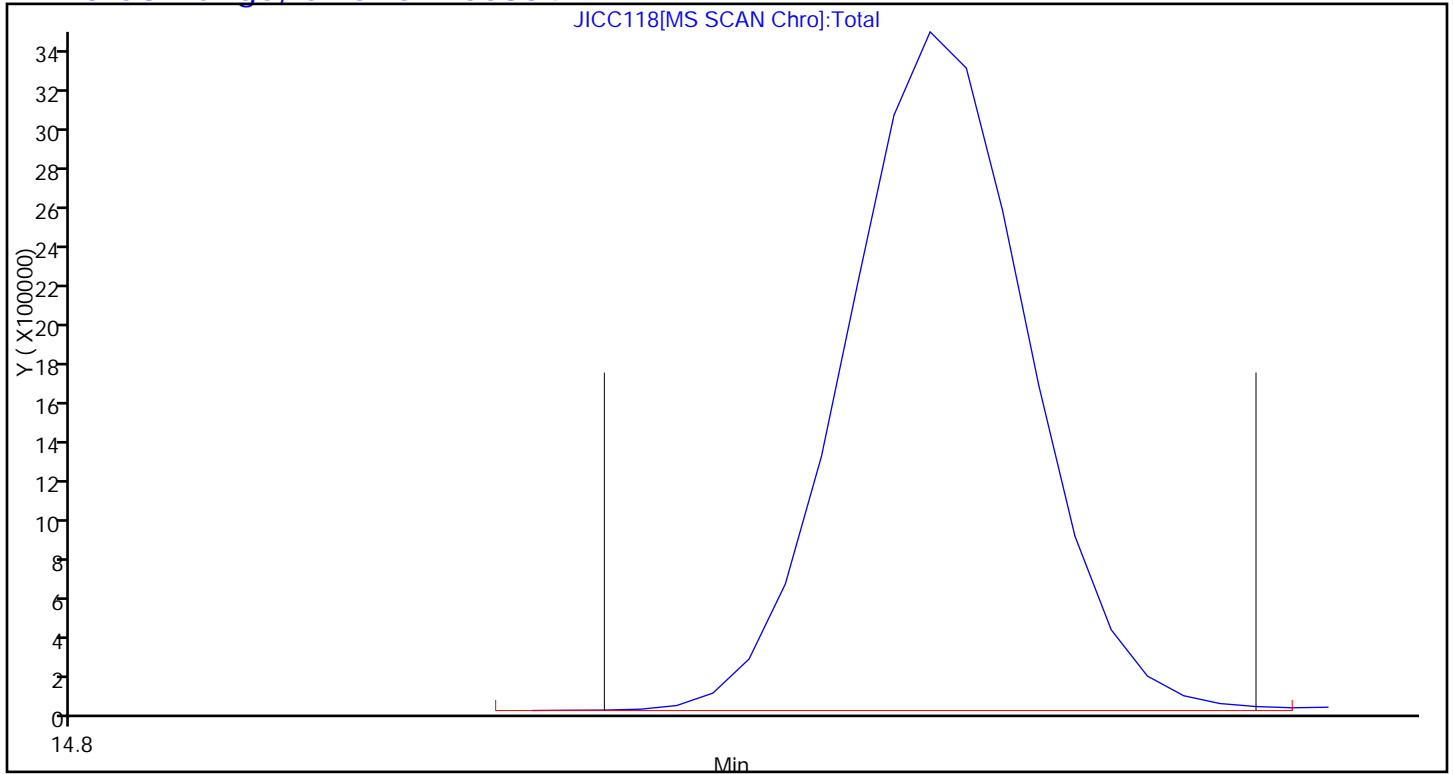
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Lims ID: IC L9 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 11-Mar-2014 19:57:30 ALS Bottle#: 15 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL9,,1,9,,ICAL 16
 Misc. Info.: J031114I,TO15,,140-0000516-010
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:43 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.392	0.011	95	350824	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.547	0.008	89	1417201	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.208	0.006	86	1302893	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	89	942607	4.09	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	96	505684	14.0	
7 Propene	41	3.970	3.973	-0.003	99	1458925	13.6	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	98	4882515	14.1	
9 Chloromethane	52	4.228	4.230	-0.002	99	494916	12.5	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	85	3992171	15.2	
11 Acetaldehyde	44	4.401	4.398	0.003	96	2205919	63.7	
12 Vinyl chloride	62	4.422	4.419	0.003	99	1770210	13.6	
14 Butadiene	54	4.519	4.517	0.002	69	1224939	13.6	
13 Butane	43	4.519	4.517	0.002	84	2267439	12.3	
15 Bromomethane	94	4.874	4.871	0.003	99	1918491	14.5	
16 Chloroethane	64	5.030	5.027	0.003	99	852776	14.3	
17 Ethanol	31	5.132	5.122	0.010	93	1841235	65.4	
18 Vinyl bromide	106	5.363	5.357	0.006	99	1753642	15.6	
19 2-Methylbutane	43	5.417	5.411	0.006	91	1976924	13.3	
20 Trichlorofluoromethane	101	5.654	5.647	0.007	99	4559353	14.9	
21 Acrolein	56	5.654	5.650	0.004	82	437980	15.3	
22 Acetonitrile	40	5.724	5.720	0.004	99	477609	15.1	
23 Acetone	58	5.772	5.776	-0.004	77	454598	9.12	
24 Isopropyl alcohol	45	5.864	5.858	0.006	86	1891993	14.4	
25 Pentane	72	5.891	5.884	0.007	98	289822	15.4	
26 Ethyl ether	31	6.057	6.059	-0.002	95	1293462	14.1	
27 1,1-Dichloroethene	96	6.407	6.399	0.008	100	1499326	15.2	
28 2-Methyl-2-propanol	59	6.493	6.487	0.006	94	2357157	14.5	
29 Acrylonitrile	53	6.504	6.498	0.006	94	846522	16.2	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	97	3210350	15.2	
31 Methylene Chloride	84	6.767	6.759	0.008	92	1306630	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.789	6.778	0.011	94	1253863	12.8	
33 Carbon disulfide	76	6.945	6.942	0.003	99	4789123	14.5	
34 trans-1,2-Dichloroethene	96	7.617	7.609	0.008	96	1705804	14.4	
35 2-Methylpentane	43	7.639	7.631	0.008	92	3402713	12.6	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	2584260	14.4	
37 1,1-Dichloroethane	63	8.048	8.041	0.007	100	2513809	13.6	
38 Vinyl acetate	43	8.145	8.141	0.004	100	2572051	15.9	
39 2-Butanone (MEK)	72	8.597	8.601	-0.005	100	487204	14.7	
40 Hexane	56	8.650	8.642	0.008	90	1264226	13.4	
41 cis-1,2-Dichloroethene	96	9.059	9.052	0.007	93	1451411	14.3	
42 Ethyl acetate	43	9.231	9.229	0.002	99	2092150	14.5	
43 Chloroform	83	9.414	9.403	0.011	97	2790275	13.6	
44 Tetrahydrofuran	42	9.807	9.816	-0.009	93	1179659	14.5	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	2968435	13.9	
46 1,2-Dichloroethane	62	10.555	10.547	0.008	95	1727411	15.7	
47 n-Butanol	31	10.958	10.958	0.0	86	562689	18.2	
48 Benzene	78	11.039	11.033	0.006	97	3816101	15.7	
49 Cyclohexane	69	11.044	11.040	0.004	82	734107	15.3	
50 Carbon tetrachloride	117	11.060	11.059	0.001	98	3477511	17.3	
51 2,3-Dimethylpentane	71	11.152	11.148	0.004	91	895905	15.6	
52 Thiophene	84	11.302	11.297	0.005	95	2407949	16.0	
53 Isooctane	57	11.776	11.771	0.005	97	6188593	14.9	
54 n-Heptane	71	12.136	12.130	0.006	89	1414497	16.4	
55 1,2-Dichloropropane	63	12.222	12.214	0.008	90	1374081	16.7	
56 Trichloroethene	130	12.260	12.252	0.008	94	2020928	17.1	
57 Dibromomethane	93	12.341	12.332	0.009	95	1782109	16.5	
59 Dichlorobromomethane	83	12.475	12.472	0.003	99	2968189	17.3	
58 1,4-Dioxane	88	12.475	12.483	-0.008	55	535040	18.2	
60 Methyl methacrylate	41	12.550	12.548	0.002	89	1312475	17.8	
61 Methylcyclohexane	83	13.018	13.013	0.005	97	2529310	15.5	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	97	2713031	18.3	
63 cis-1,3-Dichloropropene	75	13.454	13.448	0.006	92	2069482	17.7	
64 trans-1,3-Dichloropropene	75	14.132	14.126	0.006	97	1963516	18.2	
65 Toluene	91	14.266	14.262	0.004	92	4086312	16.9	
66 1,1,2-Trichloroethane	83	14.331	14.328	0.003	97	1314579	17.2	
67 2-Methylthiophene	97	14.417	14.413	0.004	96	3652163	16.8	
68 3-Methylthiophene	97	14.616	14.612	0.004	98	3714685	17.0	
69 2-Hexanone	58	14.697	14.694	0.003	95	1451418	18.3	
70 n-Octane	85	14.934	14.928	0.006	89	1469379	16.6	
71 Chlorodibromomethane	129	15.036	15.027	0.009	94	3347546	19.8	
72 Ethylene Dibromide	107	15.321	15.317	0.004	98	2473337	18.8	
73 Tetrachloroethene	129	15.396	15.393	0.003	97	1888055	16.8	
75 Chlorobenzene	112	16.262	16.256	0.006	97	3736744	18.1	
74 2,3-Dimethylheptane	43	16.268	16.260	0.008	85	3283977	12.3	
76 Ethylbenzene	91	16.542	16.536	0.006	97	4621160	17.3	
77 2-Ethylthiophene	97	16.644	16.638	0.006	96	3695934	17.7	
78 m-Xylene & p-Xylene	91	16.703	16.696	0.007	96	7138010	33.1	
79 n-Nonane	57	17.101	17.098	0.003	85	2746405	16.4	
81 Bromoform	173	17.155	17.149	0.006	95	3400531	25.5	
80 Styrene	104	17.161	17.157	0.004	96	3101488	21.0	
82 o-Xylene	91	17.225	17.220	0.005	99	3743538	17.1	
83 1,1,2,2-Tetrachloroethane	83	17.537	17.534	0.003	99	3301073	18.5	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.693	17.690	0.003	96	836915	19.6	
85 Isopropylbenzene	105	17.801	17.793	0.008	95	5530866	17.8	
86 N-Propylbenzene	120	18.312	18.310	0.002	97	1741082	21.2	
87 2-Chlorotoluene	126	18.360	18.357	0.003	93	1667404	19.5	
88 4-Ethyltoluene	105	18.457	18.454	0.003	96	5599605	19.3	
89 1,3,5-Trimethylbenzene	120	18.527	18.524	0.003	95	3015712	20.7	
90 Alpha Methyl Styrene	118	18.748	18.745	0.003	86	2701607	25.8	
91 n-Decane	57	18.796	18.793	0.003	91	3036195	17.0	
92 tert-Butylbenzene	119	18.941	18.937	0.004	89	5759135	20.2	
93 1,2,4-Trimethylbenzene	105	18.952	18.949	0.003	89	5045591	19.9	
94 sec-Butylbenzene	105	19.199	19.196	0.003	96	7092519	19.1	
95 1,3-Dichlorobenzene	146	19.221	19.217	0.004	95	3841334	23.1	
96 Benzyl chloride	91	19.291	19.288	0.003	95	4188073	22.2	
97 1,4-Dichlorobenzene	146	19.307	19.302	0.005	94	3642996	23.5	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	84	5986441	20.1	
99 1,2,3-Trimethylbenzene	105	19.415	19.409	0.006	96	3990183	19.4	
100 Butylcyclohexane	83	19.463	19.460	0.003	96	4012634	17.1	
101 2,3-Dihydroindene	117	19.657	19.653	0.004	90	4915942	21.3	
102 1,2-Dichlorobenzene	146	19.657	19.653	0.004	89	3809042	23.4	
103 n-Butylbenzene	91	19.780	19.777	0.003	95	5428724	19.7	
104 Indene	116	19.786	19.781	0.005	88	4978609	24.6	
105 Undecane	57	20.071	20.068	0.003	91	3299916	18.3	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	91	5841120	20.9	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	94	6339016	22.6	
107 1,2,3,5-Tetramethylbenzene	119	20.587	20.582	0.005	95	3871454	21.1	
109 1,2,3,4-Tetramethylbenzene	119	21.002	20.998	0.004	94	5109192	22.5	
110 Dodecane	57	21.152	21.148	0.004	96	3052464	16.4	
111 1,2,4-Trichlorobenzene	180	21.384	21.379	0.005	93	2137430	29.5	
112 Naphthalene	128	21.529	21.527	0.002	98	4750981	23.2	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	3355982	24.2	
114 Hexachlorobutadiene	225	21.733	21.729	0.004	82	3388138	22.9	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	95	2025463	21.7	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	96	969606	44.5	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	96	616839	27.4	
139 Isopropyl ether	45	8.796	8.794	0.002	96	3380667	NR	
142 Tert-butyl ethyl ether	59	9.484	9.487	-0.003	94	3237327	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	93	3205213	NR	
A 118 C6 Range	1	8.635	8.553 -	8.736	0	14110311	13.8	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	9697293	16.5	
A 123 C8 Range	1	14.928	14.880 -	14.977	0	12490633	13.7	
S 124 Xylenes, Total	100				0		50.3	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L9

Lab Sample ID:

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

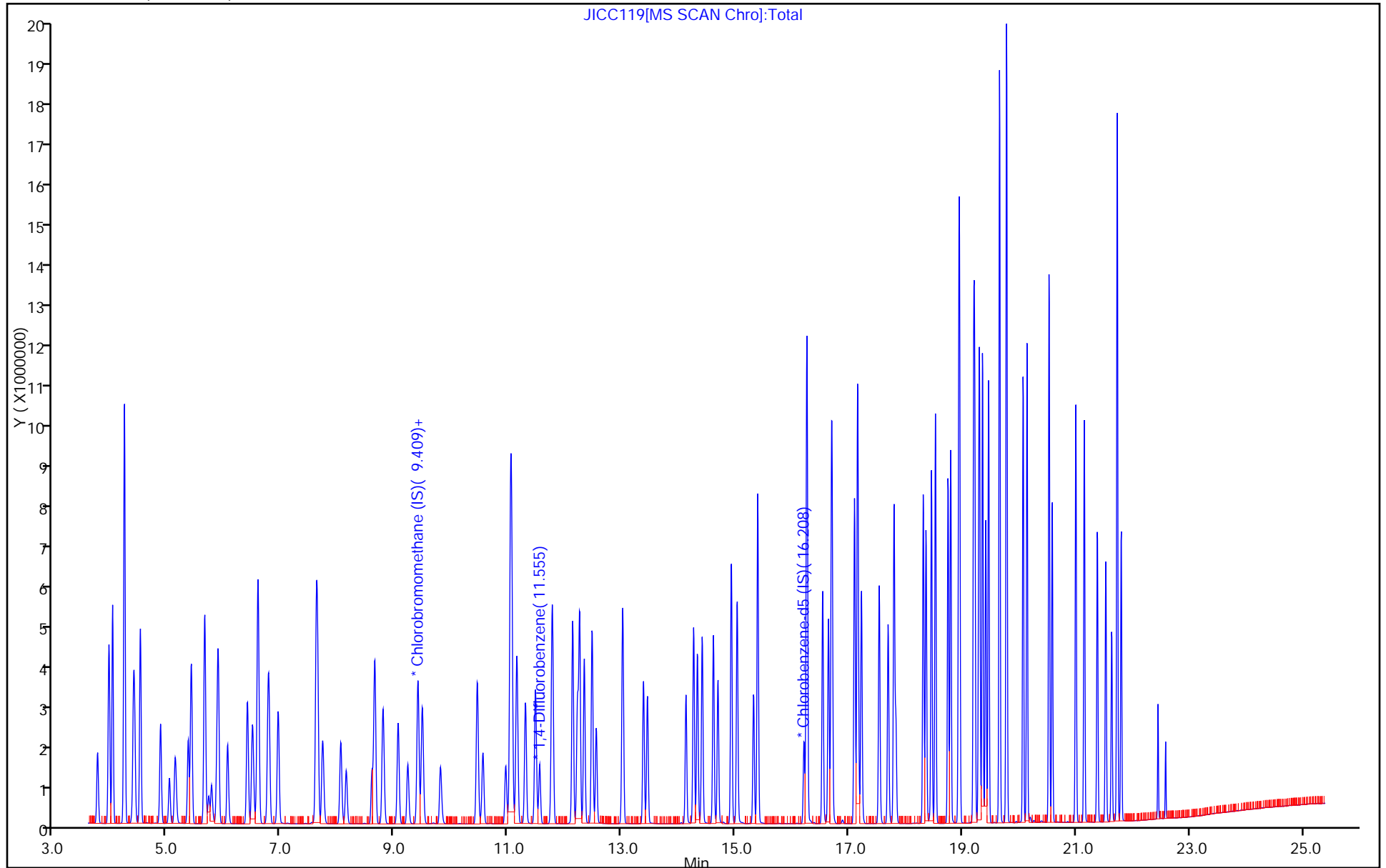
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

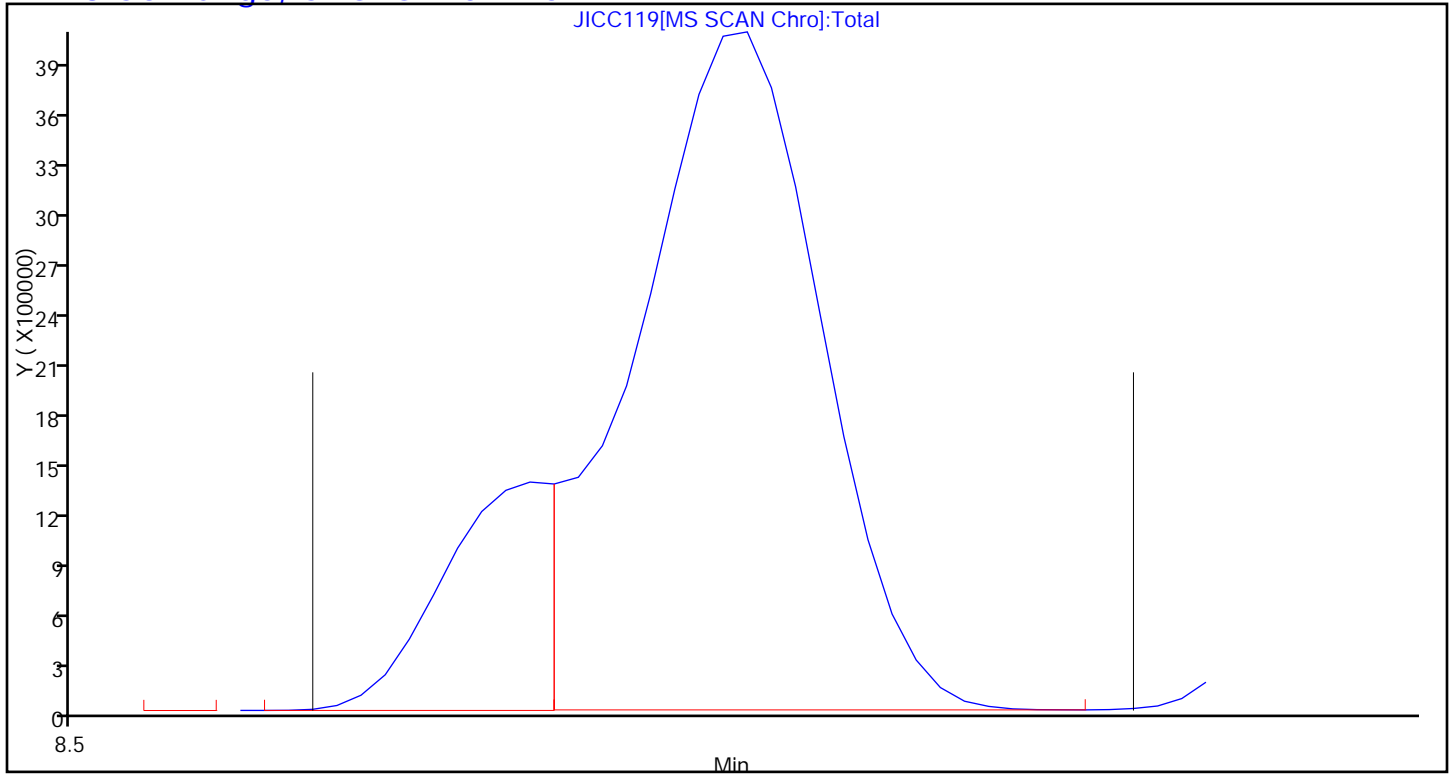
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

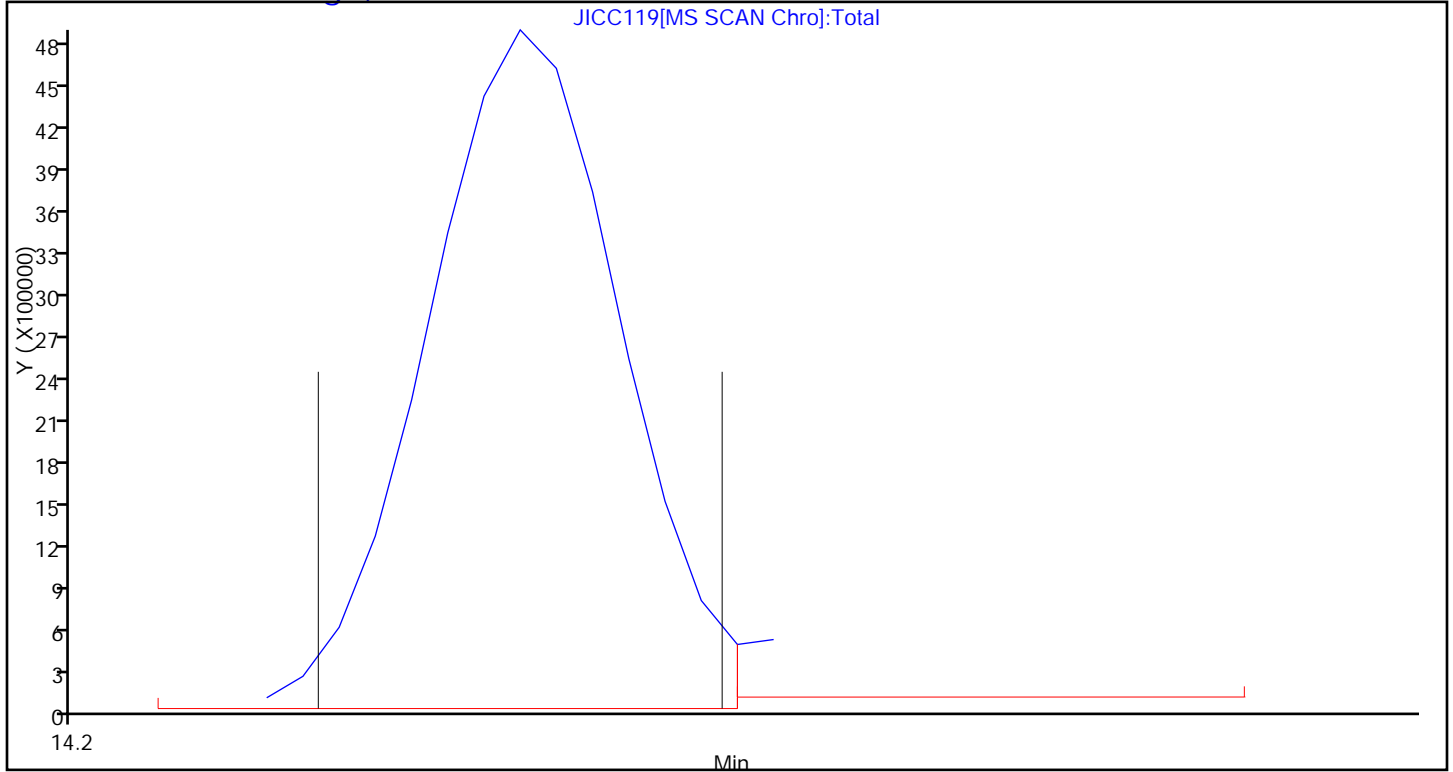
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

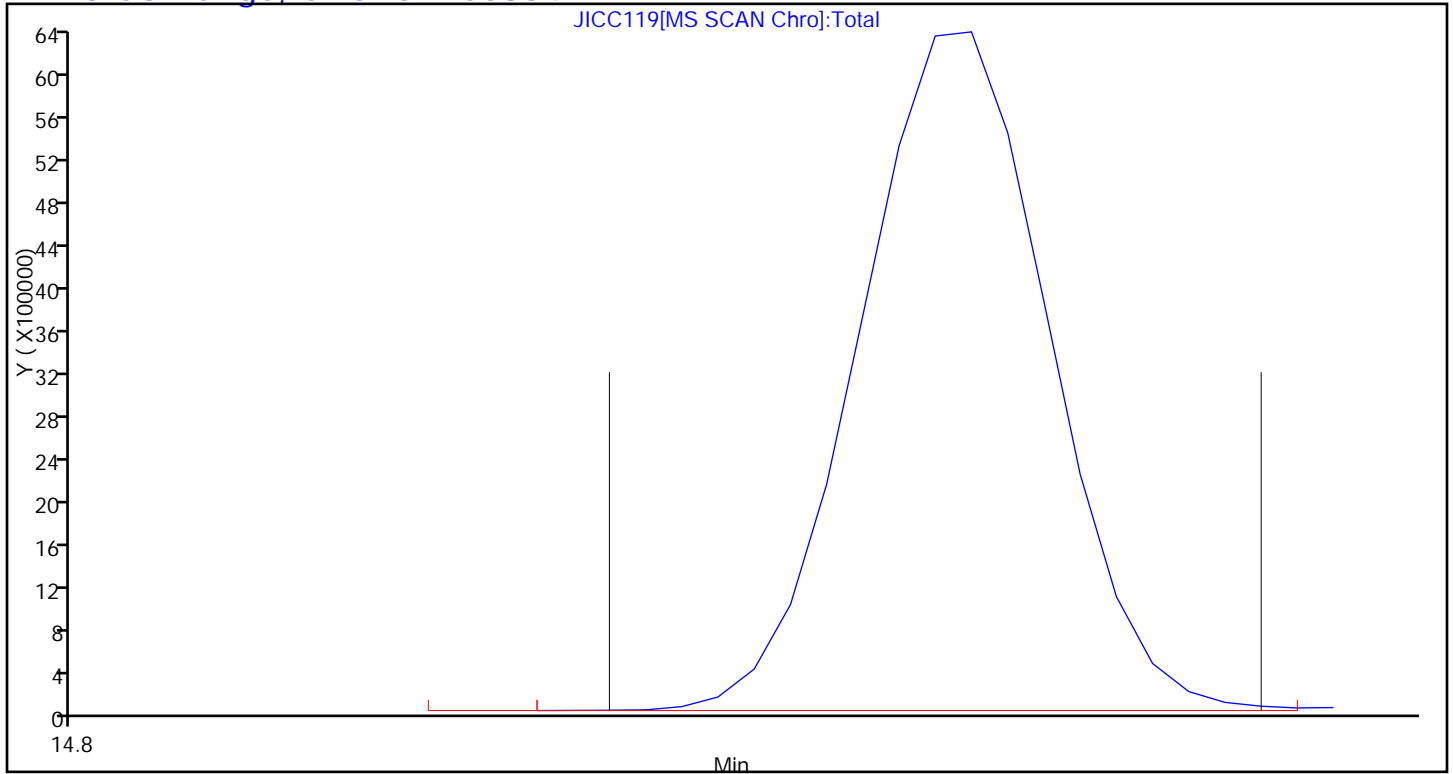
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-722/2	140-0000372-002.D
Level 2	IC 140-722/3	140-0000372-003.D
Level 3	IC 140-722/4	140-0000372-004.D
Level 4	IC 140-722/5	140-0000372-005.D
Level 5	IC 140-722/6	140-0000372-006.D
Level 6	IC 140-722/7	140-0000372-007.D
Level 7	IC 140-722/8	140-0000372-008.D
Level 8	IC 140-722/9	140-0000372-009.D
Level 9	IC 140-722/10	140-0000372-010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Chlorodifluoromethane	0.5120 0.4210	0.5305 0.3818	0.4697 0.3698	0.4490 0.3135	0.4248	Ave	0.4302				16.0		30.0				
Propene	++++ 1.6295	++++ 1.3657	1.9568 1.3376	2.5792 1.0572	1.8267	Ave	1.6789				30.0		30.0				
Dichlorodifluoromethane	4.6478 3.8790	4.6109 3.6381	4.3640 3.5301	4.2702 3.1616	4.0772	Ave	4.0199				13.0		30.0				
Chloromethane	++++ 0.6061	0.7264 0.5375	0.6873 0.5191	0.6534 0.4160	0.5985	Ave	0.5930				17.0		30.0				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.0737 2.9631	3.1686 2.6888	3.1057 2.6403	3.0977 2.2336	2.9427	Ave	2.8793				11.0		30.0				
Acetaldehyde	4.1846 1.0756	3.9510 0.6865	1.6550 0.6266	2.4492 0.4701	1.3507	Ave	1.8277				77.0	*	40.0				
Vinyl chloride	2.0539 1.8553	2.0642 1.6612	1.9464 1.6110	1.9619 1.3487	1.8405	Ave	1.8159				13.0		30.0				
1,3-Butadiene	1.8270 1.5252	1.7690 1.3769	1.6545 1.3284	1.6126 1.1242	1.5287	Ave	1.5274				15.0		30.0				
Butane	3.6031 3.0734	3.4352 2.6512	3.3616 2.5330	3.4048 2.1180	2.9971	Ave	3.0197				16.0		30.0				
Bromomethane	1.8886 1.5037	1.7591 1.3602	1.6649 1.3508	1.5609 1.1561	1.4635	Ave	1.5231				15.0		30.0				
Chloroethane	1.1061 0.9103	1.0275 0.8416	0.9618 0.8232	0.9871 0.7004	0.9037	Ave	0.9180				13.0		30.0				
Ethanol	++++ 0.7285	++++ 0.6158	0.7918 0.5762	0.8252 0.4452	0.7475	Ave	0.6757				20.0		40.0				
Vinyl bromide	1.7079 1.4962	1.5812 1.3791	1.5295 1.3750	1.5148 1.1799	1.4757	Ave	1.4710				10.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylbutane	++++ 2.3899	2.6151 2.1489	2.5394 2.0784	2.5371 1.7423	2.3334	Ave		2.2981			13.0		30.0				
Acrolein	++++ 0.8261	++++ 0.7459	0.9664 0.8075	0.8935 0.6755	0.8145	Ave		0.8185			12.0		30.0				
Trichlorofluoromethane	4.1646 4.0291	4.2697 3.7832	4.1449 3.8811	4.0456 3.4236	3.9546	Ave		3.9663			6.4		30.0				
Acetonitrile	++++ 0.8381	0.7182 0.7541	0.6777 0.7998	0.8552 0.6693	0.8270	Ave		0.7674			9.5		30.0				
Acetone	12.814 2.4572	12.732 1.2215	3.9869 1.0696	7.2630 0.7621	3.2201	Ave		5.0585			95.0	*	30.0				
Pentane	0.3659 0.3248	0.3653 0.3078	0.3218 0.3114	0.3368 0.2770	0.3149	Ave		0.3251			8.7		30.0				
Isopropyl alcohol	++++ 3.2468	++++ 2.8790	3.4054 2.8946	3.6984 2.3886	3.1661	Ave		3.0970			14.0		30.0				
Ethyl ether	2.3860 2.2145	2.3267 2.0266	2.2513 2.1237	2.1599 1.8103	2.1166	Ave		2.1573			7.9		30.0				
1,1-Dichloroethene	1.4853 1.2790	1.3624 1.2034	1.3136 1.2332	1.2785 1.1016	1.2605	Ave		1.2797			8.3		30.0				
Acrylonitrile	1.4468 1.4475	1.4500 1.3659	1.5036 1.4712	1.4206 1.2834	1.4229	Ave		1.4235			4.5		30.0				
tert-Butyl alcohol	++++ 3.2796	++++ 3.1652	3.2088 3.2273	3.1658 2.7489	3.2791	Ave		3.1535			5.8		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9024 2.7291	2.8438 2.5587	2.7008 2.6646	2.7129 2.3668	2.6565	Ave		2.6817			5.8		30.0				
Methylene Chloride	++++ 1.2430	1.5520 1.1467	1.4364 1.1716	1.2475 1.0407	1.2059	Ave		1.2555			13.0		30.0				
3-Chloropropene	1.5103 1.5139	1.6360 1.4342	1.5121 1.4662	1.4637 1.2539	1.4815	Ave		1.4746			6.8		30.0				
Carbon disulfide	4.6696 4.4658	4.4653 4.2253	4.4450 4.3473	4.3608 3.8681	4.3452	Ave		4.3547			5.0		30.0				
trans-1,2-Dichloroethene	1.8203 1.5575	1.7174 1.4689	1.6943 1.5166	1.5562 1.3474	1.5207	Ave		1.5777			9.1		30.0				
2-Methylpentane	4.7612 4.5314	4.6508 4.2871	4.5562 4.3876	4.4761 3.8057	4.3381	Ave		4.4216			6.2		40.0				
Methyl tert-butyl ether	4.7266 4.4038	4.5128 4.0916	4.3589 4.2996	4.2040 3.7585	4.1664	Ave		4.2803			6.4		30.0				
1,1-Dichloroethane	3.1689 2.8670	2.9691 2.7384	2.9269 2.8171	2.8493 2.4723	2.7347	Ave		2.8382			6.7		30.0				
Vinyl acetate	4.5168 4.8376	4.6376 4.5830	4.6503 5.0173	4.4728 4.3602	4.5327	Ave		4.6232			4.3		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Butanone (MEK)	++++	++++	0.9081	1.3964	0.9601	Ave		0.9176			26.0		30.0				
	0.9648	0.7651	0.7731	0.6555													
Hexane	1.7986	1.7448	1.6200	1.5695	1.4892	Ave		1.5784			8.4		30.0				
	1.5763	1.4904	1.5523	1.3644													
C6 Range	++++	3.1809	4.3857	2.7174	2.6018	Ave		2.9983			21.0		30.0				
	2.6644	2.4828	2.6258	3.3277													
cis-1,2-Dichloroethene	1.5655	1.5593	1.5034	1.4675	1.4394	Ave		1.4589			5.9		30.0				
	1.4636	1.3876	1.4579	1.2865													
Ethyl acetate	4.5617	4.2600	4.1833	4.0481	4.1348	Ave		4.2020			5.9		30.0				
	4.4228	4.1846	4.3323	3.6901													
Chloroform	3.2587	3.1757	3.0074	2.9485	2.9111	Ave		2.9765			6.1		30.0				
	3.0183	2.8618	2.9800	2.6271													
Tetrahydrofuran	2.6328	2.3694	2.4129	2.2622	2.2194	Ave		2.2847			8.7		30.0				
	2.3460	2.1586	2.2595	1.9013													
1,1,1-Trichloroethane	3.0636	2.9500	2.9472	2.9087	2.8520	Ave		2.9064			4.2		30.0				
	2.9739	2.8443	2.9835	2.6343													
1,2-Dichloroethane	0.4403	0.4733	0.4389	0.4493	0.4362	Ave		0.4407			4.7		30.0				
	0.4505	0.4284	0.4518	0.3979													
1-Butanol	++++	++++	0.1110	0.1402	0.1262	Ave		0.1284			9.0		30.0				
	0.1355	0.1322	0.1386	0.1149													
Benzene	0.9537	0.9084	0.9294	0.8714	0.8599	Ave		0.8820			5.4		30.0				
	0.8778	0.8434	0.9003	0.7937													
Cyclohexane	0.1763	0.1612	0.1473	0.1464	0.1400	Ave		0.1490			8.8		30.0				
	0.1477	0.1416	0.1498	0.1306													
Carbon tetrachloride	0.6076	0.5927	0.5722	0.5710	0.5856	Ave		0.5896			3.2		30.0				
	0.5939	0.5882	0.6262	0.5687													
2,3-Dimethylpentane	0.1882	0.1975	0.1991	0.1920	0.1917	Ave		0.1919			3.6		40.0				
	0.1961	0.1860	0.1987	0.1781													
Thiophene	0.5334	0.5451	0.5444	0.5295	0.5172	Ave		0.5288			3.5		40.0				
	0.5396	0.5147	0.5455	0.4900													
2,2,4-Trimethylpentane	1.9424	1.8222	1.8150	1.7847	1.7484	Ave		1.7958			4.7		30.0				
	1.8213	1.7283	1.8559	1.6443													
Heptane	0.3931	0.3700	0.3304	0.3284	0.3226	Ave		0.3372			8.3		30.0				
	0.3314	0.3156	0.3407	0.3022													
1,2-Dichloropropane	0.3748	0.3830	0.3563	0.3537	0.3469	Ave		0.3592			4.7		30.0				
	0.3655	0.3464	0.3750	0.3313													
Trichloroethene	0.3921	0.4034	0.3889	0.3843	0.3656	Ave		0.3777			4.8		30.0				
	0.3786	0.3590	0.3819	0.3450													
Dibromomethane	0.3747	0.3516	0.3416	0.3377	0.3402	Ave		0.3465			4.3		30.0				
	0.3483	0.3354	0.3631	0.3262													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Bromodichloromethane	0.6007 0.6549	0.5964 0.6360	0.6006 0.6976	0.6130 0.6276	0.6194	Ave	0.6274				5.2		30.0				
1,4-Dioxane	++++ 0.1495	++++ 0.1405	0.1302 0.1455	0.1407 0.1221	0.1427	Ave	0.1387				6.8		30.0				
Methyl methacrylate	0.6069 0.5493	0.4862 0.5310	0.4735 0.5613	0.4810 0.4834	0.5023	Ave	0.5194				8.8		30.0				
Methylcyclohexane	0.5714 0.5456	0.5644 0.5252	0.5533 0.5573	0.5474 0.5007	0.5304	Ave	0.5440				4.0		40.0				
4-Methyl-2-pentanone (MIBK)	++++ 0.9411	++++ 0.9002	1.1060 0.9525	0.8741 0.8386	0.8897	Ave	0.9289				9.4		30.0				
cis-1,3-Dichloropropene	0.4713 0.4937	0.4558 0.4739	0.4698 0.5247	0.4672 0.4729	0.4682	Ave	0.4775				4.2		30.0				
trans-1,3-Dichloropropene	0.5365 0.6042	0.5468 0.5767	0.5409 0.6509	0.5344 0.5817	0.5505	Ave	0.5692				6.8		30.0				
Toluene	1.2859 1.2787	1.2777 1.1818	1.2250 1.3112	1.2271 1.1670	1.1888	Ave	1.2382				4.2		30.0				
Toluene Range	++++ 4.7581	2.8246 4.4378	4.9404 4.9069	2.7061 ++++	2.6363	Ave	3.8872				28.0		30.0				
1,1,2-Trichloroethane	0.3789 0.3742	0.3558 0.3530	0.3550 0.3927	0.3607 0.3483	0.3527	Ave	0.3635				4.1		30.0				
2-Methylthiophene	1.0758 1.0928	1.0337 1.0277	1.0365 1.1419	1.0385 1.0094	1.0223	Ave	1.0532				4.0		40.0				
3-Methylthiophene	1.0508 1.1168	1.0881 1.0409	1.0592 1.1657	1.0628 1.0352	1.0463	Ave	1.0740				4.0		40.0				
2-Hexanone	++++ 0.5675	0.4661 0.5526	0.4500 0.5905	0.4886 0.5209	0.5066	Ave	0.5179				9.6		30.0				
Dibromochloromethane	0.5873 0.7322	0.5922 0.7068	0.5839 0.8030	0.6254 0.7160	0.6580	Ave	0.6672				12.0		30.0				
Octane	0.5654 0.4295	0.5394 0.4004	0.4283 0.4455	0.4161 0.3830	0.4123	Ave	0.4467				14.0		30.0				
C8 Range	++++ 5.9259	++++ 5.6210	6.9776 6.0035	6.1779 5.0956	6.0169	Ave	5.9741				9.5		30.0				
1,2-Dibromoethane (EDB)	0.6070 0.6684	0.6233 0.6380	0.6151 0.7142	0.6235 0.6470	0.6232	Ave	0.6400				5.2		30.0				
Tetrachloroethene	0.4345 0.4355	0.4343 0.4065	0.4238 0.4451	0.4225 0.3940	0.4135	Ave	0.4233				3.8		30.0				
Chlorobenzene	1.0745 0.9841	1.0459 0.9088	1.0349 0.9979	1.0031 0.8956	0.9642	Ave	0.9899				6.1		30.0				
2,3-Dimethylheptane	1.6345 1.5807	1.5942 1.4765	1.5264 1.5824	1.4916 1.3585	1.4787	Ave	1.5248				5.5		40.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Ethylbenzene	1.6094 1.5643	1.6073 1.4490	1.5814 1.5597	1.5562 1.4222	1.5291	Ave	1.5421				4.3		30.0				
2-Ethylthiophene	1.1864 1.2042	1.2121 1.1257	1.1683 1.2184	1.1719 1.1113	1.1649	Ave	1.1737				3.1		40.0				
m-Xylene & p-Xylene	1.2564 1.2605	1.2484 1.1727	1.2368 1.2563	1.2265 1.1351	1.2200	Ave	1.2236				3.5		30.0				
Bromoform	0.5103 0.6978	0.5264 0.6944	0.5342 0.7768	0.5754 0.7584	0.6409	Ave	0.6350				16.0		30.0				
Styrene	0.7241 0.9710	0.7603 0.8937	0.7908 0.9620	0.8528 0.8965	0.9013	Ave	0.8614				10.0		30.0				
Nonane	1.0944 1.0960	1.1028 1.0210	1.0064 1.0732	1.0055 0.9481	1.0145	Ave	1.0402				5.1		30.0				
o-Xylene	1.3157 1.3068	1.3079 1.1910	1.2885 1.2607	1.2769 1.1598	1.2590	Ave	1.2629				4.3		30.0				
1,1,2,2-Tetrachloroethane	0.8656 1.0434	0.9198 0.9828	0.9103 1.0512	0.9087 0.9314	0.9464	Ave	0.9511				6.6		30.0				
1,2,3-Trichloropropane	0.3071 0.3133	0.3047 0.2891	0.2810 0.3030	0.2829 0.2672	0.2863	Ave	0.2927				5.1		30.0				
Isopropylbenzene	2.0633 2.0441	2.0172 1.8525	1.9934 1.9251	1.9181 1.7417	1.9014	Ave	1.9396				5.3		30.0				
Propylbenzene	0.5395 0.5660	0.5270 0.5192	0.5157 0.5446	0.5227 0.4909	0.5253	Ave	0.5279				4.0		30.0				
2-Chlorotoluene	0.4801 0.4782	0.4680 0.4262	0.4630 0.4446	0.4676 0.4101	0.4545	Ave	0.4547				5.2		30.0				
4-Ethyltoluene	2.0387 2.1221	2.0569 1.9614	1.9257 2.0861	1.9163 1.8562	1.9498	Ave	1.9904				4.5		30.0				
1,3,5-Trimethylbenzene	0.8711 0.9394	0.8798 0.8864	0.8771 0.9488	0.8574 0.8433	0.8683	Ave	0.8857				4.0		30.0				
Alpha Methyl Styrene	0.5583 0.8300	0.5703 0.8019	0.5638 0.8816	0.6239 0.8002	0.7145	Ave	0.7049				18.0		30.0				
Decane	1.7710 1.4450	1.7824 1.3736	1.2209 1.4727	1.2487 1.2697	1.3062	Ave	1.4323				15.0		30.0				
tert-Butylbenzene	1.7050 1.8173	1.7329 1.7219	1.7054 1.8574	1.6719 1.6204	1.6881	Ave	1.7245				4.2		30.0				
1,2,4-Trimethylbenzene	1.6229 1.7557	1.6427 1.6631	1.5655 1.7837	1.5830 1.5627	1.6063	Ave	1.6429				4.8		30.0				
1,3-Dichlorobenzene	1.1772 1.1601	1.1167 1.0764	1.0728 1.1630	1.0539 1.0456	1.0778	Ave	1.1048				4.6		30.0				
sec-Butylbenzene	2.3958 2.6107	2.4265 2.4727	2.3240 2.6451	2.3383 +++++	2.3939	Ave	2.4509				4.9		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Benzyl chloride	1.1360 1.5538	1.0735 1.5419	1.0852 1.6867	1.1936 1.4910	1.3493	Ave		1.3457			17.0		30.0				
1,4-Dichlorobenzene	1.1345 1.1728	1.1019 1.0963	1.0999 1.1871	1.0670 1.0694	1.0906	Ave		1.1133			3.8		30.0				
4-Isopropyltoluene	2.0607 2.2606	1.9287 2.1455	2.0446 2.3132	2.0070 2.0159	2.0969	Ave		2.0970			5.9		30.0				
1,2,3-Trimethylbenzene	1.4569 1.5858	1.4400 1.4986	1.4410 1.5989	1.4260 1.4137	1.4577	Ave		1.4798			4.6		40.0				
Butylcyclohexane	1.3177 1.4072	1.3175 1.3323	1.2640 1.4244	1.2722 1.2422	1.3000	Ave		1.3197			4.7		40.0				
1,2-Dichlorobenzene	1.1040 1.1227	1.0599 1.0553	1.0453 1.1336	1.0236 1.0071	1.0504	Ave		1.0669			4.1		30.0				
Indane	1.4865 1.6022	1.4853 1.4901	1.4411 1.5946	1.4394 1.4189	1.4721	Ave		1.4922			4.4		40.0				
Indene	1.2383 1.6509	1.3155 1.5767	1.3103 1.7276	1.3550 1.5418	1.4780	Ave		1.4660			12.0		40.0				
Butylbenzene	1.8568 2.1239	1.8739 2.0123	1.8608 2.1456	1.8469 1.8503	1.9601	Ave		1.9478			6.2		30.0				
1,2-Dimethyl-4-Ethylbenzene	1.9403 2.1379	1.8931 2.0225	1.8350 2.1658	1.8594 1.8787	1.9815	Ave		1.9682			6.1		40.0				
Undecane	1.4660 1.7525	1.4886 1.6755	1.3960 1.7536	1.4232 1.4621	1.6220	Ave		1.5599			9.1		30.0				
1,2,4,5-Tetramethylbenzene	1.8821 2.2567	2.0176 2.1261	1.9303 2.2510	1.9641 1.9448	2.1072	Ave		2.0533			6.8		40.0				
1,2,3,5-Tetramethylbenzene	1.1975 1.4098	1.2660 1.3122	1.2387 1.3866	1.2324 1.2197	1.3237	Ave		1.2874			5.8		40.0				
1,2,3,4-Tetramethylbenzene	1.5175 1.9023	1.7490 1.7688	1.6205 1.8741	1.6053 1.6114	1.8034	Ave		1.7169			7.8		40.0				
Dodecane	1.3749 1.7701	1.4075 1.6041	1.2544 1.6752	1.3052 1.3617	1.6760	Ave		1.4921			13.0		30.0				
1,2,4-Trichlorobenzene	0.8901 0.9856	0.8867 0.9168	0.8042 0.9860	0.8036 0.8802	0.9294	Ave		0.8981			7.4		30.0				
Naphthalene	1.9090 2.2386	1.9293 2.0654	1.7819 2.1846	1.7876 1.8759	2.0861	Ave		1.9843			8.4		30.0				
Benzo(b)thiophene	1.4789 1.7807	1.4535 1.6475	1.4043 1.7364	1.4345 1.5256	1.6280	Ave		1.5655			8.8		40.0				
Hexachlorobutadiene	0.9294 0.8879	0.8897 0.8313	0.7557 0.9060	0.7405 0.8169	0.8535	Ave		0.8457			7.8		30.0				
1,2,3-Trichlorobenzene	0.8492 0.9492	0.8337 0.8684	0.7779 0.9141	0.7607 0.8143	0.9010	Ave		0.8521			7.4		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylnaphthalene	+++++	0.1096	0.1119	0.1160	0.1726	Ave		0.1506			22.0		40.0				
	0.1950	0.1683	0.1777	0.1534													
1-Methylnaphthalene	+++++	0.0994	0.1014	0.0988	0.1480	Ave		0.1263			20.0		40.0				
	0.1629	0.1380	0.1417	0.1202													
4-Bromofluorobenzene (Surr)	0.7603	0.7722	0.7772	0.7951	0.8043	Ave		0.7880			2.4		30.0				
	0.8151	0.8029	0.7692	0.7958													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-722/2	140-0000372-002.D
Level 2	IC 140-722/3	140-0000372-003.D
Level 3	IC 140-722/4	140-0000372-004.D
Level 4	IC 140-722/5	140-0000372-005.D
Level 5	IC 140-722/6	140-0000372-006.D
Level 6	IC 140-722/7	140-0000372-007.D
Level 7	IC 140-722/8	140-0000372-008.D
Level 8	IC 140-722/9	140-0000372-009.D
Level 9	IC 140-722/10	140-0000372-010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Chlorodifluoromethane	CBM	Ave	2236 90674	4427 189525	7749 383917	18538 775758	44642	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	++++ 350979	++++ 677975	32280 1388816	106482 2615684	191972	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	20296 835511	38474 1806104	71991 3665312	176297 7822702	428480	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	++++ 130558	6061 266829	11338 538957	26974 1029235	62894	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	CBM	Ave	13422 638229	26439 1334827	51233 2741426	127891 5526469	309246	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	91366 1158429	164839 1704135	136513 3252841	505581 5815631	709734	0.200 10.0	0.400 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl chloride	CBM	Ave	8969 399618	17224 824704	32109 1672679	80999 3337115	193424	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	7978 328529	14761 683582	27293 1379269	66578 2781510	160652	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	15734 661996	28664 1316164	55456 2629992	140570 5240628	314967	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	8247 323886	14678 675275	27466 1402517	64442 2860449	153803	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	4830 196082	8574 417815	15867 854738	40753 1732990	94970	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	++++ 784581	++++ 1528437	65313 2991357	170340 5507650	392779	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	7458 322276	13194 684664	25232 1427658	62540 2919357	155079	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	++++ 514765	21821 1066827	41891 2158036	104747 4310850	245218	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Acrolein	CBM	Ave	++++ 177945	++++ 370297	15943 838433	36889 1671381	85600	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Trichlorofluoromethane	CBM	Ave	18186 867834	35627 1878183	68377 4029712	167025 8470940	415588	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 180511	5993 374364	11179 830375	35309 1655942	86908	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	55956 529274	106240 606426	65770 1110514	299859 1885545	338403	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Pentane	CBM	Ave	1598 69956	3048 152828	5308 323363	13903 685375	33095	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	++++ 699342	++++ 1429277	56178 3005473	152691 5909935	332729	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	10419 476998	19414 1006103	37139 2205019	89171 4479274	222435	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	6486 275491	11368 597429	21670 1280379	52782 2725763	132463	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	6318 311786	12099 678084	24804 1527509	58649 3175446	149537	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	++++ 706407	++++ 1571340	52935 3350917	130701 6801594	344604	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	12674 587842	23729 1270272	44554 2766619	112003 5856167	279175	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 267733	12950 569295	23696 1216512	51504 2574915	126726	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	6595 326087	13651 712008	24945 1522318	60429 3102495	155687	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	20391 961912	37259 2097643	73327 4513764	180040 9570753	456645	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	7949 335466	14330 729234	27951 1574684	64249 3333749	159809	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	20791 976040	38807 2128321	75162 4555648	184798 9416462	455895	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	20640 948548	37656 2031281	71908 4464258	173563 9299623	437854	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	13838 617533	24775 1359487	48284 2924949	117636 6117161	287393	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	19724 1041984	38697 2275234	76715 5209443	184664 10788310	476346	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	++++ 207821	++++ 379816	14981 802740	57652 1621811	100901	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	7854 339532	14559 739901	26724 1611707	64798 3375887	156497	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
C6 Range	DFB	Ave	++++ 2949803	135790 6312165	370756 13738196	572761 40834449	1395991	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	6836 315244	13011 688848	24801 1513772	60585 3183069	151268	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	19920 952640	35546 2077434	69011 4498244	167127 9130416	434533	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	14230 650118	26499 1420734	49612 3094108	121732 6500051	305925	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	11497 505316	19771 1071644	39805 2345980	93395 4704300	233243	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	13378 640561	24615 1412036	48619 3097796	120087 6517986	299716	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	9807 498800	20204 1089031	37103 2363643	94692 4882126	234065	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	++++ 150003	++++ 336131	9383 725123	29548 1409619	67708	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	21242 971870	38778 2144154	78571 4710334	183665 9738908	461399	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	3926 163496	6882 359921	12454 783531	30854 1602009	75112	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	13532 657577	25301 1495437	48370 3276213	120345 6979069	314218	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	4191 217125	8432 472890	16830 1039504	40459 2185934	102833	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	11881 597411	23272 1308649	46019 2854257	111598 6012656	277486	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	43264 2016394	77787 4394059	153435 9709733	376181 20177035	938098	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	8756 366853	15797 802412	27927 1782688	69218 3708139	173112	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	8349 404601	16351 880711	30123 1962116	74558 4065194	186154	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	8734 419202	17223 912599	32873 1998232	81001 4233917	196138	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	8346 385560	15011 852648	28881 1899946	71181 4002957	182520	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	13379 725095	25461 1616845	50774 3649717	129215 7701142	332341	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	++++ 165474	++++ 357320	11009 761008	29658 1498523	76579	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	13518 608107	20756 1350095	40025 2936848	101382 5931448	269520	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methylcyclohexane	DFB	Ave	12726 603999	24095 1335281	46778 2915820	115385 6144345	284608	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	++++ 1041928	++++ 2288723	93494 4983522	184247 10290598	477366	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	10498 546637	19459 1204706	39712 2744994	98483 5802900	251229	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	10408 553565	20341 1217479	39901 2805549	97853 5975743	255303	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	24946 1171582	47533 2494959	90374 5651797	224715 11988079	551274	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	DFB	Ave	++++ 5267866	120583 11282453	417650 25672347	570376 ++++	1414507	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,1,2-Trichloroethane	CBZ	Ave	7351 342867	13236 745194	26192 1692689	66054 3578266	163559	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	20870 1001201	38456 2169550	76465 4922137	190168 10368724	474075	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	20384 1023230	40478 2197601	78138 5024667	194617 10634076	485192	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	++++ 519953	17340 1166727	33199 2545403	89476 5351334	234939	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	11393 670836	22029 1492161	43079 3461156	114534 7355570	305144	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	10968 393543	20065 845267	31600 1920092	76203 3934135	191218	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	DFB	Ave	++++ 6560765	++++ 14290611	589870 31410019	1302162 62527603	3228381	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	11776 612371	23189 1347021	45379 3078496	114178 6645921	289002	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	8428 399049	16155 858234	31265 1918467	77374 4047132	191753	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	20844 901687	38909 1918625	76350 4301423	183684 9200516	447119	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	31708 1448264	59307 3117038	112604 6820807	273156 13954704	685723	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	31221 1433185	59792 3059129	116666 6722784	284977 14609775	709098	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	23014 1103288	45091 2376566	86191 5251689	214597 11415890	540205	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	48744 2309781	92885 4951594	182476 10830154	449205 23321274	1131471	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Bromoform	CBZ	Ave	9899 639375	19581 1466031	39409 3348355	105362 7790500	297208	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Styrene	CBZ	Ave	14046 889678	28286 1886727	58339 4146450	156170 9208954	417974	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Nonane	CBZ	Ave	21231 1004153	41024 2155419	74246 4625808	184125 9739462	470450	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	25524 1197268	48657 2514471	95057 5434192	233827 11913857	583811	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	16791 955942	34218 2074761	67156 4530909	166412 9567653	438860	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	5957 287030	11336 610443	20731 1306041	51807 2744920	132761	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	40026 1872860	75044 3910860	147054 8297948	351248 17891050	881723	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	10466 518603	19604 1096085	38044 2347273	95717 5042282	243598	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	9314 438172	17412 899846	34154 1916410	85634 4212857	210762	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	39549 1944259	76521 4140876	142064 8991959	350918 19067307	904168	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	16899 860708	32728 1871245	64709 4089459	157020 8662363	402663	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	10831 760476	21215 1692897	41590 3799806	114245 8219777	331323	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Decane	CBZ	Ave	34356 1323961	66308 2899818	90067 6347936	228662 13043205	605736	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	33076 1665008	64467 3635174	125814 8006175	306161 16645407	782809	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	31483 1608599	61112 3511155	115491 7688505	289894 16052420	744894	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	22836 1062910	41541 2272436	79143 5013130	192989 10741126	499795	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	46476 2391954	90270 5220359	171448 11401367	428195 +++++	1110128	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 +++++	1.00
Benzyl chloride	CBZ	Ave	22037 1423581	39936 3255258	80058 7270056	218576 15316291	625714	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	22008 1074571	40993 2314541	81142 5116956	195399 10985109	505725	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	39976 2071212	71751 4529433	150833 9970812	367535 20707754	972406	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	28263 1452957	53569 3163809	106309 6891651	261128 14521699	675966	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	25561 1289254	49013 2812741	93249 6139848	232973 12760868	602849	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1 Analy Batch No.: 722

SDG No.: _____

Instrument ID: MR GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/21/2014 17:35 Calibration End Date: 01/22/2014 00:00 Calibration ID: 111

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
1,2-Dichlorobenzene	CBZ	Ave	21416 1028637	39428 2227883	77115 4886017	187442 10345234	487103	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indane	CBZ	Ave	28837 1467917	55255 3145786	106311 6873229	263593 14575794	682649	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	24022 1512569	48937 3328692	96666 7446713	248136 15838377	685376	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	36020 1945915	69712 4248256	137273 9248468	338206 19007349	908939	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	37640 1958756	70425 4269771	135374 9335313	340495 19298881	918856	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Undecane	CBZ	Ave	28438 1605688	55378 3537200	102988 7558659	260625 15019730	752163	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	36510 2067651	75057 4488609	142400 9702773	359669 19977929	977181	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	23230 1291670	47098 2770367	91383 5976665	225678 12528997	613817	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	29438 1742871	65065 3734329	119545 8077878	293973 16552608	836308	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dodecane	CBZ	Ave	26671 1621814	52359 3386466	92539 7220626	239023 13988502	777210	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	17266 902985	32985 1935485	59329 4249934	147167 9042073	430967	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Naphthalene	CBZ	Ave	37032 2051032	71774 4360329	131452 9416429	327361 19269667	967369	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzo (b) thiophene	CBZ	Ave	28690 1631470	54073 3478243	103601 7484531	262687 15671829	754949	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	18030 813463	33097 1755059	55748 3905184	135606 8391233	395796	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	16474 869630	31015 1833316	57391 3940017	139301 8365157	417833	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	++++ 1116999	25491 2220866	51583 4787031	132723 9847978	500309	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	++++ 933096	23104 1820779	46763 3816871	113104 7720465	428902	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	1474851 1493637	1436259 1695064	1433419 1657672	1456070 2043832	1491821	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-002.D
 Lims ID: IC L1 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 21-Jan-2014 17:35:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic l1
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:19:02 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:19:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.512	8.527	-0.015	96	436679	4.00	
* 2 1,4-Difluorobenzene	114	10.809	10.819	-0.010	96	2227297	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.150	17.156	-0.006	89	1939890	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.922	19.925	-0.003	89	1474851	3.86	
6 Chlorodifluoromethane	67	3.410	3.407	0.003	92	2236	0.0476	
7 Propene	41	3.416	3.417	-0.001	98	12229	0.0667	
8 Dichlorodifluoromethane	85	3.459	3.461	-0.002	98	20296	0.0462	
9 Chloromethane	52	3.621	3.622	-0.001	99	3629	0.0561	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.632	3.634	-0.002	92	13422	0.0427	
11 Acetaldehyde	44	3.766	3.766	0.0	95	91366	0.4579	
12 Vinyl chloride	62	3.782	3.784	-0.002	87	8969	0.0452	
14 Butadiene	54	3.869	3.871	-0.002	60	7978	0.0478	
13 Butane	43	3.874	3.872	0.002	81	15734	0.0477	
15 Bromomethane	94	4.176	4.178	-0.002	89	8247	0.0496	
16 Chloroethane	64	4.316	4.319	-0.003	81	4830	0.0482	
17 Ethanol	31	4.419	4.437	-0.018	94	24209	0.3282	
18 Vinyl bromide	106	4.618	4.621	-0.003	94	7458	0.0464	
19 2-Methylbutane	43	4.678	4.682	-0.004	89	15828	0.0631	
21 Acrolein	56	4.883	4.893	-0.010	16	6055	0.0678	
20 Trichlorofluoromethane	101	4.893	4.898	-0.005	94	18186	0.0420	
22 Acetonitrile	40	4.942	4.955	-0.013	96	4366	0.0521	
23 Acetone	58	5.023	5.018	0.005	90	55956	0.1013	
24 Pentane	72	5.131	5.131	0.0	93	1598	0.0450	
25 Isopropyl alcohol	45	5.125	5.132	-0.007	68	28541	0.0844	
26 Ethyl ether	31	5.303	5.298	0.005	89	10419	0.0442	
27 1,1-Dichloroethene	96	5.605	5.610	-0.005	88	6486	0.0464	
28 Acrylonitrile	53	5.686	5.699	-0.013	87	6318	0.0407	
29 2-Methyl-2-propanol	59	5.745	5.736	0.009	65	6488	0.0188	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.794	5.805	-0.011	87	12674	0.0433	
31 Methylene Chloride	84	5.945	5.951	-0.006	93	8370	0.0611	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.966	5.972	-0.006	91	6595	0.0410	
33 Carbon disulfide	76	6.112	6.114	-0.002	98	20391	0.0429	
34 trans-1,2-Dichloroethene	96	6.781	6.784	-0.003	91	7949	0.0462	
35 2-Methylpentane	43	6.824	6.828	-0.004	88	20791	0.0431	
36 Methyl tert-butyl ether	73	6.948	6.935	0.013	94	20640	0.0442	
37 1,1-Dichloroethane	63	7.190	7.199	-0.009	87	13838	0.0447	
38 Vinyl acetate	43	7.315	7.320	-0.006	99	19724	0.0391	
39 2-Butanone (MEK)	72	7.762	7.763	-0.001	98	13150	0.1313	
40 Hexane	56	7.821	7.830	-0.009	78	7854	0.0456	
41 cis-1,2-Dichloroethene	96	8.193	8.201	-0.008	88	6836	0.0429	
42 Ethyl acetate	43	8.415	8.410	0.005	93	19920	0.0434	
43 Chloroform	83	8.544	8.555	-0.011	47	14230	0.0438	
44 Tetrahydrofuran	42	8.981	8.967	0.014	82	11497	0.0461	
45 1,1,1-Trichloroethane	97	9.590	9.603	-0.013	86	13378	0.0422	
46 1,2-Dichloroethane	62	9.687	9.691	-0.004	88	9807	0.0400	
49 n-Butanol	31	10.216	10.210	0.006	64	5402	0.0756	
47 Benzene	78	10.210	10.220	-0.010	90	21242	0.0433	
48 Cyclohexane	69	10.237	10.239	-0.002	80	3926	0.0473	
50 Carbon tetrachloride	117	10.248	10.255	-0.007	92	13532	0.0412	
51 2,3-Dimethylpentane	71	10.383	10.393	-0.010	85	4191	0.0392	
52 Thiophene	84	10.491	10.504	-0.013	81	11881	0.0403	
53 Isooctane	57	11.111	11.110	0.001	86	43264	0.0433	
54 n-Heptane	71	11.542	11.550	-0.008	92	8756	0.0466	
55 1,2-Dichloropropane	63	11.569	11.576	-0.007	64	8349	0.0417	
56 Trichloroethene	130	11.628	11.636	-0.008	80	8734	0.0415	
57 Dibromomethane	93	11.688	11.702	-0.014	87	8346	0.0433	
58 Dichlorobromomethane	83	11.887	11.895	-0.008	84	13379	0.0383	
60 Methyl methacrylate	41	12.038	12.045	-0.007	81	13518	0.0467	
61 Methylcyclohexane	83	12.588	12.594	-0.006	83	12726	0.0420	
62 4-Methyl-2-pentanone (MIBK)	43	13.101	13.106	-0.005	1	4525	0.008749	M
63 cis-1,3-Dichloropropene	75	13.154	13.159	-0.005	82	10498	0.0395	
64 trans-1,3-Dichloropropene	75	14.087	14.092	-0.005	83	10408	0.0377	
65 Toluene	91	14.265	14.269	-0.004	88	24946	0.0415	
66 1,1,2-Trichloroethane	83	14.346	14.354	-0.008	86	7351	0.0417	
67 2-Methylthiophene	97	14.465	14.472	-0.007	89	20870	0.0409	
68 3-Methylthiophene	97	14.745	14.754	-0.009	86	20384	0.0391	
69 2-Hexanone	58	14.945	14.940	0.005	82	14475	0.0576	
71 Chlorodibromomethane	129	15.328	15.334	-0.006	43	11393	0.0352	
70 n-Octane	85	15.333	15.335	-0.002	81	10968	0.0506	
72 Ethylene Dibromide	107	15.743	15.750	-0.007	80	11776	0.0379	
73 Tetrachloroethene	129	15.905	15.910	-0.005	88	8428	0.0411	
74 Chlorobenzene	112	17.231	17.232	-0.001	63	20844	0.0434	
75 2,3-Dimethylheptane	43	17.387	17.390	-0.003	93	31708	0.0429	
76 Ethylbenzene	91	17.727	17.734	-0.007	94	31221	0.0417	
77 2-Ethylthiophene	97	17.884	17.891	-0.007	84	23014	0.0404	
78 m-Xylene & p-Xylene	91	18.008	18.011	-0.003	98	48744	0.0821	
79 Bromoform	173	18.655	18.662	-0.007	84	9899	0.0321	
80 Styrene	104	18.779	18.776	0.003	89	14046	0.0336	
81 n-Nonane	57	18.843	18.845	-0.002	90	21231	0.0421	
82 o-Xylene	91	18.881	18.879	0.002	95	25524	0.0417	
83 1,1,2,2-Tetrachloroethane	83	19.420	19.422	-0.002	89	16791	0.0364	
84 1,2,3-Trichloropropane	110	19.679	19.688	-0.009	85	5957	0.0420	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	19.911	19.919	-0.008	45	40026	0.0426	
86 N-Propylbenzene	120	20.887	20.891	-0.004	96	10466	0.0409	
87 2-Chlorotoluene	126	20.909	20.915	-0.006	84	9314	0.0422	
88 4-Ethyltoluene	105	21.178	21.182	-0.004	95	39549	0.0410	
89 1,3,5-Trimethylbenzene	120	21.335	21.337	-0.002	90	16899	0.0393	
90 Alpha Methyl Styrene	118	21.761	21.770	-0.009	83	10831	0.0317	
91 n-Decane	57	22.046	22.050	-0.004	87	34356	0.0495	
92 tert-Butylbenzene	119	22.144	22.149	-0.005	85	33076	0.0395	
93 1,2,4-Trimethylbenzene	105	22.176	22.179	-0.003	91	31483	0.0395	
94 1,3-Dichlorobenzene	146	22.661	22.660	0.001	91	22836	0.0426	
95 sec-Butylbenzene	105	22.704	22.710	-0.006	94	46476	0.0391	
96 Benzyl chloride	91	22.828	22.831	-0.003	92	22037	0.0338	
97 1,4-Dichlorobenzene	146	22.845	22.847	-0.002	90	22008	0.0408	
98 4-Isopropyltoluene	119	23.082	23.081	0.001	80	39976	0.0393	M
99 1,2,3-Trimethylbenzene	105	23.136	23.134	0.002	89	28263	0.0394	
100 Butylcyclohexane	83	23.319	23.327	-0.008	86	25561	0.0399	
101 1,2-Dichlorobenzene	146	23.594	23.598	-0.004	90	21416	0.0414	
102 2,3-Dihydroindene	117	23.621	23.625	-0.004	92	28837	0.0398	
103 Indene	116	23.896	23.898	-0.002	88	24022	0.0338	
104 n-Butylbenzene	91	24.025	24.031	-0.006	94	36020	0.0381	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.894	24.892	0.002	82	37640	0.0394	
106 Undecane	57	24.942	24.950	-0.008	95	28438	0.0376	
107 1,2,4,5-Tetramethylbenzene	119	25.810	25.814	-0.004	92	36510	0.0367	
108 1,2,3,5-Tetramethylbenzene	119	25.934	25.942	-0.008	89	23230	0.0372	
109 1,2,3,4-Tetramethylbenzene	119	26.829	26.837	-0.008	90	29438	0.0354	
110 Dodecane	57	27.450	27.451	-0.001	89	26671	0.0369	
111 1,2,4-Trichlorobenzene	180	27.520	27.524	-0.004	86	17266	0.0396	
112 Naphthalene	128	27.757	27.760	-0.003	97	37032	0.0385	
113 Benzo(b)thiophene	134	27.946	27.953	-0.007	93	28690	0.0378	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	76	18030	0.0440	
115 1,2,3-Trichlorobenzene	180	28.329	28.333	-0.004	84	16474	0.0399	
116 2-Methylnaphthalene	142	29.806	29.812	-0.006	69	7890	0.1081	
117 1-Methylnaphthalene	142	30.119	30.124	-0.005	77	9223	0.1506	
A 118 C6 Range	1	7.840	7.778 - 7.875		0	78785	0.0472	
A 119 Toluene Range	1	14.252	14.206 - 14.314		0	59447	0.0275	
A 120 C8 Range	1	15.333	15.284 - 15.381		0	511272	0.1537	
S 124 Xylenes, Total	100				0		0.1238	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-002.D

Injection Date: 21-Jan-2014 17:35:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L1

Lab Sample ID:

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

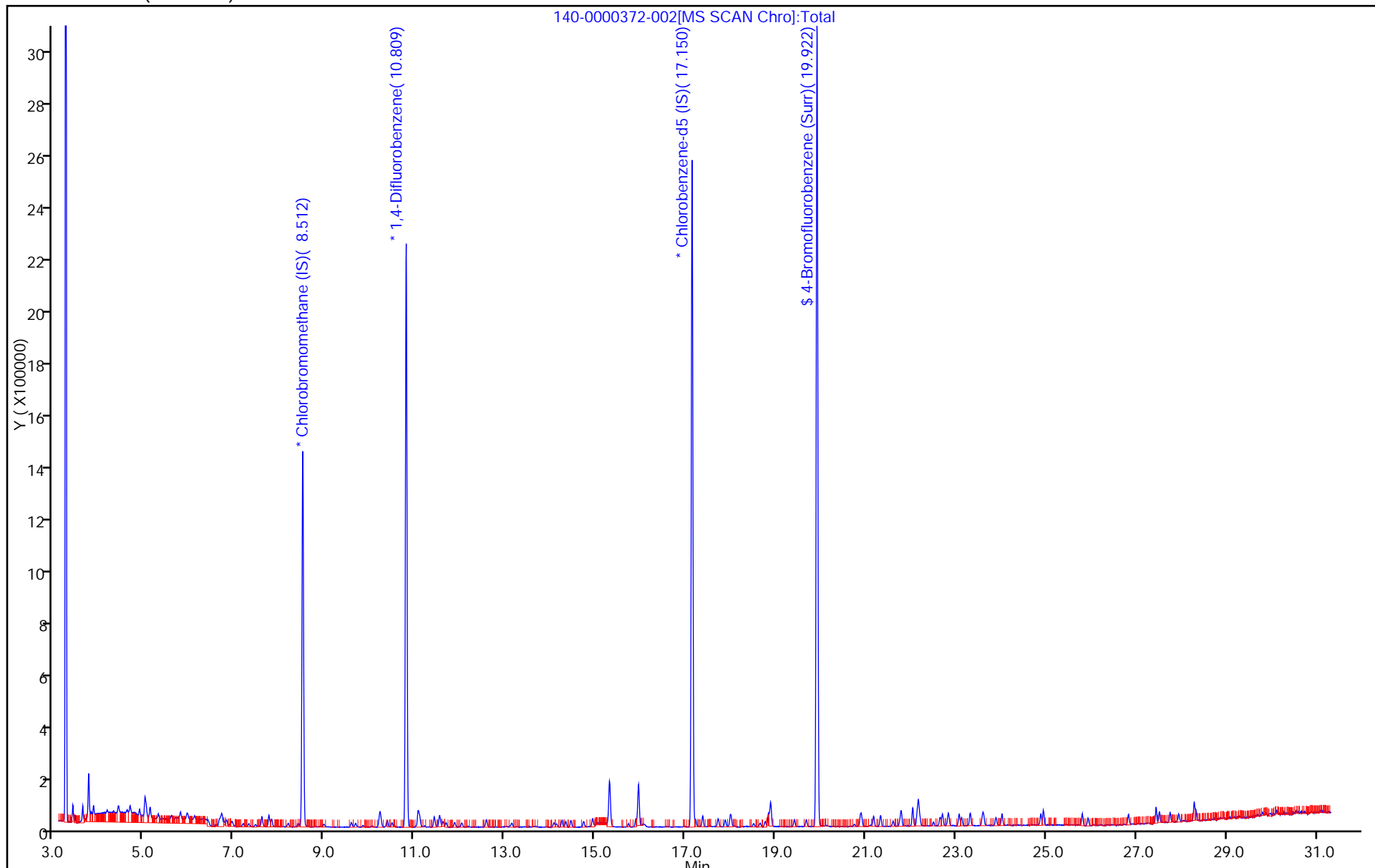
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-002.D

Injection Date: 21-Jan-2014 17:35:30

Instrument ID: MR

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

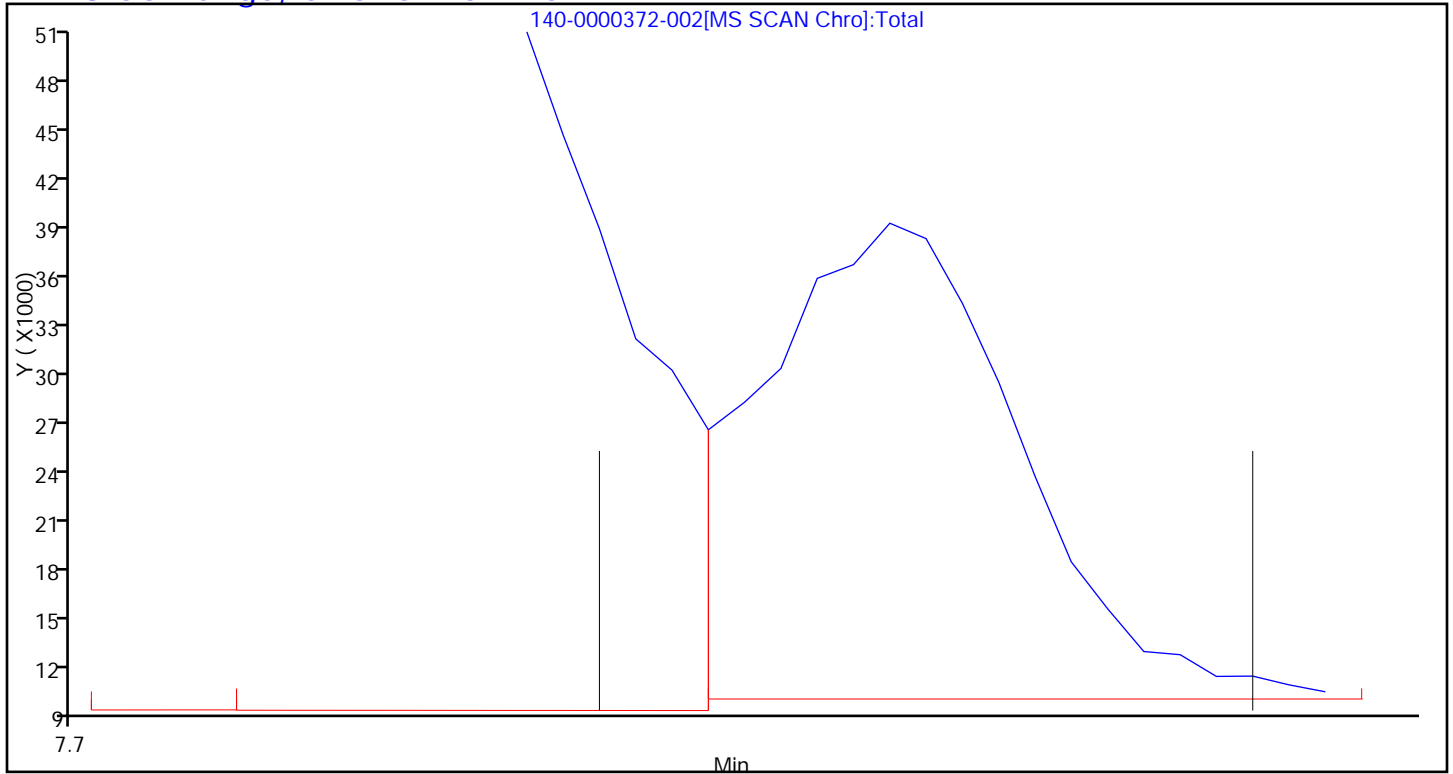
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-002.D

Injection Date: 21-Jan-2014 17:35:30

Instrument ID: MR

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

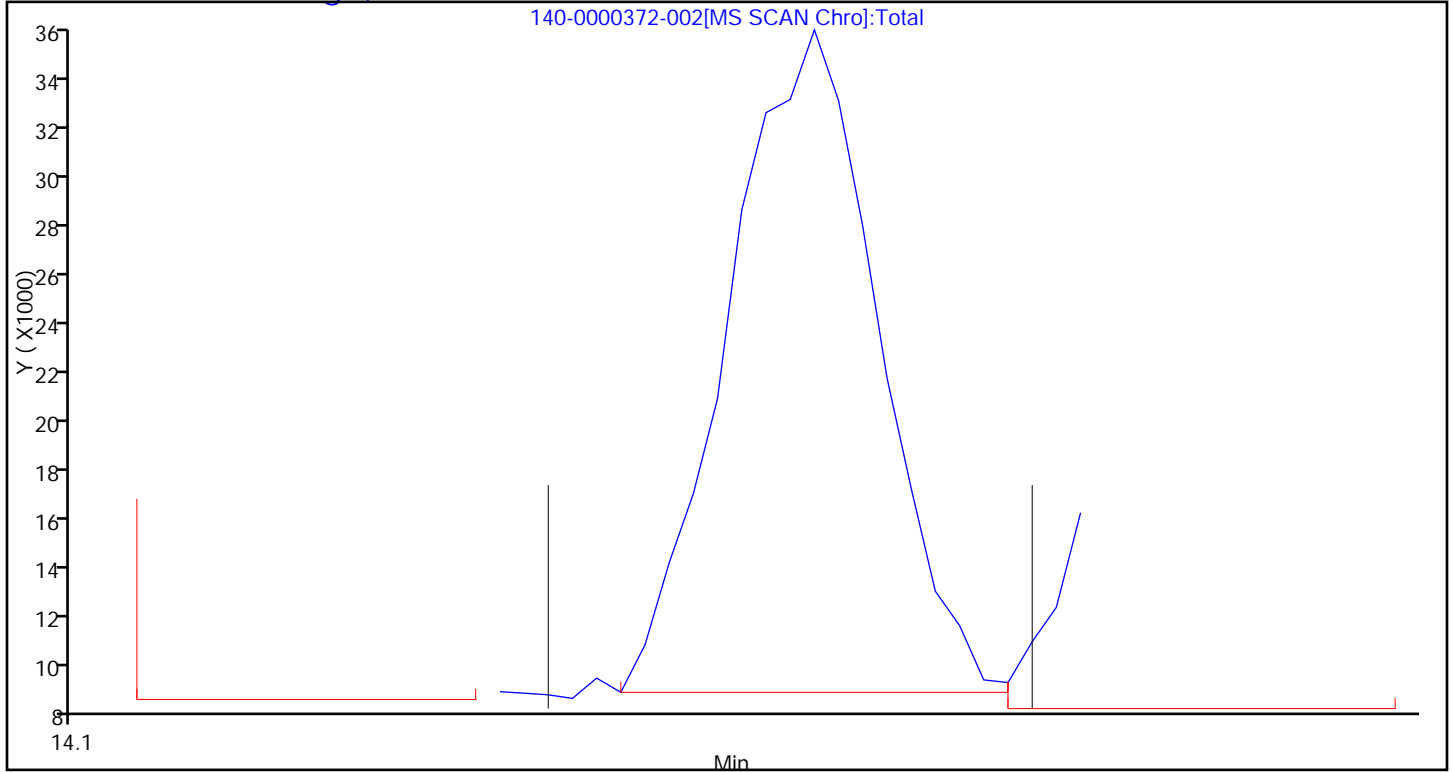
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-002.D

Injection Date: 21-Jan-2014 17:35:30

Instrument ID: MR

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

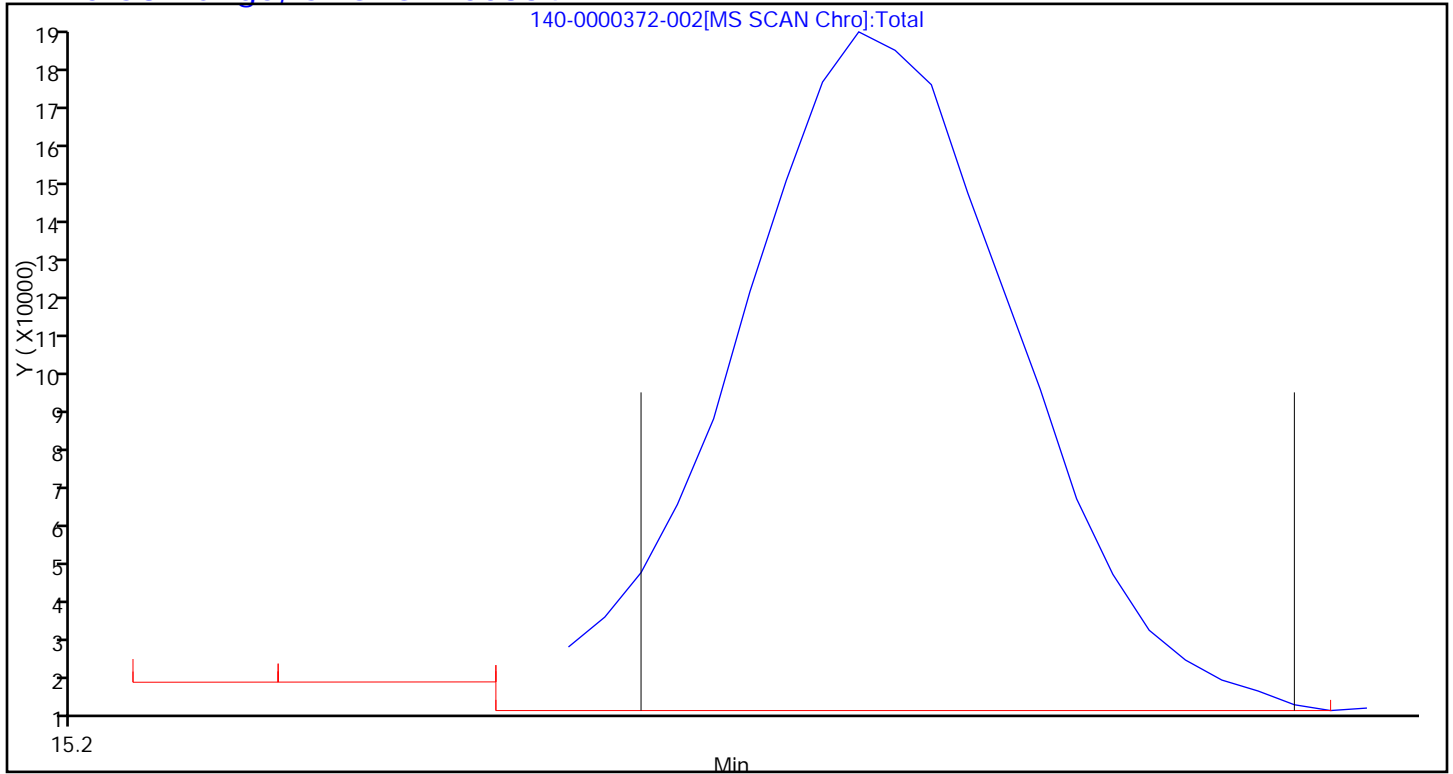
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



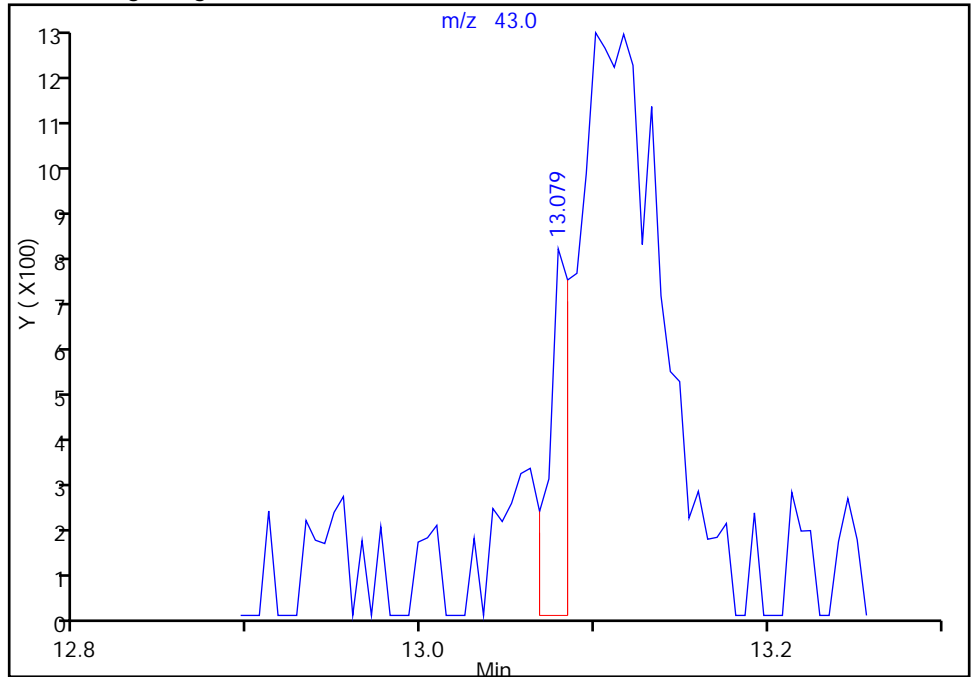
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-002.D
Injection Date: 21-Jan-2014 17:35:30 Instrument ID: MR
Lims ID: IC L1 Lab Sample ID:
Client ID:
Operator ID: 403648 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

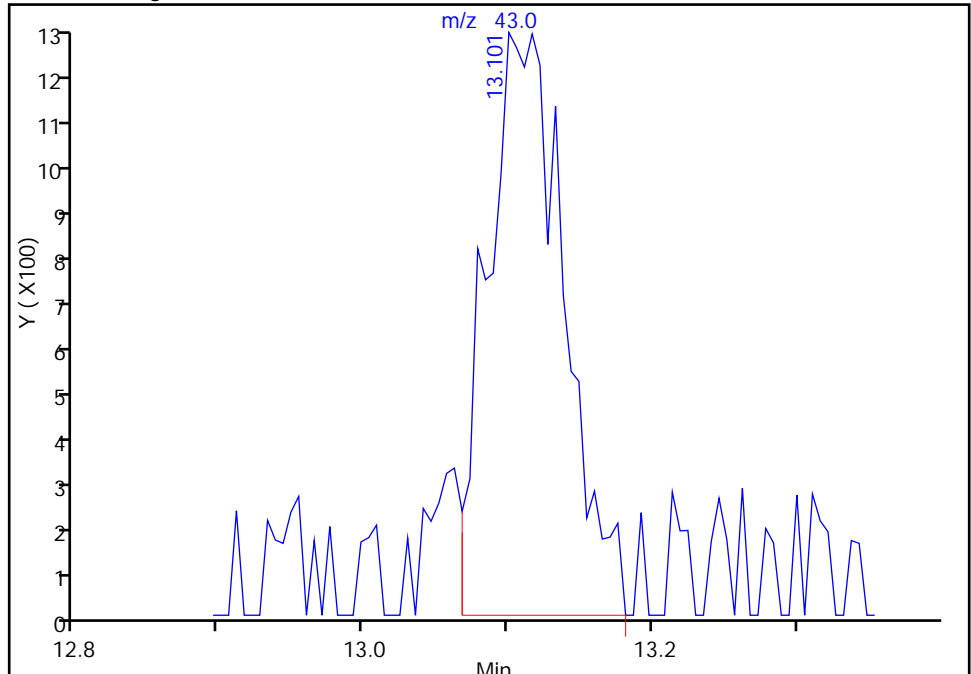
RT: 13.08
Response: 637
Amount: 0.001232

Processing Integration Results



RT: 13.10
Response: 4525
Amount: 0.008749

Manual Integration Results



Reviewer: barlozhetskayaa, 22-Jan-2014 16:07:51
Audit Action: Manually Integrated
Audit Reason: Split Peak

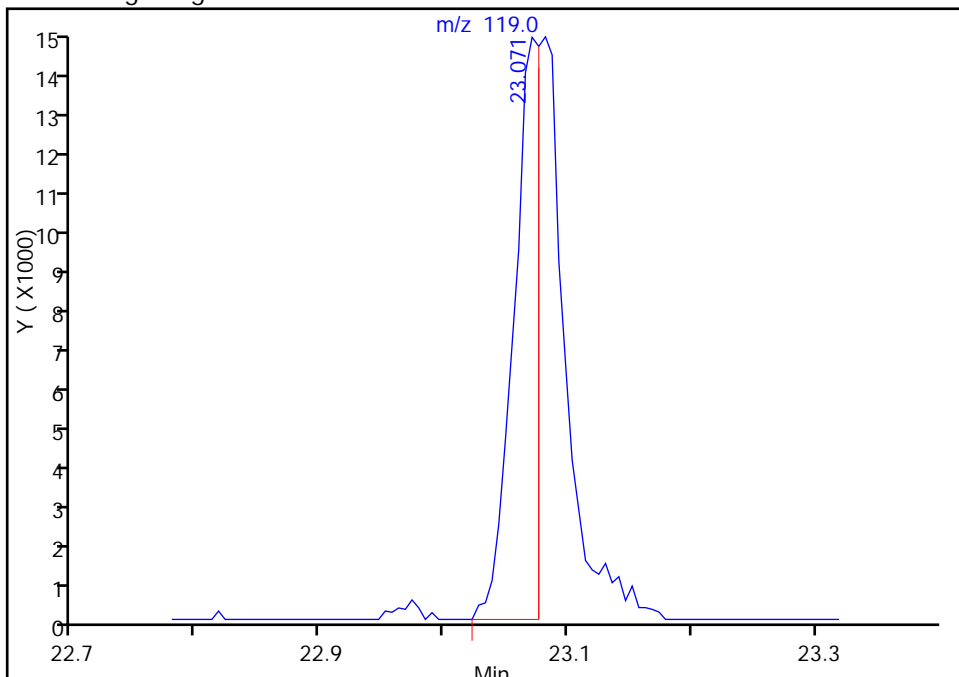
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-002.D
Injection Date: 21-Jan-2014 17:35:30 Instrument ID: MR
Lims ID: IC L1 Lab Sample ID:
Client ID:
Operator ID: 403648 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

98 4-Isopropyltoluene, CAS: 99-87-6

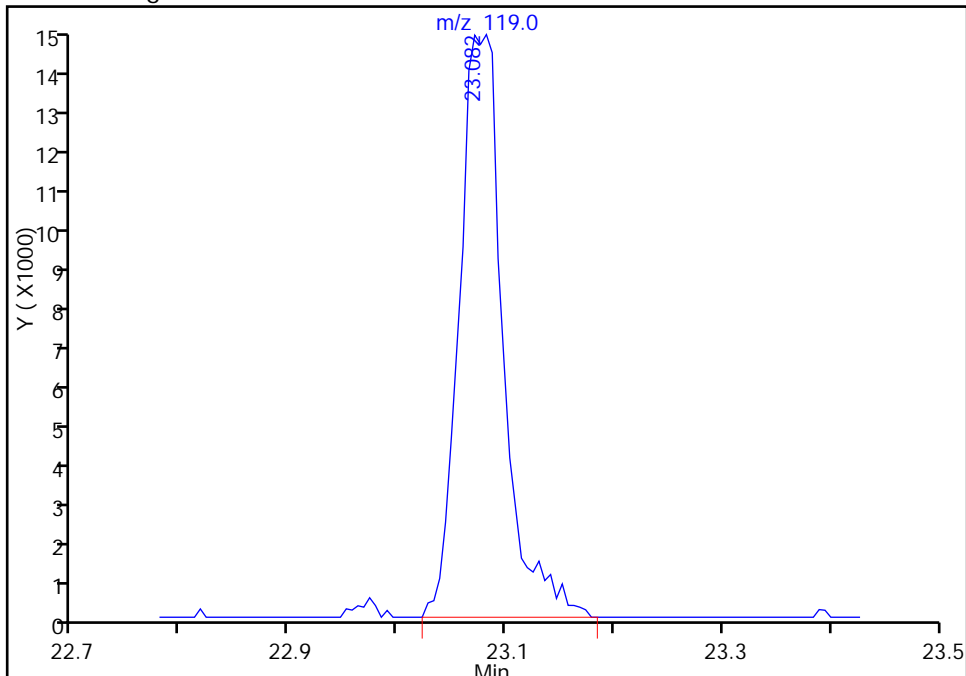
RT: 23.07
Response: 21077
Amount: 0.021853

Processing Integration Results



RT: 23.08
Response: 39976
Amount: 0.039308

Manual Integration Results



Reviewer: barlozhetskayaa, 22-Jan-2014 16:07:51
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-003.D
 Lims ID: IC L2 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 21-Jan-2014 18:23:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic I2
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:19:16 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.522	8.527	-0.005	97	417209	4.00	
* 2 1,4-Difluorobenzene	114	10.814	10.819	-0.005	96	2134478	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.155	17.156	-0.001	90	1860065	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.922	19.925	-0.003	91	1436259	3.92	
6 Chlorodifluoromethane	67	3.410	3.407	0.003	94	4427	0.0987	
7 Propene	41	3.421	3.417	0.004	97	22419	0.1280	
8 Dichlorodifluoromethane	85	3.464	3.461	0.003	99	38474	0.0918	
9 Chloromethane	52	3.626	3.622	0.004	86	6061	0.0980	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.637	3.634	0.003	94	26439	0.0880	
11 Acetaldehyde	44	3.766	3.766	0.0	98	164839	0.8647	
12 Vinyl chloride	62	3.788	3.784	0.004	96	17224	0.0909	
14 Butadiene	54	3.874	3.871	0.003	64	14761	0.0927	
13 Butane	43	3.874	3.872	0.002	86	28664	0.0910	
15 Bromomethane	94	4.181	4.178	0.003	96	14678	0.0924	
16 Chloroethane	64	4.316	4.319	-0.003	98	8574	0.0895	
17 Ethanol	31	4.429	4.437	-0.008	90	43611	0.6188	
18 Vinyl bromide	106	4.624	4.621	0.003	95	13194	0.0860	
19 2-Methylbutane	43	4.683	4.682	0.001	91	21821	0.0910	
21 Acrolein	56	4.899	4.893	0.006	23	11303	0.1324	
20 Trichlorofluoromethane	101	4.899	4.898	0.001	96	35627	0.0861	
22 Acetonitrile	40	4.958	4.955	0.003	98	5993	0.0749	
23 Acetone	58	5.023	5.018	0.005	90	106240	0.2014	
24 Pentane	72	5.136	5.131	0.005	93	3048	0.0899	
25 Isopropyl alcohol	45	5.136	5.132	0.004	64	41426	0.1282	
26 Ethyl ether	31	5.308	5.298	0.010	91	19414	0.0863	
27 1,1-Dichloroethene	96	5.616	5.610	0.006	92	11368	0.0852	
28 Acrylonitrile	53	5.702	5.699	0.003	95	12099	0.0815	
29 2-Methyl-2-propanol	59	5.751	5.736	0.015	91	35014	0.1065	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.804	5.805	-0.001	92	23729	0.0848	
31 Methylene Chloride	84	5.945	5.951	-0.006	93	12950	0.0989	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.966	5.972	-0.006	87	13651	0.0888	
33 Carbon disulfide	76	6.112	6.114	-0.002	99	37259	0.0820	
34 trans-1,2-Dichloroethene	96	6.781	6.784	-0.004	94	14330	0.0871	
35 2-Methylpentane	43	6.824	6.828	-0.004	94	38807	0.0841	
36 Methyl tert-butyl ether	73	6.942	6.935	0.007	94	37656	0.0843	
37 1,1-Dichloroethane	63	7.190	7.199	-0.009	93	24775	0.0837	
38 Vinyl acetate	43	7.320	7.320	0.0	99	38697	0.0802	
39 2-Butanone (MEK)	72	7.762	7.763	-0.001	98	16569	0.1731	
40 Hexane	56	7.827	7.830	-0.003	83	14559	0.0884	
41 cis-1,2-Dichloroethene	96	8.199	8.201	-0.002	93	13011	0.0855	
42 Ethyl acetate	43	8.414	8.410	0.004	94	35546	0.0811	
43 Chloroform	83	8.544	8.555	-0.011	76	26499	0.0854	
44 Tetrahydrofuran	42	8.981	8.967	0.014	92	19771	0.0830	
45 1,1,1-Trichloroethane	97	9.595	9.603	-0.008	92	24615	0.0812	
46 1,2-Dichloroethane	62	9.687	9.691	-0.004	92	20204	0.0859	
49 n-Butanol	31	10.226	10.210	0.016	66	7678	0.1121	
47 Benzene	78	10.210	10.220	-0.010	96	38778	0.0824	
48 Cyclohexane	69	10.237	10.239	-0.002	85	6882	0.0866	
50 Carbon tetrachloride	117	10.248	10.255	-0.007	94	25301	0.0804	
51 2,3-Dimethylpentane	71	10.388	10.393	-0.005	90	8432	0.0823	
52 Thiophene	84	10.496	10.504	-0.008	93	23272	0.0825	
53 Isooctane	57	11.105	11.110	-0.005	93	77787	0.0812	
54 n-Heptane	71	11.547	11.550	-0.003	91	15797	0.0878	
55 1,2-Dichloropropane	63	11.574	11.576	-0.002	76	16351	0.0853	
56 Trichloroethene	130	11.628	11.636	-0.008	91	17223	0.0855	
57 Dibromomethane	93	11.693	11.702	-0.009	90	15011	0.0812	
58 Dichlorobromomethane	83	11.892	11.895	-0.003	92	25461	0.0761	
60 Methyl methacrylate	41	12.043	12.045	-0.002	87	20756	0.0749	
61 Methylcyclohexane	83	12.588	12.594	-0.006	87	24095	0.0830	
62 4-Methyl-2-pentanone (MIBK)	43	13.117	13.106	0.011	92	26329	0.0531	
63 cis-1,3-Dichloropropene	75	13.154	13.159	-0.005	89	19459	0.0764	
64 trans-1,3-Dichloropropene	75	14.082	14.092	-0.010	89	20341	0.0769	
65 Toluene	91	14.265	14.269	-0.004	90	47533	0.0826	
66 1,1,2-Trichloroethane	83	14.351	14.354	-0.003	94	13236	0.0783	
67 2-Methylthiophene	97	14.470	14.472	-0.002	94	38456	0.0785	
68 3-Methylthiophene	97	14.750	14.754	-0.004	95	40478	0.0811	
69 2-Hexanone	58	14.945	14.940	0.005	88	17340	0.0720	
71 Chlorodibromomethane	129	15.327	15.334	-0.007	55	22029	0.0710	
70 n-Octane	85	15.333	15.335	-0.002	91	20065	0.0966	
72 Ethylene Dibromide	107	15.743	15.750	-0.007	92	23189	0.0779	
73 Tetrachloroethene	129	15.904	15.910	-0.006	93	16155	0.0821	
74 Chlorobenzene	112	17.231	17.232	-0.001	84	38909	0.0845	
75 2,3-Dimethylheptane	43	17.387	17.390	-0.003	94	59307	0.0836	
76 Ethylbenzene	91	17.732	17.734	-0.002	98	59792	0.0834	
77 2-Ethylthiophene	97	17.889	17.891	-0.002	94	45091	0.0826	
78 m-Xylene & p-Xylene	91	18.007	18.011	-0.004	98	92885	0.1632	
79 Bromoform	173	18.660	18.662	-0.002	94	19581	0.0663	
80 Styrene	104	18.768	18.776	-0.008	94	28286	0.0706	
81 n-Nonane	57	18.838	18.845	-0.007	91	41024	0.0848	
82 o-Xylene	91	18.876	18.879	-0.003	97	48657	0.0829	
83 1,1,2,2-Tetrachloroethane	83	19.420	19.422	-0.002	95	34218	0.0774	
84 1,2,3-Trichloropropane	110	19.684	19.688	-0.004	90	11336	0.0833	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	19.916	19.919	-0.003	83	75044	0.0832	
86 N-Propylbenzene	120	20.887	20.891	-0.004	97	19604	0.0799	
87 2-Chlorotoluene	126	20.909	20.915	-0.007	94	17412	0.0823	
88 4-Ethyltoluene	105	21.178	21.182	-0.004	96	76521	0.0827	
89 1,3,5-Trimethylbenzene	120	21.329	21.337	-0.008	94	32728	0.0795	
90 Alpha Methyl Styrene	118	21.761	21.770	-0.010	87	21215	0.0647	
91 n-Decane	57	22.041	22.050	-0.009	87	66308	0.0996	
92 tert-Butylbenzene	119	22.138	22.149	-0.011	88	64467	0.0804	
93 1,2,4-Trimethylbenzene	105	22.170	22.179	-0.009	94	61112	0.0800	
94 1,3-Dichlorobenzene	146	22.656	22.660	-0.004	96	41541	0.0809	
95 sec-Butylbenzene	105	22.704	22.710	-0.006	96	90270	0.0792	
96 Benzyl chloride	91	22.817	22.831	-0.014	94	39936	0.0638	
97 1,4-Dichlorobenzene	146	22.839	22.847	-0.008	92	40993	0.0792	
98 4-Isopropyltoluene	119	23.076	23.081	-0.005	79	71751	0.0736	
99 1,2,3-Trimethylbenzene	105	23.125	23.134	-0.009	84	53569	0.0778	
100 Butylcyclohexane	83	23.319	23.327	-0.008	90	49013	0.0799	
101 1,2-Dichlorobenzene	146	23.594	23.598	-0.004	92	39428	0.0795	
102 2,3-Dihydroindene	117	23.621	23.625	-0.004	93	55255	0.0796	
103 Indene	116	23.890	23.898	-0.008	89	48937	0.0718	
104 n-Butylbenzene	91	24.025	24.031	-0.006	96	69712	0.0770	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.888	24.892	-0.004	85	70425	0.0769	
106 Undecane	57	24.947	24.950	-0.003	94	55378	0.0763	
107 1,2,4,5-Tetramethylbenzene	119	25.810	25.814	-0.004	96	75057	0.0786	
108 1,2,3,5-Tetramethylbenzene	119	25.940	25.942	-0.002	94	47098	0.0787	
109 1,2,3,4-Tetramethylbenzene	119	26.829	26.837	-0.008	96	65065	0.0815	
110 Dodecane	57	27.444	27.451	-0.007	93	52359	0.0755	
111 1,2,4-Trichlorobenzene	180	27.520	27.524	-0.004	90	32985	0.0790	
112 Naphthalene	128	27.757	27.760	-0.003	98	71774	0.0778	
113 Benzo(b)thiophene	134	27.946	27.953	-0.007	95	54073	0.0743	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	81	33097	0.0842	
115 1,2,3-Trichlorobenzene	180	28.334	28.333	0.001	89	31015	0.0783	
116 2-Methylnaphthalene	142	29.811	29.812	-0.001	93	25491	0.3641	
117 1-Methylnaphthalene	142	30.119	30.124	-0.005	91	23104	0.3934	
A 118 C6 Range	1	7.842	7.778 -	7.875	0	135790	0.0849	
A 119 Toluene Range	1	14.252	14.206 -	14.324	0	120583	0.0581	
A 120 C8 Range	1	15.333	15.279 -	15.387	0	511876	0.1606	
S 124 Xylenes, Total	100				0		0.2461	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-003.D

Injection Date: 21-Jan-2014 18:23:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L2

Lab Sample ID:

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-003.D

Injection Date: 21-Jan-2014 18:23:30

Instrument ID: MR

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

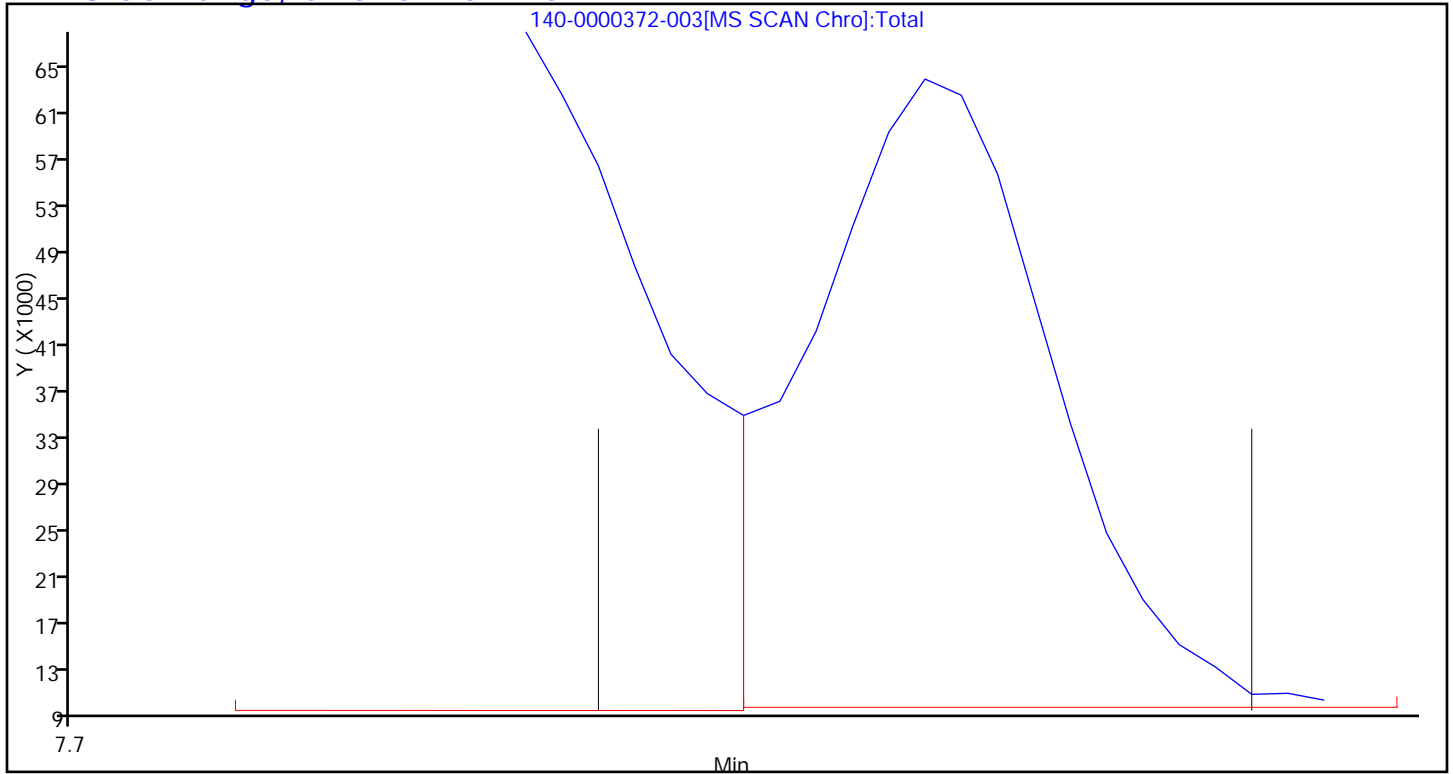
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-003.D

Injection Date: 21-Jan-2014 18:23:30

Instrument ID: MR

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

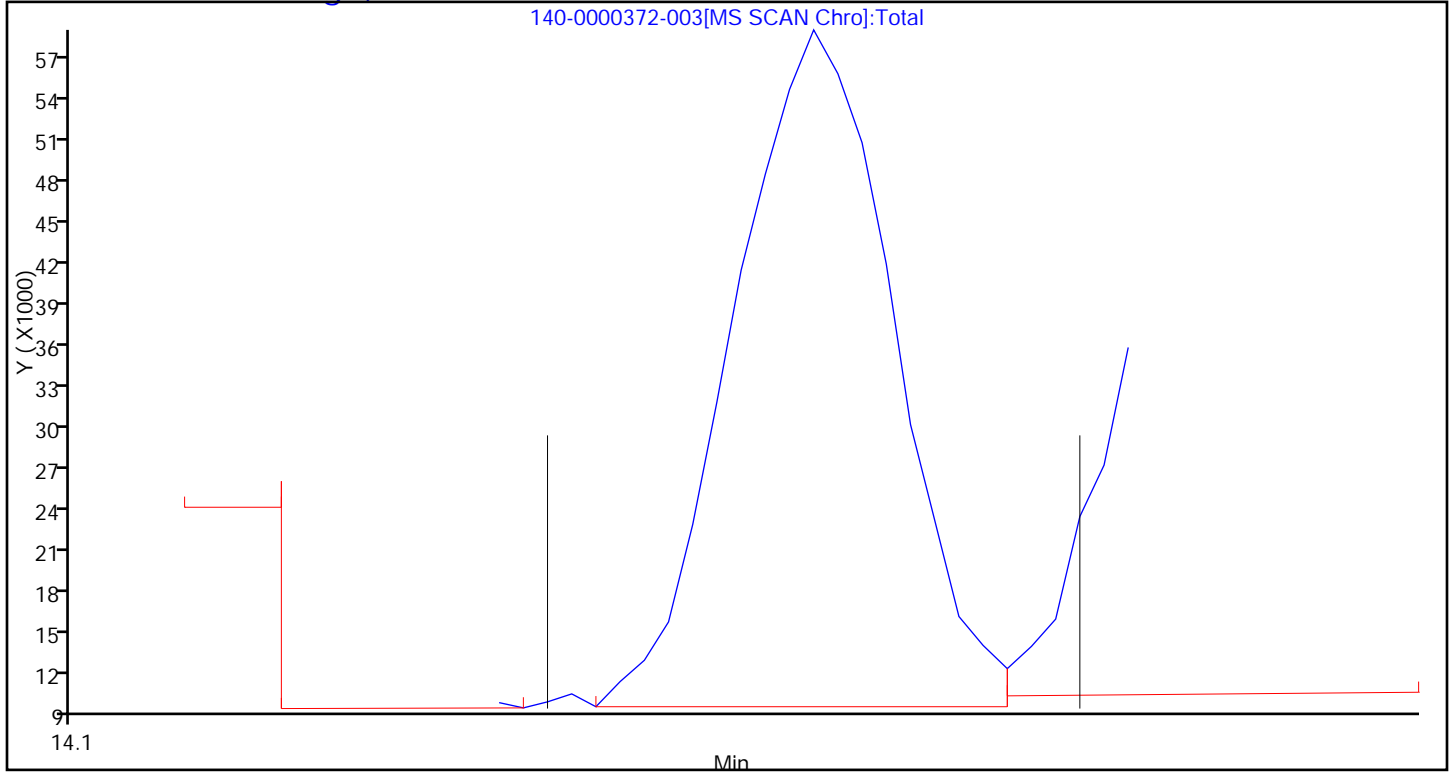
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-003.D

Injection Date: 21-Jan-2014 18:23:30

Instrument ID: MR

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

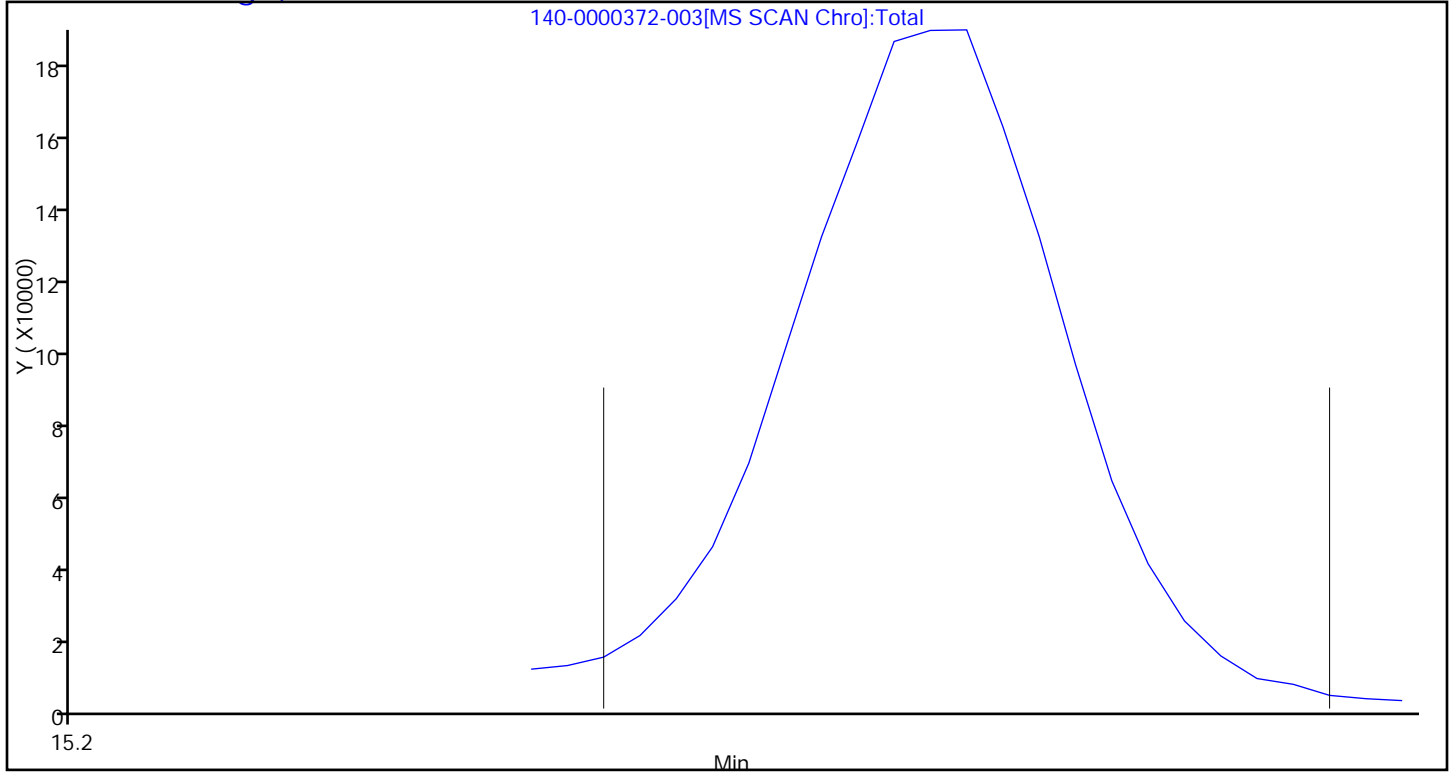
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-004.D
 Lims ID: IC L3 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 21-Jan-2014 19:12:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic I3
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:19:25 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:19:25

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.522	8.527	-0.005	97	412417	4.00	
* 2 1,4-Difluorobenzene	114	10.814	10.819	-0.005	96	2113431	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.155	17.156	-0.001	90	1844303	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.922	19.925	-0.003	90	1433419	3.95	
6 Chlorodifluoromethane	67	3.405	3.407	-0.002	95	7749	0.1747	
7 Propene	41	3.421	3.417	0.004	97	32280	0.1865	
8 Dichlorodifluoromethane	85	3.464	3.461	0.003	99	71991	0.1737	
9 Chloromethane	52	3.626	3.622	0.004	80	11338	0.1854	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.637	3.634	0.003	93	51233	0.1726	
11 Acetaldehyde	44	3.766	3.766	0.0	97	136513	0.7244	
12 Vinyl chloride	62	3.788	3.784	0.004	97	32109	0.1715	
14 Butadiene	54	3.874	3.871	0.003	65	27293	0.1733	
13 Butane	43	3.874	3.872	0.002	85	55456	0.1781	
15 Bromomethane	94	4.181	4.178	0.003	95	27466	0.1749	
16 Chloroethane	64	4.322	4.319	0.003	95	15867	0.1676	
17 Ethanol	31	4.429	4.437	-0.008	93	65313	0.9374	
18 Vinyl bromide	106	4.618	4.621	-0.003	98	25232	0.1664	
19 2-Methylbutane	43	4.683	4.682	0.001	91	41891	0.1768	
21 Acrolein	56	4.899	4.893	0.006	28	15943	0.1889	
20 Trichlorofluoromethane	101	4.899	4.898	0.001	97	68377	0.1672	
22 Acetonitrile	40	4.958	4.955	0.003	94	11179	0.1413	
23 Acetone	58	5.023	5.018	0.005	85	65770	0.1261	
24 Pentane	72	5.130	5.131	-0.001	95	5308	0.1584	
25 Isopropyl alcohol	45	5.136	5.132	0.004	50	56178	0.1759	
26 Ethyl ether	31	5.303	5.298	0.005	93	37139	0.1670	
27 1,1-Dichloroethene	96	5.610	5.610	0.0	95	21670	0.1642	
28 Acrylonitrile	53	5.697	5.699	-0.002	94	24804	0.1690	
29 2-Methyl-2-propanol	59	5.740	5.736	0.004	94	52935	0.1628	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.805	5.805	0.0	95	44554	0.1611	
31 Methylene Chloride	84	5.950	5.951	-0.001	94	23696	0.1831	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.972	5.972	0.0	91	24945	0.1641	
33 Carbon disulfide	76	6.112	6.114	-0.002	99	73327	0.1633	
34 trans-1,2-Dichloroethene	96	6.781	6.784	-0.003	95	27951	0.1718	
35 2-Methylpentane	43	6.824	6.828	-0.004	97	75162	0.1649	
36 Methyl tert-butyl ether	73	6.942	6.935	0.007	96	71908	0.1629	
37 1,1-Dichloroethane	63	7.196	7.199	-0.003	98	48284	0.1650	
38 Vinyl acetate	43	7.320	7.320	0.0	99	76715	0.1609	
39 2-Butanone (MEK)	72	7.767	7.763	0.004	96	14981	0.1583	
40 Hexane	56	7.827	7.830	-0.003	84	26724	0.1642	
41 cis-1,2-Dichloroethene	96	8.193	8.201	-0.008	96	24801	0.1649	
42 Ethyl acetate	43	8.414	8.410	0.004	96	69011	0.1593	
43 Chloroform	83	8.549	8.555	-0.006	81	49612	0.1617	
44 Tetrahydrofuran	42	8.975	8.967	0.008	92	39805	0.1690	
45 1,1,1-Trichloroethane	97	9.601	9.603	-0.002	95	48619	0.1622	
46 1,2-Dichloroethane	62	9.687	9.691	-0.004	94	37103	0.1593	
49 n-Butanol	31	10.221	10.210	0.011	65	9383	0.1383	
47 Benzene	78	10.215	10.220	-0.005	97	78571	0.1686	
48 Cyclohexane	69	10.232	10.239	-0.007	88	12454	0.1582	
50 Carbon tetrachloride	117	10.248	10.255	-0.007	91	48370	0.1553	
51 2,3-Dimethylpentane	71	10.393	10.393	0.0	89	16830	0.1660	
52 Thiophene	84	10.501	10.504	-0.003	95	46019	0.1647	
53 Isooctane	57	11.105	11.110	-0.005	97	153435	0.1617	
54 n-Heptane	71	11.547	11.550	-0.003	93	27927	0.1568	
55 1,2-Dichloropropane	63	11.574	11.576	-0.002	81	30123	0.1587	
56 Trichloroethene	130	11.628	11.636	-0.008	88	32873	0.1647	
57 Dibromomethane	93	11.704	11.702	0.002	93	28881	0.1577	
58 Dichlorobromomethane	83	11.893	11.895	-0.002	96	50774	0.1532	
59 1,4-Dioxane	88	11.930	11.918	0.012	83	11009	0.1502	
60 Methyl methacrylate	41	12.044	12.045	-0.001	91	40025	0.1458	
61 Methylcyclohexane	83	12.594	12.594	0.0	91	46778	0.1628	
62 4-Methyl-2-pentanone (MIBK)	43	13.111	13.106	0.005	96	93494	0.1905	
63 cis-1,3-Dichloropropene	75	13.154	13.159	-0.005	95	39712	0.1574	
64 trans-1,3-Dichloropropene	75	14.093	14.092	0.001	95	39901	0.1520	
65 Toluene	91	14.260	14.269	-0.009	93	90374	0.1583	
66 1,1,2-Trichloroethane	83	14.351	14.354	-0.003	93	26192	0.1563	
67 2-Methylthiophene	97	14.465	14.472	-0.007	97	76465	0.1575	
68 3-Methylthiophene	97	14.750	14.754	-0.004	98	78138	0.1578	
69 2-Hexanone	58	14.945	14.940	0.005	89	33199	0.1390	
71 Chlorodibromomethane	129	15.333	15.334	-0.001	63	43079	0.1400	
70 n-Octane	85	15.333	15.335	-0.002	96	31600	0.1534	
72 Ethylene Dibromide	107	15.743	15.750	-0.007	98	45379	0.1538	
73 Tetrachloroethene	129	15.910	15.910	0.0	94	31265	0.1602	
74 Chlorobenzene	112	17.231	17.232	-0.001	92	76350	0.1673	
75 2,3-Dimethylheptane	43	17.387	17.390	-0.003	95	112604	0.1602	
76 Ethylbenzene	91	17.732	17.734	-0.002	98	116666	0.1641	
77 2-Ethylthiophene	97	17.889	17.891	-0.002	97	86191	0.1593	
78 m-Xylene & p-Xylene	91	18.007	18.011	-0.004	98	182476	0.3234	
79 Bromoform	173	18.660	18.662	-0.002	94	39409	0.1346	
80 Styrene	104	18.773	18.776	-0.003	96	58339	0.1469	
81 n-Nonane	57	18.843	18.845	-0.002	95	74246	0.1548	
82 o-Xylene	91	18.876	18.879	-0.003	97	95057	0.1632	
83 1,1,2,2-Tetrachloroethane	83	19.420	19.422	-0.002	98	67156	0.1531	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	19.690	19.688	0.002	92	20731	0.1536	
85 Isopropylbenzene	105	19.922	19.919	0.003	95	147054	0.1644	
86 N-Propylbenzene	120	20.887	20.891	-0.004	98	38044	0.1563	
87 2-Chlorotoluene	126	20.914	20.915	-0.001	95	34154	0.1629	
88 4-Ethyltoluene	105	21.178	21.182	-0.004	98	142064	0.1548	
89 1,3,5-Trimethylbenzene	120	21.329	21.337	-0.008	92	64709	0.1584	
90 Alpha Methyl Styrene	118	21.771	21.770	0.001	86	41590	0.1280	
91 n-Decane	57	22.046	22.050	-0.004	87	90067	0.1364	
92 tert-Butylbenzene	119	22.149	22.149	0.0	86	125814	0.1582	
93 1,2,4-Trimethylbenzene	105	22.176	22.179	-0.003	95	115491	0.1525	
94 1,3-Dichlorobenzene	146	22.656	22.660	-0.004	95	79143	0.1554	
95 sec-Butylbenzene	105	22.710	22.710	0.0	95	171448	0.1517	
96 Benzyl chloride	91	22.828	22.831	-0.003	96	80058	0.1290	
97 1,4-Dichlorobenzene	146	22.844	22.847	-0.003	93	81142	0.1581	
98 4-Isopropyltoluene	119	23.082	23.081	0.001	88	150833	0.1560	
99 1,2,3-Trimethylbenzene	105	23.130	23.134	-0.004	98	106309	0.1558	
100 Butylcyclohexane	83	23.324	23.327	-0.003	88	93249	0.1532	
101 1,2-Dichlorobenzene	146	23.594	23.598	-0.004	93	77115	0.1568	
102 2,3-Dihydroindene	117	23.621	23.625	-0.004	91	106311	0.1545	
103 Indene	116	23.896	23.898	-0.002	88	96666	0.1430	
104 n-Butylbenzene	91	24.031	24.031	0.0	97	137273	0.1528	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.888	24.892	-0.004	88	135374	0.1492	
106 Undecane	57	24.947	24.950	-0.003	95	102988	0.1432	
107 1,2,4,5-Tetramethylbenzene	119	25.810	25.814	-0.004	97	142400	0.1504	
108 1,2,3,5-Tetramethylbenzene	119	25.940	25.942	-0.002	94	91383	0.1540	
109 1,2,3,4-Tetramethylbenzene	119	26.835	26.837	-0.002	97	119545	0.1510	
110 Dodecane	57	27.450	27.451	-0.001	92	92539	0.1345	
111 1,2,4-Trichlorobenzene	180	27.525	27.524	0.001	93	59329	0.1433	
112 Naphthalene	128	27.757	27.760	-0.003	99	131452	0.1437	
113 Benzo(b)thiophene	134	27.951	27.953	-0.002	98	103601	0.1435	
114 Hexachlorobutadiene	225	28.291	28.296	-0.005	82	55748	0.1430	
115 1,2,3-Trichlorobenzene	180	28.334	28.333	0.001	91	57391	0.1461	
116 2-Methylnaphthalene	142	29.811	29.812	-0.001	96	51583	0.7431	
117 1-Methylnaphthalene	142	30.124	30.124	0.0	97	46763	0.8031	
A 118 C6 Range	1	7.827	7.767 -	7.886	0	370756	0.2340	
A 119 Toluene Range	1	14.286	14.206 -	14.357	0	417650	0.2034	
A 120 C8 Range	1	15.338	15.284 -	15.392	0	589870	0.1869	
S 124 Xylenes, Total	100				0		0.4867	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-004.D

Injection Date: 21-Jan-2014 19:12:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L3

Lab Sample ID:

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

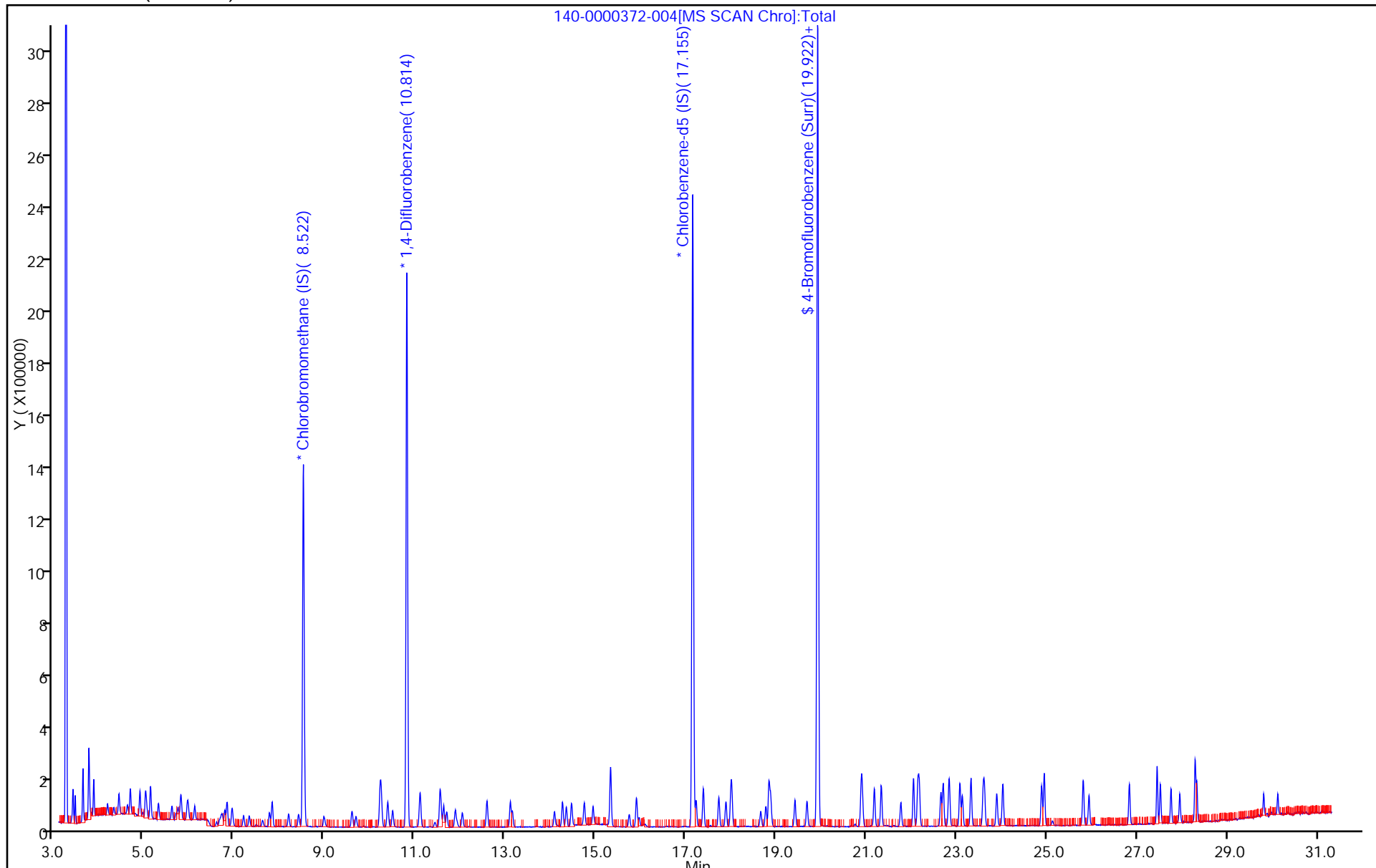
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-004.D

Injection Date: 21-Jan-2014 19:12:30

Instrument ID: MR

Lims ID: IC L3

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

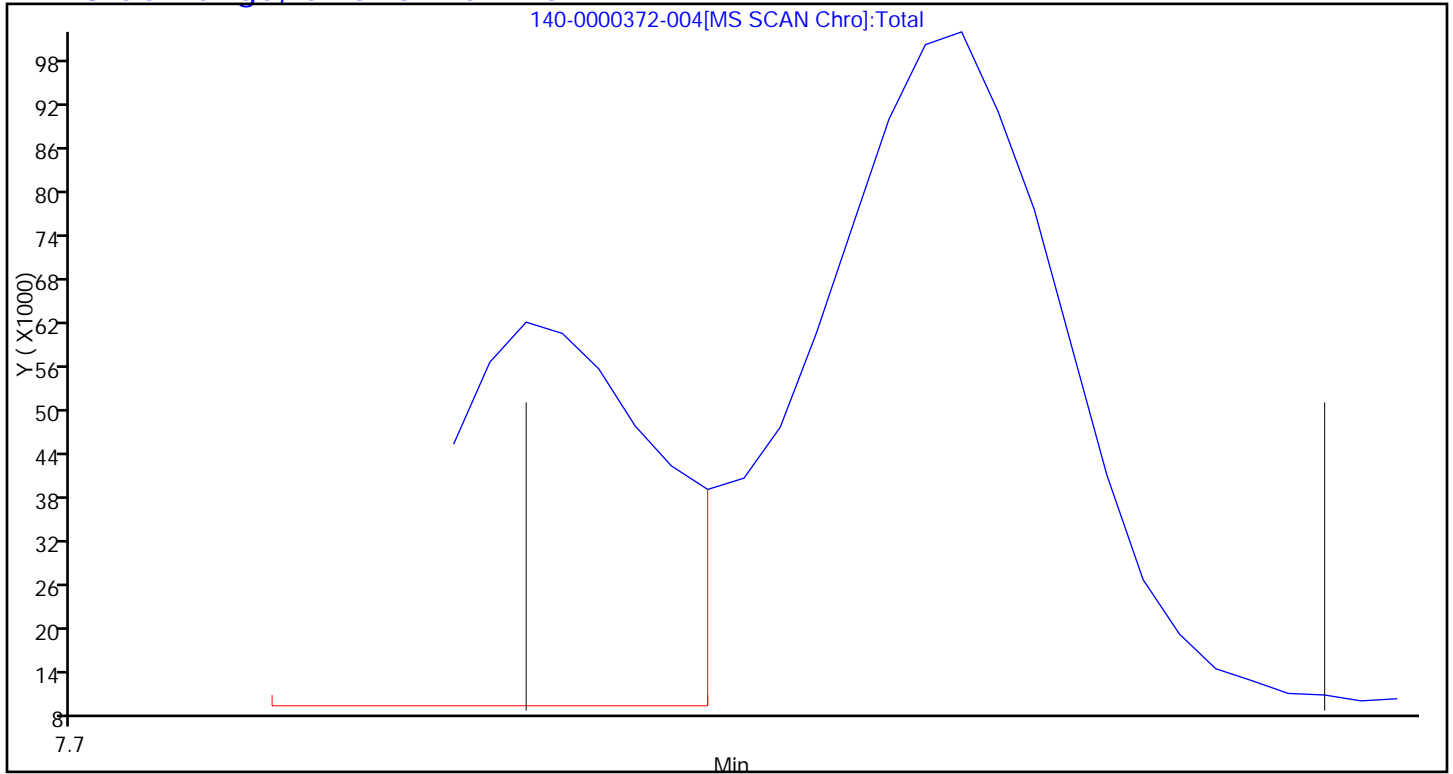
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-004.D

Injection Date: 21-Jan-2014 19:12:30

Instrument ID: MR

Lims ID: IC L3

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

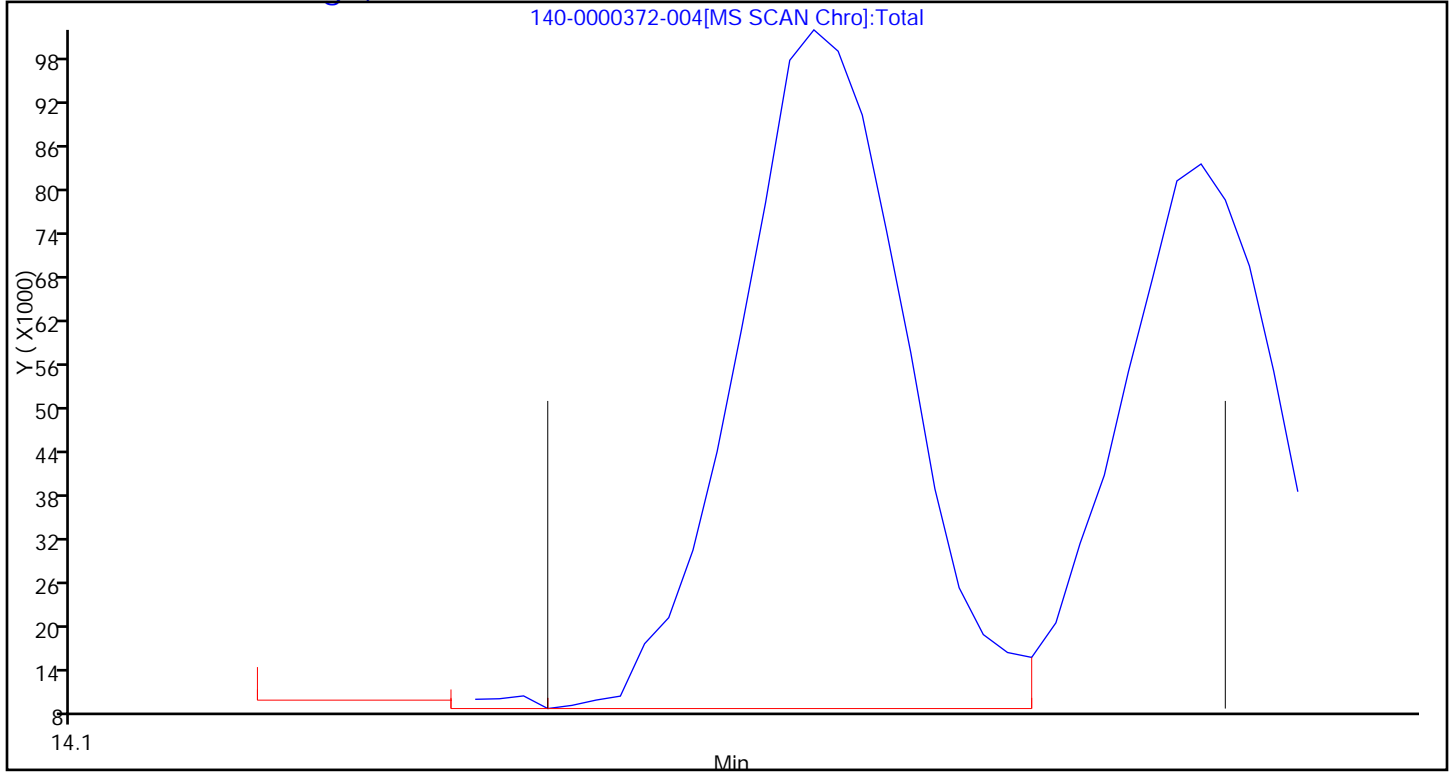
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-004.D

Injection Date: 21-Jan-2014 19:12:30

Instrument ID: MR

Lims ID: IC L3

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

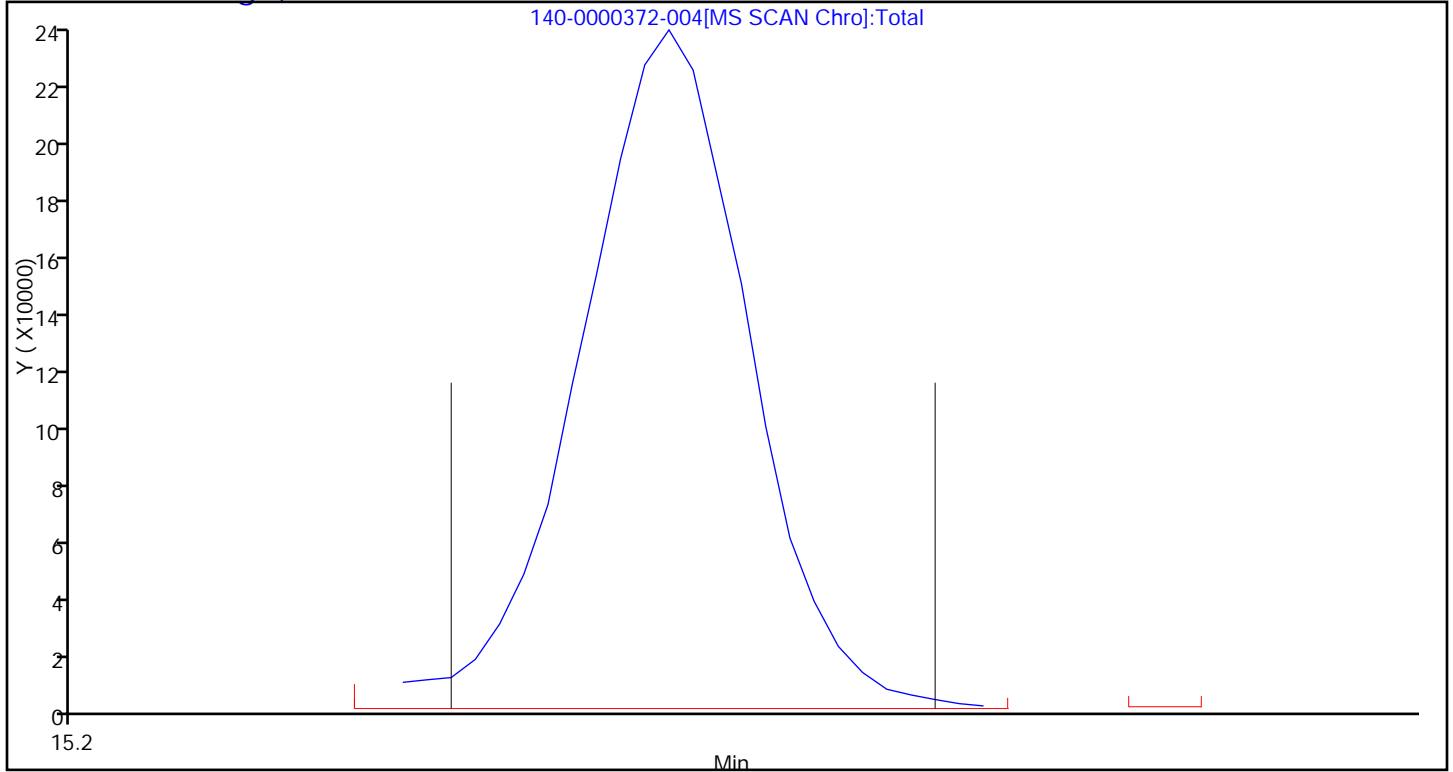
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-005.D
 Lims ID: IC L4 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 21-Jan-2014 20:00:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic l4
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:19:33 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:19:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.522	8.527	-0.005	97	412856	4.00	
* 2 1,4-Difluorobenzene	114	10.814	10.819	-0.005	96	2107765	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.150	17.156	-0.006	90	1831247	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.922	19.925	-0.003	92	1456070	4.04	
6 Chlorodifluoromethane	67	3.410	3.407	0.003	94	18538	0.4175	
7 Propene	41	3.416	3.417	-0.001	98	106482	0.6145	
8 Dichlorodifluoromethane	85	3.464	3.461	0.003	100	176297	0.4249	
9 Chloromethane	52	3.626	3.622	0.004	99	26974	0.4407	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.637	3.634	0.003	93	127891	0.4303	
11 Acetaldehyde	44	3.766	3.766	0.0	97	505581	2.68	
12 Vinyl chloride	62	3.782	3.784	-0.002	98	80999	0.4322	
14 Butadiene	54	3.874	3.871	0.003	97	66578	0.4223	
13 Butane	43	3.874	3.872	0.002	89	140570	0.4510	
15 Bromomethane	94	4.182	4.178	0.004	98	64442	0.4099	
16 Chloroethane	64	4.322	4.319	0.003	98	40753	0.4301	
17 Ethanol	31	4.430	4.437	-0.007	92	170340	2.44	
18 Vinyl bromide	106	4.618	4.621	-0.003	97	62540	0.4119	
19 2-Methylbutane	43	4.683	4.682	0.001	91	104747	0.4416	
21 Acrolein	56	4.888	4.893	-0.005	92	36889	0.4367	
20 Trichlorofluoromethane	101	4.899	4.898	0.001	98	167025	0.4080	
22 Acetonitrile	40	4.953	4.955	-0.002	100	35309	0.4458	
23 Acetone	58	5.012	5.018	-0.006	91	299859	0.5743	
24 Pentane	72	5.131	5.131	0.0	96	13903	0.4144	
25 Isopropyl alcohol	45	5.120	5.132	-0.012	73	152691	0.4777	
26 Ethyl ether	31	5.298	5.298	0.0	92	89171	0.4005	
27 1,1-Dichloroethene	96	5.605	5.610	-0.005	96	52782	0.3996	
28 Acrylonitrile	53	5.697	5.699	-0.002	96	58649	0.3992	
29 2-Methyl-2-propanol	59	5.729	5.736	-0.007	96	130701	0.4016	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.805	5.805	0.0	96	112003	0.4046	
31 Methylene Chloride	84	5.945	5.951	-0.006	93	51504	0.3975	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.972	5.972	0.0	92	60429	0.3970	
33 Carbon disulfide	76	6.112	6.114	-0.002	100	180040	0.4006	
34 trans-1,2-Dichloroethene	96	6.781	6.784	-0.003	94	64249	0.3946	
35 2-Methylpentane	43	6.829	6.828	0.001	96	184798	0.4049	
36 Methyl tert-butyl ether	73	6.932	6.935	-0.003	95	173563	0.3929	
37 1,1-Dichloroethane	63	7.196	7.199	-0.003	99	117636	0.4016	
38 Vinyl acetate	43	7.320	7.320	0.0	100	184664	0.3870	
39 2-Butanone (MEK)	72	7.762	7.763	-0.001	98	57652	0.6087	
40 Hexane	56	7.827	7.830	-0.003	86	64798	0.3978	
41 cis-1,2-Dichloroethene	96	8.193	8.201	-0.008	98	60585	0.4023	
42 Ethyl acetate	43	8.404	8.410	-0.006	98	167127	0.3853	
43 Chloroform	83	8.549	8.555	-0.006	88	121732	0.3962	
44 Tetrahydrofuran	42	8.965	8.967	-0.002	94	93395	0.3961	
45 1,1,1-Trichloroethane	97	9.601	9.603	-0.002	96	120087	0.4003	
46 1,2-Dichloroethane	62	9.687	9.691	-0.004	94	94692	0.4077	
49 n-Butanol	31	10.210	10.210	0.0	64	29548	0.4368	
47 Benzene	78	10.216	10.220	-0.004	97	183665	0.3952	
48 Cyclohexane	69	10.237	10.239	-0.002	90	30854	0.3931	
50 Carbon tetrachloride	117	10.253	10.255	-0.002	96	120345	0.3874	
51 2,3-Dimethylpentane	71	10.394	10.393	0.001	90	40459	0.4001	
52 Thiophene	84	10.501	10.504	-0.003	97	111598	0.4005	
53 Isooctane	57	11.105	11.110	-0.005	98	376181	0.3975	
54 n-Heptane	71	11.548	11.550	-0.002	93	69218	0.3896	
55 1,2-Dichloropropane	63	11.574	11.576	-0.002	81	74558	0.3939	
56 Trichloroethene	130	11.634	11.636	-0.002	95	81001	0.4070	
57 Dibromomethane	93	11.698	11.702	-0.004	94	71181	0.3898	
58 Dichlorobromomethane	83	11.893	11.895	-0.002	98	129215	0.3909	
59 1,4-Dioxane	88	11.920	11.918	0.002	92	29658	0.4056	
60 Methyl methacrylate	41	12.044	12.045	-0.001	94	101382	0.3704	
61 Methylcyclohexane	83	12.594	12.594	0.0	92	115385	0.4025	
62 4-Methyl-2-pentanone (MIBK)	43	13.106	13.106	0.0	98	184247	0.3764	
63 cis-1,3-Dichloropropene	75	13.154	13.159	-0.005	96	98483	0.3914	
64 trans-1,3-Dichloropropene	75	14.093	14.092	0.001	97	97853	0.3755	
65 Toluene	91	14.265	14.269	-0.004	93	224715	0.3964	
66 1,1,2-Trichloroethane	83	14.352	14.354	-0.002	97	66054	0.3969	
67 2-Methylthiophene	97	14.470	14.472	-0.002	98	190168	0.3944	
68 3-Methylthiophene	97	14.751	14.754	-0.003	99	194617	0.3958	
69 2-Hexanone	58	14.939	14.940	-0.001	92	89476	0.3774	
71 Chlorodibromomethane	129	15.333	15.334	-0.001	91	114534	0.3750	
70 n-Octane	85	15.333	15.335	-0.002	97	76203	0.3727	
72 Ethylene Dibromide	107	15.748	15.750	-0.002	98	114178	0.3897	
73 Tetrachloroethene	129	15.905	15.910	-0.005	94	77374	0.3993	
74 Chlorobenzene	112	17.231	17.232	-0.001	92	183684	0.4053	
75 2,3-Dimethylheptane	43	17.387	17.390	-0.003	95	273156	0.3913	
76 Ethylbenzene	91	17.727	17.734	-0.007	98	284977	0.4037	
77 2-Ethylthiophene	97	17.889	17.891	-0.002	98	214597	0.3994	
78 m-Xylene & p-Xylene	91	18.002	18.011	-0.009	97	449205	0.8019	
79 Bromoform	173	18.655	18.662	-0.007	95	105362	0.3625	
80 Styrene	104	18.773	18.776	-0.003	97	156170	0.3960	
81 n-Nonane	57	18.838	18.845	-0.007	95	184125	0.3866	
82 o-Xylene	91	18.876	18.879	-0.003	97	233827	0.4044	
83 1,1,2,2-Tetrachloroethane	83	19.420	19.422	-0.002	99	166412	0.3822	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	19.679	19.688	-0.009	94	51807	0.3866	
85 Isopropylbenzene	105	19.911	19.919	-0.008	96	351248	0.3956	
86 N-Propylbenzene	120	20.887	20.891	-0.004	98	95717	0.3961	
87 2-Chlorotoluene	126	20.914	20.915	-0.001	94	85634	0.4114	
88 4-Ethyltoluene	105	21.178	21.182	-0.004	99	350918	0.3851	
89 1,3,5-Trimethylbenzene	120	21.335	21.337	-0.002	92	157020	0.3872	
90 Alpha Methyl Styrene	118	21.766	21.770	-0.004	87	114245	0.3540	
91 n-Decane	57	22.046	22.050	-0.004	88	228662	0.3487	
92 tert-Butylbenzene	119	22.149	22.149	0.0	91	306161	0.3878	
93 1,2,4-Trimethylbenzene	105	22.176	22.179	-0.003	96	289894	0.3854	
94 1,3-Dichlorobenzene	146	22.656	22.660	-0.004	97	192989	0.3815	
95 sec-Butylbenzene	105	22.704	22.710	-0.006	98	428195	0.3816	
96 Benzyl chloride	91	22.828	22.831	-0.003	97	218576	0.3548	
97 1,4-Dichlorobenzene	146	22.845	22.847	-0.002	93	195399	0.3834	
98 4-Isopropyltoluene	119	23.076	23.081	-0.005	89	367535	0.3828	
99 1,2,3-Trimethylbenzene	105	23.130	23.134	-0.004	99	261128	0.3854	
100 Butylcyclohexane	83	23.324	23.327	-0.003	91	232973	0.3856	
101 1,2-Dichlorobenzene	146	23.594	23.598	-0.004	95	187442	0.3838	
102 2,3-Dihydroindene	117	23.621	23.625	-0.004	91	263593	0.3858	
103 Indene	116	23.896	23.898	-0.002	87	248136	0.3697	
104 n-Butylbenzene	91	24.025	24.031	-0.006	98	338206	0.3793	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.888	24.892	-0.004	88	340495	0.3779	
106 Undecane	57	24.948	24.950	-0.002	95	260625	0.3649	
107 1,2,4,5-Tetramethylbenzene	119	25.810	25.814	-0.004	98	359669	0.3826	
108 1,2,3,5-Tetramethylbenzene	119	25.940	25.942	-0.002	96	225678	0.3829	
109 1,2,3,4-Tetramethylbenzene	119	26.835	26.837	-0.002	97	293973	0.3740	
110 Dodecane	57	27.450	27.451	-0.001	93	239023	0.3499	
111 1,2,4-Trichlorobenzene	180	27.520	27.524	-0.004	93	147167	0.3579	
112 Naphthalene	128	27.757	27.760	-0.003	99	327361	0.3604	
113 Benzo(b)thiophene	134	27.951	27.953	-0.002	99	262687	0.3665	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	83	135606	0.3503	
115 1,2,3-Trichlorobenzene	180	28.329	28.333	-0.004	90	139301	0.3571	
116 2-Methylnaphthalene	142	29.811	29.812	-0.001	99	132723	1.93	
117 1-Methylnaphthalene	142	30.124	30.124	0.0	98	113104	1.96	
A 118 C6 Range	1	7.851	7.778 -	7.897	0	572761	0.3625	
A 119 Toluene Range	1	14.252	14.206 -	14.346	0	570376	0.2785	
A 120 C8 Range	1	15.333	15.274 -	15.392	0	1302162	0.4136	
S 124 Xylenes, Total	100				0		1.21	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-005.D

Injection Date: 21-Jan-2014 20:00:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L4

Lab Sample ID:

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

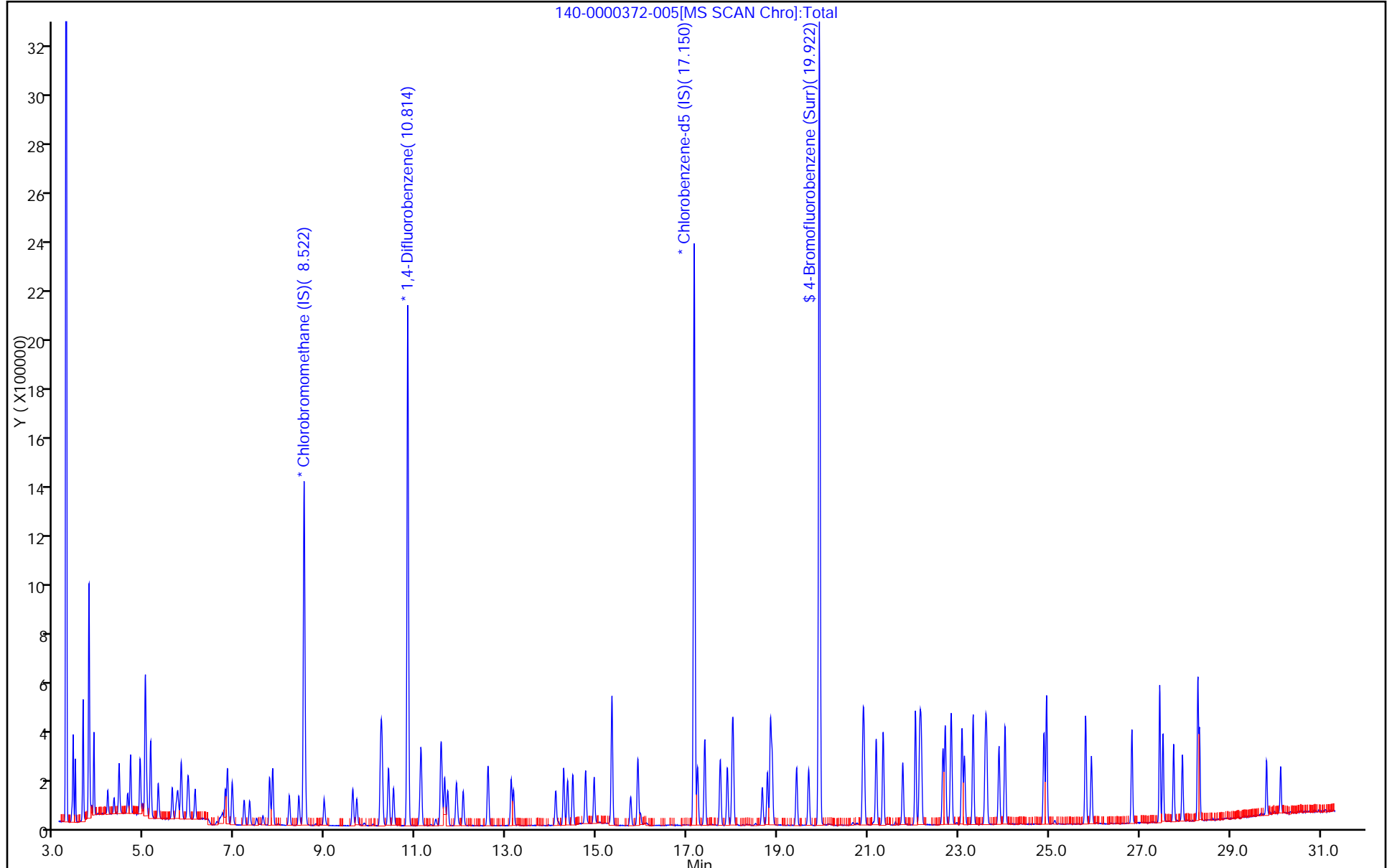
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-005.D

Injection Date: 21-Jan-2014 20:00:30

Instrument ID: MR

Lims ID: IC L4

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

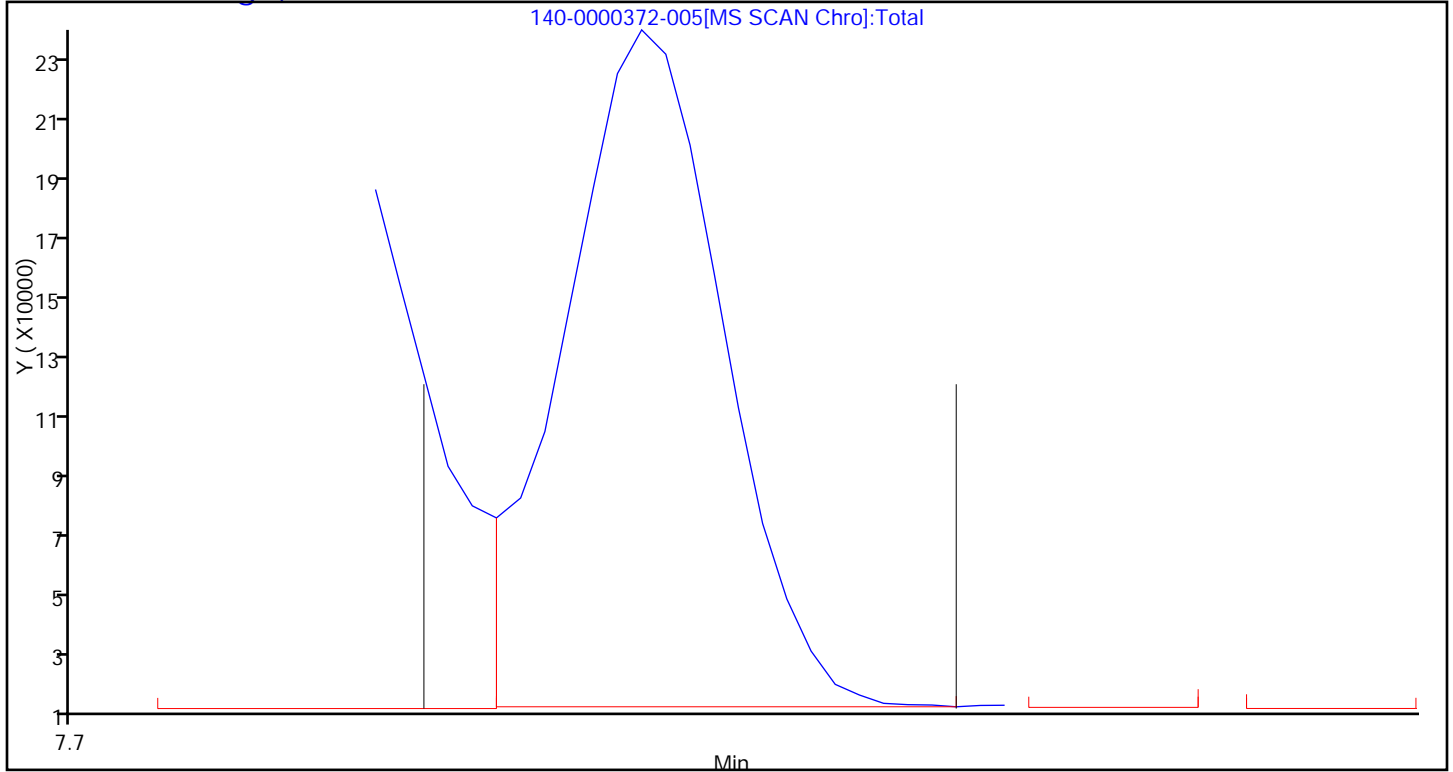
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-005.D

Injection Date: 21-Jan-2014 20:00:30

Instrument ID: MR

Lims ID: IC L4

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

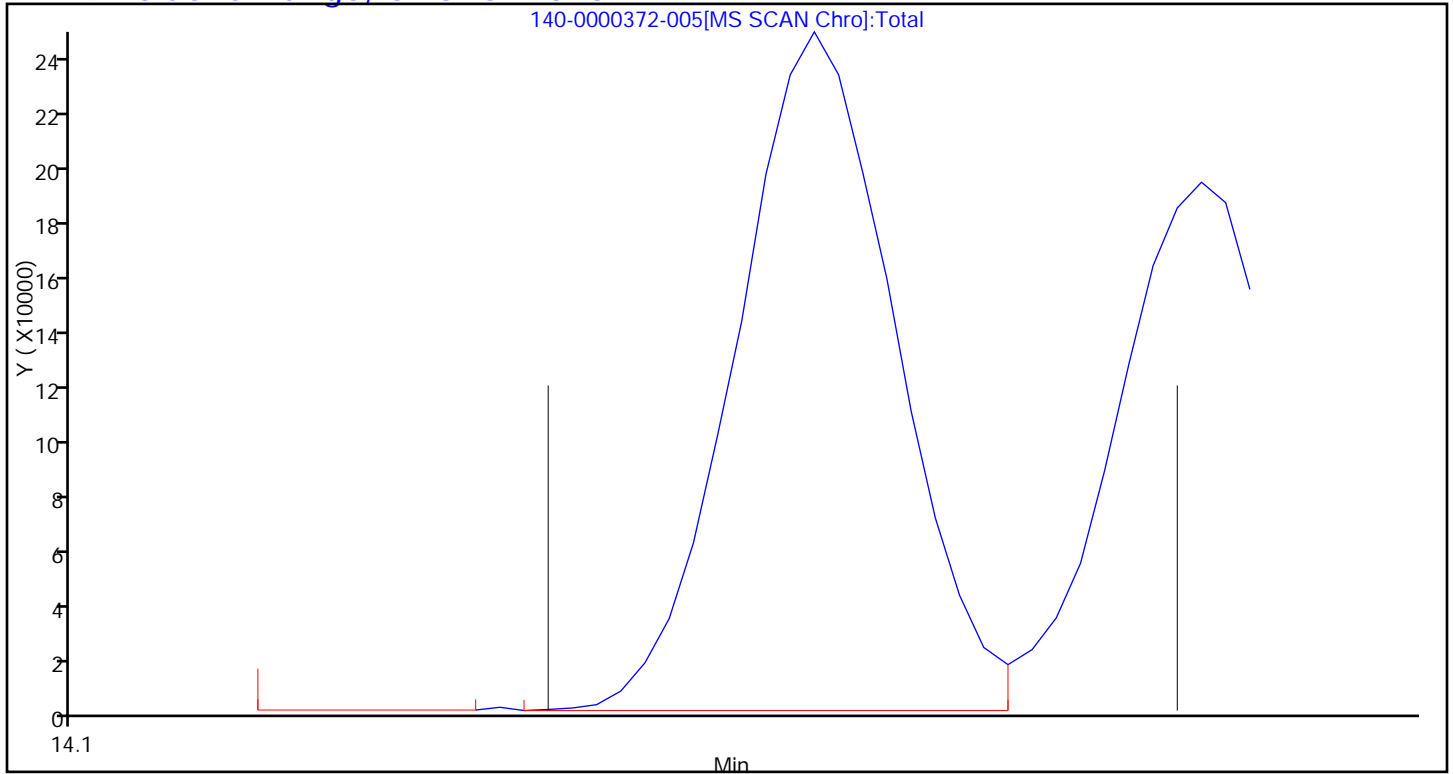
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-005.D

Injection Date: 21-Jan-2014 20:00:30

Instrument ID: MR

Lims ID: IC L4

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

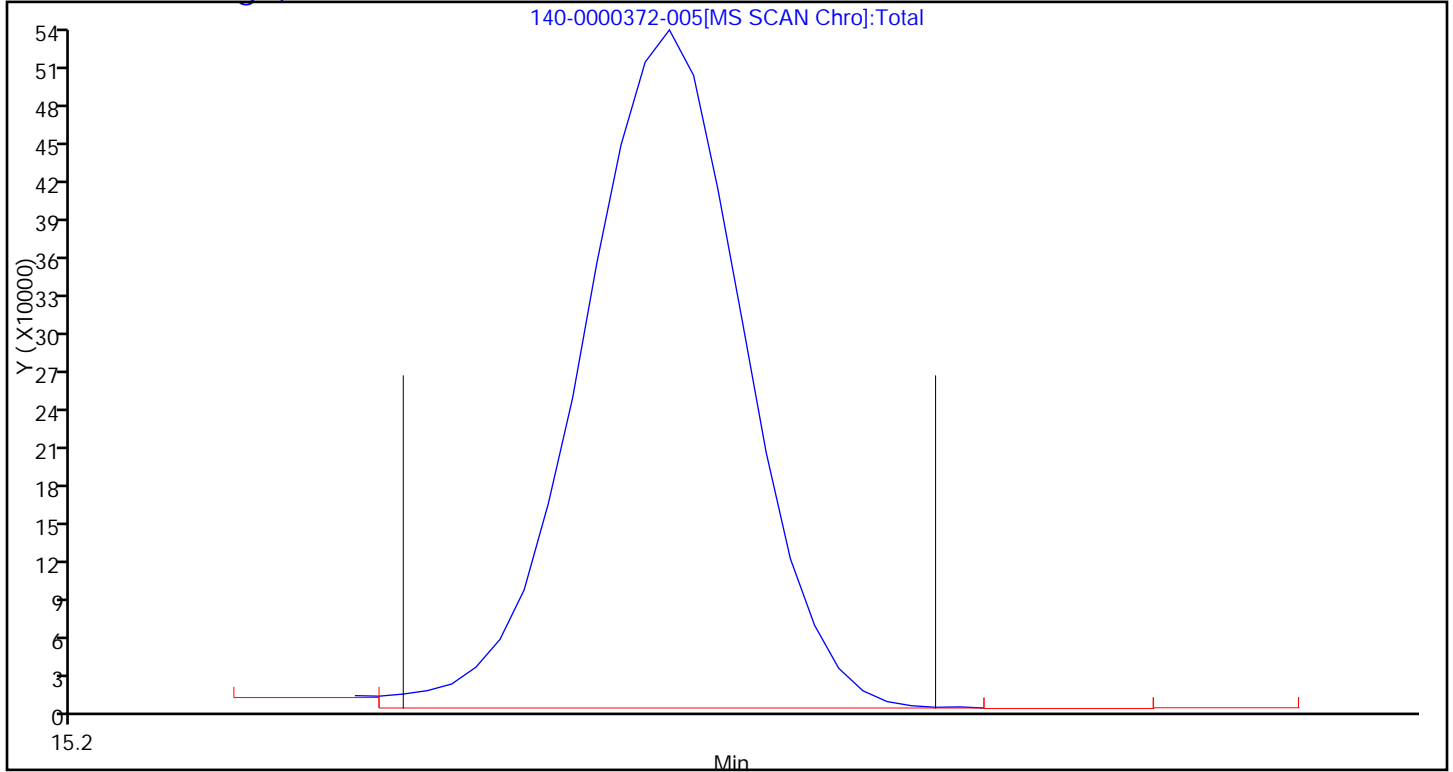
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-006.D
 Lims ID: IC L5 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 21-Jan-2014 20:48:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic I5
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:19:40 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:19:40

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.522	8.527	-0.005	97	420363	4.00	
* 2 1,4-Difluorobenzene	114	10.814	10.819	-0.005	96	2146211	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.156	17.156	0.0	90	1854911	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.922	19.925	-0.003	91	1491821	4.08	
6 Chlorodifluoromethane	67	3.405	3.407	-0.002	96	44642	0.9873	
7 Propene	41	3.416	3.417	-0.001	99	191972	1.09	
8 Dichlorodifluoromethane	85	3.459	3.461	-0.002	100	428480	1.01	
9 Chloromethane	52	3.621	3.622	-0.001	98	62894	1.01	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.637	3.634	0.003	94	309246	1.02	
11 Acetaldehyde	44	3.761	3.766	-0.005	96	709734	3.70	
12 Vinyl chloride	62	3.782	3.784	-0.002	99	193424	1.01	
14 Butadiene	54	3.869	3.871	-0.002	96	160652	1.00	
13 Butane	43	3.874	3.872	0.002	89	314967	0.99	
15 Bromomethane	94	4.176	4.178	-0.002	98	153803	0.9609	
16 Chloroethane	64	4.316	4.319	-0.003	96	94970	0.9844	
17 Ethanol	31	4.430	4.437	-0.007	92	392779	5.53	
18 Vinyl bromide	106	4.618	4.621	-0.003	97	155079	1.00	
19 2-Methylbutane	43	4.683	4.682	0.001	92	245218	1.02	
21 Acrolein	56	4.888	4.893	-0.005	92	85600	1.00	
20 Trichlorofluoromethane	101	4.893	4.898	-0.005	98	415588	1.00	
22 Acetonitrile	40	4.953	4.955	-0.002	100	86908	1.08	
23 Acetone	58	5.012	5.018	-0.006	90	338403	0.6366	
24 Pentane	72	5.125	5.131	-0.006	95	33095	0.9687	
25 Isopropyl alcohol	45	5.120	5.132	-0.012	57	332729	1.02	
26 Ethyl ether	31	5.292	5.298	-0.006	93	222435	0.9811	
27 1,1-Dichloroethene	96	5.605	5.610	-0.005	95	132463	0.9850	
28 Acrylonitrile	53	5.697	5.699	-0.002	94	149537	1.00	
29 2-Methyl-2-propanol	59	5.718	5.736	-0.018	96	344604	1.04	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.805	5.805	0.0	96	279175	0.99	
31 Methylene Chloride	84	5.950	5.951	-0.001	93	126726	0.9605	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.966	5.972	-0.006	90	155687	1.00	
33 Carbon disulfide	76	6.112	6.114	-0.002	99	456645	1.00	
34 trans-1,2-Dichloroethene	96	6.781	6.784	-0.003	94	159809	0.9639	
35 2-Methylpentane	43	6.824	6.828	-0.004	96	455895	0.9811	
36 Methyl tert-butyl ether	73	6.926	6.935	-0.009	97	437854	0.9734	
37 1,1-Dichloroethane	63	7.196	7.199	-0.003	100	287393	0.9635	
38 Vinyl acetate	43	7.314	7.320	-0.006	100	476346	0.9804	
39 2-Butanone (MEK)	72	7.757	7.763	-0.006	98	100901	1.05	
40 Hexane	56	7.827	7.830	-0.003	87	156497	0.9435	
41 cis-1,2-Dichloroethene	96	8.199	8.201	-0.002	97	151268	0.9866	
42 Ethyl acetate	43	8.404	8.410	-0.006	98	434533	0.9840	
43 Chloroform	83	8.555	8.555	0.0	90	305925	0.9780	
44 Tetrahydrofuran	42	8.959	8.967	-0.008	93	233243	0.9714	
45 1,1,1-Trichloroethane	97	9.601	9.603	-0.002	97	299716	0.9813	
46 1,2-Dichloroethane	62	9.687	9.691	-0.004	96	234065	0.9898	
49 n-Butanol	31	10.205	10.210	-0.005	58	67708	0.9831	
47 Benzene	78	10.221	10.220	0.001	97	461399	0.9750	
48 Cyclohexane	69	10.237	10.239	-0.002	93	75112	0.9397	
50 Carbon tetrachloride	117	10.253	10.255	-0.002	94	314218	0.99	
51 2,3-Dimethylpentane	71	10.388	10.393	-0.005	90	102833	1.00	
52 Thiophene	84	10.507	10.504	0.003	98	277486	0.9779	
53 Isooctane	57	11.111	11.110	0.001	98	938098	0.9736	
54 n-Heptane	71	11.547	11.550	-0.003	95	173112	0.9569	
55 1,2-Dichloropropane	63	11.569	11.576	-0.007	81	186154	0.9658	
56 Trichloroethene	130	11.634	11.636	-0.002	87	196138	0.9680	
57 Dibromomethane	93	11.698	11.702	-0.004	94	182520	0.9816	
58 Dichlorobromomethane	83	11.893	11.895	-0.002	98	332341	0.9873	
59 1,4-Dioxane	88	11.909	11.918	-0.009	95	76579	1.03	
60 Methyl methacrylate	41	12.044	12.045	-0.001	95	269520	0.9670	
61 Methylcyclohexane	83	12.594	12.594	0.0	89	284608	0.9751	
62 4-Methyl-2-pentanone (MIBK)	43	13.100	13.106	-0.006	97	477366	0.9578	
63 cis-1,3-Dichloropropene	75	13.154	13.159	-0.005	97	251229	0.9806	
64 trans-1,3-Dichloropropene	75	14.087	14.092	-0.005	97	255303	0.9673	
65 Toluene	91	14.265	14.269	-0.004	93	551274	0.9601	
66 1,1,2-Trichloroethane	83	14.351	14.354	-0.003	98	163559	0.9703	
67 2-Methylthiophene	97	14.470	14.472	-0.002	98	474075	0.9707	
68 3-Methylthiophene	97	14.751	14.754	-0.004	99	485192	0.9742	
69 2-Hexanone	58	14.934	14.940	-0.006	92	234939	0.9783	
71 Chlorodibromomethane	129	15.333	15.334	-0.001	90	305144	0.9862	
70 n-Octane	85	15.333	15.335	-0.002	96	191218	0.9232	
72 Ethylene Dibromide	107	15.748	15.750	-0.002	98	289002	0.9738	
73 Tetrachloroethene	129	15.910	15.910	0.0	96	191753	0.9769	
74 Chlorobenzene	112	17.231	17.232	-0.001	91	447119	0.9740	
75 2,3-Dimethylheptane	43	17.387	17.390	-0.003	95	685723	0.9698	
76 Ethylbenzene	91	17.732	17.734	-0.002	98	709098	0.99	
77 2-Ethylthiophene	97	17.889	17.891	-0.002	98	540205	0.99	
78 m-Xylene & p-Xylene	91	18.008	18.011	-0.003	98	1131471	1.99	
79 Bromoform	173	18.660	18.662	-0.002	95	297208	1.01	
80 Styrene	104	18.773	18.776	-0.003	97	417974	1.05	
81 n-Nonane	57	18.843	18.845	-0.002	95	470450	0.9753	
82 o-Xylene	91	18.876	18.879	-0.003	97	583811	1.00	
83 1,1,2,2-Tetrachloroethane	83	19.420	19.422	-0.002	99	438860	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	19.690	19.688	0.002	94	132761	0.9780	
85 Isopropylbenzene	105	19.916	19.919	-0.003	97	881723	0.9803	
86 N-Propylbenzene	120	20.887	20.891	-0.004	97	243598	1.00	
87 2-Chlorotoluene	126	20.914	20.915	-0.001	94	210762	1.00	
88 4-Ethyltoluene	105	21.184	21.182	0.002	99	904168	0.9796	
89 1,3,5-Trimethylbenzene	120	21.335	21.337	-0.002	92	402663	0.9803	
90 Alpha Methyl Styrene	118	21.771	21.770	0.001	87	331323	1.01	
91 n-Decane	57	22.046	22.050	-0.004	88	605736	0.9120	
92 tert-Butylbenzene	119	22.149	22.149	0.0	89	782809	0.9789	
93 1,2,4-Trimethylbenzene	105	22.176	22.179	-0.003	96	744894	0.9778	
94 1,3-Dichlorobenzene	146	22.656	22.660	-0.004	98	499795	0.9755	
95 sec-Butylbenzene	105	22.710	22.710	0.0	95	1110128	0.9768	
96 Benzyl chloride	91	22.828	22.831	-0.003	98	625714	1.00	
97 1,4-Dichlorobenzene	146	22.844	22.847	-0.003	93	505725	0.9796	
98 4-Isopropyltoluene	119	23.076	23.081	-0.005	90	972406	1.00	
99 1,2,3-Trimethylbenzene	105	23.136	23.134	0.002	99	675966	0.9850	
100 Butylcyclohexane	83	23.324	23.327	-0.003	90	602849	0.9851	
101 1,2-Dichlorobenzene	146	23.594	23.598	-0.004	94	487103	0.9846	
102 2,3-Dihydroindene	117	23.626	23.625	0.001	91	682649	0.9865	
103 Indene	116	23.896	23.898	-0.002	88	685376	1.01	
104 n-Butylbenzene	91	24.031	24.031	0.0	98	908939	1.01	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.894	24.892	0.002	98	918856	1.01	
106 Undecane	57	24.953	24.950	0.003	95	752163	1.04	
107 1,2,4,5-Tetramethylbenzene	119	25.816	25.814	0.002	98	977181	1.03	
108 1,2,3,5-Tetramethylbenzene	119	25.945	25.942	0.003	95	613817	1.03	
109 1,2,3,4-Tetramethylbenzene	119	26.840	26.837	0.003	98	836308	1.05	
110 Dodecane	57	27.455	27.451	0.004	93	777210	1.12	
111 1,2,4-Trichlorobenzene	180	27.525	27.524	0.001	94	430967	1.03	
112 Naphthalene	128	27.762	27.760	0.002	99	967369	1.05	
113 Benzo(b)thiophene	134	27.956	27.953	0.003	99	754949	1.04	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	84	395796	1.01	
115 1,2,3-Trichlorobenzene	180	28.334	28.333	0.001	92	417833	1.06	
116 2-Methylnaphthalene	142	29.817	29.812	0.005	99	500309	7.17	
117 1-Methylnaphthalene	142	30.130	30.124	0.006	100	428902	7.32	
A 118 C6 Range	1	7.848	7.778 -	7.908	0	1395991	0.8677	
A 119 Toluene Range	1	14.260	14.195 -	14.335	0	1414507	0.6782	
A 120 C8 Range	1	15.333	15.268 -	15.398	0	3228381	1.01	
S 124 Xylenes, Total	100				0		2.99	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-006.D

Injection Date: 21-Jan-2014 20:48:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L5

Lab Sample ID:

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

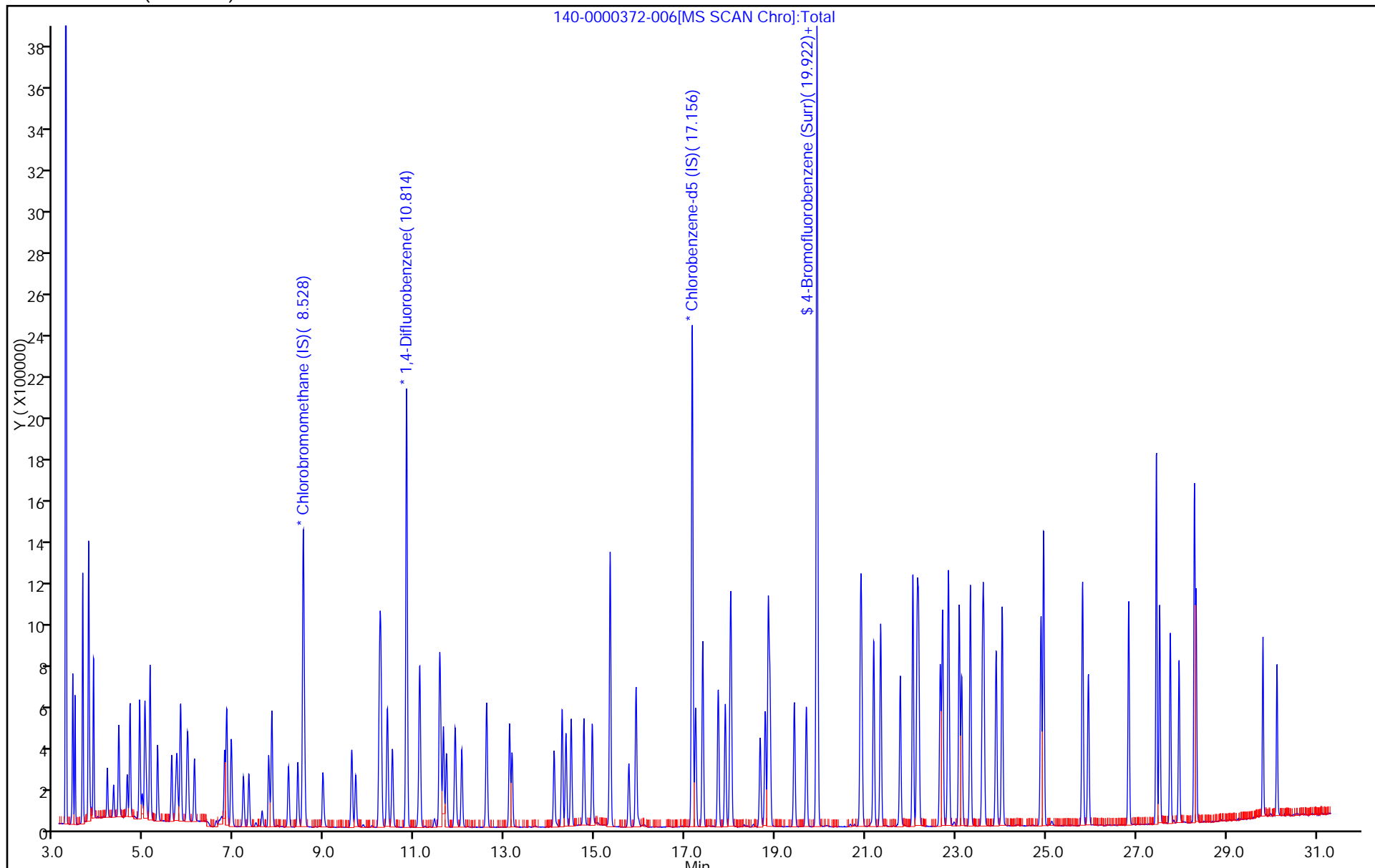
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-006.D

Injection Date: 21-Jan-2014 20:48:30

Instrument ID: MR

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

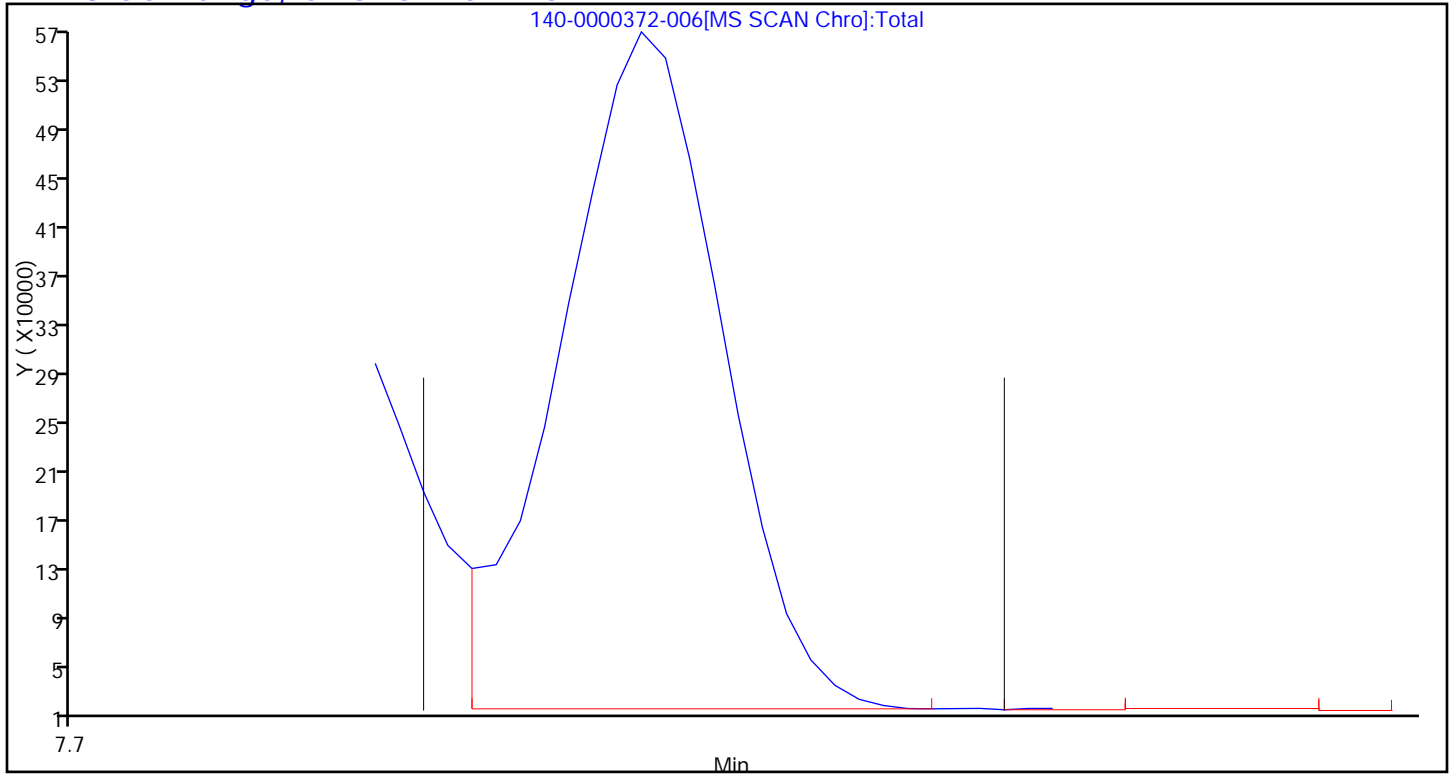
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-006.D

Injection Date: 21-Jan-2014 20:48:30

Instrument ID: MR

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

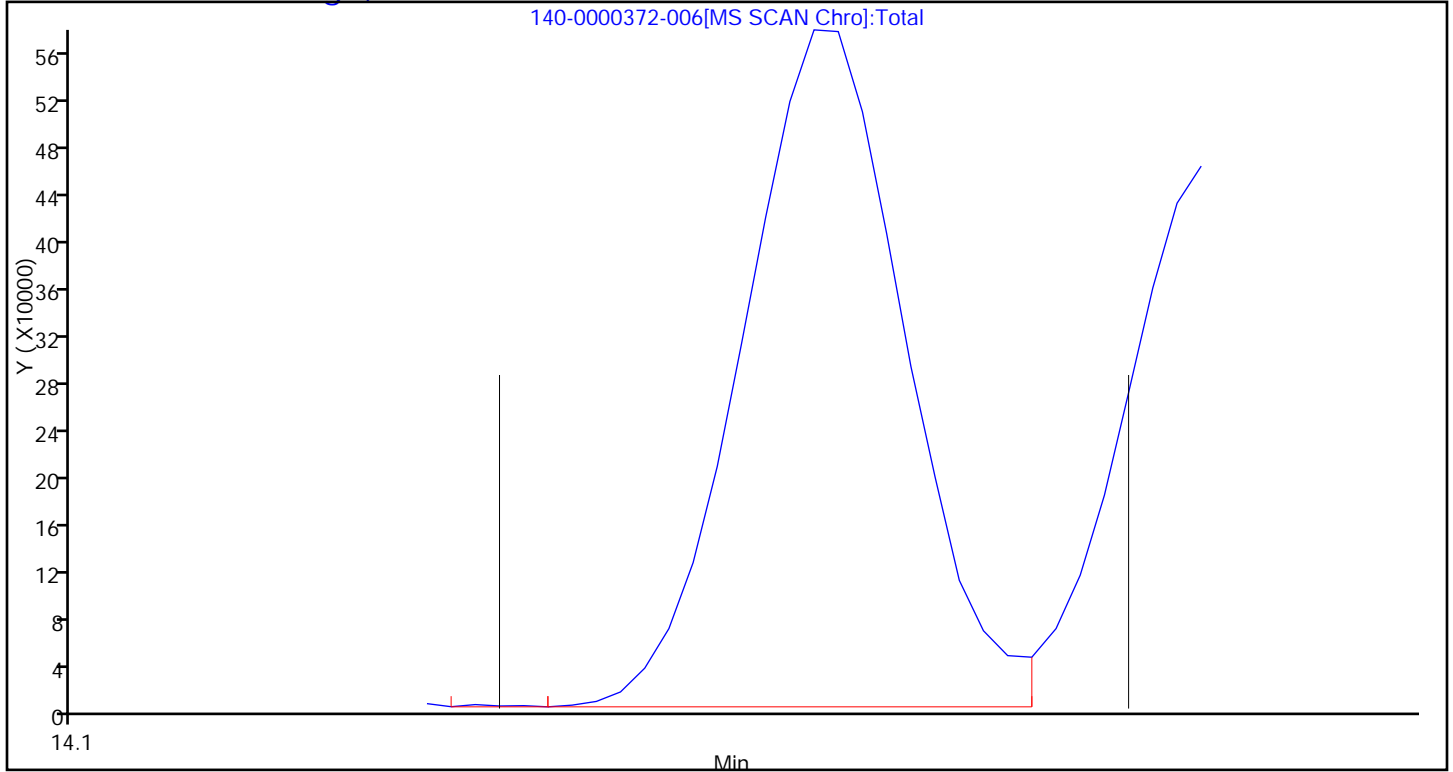
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-006.D

Injection Date: 21-Jan-2014 20:48:30

Instrument ID: MR

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

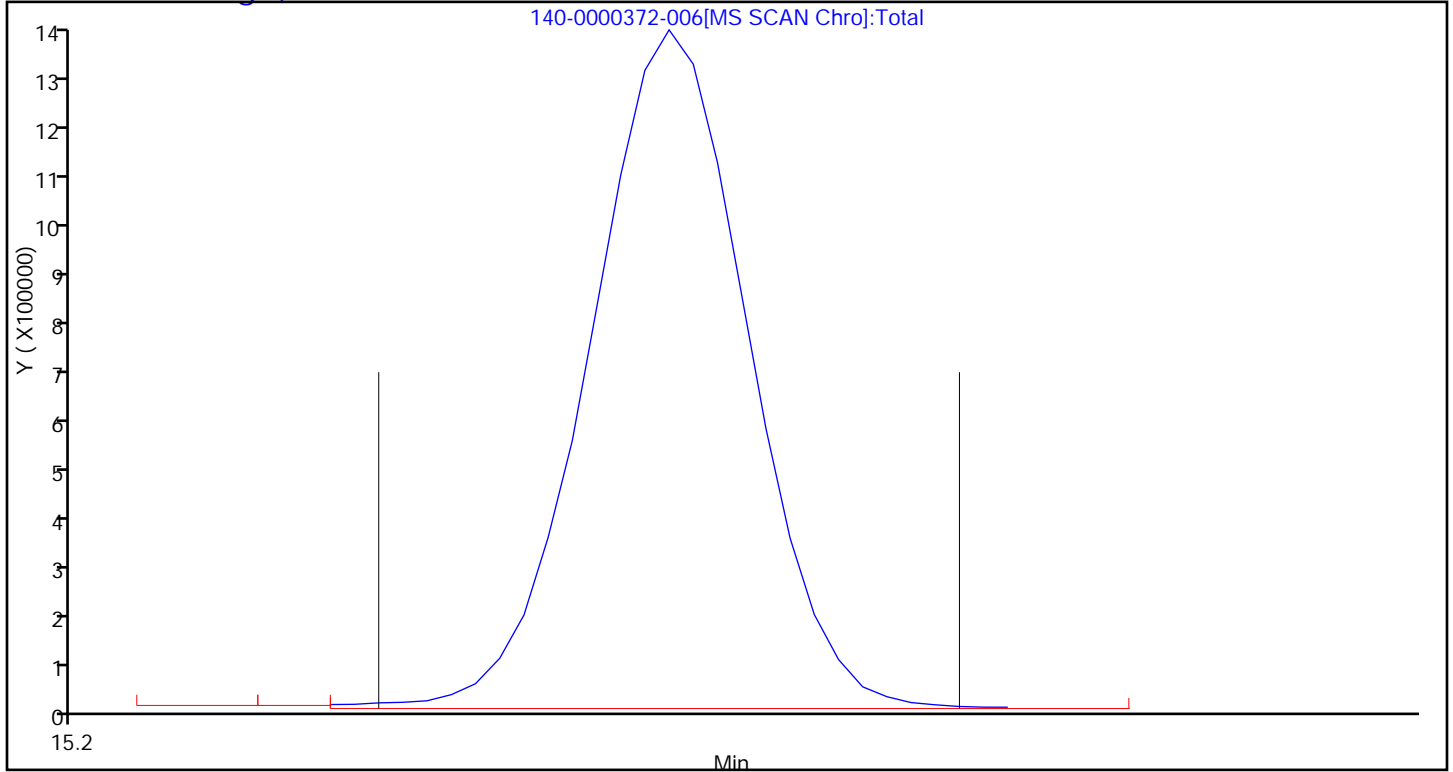
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-007.D
 Lims ID: IC L6 Lab Sample ID:
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 21-Jan-2014 21:36:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic l6
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:19:48 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:19:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.528	8.527	0.001	96	430788	4.00	
* 2 1,4-Difluorobenzene	114	10.820	10.819	0.001	96	2214255	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.156	17.156	0.0	89	1832420	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.927	19.925	0.002	90	1493637	4.14	
6 Chlorodifluoromethane	67	3.405	3.407	-0.002	96	90674	1.96	
7 Propene	41	3.416	3.417	-0.001	98	350979	1.94	
8 Dichlorodifluoromethane	85	3.459	3.461	-0.002	100	835511	1.93	
9 Chloromethane	52	3.621	3.622	-0.001	99	130558	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.632	3.634	-0.002	93	638229	2.06	
11 Acetaldehyde	44	3.761	3.766	-0.005	96	1158429	5.89	
12 Vinyl chloride	62	3.783	3.784	-0.001	98	399618	2.04	
14 Butadiene	54	3.869	3.871	-0.002	97	328529	2.00	
13 Butane	43	3.869	3.872	-0.003	89	661996	2.04	
15 Bromomethane	94	4.176	4.178	-0.002	99	323886	1.97	
16 Chloroethane	64	4.316	4.319	-0.003	97	196082	1.98	
17 Ethanol	31	4.435	4.437	-0.002	92	784581	10.8	
18 Vinyl bromide	106	4.618	4.621	-0.003	97	322276	2.03	
19 2-Methylbutane	43	4.678	4.682	-0.004	92	514765	2.08	
21 Acrolein	56	4.888	4.893	-0.005	93	177945	2.02	
20 Trichlorofluoromethane	101	4.893	4.898	-0.005	99	867834	2.03	
22 Acetonitrile	40	4.953	4.955	-0.002	100	180511	2.18	
23 Acetone	58	5.012	5.018	-0.006	90	529274	0.9715	
24 Pentane	72	5.125	5.131	-0.006	95	69956	2.00	
25 Isopropyl alcohol	45	5.125	5.132	-0.007	64	699342	2.10	
26 Ethyl ether	31	5.287	5.298	-0.011	94	476998	2.05	
27 1,1-Dichloroethene	96	5.605	5.610	-0.005	95	275491	2.00	
28 Acrylonitrile	53	5.697	5.699	-0.002	94	311786	2.03	
29 2-Methyl-2-propanol	59	5.724	5.736	-0.012	96	706407	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.799	5.805	-0.006	95	587842	2.04	
31 Methylene Chloride	84	5.950	5.951	-0.001	93	267733	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.972	5.972	0.0	92	326087	2.05	
33 Carbon disulfide	76	6.112	6.114	-0.002	100	961912	2.05	
34 trans-1,2-Dichloroethene	96	6.781	6.784	-0.003	94	335466	1.97	
35 2-Methylpentane	43	6.824	6.828	-0.004	96	976040	2.05	
36 Methyl tert-butyl ether	73	6.926	6.935	-0.009	98	948548	2.06	
37 1,1-Dichloroethane	63	7.196	7.199	-0.003	99	617533	2.02	
38 Vinyl acetate	43	7.315	7.320	-0.005	100	1041984	2.09	
39 2-Butanone (MEK)	72	7.757	7.763	-0.006	98	207821	2.10	
40 Hexane	56	7.827	7.830	-0.003	88	339532	2.00	
41 cis-1,2-Dichloroethene	96	8.199	8.201	-0.002	98	315244	2.01	
42 Ethyl acetate	43	8.404	8.410	-0.006	98	952640	2.11	
43 Chloroform	83	8.555	8.555	0.0	96	650118	2.03	
44 Tetrahydrofuran	42	8.954	8.967	-0.013	93	505316	2.05	
45 1,1,1-Trichloroethane	97	9.601	9.603	-0.002	96	640561	2.05	
46 1,2-Dichloroethane	62	9.693	9.691	0.002	95	498800	2.04	
49 n-Butanol	31	10.200	10.210	-0.010	60	150003	2.11	
47 Benzene	78	10.221	10.220	0.001	97	971870	1.99	
48 Cyclohexane	69	10.237	10.239	-0.002	93	163496	1.98	
50 Carbon tetrachloride	117	10.253	10.255	-0.002	96	657577	2.01	
51 2,3-Dimethylpentane	71	10.394	10.393	0.001	91	217125	2.04	
52 Thiophene	84	10.501	10.504	-0.003	98	597411	2.04	
53 Isooctane	57	11.105	11.110	-0.005	99	2016394	2.03	
54 n-Heptane	71	11.548	11.550	-0.002	95	366853	1.97	
55 1,2-Dichloropropane	63	11.575	11.576	-0.001	83	404601	2.03	
56 Trichloroethene	130	11.634	11.636	-0.002	87	419202	2.01	
57 Dibromomethane	93	11.704	11.702	0.002	94	385560	2.01	
58 Dichlorobromomethane	83	11.893	11.895	-0.002	98	725095	2.09	
59 1,4-Dioxane	88	11.914	11.918	-0.004	95	165474	2.15	
60 Methyl methacrylate	41	12.044	12.045	-0.001	95	608107	2.11	
61 Methylcyclohexane	83	12.594	12.594	0.0	89	603999	2.01	
62 4-Methyl-2-pentanone (MIBK)	43	13.101	13.106	-0.005	98	1041928	2.03	
63 cis-1,3-Dichloropropene	75	13.160	13.159	0.001	98	546637	2.07	
64 trans-1,3-Dichloropropene	75	14.093	14.092	0.001	97	553565	2.12	
65 Toluene	91	14.265	14.269	-0.004	93	1171582	2.07	
66 1,1,2-Trichloroethane	83	14.352	14.354	-0.002	98	342867	2.06	
67 2-Methylthiophene	97	14.470	14.472	-0.002	98	1001201	2.08	
68 3-Methylthiophene	97	14.751	14.754	-0.003	99	1023230	2.08	
69 2-Hexanone	58	14.934	14.940	-0.006	92	519953	2.19	
71 Chlorodibromomethane	129	15.333	15.334	-0.001	93	670836	2.19	
70 n-Octane	85	15.333	15.335	-0.002	96	393543	1.92	
72 Ethylene Dibromide	107	15.748	15.750	-0.002	98	612371	2.09	
73 Tetrachloroethene	129	15.910	15.910	0.0	95	399049	2.06	
74 Chlorobenzene	112	17.231	17.232	-0.001	91	901687	1.99	
75 2,3-Dimethylheptane	43	17.393	17.390	0.003	95	1448264	2.07	
76 Ethylbenzene	91	17.733	17.734	-0.001	99	1433185	2.03	
77 2-Ethylthiophene	97	17.894	17.891	0.003	98	1103288	2.05	
78 m-Xylene & p-Xylene	91	18.013	18.011	0.002	98	2309781	4.12	
79 Bromoform	173	18.666	18.662	0.004	95	639375	2.20	
80 Styrene	104	18.779	18.776	0.003	98	889678	2.25	
81 n-Nonane	57	18.849	18.845	0.004	95	1004153	2.11	
82 o-Xylene	91	18.881	18.879	0.002	97	1197268	2.07	
83 1,1,2,2-Tetrachloroethane	83	19.426	19.422	0.004	99	955942	2.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	19.690	19.688	0.002	95	287030	2.14	
85 Isopropylbenzene	105	19.922	19.919	0.003	97	1872860	2.11	
86 N-Propylbenzene	120	20.893	20.891	0.002	98	518603	2.14	
87 2-Chlorotoluene	126	20.920	20.915	0.005	94	438172	2.10	
88 4-Ethyltoluene	105	21.184	21.182	0.002	99	1944259	2.13	
89 1,3,5-Trimethylbenzene	120	21.340	21.337	0.003	92	860708	2.12	
90 Alpha Methyl Styrene	118	21.772	21.770	0.002	86	760476	2.35	
91 n-Decane	57	22.052	22.050	0.002	88	1323961	2.02	
92 tert-Butylbenzene	119	22.149	22.149	0.0	89	1665008	2.11	
93 1,2,4-Trimethylbenzene	105	22.181	22.179	0.002	96	1608599	2.14	
94 1,3-Dichlorobenzene	146	22.661	22.660	0.001	98	1062910	2.10	
95 sec-Butylbenzene	105	22.710	22.710	0.0	98	2391954	2.13	
96 Benzyl chloride	91	22.834	22.831	0.003	97	1423581	2.31	
97 1,4-Dichlorobenzene	146	22.850	22.847	0.003	93	1074571	2.11	
98 4-Isopropyltoluene	119	23.082	23.081	0.001	93	2071212	2.16	
99 1,2,3-Trimethylbenzene	105	23.136	23.134	0.002	99	1452957	2.14	
100 Butylcyclohexane	83	23.330	23.327	0.003	89	1289254	2.13	
101 1,2-Dichlorobenzene	146	23.600	23.598	0.002	94	1028637	2.10	
102 2,3-Dihydroindene	117	23.627	23.625	0.001	90	1467917	2.15	
103 Indene	116	23.902	23.898	0.004	88	1512569	2.25	
104 n-Butylbenzene	91	24.031	24.031	0.0	98	1945915	2.18	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.894	24.892	0.002	95	1958756	2.17	
106 Undecane	57	24.953	24.950	0.003	96	1605688	2.25	
107 1,2,4,5-Tetramethylbenzene	119	25.816	25.814	0.002	97	2067651	2.20	
108 1,2,3,5-Tetramethylbenzene	119	25.945	25.942	0.003	96	1291670	2.19	
109 1,2,3,4-Tetramethylbenzene	119	26.840	26.837	0.003	97	1742871	2.22	
110 Dodecane	57	27.450	27.451	-0.001	93	1621814	2.37	
111 1,2,4-Trichlorobenzene	180	27.525	27.524	0.001	93	902985	2.19	
112 Naphthalene	128	27.762	27.760	0.002	99	2051032	2.26	
113 Benzo(b)thiophene	134	27.957	27.953	0.004	99	1631470	2.27	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	84	813463	2.10	
115 1,2,3-Trichlorobenzene	180	28.334	28.333	0.001	94	869630	2.23	
116 2-Methylnaphthalene	142	29.812	29.812	0.0	100	1116999	16.2	
117 1-Methylnaphthalene	142	30.124	30.124	0.0	100	933096	16.1	
A 118 C6 Range	1	7.845	7.762 -	7.892	0	2949803	1.78	
A 119 Toluene Range	1	14.292	14.195 -	14.379	0	5267866	2.45	
A 120 C8 Range	1	15.333	15.268 -	15.398	0	6560765	1.98	
S 124 Xylenes, Total	100				0		6.19	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-007.D

Injection Date: 21-Jan-2014 21:36:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L6

Lab Sample ID:

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

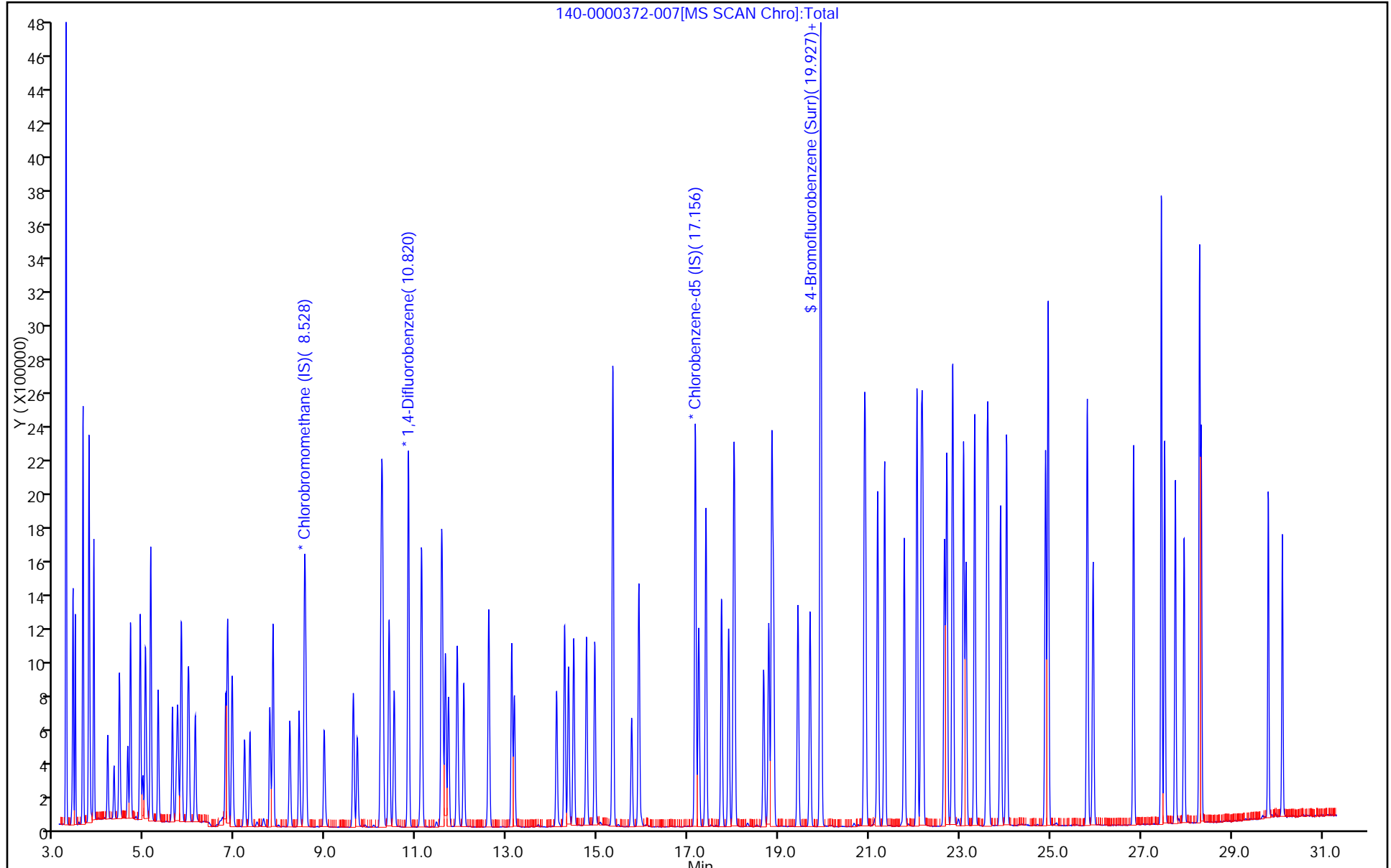
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-007.D

Injection Date: 21-Jan-2014 21:36:30

Instrument ID: MR

Lims ID: IC L6

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

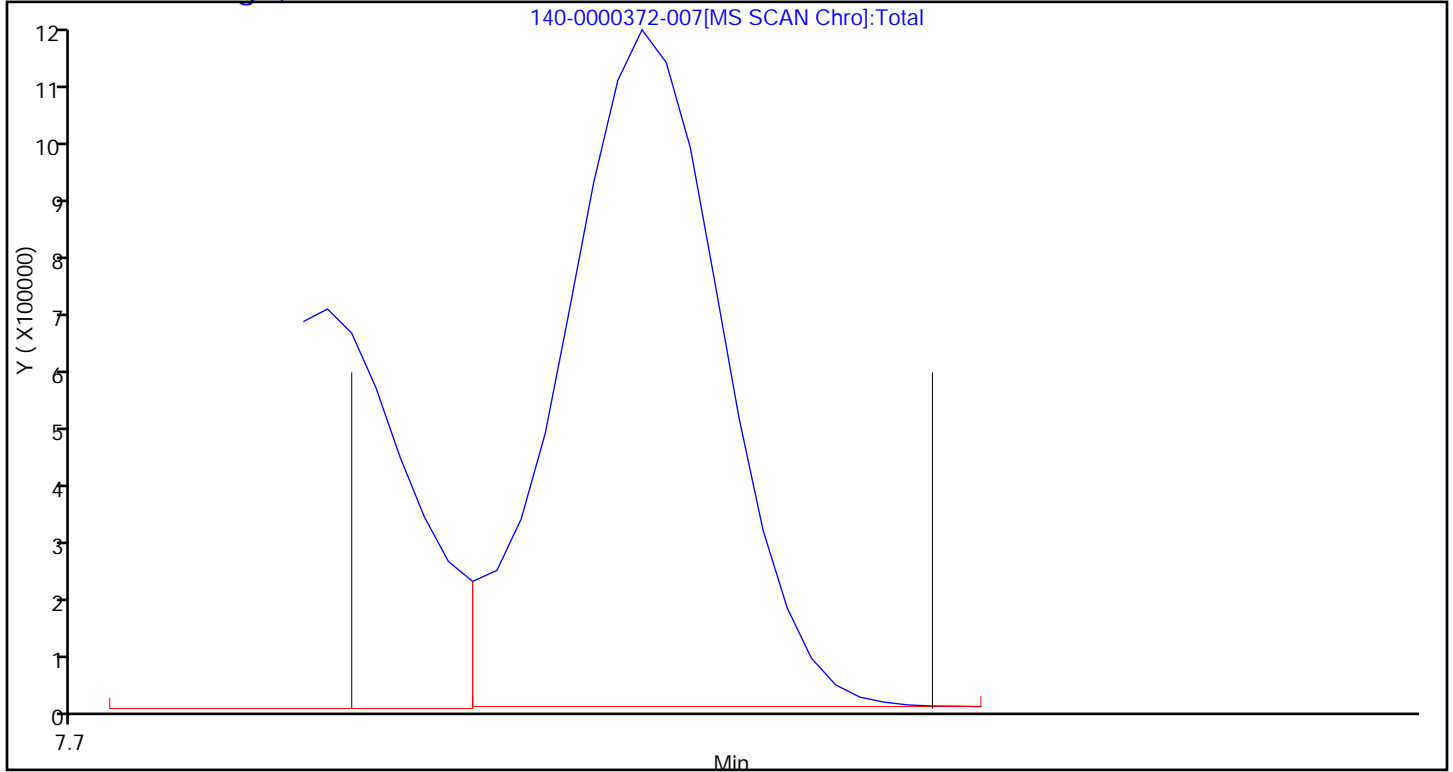
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-007.D

Injection Date: 21-Jan-2014 21:36:30

Instrument ID: MR

Lims ID: IC L6

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

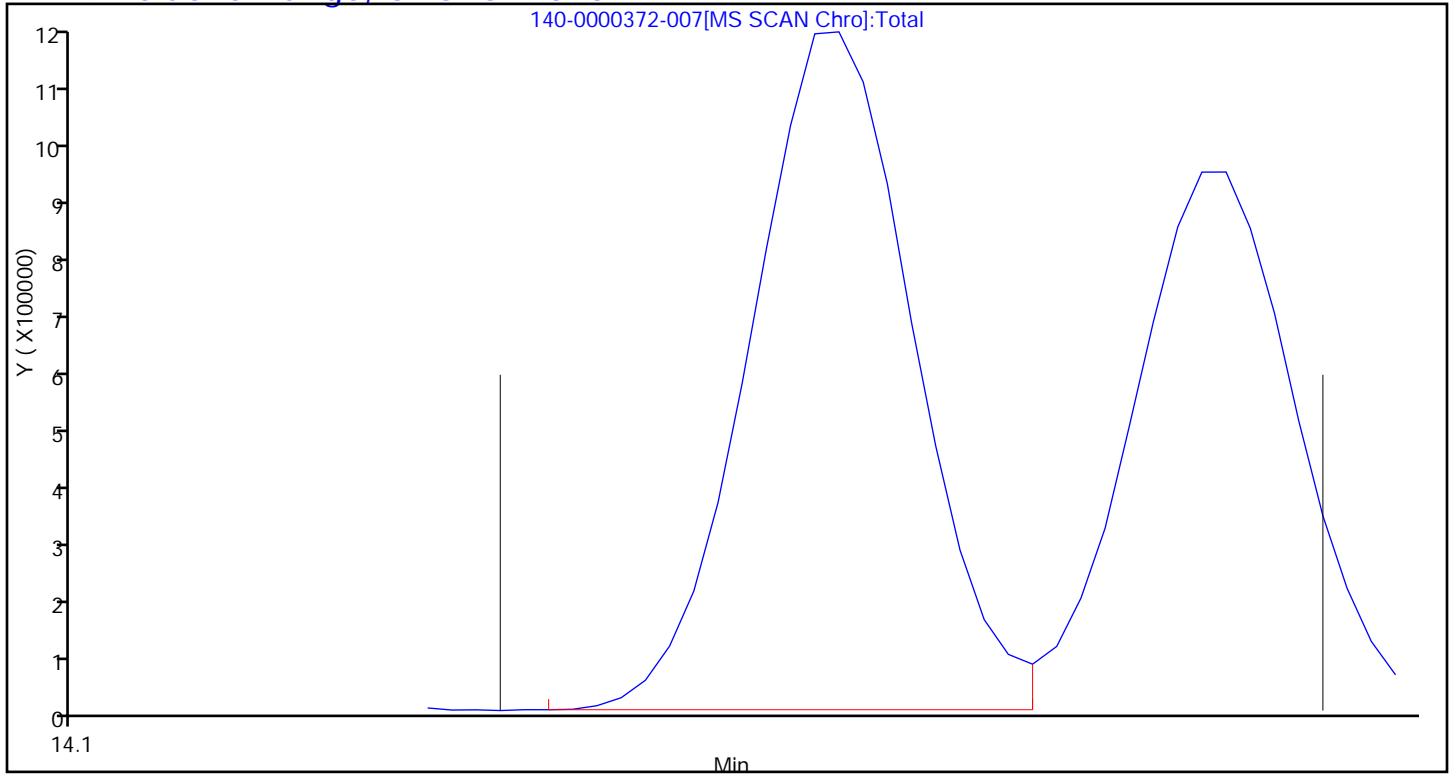
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-007.D

Injection Date: 21-Jan-2014 21:36:30

Instrument ID: MR

Lims ID: IC L6

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

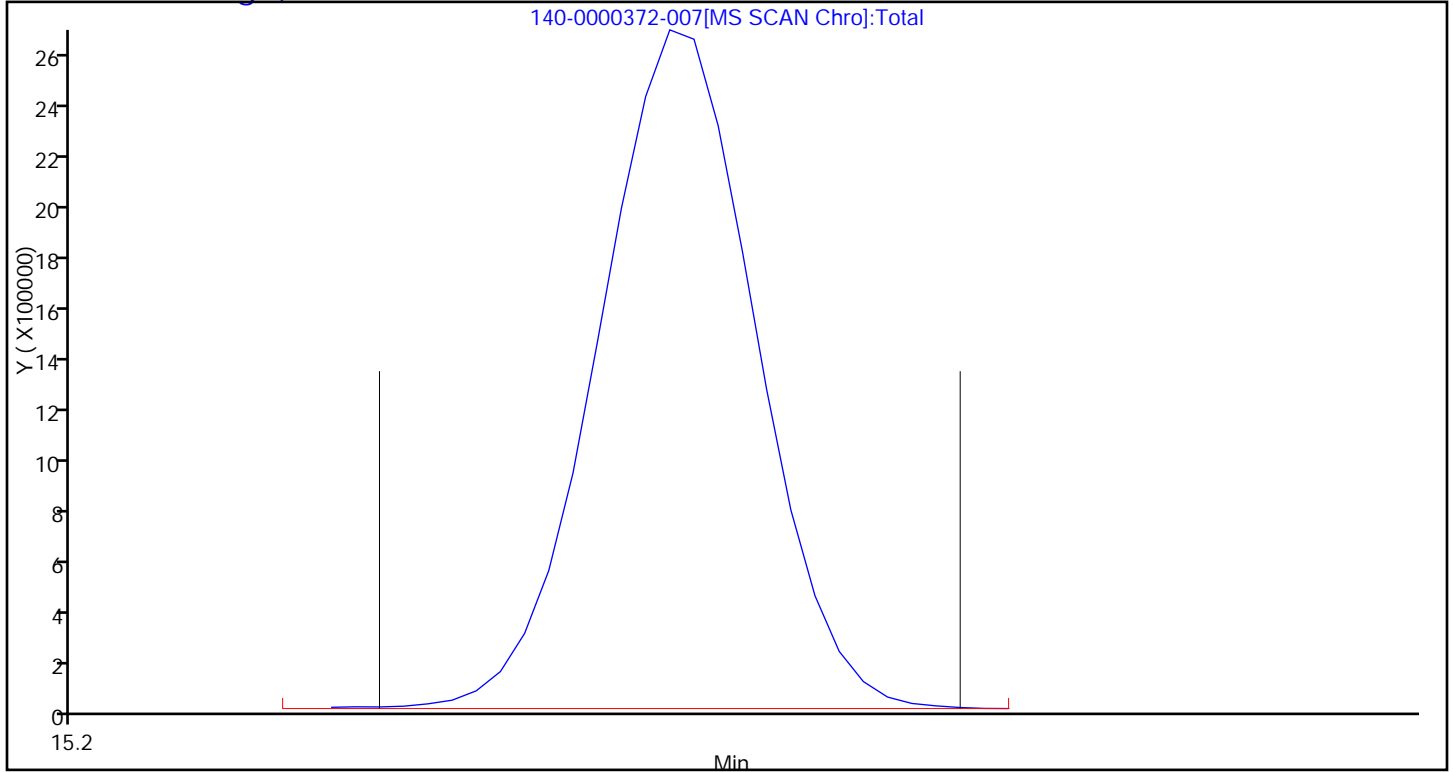
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-008.D
 Lims ID: IC L7 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 21-Jan-2014 22:24:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic I7
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:19:58 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:19:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.533	8.527	0.006	95	496447	4.00	
* 2 1,4-Difluorobenzene	114	10.825	10.819	0.006	96	2542377	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.161	17.156	0.005	90	2111167	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.927	19.925	0.002	90	1695064	4.08	
6 Chlorodifluoromethane	67	3.405	3.407	-0.002	93	189525	3.55	
7 Propene	41	3.416	3.417	-0.001	99	677975	3.25	
8 Dichlorodifluoromethane	85	3.459	3.461	-0.002	100	1806104	3.62	
9 Chloromethane	52	3.621	3.622	-0.001	99	266829	3.63	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.631	3.634	-0.003	93	1334827	3.74	
11 Acetaldehyde	44	3.766	3.766	0.0	95	1704135	7.51	
12 Vinyl chloride	62	3.782	3.784	-0.002	99	824704	3.66	
14 Butadiene	54	3.869	3.871	-0.002	97	683582	3.61	
13 Butane	43	3.869	3.872	-0.003	88	1316164	3.51	
15 Bromomethane	94	4.176	4.178	-0.002	99	675275	3.57	
16 Chloroethane	64	4.316	4.319	-0.003	99	417815	3.67	
17 Ethanol	31	4.446	4.437	0.009	91	1528437	18.2	
18 Vinyl bromide	106	4.624	4.621	0.003	98	684664	3.75	
19 2-Methylbutane	43	4.683	4.682	0.001	92	1066827	3.74	
21 Acrolein	56	4.893	4.893	0.0	92	370297	3.65	
20 Trichlorofluoromethane	101	4.899	4.898	0.001	99	1878183	3.82	
22 Acetonitrile	40	4.953	4.955	-0.002	100	374364	3.93	
23 Acetone	58	5.017	5.018	-0.001	84	606426	0.9659	
24 Pentane	72	5.130	5.131	-0.001	95	152828	3.79	
25 Isopropyl alcohol	45	5.130	5.132	-0.002	52	1429277	3.72	
26 Ethyl ether	31	5.292	5.298	-0.006	94	1006103	3.76	
27 1,1-Dichloroethene	96	5.610	5.610	0.0	94	597429	3.76	
28 Acrylonitrile	53	5.697	5.699	-0.002	95	678084	3.84	
29 2-Methyl-2-propanol	59	5.729	5.736	-0.007	93	1571340	4.01	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.805	5.805	0.0	95	1270272	3.82	
31 Methylene Chloride	84	5.950	5.951	-0.001	93	569295	3.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.972	5.972	0.0	91	712008	3.89	
33 Carbon disulfide	76	6.112	6.114	-0.002	99	2097643	3.88	
34 trans-1,2-Dichloroethene	96	6.786	6.784	0.002	95	729234	3.72	
35 2-Methylpentane	43	6.829	6.828	0.001	97	2128321	3.88	
36 Methyl tert-butyl ether	73	6.926	6.935	-0.009	98	2031281	3.82	
37 1,1-Dichloroethane	63	7.201	7.199	0.002	99	1359487	3.86	
38 Vinyl acetate	43	7.320	7.320	0.0	100	2275234	3.97	
39 2-Butanone (MEK)	72	7.762	7.763	-0.001	98	379816	3.34	
40 Hexane	56	7.832	7.830	0.002	88	739901	3.78	
41 cis-1,2-Dichloroethene	96	8.204	8.201	0.003	98	688848	3.80	
42 Ethyl acetate	43	8.404	8.410	-0.006	98	2077434	3.98	
43 Chloroform	83	8.560	8.555	0.005	94	1420734	3.85	
44 Tetrahydrofuran	42	8.959	8.967	-0.008	94	1071644	3.78	
45 1,1,1-Trichloroethane	97	9.606	9.603	0.003	96	1412036	3.91	
46 1,2-Dichloroethane	62	9.692	9.691	0.001	95	1089031	3.89	
49 n-Butanol	31	10.199	10.210	-0.011	62	336131	4.12	
47 Benzene	78	10.226	10.220	0.006	97	2144154	3.82	
48 Cyclohexane	69	10.242	10.239	0.003	93	359921	3.80	
50 Carbon tetrachloride	117	10.259	10.255	0.004	94	1495437	3.99	
51 2,3-Dimethylpentane	71	10.399	10.393	0.006	90	472890	3.88	
52 Thiophene	84	10.512	10.504	0.008	98	1308649	3.89	
53 Isooctane	57	11.111	11.110	0.001	98	4394059	3.85	
54 n-Heptane	71	11.553	11.550	0.003	94	802412	3.74	
55 1,2-Dichloropropane	63	11.580	11.576	0.004	83	880711	3.86	
56 Trichloroethene	130	11.639	11.636	0.003	95	912599	3.80	
57 Dibromomethane	93	11.704	11.702	0.002	94	852648	3.87	
58 Dichlorobromomethane	83	11.898	11.895	0.003	98	1616845	4.05	
59 1,4-Dioxane	88	11.914	11.918	-0.004	94	357320	4.05	
60 Methyl methacrylate	41	12.044	12.045	-0.001	95	1350095	4.09	
61 Methylcyclohexane	83	12.594	12.594	0.0	90	1335281	3.86	
62 4-Methyl-2-pentanone (MIBK)	43	13.100	13.106	-0.006	98	2288723	3.88	
63 cis-1,3-Dichloropropene	75	13.160	13.159	0.001	96	1204706	3.97	
64 trans-1,3-Dichloropropene	75	14.093	14.092	0.001	98	1217479	4.05	
65 Toluene	91	14.276	14.269	0.007	93	2494959	3.82	
66 1,1,2-Trichloroethane	83	14.357	14.354	0.003	98	745194	3.88	
67 2-Methylthiophene	97	14.475	14.472	0.003	98	2169550	3.90	
68 3-Methylthiophene	97	14.756	14.754	0.002	99	2197601	3.88	
69 2-Hexanone	58	14.939	14.940	-0.001	92	1166727	4.27	
71 Chlorodibromomethane	129	15.338	15.334	0.004	76	1492161	4.24	
70 n-Octane	85	15.338	15.335	0.003	96	845267	3.59	
72 Ethylene Dibromide	107	15.753	15.750	0.003	98	1347021	3.99	
73 Tetrachloroethene	129	15.910	15.910	0.0	95	858234	3.84	
74 Chlorobenzene	112	17.231	17.232	-0.001	91	1918625	3.67	
75 2,3-Dimethylheptane	43	17.393	17.390	0.003	95	3117038	3.87	
76 Ethylbenzene	91	17.738	17.734	0.004	99	3059129	3.76	
77 2-Ethylthiophene	97	17.894	17.891	0.003	99	2376566	3.84	
78 m-Xylene & p-Xylene	91	18.013	18.011	0.002	98	4951594	7.67	
79 Bromoform	173	18.665	18.662	0.003	96	1466031	4.37	
80 Styrene	104	18.779	18.776	0.003	97	1886727	4.15	
81 n-Nonane	57	18.849	18.845	0.004	95	2155419	3.93	
82 o-Xylene	91	18.881	18.879	0.002	97	2514471	3.77	
83 1,1,2,2-Tetrachloroethane	83	19.420	19.422	-0.002	99	2074761	4.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	19.690	19.688	0.002	95	610443	3.95	
85 Isopropylbenzene	105	19.922	19.919	0.003	97	3910860	3.82	
86 N-Propylbenzene	120	20.892	20.891	0.001	97	1096085	3.93	
87 2-Chlorotoluene	126	20.914	20.915	-0.001	92	899846	3.75	
88 4-Ethyltoluene	105	21.184	21.182	0.002	98	4140876	3.94	
89 1,3,5-Trimethylbenzene	120	21.340	21.337	0.003	92	1871245	4.00	
90 Alpha Methyl Styrene	118	21.771	21.770	0.001	86	1692897	4.55	
91 n-Decane	57	22.057	22.050	0.007	88	2899818	3.84	
92 tert-Butylbenzene	119	22.154	22.149	0.005	89	3635174	3.99	
93 1,2,4-Trimethylbenzene	105	22.181	22.179	0.002	96	3511155	4.05	
94 1,3-Dichlorobenzene	146	22.661	22.660	0.001	98	2272436	3.90	
95 sec-Butylbenzene	105	22.715	22.710	0.005	99	5220359	4.04	
96 Benzyl chloride	91	22.834	22.831	0.003	97	3255258	4.58	
97 1,4-Dichlorobenzene	146	22.850	22.847	0.003	92	2314541	3.94	
98 4-Isopropyltoluene	119	23.082	23.081	0.001	95	4529433	4.09	
99 1,2,3-Trimethylbenzene	105	23.136	23.134	0.002	99	3163809	4.05	
100 Butylcyclohexane	83	23.330	23.327	0.003	90	2812741	4.04	
101 1,2-Dichlorobenzene	146	23.599	23.598	0.001	94	2227883	3.96	
102 2,3-Dihydroindene	117	23.626	23.625	0.001	90	3145786	3.99	
103 Indene	116	23.901	23.898	0.003	88	3328692	4.30	
104 n-Butylbenzene	91	24.036	24.031	0.005	98	4248256	4.13	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.894	24.892	0.002	98	4269771	4.11	
106 Undecane	57	24.953	24.950	0.003	96	3537200	4.30	
107 1,2,4,5-Tetramethylbenzene	119	25.816	25.814	0.002	97	4488609	4.14	
108 1,2,3,5-Tetramethylbenzene	119	25.945	25.942	0.003	95	2770367	4.08	
109 1,2,3,4-Tetramethylbenzene	119	26.840	26.837	0.003	97	3734329	4.12	
110 Dodecane	57	27.455	27.451	0.004	94	3386466	4.30	
111 1,2,4-Trichlorobenzene	180	27.525	27.524	0.001	91	1935485	4.08	
112 Naphthalene	128	27.762	27.760	0.002	99	4360329	4.16	
113 Benzo(b)thiophene	134	27.956	27.953	0.003	99	3478243	4.21	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	85	1755059	3.93	
115 1,2,3-Trichlorobenzene	180	28.334	28.333	0.001	90	1833316	4.08	
116 2-Methylnaphthalene	142	29.817	29.812	0.005	100	2220866	27.9	
117 1-Methylnaphthalene	142	30.124	30.124	0.0	100	1820779	27.3	
A 118 C6 Range	1	7.853	7.773 -	7.902	0	6312165	3.31	
A 119 Toluene Range	1	14.297	14.195 -	14.389	0	11282453	4.57	
A 120 C8 Range	1	15.344	15.268 -	15.419	0	14290611	3.76	
S 124 Xylenes, Total	100				0		11.4	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-008.D

Injection Date: 21-Jan-2014 22:24:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L7

Lab Sample ID:

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

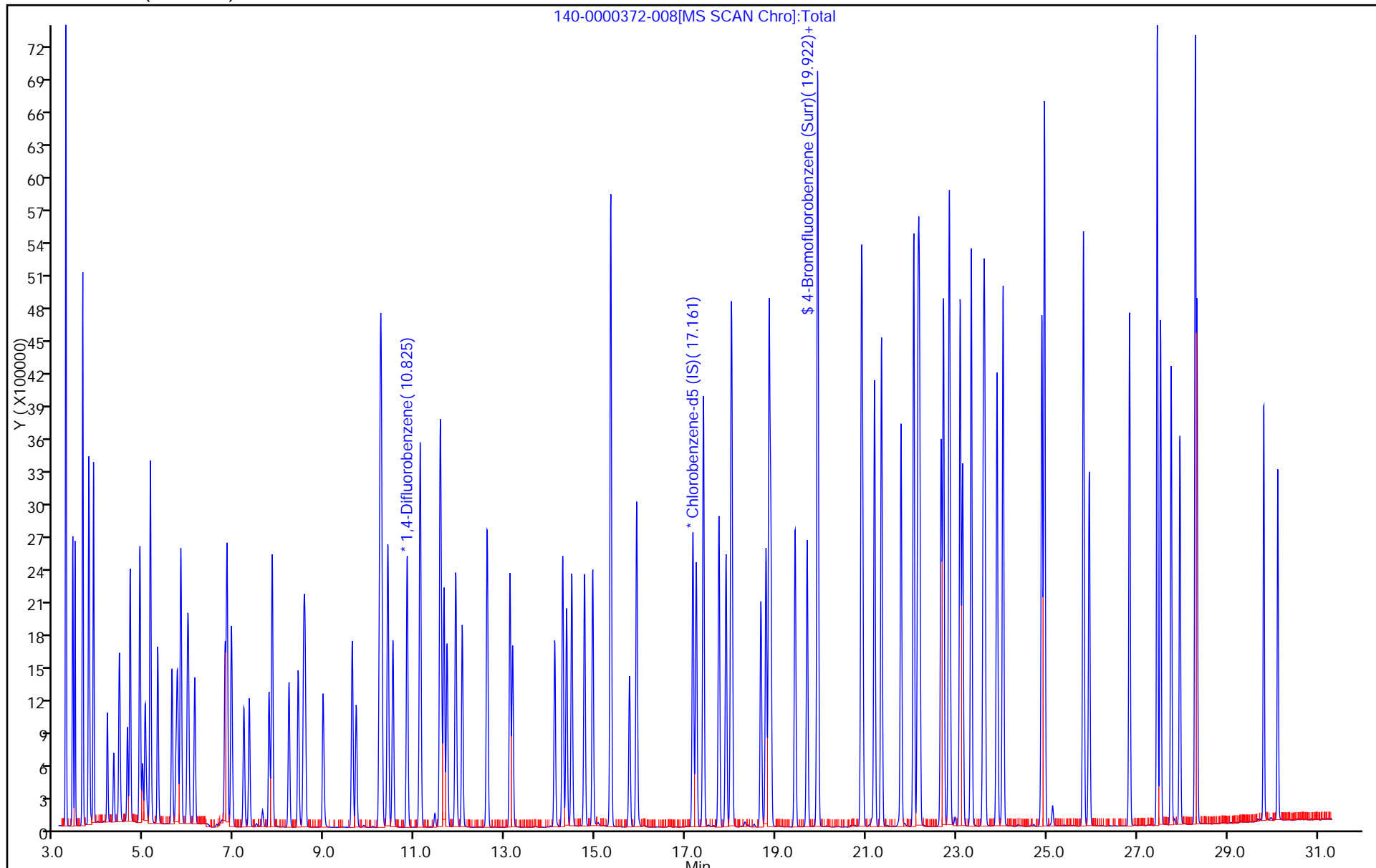
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-008.D

Injection Date: 21-Jan-2014 22:24:30

Instrument ID: MR

Lims ID: IC L7

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

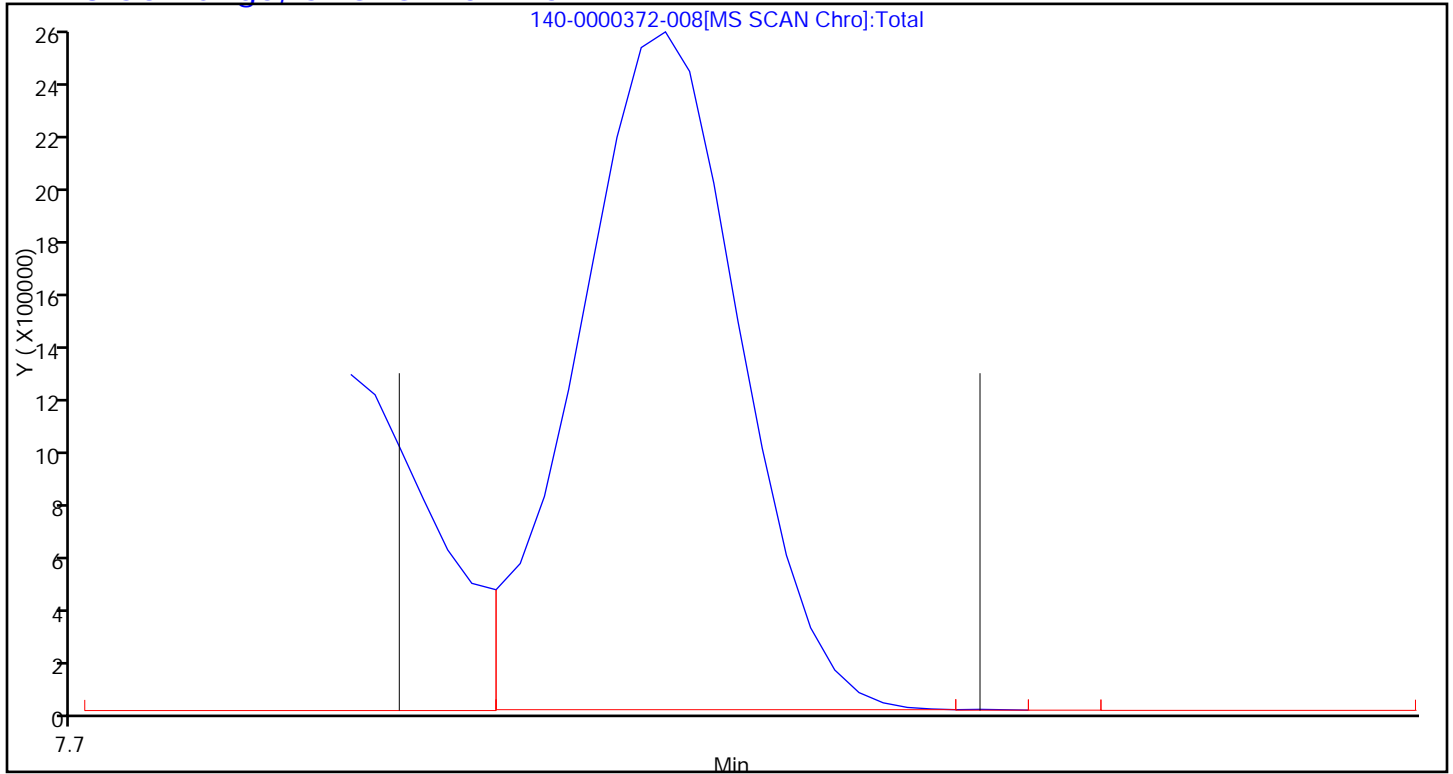
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-008.D

Injection Date: 21-Jan-2014 22:24:30

Instrument ID: MR

Lims ID: IC L7

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

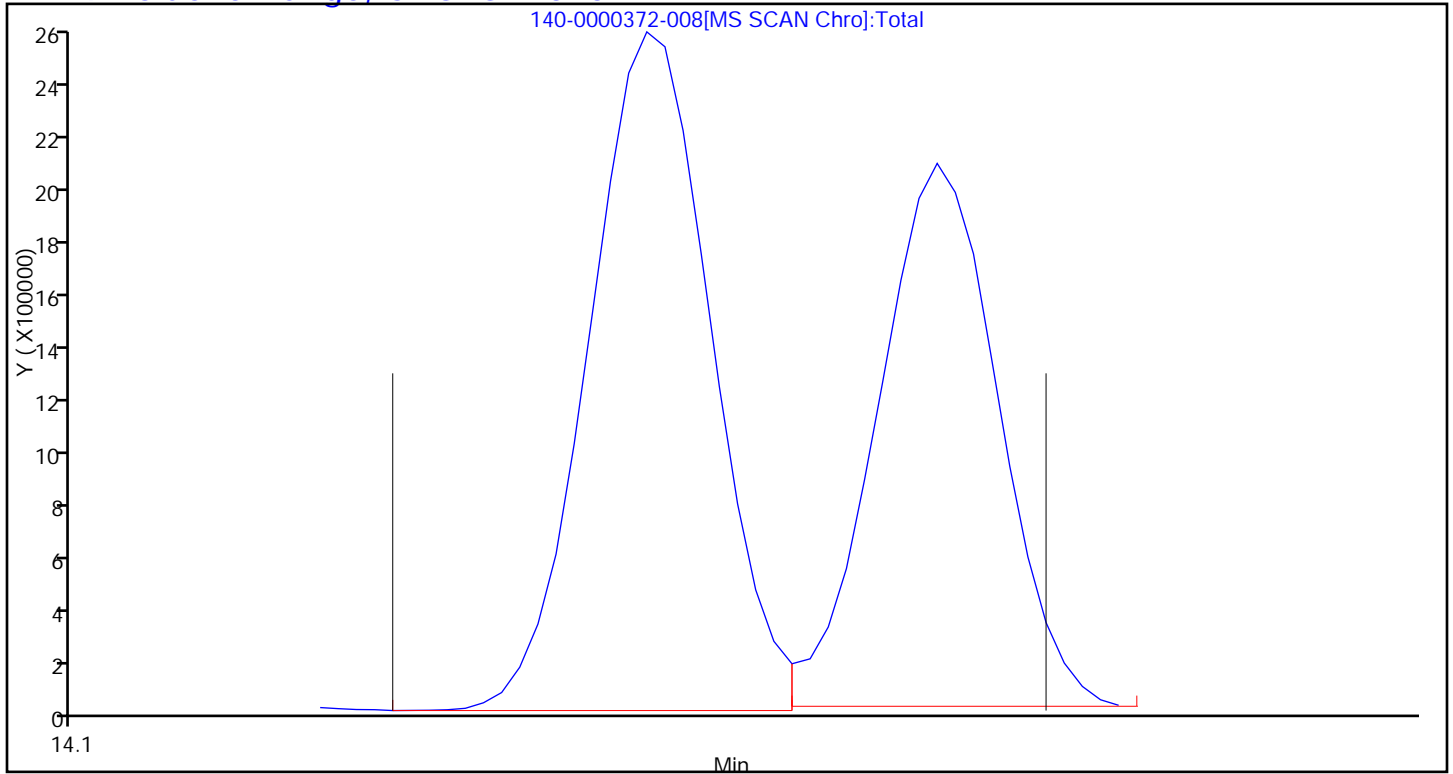
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-008.D

Injection Date: 21-Jan-2014 22:24:30

Instrument ID: MR

Lims ID: IC L7

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

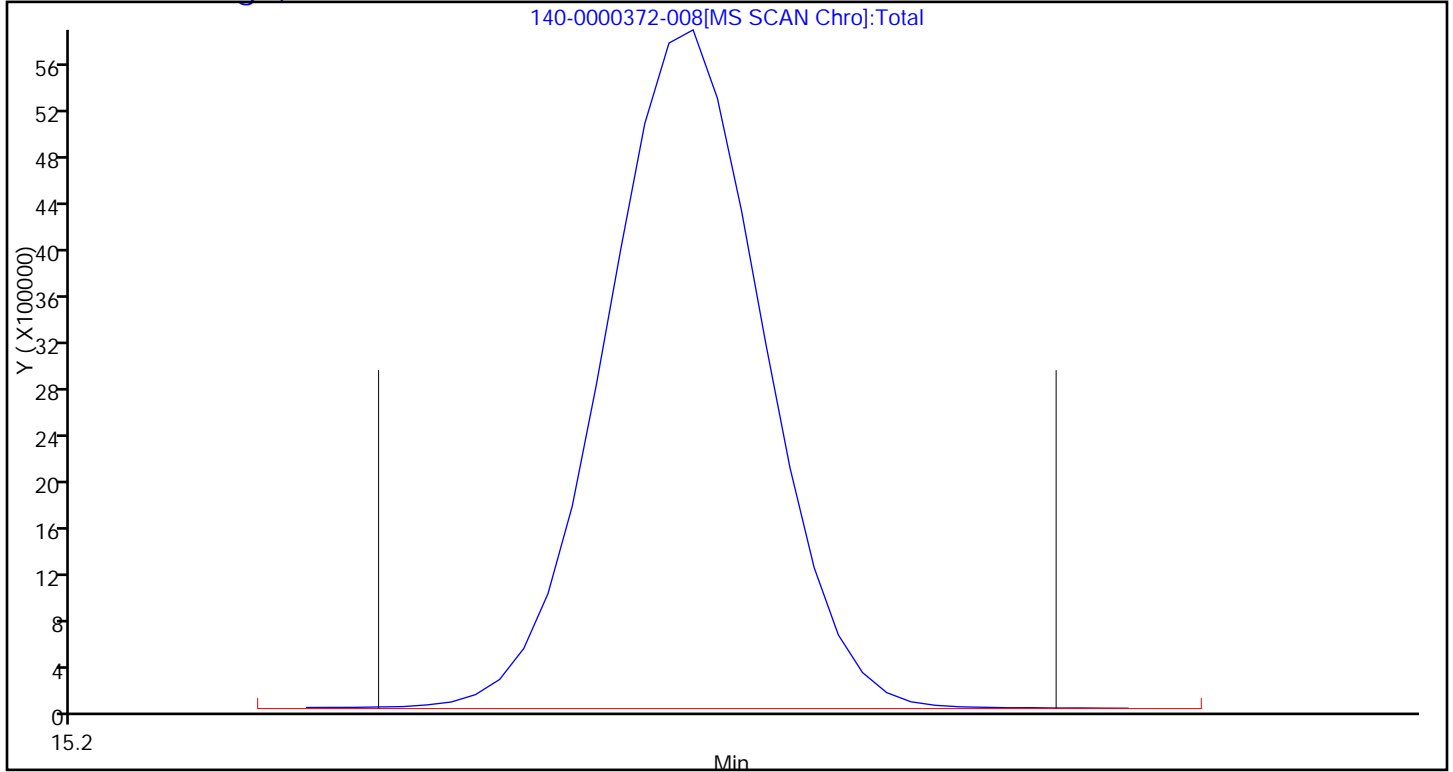
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-009.D
 Lims ID: IC L8 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 21-Jan-2014 23:13:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic l8
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:20:07 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:20:07

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.539	8.527	0.012	93	519146	4.00	
* 2 1,4-Difluorobenzene	114	10.825	10.819	0.006	96	2615959	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.161	17.156	0.005	86	2155167	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.927	19.925	0.002	88	1657672	3.90	
6 Chlorodifluoromethane	67	3.405	3.407	-0.002	93	383917	6.88	
7 Propene	41	3.416	3.417	-0.001	98	1388816	6.37	
8 Dichlorodifluoromethane	85	3.459	3.461	-0.002	100	3665312	7.03	
9 Chloromethane	52	3.621	3.622	-0.001	99	538957	7.00	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.632	3.634	-0.002	93	2741426	7.34	
11 Acetaldehyde	44	3.766	3.766	0.0	93	3252841	13.7	
12 Vinyl chloride	62	3.783	3.784	-0.002	99	1672679	7.10	
14 Butadiene	54	3.869	3.871	-0.002	97	1379269	6.96	
13 Butane	43	3.869	3.872	-0.003	89	2629992	6.71	
15 Bromomethane	94	4.176	4.178	-0.002	99	1402517	7.10	
16 Chloroethane	64	4.322	4.319	0.003	99	854738	7.17	
17 Ethanol	31	4.451	4.437	0.014	91	2991357	34.1	
18 Vinyl bromide	106	4.624	4.621	0.003	98	1427658	7.48	
19 2-Methylbutane	43	4.683	4.682	0.001	91	2158036	7.24	
21 Acrolein	56	4.899	4.893	0.006	87	838433	7.89	
20 Trichlorofluoromethane	101	4.899	4.898	0.001	99	4029712	7.83	
22 Acetonitrile	40	4.958	4.955	0.003	100	830375	8.34	
23 Acetone	58	5.017	5.018	-0.001	84	1110514	1.69	
24 Pentane	72	5.131	5.131	0.0	96	323363	7.66	
25 Isopropyl alcohol	45	5.141	5.132	0.009	72	3005473	7.48	
26 Ethyl ether	31	5.292	5.298	-0.006	94	2205019	7.88	
27 1,1-Dichloroethene	96	5.611	5.610	0.001	94	1280379	7.71	
28 Acrylonitrile	53	5.708	5.699	0.009	95	1527509	8.27	
29 2-Methyl-2-propanol	59	5.735	5.736	-0.001	95	3350917	8.19	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.810	5.805	0.005	96	2766619	7.95	
31 Methylene Chloride	84	5.956	5.951	0.005	93	1216512	7.47	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.977	5.972	0.005	91	1522318	7.95	
33 Carbon disulfide	76	6.117	6.114	0.003	99	4513764	7.99	
34 trans-1,2-Dichloroethene	96	6.791	6.784	0.007	95	1574684	7.69	
35 2-Methylpentane	43	6.835	6.828	0.007	96	4555648	7.94	
36 Methyl tert-butyl ether	73	6.932	6.935	-0.003	97	4464258	8.04	
37 1,1-Dichloroethane	63	7.207	7.199	0.008	99	2924949	7.94	
38 Vinyl acetate	43	7.325	7.320	0.005	100	5209443	8.68	
39 2-Butanone (MEK)	72	7.762	7.763	-0.001	98	802740	6.74	
40 Hexane	56	7.838	7.830	0.008	87	1611707	7.87	
41 cis-1,2-Dichloroethene	96	8.210	8.201	0.009	98	1513772	7.99	
42 Ethyl acetate	43	8.409	8.410	-0.001	98	4498244	8.25	
43 Chloroform	83	8.566	8.555	0.011	96	3094108	8.01	
44 Tetrahydrofuran	42	8.959	8.967	-0.008	94	2345980	7.91	
45 1,1,1-Trichloroethane	97	9.612	9.603	0.009	97	3097796	8.21	
46 1,2-Dichloroethane	62	9.698	9.691	0.007	95	2363643	8.20	
49 n-Butanol	31	10.205	10.210	-0.005	60	725123	8.64	
47 Benzene	78	10.226	10.220	0.006	97	4710334	8.17	
48 Cyclohexane	69	10.243	10.239	0.004	93	783531	8.04	
50 Carbon tetrachloride	117	10.264	10.255	0.009	94	3276213	8.50	
51 2,3-Dimethylpentane	71	10.399	10.393	0.006	90	1039504	8.28	
52 Thiophene	84	10.512	10.504	0.008	98	2854257	8.25	
53 Isooctane	57	11.116	11.110	0.006	99	9709733	8.27	
54 n-Heptane	71	11.558	11.550	0.008	93	1782688	8.08	
55 1,2-Dichloropropane	63	11.580	11.576	0.004	84	1962116	8.35	
56 Trichloroethene	130	11.645	11.636	0.009	88	1998232	8.09	
57 Dibromomethane	93	11.709	11.702	0.007	94	1899946	8.38	
58 Dichlorobromomethane	83	11.898	11.895	0.003	98	3649717	8.90	
59 1,4-Dioxane	88	11.914	11.918	-0.004	95	761008	8.39	
60 Methyl methacrylate	41	12.049	12.045	0.004	96	2936848	8.65	
61 Methylcyclohexane	83	12.599	12.594	0.005	91	2915820	8.20	
62 4-Methyl-2-pentanone (MIBK)	43	13.106	13.106	0.0	98	4983522	8.20	
63 cis-1,3-Dichloropropene	75	13.165	13.159	0.006	95	2744994	8.79	
64 trans-1,3-Dichloropropene	75	14.098	14.092	0.006	98	2805549	9.15	
65 Toluene	91	14.276	14.269	0.007	93	5651797	8.47	
66 1,1,2-Trichloroethane	83	14.362	14.354	0.008	98	1692689	8.64	
67 2-Methylthiophene	97	14.476	14.472	0.004	98	4922137	8.67	
68 3-Methylthiophene	97	14.761	14.754	0.007	100	5024667	8.68	
69 2-Hexanone	58	14.939	14.940	-0.001	92	2545403	9.12	
71 Chlorodibromomethane	129	15.338	15.334	0.004	78	3461156	9.63	
70 n-Octane	85	15.338	15.335	0.003	94	1920092	7.98	
72 Ethylene Dibromide	107	15.759	15.750	0.009	98	3078496	8.93	
73 Tetrachloroethene	129	15.915	15.910	0.005	96	1918467	8.41	
74 Chlorobenzene	112	17.236	17.232	0.004	92	4301423	8.06	
75 2,3-Dimethylheptane	43	17.393	17.390	0.003	95	6820807	8.30	
76 Ethylbenzene	91	17.738	17.734	0.004	99	6722784	8.09	
77 2-Ethylthiophene	97	17.894	17.891	0.003	98	5251689	8.30	
78 m-Xylene & p-Xylene	91	18.018	18.011	0.007	98	10830154	16.4	
79 Bromoform	173	18.671	18.662	0.009	96	3348355	9.79	
80 Styrene	104	18.779	18.776	0.003	98	4146450	8.93	
81 n-Nonane	57	18.849	18.845	0.004	95	4625808	8.25	
82 o-Xylene	91	18.881	18.879	0.002	97	5434192	7.99	
83 1,1,2,2-Tetrachloroethane	83	19.426	19.422	0.004	99	4530909	8.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	19.695	19.688	0.007	96	1306041	8.28	
85 Isopropylbenzene	105	19.922	19.919	0.003	96	8297948	7.94	
86 N-Propylbenzene	120	20.898	20.891	0.007	97	2347273	8.25	
87 2-Chlorotoluene	126	20.919	20.915	0.004	93	1916410	7.82	
88 4-Ethyltoluene	105	21.189	21.182	0.007	99	8991959	8.38	
89 1,3,5-Trimethylbenzene	120	21.345	21.337	0.008	92	4089459	8.57	
90 Alpha Methyl Styrene	118	21.777	21.770	0.007	86	3799806	10.0	
91 n-Decane	57	22.057	22.050	0.007	88	6347936	8.23	
92 tert-Butylbenzene	119	22.154	22.149	0.005	88	8006175	8.62	
93 1,2,4-Trimethylbenzene	105	22.187	22.179	0.008	96	7688505	8.69	
94 1,3-Dichlorobenzene	146	22.667	22.660	0.007	98	5013130	8.42	
95 sec-Butylbenzene	105	22.715	22.710	0.005	98	11401367	8.63	
96 Benzyl chloride	91	22.839	22.831	0.008	97	7270056	10.0	
97 1,4-Dichlorobenzene	146	22.855	22.847	0.008	93	5116956	8.53	
98 4-Isopropyltoluene	119	23.087	23.081	0.006	97	9970812	8.82	
99 1,2,3-Trimethylbenzene	105	23.141	23.134	0.007	99	6891651	8.64	
100 Butylcyclohexane	83	23.335	23.327	0.008	91	6139848	8.63	
101 1,2-Dichlorobenzene	146	23.605	23.598	0.007	94	4886017	8.50	
102 2,3-Dihydroindene	117	23.626	23.625	0.001	90	6873229	8.55	
103 Indene	116	23.901	23.898	0.003	88	7446713	9.43	
104 n-Butylbenzene	91	24.036	24.031	0.005	98	9248468	8.81	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.894	24.892	0.002	97	9335313	8.80	
106 Undecane	57	24.953	24.950	0.003	96	7558659	8.99	
107 1,2,4,5-Tetramethylbenzene	119	25.821	25.814	0.007	97	9702773	8.77	
108 1,2,3,5-Tetramethylbenzene	119	25.945	25.942	0.003	95	5976665	8.62	
109 1,2,3,4-Tetramethylbenzene	119	26.840	26.837	0.003	97	8077878	8.73	
110 Dodecane	57	27.455	27.451	0.004	95	7220626	8.98	
111 1,2,4-Trichlorobenzene	180	27.525	27.524	0.001	94	4249934	8.78	
112 Naphthalene	128	27.762	27.760	0.002	99	9416429	8.81	
113 Benzo(b)thiophene	134	27.957	27.953	0.003	99	7484531	8.87	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	85	3905184	8.57	
115 1,2,3-Trichlorobenzene	180	28.334	28.333	0.001	91	3940017	8.58	
116 2-Methylnaphthalene	142	29.811	29.812	-0.001	100	4787031	59.0	
117 1-Methylnaphthalene	142	30.124	30.124	0.0	100	3816871	56.1	
A 118 C6 Range	1	7.853	7.773 -	7.902	0	13738196	7.01	
A 119 Toluene Range	1	14.286	14.201 -	14.362	0	25672347	10.1	
A 120 C8 Range	1	15.338	15.274 -	15.403	0	31410019	8.04	
S 124 Xylenes, Total	100				0		24.4	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-009.D

Injection Date: 21-Jan-2014 23:13:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L8

Lab Sample ID:

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

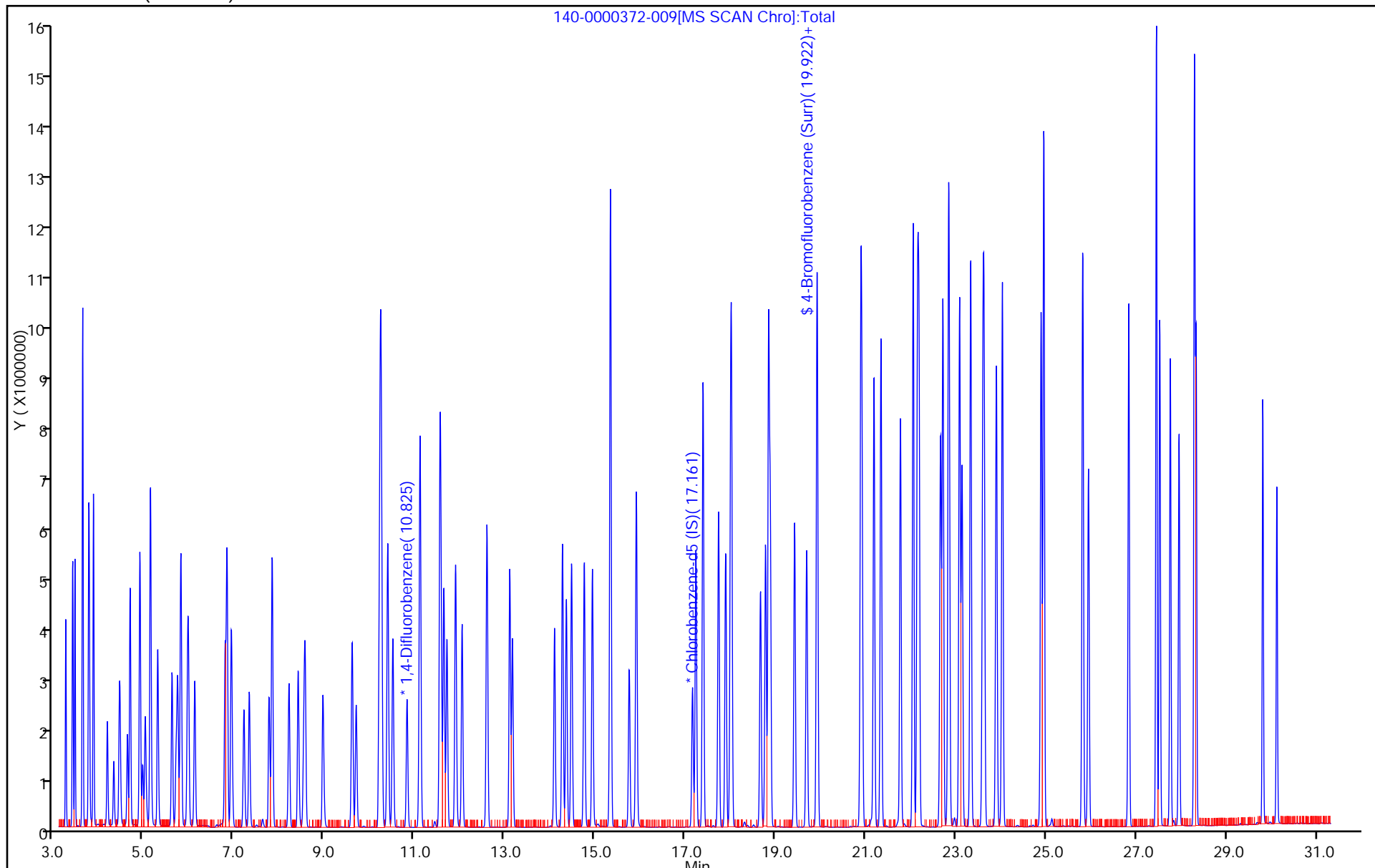
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-009.D

Injection Date: 21-Jan-2014 23:13:30

Instrument ID: MR

Lims ID: IC L8

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

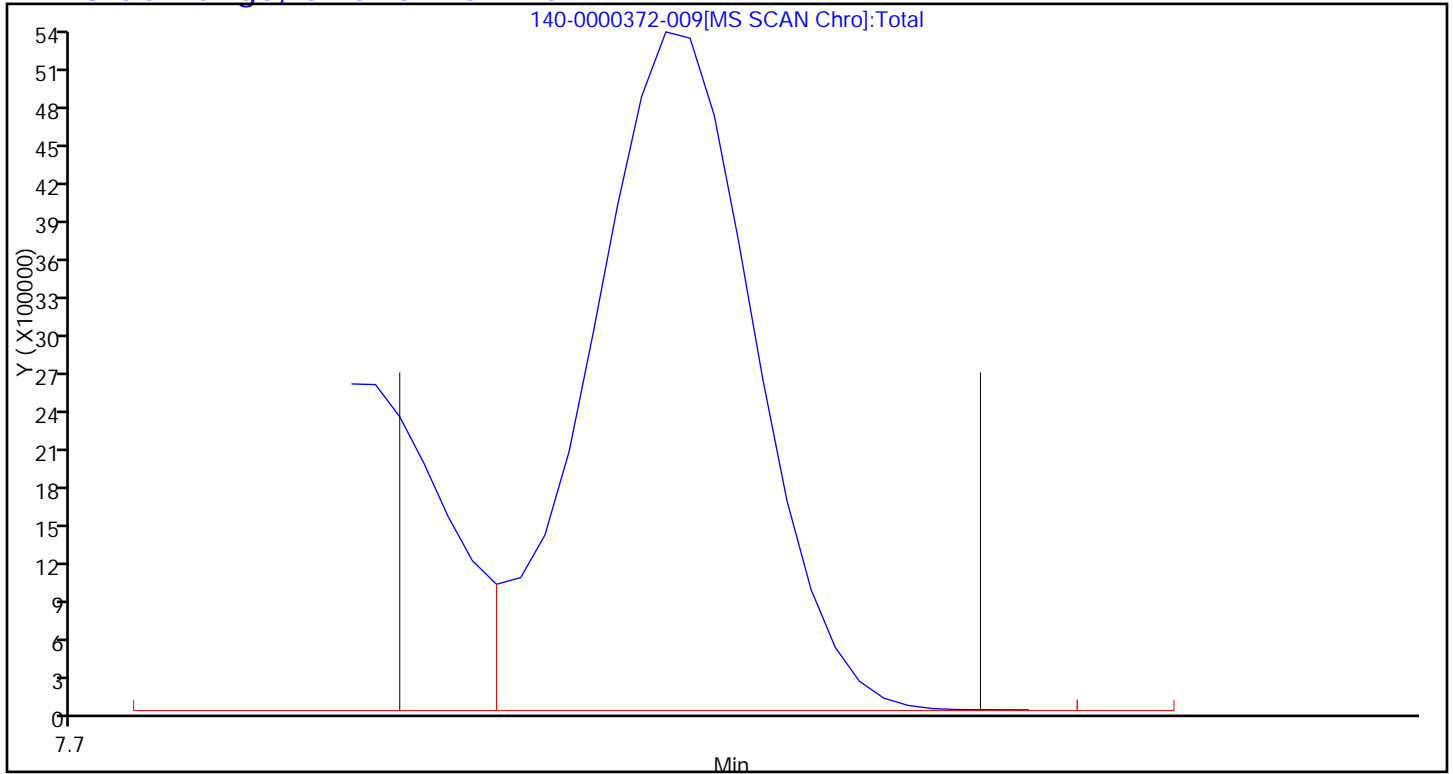
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-009.D

Injection Date: 21-Jan-2014 23:13:30

Instrument ID: MR

Lims ID: IC L8

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

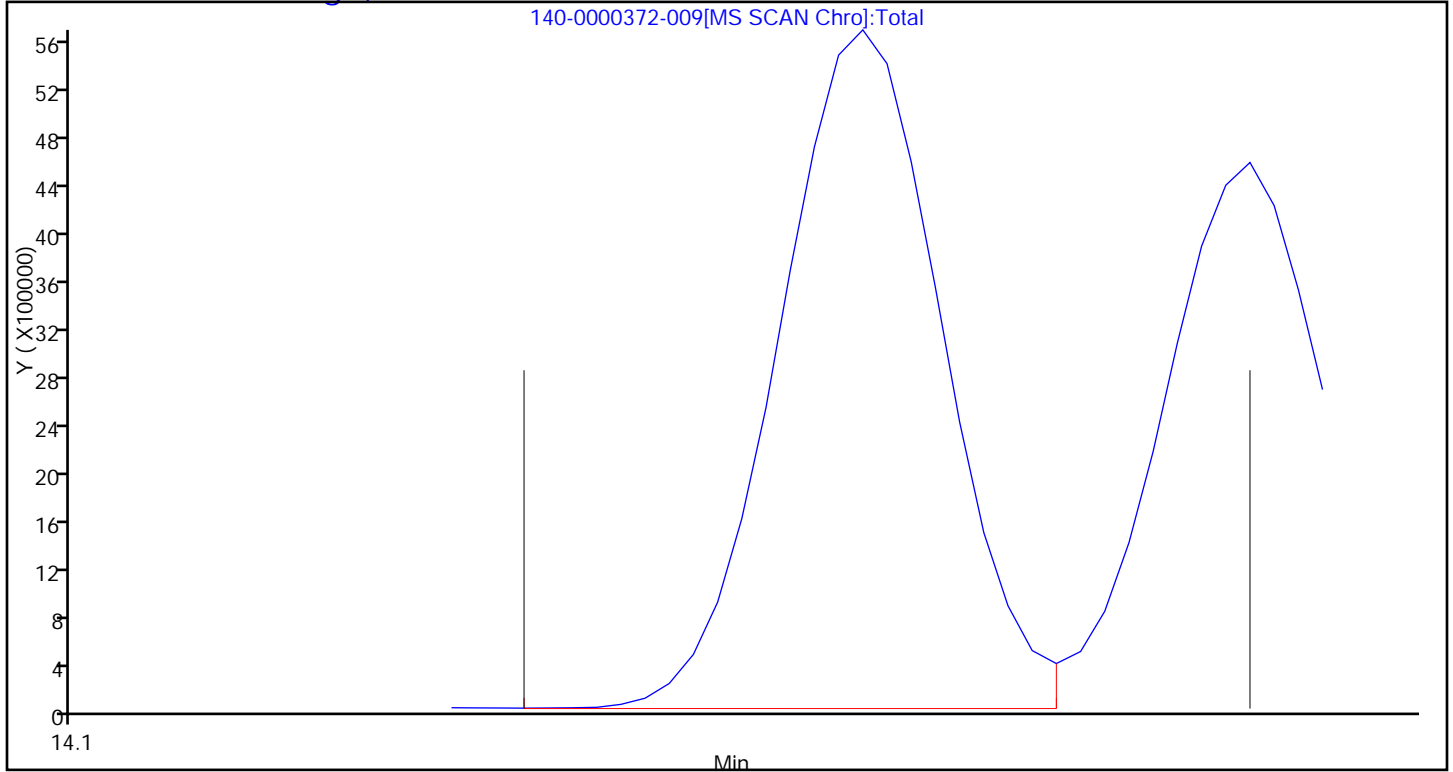
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-009.D

Injection Date: 21-Jan-2014 23:13:30

Instrument ID: MR

Lims ID: IC L8

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

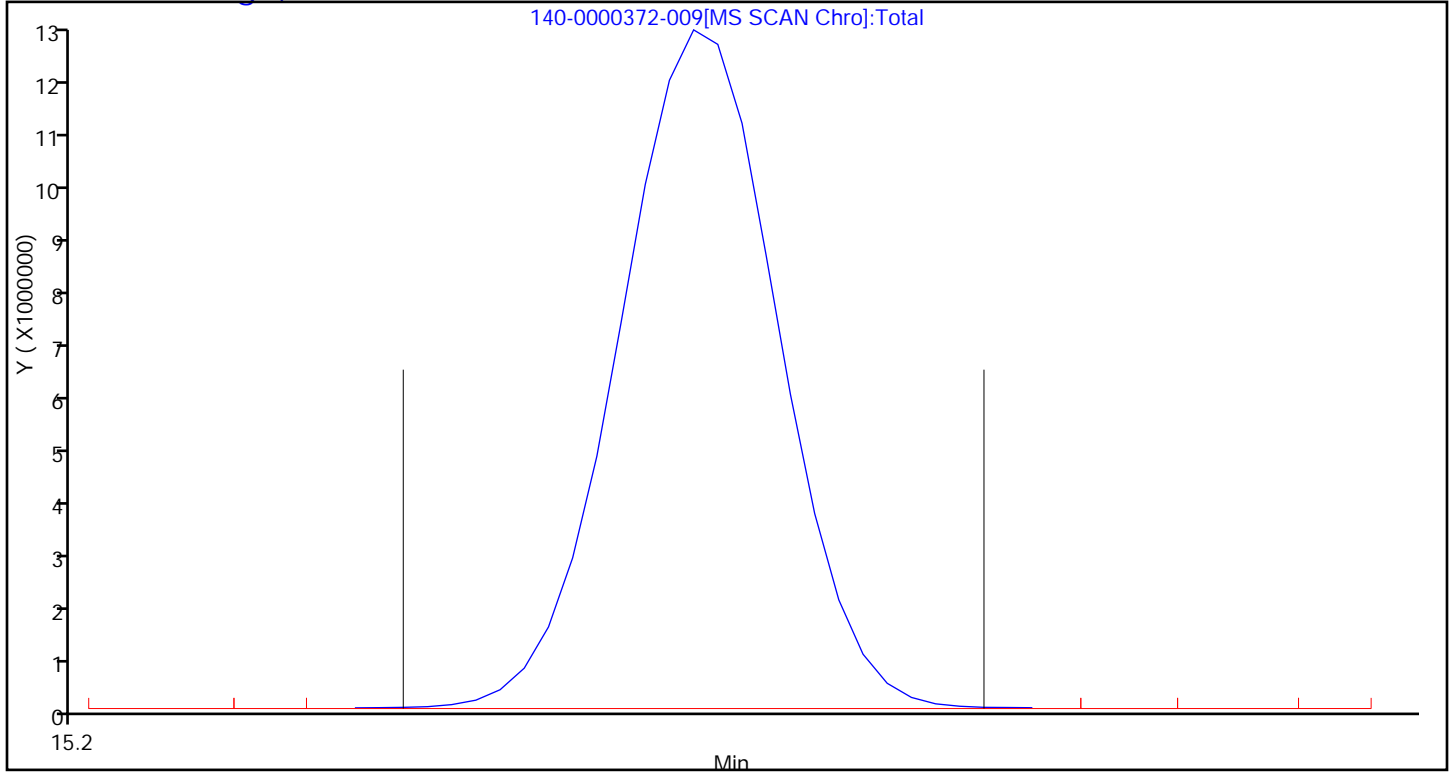
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Lims ID: IC L9 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 22-Jan-2014 00:00:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ic I9
 Misc. Info.: R012114I,
 Operator ID: 403648 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:20:36 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 23-Jan-2014 16:20:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.544	8.527	0.017	91	618569	4.00	
* 2 1,4-Difluorobenzene	114	10.836	10.819	0.017	96	3067740	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.161	17.156	0.005	85	2568116	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.933	19.925	0.008	91	2043832	4.04	
6 Chlorodifluoromethane	67	3.405	3.407	-0.002	96	775758	11.7	
7 Propene	41	3.416	3.417	-0.001	98	2615684	10.1	
8 Dichlorodifluoromethane	85	3.464	3.461	0.003	100	7822702	12.6	
9 Chloromethane	52	3.621	3.622	-0.001	99	1029235	11.2	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.637	3.634	0.003	92	5526469	12.4	
11 Acetaldehyde	44	3.772	3.766	0.006	92	5815631	20.6	
12 Vinyl chloride	62	3.788	3.784	0.004	99	3337115	11.9	
14 Butadiene	54	3.874	3.871	0.003	97	2781510	11.8	
13 Butane	43	3.874	3.872	0.002	88	5240628	11.2	
15 Bromomethane	94	4.181	4.178	0.003	99	2860449	12.1	
16 Chloroethane	64	4.327	4.319	0.008	99	1732990	12.2	
17 Ethanol	31	4.462	4.437	0.025	91	5507650	52.7	
18 Vinyl bromide	106	4.629	4.621	0.008	98	2919357	12.8	
19 2-Methylbutane	43	4.688	4.682	0.006	91	4310850	12.1	
21 Acrolein	56	4.904	4.893	0.011	82	1671381	13.2	
20 Trichlorofluoromethane	101	4.909	4.898	0.011	98	8470940	13.8	
22 Acetonitrile	40	4.969	4.955	0.014	100	1655942	14.0	
23 Acetone	58	5.028	5.018	0.010	90	1885545	2.41	
24 Pentane	72	5.136	5.131	0.005	96	685375	13.6	
25 Isopropyl alcohol	45	5.157	5.132	0.025	79	5909935	12.3	
26 Ethyl ether	31	5.303	5.298	0.005	95	4479274	13.4	
27 1,1-Dichloroethene	96	5.621	5.610	0.011	94	2725763	13.8	
28 Acrylonitrile	53	5.713	5.699	0.014	95	3175446	14.4	
29 2-Methyl-2-propanol	59	5.751	5.736	0.015	94	6801594	13.9	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.815	5.805	0.010	96	5856167	14.1	
31 Methylene Chloride	84	5.966	5.951	0.015	93	2574915	13.3	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.988	5.972	0.016	91	3102495	13.6	
33 Carbon disulfide	76	6.123	6.114	0.009	99	9570753	14.2	
34 trans-1,2-Dichloroethene	96	6.797	6.784	0.013	95	3333749	13.7	
35 2-Methylpentane	43	6.840	6.828	0.012	96	9416462	13.8	
36 Methyl tert-butyl ether	73	6.937	6.935	0.002	97	9299623	14.0	
37 1,1-Dichloroethane	63	7.217	7.199	0.018	99	6117161	13.9	
38 Vinyl acetate	43	7.336	7.320	0.016	100	10788310	15.1	
39 2-Butanone (MEK)	72	7.773	7.763	0.010	98	1621811	11.4	
40 Hexane	56	7.843	7.830	0.013	90	3375887	13.8	
41 cis-1,2-Dichloroethene	96	8.215	8.201	0.014	97	3183069	14.1	
42 Ethyl acetate	43	8.420	8.410	0.010	98	9130416	14.1	
43 Chloroform	83	8.571	8.555	0.016	96	6500051	14.1	
44 Tetrahydrofuran	42	8.970	8.967	0.003	95	4704300	13.3	
45 1,1,1-Trichloroethane	97	9.617	9.603	0.014	97	6517986	14.5	
46 1,2-Dichloroethane	62	9.703	9.691	0.012	96	4882126	14.4	
49 n-Butanol	31	10.210	10.210	0.0	60	1409619	14.3	
47 Benzene	78	10.237	10.220	0.017	97	9738908	14.4	
48 Cyclohexane	69	10.248	10.239	0.009	96	1602009	14.0	
50 Carbon tetrachloride	117	10.269	10.255	0.014	99	6979069	15.4	
51 2,3-Dimethylpentane	71	10.404	10.393	0.011	90	2185934	14.9	
52 Thiophene	84	10.517	10.504	0.013	98	6012656	14.8	
53 Isooctane	57	11.121	11.110	0.011	99	20177035	14.6	
54 n-Heptane	71	11.564	11.550	0.014	92	3708139	14.3	
55 1,2-Dichloropropane	63	11.591	11.576	0.015	85	4065194	14.8	
56 Trichloroethene	130	11.650	11.636	0.014	93	4233917	14.6	
57 Dibromomethane	93	11.720	11.702	0.018	93	4002957	15.1	
58 Dichlorobromomethane	83	11.909	11.895	0.014	98	7701142	16.0	
59 1,4-Dioxane	88	11.925	11.918	0.007	92	1498523	14.1	
60 Methyl methacrylate	41	12.054	12.045	0.009	96	5931448	14.9	
61 Methylcyclohexane	83	12.604	12.594	0.010	91	6144345	14.7	
62 4-Methyl-2-pentanone (MIBK)	43	13.117	13.106	0.011	97	10290598	14.4	
63 cis-1,3-Dichloropropene	75	13.170	13.159	0.011	94	5802900	15.8	
64 trans-1,3-Dichloropropene	75	14.103	14.092	0.011	99	5975743	16.4	
65 Toluene	91	14.281	14.269	0.012	94	11988079	15.1	
66 1,1,2-Trichloroethane	83	14.368	14.354	0.014	99	3578266	15.3	
67 2-Methylthiophene	97	14.486	14.472	0.014	98	10368724	15.3	
68 3-Methylthiophene	97	14.767	14.754	0.013	100	10634076	15.4	
69 2-Hexanone	58	14.945	14.940	0.005	93	5351334	16.1	
71 Chlorodibromomethane	129	15.344	15.334	0.010	91	7355570	17.2	
70 n-Octane	85	15.344	15.335	0.009	93	3934135	13.7	
72 Ethylene Dibromide	107	15.764	15.750	0.014	98	6645921	16.2	
73 Tetrachloroethene	129	15.921	15.910	0.011	96	4047132	14.9	
74 Chlorobenzene	112	17.236	17.232	0.004	92	9200516	14.5	
75 2,3-Dimethylheptane	43	17.398	17.390	0.008	96	13954704	14.3	
76 Ethylbenzene	91	17.743	17.734	0.009	98	14609775	14.8	
77 2-Ethylthiophene	97	17.894	17.891	0.003	98	11415890	15.1	
78 m-Xylene & p-Xylene	91	18.018	18.011	0.007	98	23321274	29.7	
79 Bromoform	173	18.671	18.662	0.009	97	7790500	19.1	
80 Styrene	104	18.784	18.776	0.008	98	9208954	16.7	
81 n-Nonane	57	18.849	18.845	0.004	93	9739462	14.6	
82 o-Xylene	91	18.886	18.879	0.007	97	11913857	14.7	
83 1,1,2,2-Tetrachloroethane	83	19.426	19.422	0.004	99	9567653	15.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	19.695	19.688	0.007	96	2744920	14.6	
85 Isopropylbenzene	105	19.927	19.919	0.008	96	17891050	14.4	
86 N-Propylbenzene	120	20.898	20.891	0.007	98	5042282	14.9	
87 2-Chlorotoluene	126	20.919	20.915	0.004	93	4212857	14.4	
88 4-Ethyltoluene	105	21.189	21.182	0.007	98	19067307	14.9	
89 1,3,5-Trimethylbenzene	120	21.345	21.337	0.008	92	8662363	15.2	
90 Alpha Methyl Styrene	118	21.777	21.770	0.007	87	8219777	18.2	
91 n-Decane	57	22.057	22.050	0.007	88	13043205	14.2	
92 tert-Butylbenzene	119	22.154	22.149	0.005	89	16645407	15.0	
93 1,2,4-Trimethylbenzene	105	22.187	22.179	0.008	92	16052420	15.2	
94 1,3-Dichlorobenzene	146	22.666	22.660	0.006	98	10741126	15.1	
95 sec-Butylbenzene	105	22.715	22.710	0.005	97	23068168	14.7	
96 Benzyl chloride	91	22.839	22.831	0.008	98	15316291	17.7	
97 1,4-Dichlorobenzene	146	22.855	22.847	0.008	94	10985109	15.4	
98 4-Isopropyltoluene	119	23.087	23.081	0.006	95	20707754	15.4	
99 1,2,3-Trimethylbenzene	105	23.141	23.134	0.007	99	14521699	15.3	
100 Butylcyclohexane	83	23.335	23.327	0.008	91	12760868	15.1	
101 1,2-Dichlorobenzene	146	23.605	23.598	0.007	95	10345234	15.1	
102 2,3-Dihydroindene	117	23.632	23.625	0.007	90	14575794	15.2	
103 Indene	116	23.901	23.898	0.003	89	15838377	16.8	
104 n-Butylbenzene	91	24.036	24.031	0.005	98	19007349	15.2	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.899	24.892	0.007	97	19298881	15.3	
106 Undecane	57	24.953	24.950	0.003	95	15019730	15.0	
107 1,2,4,5-Tetramethylbenzene	119	25.821	25.814	0.007	97	19977929	15.2	
108 1,2,3,5-Tetramethylbenzene	119	25.945	25.942	0.003	95	12528997	15.2	
109 1,2,3,4-Tetramethylbenzene	119	26.840	26.837	0.003	97	16552608	15.0	
110 Dodecane	57	27.455	27.451	0.004	96	13988502	14.6	
111 1,2,4-Trichlorobenzene	180	27.530	27.524	0.006	91	9042073	15.7	
112 Naphthalene	128	27.762	27.760	0.002	98	19269667	15.1	
113 Benzo(b)thiophene	134	27.956	27.953	0.003	99	15671829	15.6	
114 Hexachlorobutadiene	225	28.296	28.296	0.0	85	8391233	15.5	
115 1,2,3-Trichlorobenzene	180	28.334	28.333	0.001	90	8365157	15.3	
116 2-Methylnaphthalene	142	29.811	29.812	-0.001	100	9847978	101.9	
117 1-Methylnaphthalene	142	30.124	30.124	0.0	100	7720465	95.2	
A 118 C6 Range	1	7.821	7.730 -	7.913	0	40834449	17.8	
A 119 Toluene Range	1	14.265	14.200 -	14.362	0	29802249	10.0	
A 120 C8 Range	1	15.344	15.274 -	15.414	0	62527603	13.6	
S 124 Xylenes, Total	100				0		44.4	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D

Injection Date: 22-Jan-2014 00:00:30

Instrument ID: MR

Operator ID: 403648

Lims ID: IC L9

Lab Sample ID:

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

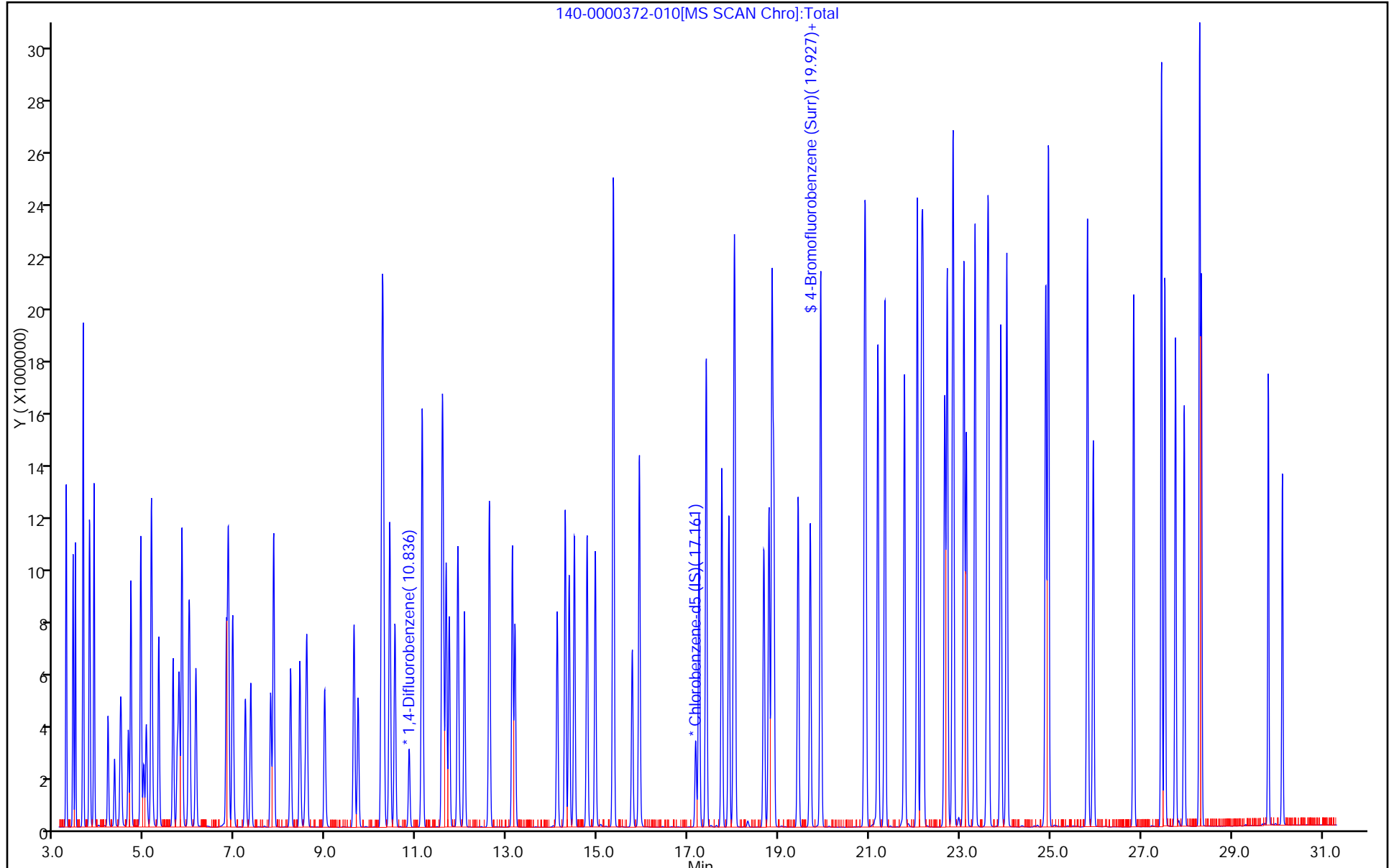
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D

Injection Date: 22-Jan-2014 00:00:30

Instrument ID: MR

Lims ID: IC L9

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

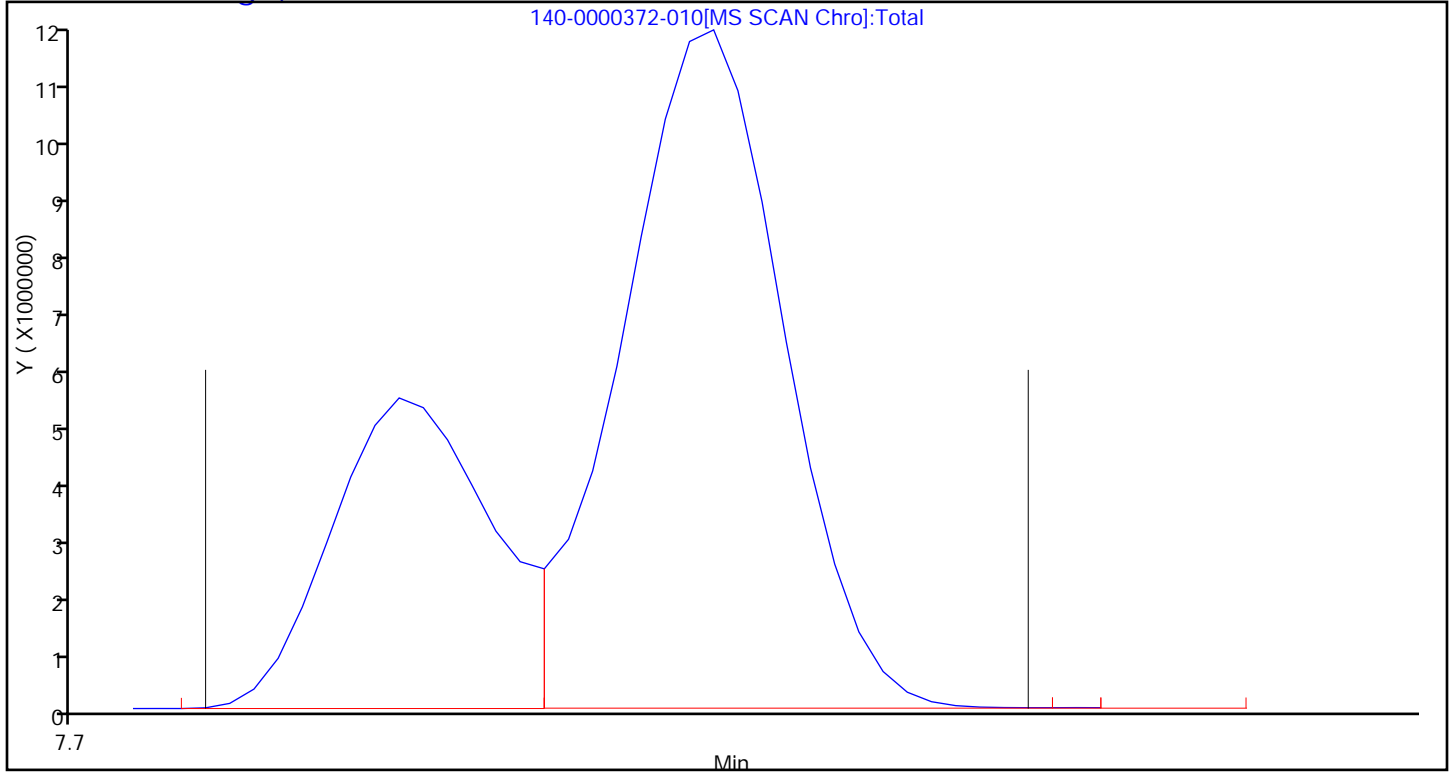
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D

Injection Date: 22-Jan-2014 00:00:30

Instrument ID: MR

Lims ID: IC L9

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

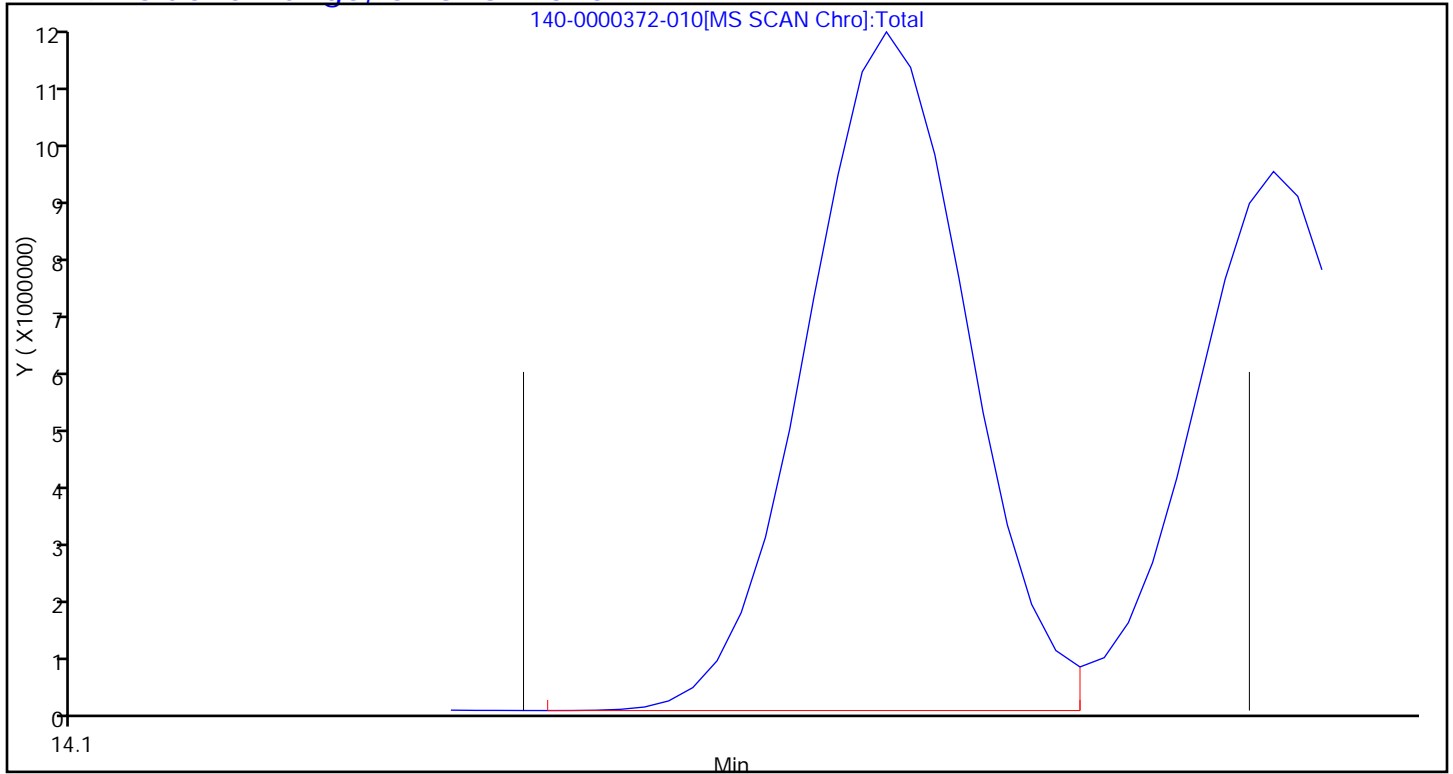
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 119 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D

Injection Date: 22-Jan-2014 00:00:30

Instrument ID: MR

Lims ID: IC L9

Lab Sample ID:

Client ID:

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

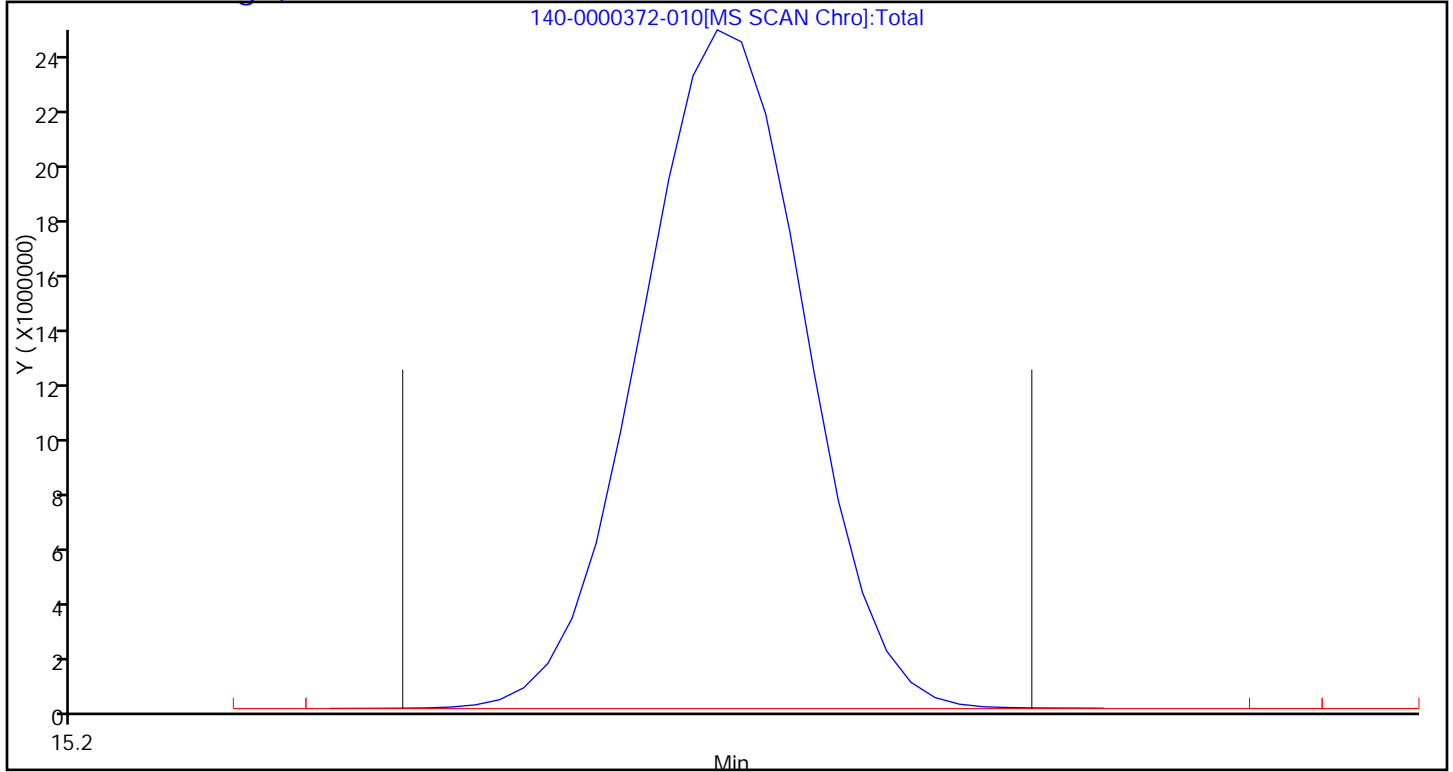
Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 120 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.3927		1.90	2.00	-4.9	35.0
Propene	Ave	1.227	1.098		1.79	2.00	-10.4	35.0
Dichlorodifluoromethane	Ave	3.962	3.635		1.83	2.00	-8.3	35.0
Chloromethane	Ave	0.4501	0.4065		1.81	2.00	-9.7	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.017		2.02	2.00	0.9	35.0
Acetaldehyde	Ave	0.3947	0.3532		8.95	10.0	-10.5	80.0
Vinyl chloride	Ave	1.483	1.396		1.88	2.00	-5.9	35.0
1,3-Butadiene	Ave	1.030	1.004		1.95	2.00	-2.6	35.0
Butane	Ave	2.110	1.870		1.77	2.00	-11.4	35.0
Bromomethane	Ave	1.508	1.386		1.84	2.00	-8.1	35.0
Chloroethane	Ave	0.6822	0.6020		1.76	2.00	-11.8	35.0
Ethanol	Ave	0.3211	0.2779		8.65	10.0	-13.5	80.0
Vinyl bromide	Ave	1.283	1.299		2.03	2.00	1.3	35.0
2-Methylbutane	Ave	1.699	1.599		1.88	2.00	-5.9	35.0
Acrolein	Ave	0.3266	0.2252		1.38	2.00	-31.0	35.0
Trichlorofluoromethane	Ave	3.481	3.332		1.91	2.00	-4.3	35.0
Acetonitrile	Ave	0.3607	0.3021		1.68	2.00	-16.2	35.0
Acetone	Ave	0.5686	0.4096		1.44	2.00	-28.0	35.0
Isopropyl alcohol	Ave	1.501	1.466		1.95	2.00	-2.4	35.0
Pentane	Ave	0.2152	0.2069		1.92	2.00	-3.9	35.0
Ethyl ether	Ave	1.047	0.8811		1.68	2.00	-15.8	35.0
1,1-Dichloroethene	Ave	1.123	1.253		2.23	2.00	11.6	35.0
tert-Butyl alcohol	Ave	1.849	1.758		1.90	2.00	-5.0	35.0
Acrylonitrile	Ave	0.5945	0.5425		1.83	2.00	-8.7	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.678		2.22	2.00	11.1	35.0
Methylene Chloride	Ave	1.070	1.161		2.17	2.00	8.5	35.0
3-Chloropropene	Ave	1.113	1.032		1.86	2.00	-7.2	35.0
Carbon disulfide	Ave	3.763	3.823		2.03	2.00	1.6	35.0
trans-1,2-Dichloroethene	Ave	1.353	1.283		1.90	2.00	-5.1	35.0
2-Methylpentane	Ave	3.087	2.996		1.94	2.00	-2.9	80.0
Methyl tert-butyl ether	Ave	2.042	1.840		1.80	2.00	-9.9	35.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	35.0
Vinyl acetate	Ave	1.849	1.657		1.79	2.00	-10.4	35.0
2-Butanone (MEK)	Ave	0.3786	0.3381		1.79	2.00	-10.7	35.0
Hexane	Ave	1.075	0.9854		1.83	2.00	-8.4	35.0
cis-1,2-Dichloroethene	Ave	1.155	1.171		2.03	2.00	1.4	35.0
Ethyl acetate	Ave	1.649	1.508		1.83	2.00	-8.6	35.0
Chloroform	Ave	2.331	2.280		1.96	2.00	-2.2	35.0
Tetrahydrofuran	Ave	0.9265	0.8140		1.76	2.00	-12.1	35.0
1,1,1-Trichloroethane	Ave	2.429	2.357		1.94	2.00	-3.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3053		1.97	2.00	-1.6	35.0
1-Butanol	Ave	0.0874	0.0831		1.90	2.00	-5.0	35.0
Benzene	Ave	0.6863	0.6700		1.95	2.00	-2.4	35.0
Cyclohexane	Ave	0.1354	0.1273		1.88	2.00	-6.0	35.0
Carbon tetrachloride	Ave	0.5669	0.5577		1.97	2.00	-1.6	35.0
2,3-Dimethylpentane	Ave	0.1619	0.1476		1.82	2.00	-8.9	80.0
Thiophene	Ave	0.4238	0.3980		1.88	2.00	-6.1	80.0
2,2,4-Trimethylpentane	Ave	1.172	1.096		1.87	2.00	-6.5	35.0
Heptane	Ave	0.2427	0.2273		1.87	2.00	-6.4	35.0
1,2-Dichloropropane	Ave	0.2320	0.2086		1.80	2.00	-10.1	35.0
Trichloroethene	Ave	0.3329	0.3084		1.85	2.00	-7.4	35.0
Dibromomethane	Ave	0.3053	0.2742		1.80	2.00	-10.2	35.0
Bromodichloromethane	Ave	0.4844	0.4604		1.90	2.00	-5.0	35.0
1,4-Dioxane	Ave	0.0831	0.0721		1.73	2.00	-13.3	35.0
Methyl methacrylate	Ave	0.2081	0.1844		1.77	2.00	-11.4	35.0
Methylcyclohexane	Ave	0.4620	0.4153		1.80	2.00	-10.1	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3620		1.73	2.00	-13.7	35.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2994		1.82	2.00	-9.0	35.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2916		1.76	2.00	-12.0	35.0
Toluene	Ave	0.7420	0.6560		1.77	2.00	-11.6	35.0
1,1,2-Trichloroethane	Ave	0.2352	0.2032		1.73	2.00	-13.6	35.0
2-Methylthiophene	Ave	0.6668	0.5885		1.76	2.00	-11.8	80.0
3-Methylthiophene	Ave	0.6690	0.5758		1.72	2.00	-13.9	80.0
2-Hexanone	Ave	0.2430	0.2176		1.79	2.00	-10.5	35.0
Octane	Ave	0.2723	0.2524		1.85	2.00	-7.3	35.0
Dibromochloromethane	Ave	0.5191	0.4880		1.88	2.00	-6.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3491		1.73	2.00	-13.4	35.0
Tetrachloroethene	Ave	0.3457	0.3028		1.75	2.00	-12.4	35.0
Chlorobenzene	Ave	0.6339	0.5280		1.67	2.00	-16.7	35.0
2,3-Dimethylheptane	Ave	0.8171	0.8009		1.96	2.00	-2.0	80.0
Ethylbenzene	Ave	0.8196	0.7195		1.76	2.00	-12.2	35.0
2-Ethylthiophene	Ave	0.6423	0.5532		1.72	2.00	-13.9	80.0
m-Xylene & p-Xylene	Ave	0.6614	0.5572		3.37	4.00	-15.7	35.0
Nonane	Ave	0.5146	0.4621		1.80	2.00	-10.2	35.0
Bromoform	Ave	0.4101	0.3532		1.72	2.00	-13.9	35.0
Styrene	Ave	0.4542	0.4097		1.80	2.00	-9.8	35.0
o-Xylene	Ave	0.6705	0.5779		1.72	2.00	-13.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4775		1.74	2.00	-12.8	35.0
1,2,3-Trichloropropane	Ave	0.1314	0.1129		1.72	2.00	-14.1	35.0
Isopropylbenzene	Ave	0.9553	0.8094		1.69	2.00	-15.3	35.0
Propylbenzene	Ave	0.2519	0.2135		1.70	2.00	-15.2	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2127		1.62	2.00	-19.1	35.0
4-Ethyltoluene	Ave	0.8909	0.7838		1.76	2.00	-12.0	35.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3817		1.70	2.00	-14.8	35.0
Alpha Methyl Styrene	Ave	0.3209	0.2911		1.81	2.00	-9.3	35.0
Decane	Ave	0.5485	0.4798		1.75	2.00	-12.5	35.0
tert-Butylbenzene	Ave	0.8748	0.7380		1.69	2.00	-15.6	35.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6716		1.73	2.00	-13.6	35.0
sec-Butylbenzene	Ave	1.140	0.9809		1.72	2.00	-14.0	35.0
1,3-Dichlorobenzene	Ave	0.5106	0.3857		1.51	2.00	-24.5	35.0
Benzyl chloride	Ave	0.5802	0.4785		1.65	2.00	-17.5	35.0
1,4-Dichlorobenzene	Ave	0.4752	0.3601		1.52	2.00	-24.2	35.0
4-Isopropyltoluene	Ave	0.9141	0.7905		1.73	2.00	-13.5	35.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5684		1.80	2.00	-10.2	80.0
Butylcyclohexane	Ave	0.7225	0.6145		1.70	2.00	-14.9	80.0
Indane	Ave	0.7098	0.6057		1.71	2.00	-14.7	80.0
1,2-Dichlorobenzene	Ave	0.4994	0.3813		1.53	2.00	-23.6	35.0
Butylbenzene	Ave	0.8482	0.6995		1.65	2.00	-17.5	35.0
Indene	Ave	0.6202	0.5555		1.79	2.00	-10.4	80.0
Undecane	Ave	0.5525	0.4806		1.74	2.00	-13.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7156		1.67	2.00	-16.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7687		1.79	2.00	-10.7	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4782		1.70	2.00	-14.9	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.6065		1.74	2.00	-12.9	80.0
Dodecane	Ave	0.5721	0.5050		1.77	2.00	-11.7	35.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1874		1.69	2.00	-15.7	35.0
Naphthalene	Ave	0.6294	0.5313		1.69	2.00	-15.6	35.0
Benzo (b) thiophene	Ave	0.4265	0.3579		1.68	2.00	-16.1	80.0
Hexachlorobutadiene	Ave	0.4540	0.3272		1.44	2.00	-27.9	35.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2381		1.66	2.00	-17.1	35.0
2-Methylnaphthalene	Ave	0.0669	0.0445		8.32	12.5	-33.5	80.0
1-Methylnaphthalene	Ave	0.0690	0.0474		8.59	12.5	-31.3	80.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7141		4.04	4.00	0.9	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D
 Lims ID: ICV Lab Sample ID: ICV 140-949/14-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Mar-2014 23:33:30 ALS Bottle#: 1 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: LCS/ICV,,3,,
 Misc. Info.: J031114I,TO15,,140-0000516-014
 Operator ID: 7126 Instrument ID: MJ
 Sublist:

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 12-Mar-2014 06:59:31

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	326764	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	93	1541489	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1315171	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	89	939102	4.04	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	64162	1.90	
7 Propene	41	3.968	3.973	-0.005	99	179454	1.79	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	593826	1.83	
9 Chloromethane	52	4.226	4.230	-0.004	98	66411	1.81	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	492863	2.02	
11 Acetaldehyde	44	4.393	4.398	-0.005	98	288501	8.95	
12 Vinyl chloride	62	4.414	4.419	-0.005	99	228060	1.88	
14 Butadiene	54	4.511	4.517	-0.006	92	164047	1.95	
13 Butane	43	4.517	4.517	0.0	89	305448	1.77	
15 Bromomethane	94	4.866	4.871	-0.005	99	226405	1.84	
16 Chloroethane	64	5.022	5.027	-0.005	99	98352	1.76	
17 Ethanol	31	5.114	5.122	-0.008	94	227027	8.65	
18 Vinyl bromide	106	5.350	5.357	-0.007	97	212311	2.03	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	261226	1.88	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	98	544405	1.91	
21 Acrolein	56	5.641	5.650	-0.009	27	36793	1.38	
22 Acetonitrile	40	5.711	5.720	-0.009	100	49356	1.68	
23 Acetone	58	5.770	5.776	-0.006	84	66917	1.44	
24 Isopropyl alcohol	45	5.845	5.858	-0.013	97	239534	1.95	
25 Pentane	72	5.883	5.884	-0.001	97	33800	1.92	
26 Ethyl ether	31	6.050	6.059	-0.009	93	143950	1.68	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	97	204737	2.23	
28 2-Methyl-2-propanol	59	6.469	6.487	-0.018	94	287155	1.90	
29 Acrylonitrile	53	6.491	6.498	-0.007	94	88630	1.83	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	94	437601	2.22	
31 Methylene Chloride	84	6.760	6.759	0.001	95	189676	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	91	168678	1.86	
33 Carbon disulfide	76	6.937	6.942	-0.005	99	624567	2.03	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	98	209642	1.90	
35 2-Methylpentane	43	7.631	7.631	0.0	95	489470	1.94	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	300567	1.80	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	343423	1.99	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	270800	1.79	
39 2-Butanone (MEK)	72	8.600	8.601	-0.001	100	55244	1.79	
40 Hexane	56	8.643	8.642	0.001	90	160988	1.83	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	95	191302	2.03	
42 Ethyl acetate	43	9.224	9.229	-0.005	97	246331	1.83	
43 Chloroform	83	9.401	9.403	-0.002	88	372507	1.96	
44 Tetrahydrofuran	42	9.810	9.816	-0.006	94	132989	1.76	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	385014	1.94	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	95	235329	1.97	
47 n-Butanol	31	10.945	10.958	-0.013	87	64008	1.90	
48 Benzene	78	11.031	11.033	-0.002	97	516383	1.95	
49 Cyclohexane	69	11.042	11.040	0.002	92	98107	1.88	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	97	429830	1.97	
51 2,3-Dimethylpentane	71	11.144	11.148	-0.004	92	113738	1.82	
52 Thiophene	84	11.300	11.297	0.003	96	306757	1.88	
53 Isooctane	57	11.768	11.771	-0.003	98	844794	1.87	
54 n-Heptane	71	12.129	12.130	-0.001	93	175150	1.87	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	88	160801	1.80	
56 Trichloroethene	130	12.252	12.252	0.0	95	237727	1.85	
57 Dibromomethane	93	12.333	12.332	0.001	91	211308	1.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	354860	1.90	
58 1,4-Dioxane	88	12.478	12.483	-0.005	87	55564	1.73	
60 Methyl methacrylate	41	12.543	12.548	-0.005	91	142117	1.77	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	320093	1.80	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	278989	1.73	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	95	230781	1.82	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	99	191744	1.76	
65 Toluene	91	14.264	14.262	0.002	93	431398	1.77	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	133590	1.73	
67 2-Methylthiophene	97	14.415	14.413	0.002	98	386959	1.76	
68 3-Methylthiophene	97	14.608	14.612	-0.004	99	378623	1.72	
69 2-Hexanone	58	14.689	14.694	-0.005	93	143062	1.79	
70 n-Octane	85	14.926	14.928	-0.002	95	165974	1.85	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	320894	1.88	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	229585	1.73	
73 Tetrachloroethene	129	15.394	15.393	0.001	92	199104	1.75	
75 Chlorobenzene	112	16.255	16.256	-0.001	84	347218	1.67	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	95	526675	1.96	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	473153	1.76	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	97	363744	1.72	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	100	732866	3.37	
79 n-Nonane	57	17.099	17.098	0.001	93	303879	1.80	
81 Bromoform	173	17.148	17.149	-0.001	93	232231	1.72	
80 Styrene	104	17.158	17.157	0.001	98	269410	1.80	
82 o-Xylene	91	17.218	17.220	-0.002	99	380024	1.72	
83 1,1,2,2-Tetrachloroethane	83	17.530	17.534	-0.004	99	313972	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	74208	1.72	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	532274	1.69	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	140408	1.70	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	139891	1.62	
88 4-Ethyltoluene	105	18.455	18.454	0.001	98	515426	1.76	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	92	251020	1.70	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	85	191429	1.81	
91 n-Decane	57	18.788	18.793	-0.005	89	315493	1.75	
92 tert-Butylbenzene	119	18.934	18.937	-0.003	87	485314	1.69	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	92	441617	1.73	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	645034	1.72	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	253635	1.51	
96 Benzyl chloride	91	19.283	19.288	-0.005	98	314626	1.65	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	93	236806	1.52	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	519786	1.73	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	373764	1.80	
100 Butylcyclohexane	83	19.461	19.460	0.001	93	404088	1.70	
101 2,3-Dihydroindene	117	19.649	19.653	-0.004	89	398305	1.71	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	79	250746	1.53	
103 n-Butylbenzene	91	19.773	19.777	-0.004	96	459993	1.65	
104 Indene	116	19.778	19.781	-0.003	86	365312	1.79	
105 Undecane	57	20.069	20.068	0.001	96	316015	1.74	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	97	470558	1.67	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	505503	1.79	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	314467	1.70	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	96	398813	1.74	
110 Dodecane	57	21.145	21.148	-0.003	94	332106	1.77	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	123214	1.69	
112 Naphthalene	128	21.526	21.527	-0.001	99	349347	1.69	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	235321	1.68	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	215146	1.44	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	156570	1.66	
116 2-Methylnaphthalene	142	22.446	22.449	-0.003	97	183079	8.32	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	194988	8.59	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	419583	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	370351	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	93	349396	NR	
A 118 C6 Range	1	8.633	8.553 -	8.736	0	1771274	1.86	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	1044079	1.76	
A 123 C8 Range	1	14.927	14.880 -	14.977	0	1637147	1.78	
S 124 Xylenes, Total	100				0		5.09	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCS11.D

Injection Date: 11-Mar-2014 23:33:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICV

Lab Sample ID: ICV 140-949/14-A

Worklist Smp#: 14

Client ID:

Purge Vol: 500.000 mL

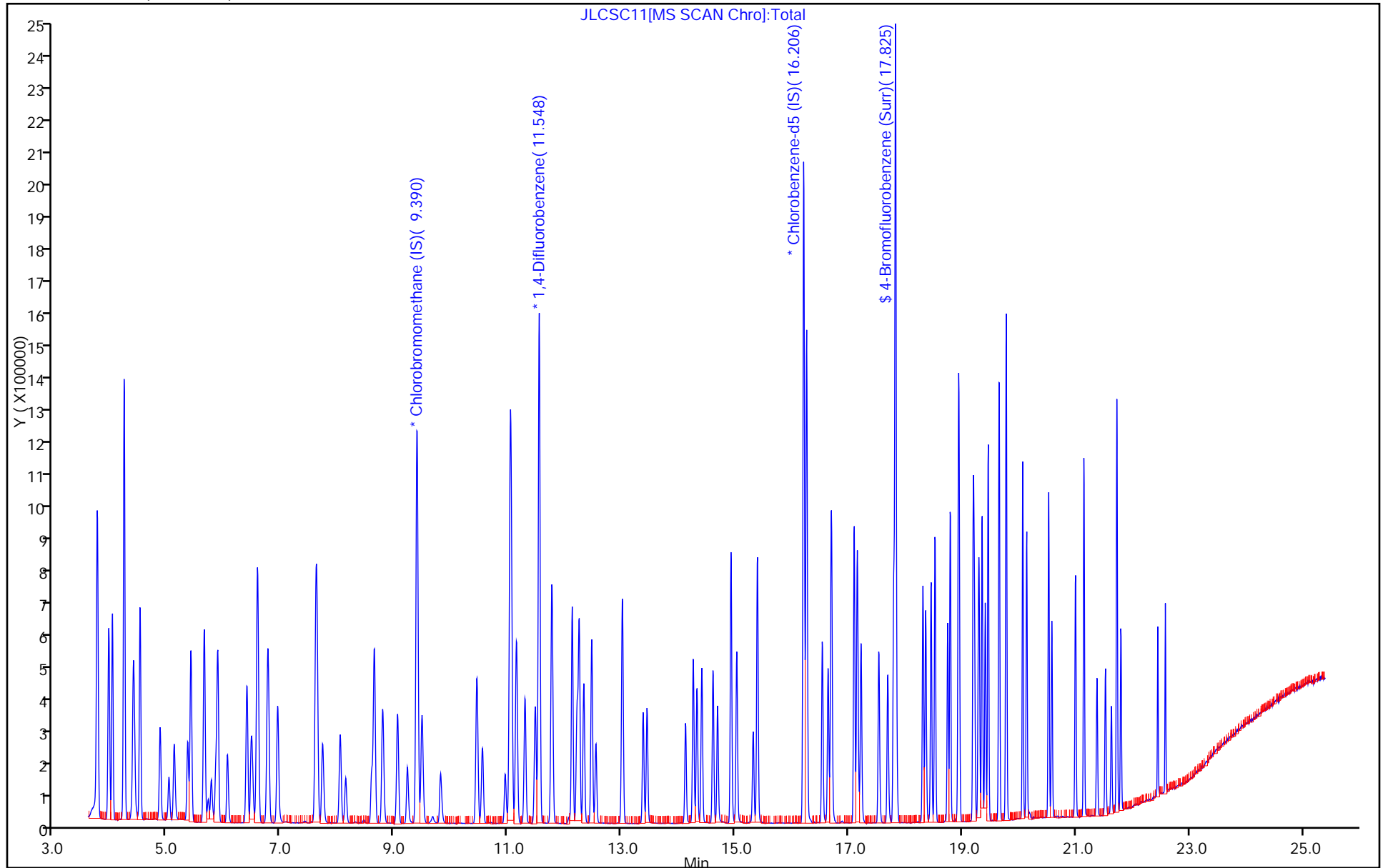
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4222		2.05	2.00	2.3	30.0
Propene	Ave	1.227	1.244		2.03	2.00	1.5	30.0
Dichlorodifluoromethane	Ave	3.962	4.275		2.16	2.00	7.9	30.0
Chloromethane	Ave	0.4501	0.4604		2.05	2.00	2.3	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.337		2.23	2.00	11.6	30.0
Acetaldehyde	Ave	0.3947	0.3297		8.36	10.0	-16.5	50.0
Vinyl chloride	Ave	1.483	1.517		2.05	2.00	2.3	30.0
1,3-Butadiene	Ave	1.030	1.078		2.09	2.00	4.7	30.0
Butane	Ave	2.110	2.093		1.98	2.00	-0.8	30.0
Bromomethane	Ave	1.508	1.488		1.97	2.00	-1.4	30.0
Chloroethane	Ave	0.6822	0.6600		1.94	2.00	-3.3	30.0
Ethanol	Ave	0.3211	0.3404		10.6	10.0	6.0	50.0
Vinyl bromide	Ave	1.283	1.387		2.16	2.00	8.2	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.1	30.0
Acrolein	Ave	0.3266	0.2674		1.64	2.00	-18.1	30.0
Trichlorofluoromethane	Ave	3.481	3.659		2.10	2.00	5.1	30.0
Acetonitrile	Ave	0.3607	0.3565		1.98	2.00	-1.2	30.0
Acetone	Ave	0.5686	0.4026		1.42	2.00	-29.2	30.0
Isopropyl alcohol	Ave	1.501	1.497		1.99	2.00	-0.3	30.0
Pentane	Ave	0.2152	0.2179		2.03	2.00	1.3	30.0
Ethyl ether	Ave	1.047	1.042		1.99	2.00	-0.4	30.0
1,1-Dichloroethene	Ave	1.123	1.330		2.37	2.00	18.4	30.0
tert-Butyl alcohol	Ave	1.849	1.642		1.78	2.00	-11.2	30.0
Acrylonitrile	Ave	0.5945	0.6174		2.08	2.00	3.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.822		2.34	2.00	17.0	30.0
Methylene Chloride	Ave	1.070	1.176		2.20	2.00	9.9	30.0
3-Chloropropene	Ave	1.113	1.001		1.80	2.00	-10.0	30.0
Carbon disulfide	Ave	3.763	3.881		2.06	2.00	3.1	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.328		1.96	2.00	-1.8	30.0
2-Methylpentane	Ave	3.087	3.005		1.95	2.00	-2.6	50.0
Methyl tert-butyl ether	Ave	2.042	2.307		2.26	2.00	13.0	30.0
1,1-Dichloroethane	Ave	2.111	2.162		2.05	2.00	2.4	30.0
Vinyl acetate	Ave	1.849	1.986		2.15	2.00	7.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.4062		2.15	2.00	7.3	30.0
Hexane	Ave	1.075	0.9887		1.84	2.00	-8.1	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.241		2.15	2.00	7.4	30.0
Ethyl acetate	Ave	1.649	1.877		2.28	2.00	13.8	30.0
Chloroform	Ave	2.331	2.385		2.05	2.00	2.3	30.0
Tetrahydrofuran	Ave	0.9265	1.020		2.20	2.00	10.1	30.0
1,1,1-Trichloroethane	Ave	2.429	2.476		2.04	2.00	1.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3255		2.10	2.00	4.9	30.0
1-Butanol	Ave	0.0874	0.0865		1.98	2.00	-1.1	30.0
Benzene	Ave	0.6863	0.6920		2.02	2.00	0.8	30.0
Cyclohexane	Ave	0.1354	0.1461		2.16	2.00	7.8	30.0
Carbon tetrachloride	Ave	0.5669	0.6096		2.15	2.00	7.5	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1697		2.10	2.00	4.8	50.0
Thiophene	Ave	0.4238	0.4460		2.11	2.00	5.2	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.250		2.13	2.00	6.7	30.0
Heptane	Ave	0.2427	0.2623		2.16	2.00	8.1	30.0
1,2-Dichloropropane	Ave	0.2320	0.2406		2.08	2.00	3.7	30.0
Trichloroethene	Ave	0.3329	0.3680		2.21	2.00	10.5	30.0
Dibromomethane	Ave	0.3053	0.3189		2.09	2.00	4.5	30.0
Bromodichloromethane	Ave	0.4844	0.5320		2.20	2.00	9.8	30.0
1,4-Dioxane	Ave	0.0831	0.0889		2.14	2.00	7.0	30.0
Methyl methacrylate	Ave	0.2081	0.2512		2.42	2.00	20.7	30.0
Methylcyclohexane	Ave	0.4620	0.4835		2.09	2.00	4.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.4682		2.23	2.00	11.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3401		2.07	2.00	3.3	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3731		2.25	2.00	12.6	30.0
Toluene	Ave	0.7420	0.8478		2.29	2.00	14.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2568		2.19	2.00	9.2	30.0
2-Methylthiophene	Ave	0.6668	0.7357		2.21	2.00	10.3	50.0
3-Methylthiophene	Ave	0.6690	0.7402		2.21	2.00	10.7	50.0
2-Hexanone	Ave	0.2430	0.2755		2.27	2.00	13.4	30.0
Octane	Ave	0.2723	0.3061		2.25	2.00	12.4	30.0
Dibromochloromethane	Ave	0.5191	0.5655		2.18	2.00	8.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4431		2.20	2.00	9.9	30.0
Tetrachloroethene	Ave	0.3457	0.3791		2.19	2.00	9.7	30.0
Chlorobenzene	Ave	0.6339	0.6726		2.12	2.00	6.1	30.0
2,3-Dimethylheptane	Ave	0.8171	0.8796		2.15	2.00	7.6	50.0
Ethylbenzene	Ave	0.8196	0.9888		2.41	2.00	20.6	30.0
2-Ethylthiophene	Ave	0.6423	0.7532		2.35	2.00	17.3	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.7687		4.65	4.00	16.2	30.0
Nonane	Ave	0.5146	0.5432		2.11	2.00	5.6	30.0
Bromoform	Ave	0.4101	0.4466		2.18	2.00	8.9	30.0
Styrene	Ave	0.4542	0.5438		2.40	2.00	19.7	30.0
o-Xylene	Ave	0.6705	0.7903		2.36	2.00	17.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.6453		2.36	2.00	17.8	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1571		2.39	2.00	19.6	30.0
Isopropylbenzene	Ave	0.9553	1.116		2.34	2.00	16.8	30.0
Propylbenzene	Ave	0.2519	0.2992		2.38	2.00	18.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-976/2 Calibration Date: 03/19/2014 11:06
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC19.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2919		2.22	2.00	11.0	30.0
4-Ethyltoluene	Ave	0.8909	1.083		2.43	2.00	21.6	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.5307		2.37	2.00	18.5	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3932		2.45	2.00	22.5	30.0
Decane	Ave	0.5485	0.6016		2.19	2.00	9.7	30.0
tert-Butylbenzene	Ave	0.8748	1.013		2.32	2.00	15.8	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.9230		2.38	2.00	18.8	30.0
sec-Butylbenzene	Ave	1.140	1.334		2.34	2.00	17.0	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.5303		2.08	2.00	3.9	30.0
Benzyl chloride	Ave	0.5802	0.6362		2.19	2.00	9.7	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4927		2.07	2.00	3.7	30.0
4-Isopropyltoluene	Ave	0.9141	1.062		2.32	2.00	16.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.7671		2.43	2.00	21.2	50.0
Butylcyclohexane	Ave	0.7225	0.7730		2.14	2.00	7.0	50.0
Indane	Ave	0.7098	0.8343		2.35	2.00	17.6	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.5200		2.08	2.00	4.1	30.0
Butylbenzene	Ave	0.8482	0.9271		2.19	2.00	9.3	30.0
Indene	Ave	0.6202	0.7485		2.42	2.00	20.7	50.0
Undecane	Ave	0.5525	0.6144		2.23	2.00	11.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.9348		2.18	2.00	9.1	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	1.014		2.36	2.00	17.7	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.6157		2.19	2.00	9.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7885		2.27	2.00	13.2	50.0
Dodecane	Ave	0.5721	0.6042		2.11	2.00	5.6	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2250		2.03	2.00	1.3	30.0
Naphthalene	Ave	0.6294	0.6433		2.05	2.00	2.2	30.0
Benzo (b) thiophene	Ave	0.4265	0.4204		1.97	2.00	-1.4	50.0
Hexachlorobutadiene	Ave	0.4540	0.4111		1.81	2.00	-9.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2837		1.98	2.00	-1.2	30.0
2-Methylnaphthalene	Ave	0.0669	0.0451		8.42	12.5	-32.6	50.0
1-Methylnaphthalene	Ave	0.0690	0.0482		8.73	12.5	-30.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.6922		3.91	4.00	-2.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 19-Mar-2014 11:06:30 ALS Bottle#: 9 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031914,TO15,,140-0000532-002
 Operator ID: 403648 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 17:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.385	0.0	91	344423	4.00	
* 2 1,4-Difluorobenzene	114	11.542	11.542	0.0	93	1458024	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.201	16.201	0.0	86	1214604	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.820	0.0	91	840735	3.91	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	72746	2.05	
7 Propene	41	3.973	3.973	0.0	99	214420	2.03	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	736627	2.16	
9 Chloromethane	52	4.231	4.231	0.0	98	79325	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	575045	2.23	
11 Acetaldehyde	44	4.398	4.398	0.0	99	284056	8.36	
12 Vinyl chloride	62	4.420	4.420	0.0	99	261396	2.05	
14 Butadiene	54	4.516	4.516	0.0	91	185801	2.09	
13 Butane	43	4.516	4.516	0.0	89	360613	1.98	
15 Bromomethane	94	4.871	4.871	0.0	99	256321	1.97	
16 Chloroethane	64	5.022	5.022	0.0	99	113716	1.94	
17 Ethanol	31	5.119	5.119	0.0	95	293298	10.6	
18 Vinyl bromide	106	5.356	5.356	0.0	97	239065	2.16	
19 2-Methylbutane	43	5.409	5.409	0.0	92	289633	1.98	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	98	630457	2.10	
21 Acrolein	56	5.646	5.646	0.0	24	46081	1.64	
22 Acetonitrile	40	5.716	5.716	0.0	99	61423	1.98	
23 Acetone	58	5.770	5.770	0.0	91	69368	1.42	
24 Isopropyl alcohol	45	5.850	5.850	0.0	97	257858	1.99	
25 Pentane	72	5.883	5.883	0.0	97	37549	2.03	
26 Ethyl ether	31	6.050	6.050	0.0	93	179592	1.99	
27 1,1-Dichloroethene	96	6.394	6.394	0.0	97	229123	2.37	
28 2-Methyl-2-propanol	59	6.475	6.475	0.0	95	282847	1.78	
29 Acrylonitrile	53	6.491	6.491	0.0	94	106371	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.582	0.0	95	486321	2.34	
31 Methylene Chloride	84	6.754	6.754	0.0	95	202657	2.20	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.776	0.0	92	172521	1.80	
33 Carbon disulfide	76	6.937	6.937	0.0	100	668634	2.06	
34 trans-1,2-Dichloroethene	96	7.604	7.604	0.0	99	228792	1.96	
35 2-Methylpentane	43	7.626	7.626	0.0	95	517789	1.95	
36 Methyl tert-butyl ether	73	7.728	7.728	0.0	96	397456	2.26	
37 1,1-Dichloroethane	63	8.035	8.035	0.0	100	372467	2.05	
38 Vinyl acetate	43	8.131	8.131	0.0	100	342229	2.15	
39 2-Butanone (MEK)	72	8.589	8.589	0.0	97	69988	2.15	
40 Hexane	56	8.637	8.637	0.0	90	170354	1.84	
41 cis-1,2-Dichloroethene	96	9.046	9.046	0.0	94	213783	2.15	
42 Ethyl acetate	43	9.218	9.218	0.0	97	323359	2.28	
43 Chloroform	83	9.396	9.396	0.0	97	411011	2.05	
44 Tetrahydrofuran	42	9.799	9.799	0.0	94	175791	2.20	
45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	96	426625	2.04	
46 1,2-Dichloroethane	62	10.536	10.536	0.0	95	237399	2.10	
47 n-Butanol	31	10.945	10.945	0.0	91	63087	1.98	
48 Benzene	78	11.026	11.026	0.0	96	504745	2.02	
49 Cyclohexane	69	11.031	11.031	0.0	90	106529	2.16	
50 Carbon tetrachloride	117	11.047	11.047	0.0	94	444605	2.15	
51 2,3-Dimethylpentane	71	11.139	11.139	0.0	92	123790	2.10	
52 Thiophene	84	11.289	11.289	0.0	96	325316	2.11	
53 Isooctane	57	11.763	11.763	0.0	98	911737	2.13	
54 n-Heptane	71	12.123	12.123	0.0	92	191345	2.16	
55 1,2-Dichloropropane	63	12.204	12.204	0.0	89	175480	2.08	
56 Trichloroethene	130	12.241	12.241	0.0	93	268386	2.21	
57 Dibromomethane	93	12.322	12.322	0.0	92	232580	2.09	
59 Dichlorobromomethane	83	12.462	12.462	0.0	99	388005	2.20	
58 1,4-Dioxane	88	12.467	12.467	0.0	87	64853	2.14	
60 Methyl methacrylate	41	12.537	12.537	0.0	91	183229	2.42	
61 Methylcyclohexane	83	13.005	13.005	0.0	96	352698	2.09	
62 4-Methyl-2-pentanone (MIBK)	43	13.371	13.371	0.0	98	341467	2.23	
63 cis-1,3-Dichloropropene	75	13.441	13.441	0.0	95	248049	2.07	
64 trans-1,3-Dichloropropene	75	14.119	14.119	0.0	99	226691	2.25	
65 Toluene	91	14.253	14.253	0.0	93	515114	2.29	
66 1,1,2-Trichloroethane	83	14.318	14.318	0.0	97	156049	2.19	
67 2-Methylthiophene	97	14.404	14.404	0.0	98	447018	2.21	
68 3-Methylthiophene	97	14.603	14.603	0.0	99	449786	2.21	
69 2-Hexanone	58	14.684	14.684	0.0	93	167394	2.27	
70 n-Octane	85	14.920	14.920	0.0	94	185975	2.25	
71 Chlorodibromomethane	129	15.022	15.022	0.0	96	343611	2.18	
72 Ethylene Dibromide	107	15.308	15.308	0.0	98	269243	2.20	
73 Tetrachloroethene	129	15.383	15.383	0.0	92	230370	2.19	
75 Chlorobenzene	112	16.249	16.249	0.0	92	408671	2.12	
74 2,3-Dimethylheptane	43	16.254	16.254	0.0	95	534471	2.15	
76 Ethylbenzene	91	16.529	16.529	0.0	98	600847	2.41	
77 2-Ethylthiophene	97	16.631	16.631	0.0	97	457666	2.35	
78 m-Xylene & p-Xylene	91	16.685	16.685	0.0	99	934156	4.65	
79 n-Nonane	57	17.088	17.088	0.0	93	330066	2.11	
81 Bromoform	173	17.142	17.142	0.0	94	271353	2.18	
80 Styrene	104	17.147	17.147	0.0	98	330409	2.40	
82 o-Xylene	91	17.212	17.212	0.0	96	480233	2.36	
83 1,1,2,2-Tetrachloroethane	83	17.524	17.524	0.0	99	392126	2.36	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.680	17.680	0.0	97	95453	2.39	
85 Isopropylbenzene	105	17.788	17.788	0.0	97	678172	2.34	
86 N-Propylbenzene	120	18.304	18.304	0.0	98	181789	2.38	
87 2-Chlorotoluene	126	18.352	18.352	0.0	97	177346	2.22	
88 4-Ethyltoluene	105	18.444	18.444	0.0	98	658282	2.43	
89 1,3,5-Trimethylbenzene	120	18.514	18.514	0.0	92	322460	2.37	
90 Alpha Methyl Styrene	118	18.740	18.740	0.0	85	238891	2.45	
91 n-Decane	57	18.783	18.783	0.0	89	365558	2.19	
92 tert-Butylbenzene	119	18.928	18.928	0.0	87	615274	2.32	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	94	560823	2.38	
94 sec-Butylbenzene	105	19.192	19.192	0.0	98	810809	2.34	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	322230	2.08	
96 Benzyl chloride	91	19.278	19.278	0.0	98	386598	2.19	
97 1,4-Dichlorobenzene	146	19.294	19.294	0.0	93	299344	2.07	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	645024	2.32	
99 1,2,3-Trimethylbenzene	105	19.401	19.401	0.0	98	466136	2.43	
100 Butylcyclohexane	83	19.455	19.455	0.0	93	469702	2.14	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	506967	2.35	
102 1,2-Dichlorobenzene	146	19.649	19.649	0.0	94	315972	2.08	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	563298	2.19	
104 Indene	116	19.773	19.773	0.0	86	454828	2.42	
105 Undecane	57	20.063	20.063	0.0	96	373317	2.23	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.133	20.133	0.0	97	567986	2.18	
108 1,2,4,5-Tetramethylbenzene	119	20.520	20.520	0.0	97	615899	2.36	
107 1,2,3,5-Tetramethylbenzene	119	20.574	20.574	0.0	95	374139	2.19	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	97	479119	2.27	
110 Dodecane	57	21.139	21.139	0.0	95	367147	2.11	
111 1,2,4-Trichlorobenzene	180	21.370	21.370	0.0	94	136711	2.03	
112 Naphthalene	128	21.521	21.521	0.0	99	390899	2.05	
113 Benzo(b)thiophene	134	21.623	21.623	0.0	99	255454	1.97	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	84	249776	1.81	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	95	172407	1.98	
116 2-Methylnaphthalene	142	22.441	22.441	0.0	99	171218	8.42	
117 1-Methylnaphthalene	142	22.575	22.575	0.0	96	182975	8.73	
139 Isopropyl ether	45	8.782	8.782	0.0	97	534408	NR	
142 Tert-butyl ethyl ether	59	9.476	9.476	0.0	96	472675	NR	
140 Tert-amyl methyl ether	73	11.467	11.467	0.0	93	444680	NR	
A 118 C6 Range	1	8.632	8.562 - 8.702		0	1680235	1.67	
A 122 Toluene Range	1	14.253	14.223 - 14.283		0	1227464	2.24	
A 123 C8 Range	1	14.921	14.877 - 14.985		0	1788334	2.10	
S 124 Xylenes, Total	100				0		7.01	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19.D

Injection Date: 19-Mar-2014 11:06:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

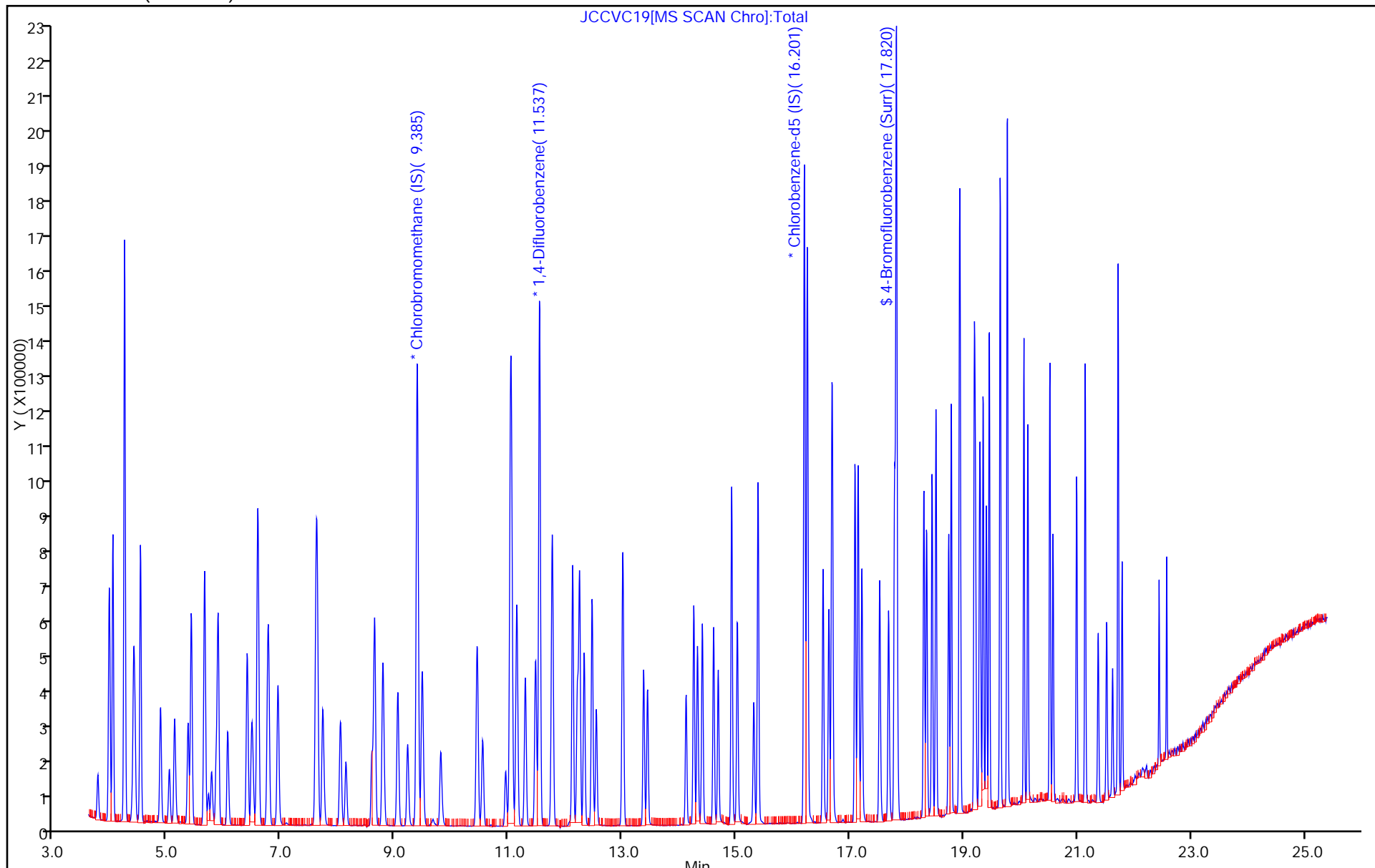
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: ICV 140-722/16 Calibration Date: 01/24/2014 11:35
 Instrument ID: MR Calib Start Date: 01/21/2014 17:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/22/2014 00:00
 Lab File ID: RICVA24a.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4302	0.4431		2.06	2.00	3.0	35.0
Propene	Ave	1.679	1.515		1.80	2.00	-9.8	35.0
Dichlorodifluoromethane	Ave	4.020	4.358		2.17	2.00	8.4	35.0
Chloromethane	Ave	0.5930	0.6228		2.10	2.00	5.0	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.879	3.024		2.10	2.00	5.0	35.0
Vinyl chloride	Ave	1.816	1.887		2.08	2.00	3.9	35.0
1,3-Butadiene	Ave	1.527	1.610		2.11	2.00	5.4	35.0
Butane	Ave	3.020	3.010		1.99	2.00	-0.3	35.0
Bromomethane	Ave	1.523	1.468		1.93	2.00	-3.6	35.0
Chloroethane	Ave	0.9180	0.9168		2.00	2.00	-0.1	35.0
Ethanol	Ave	0.6757	0.5849		8.65	10.0	-13.5	80.0
Vinyl bromide	Ave	1.471	1.583		2.15	2.00	7.6	35.0
2-Methylbutane	Ave	2.298	2.348		2.04	2.00	2.2	35.0
Acrolein	Ave	0.8185	0.6600		1.61	2.00	-19.4	35.0
Trichlorofluoromethane	Ave	3.966	4.046		2.04	2.00	2.0	35.0
Acetonitrile	Ave	0.7674	0.7356		1.92	2.00	-4.1	35.0
Isopropyl alcohol	Ave	3.097	2.650		1.71	2.00	-14.4	35.0
Pentane	Ave	0.3251	0.3221		1.98	2.00	-0.9	35.0
Ethyl ether	Ave	2.157	1.928		1.79	2.00	-10.6	35.0
1,1-Dichloroethene	Ave	1.280	1.516		2.37	2.00	18.5	35.0
Acrylonitrile	Ave	1.424	1.411		1.98	2.00	-0.9	35.0
tert-Butyl alcohol	Ave	3.154	2.981		1.89	2.00	-5.5	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.682	3.168		2.36	2.00	18.1	35.0
Methylene Chloride	Ave	1.255	1.395		2.22	2.00	11.1	35.0
3-Chloropropene	Ave	1.475	1.471		2.00	2.00	-0.2	35.0
Carbon disulfide	Ave	4.355	4.578		2.10	2.00	5.1	35.0
trans-1,2-Dichloroethene	Ave	1.578	1.577		2.00	2.00	-0.0	35.0
2-Methylpentane	Ave	4.422	4.524		2.05	2.00	2.3	80.0
Methyl tert-butyl ether	Ave	4.280	4.041		1.89	2.00	-5.6	35.0
1,1-Dichloroethane	Ave	2.838	3.074		2.17	2.00	8.3	35.0
Vinyl acetate	Ave	4.623	4.582		1.98	2.00	-0.9	35.0
2-Butanone (MEK)	Ave	0.9176	0.7002		1.53	2.00	-23.7	35.0
Hexane	Ave	1.578	1.569		1.99	2.00	-0.6	35.0
cis-1,2-Dichloroethene	Ave	1.459	1.612		2.21	2.00	10.5	35.0
Ethyl acetate	Ave	4.202	3.884		1.85	2.00	-7.6	35.0
Chloroform	Ave	2.977	3.200		2.15	2.00	7.5	35.0
Tetrahydrofuran	Ave	2.285	2.084		1.82	2.00	-8.8	35.0
1,1,1-Trichloroethane	Ave	2.906	3.158		2.17	2.00	8.7	35.0
1,2-Dichloroethane	Ave	0.4407	0.4697		2.13	2.00	6.6	35.0
1-Butanol	Ave	0.1284	0.1144		1.78	2.00	-10.9	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: ICV 140-722/16 Calibration Date: 01/24/2014 11:35
 Instrument ID: MR Calib Start Date: 01/21/2014 17:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/22/2014 00:00
 Lab File ID: RICVA24a.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	0.8820	0.9245		2.10	2.00	4.8	35.0
Cyclohexane	Ave	0.1490	0.1472		1.98	2.00	-1.2	35.0
Carbon tetrachloride	Ave	0.5896	0.6422		2.18	2.00	8.9	35.0
2,3-Dimethylpentane	Ave	0.1919	0.1975		2.06	2.00	2.9	80.0
Thiophene	Ave	0.5288	0.5486		2.07	2.00	3.7	80.0
2,2,4-Trimethylpentane	Ave	1.796	1.772		1.97	2.00	-1.3	35.0
Heptane	Ave	0.3372	0.3280		1.95	2.00	-2.7	35.0
1,2-Dichloropropane	Ave	0.3592	0.3655		2.03	2.00	1.7	35.0
Trichloroethene	Ave	0.3777	0.3966		2.10	2.00	5.0	35.0
Dibromomethane	Ave	0.3465	0.3431		1.98	2.00	-1.0	35.0
Bromodichloromethane	Ave	0.6274	0.6475		2.06	2.00	3.2	35.0
1,4-Dioxane	Ave	0.1387	0.1253		1.81	2.00	-9.7	35.0
Methyl methacrylate	Ave	0.5194	0.4705		1.81	2.00	-9.4	35.0
Methylcyclohexane	Ave	0.5440	0.5503		2.02	2.00	1.2	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9289	0.8474		1.82	2.00	-8.8	35.0
cis-1,3-Dichloropropene	Ave	0.4775	0.4905		2.05	2.00	2.7	35.0
trans-1,3-Dichloropropene	Ave	0.5692	0.6034		2.12	2.00	6.0	35.0
Toluene	Ave	1.238	1.277		2.06	2.00	3.1	35.0
1,1,2-Trichloroethane	Ave	0.3635	0.3594		1.98	2.00	-1.1	35.0
2-Methylthiophene	Ave	1.053	1.092		2.07	2.00	3.7	80.0
3-Methylthiophene	Ave	1.074	1.108		2.06	2.00	3.2	80.0
2-Hexanone	Ave	0.5179	0.5195		2.01	2.00	0.3	35.0
Dibromochloromethane	Ave	0.6672	0.6964		2.09	2.00	4.4	35.0
Octane	Ave	0.4467	0.4141		1.85	2.00	-7.3	35.0
1,2-Dibromoethane (EDB)	Ave	0.6400	0.6596		2.06	2.00	3.1	35.0
Tetrachloroethene	Ave	0.4233	0.4357		2.06	2.00	2.9	35.0
Chlorobenzene	Ave	0.9899	0.9702		1.96	2.00	-2.0	35.0
2,3-Dimethylheptane	Ave	1.525	1.461		1.92	2.00	-4.2	80.0
Ethylbenzene	Ave	1.542	1.549		2.01	2.00	0.5	35.0
2-Ethylthiophene	Ave	1.174	1.175		2.00	2.00	0.1	80.0
m-Xylene & p-Xylene	Ave	1.224	1.222		3.99	4.00	-0.2	35.0
Bromoform	Ave	0.6350	0.6512		2.05	2.00	2.6	35.0
Styrene	Ave	0.8614	0.9220		2.14	2.00	7.0	35.0
Nonane	Ave	1.040	0.9594		1.84	2.00	-7.8	35.0
o-Xylene	Ave	1.263	1.238		1.96	2.00	-2.0	35.0
1,1,2,2-Tetrachloroethane	Ave	0.9511	0.9406		1.98	2.00	-1.1	35.0
1,2,3-Trichloropropane	Ave	0.2927	0.2805		1.92	2.00	-4.2	35.0
Isopropylbenzene	Ave	1.940	1.803		1.86	2.00	-7.1	35.0
Propylbenzene	Ave	0.5279	0.4956		1.88	2.00	-6.1	35.0
2-Chlorotoluene	Ave	0.4547	0.4426		1.95	2.00	-2.7	35.0
4-Ethyltoluene	Ave	1.990	1.870		1.88	2.00	-6.1	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: ICV 140-722/16 Calibration Date: 01/24/2014 11:35
 Instrument ID: MR Calib Start Date: 01/21/2014 17:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/22/2014 00:00
 Lab File ID: RICVA24a.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	0.8857	0.8563		1.93	2.00	-3.3	35.0
Alpha Methyl Styrene	Ave	0.7049	0.6933		1.97	2.00	-1.7	35.0
Decane	Ave	1.432	1.268		1.77	2.00	-11.4	35.0
tert-Butylbenzene	Ave	1.724	1.616		1.87	2.00	-6.3	35.0
1,2,4-Trimethylbenzene	Ave	1.643	1.566		1.91	2.00	-4.7	35.0
1,3-Dichlorobenzene	Ave	1.105	1.025		1.86	2.00	-7.2	35.0
sec-Butylbenzene	Ave	2.451	2.295		1.87	2.00	-6.4	35.0
Benzyl chloride	Ave	1.346	1.402		2.08	2.00	4.2	35.0
1,4-Dichlorobenzene	Ave	1.113	1.045		1.88	2.00	-6.2	35.0
4-Isopropyltoluene	Ave	2.097	2.021		1.93	2.00	-3.6	35.0
1,2,3-Trimethylbenzene	Ave	1.480	1.434		1.94	2.00	-3.1	80.0
Butylcyclohexane	Ave	1.320	1.265		1.92	2.00	-4.2	80.0
1,2-Dichlorobenzene	Ave	1.067	0.9818		1.84	2.00	-8.0	35.0
Indane	Ave	1.492	1.409		1.89	2.00	-5.6	80.0
Indene	Ave	1.466	1.434		1.96	2.00	-2.2	80.0
Butylbenzene	Ave	1.948	1.873		1.92	2.00	-3.8	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.968	1.896		1.93	2.00	-3.7	80.0
Undecane	Ave	1.560	1.534		1.97	2.00	-1.7	35.0
1,2,4,5-Tetramethylbenzene	Ave	2.053	1.987		1.94	2.00	-3.2	80.0
1,2,3,5-Tetramethylbenzene	Ave	1.287	1.250		1.94	2.00	-2.9	80.0
1,2,3,4-Tetramethylbenzene	Ave	1.717	1.657		1.93	2.00	-3.5	80.0
Dodecane	Ave	1.492	1.422		1.91	2.00	-4.7	35.0
1,2,4-Trichlorobenzene	Ave	0.8981	0.8174		1.82	2.00	-9.0	35.0
Naphthalene	Ave	1.984	1.902		1.92	2.00	-4.1	35.0
Benzo (b) thiophene	Ave	1.566	1.458		1.86	2.00	-6.9	80.0
Hexachlorobutadiene	Ave	0.8457	0.7276		1.72	2.00	-14.0	35.0
1,2,3-Trichlorobenzene	Ave	0.8521	0.7922		1.86	2.00	-7.0	35.0
2-Methylnaphthalene	Ave	0.1506	0.1515		12.6	12.5	0.6	80.0
1-Methylnaphthalene	Ave	0.1263	0.1345		13.3	12.5	6.5	80.0
Acetaldehyde	Ave	1.828				10.0		80.0
Acetone	Ave	5.059				2.00		35.0
4-Bromofluorobenzene (Surr)	Ave	0.7880	0.8215		4.17	4.00	4.2	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\RICVA24a.D
 Lims ID: icv with extra Lab Sample ID: ICV 140-724/16-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 24-Jan-2014 11:35:30 ALS Bottle#: 7 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: R012414,TO15,140-0000382-003 =R012414,TO15,140-0000382-003
 Operator ID: 7126 Instrument ID: MR
 Sublist:

Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Jan-2014 13:49:11 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: barlozhetskayaa

Date: 24-Jan-2014 14:04:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.522	8.527	-0.005	96	477903	4.00	
* 2 1,4-Difluorobenzene	114	10.820	10.819	0.001	96	2450029	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.172	17.156	0.016	88	2027022	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.938	19.925	0.013	90	1665093	4.17	
6 Chlorodifluoromethane	67	3.410	3.407	0.003	96	105888	2.06	
7 Propene	41	3.416	3.417	-0.001	98	361897	1.80	
8 Dichlorodifluoromethane	85	3.464	3.461	0.003	100	1041313	2.17	
9 Chloromethane	52	3.626	3.622	0.004	99	148829	2.10	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.637	3.634	0.003	93	722542	2.10	
12 Vinyl chloride	62	3.788	3.784	0.004	98	450855	2.08	
14 Butadiene	54	3.874	3.871	0.003	97	384601	2.11	
13 Butane	43	3.874	3.872	0.002	87	719250	1.99	
15 Bromomethane	94	4.182	4.178	0.004	99	350865	1.93	
16 Chloroethane	64	4.316	4.319	-0.003	99	219066	2.00	
17 Ethanol	31	4.435	4.437	-0.002	91	698751	8.65	
18 Vinyl bromide	106	4.618	4.621	-0.003	99	378167	2.15	
19 2-Methylbutane	43	4.683	4.682	0.001	93	561021	2.04	
21 Acrolein	56	4.893	4.893	0.0	94	157714	1.61	
20 Trichlorofluoromethane	101	4.899	4.898	0.001	99	966822	2.04	
22 Acetonitrile	40	4.953	4.955	-0.002	100	175779	1.92	
24 Pentane	72	5.131	5.131	0.0	97	76975	1.98	
25 Isopropyl alcohol	45	5.125	5.132	-0.007	74	633316	1.71	
26 Ethyl ether	31	5.292	5.298	-0.006	94	460701	1.79	
27 1,1-Dichloroethene	96	5.605	5.610	-0.005	95	362280	2.37	
28 Acrylonitrile	53	5.697	5.699	-0.002	95	337053	1.98	
29 2-Methyl-2-propanol	59	5.724	5.736	-0.012	92	712296	1.89	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.805	5.805	0.0	96	756942	2.36	
31 Methylene Chloride	84	5.945	5.951	-0.006	94	333377	2.22	
32 3-Chloro-1-propene	39	5.972	5.972	0.0	92	351505	2.00	
33 Carbon disulfide	76	6.112	6.114	-0.002	100	1093912	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
34 trans-1,2-Dichloroethene	96	6.781	6.784	-0.003	95	376853	2.00	
35 2-Methylpentane	43	6.824	6.828	-0.004	96	1080914	2.05	
36 Methyl tert-butyl ether	73	6.926	6.935	-0.009	96	965572	1.89	
37 1,1-Dichloroethane	63	7.196	7.199	-0.003	99	734608	2.17	
38 Vinyl acetate	43	7.314	7.320	-0.006	100	1094768	1.98	
39 2-Butanone (MEK)	72	7.757	7.763	-0.006	98	167309	1.53	
40 Hexane	56	7.827	7.830	-0.003	88	374894	1.99	
41 cis-1,2-Dichloroethene	96	8.193	8.201	-0.008	97	385308	2.21	
42 Ethyl acetate	43	8.404	8.410	-0.006	98	928107	1.85	
43 Chloroform	83	8.555	8.555	0.0	95	764594	2.15	
44 Tetrahydrofuran	42	8.959	8.967	-0.008	94	497900	1.82	
45 1,1,1-Trichloroethane	97	9.601	9.603	-0.002	88	754661	2.17	
46 1,2-Dichloroethane	62	9.693	9.691	0.002	95	575434	2.13	
49 n-Butanol	31	10.199	10.210	-0.011	60	140107	1.78	
47 Benzene	78	10.221	10.220	0.001	97	1132525	2.10	
48 Cyclohexane	69	10.237	10.239	-0.002	93	180269	1.98	
50 Carbon tetrachloride	117	10.253	10.255	-0.002	94	786699	2.18	
51 2,3-Dimethylpentane	71	10.388	10.393	-0.005	91	241900	2.06	
52 Thiophene	84	10.507	10.504	0.003	98	671982	2.07	
53 Isooctane	57	11.111	11.110	0.001	99	2171228	1.97	
54 n-Heptane	71	11.553	11.550	0.003	94	401775	1.95	
55 1,2-Dichloropropane	63	11.574	11.576	-0.002	83	447717	2.03	
56 Trichloroethene	130	11.639	11.636	0.003	96	485888	2.10	
57 Dibromomethane	93	11.704	11.702	0.002	95	420323	1.98	
58 Dichlorobromomethane	83	11.893	11.895	-0.002	98	793173	2.06	
59 1,4-Dioxane	88	11.909	11.918	-0.009	94	153448	1.81	
60 Methyl methacrylate	41	12.044	12.045	-0.001	95	576352	1.81	
61 Methylcyclohexane	83	12.599	12.594	0.005	90	674155	2.02	
62 4-Methyl-2-pentanone (MIBK)	43	13.101	13.106	-0.006	98	1038080	1.82	
63 cis-1,3-Dichloropropene	75	13.160	13.159	0.001	96	600910	2.05	
64 trans-1,3-Dichloropropene	75	14.098	14.092	0.006	98	611558	2.12	
65 Toluene	91	14.276	14.269	0.007	93	1294262	2.06	
66 1,1,2-Trichloroethane	83	14.357	14.354	0.003	98	364232	1.98	
67 2-Methylthiophene	97	14.476	14.472	0.004	98	1106730	2.07	
68 3-Methylthiophene	97	14.756	14.754	0.002	99	1123314	2.06	
69 2-Hexanone	58	14.939	14.940	-0.001	92	526469	2.01	
71 Chlorodibromomethane	129	15.338	15.334	0.004	79	705781	2.09	
70 n-Octane	85	15.338	15.335	0.003	96	419652	1.85	
72 Ethylene Dibromide	107	15.754	15.750	0.004	98	668468	2.06	
73 Tetrachloroethene	129	15.910	15.910	0.0	95	441591	2.06	
74 Chlorobenzene	112	17.247	17.232	0.015	91	983296	1.96	
75 2,3-Dimethylheptane	43	17.409	17.390	0.019	95	1480833	1.92	
76 Ethylbenzene	91	17.754	17.734	0.020	98	1570354	2.01	
77 2-Ethylthiophene	97	17.916	17.891	0.025	98	1191141	2.00	
78 m-Xylene & p-Xylene	91	18.035	18.011	0.024	98	2476093	3.99	
79 Bromoform	173	18.682	18.662	0.020	95	660028	2.05	
80 Styrene	104	18.795	18.776	0.019	98	934478	2.14	
81 n-Nonane	57	18.860	18.845	0.015	95	972326	1.84	
82 o-Xylene	91	18.897	18.879	0.018	97	1254906	1.96	
83 1,1,2,2-Tetrachloroethane	83	19.437	19.422	0.015	99	953282	1.98	
84 1,2,3-Trichloropropane	110	19.706	19.688	0.018	95	284303	1.92	
85 Isopropylbenzene	105	19.933	19.919	0.014	97	1827153	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
86 N-Propylbenzene	120	20.898	20.891	0.007	98	502292	1.88	
87 2-Chlorotoluene	126	20.930	20.915	0.015	95	448579	1.95	
88 4-Ethyltoluene	105	21.189	21.182	0.007	98	1895109	1.88	
89 1,3,5-Trimethylbenzene	120	21.345	21.337	0.008	92	867834	1.93	
90 Alpha Methyl Styrene	118	21.777	21.770	0.007	86	702620	1.97	
91 n-Decane	57	22.057	22.050	0.007	88	1285441	1.77	
92 tert-Butylbenzene	119	22.154	22.149	0.005	83	1637716	1.87	
93 1,2,4-Trimethylbenzene	105	22.187	22.179	0.008	96	1586849	1.91	
94 1,3-Dichlorobenzene	146	22.667	22.660	0.007	98	1039291	1.86	
95 sec-Butylbenzene	105	22.715	22.710	0.005	98	2325893	1.87	
96 Benzyl chloride	91	22.839	22.831	0.008	96	1420680	2.08	
97 1,4-Dichlorobenzene	146	22.850	22.847	0.003	92	1058730	1.88	
98 4-Isopropyltoluene	119	23.082	23.081	0.001	97	2048665	1.93	
99 1,2,3-Trimethylbenzene	105	23.141	23.134	0.007	99	1453780	1.94	
100 Butylcyclohexane	83	23.330	23.327	0.003	89	1281819	1.92	
101 1,2-Dichlorobenzene	146	23.599	23.598	0.001	94	995044	1.84	
102 2,3-Dihydroindene	117	23.626	23.625	0.001	90	1428414	1.89	
103 Indene	116	23.901	23.898	0.003	87	1452955	1.96	
104 n-Butylbenzene	91	24.036	24.031	0.005	98	1898280	1.92	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.894	24.892	0.002	99	1921546	1.93	
106 Undecane	57	24.948	24.950	-0.002	95	1554331	1.97	
107 1,2,4,5-Tetramethylbenzene	119	25.810	25.814	-0.004	97	2014214	1.94	
108 1,2,3,5-Tetramethylbenzene	119	25.940	25.942	-0.002	95	1266555	1.94	
109 1,2,3,4-Tetramethylbenzene	119	26.829	26.837	-0.008	97	1678934	1.93	
110 Dodecane	57	27.444	27.451	-0.007	93	1441702	1.91	
111 1,2,4-Trichlorobenzene	180	27.520	27.524	-0.004	93	828431	1.82	
112 Naphthalene	128	27.752	27.760	-0.008	99	1927953	1.92	
113 Benzo(b)thiophene	134	27.951	27.953	-0.002	99	1477948	1.86	
114 Hexachlorobutadiene	225	28.291	28.296	-0.005	84	737397	1.72	
115 1,2,3-Trichlorobenzene	180	28.323	28.333	-0.010	92	802933	1.86	
116 2-Methylnaphthalene	142	29.795	29.812	-0.017	100	959657	12.6	
117 1-Methylnaphthalene	142	30.097	30.124	-0.027	99	851825	13.3	
A 118 C6 Range	1	7.821	7.730 -	7.913	0	4486306	2.44	
A 119 Toluene Range	1	14.286	14.200 -	14.362	0	5731634	2.41	
A 120 C8 Range	1	15.344	15.274 -	15.414	0	6892088	1.88	
S 124 Xylenes, Total	100				0		5.95	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\RICVA24a.D

Injection Date: 24-Jan-2014 11:35:30

Instrument ID: MR

Operator ID: 7126

Lims ID: icv with extra

Lab Sample ID: ICV 140-724/16-A

Worklist Smp#: 16

Client ID:

Purge Vol: 500.000 mL

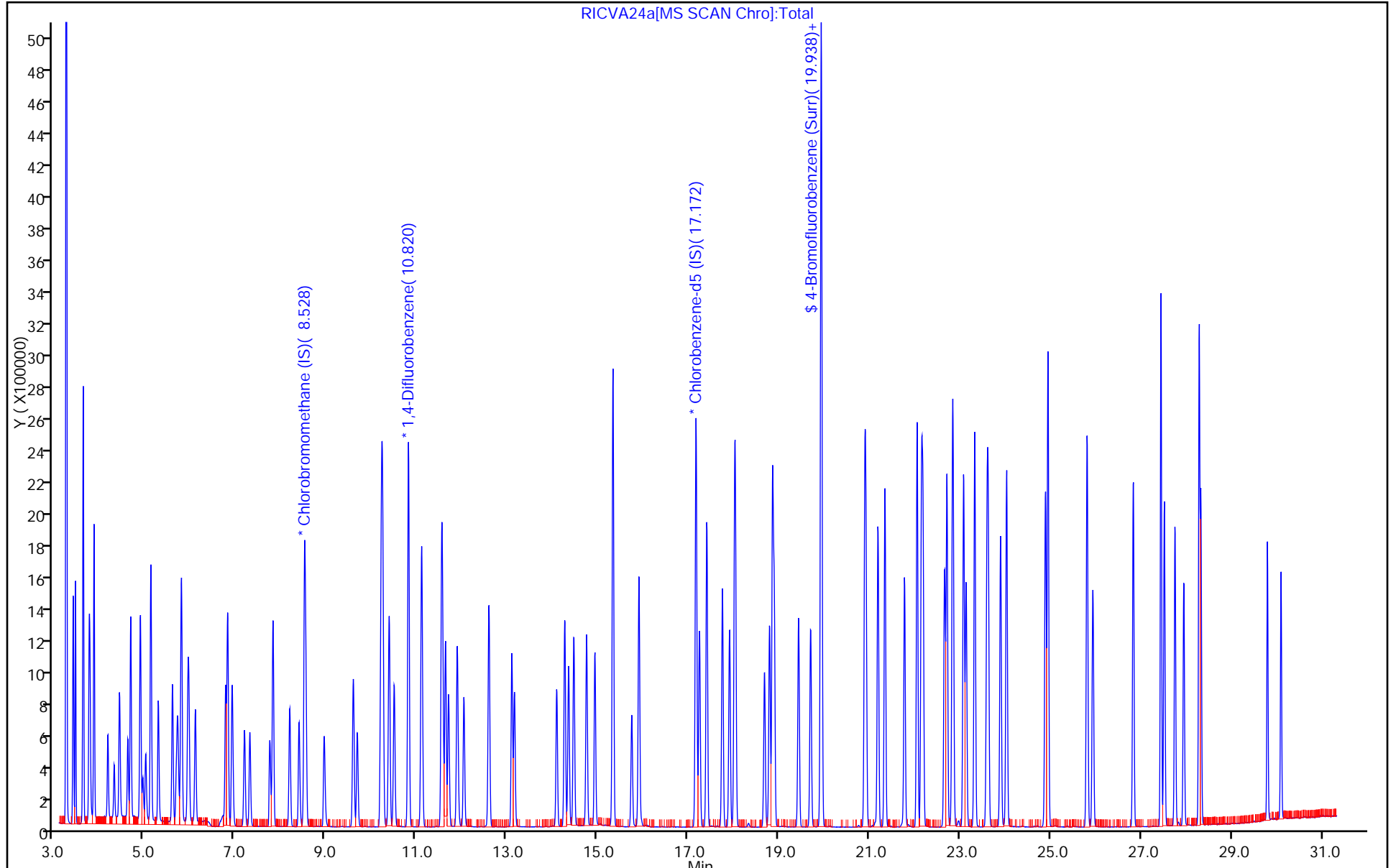
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-979/2 Calibration Date: 03/20/2014 09:54
 Instrument ID: MR Calib Start Date: 01/21/2014 17:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/22/2014 00:00
 Lab File ID: RCCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4302	0.4551		2.12	2.00	5.8	30.0
Propene	Ave	1.679	1.696		2.02	2.00	1.0	30.0
Dichlorodifluoromethane	Ave	4.020	4.487		2.23	2.00	11.6	30.0
Chloromethane	Ave	0.5930	0.6681		2.25	2.00	12.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.879	3.012		2.09	2.00	4.6	30.0
Acetaldehyde	Ave	1.828	0.8541		4.67	10.0	-53.3*	50.0
Vinyl chloride	Ave	1.816	2.022		2.23	2.00	11.4	30.0
1,3-Butadiene	Ave	1.527	1.718		2.25	2.00	12.5	30.0
Butane	Ave	3.020	3.435		2.27	2.00	13.7	30.0
Bromomethane	Ave	1.523	1.506		1.98	2.00	-1.1	30.0
Chloroethane	Ave	0.9180	0.9438		2.06	2.00	2.8	30.0
Ethanol	Ave	0.6757	0.6752		9.99	10.0	-0.0	50.0
Vinyl bromide	Ave	1.471	1.561		2.12	2.00	6.1	30.0
2-Methylbutane	Ave	2.298	2.498		2.17	2.00	8.7	30.0
Acrolein	Ave	0.8185	0.6007		1.47	2.00	-26.6	30.0
Trichlorofluoromethane	Ave	3.966	3.898		1.97	2.00	-1.7	30.0
Acetonitrile	Ave	0.7674	0.8192		2.13	2.00	6.7	30.0
Isopropyl alcohol	Ave	3.097	2.825		1.82	2.00	-8.8	30.0
Pentane	Ave	0.3251	0.3220		1.98	2.00	-1.0	30.0
Ethyl ether	Ave	2.157	2.181		2.02	2.00	1.1	30.0
1,1-Dichloroethene	Ave	1.280	1.508		2.36	2.00	17.8	30.0
Acrylonitrile	Ave	1.424	1.525		2.14	2.00	7.2	30.0
tert-Butyl alcohol	Ave	3.154	2.997		1.90	2.00	-5.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.682	3.200		2.39	2.00	19.3	30.0
Methylene Chloride	Ave	1.255	1.413		2.25	2.00	12.5	30.0
3-Chloropropene	Ave	1.475	1.546		2.10	2.00	4.9	30.0
Carbon disulfide	Ave	4.355	4.577		2.10	2.00	5.1	30.0
trans-1,2-Dichloroethene	Ave	1.578	1.602		2.03	2.00	1.6	30.0
2-Methylpentane	Ave	4.422	4.756		2.15	2.00	7.6	50.0
Methyl tert-butyl ether	Ave	4.280	4.321		2.02	2.00	1.0	30.0
1,1-Dichloroethane	Ave	2.838	3.155		2.22	2.00	11.1	30.0
Vinyl acetate	Ave	4.623	5.048		2.18	2.00	9.2	30.0
2-Butanone (MEK)	Ave	0.9176	0.7535		1.64	2.00	-17.9	30.0
Hexane	Ave	1.578	1.597		2.02	2.00	1.2	30.0
cis-1,2-Dichloroethene	Ave	1.459	1.654		2.27	2.00	13.4	30.0
Ethyl acetate	Ave	4.202	4.480		2.13	2.00	6.6	30.0
Chloroform	Ave	2.977	3.249		2.18	2.00	9.2	30.0
Tetrahydrofuran	Ave	2.285	2.387		2.09	2.00	4.5	30.0
1,1,1-Trichloroethane	Ave	2.906	3.092		2.13	2.00	6.4	30.0
1,2-Dichloroethane	Ave	0.4407	0.4662		2.12	2.00	5.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-979/2 Calibration Date: 03/20/2014 09:54
 Instrument ID: MR Calib Start Date: 01/21/2014 17:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/22/2014 00:00
 Lab File ID: RCCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1-Butanol	Ave	0.1284	0.1082		1.69	2.00	-15.7	30.0
Benzene	Ave	0.8820	0.9347		2.12	2.00	6.0	30.0
Cyclohexane	Ave	0.1490	0.1463		1.96	2.00	-1.8	30.0
Carbon tetrachloride	Ave	0.5896	0.6155		2.09	2.00	4.4	30.0
2,3-Dimethylpentane	Ave	0.1919	0.2043		2.13	2.00	6.5	50.0
Thiophene	Ave	0.5288	0.5670		2.14	2.00	7.2	50.0
2,2,4-Trimethylpentane	Ave	1.796	1.853		2.06	2.00	3.2	30.0
Heptane	Ave	0.3372	0.3400		2.02	2.00	0.8	30.0
1,2-Dichloropropane	Ave	0.3592	0.3859		2.15	2.00	7.4	30.0
Trichloroethene	Ave	0.3777	0.3971		2.10	2.00	5.1	30.0
Dibromomethane	Ave	0.3465	0.3505		2.02	2.00	1.1	30.0
Bromodichloromethane	Ave	0.6274	0.6461		2.06	2.00	3.0	30.0
1,4-Dioxane	Ave	0.1387	0.1258		1.81	2.00	-9.4	30.0
Methyl methacrylate	Ave	0.5194	0.5146		1.98	2.00	-0.9	30.0
Methylcyclohexane	Ave	0.5440	0.5716		2.10	2.00	5.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9289	0.8930		1.92	2.00	-3.9	30.0
cis-1,3-Dichloropropene	Ave	0.4775	0.5250		2.20	2.00	9.9	30.0
trans-1,3-Dichloropropene	Ave	0.5692	0.6208		2.18	2.00	9.1	30.0
Toluene	Ave	1.238	1.325		2.14	2.00	7.0	30.0
1,1,2-Trichloroethane	Ave	0.3635	0.3839		2.11	2.00	5.6	30.0
2-Methylthiophene	Ave	1.053	1.130		2.15	2.00	7.3	50.0
3-Methylthiophene	Ave	1.074	1.154		2.15	2.00	7.5	50.0
2-Hexanone	Ave	0.5179	0.4276		1.65	2.00	-17.4	30.0
Dibromochloromethane	Ave	0.6672	0.7186		2.15	2.00	7.7	30.0
Octane	Ave	0.4467	0.4410		1.97	2.00	-1.3	30.0
1,2-Dibromoethane (EDB)	Ave	0.6400	0.6883		2.15	2.00	7.5	30.0
Tetrachloroethene	Ave	0.4233	0.4393		2.08	2.00	3.8	30.0
Chlorobenzene	Ave	0.9899	1.046		2.11	2.00	5.7	30.0
2,3-Dimethylheptane	Ave	1.525	1.635		2.14	2.00	7.2	50.0
Ethylbenzene	Ave	1.542	1.677		2.18	2.00	8.8	30.0
2-Ethylthiophene	Ave	1.174	1.283		2.19	2.00	9.3	50.0
m-Xylene & p-Xylene	Ave	1.224	1.306		4.27	4.00	6.7	30.0
Bromoform	Ave	0.6350	0.6708		2.11	2.00	5.6	30.0
Styrene	Ave	0.8614	0.9850		2.29	2.00	14.4	30.0
Nonane	Ave	1.040	1.071		2.06	2.00	3.0	30.0
o-Xylene	Ave	1.263	1.345		2.13	2.00	6.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9511	1.000		2.10	2.00	5.2	30.0
1,2,3-Trichloropropane	Ave	0.2927	0.2920		2.00	2.00	-0.2	30.0
Isopropylbenzene	Ave	1.940	1.953		2.01	2.00	0.7	30.0
Propylbenzene	Ave	0.5279	0.5378		2.04	2.00	1.9	30.0
2-Chlorotoluene	Ave	0.4547	0.4782		2.10	2.00	5.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-979/2 Calibration Date: 03/20/2014 09:54
 Instrument ID: MR Calib Start Date: 01/21/2014 17:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 01/22/2014 00:00
 Lab File ID: RCCVC20.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Ethyltoluene	Ave	1.990	1.989		2.00	2.00	-0.0	30.0
1,3,5-Trimethylbenzene	Ave	0.8857	0.9147		2.07	2.00	3.3	30.0
Alpha Methyl Styrene	Ave	0.7049	0.7195		2.04	2.00	2.1	30.0
Decane	Ave	1.432	1.350		1.88	2.00	-5.8	30.0
tert-Butylbenzene	Ave	1.724	1.692		1.96	2.00	-1.9	30.0
1,2,4-Trimethylbenzene	Ave	1.643	1.626		1.98	2.00	-1.1	30.0
1,3-Dichlorobenzene	Ave	1.105	1.066		1.93	2.00	-3.5	30.0
sec-Butylbenzene	Ave	2.451	2.410		1.97	2.00	-1.7	30.0
Benzyl chloride	Ave	1.346	1.349		2.01	2.00	0.3	30.0
1,4-Dichlorobenzene	Ave	1.113	1.073		1.93	2.00	-3.7	30.0
4-Isopropyltoluene	Ave	2.097	2.061		1.97	2.00	-1.7	30.0
1,2,3-Trimethylbenzene	Ave	1.480	1.474		1.99	2.00	-0.4	50.0
Butylcyclohexane	Ave	1.320	1.358		2.06	2.00	2.9	50.0
1,2-Dichlorobenzene	Ave	1.067	0.9919		1.86	2.00	-7.0	30.0
Indane	Ave	1.492	1.498		2.01	2.00	0.4	50.0
Indene	Ave	1.466	1.451		1.98	2.00	-1.1	50.0
Butylbenzene	Ave	1.948	1.899		1.95	2.00	-2.5	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.968	1.875		1.91	2.00	-4.7	50.0
Undecane	Ave	1.560	1.482		1.90	2.00	-5.0	30.0
1,2,4,5-Tetramethylbenzene	Ave	2.053	1.911		1.86	2.00	-6.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	1.287	1.185		1.84	2.00	-8.0	50.0
1,2,3,4-Tetramethylbenzene	Ave	1.717	1.524		1.78	2.00	-11.2	50.0
Dodecane	Ave	1.492	1.120		1.50	2.00	-25.0	30.0
1,2,4-Trichlorobenzene	Ave	0.8981	0.6960		1.55	2.00	-22.5	30.0
Naphthalene	Ave	1.984	1.578		1.59	2.00	-20.5	30.0
Benzo (b) thiophene	Ave	1.566	1.174		1.50	2.00	-25.0	50.0
Hexachlorobutadiene	Ave	0.8457	0.6192		1.46	2.00	-26.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8521	0.6318		1.48	2.00	-25.8	30.0
2-Methylnaphthalene	Ave	0.1506	0.0974		8.09	12.5	-35.3	50.0
1-Methylnaphthalene	Ave	0.1263	0.0763		7.55	12.5	-39.6	50.0
Acetone	Ave	5.059				2.00		
4-Bromofluorobenzene (Surr)	Ave	0.7880	0.7572		3.84	4.00	-3.9	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RCCVC20.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 20-Mar-2014 09:54:30 ALS Bottle#: 8 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis,,2,6,,
 Misc. Info.: R032014,TO15,140-0000535-002
 Operator ID: 7126 Instrument ID: MR
 Sublist: chrom-MR_TO15*sub2
 Method: \\KNXCHROM\ChromData\MR\20140319-535.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 15:54:16 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: tajh

Date: 20-Mar-2014 14:40:34

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.463	8.463	0.0	95	273173	4.00	
* 2 1,4-Difluorobenzene	114	10.760	10.760	0.0	96	1437109	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.091	17.091	0.0	88	1222152	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.846	19.846	0.0	89	925408	3.84	
6 Chlorodifluoromethane	67	3.383	3.383	0.0	95	62165	2.12	
7 Propene	41	3.394	3.394	0.0	99	231686	2.02	
8 Dichlorodifluoromethane	85	3.437	3.437	0.0	100	612878	2.23	
9 Chloromethane	52	3.594	3.594	0.0	99	91248	2.25	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.605	3.605	0.0	95	411453	2.09	
11 Acetaldehyde	44	3.734	3.734	0.0	98	583298	4.67	
12 Vinyl chloride	62	3.756	3.756	0.0	99	276219	2.23	
14 Butadiene	54	3.836	3.836	0.0	96	234711	2.25	
13 Butane	43	3.842	3.842	0.0	89	469109	2.27	
15 Bromomethane	94	4.144	4.144	0.0	99	205643	1.98	
16 Chloroethane	64	4.279	4.279	0.0	97	128910	2.06	
17 Ethanol	31	4.386	4.386	0.0	94	461088	10.0	
18 Vinyl bromide	106	4.581	4.581	0.0	97	213253	2.12	
19 2-Methylbutane	43	4.640	4.640	0.0	93	341174	2.17	
21 Acrolein	56	4.839	4.839	0.0	93	82040	1.47	
20 Trichlorofluoromethane	101	4.850	4.850	0.0	98	532444	1.97	
22 Acetonitrile	40	4.899	4.899	0.0	99	111890	2.13	
25 Isopropyl alcohol	45	5.066	5.066	0.0	74	385898	1.82	
24 Pentane	72	5.082	5.082	0.0	96	43976	1.98	
26 Ethyl ether	31	5.238	5.238	0.0	93	297920	2.02	
27 1,1-Dichloroethene	96	5.557	5.557	0.0	95	205932	2.36	
28 Acrylonitrile	53	5.632	5.632	0.0	95	208340	2.14	
29 2-Methyl-2-propanol	59	5.659	5.659	0.0	96	409385	1.90	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.751	5.751	0.0	95	437028	2.39	
31 Methylene Chloride	84	5.896	5.896	0.0	93	192969	2.25	
32 3-Chloro-1-propene	39	5.918	5.918	0.0	93	211212	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.058	6.058	0.0	100	625147	2.10	
34 trans-1,2-Dichloroethene	96	6.721	6.721	0.0	95	218846	2.03	
35 2-Methylpentane	43	6.770	6.770	0.0	97	649579	2.15	
36 Methyl tert-butyl ether	73	6.862	6.862	0.0	95	590217	2.02	
37 1,1-Dichloroethane	63	7.137	7.137	0.0	99	430869	2.22	
38 Vinyl acetate	43	7.255	7.255	0.0	100	689463	2.18	
39 2-Butanone (MEK)	72	7.687	7.687	0.0	98	102921	1.64	
40 Hexane	56	7.773	7.773	0.0	90	218157	2.02	
41 cis-1,2-Dichloroethene	96	8.134	8.134	0.0	97	225940	2.27	
42 Ethyl acetate	43	8.334	8.334	0.0	98	611884	2.13	
43 Chloroform	83	8.490	8.490	0.0	95	443762	2.18	
44 Tetrahydrofuran	42	8.889	8.889	0.0	94	326064	2.09	
45 1,1,1-Trichloroethane	97	9.542	9.542	0.0	96	422257	2.13	
46 1,2-Dichloroethane	62	9.622	9.622	0.0	94	334985	2.12	
49 n-Butanol	31	10.140	10.140	0.0	57	77774	1.69	
47 Benzene	78	10.156	10.156	0.0	97	671657	2.12	
48 Cyclohexane	69	10.178	10.178	0.0	92	105106	1.96	
50 Carbon tetrachloride	117	10.194	10.194	0.0	95	442302	2.09	
51 2,3-Dimethylpentane	71	10.334	10.334	0.0	91	146820	2.13	
52 Thiophene	84	10.442	10.442	0.0	97	407381	2.14	
53 Isooctane	57	11.051	11.051	0.0	98	1331767	2.06	
54 n-Heptane	71	11.494	11.494	0.0	95	244304	2.02	
55 1,2-Dichloropropane	63	11.510	11.510	0.0	84	277252	2.15	
56 Trichloroethene	130	11.574	11.574	0.0	95	285329	2.10	
57 Dibromomethane	93	11.639	11.639	0.0	94	251845	2.02	
58 Dichlorobromomethane	83	11.828	11.828	0.0	97	464274	2.06	
59 1,4-Dioxane	88	11.844	11.844	0.0	94	90363	1.81	
60 Methyl methacrylate	41	11.979	11.979	0.0	95	369785	1.98	
61 Methylcyclohexane	83	12.534	12.534	0.0	90	410688	2.10	
62 4-Methyl-2-pentanone (MIBK)	43	13.036	13.036	0.0	97	641667	1.92	
63 cis-1,3-Dichloropropene	75	13.095	13.095	0.0	97	377251	2.20	
64 trans-1,3-Dichloropropene	75	14.023	14.023	0.0	97	379347	2.18	
65 Toluene	91	14.201	14.201	0.0	93	809446	2.14	
66 1,1,2-Trichloroethane	83	14.281	14.281	0.0	97	234593	2.11	
67 2-Methylthiophene	97	14.400	14.400	0.0	98	690314	2.15	
68 3-Methylthiophene	97	14.686	14.686	0.0	100	705256	2.15	
69 2-Hexanone	58	14.864	14.864	0.0	91	261315	1.65	
71 Chlorodibromomethane	129	15.263	15.263	0.0	95	439098	2.15	
70 n-Octane	85	15.268	15.268	0.0	97	269472	1.97	
72 Ethylene Dibromide	107	15.673	15.673	0.0	98	420592	2.15	
73 Tetrachloroethene	129	15.834	15.834	0.0	95	268454	2.08	
74 Chlorobenzene	112	17.166	17.166	0.0	91	639475	2.11	
75 2,3-Dimethylheptane	43	17.328	17.328	0.0	95	999090	2.14	
76 Ethylbenzene	91	17.673	17.673	0.0	98	1025005	2.18	
77 2-Ethylthiophene	97	17.830	17.830	0.0	98	783888	2.19	
78 m-Xylene & p-Xylene	91	17.948	17.948	0.0	100	1596316	4.27	
79 Bromoform	173	18.595	18.595	0.0	95	409884	2.11	
80 Styrene	104	18.709	18.709	0.0	97	601913	2.29	
81 n-Nonane	57	18.779	18.779	0.0	96	654692	2.06	
82 o-Xylene	91	18.811	18.811	0.0	97	821856	2.13	
83 1,1,2,2-Tetrachloroethane	83	19.345	19.345	0.0	99	611312	2.10	
84 1,2,3-Trichloropropane	110	19.609	19.609	0.0	94	178451	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	19.841	19.841	0.0	97	1193708	2.01	
86 N-Propylbenzene	120	20.806	20.806	0.0	97	328648	2.04	
87 2-Chlorotoluene	126	20.828	20.828	0.0	93	292220	2.10	
88 4-Ethyltoluene	105	21.092	21.092	0.0	99	1215666	2.00	
89 1,3,5-Trimethylbenzene	120	21.248	21.248	0.0	92	558945	2.07	
90 Alpha Methyl Styrene	118	21.680	21.680	0.0	85	439672	2.04	
91 n-Decane	57	21.960	21.960	0.0	87	824782	1.88	
92 tert-Butylbenzene	119	22.052	22.052	0.0	88	1033715	1.96	
93 1,2,4-Trimethylbenzene	105	22.084	22.084	0.0	97	993324	1.98	
94 1,3-Dichlorobenzene	146	22.559	22.559	0.0	98	651242	1.93	
95 sec-Butylbenzene	105	22.613	22.613	0.0	98	1472636	1.97	
96 Benzyl chloride	91	22.731	22.731	0.0	97	824576	2.01	
97 1,4-Dichlorobenzene	146	22.747	22.747	0.0	91	655466	1.93	
98 4-Isopropyltoluene	119	22.979	22.979	0.0	90	1259715	1.97	
99 1,2,3-Trimethylbenzene	105	23.033	23.033	0.0	99	900744	1.99	
100 Butylcyclohexane	83	23.227	23.227	0.0	90	829659	2.06	
101 1,2-Dichlorobenzene	146	23.492	23.492	0.0	93	606104	1.86	
102 2,3-Dihydroindene	117	23.519	23.519	0.0	90	915122	2.01	
103 Indene	116	23.788	23.788	0.0	88	886376	1.98	
104 n-Butylbenzene	91	23.928	23.928	0.0	98	1160289	1.95	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.780	24.780	0.0	97	1145833	1.91	
106 Undecane	57	24.834	24.834	0.0	95	905826	1.90	
107 1,2,4,5-Tetramethylbenzene	119	25.692	25.692	0.0	97	1167880	1.86	
108 1,2,3,5-Tetramethylbenzene	119	25.821	25.821	0.0	96	723921	1.84	
109 1,2,3,4-Tetramethylbenzene	119	26.722	26.722	0.0	98	931499	1.78	
110 Dodecane	57	27.342	27.342	0.0	93	684185	1.50	
111 1,2,4-Trichlorobenzene	180	27.412	27.412	0.0	91	425294	1.55	
112 Naphthalene	128	27.649	27.649	0.0	99	964452	1.59	
113 Benzo(b)thiophene	134	27.843	27.843	0.0	99	717461	1.50	
114 Hexachlorobutadiene	225	28.188	28.188	0.0	84	378399	1.46	
115 1,2,3-Trichlorobenzene	180	28.226	28.226	0.0	91	386084	1.48	
116 2-Methylnaphthalene	142	29.704	29.704	0.0	99	372076	8.09	
117 1-Methylnaphthalene	142	30.006	30.006	0.0	100	291455	7.55	
A 118 C6 Range	1	7.791	7.714 - 7.843		0	1888623	1.75	
A 119 Toluene Range	1	14.206	14.130 - 14.281		0	3656061	2.62	
A 120 C8 Range	1	15.268	15.209 - 15.328		0	4452042	2.07	
S 124 Xylenes, Total	100				0		6.40	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RCCVC20.D

Injection Date: 20-Mar-2014 09:54:30

Instrument ID: MR

Operator ID: 7126

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

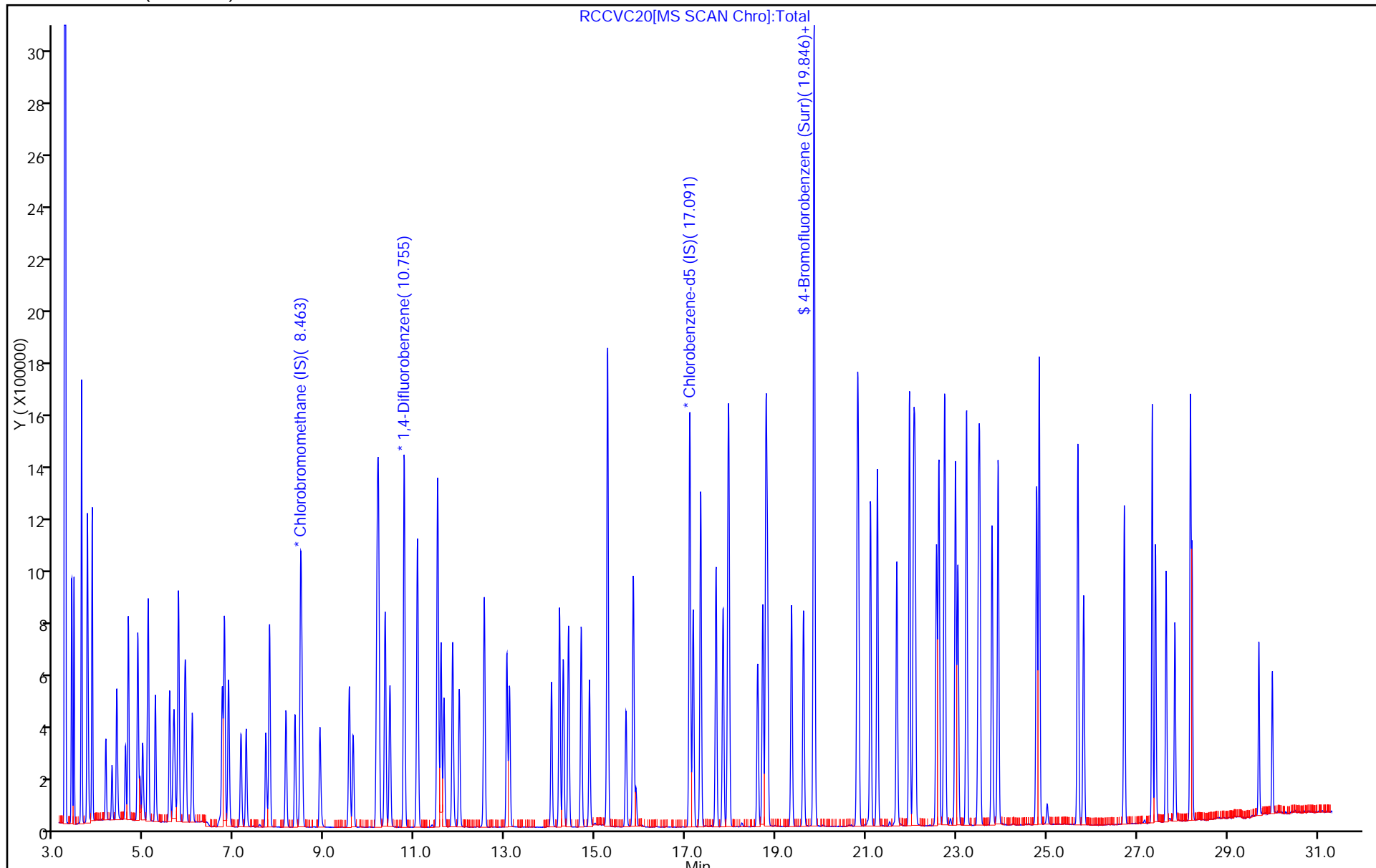
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

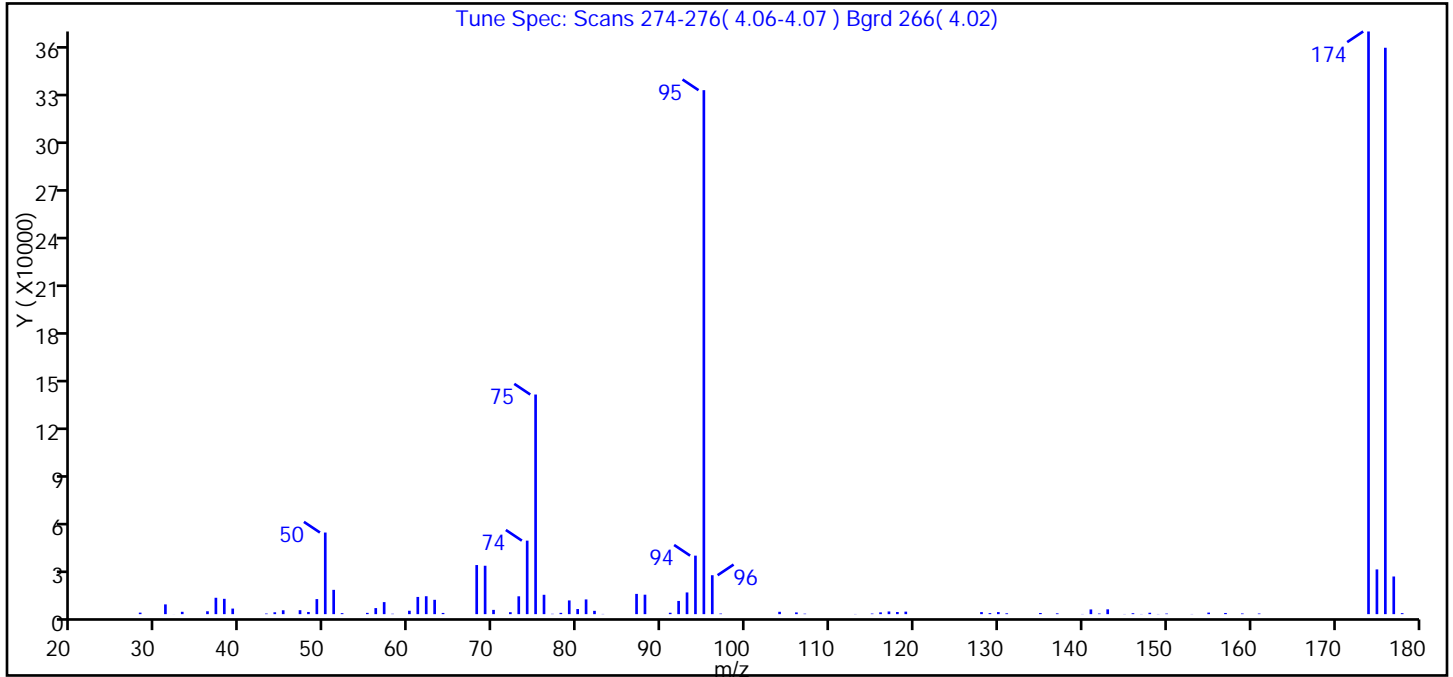
Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Sample Type: BFB
 Inject. Date: 11-Mar-2014 12:12:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,BFB
 Misc. Info.: J031114I,BFB,,,,140-0000516-001
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.067	4.067	0.0	0	577512	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
 Injection Date: 11-Mar-2014 12:12:30 Instrument ID: MJ
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.60
75	30.00 - 60.00% of mass 95	41.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	111.20
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	108.10 (97.20)
177	5.00 - 9.00% of mass 176	7.20 (6.60)

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D\MJ_TO15.rslt\spectra.d

Injection Date: 11-Mar-2014 12:12:30

Spectrum: Tune Spec: Scans 274-276(4.06-4.07) Bgrd 266(4.02)

Base Peak: 174.00

Minimum % Base Peak: 0

Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	953	61.00	10830	92.00	8305	141.00	2961
31.00	6139	62.00	11271	93.00	13655	142.00	393
32.00	34	63.00	9021	94.00	36808	143.00	3028
33.00	1475	64.00	763	95.00	329664	145.00	103
36.00	1812	68.00	30888	96.00	24488	146.00	580
37.00	10300	69.00	30448	97.00	363	147.00	102
38.00	9642	70.00	2681	104.00	1481	148.00	873
39.00	3502	72.00	1219	106.00	1093	149.00	103
43.00	373	73.00	11227	107.00	287	150.00	366
44.00	1174	74.00	46248	113.00	104	153.00	104
45.00	2439	75.00	138176	115.00	366	155.00	974
47.00	2486	76.00	12185	116.00	1129	157.00	736
48.00	1370	77.00	211	117.00	1684	159.00	420
49.00	9471	78.00	817	118.00	1356	161.00	400
50.00	51344	79.00	8634	119.00	1577	174.00	366592
51.00	15289	80.00	3213	128.00	1285	175.00	28144
52.00	627	81.00	9265	129.00	646	176.00	356352
55.00	803	82.00	2083	130.00	1299	177.00	23688
56.00	3804	83.00	127	131.00	535	178.00	619
57.00	7571	87.00	12739	135.00	724		
58.00	240	88.00	12242	137.00	514		
60.00	2142	91.00	876	140.00	107		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFC11.D

Injection Date: 11-Mar-2014 12:12:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: BFB

Lab Sample ID:

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

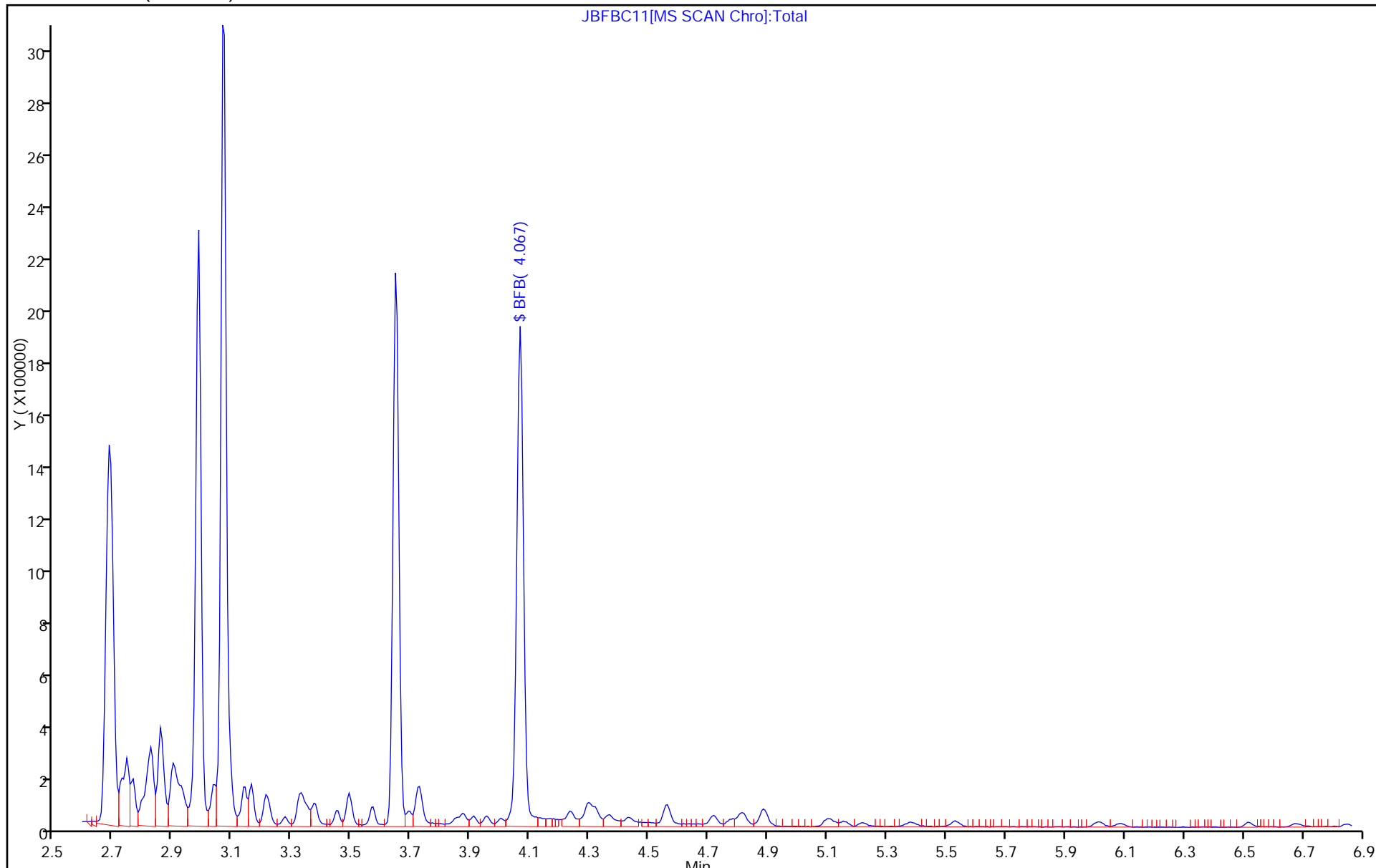
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 19-Mar-2014 10:38:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,bfb
 Misc. Info.: J031914,BFB,,140-0000532-001
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:16:56 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

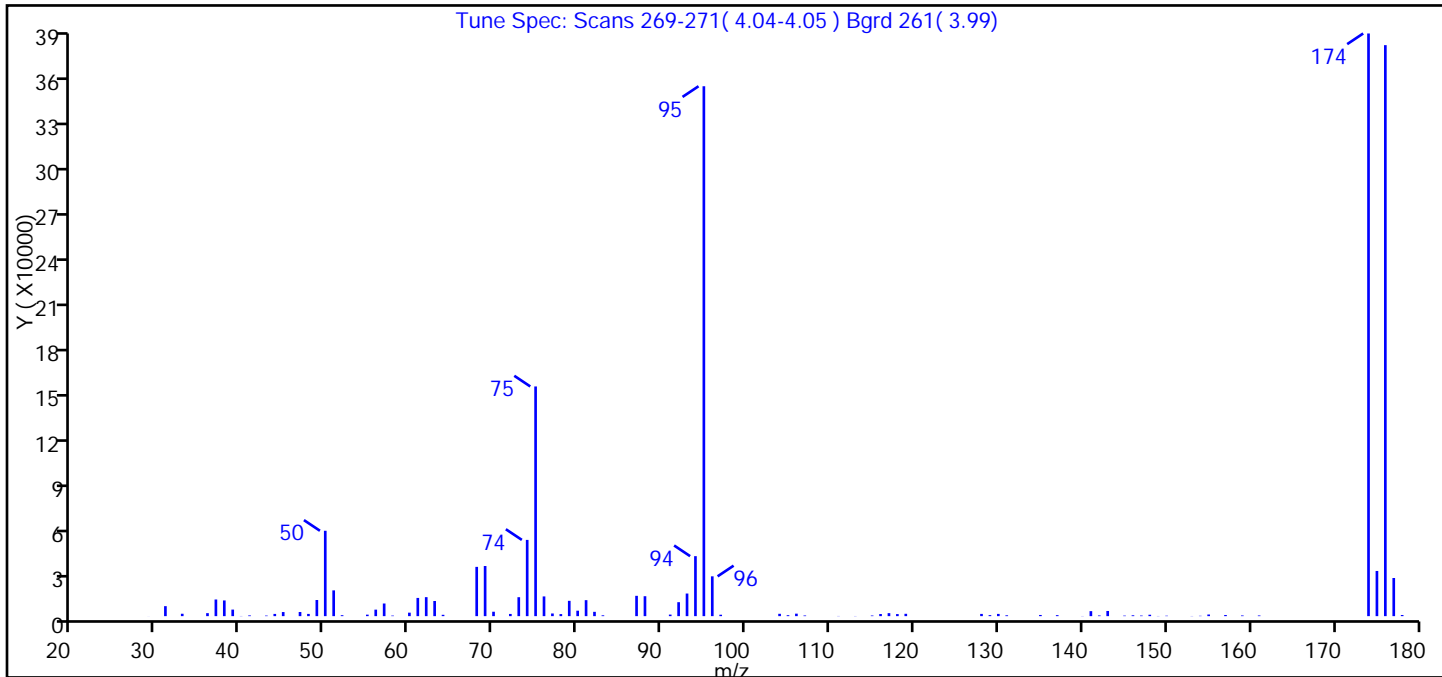
First Level Reviewer: barlozhetskayaa Date: 19-Mar-2014 17:16:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.042	4.042	0.0	0	588214	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D
 Injection Date: 19-Mar-2014 10:38:30 Instrument ID: MJ
 Lims ID: bfb
 Client ID:
 Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.10
75	30.00 - 60.00% of mass 95	43.30
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.00
175	5.00 - 9.00% of mass 174	8.50 (7.80)
176	95.00 - 101.00% of mass 174	107.80 (98.00)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D\MJ_TO15.rslt\spectra.d

Injection Date: 19-Mar-2014 10:38:30

Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 261(3.99)

Base Peak: 174.00

Minimum % Base Peak: 0

Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	28	60.00	2308	92.00	9259	140.00	103
31.00	6625	61.00	12085	93.00	14998	141.00	3315
33.00	1591	62.00	12603	94.00	39800	142.00	446
36.00	1985	63.00	10044	95.00	351552	143.00	3427
37.00	11046	64.00	891	96.00	26408	145.00	348
38.00	10418	68.00	32688	97.00	943	146.00	565
39.00	4344	69.00	33256	104.00	1556	147.00	385
40.00	107	70.00	2928	105.00	622	148.00	932
41.00	481	72.00	1462	106.00	1649	149.00	107
43.00	372	73.00	12565	107.00	441	150.00	280
44.00	1478	74.00	50584	111.00	119	153.00	105
45.00	2716	75.00	152384	113.00	103	154.00	223
47.00	2742	76.00	13080	115.00	414	155.00	1085
48.00	1483	77.00	1770	116.00	1399	157.00	744
49.00	10707	78.00	1366	117.00	1989	159.00	453
50.00	56640	79.00	10160	118.00	1366	161.00	446
51.00	17096	80.00	3607	119.00	1556	174.00	386560
52.00	624	81.00	10605	128.00	1482	175.00	29968
54.00	2	82.00	2859	129.00	675	176.00	378816
55.00	995	83.00	551	130.00	1486	177.00	25304
56.00	4310	87.00	13476	131.00	559	178.00	747
57.00	8387	88.00	13219	135.00	777		
58.00	371	91.00	1033	137.00	652		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JBFBC19.D

Injection Date: 19-Mar-2014 10:38:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

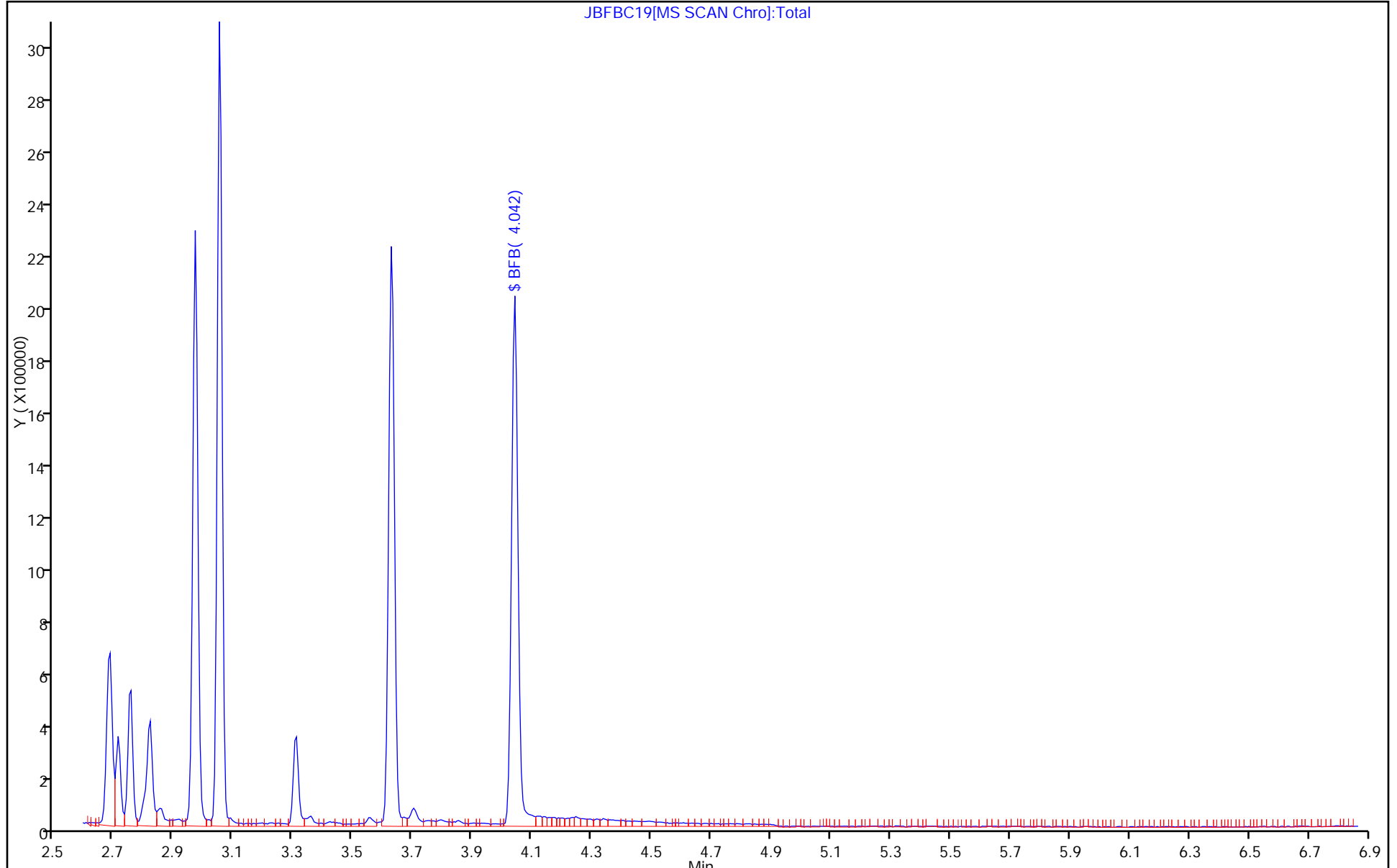
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-001.D
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Jan-2014 17:09:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: R012114I,BFB,
 Operator ID: 403648 Instrument ID: MR
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Jan-2014 16:18:57 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 23-Jan-2014 16:18:57

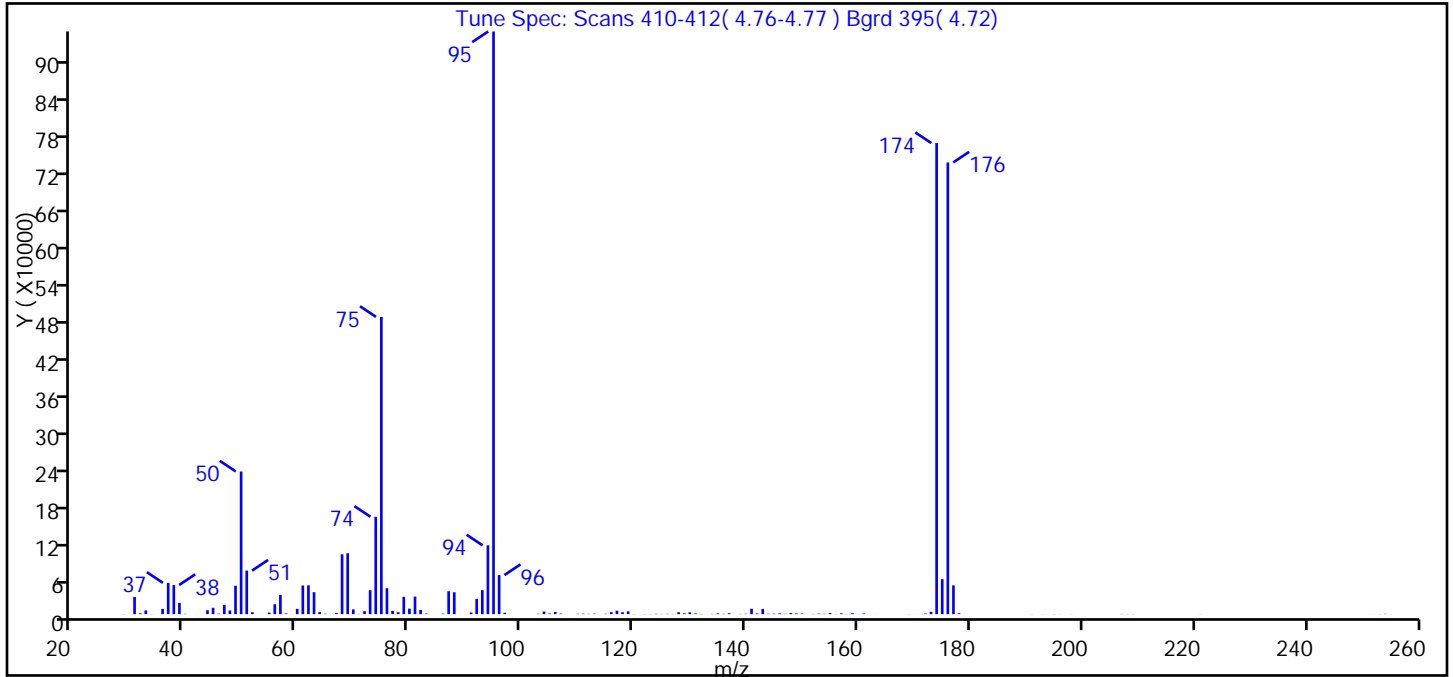
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
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\$ 133 BFB	95	4.764	4.764	0.0	0	1465817	NR	
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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-001.D
 Injection Date: 21-Jan-2014 17:09:30 Instrument ID: MR
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.50
75	30.00 - 60.00% of mass 95	51.00
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.40 (0.50)
174	50.00 - 120.00% of mass 95	80.80
175	5.00 - 9.00% of mass 174	6.00 (7.40)
176	95.00 - 101.00% of mass 174	77.50 (95.90)
177	5.00 - 9.00% of mass 176	4.90 (6.40)

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-001.D\MR_TO15.rslt\spectra.d
Injection Date: 21-Jan-2014 17:09:30
Spectrum: Tune Spec: Scans 410-412(4.76-4.77) Bgrd 395(4.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	209	69.00	99032	112.00	467	152.00	334
31.00	27936	70.00	7736	113.00	755	153.00	828
32.00	1392	71.00	342	115.00	586	154.00	536
33.00	6088	72.00	4899	116.00	3160	155.00	1738
34.00	201	73.00	38936	117.00	5601	156.00	175
36.00	8528	74.00	158336	118.00	3141	157.00	1385
37.00	50880	75.00	483264	119.00	4610	158.00	174
38.00	47384	76.00	42136	120.00	269	159.00	1491
39.00	18328	77.00	5125	122.00	253	160.00	91
40.00	535	78.00	3214	123.00	256	161.00	1019
42.00	51	79.00	28136	124.00	540	162.00	38
44.00	6349	80.00	8922	125.00	378	163.00	58
45.00	10403	81.00	28544	126.00	542	169.00	138
46.00	884	82.00	6747	127.00	233	170.00	46
47.00	15121	83.00	930	128.00	3086	171.00	64
48.00	5952	84.00	95	129.00	1421	172.00	1034
49.00	46192	86.00	834	130.00	3033	173.00	3809
50.00	231936	87.00	37224	131.00	1245	174.00	765888
51.00	70776	88.00	35600	132.00	222	175.00	56848
52.00	3066	90.00	62	133.00	63	176.00	734336
53.00	30	91.00	2694	134.00	369	177.00	46800
54.00	41	92.00	24832	135.00	1325	178.00	1417
55.00	2496	93.00	38984	136.00	448	191.00	194
56.00	16131	94.00	111816	137.00	1557	193.00	140
57.00	31128	95.00	947328	139.00	340	195.00	260
58.00	1129	96.00	63552	140.00	636	196.00	119
59.00	101	97.00	2249	141.00	8756	198.00	132
60.00	8617	98.00	41	142.00	1172	207.00	354
61.00	46592	103.00	625	143.00	8506	208.00	187
62.00	46816	104.00	4263	144.00	660	209.00	258
63.00	35728	105.00	1058	145.00	709	210.00	35
64.00	3364	106.00	3604	146.00	1283	221.00	111
65.00	702	107.00	897	147.00	457	252.00	63

Report Date: 23-Jan-2014 16:18:58

Chrom Revision: 2.1 15-Jan-2014 14:06:26

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-001.D\MR_TO15.rslt\spectra.d

Injection Date: 21-Jan-2014 17:09:30

Spectrum: Tune Spec: Scans 410-412(4.76-4.77) Bgrd 395(4.72)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
66.00	107	108.00	92	148.00	1903	253.00	189
67.00	1728	110.00	563	149.00	1086	254.00	503
68.00	97256	111.00	784	150.00	965	255.00	83

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-001.D

Injection Date: 21-Jan-2014 17:09:30

Instrument ID: MR

Operator ID: 403648

Lims ID: BFB

Lab Sample ID:

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

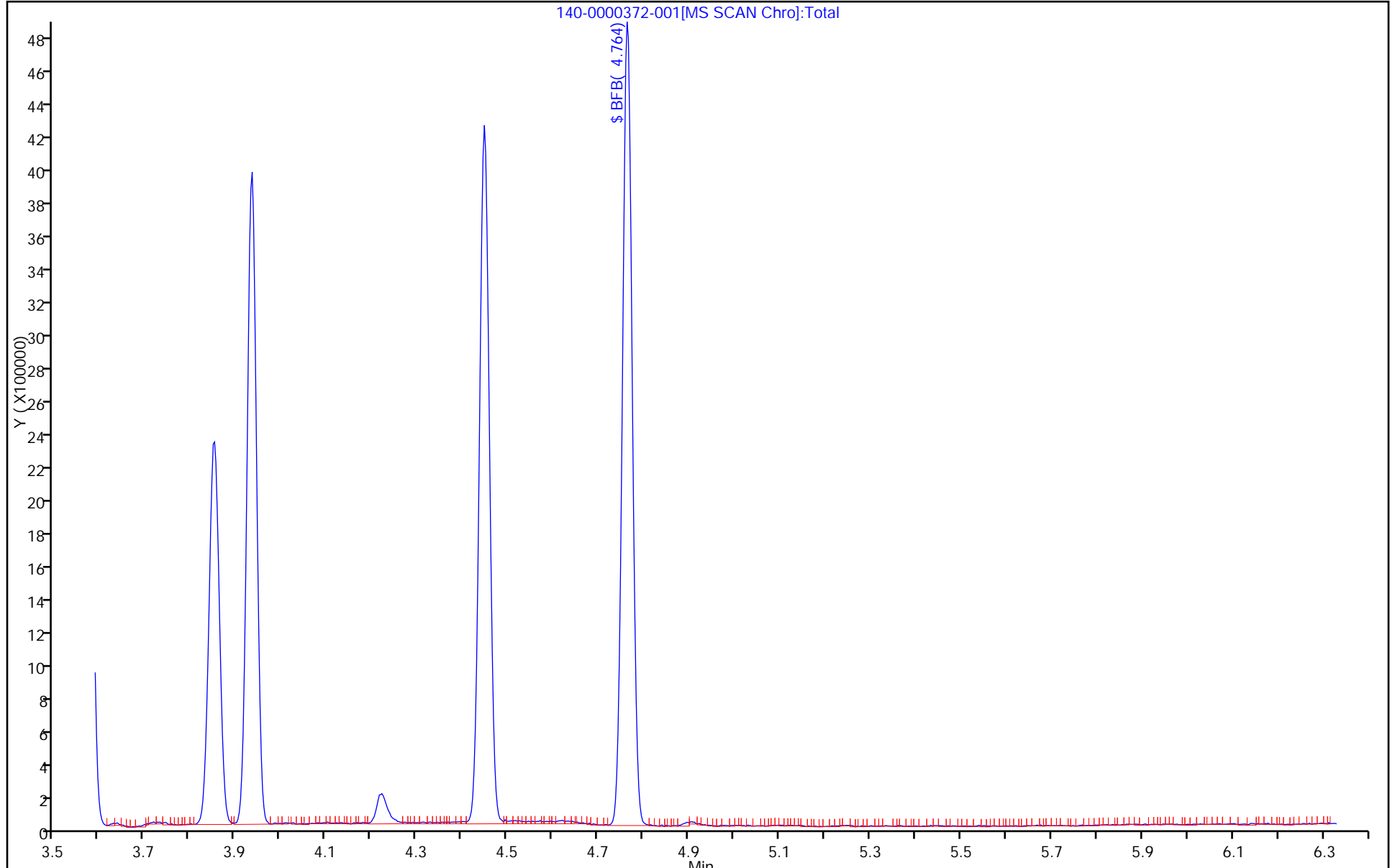
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\BFBFA24a.D
 Lims ID: bfb Lab Sample ID:
 Client ID:
 Sample Type: BFB
 Inject. Date: 24-Jan-2014 09:38:30 ALS Bottle#: 16 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: bfb,,3,,
 Misc. Info.: R012414,BFB,140-0000382-001 =R012414,BFB,140-0000382-001
 Operator ID: 7126 Instrument ID: MR
 Method: \\KNXCHROM\ChromData\MR\20140121-372.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Jan-2014 14:05:16 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

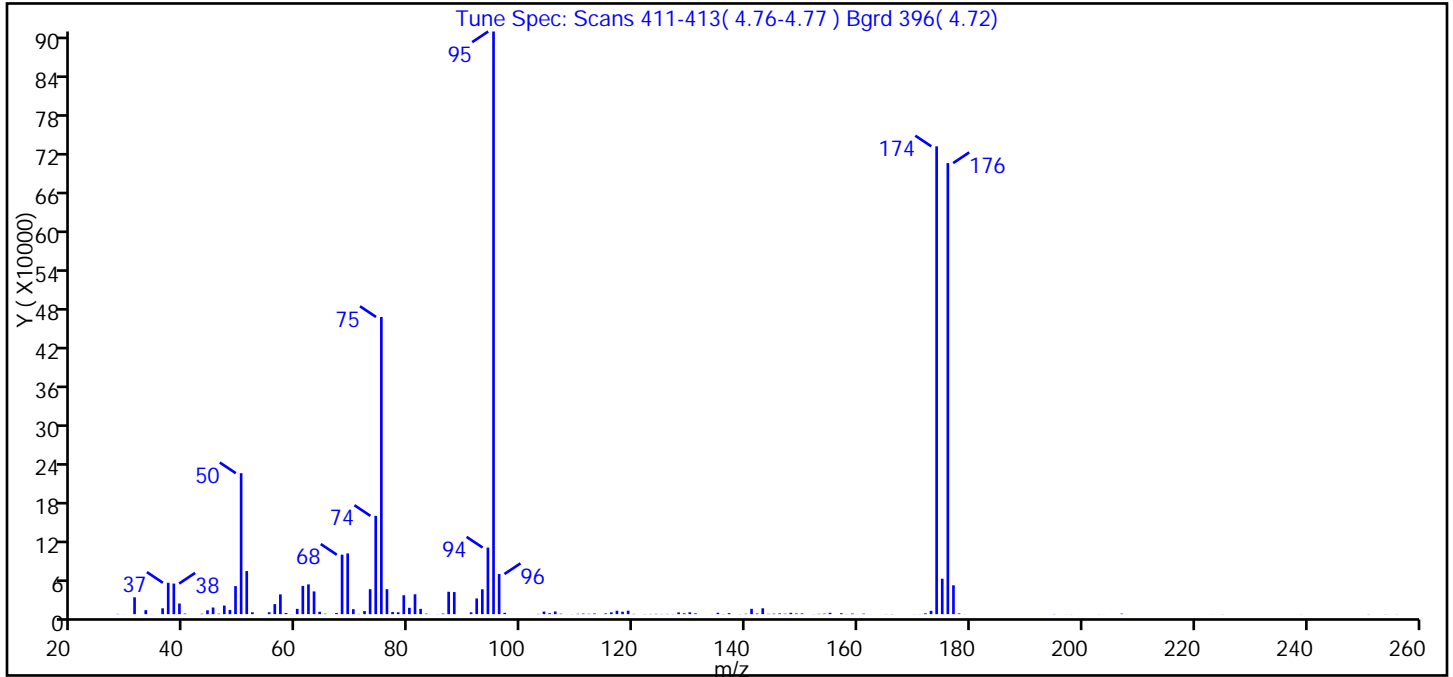
First Level Reviewer: barlozhetskayaa Date: 24-Jan-2014 14:05:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 133 BFB	95	4.767	4.764	0.003	0	1439226	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\RBFBFA24a.D
 Injection Date: 24-Jan-2014 09:38:30 Instrument ID: MR
 Lims ID: bfb Lab Sample ID:
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.20
75	30.00 - 60.00% of mass 95	51.00
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	80.30
175	5.00 - 9.00% of mass 174	6.10 (7.60)
176	95.00 - 101.00% of mass 174	77.40 (96.40)
177	5.00 - 9.00% of mass 176	5.00 (6.40)

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\BFBFA24a.D\MR_TO15.rslt\spectra.d
Injection Date: 24-Jan-2014 09:38:30
Spectrum: Tune Spec: Scans 411-413(4.76-4.77) Bgrd 396(4.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	421	70.00	7743	113.00	1025	155.00	2132
29.00	107	71.00	367	115.00	1150	157.00	1491
31.00	26216	72.00	4799	116.00	2839	158.00	189
33.00	6255	73.00	38912	117.00	5365	159.00	951
34.00	157	74.00	153216	118.00	3761	160.00	61
36.00	9100	75.00	463360	119.00	5342	161.00	793
37.00	48904	76.00	38944	120.00	391	162.00	49
38.00	47680	77.00	3383	122.00	209	163.00	18
39.00	16576	78.00	2937	123.00	353	164.00	45
40.00	890	79.00	29496	124.00	501	165.00	162
43.00	618	80.00	9875	125.00	320	166.00	237
44.00	5975	81.00	30976	126.00	394	170.00	128
45.00	10375	82.00	8211	127.00	293	171.00	149
46.00	742	83.00	803	128.00	2715	172.00	1340
47.00	13371	85.00	140	129.00	1378	173.00	5226
48.00	6481	86.00	930	130.00	2920	174.00	729408
49.00	43704	87.00	34896	131.00	1260	175.00	55232
50.00	219776	88.00	34416	132.00	30	176.00	703296
51.00	67144	91.00	2827	134.00	153	177.00	44984
52.00	2934	92.00	24456	135.00	2148	178.00	1134
53.00	23	93.00	38760	136.00	242	179.00	123
54.00	50	94.00	103824	137.00	1673	193.00	22
55.00	2909	95.00	908480	139.00	165	195.00	295
56.00	15668	96.00	62552	140.00	615	197.00	84
57.00	30784	97.00	2017	141.00	8275	198.00	139
58.00	1790	98.00	34	142.00	1078	203.00	115
59.00	172	99.00	77	143.00	9141	204.00	43
60.00	8253	103.00	414	144.00	526	207.00	762
61.00	44008	104.00	4022	145.00	792	208.00	84
62.00	46368	105.00	1491	146.00	1197	218.00	36
63.00	35456	106.00	4155	147.00	635	222.00	37
64.00	3707	107.00	719	148.00	2116	223.00	98
65.00	695	108.00	91	149.00	1083	225.00	161

Report Date: 24-Jan-2014 14:05:16

Chrom Revision: 2.1 15-Jan-2014 14:06:26

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\BFBFA24a.DMR_TO15.rslt\spectra.d

Injection Date: 24-Jan-2014 09:38:30

Spectrum: Tune Spec: Scans 411-413(4.76-4.77) Bgrd 396(4.72)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
66.00	109	109.00	170	150.00	1132	239.00	133
67.00	1828	110.00	523	152.00	161	251.00	205
68.00	92664	111.00	851	153.00	481	254.00	211
69.00	94680	112.00	590	154.00	777	256.00	143

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140121-372.b\RBFBFA24a.D

Injection Date: 24-Jan-2014 09:38:30

Instrument ID: MR

Operator ID: 7126

Lims ID: bfb

Lab Sample ID:

Worklist Smp#: 15

Client ID:

Purge Vol: 500.000 mL

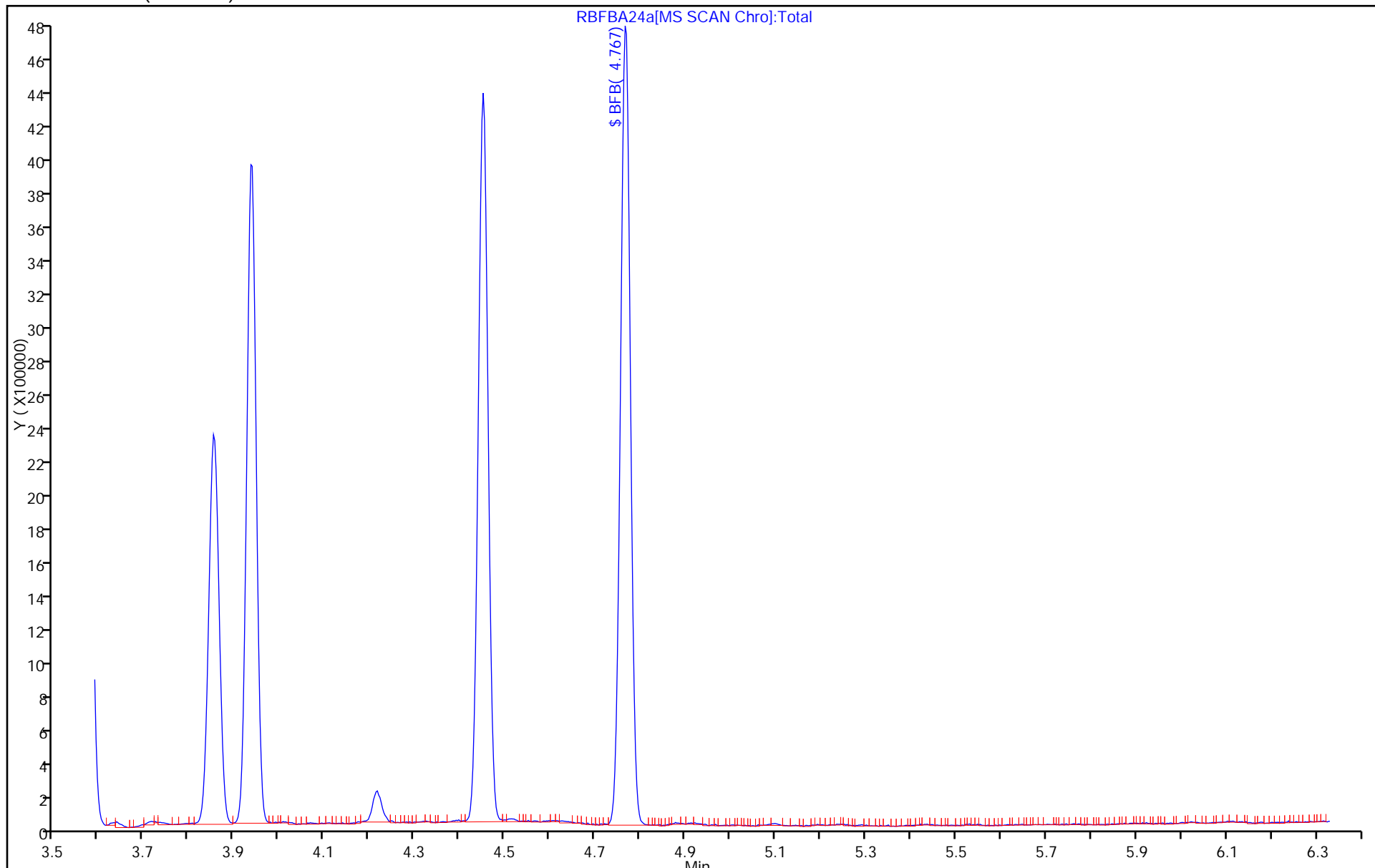
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RBFBFC20.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 20-Mar-2014 09:28:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: bfb,,3,,
 Misc. Info.: R032014,BFB,140-0000535-001
 Operator ID: 7126 Instrument ID: MR
 Method: \\KNXCHROM\ChromData\MR\20140319-535.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:40:49 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

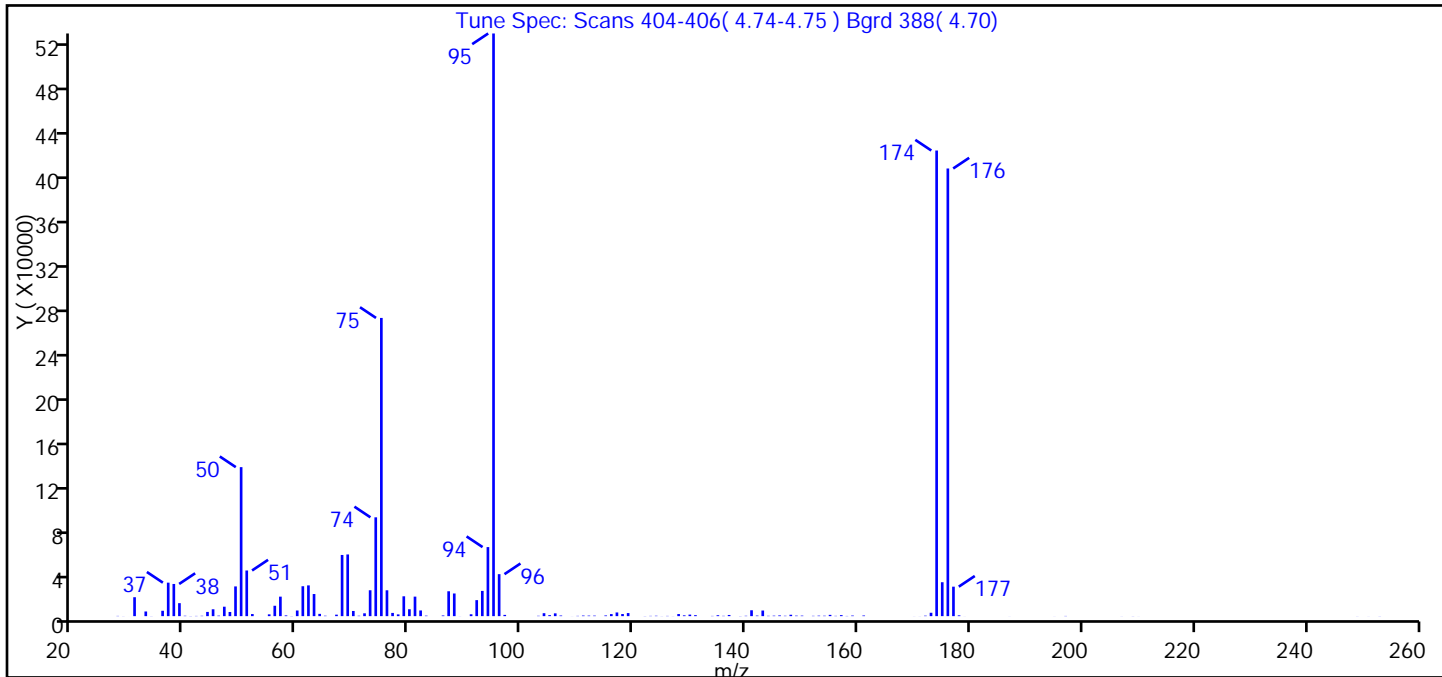
First Level Reviewer: tajh Date: 20-Mar-2014 14:40:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 133 BFB	95	4.746	4.746	0.0	0	850453	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RBFBFC20.D
 Injection Date: 20-Mar-2014 09:28:30 Instrument ID: MR
 Lims ID: BFB
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MR_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.60
75	30.00 - 60.00% of mass 95	51.20
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	79.90
175	5.00 - 9.00% of mass 174	5.80 (7.30)
176	95.00 - 101.00% of mass 174	76.80 (96.10)
177	5.00 - 9.00% of mass 176	5.10 (6.60)

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\BFBFC20.D\MR_TO15.rslt\spectra.d
 Injection Date: 20-Mar-2014 09:28:30
 Spectrum: Tune Spec: Scans 404-406(4.74-4.75) Bgrd 388(4.70)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 132

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	209	64.00	2056	106.00	2517	146.00	645
29.00	66	65.00	367	107.00	561	147.00	327
30.00	11	67.00	1339	109.00	40	148.00	1254
31.00	17056	68.00	55128	110.00	237	149.00	450
33.00	4202	69.00	55592	111.00	525	150.00	463
34.00	85	70.00	4658	112.00	475	152.00	276
36.00	4841	71.00	352	113.00	465	153.00	433
37.00	30176	72.00	2550	115.00	619	154.00	371
38.00	29000	73.00	23328	116.00	1839	155.00	1153
39.00	11700	74.00	89048	117.00	3321	156.00	251
40.00	336	75.00	268736	118.00	1894	157.00	911
41.00	123	76.00	23304	119.00	2765	158.00	177
42.00	199	77.00	2903	122.00	111	159.00	528
43.00	308	78.00	1573	123.00	233	161.00	572
44.00	3810	79.00	17888	124.00	341	170.00	49
45.00	6192	80.00	6214	125.00	71	171.00	52
46.00	445	81.00	17584	126.00	212	172.00	414
47.00	8504	82.00	5131	127.00	59	173.00	3039
48.00	3744	83.00	440	128.00	1888	174.00	419584
49.00	26784	86.00	600	129.00	717	175.00	30560
50.00	134272	87.00	22416	130.00	1379	176.00	403392
51.00	41136	88.00	20416	131.00	884	177.00	26560
52.00	1887	89.00	56	134.00	210	178.00	682
53.00	11	91.00	1675	135.00	817	179.00	37
55.00	1612	92.00	14429	136.00	277	187.00	40
56.00	9351	93.00	22736	137.00	1056	195.00	45
57.00	17568	94.00	62224	139.00	123	197.00	184
58.00	665	95.00	525056	140.00	311	207.00	57
59.00	123	96.00	37832	141.00	5301	209.00	83
60.00	5084	97.00	1130	142.00	501	210.00	36
61.00	26952	103.00	305	143.00	5069	249.00	60
62.00	27712	104.00	2653	144.00	289	251.00	41
63.00	19928	105.00	902	145.00	423	253.00	88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	209	64.00	2056	106.00	2517	146.00	645
29.00	66	65.00	367	107.00	561	147.00	327
30.00	11	67.00	1339	109.00	40	148.00	1254
31.00	17056	68.00	55128	110.00	237	149.00	450
33.00	4202	69.00	55592	111.00	525	150.00	463
34.00	85	70.00	4658	112.00	475	152.00	276
36.00	4841	71.00	352	113.00	465	153.00	433
37.00	30176	72.00	2550	115.00	619	154.00	371
38.00	29000	73.00	23328	116.00	1839	155.00	1153
39.00	11700	74.00	89048	117.00	3321	156.00	251
40.00	336	75.00	268736	118.00	1894	157.00	911
41.00	123	76.00	23304	119.00	2765	158.00	177
42.00	199	77.00	2903	122.00	111	159.00	528
43.00	308	78.00	1573	123.00	233	161.00	572
44.00	3810	79.00	17888	124.00	341	170.00	49
45.00	6192	80.00	6214	125.00	71	171.00	52
46.00	445	81.00	17584	126.00	212	172.00	414
47.00	8504	82.00	5131	127.00	59	173.00	3039
48.00	3744	83.00	440	128.00	1888	174.00	419584
49.00	26784	86.00	600	129.00	717	175.00	30560
50.00	134272	87.00	22416	130.00	1379	176.00	403392
51.00	41136	88.00	20416	131.00	884	177.00	26560
52.00	1887	89.00	56	134.00	210	178.00	682
53.00	11	91.00	1675	135.00	817	179.00	37
55.00	1612	92.00	14429	136.00	277	187.00	40
56.00	9351	93.00	22736	137.00	1056	195.00	45
57.00	17568	94.00	62224	139.00	123	197.00	184
58.00	665	95.00	525056	140.00	311	207.00	57
59.00	123	96.00	37832	141.00	5301	209.00	83
60.00	5084	97.00	1130	142.00	501	210.00	36
61.00	26952	103.00	305	143.00	5069	249.00	60
62.00	27712	104.00	2653	144.00	289	251.00	41
63.00	19928	105.00	902	145.00	423	253.00	88

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RBFBBC20.D

Injection Date: 20-Mar-2014 09:28:30

Instrument ID: MR

Operator ID: 7126

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

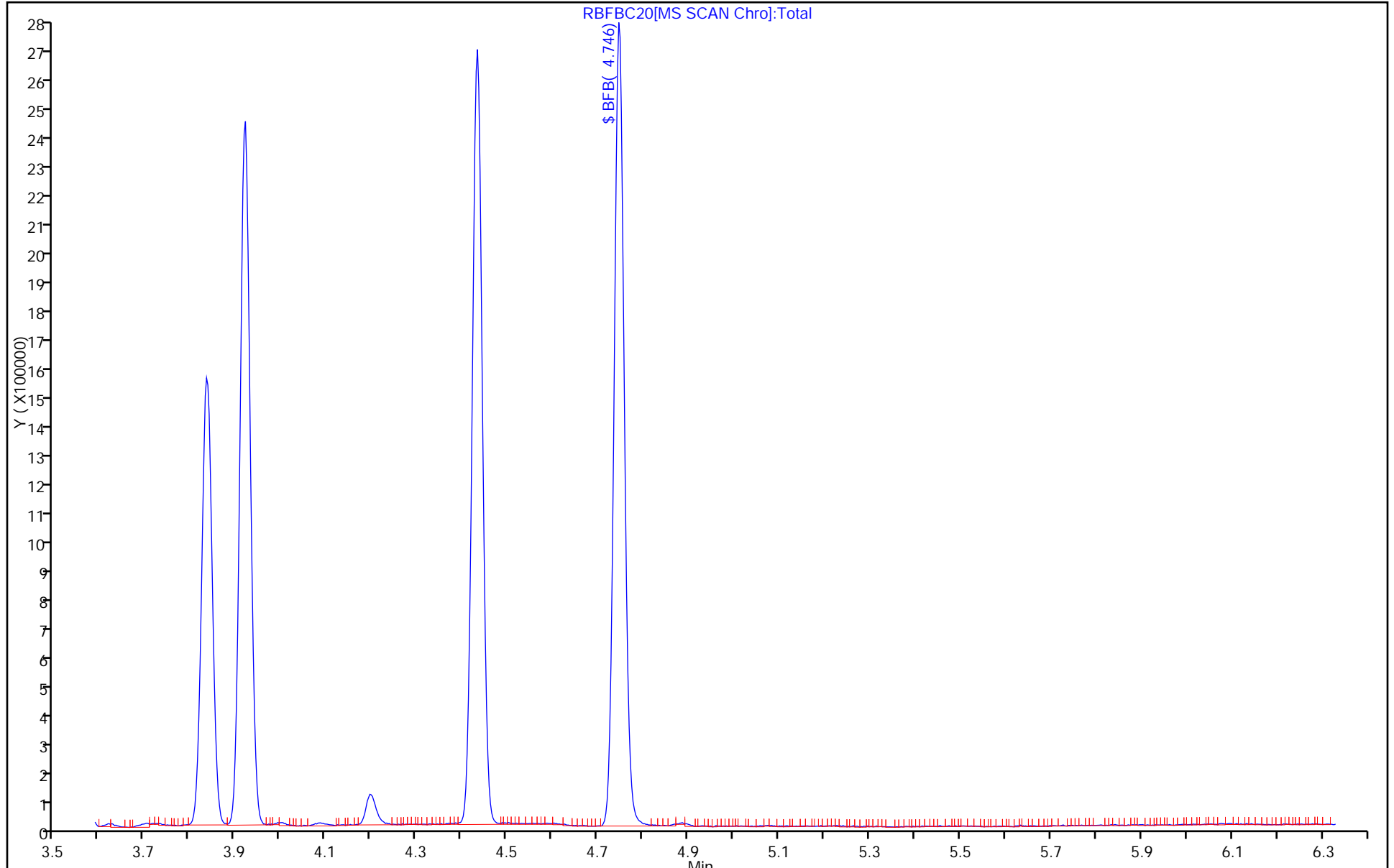
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-976/1004
 Matrix: Air Lab File ID: 140-1071-a-10-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/19/2014 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\140-1071-a-10-MB.d
 Lims ID: MB
 Client ID: 09635
 Sample Type: MB
 Inject. Date: 19-Mar-2014 13:17:30 ALS Bottle#: 16 Worklist Smp#: 1004
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09635 1L lotchk
 Misc. Info.: J031914,TO15,,140-0000532-004
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 17:19:32

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.385	-0.003	89	389292	4.00	
* 2 1,4-Difluorobenzene	114	11.534	11.542	-0.008	94	1813244	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.201	-0.003	86	1451706	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.820	-0.003	91	959597	3.74	
140 Tert-amyl methyl ether	73	11.534	11.467	0.067	1	19766	NR	
A 118 C6 Range	1	8.638	8.562 -	8.702	0	5644	0.004966	
A 122 Toluene Range	1	14.253	14.223 -	14.283	0	13695	0.0209	
A 123 C8 Range	1	14.931	14.877 -	14.985	0	43513	0.0428	
T 136 Methanol TIC	31	4.374	4.397	-0.026	89	5413	0.0556	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\140-1071-a-10-MB.d

Injection Date: 19-Mar-2014 13:17:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: MB

Worklist Smp#: 1004

Client ID: 09635

Purge Vol: 500.000 mL

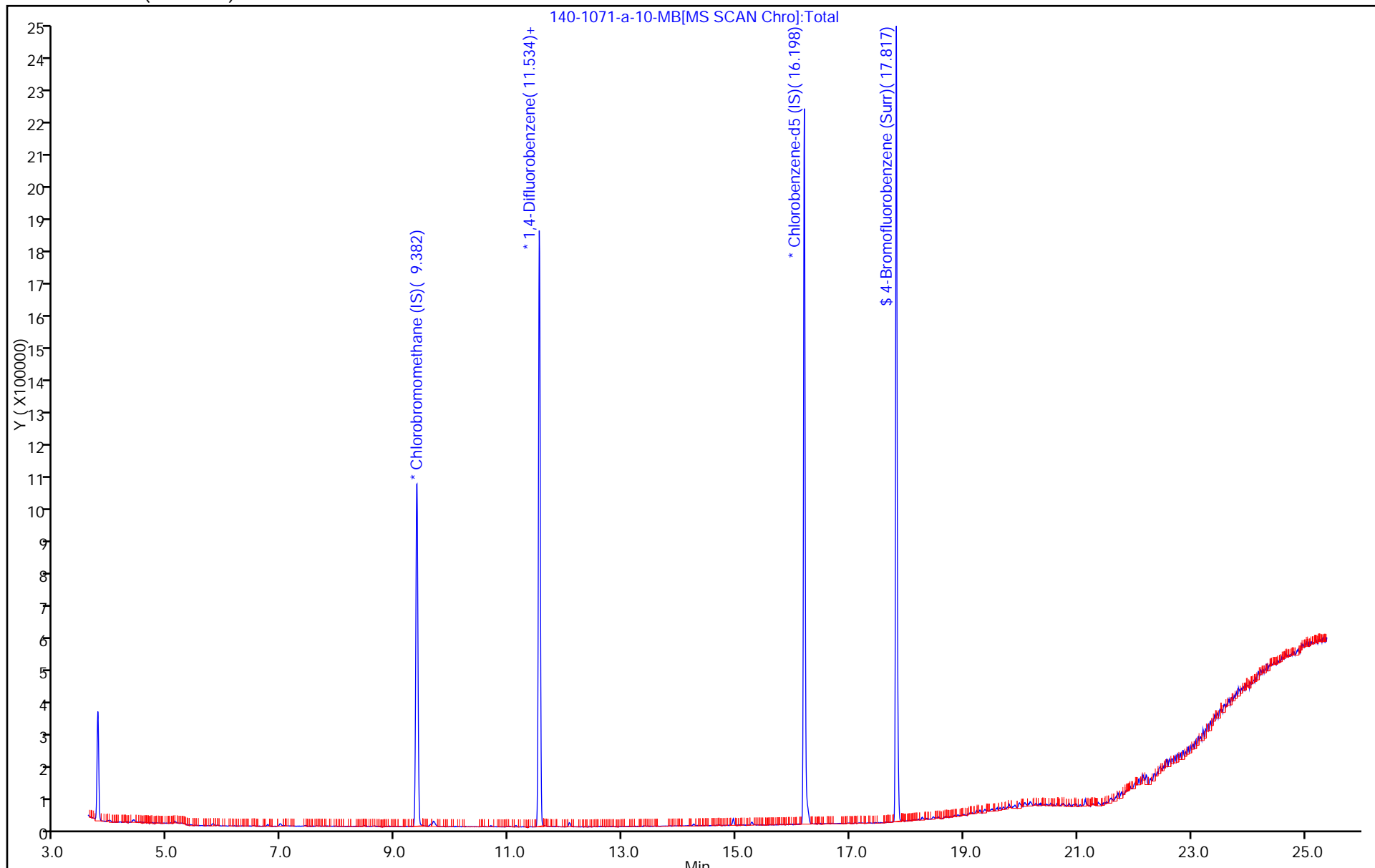
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-979/5
 Matrix: Air Lab File ID: 200MLBLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 13:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-979/5
 Matrix: Air Lab File ID: 200MLBLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 13:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-979/5
 Matrix: Air Lab File ID: 200MLBLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 13:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-979/5
 Matrix: Air Lab File ID: 200MLBLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 13:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-979/5
 Matrix: Air Lab File ID: 200MLBLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 13:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-979/5
 Matrix: Air Lab File ID: 200MLBLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/20/2014 13:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\200MLBLK.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Mar-2014 13:11:30 ALS Bottle#: 16 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 200ML BLANK
 Misc. Info.: R032014,TO15,140-0000535-005
 Operator ID: 7126 Instrument ID: MR
 Method: \\KNXCHROM\ChromData\MR\20140319-535.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 14:40:49 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: tajh Date: 20-Mar-2014 14:41:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.463	8.463	0.0	96	274446	4.00	
* 2 1,4-Difluorobenzene	114	10.755	10.760	-0.005	96	1434312	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.075	17.091	-0.016	90	1184898	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.830	19.846	-0.016	88	875986	3.75	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\200MLBLK.D

Injection Date: 20-Mar-2014 13:11:30

Instrument ID: MR

Operator ID: 7126

Lims ID: MB

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

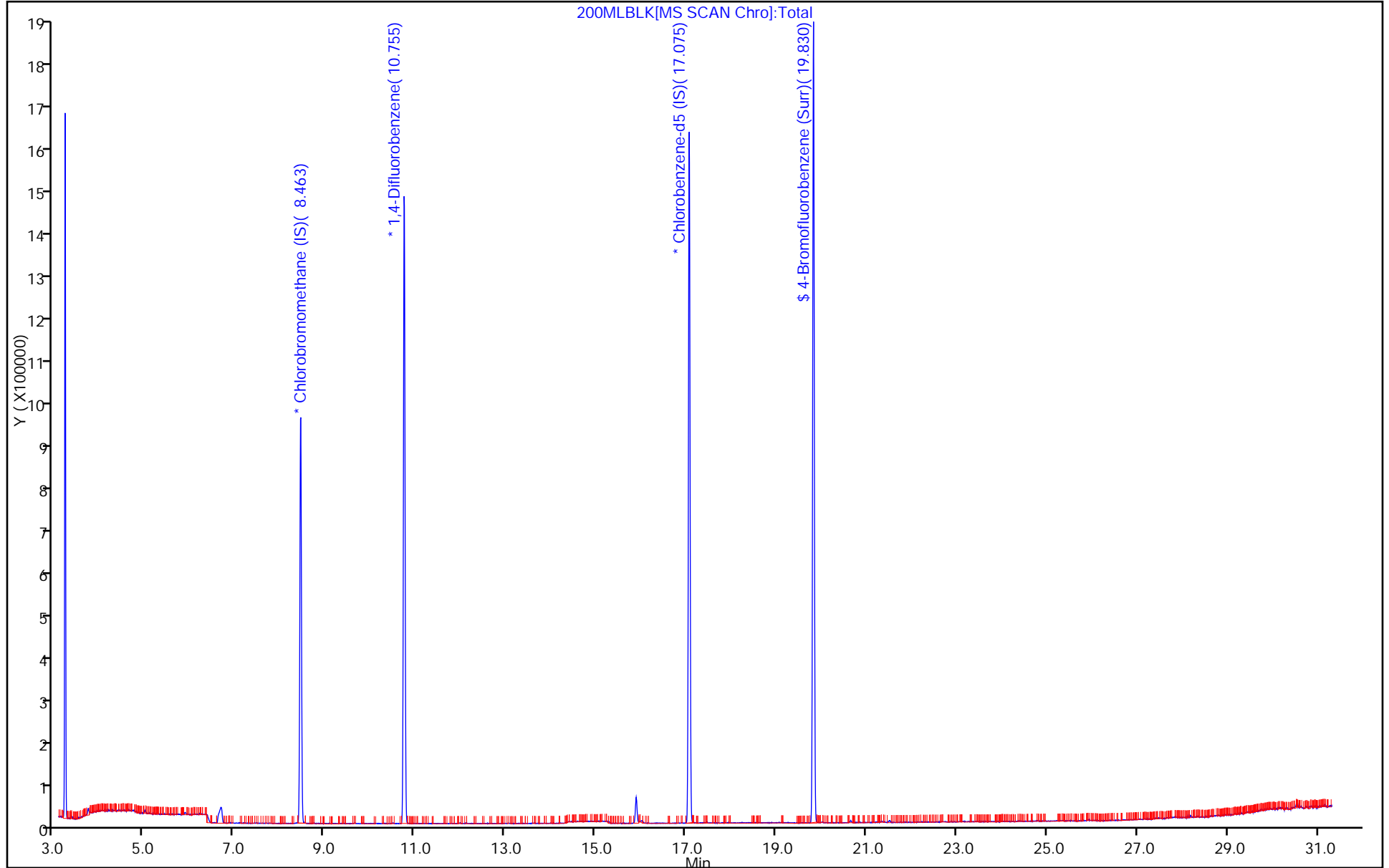
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-976/1002
 Matrix: Air Lab File ID: JCCVC19-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/19/2014 11:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.04		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.36		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.34		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.19		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.05		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.37		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	2.03		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	2.38		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.20		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.23		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	2.08		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.10		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	2.08		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.37		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.09		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	2.08		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	2.07		0.080	0.026
123-91-1	1,4-Dioxane	88.11	2.14		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	2.13		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	2.10		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	2.15		0.40	0.080
591-78-6	2-Hexanone	100.20	2.27		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.98		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.95		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.43		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.23		0.20	0.018
67-64-1	Acetone	58.08	1.42	J	2.0	0.56
71-43-2	Benzene	78.11	2.02		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.19		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.20		0.080	0.018
75-25-2	Bromoform	252.75	2.18		0.080	0.019
74-83-9	Bromomethane	94.94	1.97		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.06		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-976/1002
 Matrix: Air Lab File ID: JCCVC19-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/19/2014 11:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.15		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.12		0.080	0.020
75-00-3	Chloroethane	64.52	1.94		0.080	0.014
67-66-3	Chloroform	119.38	2.05		0.080	0.015
74-87-3	Chloromethane	50.49	2.05		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	2.15		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.07		0.080	0.030
110-82-7	Cyclohexane	84.16	2.16		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.18		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.16		0.080	0.027
64-17-5	Ethanol	46.07	10.6		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.41		0.080	0.027
142-82-5	Heptane	100.21	2.16		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.81		0.40	0.031
110-54-3	Hexane	86.17	1.84		0.20	0.013
496-11-7	Indane	118.18	2.35		0.080	0.080
95-13-6	Indene	116.16	2.42		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.99		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.26		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.20		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.65		0.080	0.048
91-20-3	Naphthalene	128.17	2.05		0.20	0.036
95-47-6	o-Xylene	106.17	2.36		0.080	0.024
115-07-1	Propene	42.08	2.03		0.20	0.031
100-42-5	Styrene	104.15	2.40		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.19		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	2.20		0.40	0.025
110-02-1	Thiophene	84.14	2.11		0.080	0.080
108-88-3	Toluene	92.14	2.29		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.96		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.25		0.080	0.019
79-01-6	Trichloroethene	131.39	2.21		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.10		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.05		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-976/1002
 Matrix: Air Lab File ID: JCCVC19-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/19/2014 11:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 976 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Mar-2014 11:06:30 ALS Bottle#: 9 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031914,TO15,,140-0000532-002
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140318-532.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Mar-2014 17:19:16 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: barlozhetskayaa

Date: 19-Mar-2014 17:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.385	0.0	91	344423	4.00	
* 2 1,4-Difluorobenzene	114	11.542	11.542	0.0	93	1458024	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.201	16.201	0.0	86	1214604	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.820	0.0	91	840735	3.91	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	72746	2.05	
7 Propene	41	3.973	3.973	0.0	99	214420	2.03	
8 Dichlorodifluoromethane	85	4.032	4.032	0.0	100	736627	2.16	
9 Chloromethane	52	4.231	4.231	0.0	98	79325	2.05	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	575045	2.23	
11 Acetaldehyde	44	4.398	4.398	0.0	99	284056	8.36	
12 Vinyl chloride	62	4.420	4.420	0.0	99	261396	2.05	
14 Butadiene	54	4.516	4.516	0.0	91	185801	2.09	
13 Butane	43	4.516	4.516	0.0	89	360613	1.98	
15 Bromomethane	94	4.871	4.871	0.0	99	256321	1.97	
16 Chloroethane	64	5.022	5.022	0.0	99	113716	1.94	
17 Ethanol	31	5.119	5.119	0.0	95	293298	10.6	
18 Vinyl bromide	106	5.356	5.356	0.0	97	239065	2.16	
19 2-Methylbutane	43	5.409	5.409	0.0	92	289633	1.98	
20 Trichlorofluoromethane	101	5.646	5.646	0.0	98	630457	2.10	
21 Acrolein	56	5.646	5.646	0.0	24	46081	1.64	
22 Acetonitrile	40	5.716	5.716	0.0	99	61423	1.98	
23 Acetone	58	5.770	5.770	0.0	91	69368	1.42	
24 Isopropyl alcohol	45	5.850	5.850	0.0	97	257858	1.99	
25 Pentane	72	5.883	5.883	0.0	97	37549	2.03	
26 Ethyl ether	31	6.050	6.050	0.0	93	179592	1.99	
27 1,1-Dichloroethene	96	6.394	6.394	0.0	97	229123	2.37	
28 2-Methyl-2-propanol	59	6.475	6.475	0.0	95	282847	1.78	
29 Acrylonitrile	53	6.491	6.491	0.0	94	106371	2.08	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.582	0.0	95	486321	2.34	
31 Methylene Chloride	84	6.754	6.754	0.0	95	202657	2.20	
32 3-Chloro-1-propene	39	6.776	6.776	0.0	92	172521	1.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.937	6.937	0.0	100	668634	2.06	
34 trans-1,2-Dichloroethene	96	7.604	7.604	0.0	99	228792	1.96	
35 2-Methylpentane	43	7.626	7.626	0.0	95	517789	1.95	
36 Methyl tert-butyl ether	73	7.728	7.728	0.0	96	397456	2.26	
37 1,1-Dichloroethane	63	8.035	8.035	0.0	100	372467	2.05	
38 Vinyl acetate	43	8.131	8.131	0.0	100	342229	2.15	
39 2-Butanone (MEK)	72	8.589	8.589	0.0	97	69988	2.15	
40 Hexane	56	8.637	8.637	0.0	90	170354	1.84	
41 cis-1,2-Dichloroethene	96	9.046	9.046	0.0	94	213783	2.15	
42 Ethyl acetate	43	9.218	9.218	0.0	97	323359	2.28	
43 Chloroform	83	9.396	9.396	0.0	97	411011	2.05	
44 Tetrahydrofuran	42	9.799	9.799	0.0	94	175791	2.20	
45 1,1,1-Trichloroethane	97	10.439	10.439	0.0	96	426625	2.04	
46 1,2-Dichloroethane	62	10.536	10.536	0.0	95	237399	2.10	
47 n-Butanol	31	10.945	10.945	0.0	91	63087	1.98	
48 Benzene	78	11.026	11.026	0.0	96	504745	2.02	
49 Cyclohexane	69	11.031	11.031	0.0	90	106529	2.16	
50 Carbon tetrachloride	117	11.047	11.047	0.0	94	444605	2.15	
51 2,3-Dimethylpentane	71	11.139	11.139	0.0	92	123790	2.10	
52 Thiophene	84	11.289	11.289	0.0	96	325316	2.11	
53 Isooctane	57	11.763	11.763	0.0	98	911737	2.13	
54 n-Heptane	71	12.123	12.123	0.0	92	191345	2.16	
55 1,2-Dichloropropane	63	12.204	12.204	0.0	89	175480	2.08	
56 Trichloroethene	130	12.241	12.241	0.0	93	268386	2.21	
57 Dibromomethane	93	12.322	12.322	0.0	92	232580	2.09	
59 Dichlorobromomethane	83	12.462	12.462	0.0	99	388005	2.20	
58 1,4-Dioxane	88	12.467	12.467	0.0	87	64853	2.14	
60 Methyl methacrylate	41	12.537	12.537	0.0	91	183229	2.42	
61 Methylcyclohexane	83	13.005	13.005	0.0	96	352698	2.09	
62 4-Methyl-2-pentanone (MIBK)	43	13.371	13.371	0.0	98	341467	2.23	
63 cis-1,3-Dichloropropene	75	13.441	13.441	0.0	95	248049	2.07	
64 trans-1,3-Dichloropropene	75	14.119	14.119	0.0	99	226691	2.25	
65 Toluene	91	14.253	14.253	0.0	93	515114	2.29	
66 1,1,2-Trichloroethane	83	14.318	14.318	0.0	97	156049	2.19	
67 2-Methylthiophene	97	14.404	14.404	0.0	98	447018	2.21	
68 3-Methylthiophene	97	14.603	14.603	0.0	99	449786	2.21	
69 2-Hexanone	58	14.684	14.684	0.0	93	167394	2.27	
70 n-Octane	85	14.920	14.920	0.0	94	185975	2.25	
71 Chlorodibromomethane	129	15.022	15.022	0.0	96	343611	2.18	
72 Ethylene Dibromide	107	15.308	15.308	0.0	98	269243	2.20	
73 Tetrachloroethene	129	15.383	15.383	0.0	92	230370	2.19	
75 Chlorobenzene	112	16.249	16.249	0.0	92	408671	2.12	
74 2,3-Dimethylheptane	43	16.254	16.254	0.0	95	534471	2.15	
76 Ethylbenzene	91	16.529	16.529	0.0	98	600847	2.41	
77 2-Ethylthiophene	97	16.631	16.631	0.0	97	457666	2.35	
78 m-Xylene & p-Xylene	91	16.685	16.685	0.0	99	934156	4.65	
79 n-Nonane	57	17.088	17.088	0.0	93	330066	2.11	
81 Bromoform	173	17.142	17.142	0.0	94	271353	2.18	
80 Styrene	104	17.147	17.147	0.0	98	330409	2.40	
82 o-Xylene	91	17.212	17.212	0.0	96	480233	2.36	
83 1,1,2,2-Tetrachloroethane	83	17.524	17.524	0.0	99	392126	2.36	
84 1,2,3-Trichloropropane	110	17.680	17.680	0.0	97	95453	2.39	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.788	17.788	0.0	97	678172	2.34	
86 N-Propylbenzene	120	18.304	18.304	0.0	98	181789	2.38	
87 2-Chlorotoluene	126	18.352	18.352	0.0	97	177346	2.22	
88 4-Ethyltoluene	105	18.444	18.444	0.0	98	658282	2.43	
89 1,3,5-Trimethylbenzene	120	18.514	18.514	0.0	92	322460	2.37	
90 Alpha Methyl Styrene	118	18.740	18.740	0.0	85	238891	2.45	
91 n-Decane	57	18.783	18.783	0.0	89	365558	2.19	
92 tert-Butylbenzene	119	18.928	18.928	0.0	87	615274	2.32	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	94	560823	2.38	
94 sec-Butylbenzene	105	19.192	19.192	0.0	98	810809	2.34	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	322230	2.08	
96 Benzyl chloride	91	19.278	19.278	0.0	98	386598	2.19	
97 1,4-Dichlorobenzene	146	19.294	19.294	0.0	93	299344	2.07	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	645024	2.32	
99 1,2,3-Trimethylbenzene	105	19.401	19.401	0.0	98	466136	2.43	
100 Butylcyclohexane	83	19.455	19.455	0.0	93	469702	2.14	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	506967	2.35	
102 1,2-Dichlorobenzene	146	19.649	19.649	0.0	94	315972	2.08	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	563298	2.19	
104 Indene	116	19.773	19.773	0.0	86	454828	2.42	
105 Undecane	57	20.063	20.063	0.0	96	373317	2.23	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.133	20.133	0.0	97	567986	2.18	
108 1,2,4,5-Tetramethylbenzene	119	20.520	20.520	0.0	97	615899	2.36	
107 1,2,3,5-Tetramethylbenzene	119	20.574	20.574	0.0	95	374139	2.19	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	97	479119	2.27	
110 Dodecane	57	21.139	21.139	0.0	95	367147	2.11	
111 1,2,4-Trichlorobenzene	180	21.370	21.370	0.0	94	136711	2.03	
112 Naphthalene	128	21.521	21.521	0.0	99	390899	2.05	
113 Benzo(b)thiophene	134	21.623	21.623	0.0	99	255454	1.97	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	84	249776	1.81	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	95	172407	1.98	
116 2-Methylnaphthalene	142	22.441	22.441	0.0	99	171218	8.42	
117 1-Methylnaphthalene	142	22.575	22.575	0.0	96	182975	8.73	
139 Isopropyl ether	45	8.782	8.782	0.0	97	534408	NR	
142 Tert-butyl ethyl ether	59	9.476	9.476	0.0	96	472675	NR	
140 Tert-amyl methyl ether	73	11.467	11.467	0.0	93	444680	NR	
A 118 C6 Range	1	8.632	8.562 - 8.702		0	1680235	1.67	
A 122 Toluene Range	1	14.253	14.223 - 14.283		0	1227464	2.24	
A 123 C8 Range	1	14.921	14.877 - 14.985		0	1788334	2.10	
S 124 Xylenes, Total	100				0		7.01	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140318-532.b\JCCVC19-LCS.d

Injection Date: 19-Mar-2014 11:06:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

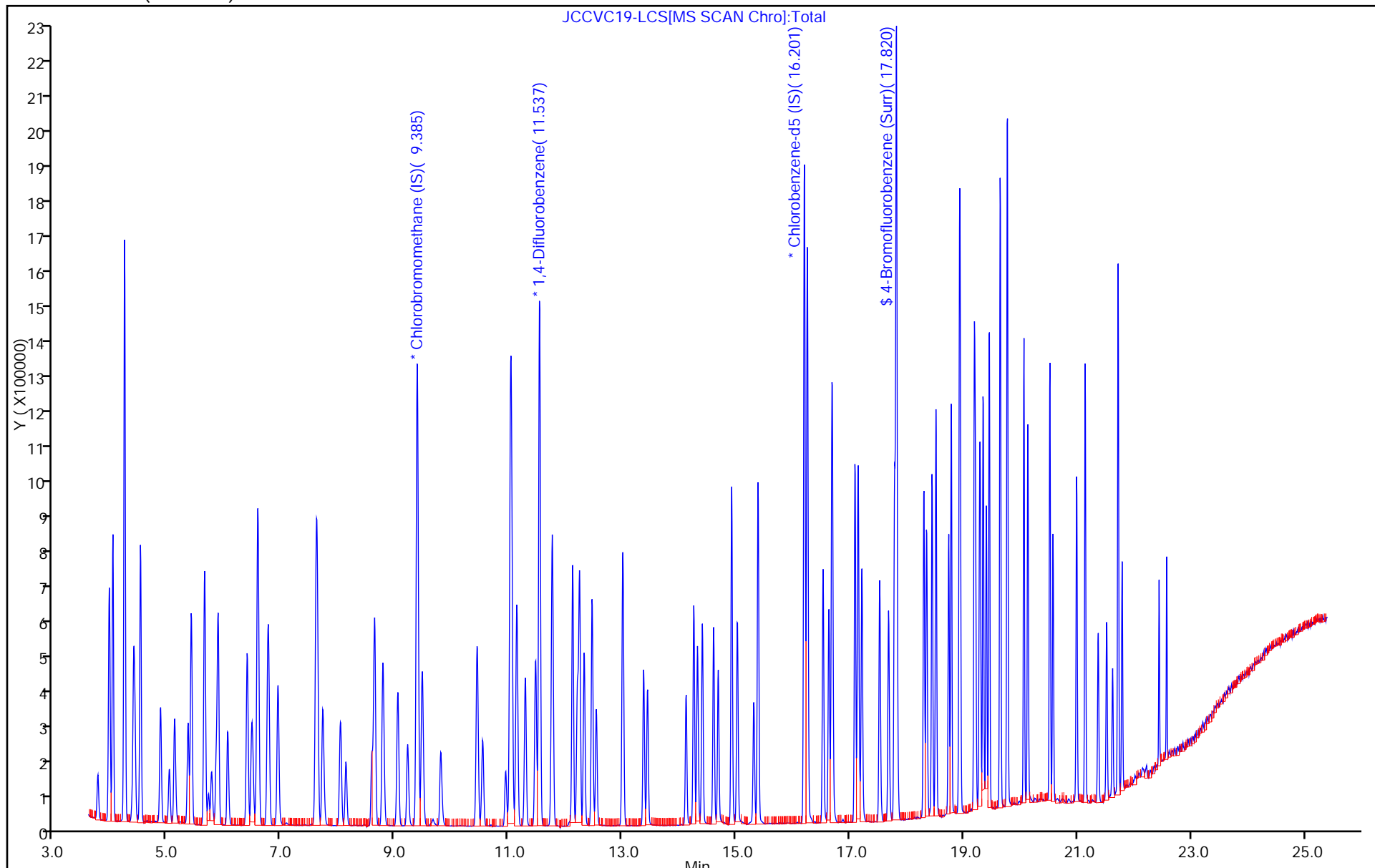
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-979/1002
 Matrix: Air Lab File ID: RCCVC20-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/20/2014 09:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	2.13		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.10		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.39		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	2.11		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	2.22		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.36		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.55		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	1.98		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	2.15		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.09		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.86		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	2.12		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	2.15		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	2.07		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.25		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.93		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.93		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.81		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	2.06		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	2.13		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.64		0.40	0.080
591-78-6	2-Hexanone	100.20	1.65		0.20	0.023
78-78-4	2-Methylbutane	72.15	2.17		0.20	0.012
107-83-5	2-Methylpentane	86.18	2.15		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	2.00		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.92		0.20	0.018
67-64-1	Acetone	58.08	ND		2.0	0.56
71-43-2	Benzene	78.11	2.12		0.080	0.022
100-44-7	Benzyl chloride	126.58	2.01		0.16	0.031
75-27-4	Bromodichloromethane	163.83	2.06		0.080	0.018
75-25-2	Bromoform	252.75	2.11		0.080	0.019
74-83-9	Bromomethane	94.94	1.98		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.10		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-979/1002
 Matrix: Air Lab File ID: RCCVC20-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/20/2014 09:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	2.09		0.080	0.015
108-90-7	Chlorobenzene	112.56	2.11		0.080	0.020
75-00-3	Chloroethane	64.52	2.06		0.080	0.014
67-66-3	Chloroform	119.38	2.18		0.080	0.015
74-87-3	Chloromethane	50.49	2.25		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	2.27		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	2.20		0.080	0.030
110-82-7	Cyclohexane	84.16	1.96		0.20	0.016
124-48-1	Dibromochloromethane	208.29	2.15		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.23		0.080	0.027
64-17-5	Ethanol	46.07	9.99		0.80	0.80
100-41-4	Ethylbenzene	106.17	2.18		0.080	0.027
142-82-5	Heptane	100.21	2.02		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.46		0.40	0.031
110-54-3	Hexane	86.17	2.02		0.20	0.013
496-11-7	Indane	118.18	2.01		0.080	0.080
95-13-6	Indene	116.16	1.98		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.82		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	2.02		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.25		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	4.27		0.080	0.048
91-20-3	Naphthalene	128.17	1.59		0.20	0.036
95-47-6	o-Xylene	106.17	2.13		0.080	0.024
115-07-1	Propene	42.08	2.02		0.20	0.031
100-42-5	Styrene	104.15	2.29		0.080	0.023
127-18-4	Tetrachloroethene	165.83	2.08		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	2.09		0.40	0.025
110-02-1	Thiophene	84.14	2.14		0.080	0.080
108-88-3	Toluene	92.14	2.14		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	2.03		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	2.18		0.080	0.019
79-01-6	Trichloroethene	131.39	2.10		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	1.97		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.23		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-979/1002
 Matrix: Air Lab File ID: RCCVC20-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/20/2014 09:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 979 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RCCVC20-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Mar-2014 09:54:30 ALS Bottle#: 8 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis,,2,6,,
 Misc. Info.: R032014,TO15,140-0000535-002
 Operator ID: 7126 Instrument ID: MR
 Method: \\KNXCHROM\ChromData\MR\20140319-535.b\MR_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Mar-2014 15:54:16 Calib Date: 22-Jan-2014 00:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MR\20140121-372.b\140-0000372-010.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: tajh

Date: 20-Mar-2014 14:40:34

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.463	8.463	0.0	95	273173	4.00	
* 2 1,4-Difluorobenzene	114	10.760	10.760	0.0	96	1437109	4.00	
* 3 Chlorobenzene-d5 (IS)	117	17.091	17.091	0.0	88	1222152	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	19.846	19.846	0.0	89	925408	3.84	
6 Chlorodifluoromethane	67	3.383	3.383	0.0	95	62165	2.12	
7 Propene	41	3.394	3.394	0.0	99	231686	2.02	
8 Dichlorodifluoromethane	85	3.437	3.437	0.0	100	612878	2.23	
9 Chloromethane	52	3.594	3.594	0.0	99	91248	2.25	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	3.605	3.605	0.0	95	411453	2.09	
11 Acetaldehyde	44	3.734	3.734	0.0	98	583298	4.67	
12 Vinyl chloride	62	3.756	3.756	0.0	99	276219	2.23	
14 Butadiene	54	3.836	3.836	0.0	96	234711	2.25	
13 Butane	43	3.842	3.842	0.0	89	469109	2.27	
15 Bromomethane	94	4.144	4.144	0.0	99	205643	1.98	
16 Chloroethane	64	4.279	4.279	0.0	97	128910	2.06	
17 Ethanol	31	4.386	4.386	0.0	94	461088	10.0	
18 Vinyl bromide	106	4.581	4.581	0.0	97	213253	2.12	
19 2-Methylbutane	43	4.640	4.640	0.0	93	341174	2.17	
21 Acrolein	56	4.839	4.839	0.0	93	82040	1.47	
20 Trichlorofluoromethane	101	4.850	4.850	0.0	98	532444	1.97	
22 Acetonitrile	40	4.899	4.899	0.0	99	111890	2.13	
25 Isopropyl alcohol	45	5.066	5.066	0.0	74	385898	1.82	
24 Pentane	72	5.082	5.082	0.0	96	43976	1.98	
26 Ethyl ether	31	5.238	5.238	0.0	93	297920	2.02	
27 1,1-Dichloroethene	96	5.557	5.557	0.0	95	205932	2.36	
28 Acrylonitrile	53	5.632	5.632	0.0	95	208340	2.14	
29 2-Methyl-2-propanol	59	5.659	5.659	0.0	96	409385	1.90	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	5.751	5.751	0.0	95	437028	2.39	
31 Methylene Chloride	84	5.896	5.896	0.0	93	192969	2.25	
32 3-Chloro-1-propene	39	5.918	5.918	0.0	93	211212	2.10	
33 Carbon disulfide	76	6.058	6.058	0.0	100	625147	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
34 trans-1,2-Dichloroethene	96	6.721	6.721	0.0	95	218846	2.03	
35 2-Methylpentane	43	6.770	6.770	0.0	97	649579	2.15	
36 Methyl tert-butyl ether	73	6.862	6.862	0.0	95	590217	2.02	
37 1,1-Dichloroethane	63	7.137	7.137	0.0	99	430869	2.22	
38 Vinyl acetate	43	7.255	7.255	0.0	100	689463	2.18	
39 2-Butanone (MEK)	72	7.687	7.687	0.0	98	102921	1.64	
40 Hexane	56	7.773	7.773	0.0	90	218157	2.02	
41 cis-1,2-Dichloroethene	96	8.134	8.134	0.0	97	225940	2.27	
42 Ethyl acetate	43	8.334	8.334	0.0	98	611884	2.13	
43 Chloroform	83	8.490	8.490	0.0	95	443762	2.18	
44 Tetrahydrofuran	42	8.889	8.889	0.0	94	326064	2.09	
45 1,1,1-Trichloroethane	97	9.542	9.542	0.0	96	422257	2.13	
46 1,2-Dichloroethane	62	9.622	9.622	0.0	94	334985	2.12	
49 n-Butanol	31	10.140	10.140	0.0	57	77774	1.69	
47 Benzene	78	10.156	10.156	0.0	97	671657	2.12	
48 Cyclohexane	69	10.178	10.178	0.0	92	105106	1.96	
50 Carbon tetrachloride	117	10.194	10.194	0.0	95	442302	2.09	
51 2,3-Dimethylpentane	71	10.334	10.334	0.0	91	146820	2.13	
52 Thiophene	84	10.442	10.442	0.0	97	407381	2.14	
53 Isooctane	57	11.051	11.051	0.0	98	1331767	2.06	
54 n-Heptane	71	11.494	11.494	0.0	95	244304	2.02	
55 1,2-Dichloropropane	63	11.510	11.510	0.0	84	277252	2.15	
56 Trichloroethene	130	11.574	11.574	0.0	95	285329	2.10	
57 Dibromomethane	93	11.639	11.639	0.0	94	251845	2.02	
58 Dichlorobromomethane	83	11.828	11.828	0.0	97	464274	2.06	
59 1,4-Dioxane	88	11.844	11.844	0.0	94	90363	1.81	
60 Methyl methacrylate	41	11.979	11.979	0.0	95	369785	1.98	
61 Methylcyclohexane	83	12.534	12.534	0.0	90	410688	2.10	
62 4-Methyl-2-pentanone (MIBK)	43	13.036	13.036	0.0	97	641667	1.92	
63 cis-1,3-Dichloropropene	75	13.095	13.095	0.0	97	377251	2.20	
64 trans-1,3-Dichloropropene	75	14.023	14.023	0.0	97	379347	2.18	
65 Toluene	91	14.201	14.201	0.0	93	809446	2.14	
66 1,1,2-Trichloroethane	83	14.281	14.281	0.0	97	234593	2.11	
67 2-Methylthiophene	97	14.400	14.400	0.0	98	690314	2.15	
68 3-Methylthiophene	97	14.686	14.686	0.0	100	705256	2.15	
69 2-Hexanone	58	14.864	14.864	0.0	91	261315	1.65	
71 Chlorodibromomethane	129	15.263	15.263	0.0	95	439098	2.15	
70 n-Octane	85	15.268	15.268	0.0	97	269472	1.97	
72 Ethylene Dibromide	107	15.673	15.673	0.0	98	420592	2.15	
73 Tetrachloroethene	129	15.834	15.834	0.0	95	268454	2.08	
74 Chlorobenzene	112	17.166	17.166	0.0	91	639475	2.11	
75 2,3-Dimethylheptane	43	17.328	17.328	0.0	95	999090	2.14	
76 Ethylbenzene	91	17.673	17.673	0.0	98	1025005	2.18	
77 2-Ethylthiophene	97	17.830	17.830	0.0	98	783888	2.19	
78 m-Xylene & p-Xylene	91	17.948	17.948	0.0	100	1596316	4.27	
79 Bromoform	173	18.595	18.595	0.0	95	409884	2.11	
80 Styrene	104	18.709	18.709	0.0	97	601913	2.29	
81 n-Nonane	57	18.779	18.779	0.0	96	654692	2.06	
82 o-Xylene	91	18.811	18.811	0.0	97	821856	2.13	
83 1,1,2,2-Tetrachloroethane	83	19.345	19.345	0.0	99	611312	2.10	
84 1,2,3-Trichloropropane	110	19.609	19.609	0.0	94	178451	2.00	
85 Isopropylbenzene	105	19.841	19.841	0.0	97	1193708	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
86 N-Propylbenzene	120	20.806	20.806	0.0	97	328648	2.04	
87 2-Chlorotoluene	126	20.828	20.828	0.0	93	292220	2.10	
88 4-Ethyltoluene	105	21.092	21.092	0.0	99	1215666	2.00	
89 1,3,5-Trimethylbenzene	120	21.248	21.248	0.0	92	558945	2.07	
90 Alpha Methyl Styrene	118	21.680	21.680	0.0	85	439672	2.04	
91 n-Decane	57	21.960	21.960	0.0	87	824782	1.88	
92 tert-Butylbenzene	119	22.052	22.052	0.0	88	1033715	1.96	
93 1,2,4-Trimethylbenzene	105	22.084	22.084	0.0	97	993324	1.98	
94 1,3-Dichlorobenzene	146	22.559	22.559	0.0	98	651242	1.93	
95 sec-Butylbenzene	105	22.613	22.613	0.0	98	1472636	1.97	
96 Benzyl chloride	91	22.731	22.731	0.0	97	824576	2.01	
97 1,4-Dichlorobenzene	146	22.747	22.747	0.0	91	655466	1.93	
98 4-Isopropyltoluene	119	22.979	22.979	0.0	90	1259715	1.97	
99 1,2,3-Trimethylbenzene	105	23.033	23.033	0.0	99	900744	1.99	
100 Butylcyclohexane	83	23.227	23.227	0.0	90	829659	2.06	
101 1,2-Dichlorobenzene	146	23.492	23.492	0.0	93	606104	1.86	
102 2,3-Dihydroindene	117	23.519	23.519	0.0	90	915122	2.01	
103 Indene	116	23.788	23.788	0.0	88	886376	1.98	
104 n-Butylbenzene	91	23.928	23.928	0.0	98	1160289	1.95	
105 1,2-Dimethyl-4-Ethylbenzene	119	24.780	24.780	0.0	97	1145833	1.91	
106 Undecane	57	24.834	24.834	0.0	95	905826	1.90	
107 1,2,4,5-Tetramethylbenzene	119	25.692	25.692	0.0	97	1167880	1.86	
108 1,2,3,5-Tetramethylbenzene	119	25.821	25.821	0.0	96	723921	1.84	
109 1,2,3,4-Tetramethylbenzene	119	26.722	26.722	0.0	98	931499	1.78	
110 Dodecane	57	27.342	27.342	0.0	93	684185	1.50	
111 1,2,4-Trichlorobenzene	180	27.412	27.412	0.0	91	425294	1.55	
112 Naphthalene	128	27.649	27.649	0.0	99	964452	1.59	
113 Benzo(b)thiophene	134	27.843	27.843	0.0	99	717461	1.50	
114 Hexachlorobutadiene	225	28.188	28.188	0.0	84	378399	1.46	
115 1,2,3-Trichlorobenzene	180	28.226	28.226	0.0	91	386084	1.48	
116 2-Methylnaphthalene	142	29.704	29.704	0.0	99	372076	8.09	
117 1-Methylnaphthalene	142	30.006	30.006	0.0	100	291455	7.55	
A 118 C6 Range	1	7.791	7.714 - 7.843		0	1888623	1.75	
A 119 Toluene Range	1	14.206	14.130 - 14.281		0	3656061	2.62	
A 120 C8 Range	1	15.268	15.209 - 15.328		0	4452042	2.07	
S 124 Xylenes, Total	100				0		6.40	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MR\20140319-535.b\RCCVC20-LCS.d

Injection Date: 20-Mar-2014 09:54:30

Instrument ID: MR

Operator ID: 7126

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

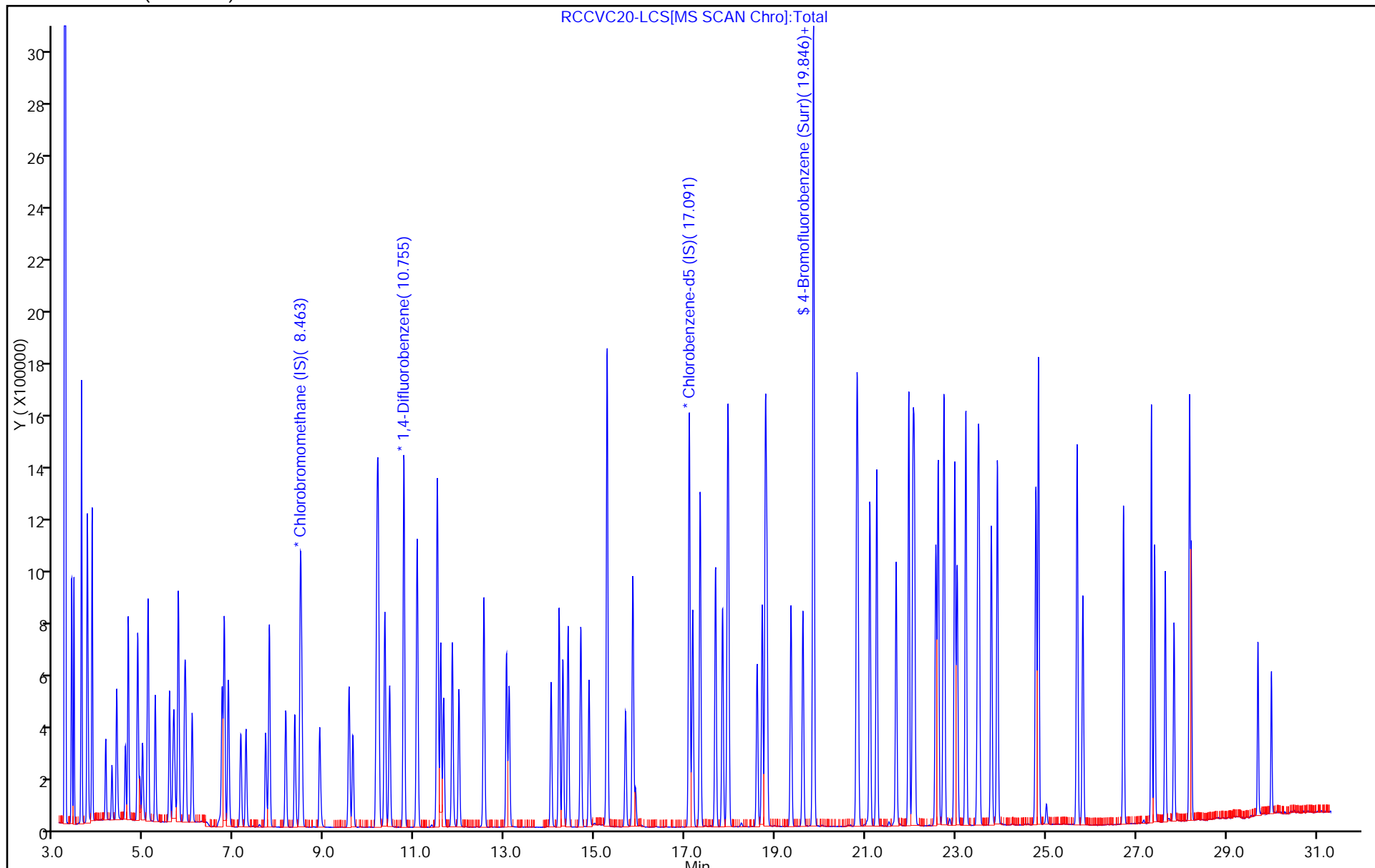
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MR_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1

SDG No.: _____

Instrument ID: MR Start Date: 01/21/2014 17:09

Analysis Batch Number: 722 End Date: 01/24/2014 11:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-722/1		01/21/2014 17:09	1	140-0000372-001 .D	RTX-5 0.32 (mm)
IC 140-722/2		01/21/2014 17:35	1	140-0000372-002 .D	RTX-5 0.32 (mm)
IC 140-722/3		01/21/2014 18:23	1	140-0000372-003 .D	RTX-5 0.32 (mm)
IC 140-722/4		01/21/2014 19:12	1	140-0000372-004 .D	RTX-5 0.32 (mm)
IC 140-722/5		01/21/2014 20:00	1	140-0000372-005 .D	RTX-5 0.32 (mm)
IC 140-722/6		01/21/2014 20:48	1	140-0000372-006 .D	RTX-5 0.32 (mm)
IC 140-722/7 ICIS		01/21/2014 21:36	1	140-0000372-007 .D	RTX-5 0.32 (mm)
IC 140-722/8		01/21/2014 22:24	1	140-0000372-008 .D	RTX-5 0.32 (mm)
IC 140-722/9		01/21/2014 23:13	1	140-0000372-009 .D	RTX-5 0.32 (mm)
IC 140-722/10		01/22/2014 00:00	1	140-0000372-010 .D	RTX-5 0.32 (mm)
ICV 140-722/13		01/22/2014 02:26	1		RTX-5 0.32 (mm)
BFB 140-722/15		01/24/2014 09:38	1	RBFA24a.D	RTX-5 0.32 (mm)
ICV 140-722/16		01/24/2014 11:35	1	RICVA24a.D	RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/11/2014 12:12

Analysis Batch Number: 946 End Date: 03/11/2014 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-946/1		03/11/2014 12:12	1	JBFBC11.D	RTX-5 0.32 (mm)
IC 140-946/2		03/11/2014 12:40	1	JICC111.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 12:40	1		RTX-5 0.32 (mm)
IC 140-946/3		03/11/2014 13:35	1	JICC112.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 13:35	1		RTX-5 0.32 (mm)
IC 140-946/4		03/11/2014 14:29	1	JICC113.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 14:29	1		RTX-5 0.32 (mm)
IC 140-946/5		03/11/2014 15:23	1	JICC114.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 15:23	1		RTX-5 0.32 (mm)
IC 140-946/6		03/11/2014 16:17	1	JICC115.D	RTX-5 0.32 (mm)
ICIS 140-946/7		03/11/2014 17:11	1	JICC116.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 17:11	1		RTX-5 0.32 (mm)
IC 140-946/8		03/11/2014 18:06	1	JICC117.D	RTX-5 0.32 (mm)
IC 140-946/9		03/11/2014 19:02	1	JICC118.D	RTX-5 0.32 (mm)
IC 140-946/10		03/11/2014 19:57	1	JICC119.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 22:39	1		RTX-5 0.32 (mm)
ICV 140-946/14		03/11/2014 23:33	1	JLCS11.D	RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/19/2014 10:38

Analysis Batch Number: 976 End Date: 03/20/2014 07:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-976/1		03/19/2014 10:38	1	JBFBC19.D	RTX-5 0.32 (mm)
CCVIS 140-976/2		03/19/2014 11:06	1	JCCVC19.D	RTX-5 0.32 (mm)
LCS 140-976/1002		03/19/2014 11:06	1	JCCVC19-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 13:17	1		RTX-5 0.32 (mm)
MB 140-976/1004		03/19/2014 13:17	1	140-1071-a-10-M B.d	RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 14:11	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 15:05	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 15:59	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 16:52	1.43		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 19:31	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 20:25	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 21:18	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 22:12	1		RTX-5 0.32 (mm)
ZZZZZ		03/19/2014 23:06	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 00:01	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 00:55	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 01:49	1		RTX-5 0.32 (mm)
140-1065-1	SAMPLE 2- ROOM # 4	03/20/2014 02:43	1	JC19P111.D	RTX-5 0.32 (mm)
140-1065-2	SAMPLE 3- ROOM # 2	03/20/2014 03:37	1	JC19P112.D	RTX-5 0.32 (mm)
140-1065-3	SAMPLE 4- AMBIENT	03/20/2014 04:32	1	JC19P113.D	RTX-5 0.32 (mm)
140-1065-4	SAMPLE 5- ROOM #11	03/20/2014 05:26	1	JC19P114.D	RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 07:15	1		RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1065-1

SDG No.: _____

Instrument ID: MR Start Date: 03/20/2014 09:28

Analysis Batch Number: 979 End Date: 03/21/2014 08:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-979/1		03/20/2014 09:28	1	RBFBC20.D	RTX-5 0.32 (mm)
CCVIS 140-979/2		03/20/2014 09:54	1	RCCVC20.D	RTX-5 0.32 (mm)
LCS 140-979/1002		03/20/2014 09:54	1	RCCVC20-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 12:22	1		RTX-5 0.32 (mm)
MB 140-979/5		03/20/2014 13:11	1	200MLBLK.D	RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 13:59	1758.86		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 14:51	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 15:44	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 16:37	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 17:30	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 18:23	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 19:17	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 20:10	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 21:03	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 21:55	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 22:49	1		RTX-5 0.32 (mm)
ZZZZZ		03/20/2014 23:42	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 00:31	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 01:21	1		RTX-5 0.32 (mm)
140-1065-1 DL	SAMPLE 2- ROOM # 4 DL	03/21/2014 02:10	1	RC20P114.D	RTX-5 0.32 (mm)
140-1065-2 DL	SAMPLE 3- ROOM # 2 DL	03/21/2014 02:57	1	RC20P115.D	RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 03:44	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 04:31	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 05:20	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 06:07	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 06:56	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 08:04	1		RTX-5 0.32 (mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09996 Lab Sample ID: 140-855-1
 Matrix: Air Lab File ID: 140-855-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09996 Lab Sample ID: 140-855-1
 Matrix: Air Lab File ID: 140-855-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09996 Lab Sample ID: 140-855-1
 Matrix: Air Lab File ID: 140-855-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09996 Lab Sample ID: 140-855-1
 Matrix: Air Lab File ID: 140-855-a-1.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 04:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-1.D
 Lims ID: 140-855-A-1 Lab Sample ID: 140-855-1
 Client ID: 09996
 Sample Type: Client
 Inject. Date: 11-Feb-2014 04:15:30 ALS Bottle#: 9 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09996
 Misc. Info.: J021014,TO15,,140-0000424-020
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140209-424.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 09:06:00 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 09:06:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.419	9.425	-0.006	94	258655	4.00	
* 2 1,4-Difluorobenzene	114	11.571	11.577	-0.006	94	1234224	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.229	16.235	-0.006	93	1045589	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.849	17.849	0.0	83	798096	3.83	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-1.D

Injection Date: 11-Feb-2014 04:15:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-855-A-1

Lab Sample ID: 140-855-1

Worklist Smp#: 20

Client ID: 09996

Purge Vol: 500.000 mL

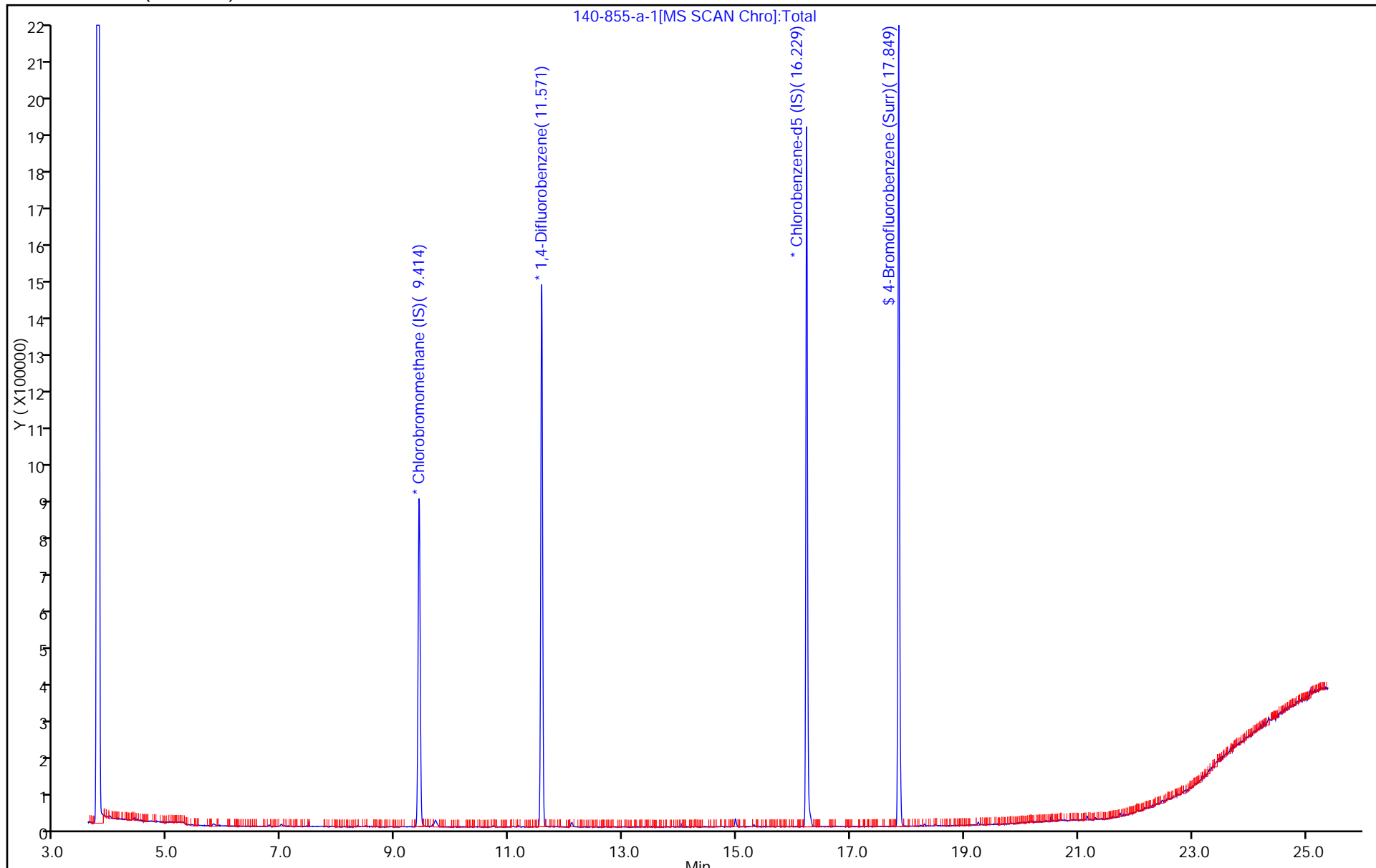
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10128 Lab Sample ID: 140-855-2
 Matrix: Air Lab File ID: 140-855-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 05:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10128 Lab Sample ID: 140-855-2
 Matrix: Air Lab File ID: 140-855-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 05:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10128 Lab Sample ID: 140-855-2
 Matrix: Air Lab File ID: 140-855-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 05:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10128 Lab Sample ID: 140-855-2
 Matrix: Air Lab File ID: 140-855-a-2.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 05:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-2.D
 Lims ID: 140-855-A-2 Lab Sample ID: 140-855-2
 Client ID: 10128
 Sample Type: Client
 Inject. Date: 11-Feb-2014 05:13:30 ALS Bottle#: 10 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10128
 Misc. Info.: J021014,TO15,,140-0000424-021
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140209-424.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 09:06:20 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 09:06:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.419	9.425	-0.006	94	267286	4.00	
* 2 1,4-Difluorobenzene	114	11.571	11.577	-0.006	97	1244606	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.230	16.235	-0.005	93	1041426	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.849	17.849	0.0	83	819753	3.95	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-2.D

Injection Date: 11-Feb-2014 05:13:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-855-A-2

Lab Sample ID: 140-855-2

Worklist Smp#: 21

Client ID: 10128

Purge Vol: 500.000 mL

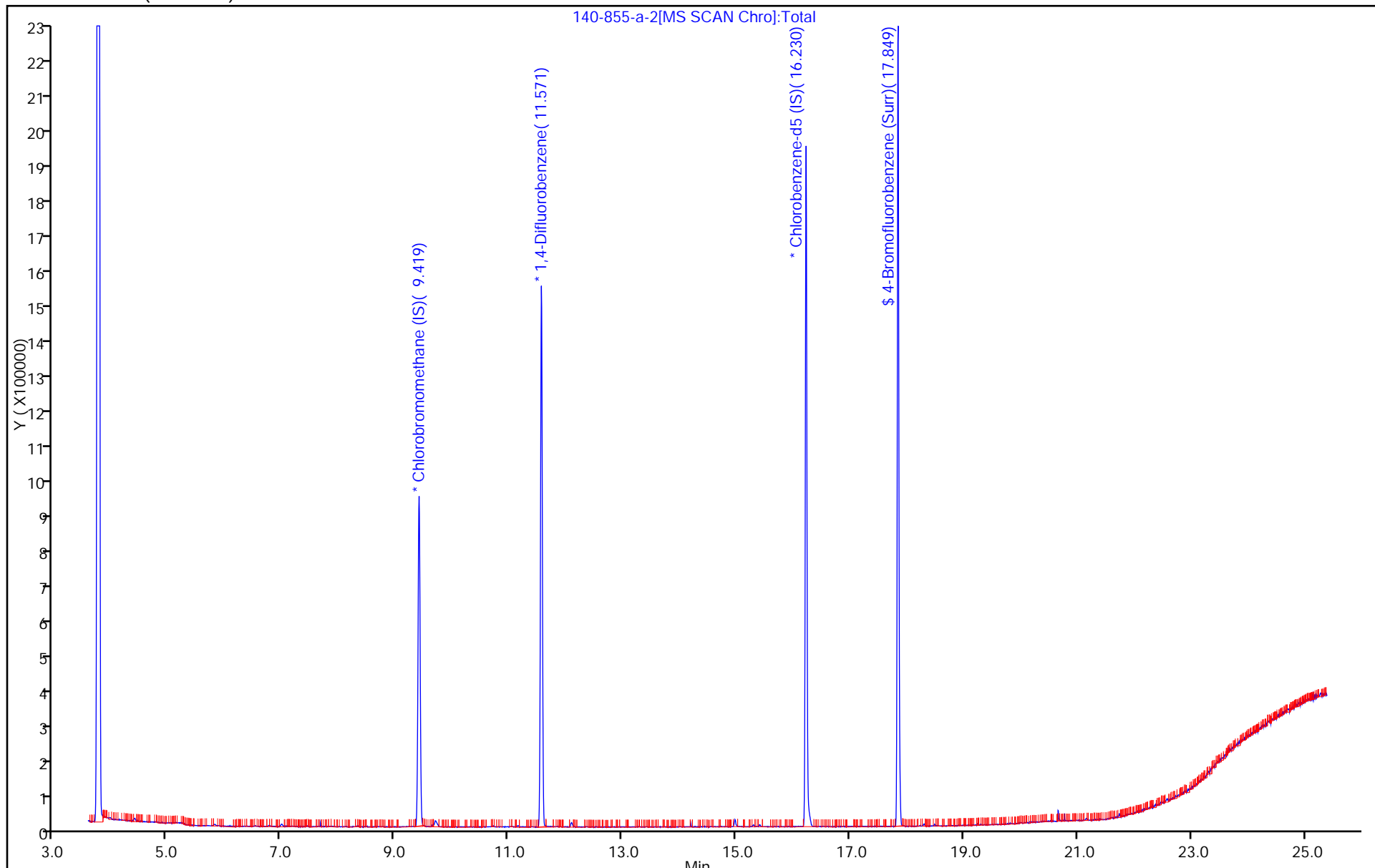
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10386 Lab Sample ID: 140-855-4
 Matrix: Air Lab File ID: 140-855-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 07:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10386 Lab Sample ID: 140-855-4
 Matrix: Air Lab File ID: 140-855-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 07:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	0.97		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10386 Lab Sample ID: 140-855-4
 Matrix: Air Lab File ID: 140-855-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 07:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10386 Lab Sample ID: 140-855-4
 Matrix: Air Lab File ID: 140-855-a-4.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 07:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 823 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-4.D
 Lims ID: 140-855-A-4 Lab Sample ID: 140-855-4
 Client ID: 10386
 Sample Type: Client
 Inject. Date: 11-Feb-2014 07:59:30 ALS Bottle#: 12 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10386
 Misc. Info.: J021014,TO15,,140-0000424-023
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140209-424.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 09:08:29 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh

Date: 11-Feb-2014 09:08:29

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.415	9.425	-0.010	93	257095	4.00	
* 2 1,4-Difluorobenzene	114	11.566	11.577	-0.011	94	1196314	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.230	16.235	-0.005	93	1002440	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.844	17.849	-0.005	83	794117	3.97	
17 Ethanol	31	5.122	5.127	-0.005	95	25038	0.9749	
24 Isopropyl alcohol	45	5.870	5.864	0.006	65	10789	0.0725	
28 2-Methyl-2-propanol	59	6.515	6.493	0.022	47	4331	0.0280	
33 Carbon disulfide	76	6.956	6.961	-0.005	97	24738	0.0888	
47 n-Butanol	31	10.975	10.974	0.001	92	14629	0.3372	
98 4-Isopropyltoluene	119	19.367	19.372	-0.005	59	11517	0.0490	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-4.D

Injection Date: 11-Feb-2014 07:59:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-855-A-4

Lab Sample ID: 140-855-4

Worklist Smp#: 23

Client ID: 10386

Purge Vol: 500.000 mL

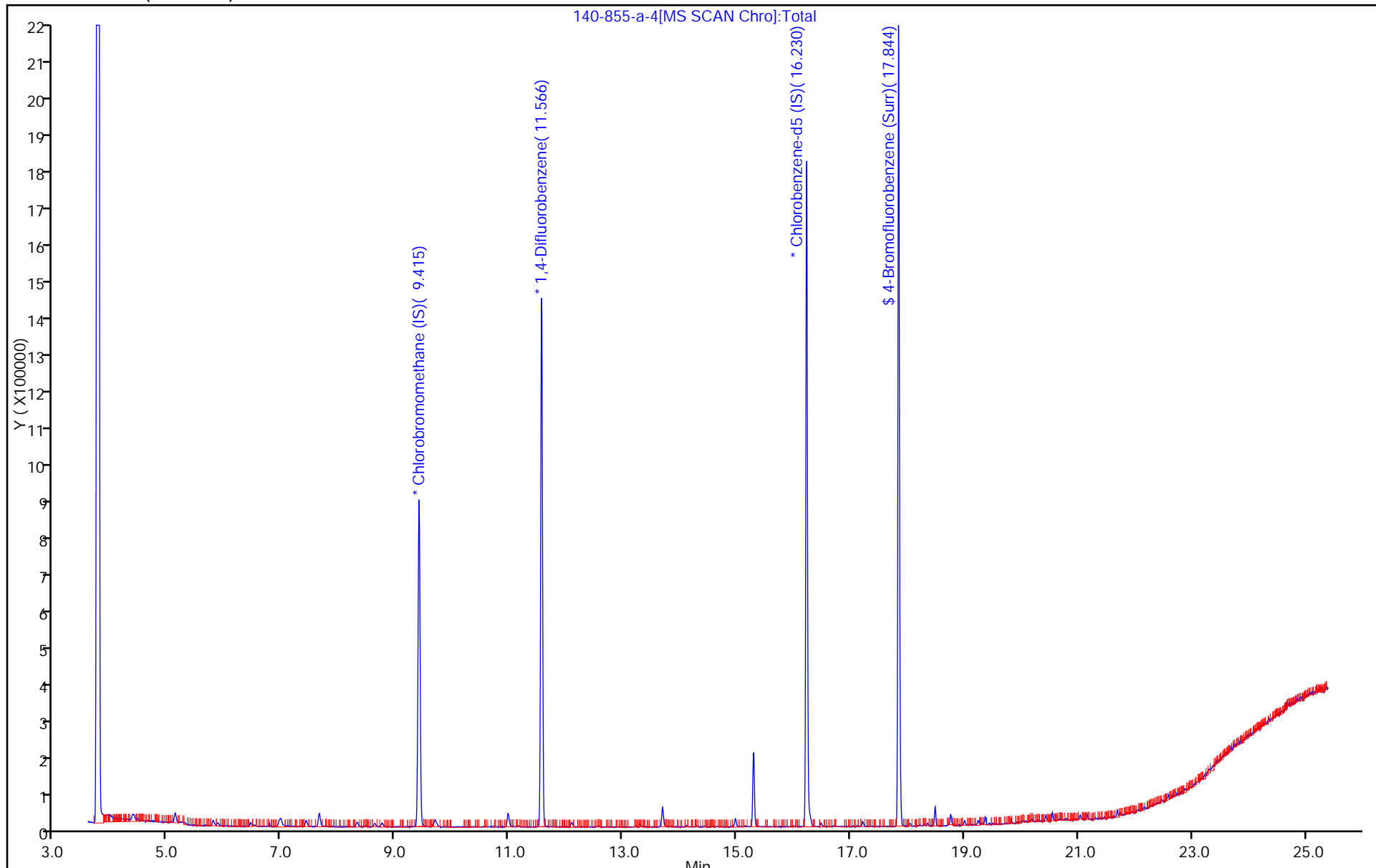
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140209-424.b\140-855-a-4.D

Injection Date: 11-Feb-2014 07:59:30

Instrument ID: MJ

Lims ID: 140-855-A-4

Lab Sample ID: 140-855-4

Client ID: 10386

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

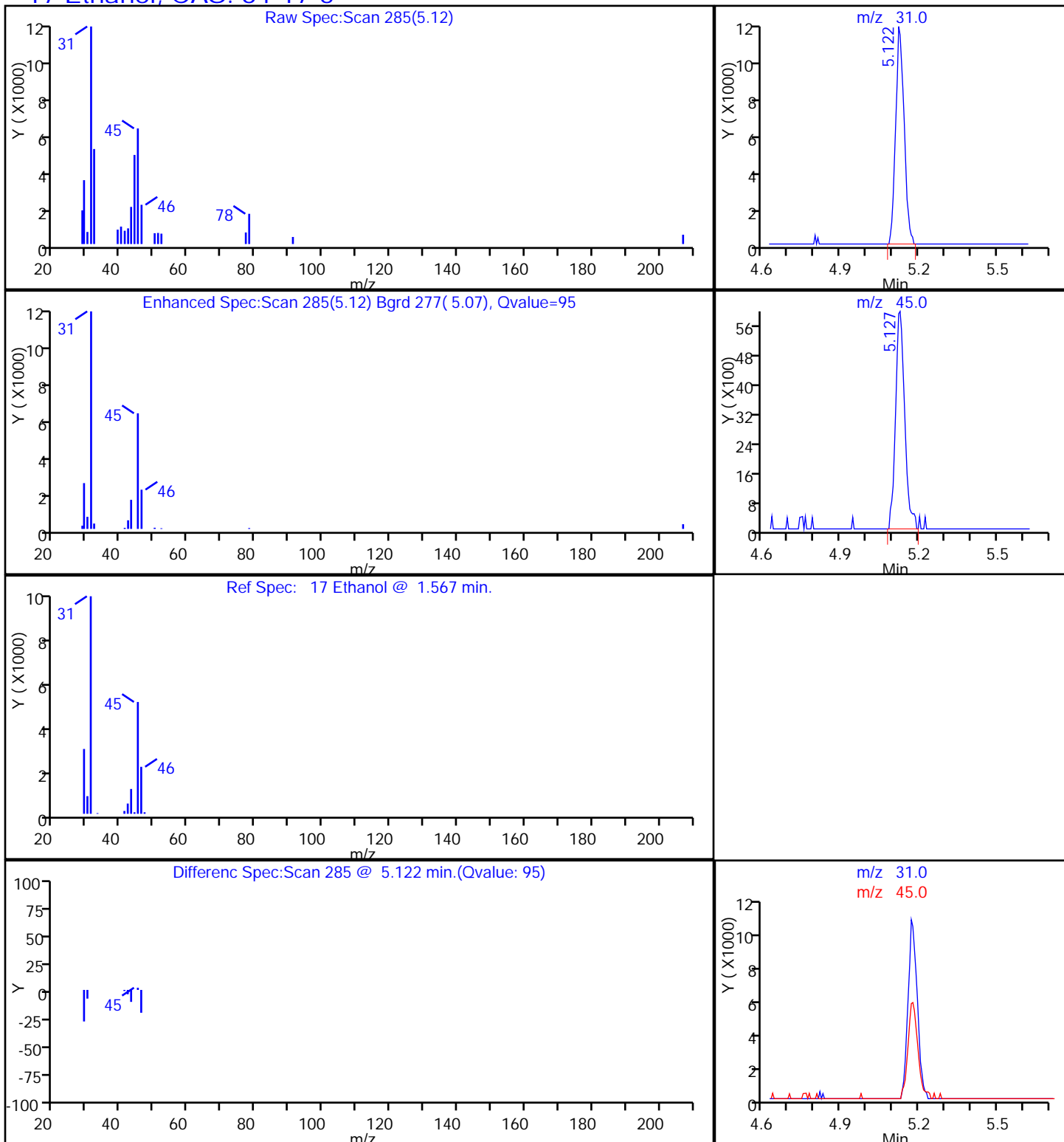
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10123 Lab Sample ID: 140-855-7
 Matrix: Air Lab File ID: 140-855-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 12:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10123 Lab Sample ID: 140-855-7
 Matrix: Air Lab File ID: 140-855-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 12:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10123 Lab Sample ID: 140-855-7
 Matrix: Air Lab File ID: 140-855-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 12:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10123 Lab Sample ID: 140-855-7
 Matrix: Air Lab File ID: 140-855-a-7.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 12:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-7.D
 Lims ID: 140-855-A-7 Lab Sample ID: 140-855-7
 Client ID: 10123
 Sample Type: Client
 Inject. Date: 11-Feb-2014 12:11:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10123
 Misc. Info.: E021114,TO155,,140-0000427-004
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140210-427.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 16:19:05 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: tajh

Date: 11-Feb-2014 13:37:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	240232	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.588	-0.005	95	1100464	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	978282	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.037	0.001	86	842044	3.93	
20 Acrolein	56	4.781	4.770	0.011	78	2249	0.0885	
28 Acrylonitrile	53	5.563	5.568	-0.005	89	9945	0.2363	
62 4-Methyl-2-pentanone (MIBK)	43	12.540	12.524	0.016	89	13046	0.1000	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-7.D

Injection Date: 11-Feb-2014 12:11:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-855-A-7

Lab Sample ID: 140-855-7

Worklist Smp#: 4

Client ID: 10123

Purge Vol: 500.000 mL

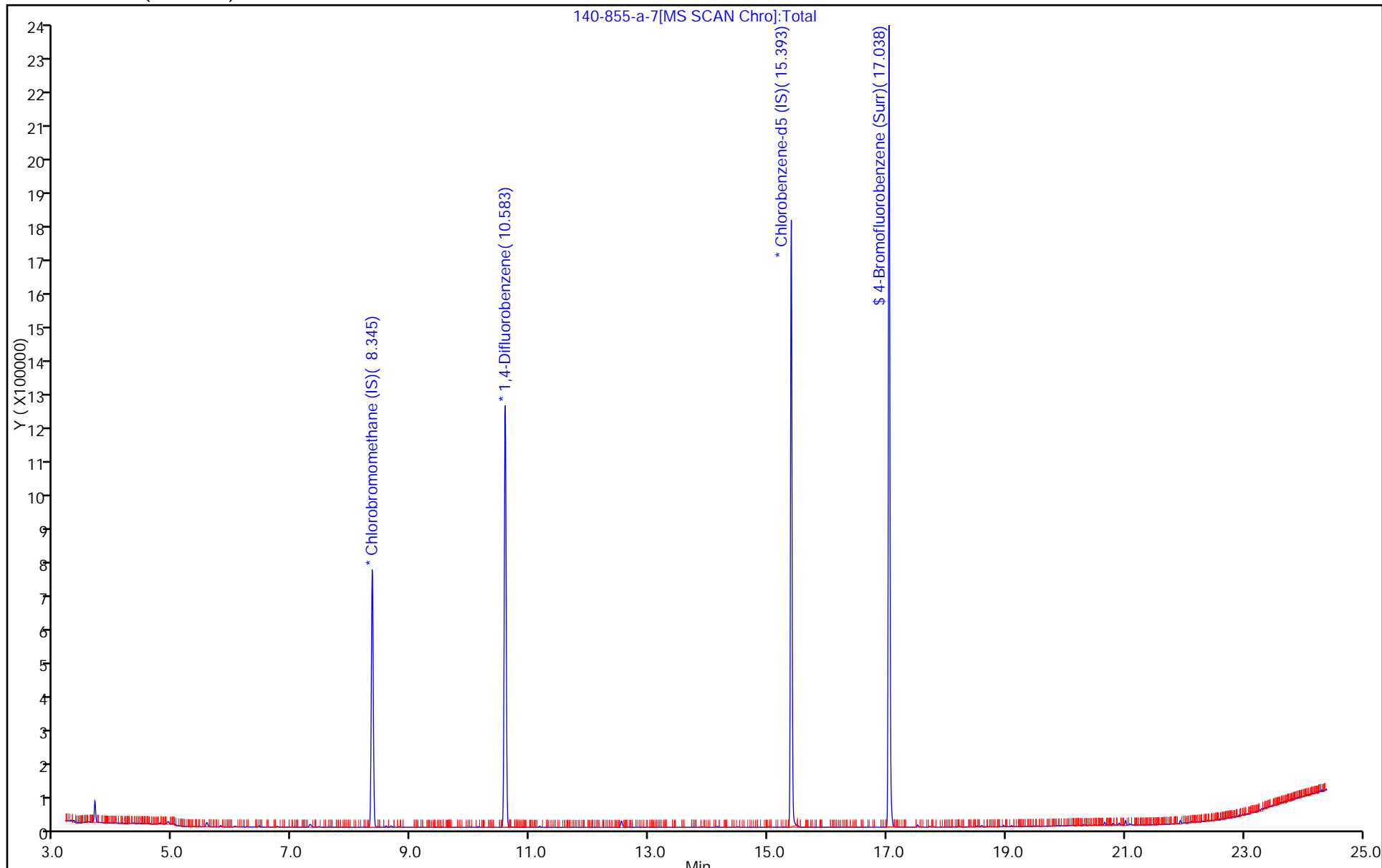
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10731 Lab Sample ID: 140-855-8
 Matrix: Air Lab File ID: 140-855-a-8ARR.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/12/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10731 Lab Sample ID: 140-855-8
 Matrix: Air Lab File ID: 140-855-a-8ARR.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/12/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10731 Lab Sample ID: 140-855-8
 Matrix: Air Lab File ID: 140-855-a-8ARR.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/12/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10731 Lab Sample ID: 140-855-8
 Matrix: Air Lab File ID: 140-855-a-8ARR.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/12/2014 09:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-8ARR.D
 Lims ID: 140-855-A-8 Lab Sample ID:
 Client ID: 10731
 Sample Type: Client
 Inject. Date: 12-Feb-2014 09:03:30 ALS Bottle#: 2 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10731
 Misc. Info.: E021114,TO155,,140-0000427-009
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140210-427.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 12-Feb-2014 09:39:50 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: tajh Date: 12-Feb-2014 09:39:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.350	-0.010	82	231550	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.588	-0.010	95	1186018	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	91	1000504	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.037	-0.005	85	864377	3.95	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-8ARR.D

Injection Date: 12-Feb-2014 09:03:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-855-A-8

Lab Sample ID:

Worklist Smp#: 14

Client ID: 10731

Purge Vol: 500.000 mL

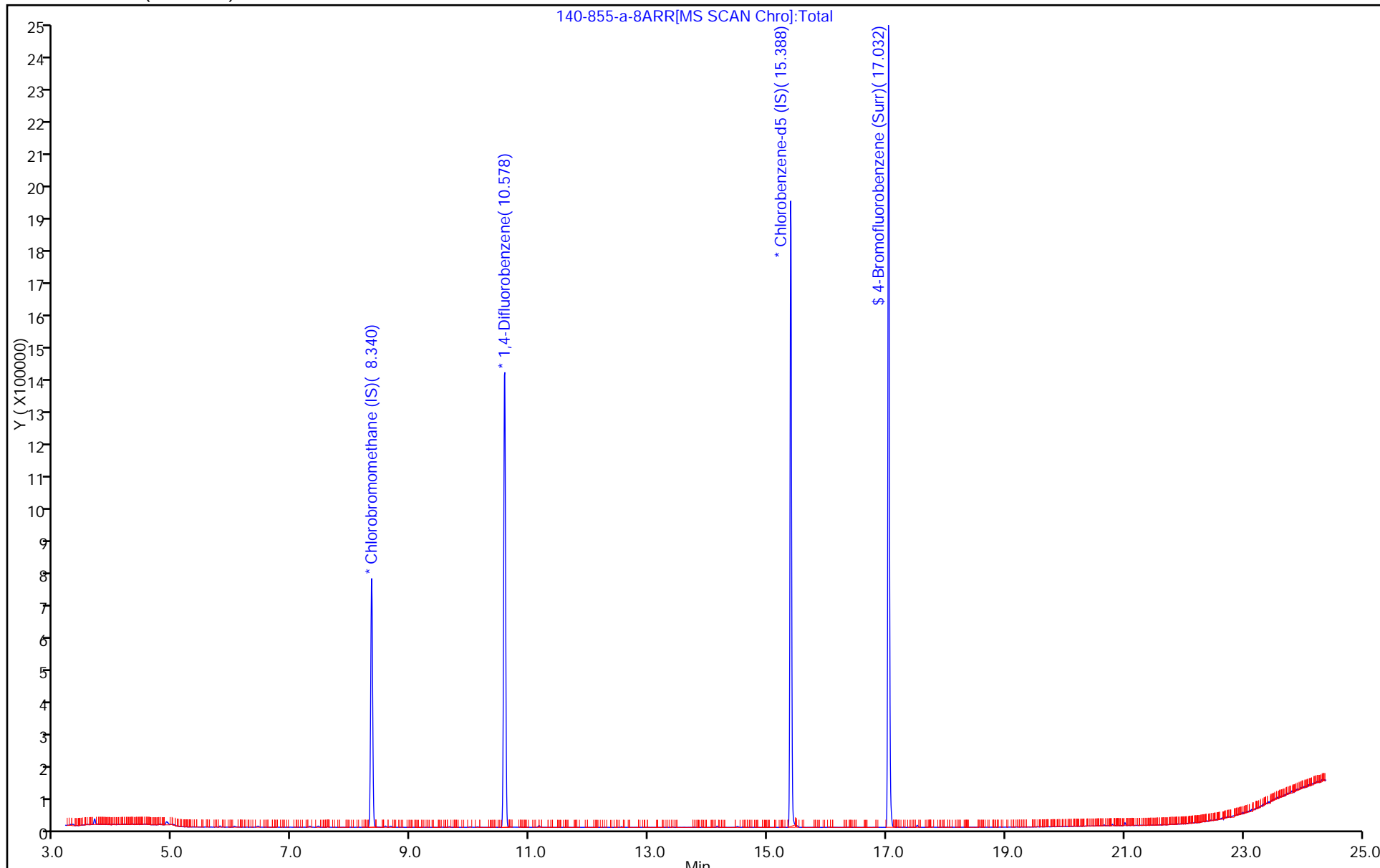
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10273 Lab Sample ID: 140-855-11
 Matrix: Air Lab File ID: 140-855-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 14:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10273 Lab Sample ID: 140-855-11
 Matrix: Air Lab File ID: 140-855-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 14:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10273 Lab Sample ID: 140-855-11
 Matrix: Air Lab File ID: 140-855-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 14:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10273 Lab Sample ID: 140-855-11
 Matrix: Air Lab File ID: 140-855-a-11.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 14:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 826 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-11.D
 Lims ID: 140-855-A-11 Lab Sample ID: 140-855-11
 Client ID: 10273
 Sample Type: Client
 Inject. Date: 11-Feb-2014 14:30:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10273
 Misc. Info.: E021114,TO155,,140-0000427-007
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140210-427.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 16:19:05 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: barlozhetskayaa

Date: 11-Feb-2014 16:00:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	222813	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.588	-0.010	96	1096864	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	969242	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.037	0.001	85	839829	3.96	
9 Chloromethane	52	3.535	3.535	0.0	36	1260	0.0640	
29 2-Methyl-2-propanol	59	5.574	5.557	0.017	46	3357	0.0273	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.524	0.011	84	12304	0.0946	
65 Toluene	91	13.403	13.408	-0.005	90	27112	0.1044	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140210-427.b\140-855-a-11.D

Injection Date: 11-Feb-2014 14:30:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-855-A-11

Lab Sample ID: 140-855-11

Worklist Smp#: 7

Client ID: 10273

Purge Vol: 500.000 mL

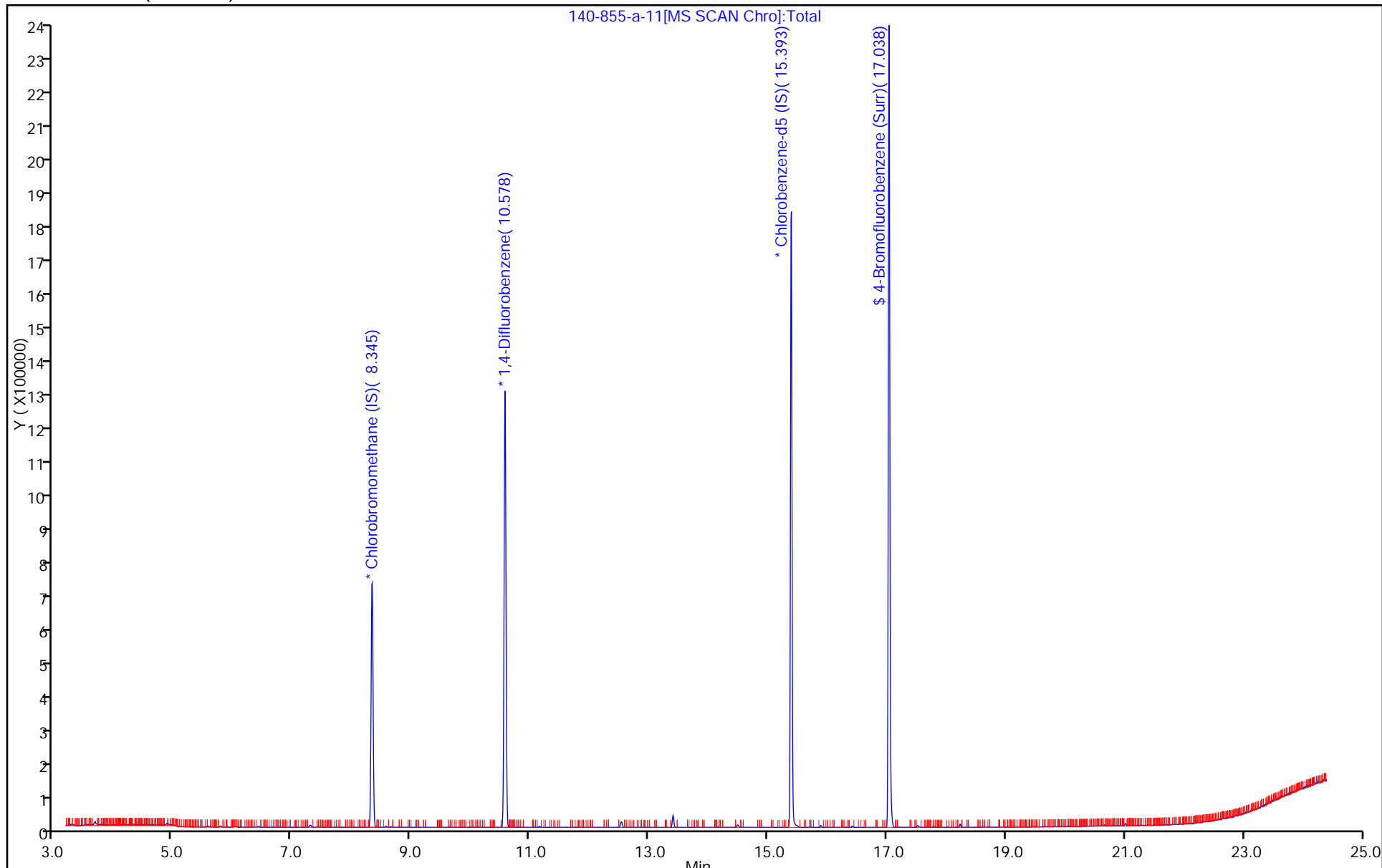
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10105 Lab Sample ID: 140-855-13
 Matrix: Air Lab File ID: 140-855-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10105 Lab Sample ID: 140-855-13
 Matrix: Air Lab File ID: 140-855-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10105 Lab Sample ID: 140-855-13
 Matrix: Air Lab File ID: 140-855-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500(mL) Date Analyzed: 02/11/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 10105 Lab Sample ID: 140-855-13
 Matrix: Air Lab File ID: 140-855-a-13.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 04:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-13.D
 Lims ID: 140-855-A-13 Lab Sample ID: 140-855-13
 Client ID: 10105
 Sample Type: Client
 Inject. Date: 11-Feb-2014 04:11:30 ALS Bottle#: 6 Worklist Smp#: 24
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10105
 Misc. Info.: E021014,TO155,,140-0000422-024
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:24:10 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh

Date: 11-Feb-2014 07:24:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	82	243203	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1208125	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.393	-0.005	92	1039425	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	916691	4.03	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-13.D

Injection Date: 11-Feb-2014 04:11:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-855-A-13

Lab Sample ID: 140-855-13

Worklist Smp#: 24

Client ID: 10105

Purge Vol: 500.000 mL

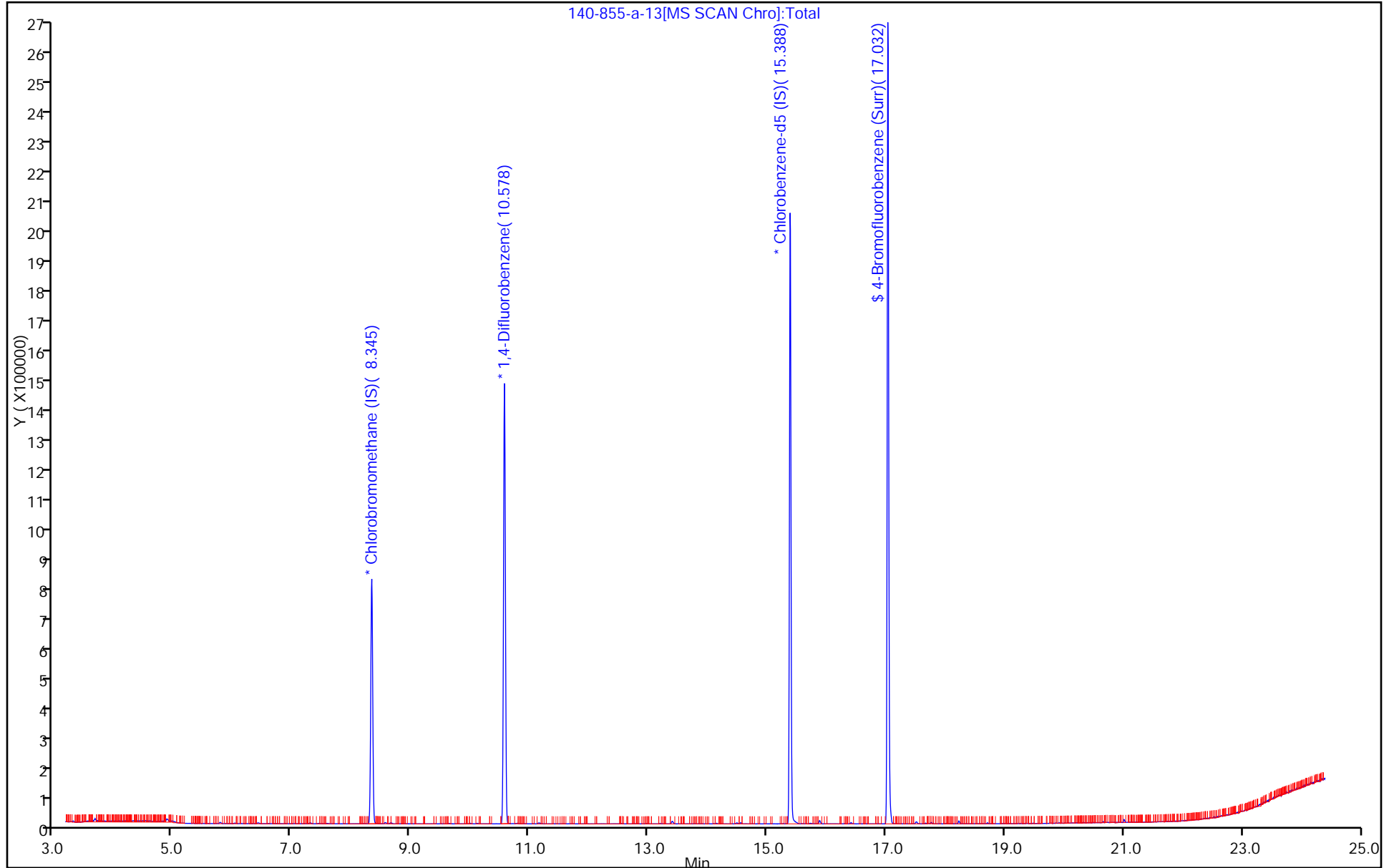
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09723 Lab Sample ID: 140-855-14
 Matrix: Air Lab File ID: 140-855-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 02:38
 Soil Aliquot Vol: 500 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND	*	0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09723 Lab Sample ID: 140-855-14
 Matrix: Air Lab File ID: 140-855-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 02:38
 Soil Aliquot Vol: 500 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND	*	0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND	*	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09723 Lab Sample ID: 140-855-14
 Matrix: Air Lab File ID: 140-855-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 02:38
 Soil Aliquot Vol: 500 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-855-1
 SDG No.: _____
 Client Sample ID: 09723 Lab Sample ID: 140-855-14
 Matrix: Air Lab File ID: 140-855-a-14.D
 Analysis Method: TO 15 LL Date Collected: 02/09/2014 10:48
 Sample wt/vol: 500 (mL) Date Analyzed: 02/11/2014 02:38
 Soil Aliquot Vol: 500 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 820 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-14.D
 Lims ID: 140-855-A-14 Lab Sample ID: 140-855-14
 Client ID: 09723
 Sample Type: Client
 Inject. Date: 11-Feb-2014 02:38:30 ALS Bottle#: 4 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09723
 Misc. Info.: E021014,TO155,,140-0000422-022
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140208-422.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 11-Feb-2014 07:23:30 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: tajh Date: 11-Feb-2014 07:23:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	83	224516	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1088308	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	91	969380	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.038	-0.006	84	844822	3.98	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140208-422.b\140-855-a-14.D

Injection Date: 11-Feb-2014 02:38:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-855-A-14

Lab Sample ID: 140-855-14

Worklist Smp#: 22

Client ID: 09723

Purge Vol: 500.000 mL

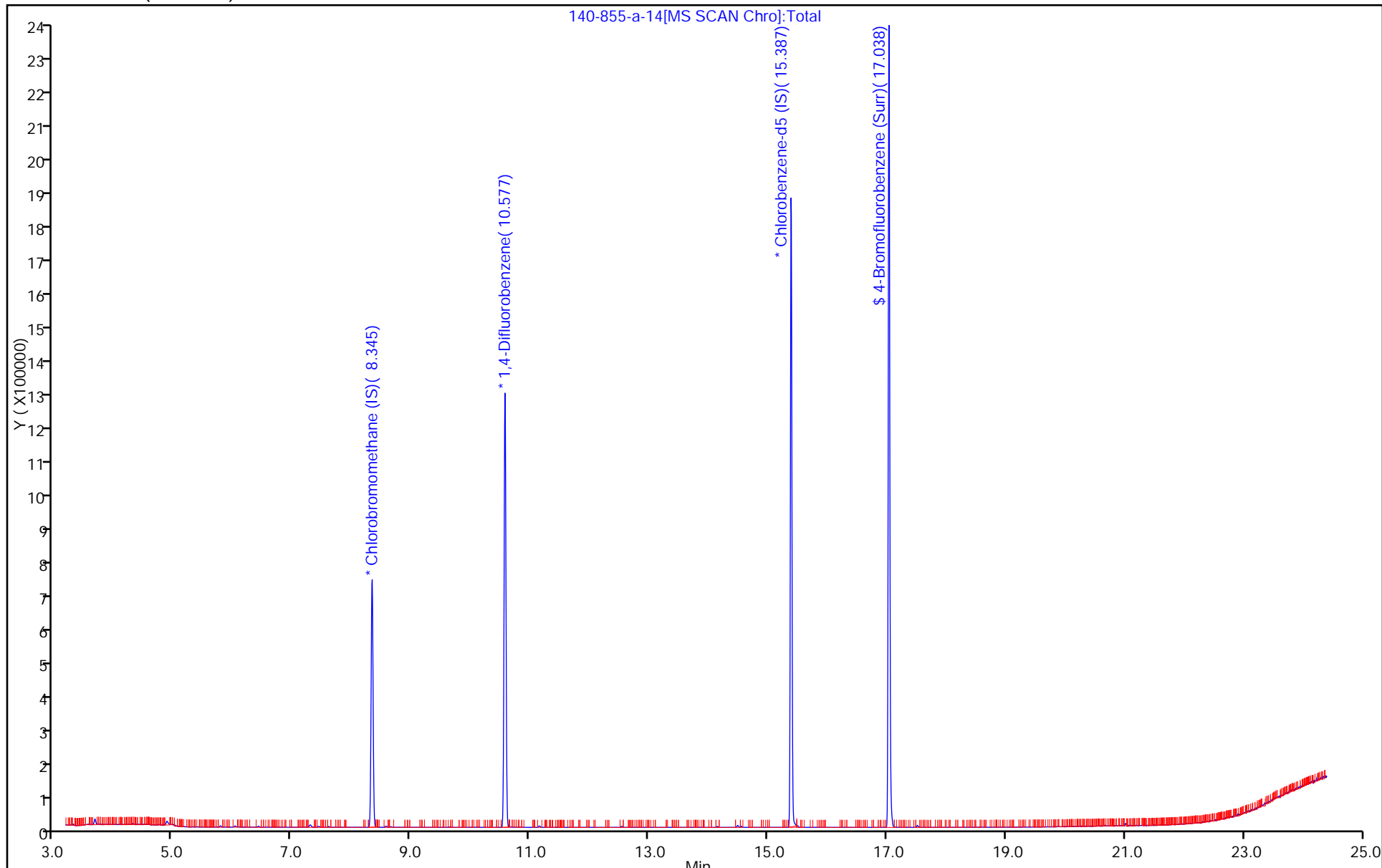
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10812 Lab Sample ID: 140-949-1
 Matrix: Air Lab File ID: 140-949-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10812 Lab Sample ID: 140-949-1
 Matrix: Air Lab File ID: 140-949-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10812 Lab Sample ID: 140-949-1
 Matrix: Air Lab File ID: 140-949-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 11:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10812 Lab Sample ID: 140-949-1
 Matrix: Air Lab File ID: 140-949-A-1.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 11:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D
 Lims ID: 140-949-A-1 Lab Sample ID: 140-949-1
 Client ID: 10812
 Sample Type: Client
 Inject. Date: 25-Feb-2014 11:40:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10812
 Misc. Info.: E022514,TO155,,140-0000471-004
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 12:26:07 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 12:26:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	82	306294	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	95	1507231	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	90	1337629	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1122589	3.83	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	92	18454	0.1033	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-1.D

Injection Date: 25-Feb-2014 11:40:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-1

Lab Sample ID: 140-949-1

Worklist Smp#: 4

Client ID: 10812

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10313 Lab Sample ID: 140-949-2
 Matrix: Air Lab File ID: 140-949-A-2.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 12:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10313 Lab Sample ID: 140-949-2
 Matrix: Air Lab File ID: 140-949-A-2.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 12:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10313 Lab Sample ID: 140-949-2
 Matrix: Air Lab File ID: 140-949-A-2.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 12:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10313 Lab Sample ID: 140-949-2
 Matrix: Air Lab File ID: 140-949-A-2.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 12:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D
 Lims ID: 140-949-A-2 Lab Sample ID: 140-949-2
 Client ID: 10313
 Sample Type: Client
 Inject. Date: 25-Feb-2014 12:26:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10313
 Misc. Info.: E022514,TO155,,140-0000471-005
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Feb-2014 13:03:34 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: tajh Date: 25-Feb-2014 13:03:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	294774	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1499739	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1288944	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	1101247	3.90	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-2.D

Injection Date: 25-Feb-2014 12:26:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-2

Lab Sample ID: 140-949-2

Worklist Smp#: 5

Client ID: 10313

Purge Vol: 500.000 mL

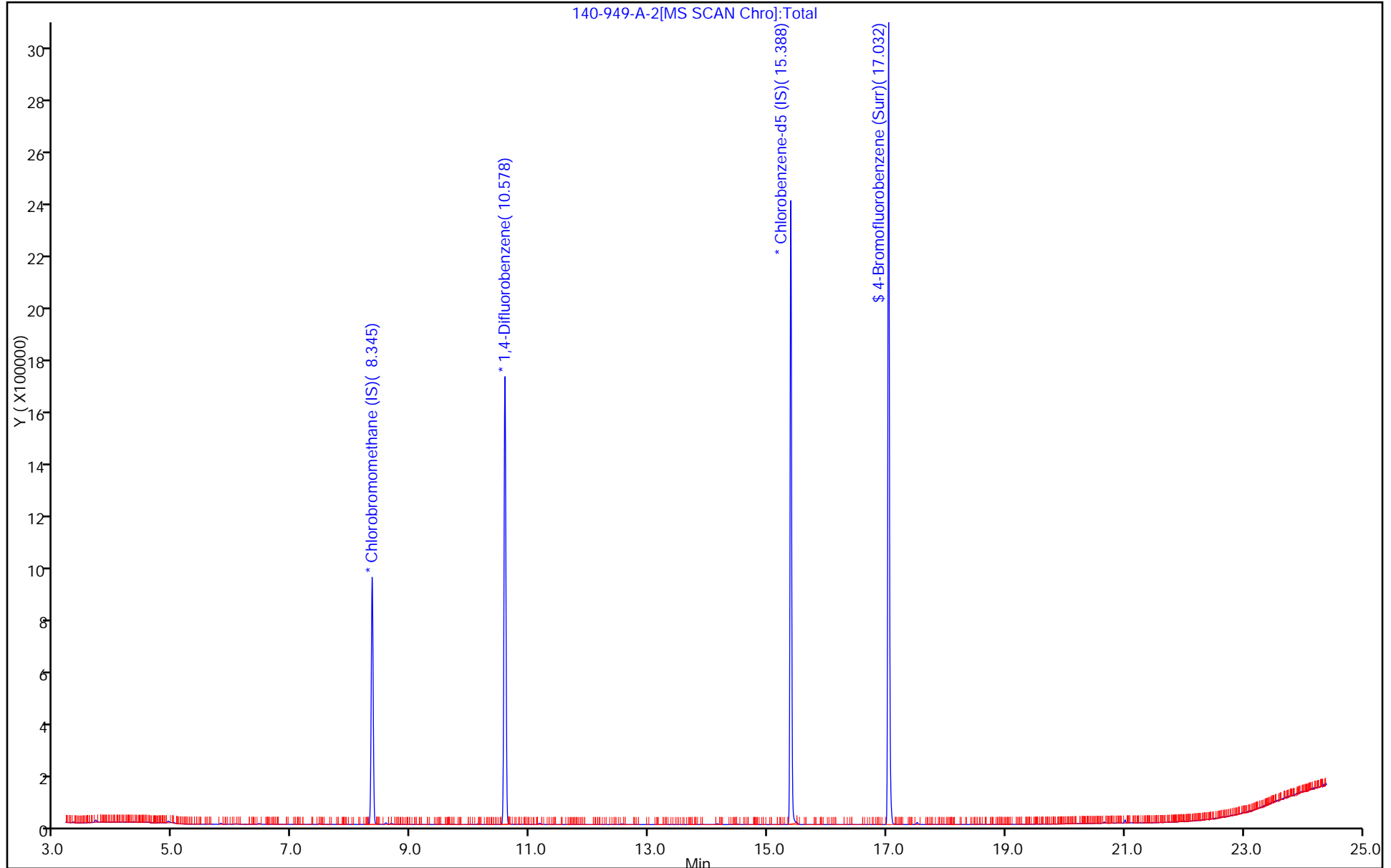
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 11039 Lab Sample ID: 140-949-4
 Matrix: Air Lab File ID: 140-949-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 11039 Lab Sample ID: 140-949-4
 Matrix: Air Lab File ID: 140-949-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 11039 Lab Sample ID: 140-949-4
 Matrix: Air Lab File ID: 140-949-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 11039 Lab Sample ID: 140-949-4
 Matrix: Air Lab File ID: 140-949-A-4.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D
 Lims ID: 140-949-A-4 Lab Sample ID: 140-949-4
 Client ID: 11039
 Sample Type: Client
 Inject. Date: 25-Feb-2014 13:56:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 11039
 Misc. Info.: E022514,TO155,,140-0000471-007
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 07:27:53 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 07:27:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	264346	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1342143	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	95	1158094	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	984708	3.88	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-4.D

Injection Date: 25-Feb-2014 13:56:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-4

Lab Sample ID: 140-949-4

Worklist Smp#: 7

Client ID: 11039

Purge Vol: 500.000 mL

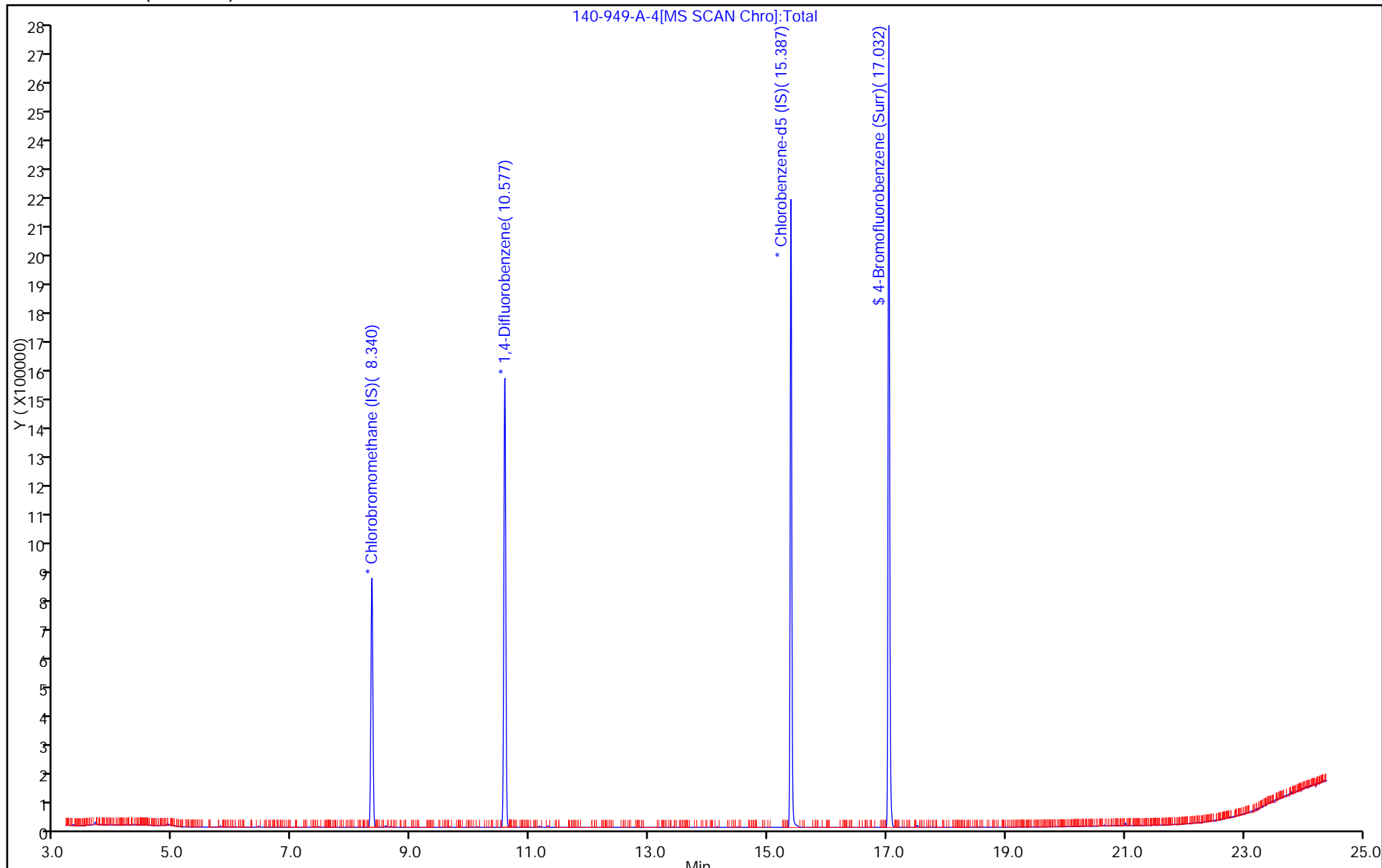
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10422 Lab Sample ID: 140-949-8
 Matrix: Air Lab File ID: 140-949-A-8.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10422 Lab Sample ID: 140-949-8
 Matrix: Air Lab File ID: 140-949-A-8.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10422 Lab Sample ID: 140-949-8
 Matrix: Air Lab File ID: 140-949-A-8.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 18:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10422 Lab Sample ID: 140-949-8
 Matrix: Air Lab File ID: 140-949-A-8.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 18:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D
 Lims ID: 140-949-A-8 Lab Sample ID: 140-949-8
 Client ID: 10422
 Sample Type: Client
 Inject. Date: 25-Feb-2014 18:06:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10422
 Misc. Info.: E022514,TO155,,140-0000471-011
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 08:14:17 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:14:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	255164	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1319915	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1149179	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	1013272	4.03	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	89	18325	0.1171	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-8.D

Injection Date: 25-Feb-2014 18:06:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-8

Lab Sample ID: 140-949-8

Worklist Smp#: 11

Client ID: 10422

Purge Vol: 500.000 mL

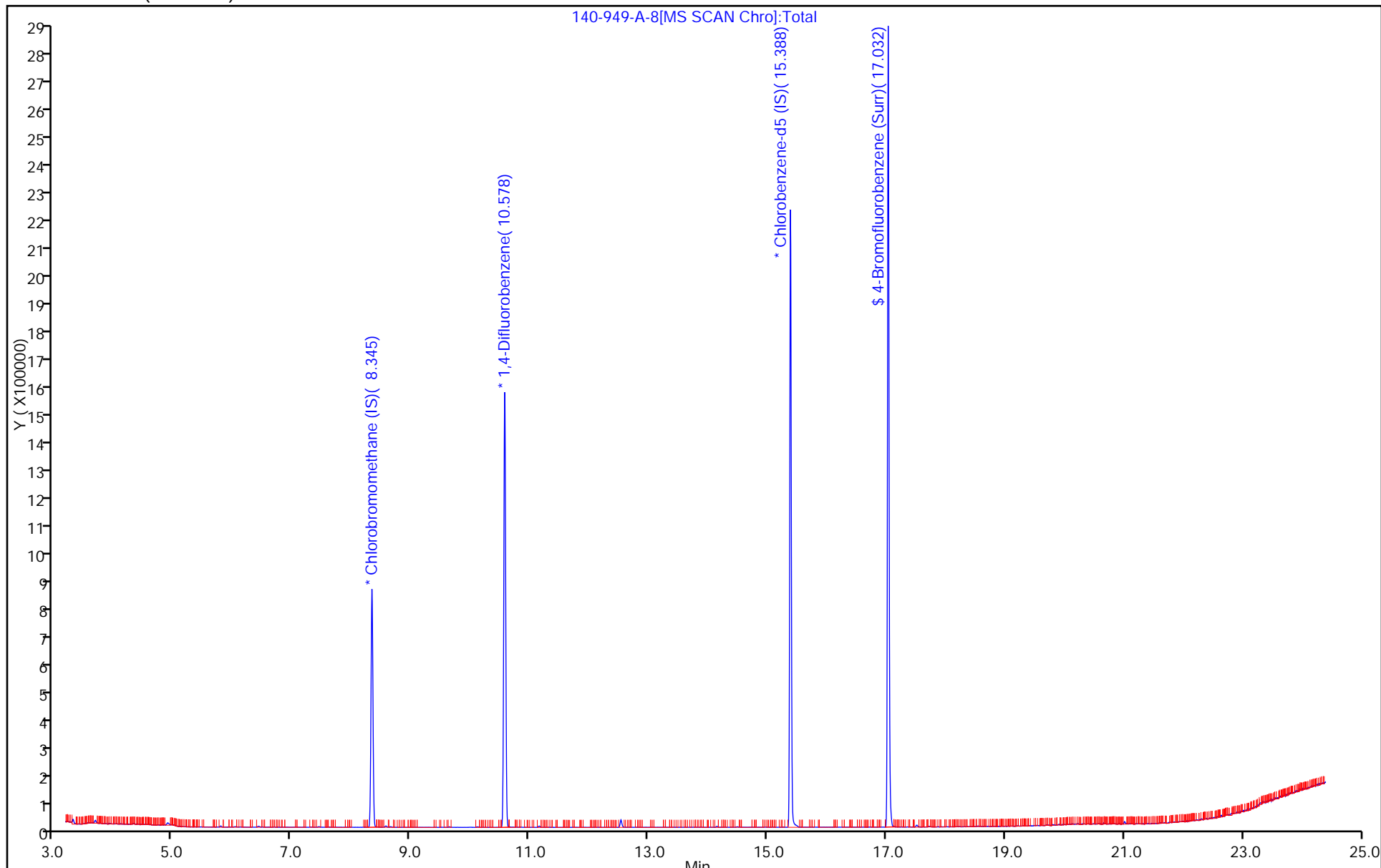
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10001 Lab Sample ID: 140-949-10
 Matrix: Air Lab File ID: 140-949-A-10.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10001 Lab Sample ID: 140-949-10
 Matrix: Air Lab File ID: 140-949-A-10.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10001 Lab Sample ID: 140-949-10
 Matrix: Air Lab File ID: 140-949-A-10.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10001 Lab Sample ID: 140-949-10
 Matrix: Air Lab File ID: 140-949-A-10.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 19:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D
 Lims ID: 140-949-A-10 Lab Sample ID: 140-949-10
 Client ID: 10001
 Sample Type: Client
 Inject. Date: 25-Feb-2014 19:37:30 ALS Bottle#: 10 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10001
 Misc. Info.: E022514,TO155,,140-0000471-013
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 08:16:06 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh

Date: 26-Feb-2014 08:16:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.345	0.0	83	247450	4.00	
* 2 1,4-Difluorobenzene	114	10.583	10.583	0.0	96	1268499	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1117715	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	993164	4.06	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-10.D

Injection Date: 25-Feb-2014 19:37:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-10

Lab Sample ID: 140-949-10

Worklist Smp#: 13

Client ID: 10001

Purge Vol: 500.000 mL

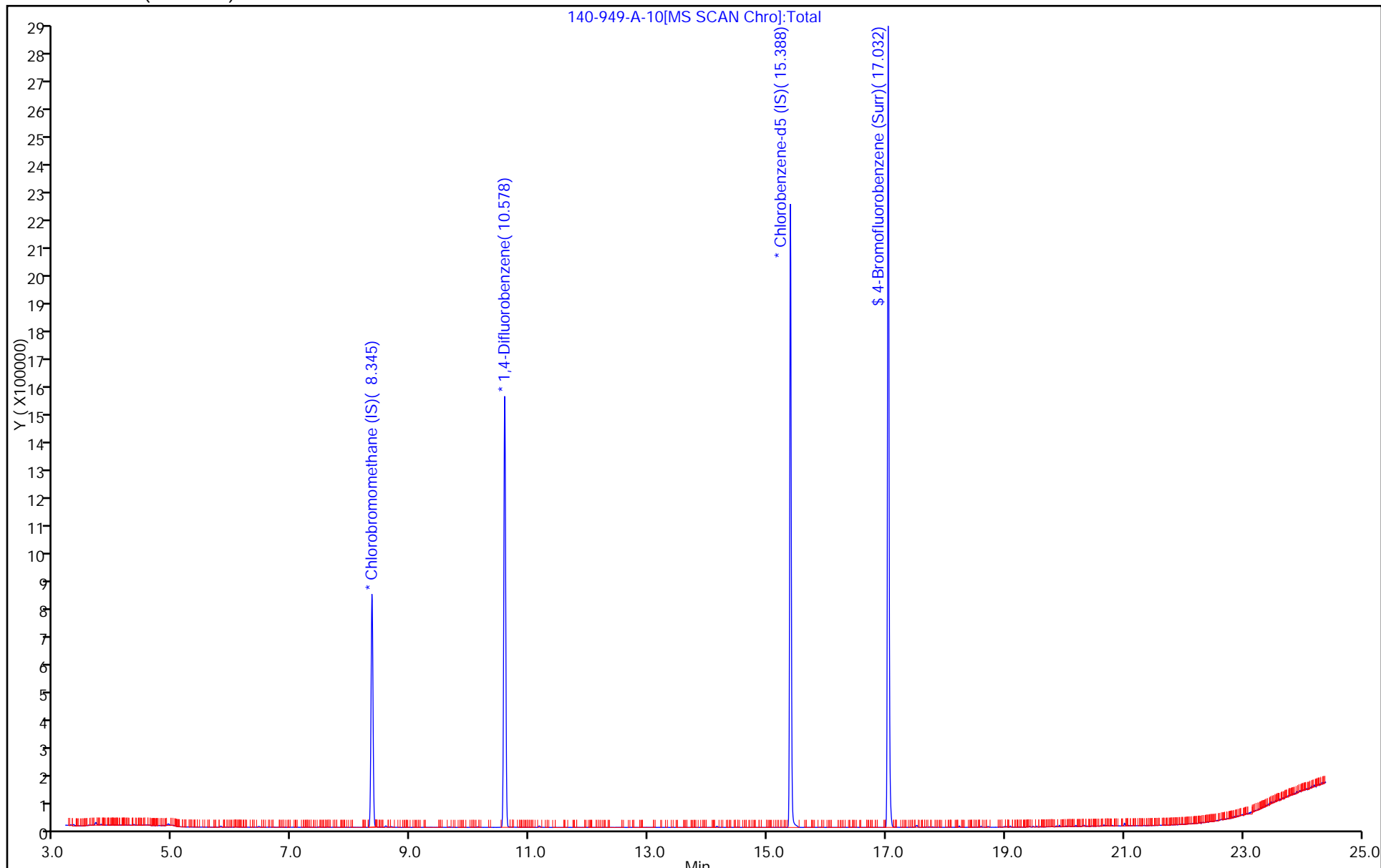
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10130 Lab Sample ID: 140-949-11
 Matrix: Air Lab File ID: 140-949-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 20:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	0.22		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10130 Lab Sample ID: 140-949-11
 Matrix: Air Lab File ID: 140-949-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 20:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10130 Lab Sample ID: 140-949-11
 Matrix: Air Lab File ID: 140-949-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 20:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10130 Lab Sample ID: 140-949-11
 Matrix: Air Lab File ID: 140-949-A-11.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 20:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
 Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D
 Lims ID: 140-949-A-11 Lab Sample ID: 140-949-11
 Client ID: 10130
 Sample Type: Client
 Inject. Date: 25-Feb-2014 20:23:30 ALS Bottle#: 11 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10130
 Misc. Info.: E022514,TO155,,140-0000471-014
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 08:16:25 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:16:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	245700	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	96	1254222	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	92	1098538	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	966120	4.02	
59 1,4-Dioxane	88	11.586	11.564	0.022	84	7320	0.2185	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date: 25-Feb-2014 20:23:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-11

Lab Sample ID: 140-949-11

Worklist Smp#: 14

Client ID: 10130

Purge Vol: 500.000 mL

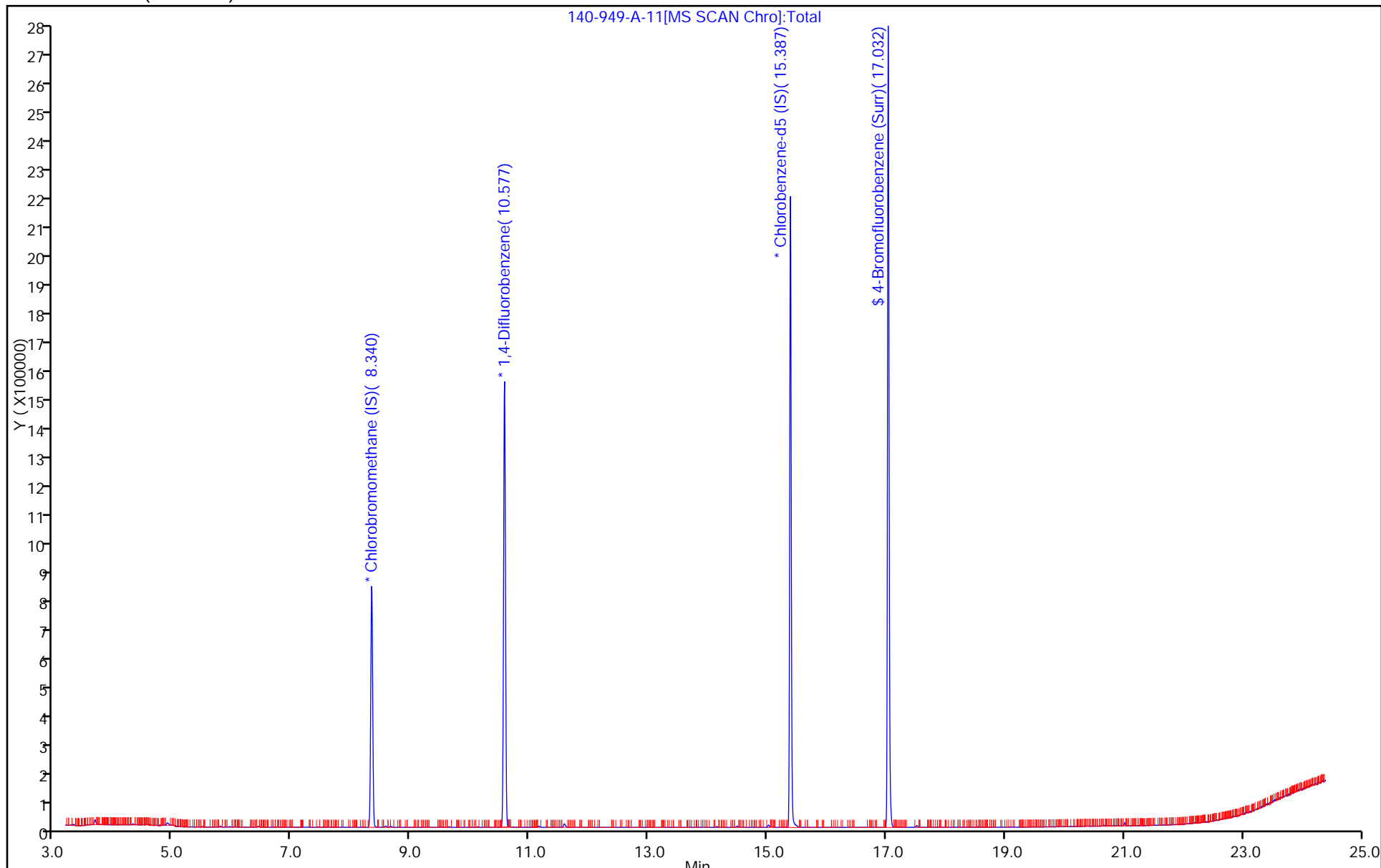
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-11.D

Injection Date: 25-Feb-2014 20:23:30

Instrument ID: ME

Lims ID: 140-949-A-11

Lab Sample ID: 140-949-11

Client ID: 10130

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 14

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

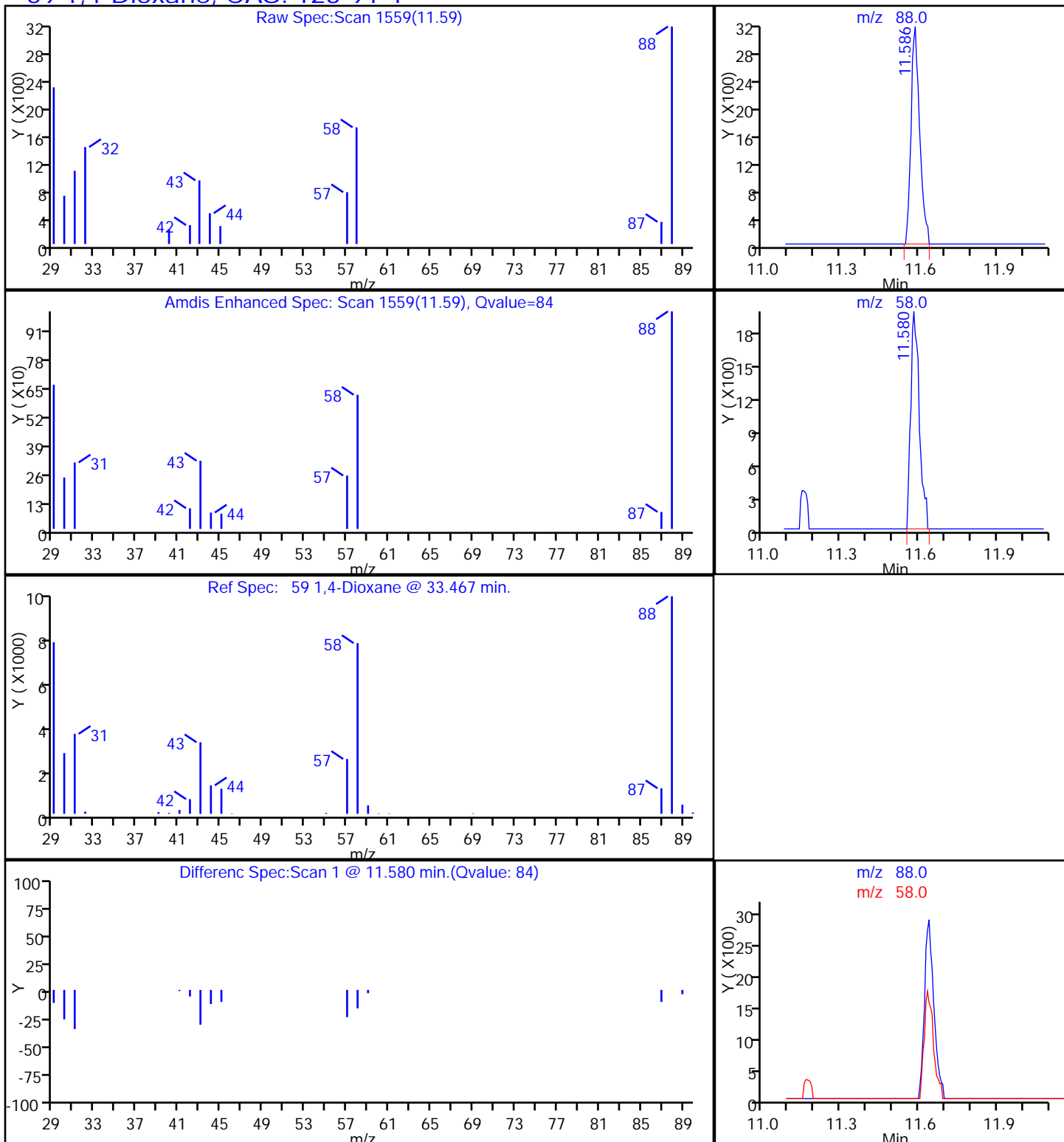
Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

59 1,4-Dioxane, CAS: 123-91-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10711 Lab Sample ID: 140-949-12
 Matrix: Air Lab File ID: 140-949-A-12.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10711 Lab Sample ID: 140-949-12
 Matrix: Air Lab File ID: 140-949-A-12.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10711 Lab Sample ID: 140-949-12
 Matrix: Air Lab File ID: 140-949-A-12.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10711 Lab Sample ID: 140-949-12
 Matrix: Air Lab File ID: 140-949-A-12.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 21:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D
 Lims ID: 140-949-A-12 Lab Sample ID: 140-949-12
 Client ID: 10711
 Sample Type: Client
 Inject. Date: 25-Feb-2014 21:09:30 ALS Bottle#: 12 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10711
 Misc. Info.: E022514,TO155,,140-0000471-015
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 08:16:51 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh

Date: 26-Feb-2014 08:16:51

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	239168	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1193974	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	94	1063904	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	84	940008	4.03	
33 Carbon disulfide	76	5.951	5.946	0.005	97	14820	0.0599	
62 4-Methyl-2-pentanone (MIBK)	43	12.530	12.519	0.011	93	21418	0.1514	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-12.D

Injection Date: 25-Feb-2014 21:09:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-12

Lab Sample ID: 140-949-12

Worklist Smp#: 15

Client ID: 10711

Purge Vol: 500.000 mL

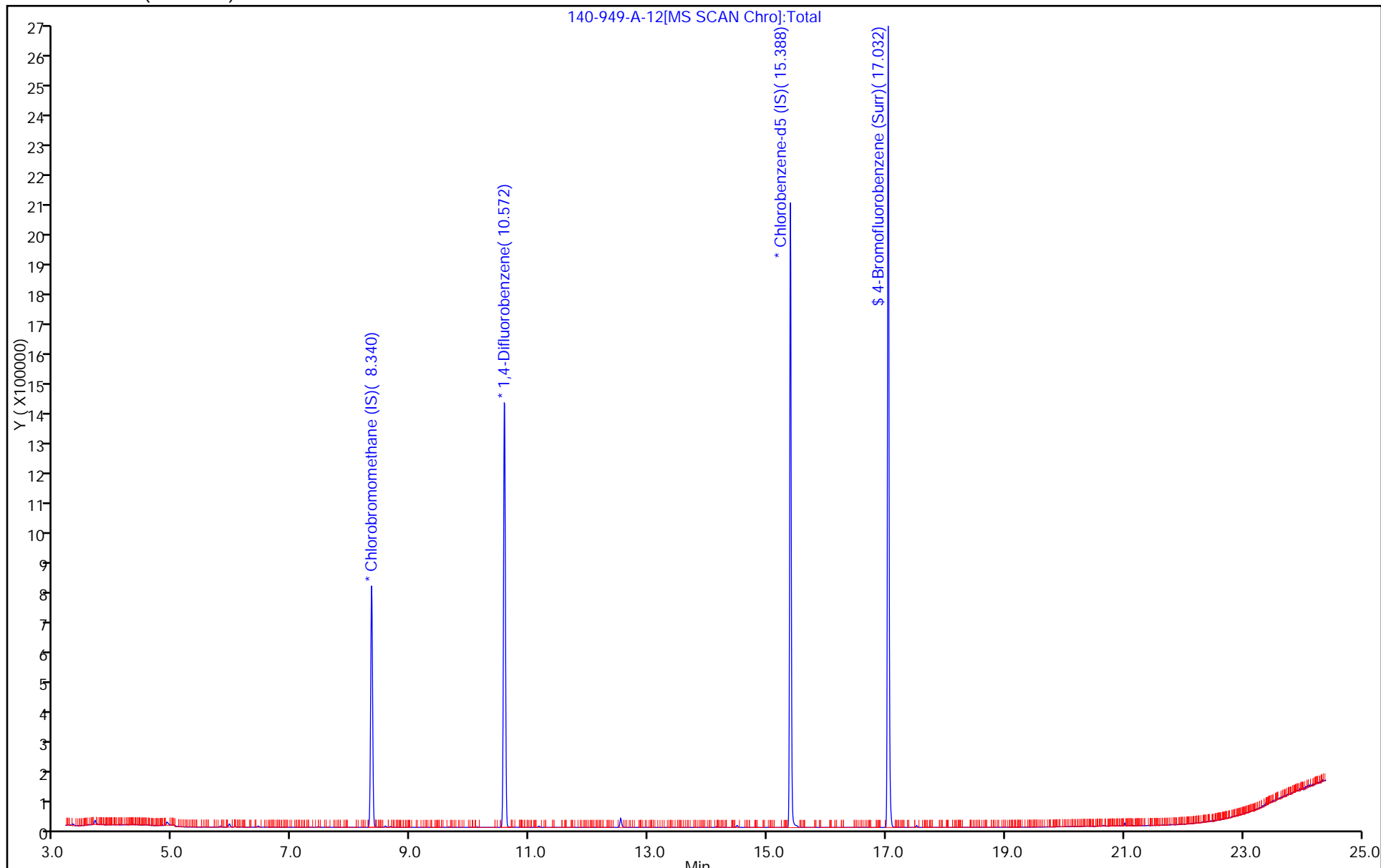
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10536 Lab Sample ID: 140-949-13
 Matrix: Air Lab File ID: 140-949-A-13.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10536 Lab Sample ID: 140-949-13
 Matrix: Air Lab File ID: 140-949-A-13.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10536 Lab Sample ID: 140-949-13
 Matrix: Air Lab File ID: 140-949-A-13.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 21:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10536 Lab Sample ID: 140-949-13
 Matrix: Air Lab File ID: 140-949-A-13.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 21:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D
 Lims ID: 140-949-A-13 Lab Sample ID: 140-949-13
 Client ID: 10536
 Sample Type: Client
 Inject. Date: 25-Feb-2014 21:54:30 ALS Bottle#: 13 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10536
 Misc. Info.: E022514,TO155,,140-0000471-016
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 08:17:10 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh Date: 26-Feb-2014 08:17:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	223080	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	96	1117429	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	93	1027674	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	920341	4.09	
9 Chloromethane	52	3.540	3.530	0.010	73	1932	0.0981	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-13.D

Injection Date: 25-Feb-2014 21:54:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-13

Lab Sample ID: 140-949-13

Worklist Smp#: 16

Client ID: 10536

Purge Vol: 500.000 mL

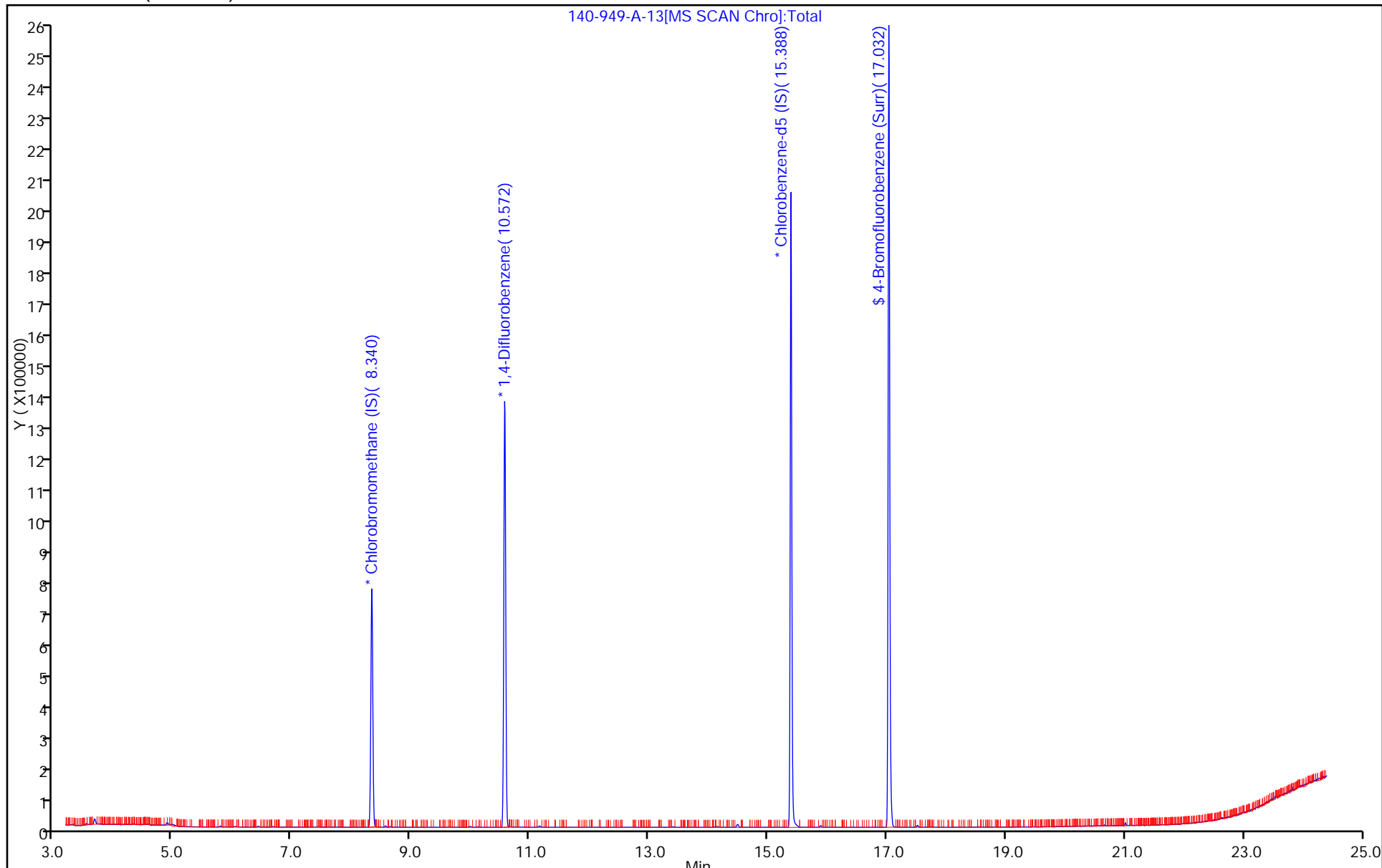
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10729 Lab Sample ID: 140-949-14
 Matrix: Air Lab File ID: 140-949-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10729 Lab Sample ID: 140-949-14
 Matrix: Air Lab File ID: 140-949-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10729 Lab Sample ID: 140-949-14
 Matrix: Air Lab File ID: 140-949-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/25/2014 22:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-949-1
 SDG No.: _____
 Client Sample ID: 10729 Lab Sample ID: 140-949-14
 Matrix: Air Lab File ID: 140-949-A-14.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2014 12:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/25/2014 22:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 886 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D
 Lims ID: 140-949-A-14 Lab Sample ID: 140-949-14
 Client ID: 10729
 Sample Type: Client
 Inject. Date: 25-Feb-2014 22:40:30 ALS Bottle#: 14 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10729
 Misc. Info.: E022514,TO155,,140-0000471-017
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140224-471.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 26-Feb-2014 08:17:32 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: tajh

Date: 26-Feb-2014 08:17:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	83	238652	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1191848	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	92	1067633	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	85	949012	4.06	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.519	0.016	75	4783	0.0339	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140224-471.b\140-949-A-14.D

Injection Date: 25-Feb-2014 22:40:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-949-A-14

Lab Sample ID: 140-949-14

Worklist Smp#: 17

Client ID: 10729

Purge Vol: 500.000 mL

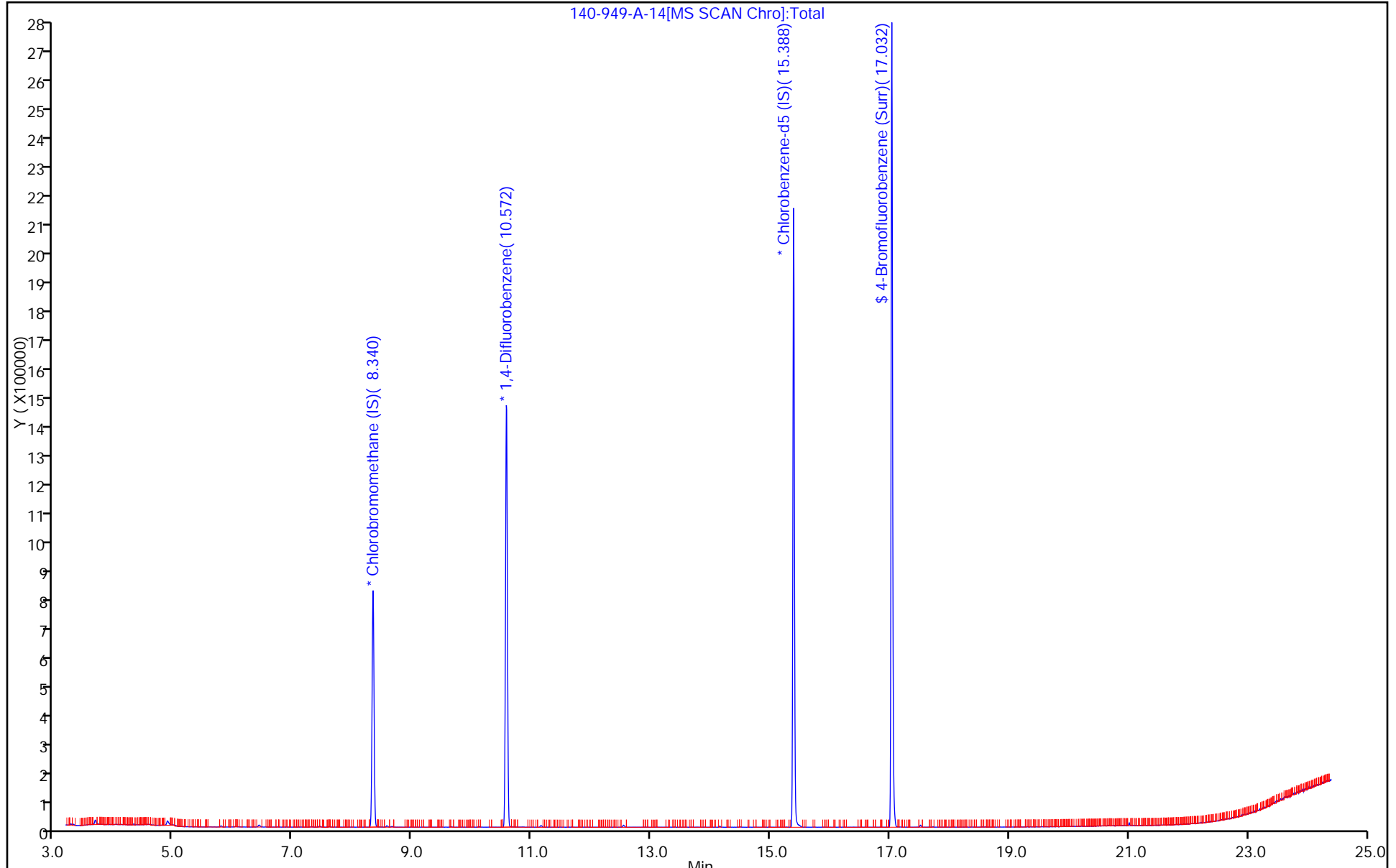
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-961-1
 SDG No.: _____
 Client Sample ID: 34000296 Lab Sample ID: 140-961-8
 Matrix: Air Lab File ID: 140-961-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/28/2014 06:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 893 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-961-1
 SDG No.: _____
 Client Sample ID: 34000296 Lab Sample ID: 140-961-8
 Matrix: Air Lab File ID: 140-961-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/28/2014 06:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 893 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND	*	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-961-1
 SDG No.: _____
 Client Sample ID: 34000296 Lab Sample ID: 140-961-8
 Matrix: Air Lab File ID: 140-961-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:40
 Sample wt/vol: 500(mL) Date Analyzed: 02/28/2014 06:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 893 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-961-1
 SDG No.: _____
 Client Sample ID: 34000296 Lab Sample ID: 140-961-8
 Matrix: Air Lab File ID: 140-961-a-8.D
 Analysis Method: TO 15 LL Date Collected: 02/26/2014 11:40
 Sample wt/vol: 500 (mL) Date Analyzed: 02/28/2014 06:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 893 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140226-479.b\140-961-a-8.D
 Lims ID: 140-961-A-8 Lab Sample ID: 140-961-8
 Client ID: 34000296
 Sample Type: Client
 Inject. Date: 28-Feb-2014 06:22:30 ALS Bottle#: 1 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 34000296
 Misc. Info.: J022714,TO15,,140-0000479-023
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140226-479.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 28-Feb-2014 07:39:07 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: tajh Date: 28-Feb-2014 07:39:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.392	9.401	-0.009	93	202465	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.558	-0.009	94	957294	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.213	16.217	-0.004	94	792857	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.832	17.831	0.001	82	599583	3.79	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140226-479.b\140-961-a-8.D

Injection Date: 28-Feb-2014 06:22:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-961-A-8

Lab Sample ID: 140-961-8

Worklist Smp#: 23

Client ID: 34000296

Purge Vol: 500.000 mL

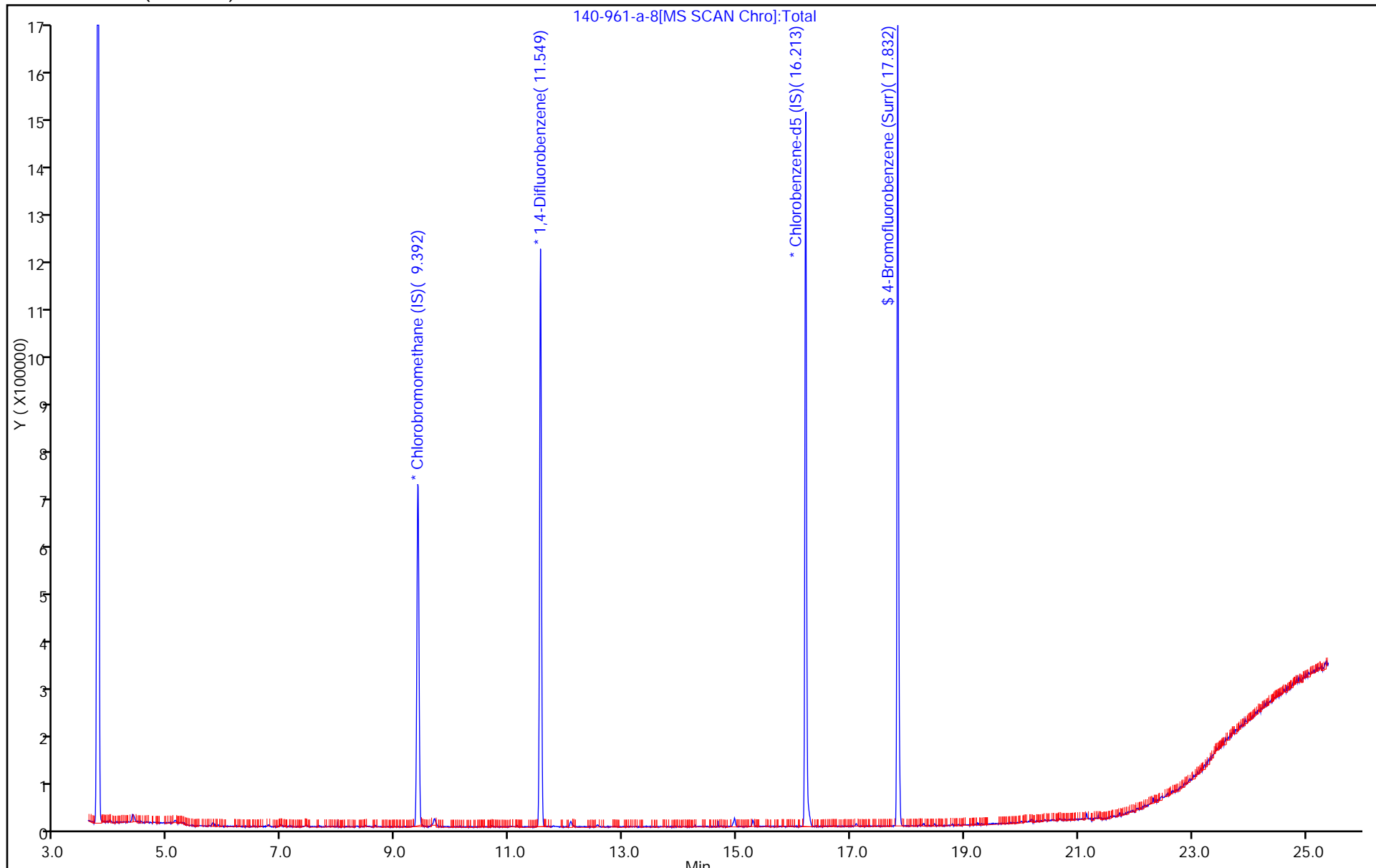
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-995-1
 SDG No.: _____
 Client Sample ID: 10820 Lab Sample ID: 140-995-6
 Matrix: Air Lab File ID: 140-995-a-6.D
 Analysis Method: TO 15 LL Date Collected: 03/04/2014 12:50
 Sample wt/vol: 500(mL) Date Analyzed: 03/05/2014 11:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 916 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-995-1
 SDG No.: _____
 Client Sample ID: 10820 Lab Sample ID: 140-995-6
 Matrix: Air Lab File ID: 140-995-a-6.D
 Analysis Method: TO 15 LL Date Collected: 03/04/2014 12:50
 Sample wt/vol: 500(mL) Date Analyzed: 03/05/2014 11:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 916 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-995-1
 SDG No.: _____
 Client Sample ID: 10820 Lab Sample ID: 140-995-6
 Matrix: Air Lab File ID: 140-995-a-6.D
 Analysis Method: TO 15 LL Date Collected: 03/04/2014 12:50
 Sample wt/vol: 500(mL) Date Analyzed: 03/05/2014 11:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 916 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-995-1
 SDG No.: _____
 Client Sample ID: 10820 Lab Sample ID: 140-995-6
 Matrix: Air Lab File ID: 140-995-a-6.D
 Analysis Method: TO 15 LL Date Collected: 03/04/2014 12:50
 Sample wt/vol: 500 (mL) Date Analyzed: 03/05/2014 11:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 916 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140304-497.b\140-995-a-6.D
 Lims ID: 140-995-A-6 Lab Sample ID: 140-995-6
 Client ID: 10820
 Sample Type: Client
 Inject. Date: 05-Mar-2014 11:59:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10820
 Misc. Info.: E030514,TO155,,140-0000497-005
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140304-497.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 05-Mar-2014 12:38:52 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK040

First Level Reviewer: tajh

Date: 05-Mar-2014 12:38:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	78	318828	4.00	
* 2 1,4-Difluorobenzene	114	10.572	10.583	-0.011	95	1583502	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.388	15.388	0.0	89	1392184	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.033	-0.001	88	1176002	3.86	
19 2-Methylbutane	43	4.538	4.544	-0.006	70	1545	0.0138	
44 Tetrahydrofuran	42	8.787	8.761	0.026	75	3595	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	12.535	12.525	0.010	81	6775	0.0361	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140304-497.b\140-995-a-6.D

Injection Date: 05-Mar-2014 11:59:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-995-A-6

Lab Sample ID: 140-995-6

Worklist Smp#: 5

Client ID: 10820

Purge Vol: 500.000 mL

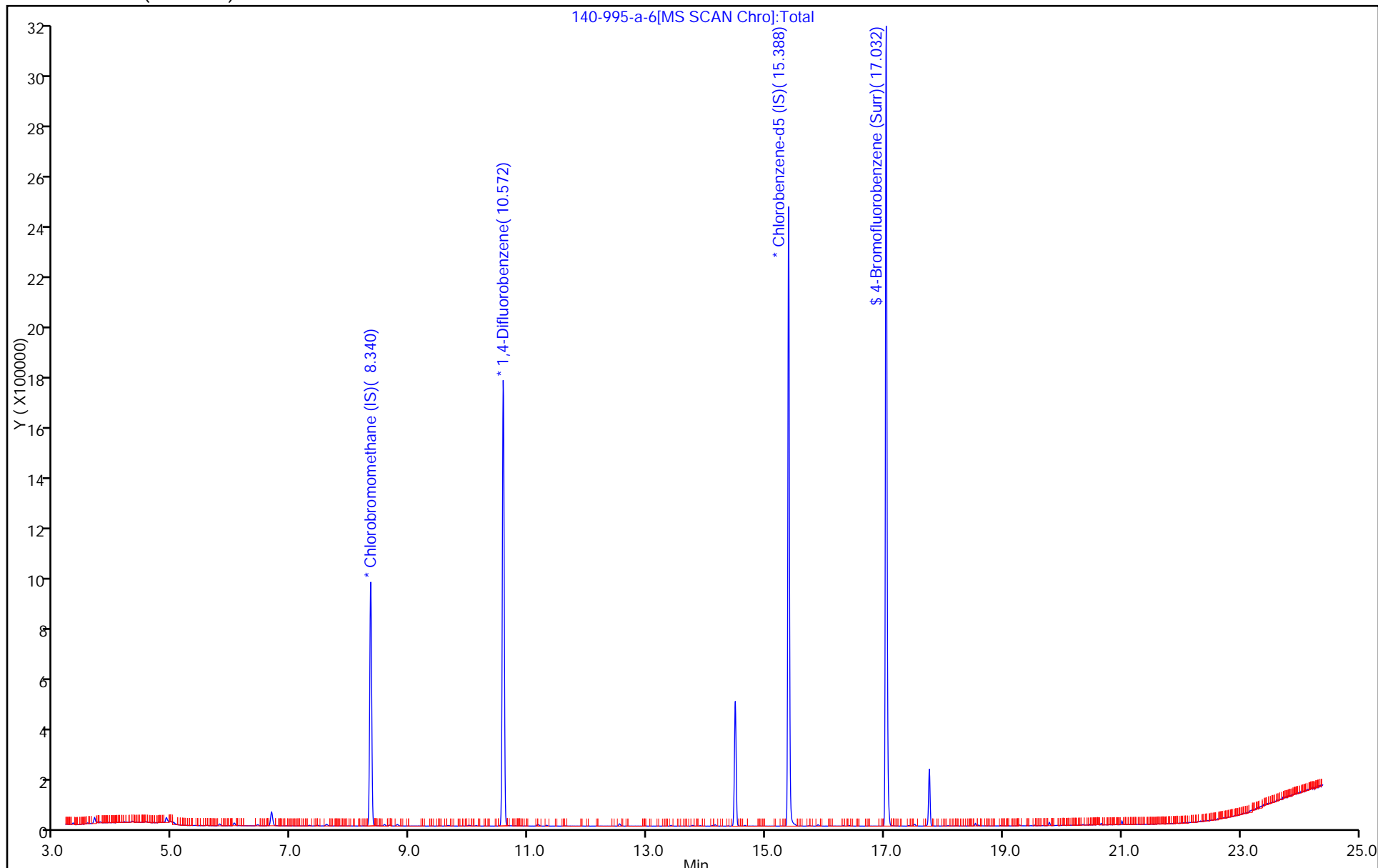
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information
 Company: **AECOM**
 Address: **125 Broad Street**
 City/State/Zip: **New York, NY 10004**
 Phone: **212-377-8460**
 FAX: **212-377-8460**
 Project Name: **Stuyvesant town IA**
 Site/location: **Stuyvesant town NYC**
 PO #

Project Manager: **Jennifer Pfeiffer**
 Phone: **516-581-7313**
 Site Contact: **Jessica Ehlen**
 TAL Contact: **Jamie McKinney**

Analysis Turnaround Time
 Standard (Specify): **Standard**
 Rush (Specify)

Sampled By: **Jessica Ehlen** 1 of 1 COCs



Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Sample 1 - Crawlspace	3/15/14	0727	1532	-30	-6.5	5175	09610	X						X					73°F
Sample 2 - Room #4	3/15/14	0820	1545	-30	-7.5	10162	3400296	X						X					72°F
Sample 3 - Room #2	3/15/14	0722	1525	-29.5	-5	2616	10811	X						X					72°F
Sample 4 - Ambient	3/15/14	0732	1457	-30	-5	10049	10313	X							X				53°F
Sample 5 - Room #11	3/15/14	0734	1528	-29	-6.5	11052	10123	X						X					68°F

Sampled by: **J. Ehlen**

Temperature (Fahrenheit)
 Interior: **48°**
 Ambient: **57°**

Pressure (Inches of Hg)
 Interior: **29.78**
 Ambient: **29.79**

Received @ ambient
 No Custody
 J boxes 18/H
 K W 3/18/H
 FedEx SO
 #16# 7982 3929 4129
 #1# 7982 3752 3066
 #1# 7982 3752 2964

Special Instructions/QC Requirements & Comments:
*** other = Temp of room in which samples were collected.**

Canisters Shipped by: **J. Ehlen**

Canisters Received by: **J. Ehlen**

Samples Relinquished by: **J. Ehlen**

Relinquished by: **J. Ehlen**

Date/Time: **3/17/14 @ 9:30**

Date/Time: **3/17/14 @ 9:40**

8 cans
 9 flows
 23 cc

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1065-1

Login Number: 1065

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

ANALYTICAL REPORT

Job Number: 140-1073-1

Job Description: PCV/ST

For:

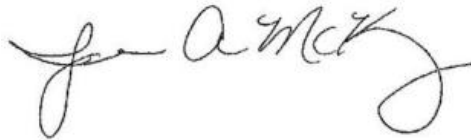
AECOM, Inc.

125 Broad Street

16th Floor

New York, NY 10004

Attention: Ms. Jennifer E Pfeiffer



Approved for release.
Jamie A McKinney
Senior Project Manager
3/31/2014 3:42 PM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/31/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

TestAmerica Laboratories, Inc.

TestAmerica Knoxville 5815 Middlebrook Pike, Knoxville, TN 37921

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Definitions/Glossary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
E	Result exceeded calibration range.
cn	Refer to Case Narrative for further detail

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
140-1073-1

Comments

No additional comments.

Receipt

The samples were received on 3/19/2014 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. SAMPLE 1-CRAWLSPACE was the only sample received with this shipment.

Air - GC/MS VOA

There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

No other analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.093	J	0.50	0.039	ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.59	J	1.0	0.20	ppb v/v	1		TO-15	Total/NA
2-Methylbutane	0.71		0.50	0.031	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.13	J	0.50	0.045	ppb v/v	1		TO-15	Total/NA
Acetone	5.9	*	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Benzene	0.28		0.20	0.056	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.080	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloroform	0.091	J	0.20	0.038	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.52		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.13	J	0.50	0.040	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.69		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Ethanol	230	E	2.0	2.0	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.12	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Heptane	0.38	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Hexane	0.16	J	0.50	0.032	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	6.1		2.0	0.094	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.25	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
m-Xylene & p-Xylene	0.28		0.20	0.12	ppb v/v	1		TO-15	Total/NA
o-Xylene	0.12	J	0.20	0.061	ppb v/v	1		TO-15	Total/NA
Propene	0.93	cn	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Styrene	0.086	J	0.20	0.058	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.17	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Toluene	1.5		0.20	0.12	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v	1		TO-15	Total/NA
Ethanol - DL	240		4.0	4.0	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.55	J	0.98	0.31	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.43	J	2.3	0.18	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.7	J	2.9	0.59	ug/m3	1		TO-15	Total/NA
2-Methylbutane	2.1		1.5	0.091	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.51	J	2.0	0.18	ug/m3	1		TO-15	Total/NA
Acetone	14	*	12	3.3	ug/m3	1		TO-15	Total/NA
Benzene	0.91		0.64	0.18	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.50	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chloroform	0.44	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.1		1.0	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.46	J	1.7	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	3.4		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethanol	430	E	3.8	3.8	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.52	J	0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.6	J	2.0	0.19	ug/m3	1		TO-15	Total/NA
Hexane	0.55	J	1.8	0.11	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	15		4.9	0.23	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.86	J	1.7	0.45	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE (Continued)

Lab Sample ID: 140-1073-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.52	J	0.87	0.26	ug/m3	1		TO-15	Total/NA
Propene	1.6	cn	0.86	0.13	ug/m3	1		TO-15	Total/NA
Styrene	0.36	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	5.7		0.75	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3	1		TO-15	Total/NA
Ethanol - DL	450		7.5	7.5	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 23:34	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 23:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/21/14 23:34	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 23:34	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 23:34	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 23:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 23:34	1
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v			03/21/14 23:34	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 23:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 23:34	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 23:34	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 23:34	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 23:34	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 23:34	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 23:34	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 23:34	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 23:34	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 23:34	1
2,2,4-Trimethylpentane	0.093	J	0.50	0.039	ppb v/v			03/21/14 23:34	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
2-Butanone (MEK)	0.59	J	1.0	0.20	ppb v/v			03/21/14 23:34	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 23:34	1
2-Methylbutane	0.71		0.50	0.031	ppb v/v			03/21/14 23:34	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v			03/21/14 23:34	1
4-Methyl-2-pentanone (MIBK)	0.13	J	0.50	0.045	ppb v/v			03/21/14 23:34	1
Acetone	5.9	*	5.0	1.4	ppb v/v			03/21/14 23:34	1
Benzene	0.28		0.20	0.056	ppb v/v			03/21/14 23:34	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 23:34	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 23:34	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 23:34	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 23:34	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 23:34	1
Carbon tetrachloride	0.080	J	0.20	0.038	ppb v/v			03/21/14 23:34	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 23:34	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 23:34	1
Chloroform	0.091	J	0.20	0.038	ppb v/v			03/21/14 23:34	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/21/14 23:34	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 23:34	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 23:34	1
Cyclohexane	0.13	J	0.50	0.040	ppb v/v			03/21/14 23:34	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 23:34	1
Dichlorodifluoromethane	0.69		0.20	0.068	ppb v/v			03/21/14 23:34	1
Ethanol	230	E	2.0	2.0	ppb v/v			03/21/14 23:34	1
Ethylbenzene	0.12	J	0.20	0.068	ppb v/v			03/21/14 23:34	1
Heptane	0.38	J	0.50	0.047	ppb v/v			03/21/14 23:34	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 23:34	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.16	J	0.50	0.032	ppb v/v			03/21/14 23:34	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 23:34	1
Isopropyl alcohol	6.1		2.0	0.094	ppb v/v			03/21/14 23:34	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 23:34	1
Methylene Chloride	0.25	J	0.50	0.13	ppb v/v			03/21/14 23:34	1
m-Xylene & p-Xylene	0.28		0.20	0.12	ppb v/v			03/21/14 23:34	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 23:34	1
o-Xylene	0.12	J	0.20	0.061	ppb v/v			03/21/14 23:34	1
Propene	0.93	cn	0.50	0.077	ppb v/v			03/21/14 23:34	1
Styrene	0.086	J	0.20	0.058	ppb v/v			03/21/14 23:34	1
Tetrachloroethene	0.17	J	0.20	0.040	ppb v/v			03/21/14 23:34	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 23:34	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
Toluene	1.5		0.20	0.12	ppb v/v			03/21/14 23:34	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 23:34	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 23:34	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 23:34	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/21/14 23:34	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 23:34	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 23:34	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 23:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/21/14 23:34	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 23:34	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 23:34	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 23:34	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 23:34	1
1,2,4-Trimethylbenzene	0.55	J	0.98	0.31	ug/m3			03/21/14 23:34	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 23:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 23:34	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 23:34	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 23:34	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 23:34	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 23:34	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 23:34	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 23:34	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 23:34	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 23:34	1
2,2,4-Trimethylpentane	0.43	J	2.3	0.18	ug/m3			03/21/14 23:34	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 23:34	1
2-Butanone (MEK)	1.7	J	2.9	0.59	ug/m3			03/21/14 23:34	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 23:34	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/21/14 23:34	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 23:34	1
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3			03/21/14 23:34	1
4-Methyl-2-pentanone (MIBK)	0.51	J	2.0	0.18	ug/m3			03/21/14 23:34	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	*	12	3.3	ug/m3			03/21/14 23:34	1
Benzene	0.91		0.64	0.18	ug/m3			03/21/14 23:34	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 23:34	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 23:34	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 23:34	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 23:34	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 23:34	1
Carbon tetrachloride	0.50	J	1.3	0.24	ug/m3			03/21/14 23:34	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 23:34	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 23:34	1
Chloroform	0.44	J	0.98	0.19	ug/m3			03/21/14 23:34	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/21/14 23:34	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 23:34	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 23:34	1
Cyclohexane	0.46	J	1.7	0.14	ug/m3			03/21/14 23:34	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 23:34	1
Dichlorodifluoromethane	3.4		0.99	0.34	ug/m3			03/21/14 23:34	1
Ethanol	430	E	3.8	3.8	ug/m3			03/21/14 23:34	1
Ethylbenzene	0.52	J	0.87	0.30	ug/m3			03/21/14 23:34	1
Heptane	1.6	J	2.0	0.19	ug/m3			03/21/14 23:34	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 23:34	1
Hexane	0.55	J	1.8	0.11	ug/m3			03/21/14 23:34	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 23:34	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 23:34	1
Isopropyl alcohol	15		4.9	0.23	ug/m3			03/21/14 23:34	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 23:34	1
Methylene Chloride	0.86	J	1.7	0.45	ug/m3			03/21/14 23:34	1
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3			03/21/14 23:34	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 23:34	1
o-Xylene	0.52	J	0.87	0.26	ug/m3			03/21/14 23:34	1
Propene	1.6	cn	0.86	0.13	ug/m3			03/21/14 23:34	1
Styrene	0.36	J	0.85	0.25	ug/m3			03/21/14 23:34	1
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3			03/21/14 23:34	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 23:34	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 23:34	1
Toluene	5.7		0.75	0.45	ug/m3			03/21/14 23:34	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 23:34	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 23:34	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 23:34	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/21/14 23:34	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		60 - 140		03/21/14 23:34	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	240		4.0	4.0	ppb v/v			03/24/14 22:33	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	450		7.5	7.5	ug/m3			03/24/14 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/24/14 22:33	1

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.030	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.16	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.061	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	0.031	ppb v/v	TO-15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.054	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.29	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.026	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.11	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.034	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.13	ug/m3	TO-15
1,2,4-Trichlorobenzene	1.0	0.098	ppb v/v	TO-15
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.063	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3	TO-15
1,2-Dibromoethane (EDB)	0.20	0.044	ppb v/v	TO-15
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20	0.032	ppb v/v	TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.070	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.42	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.047	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.19	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.052	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.24	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.065	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3	TO-15
1,3-Butadiene	0.40	0.064	ppb v/v	TO-15
1,3-Butadiene	0.88	0.14	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.065	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.39	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.064	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	0.50	0.080	ppb v/v	TO-15
1,4-Dioxane	1.8	0.29	ug/m3	TO-15
2,2,4-Trimethylpentane	0.50	0.039	ppb v/v	TO-15
2,2,4-Trimethylpentane	2.3	0.18	ug/m3	TO-15
2,3-Dimethylpentane	0.20	0.20	ppb v/v	TO-15
2,3-Dimethylpentane	0.82	0.82	ug/m3	TO-15
2-Butanone (MEK)	1.0	0.20	ppb v/v	TO-15
2-Butanone (MEK)	2.9	0.59	ug/m3	TO-15
2-Hexanone	0.50	0.058	ppb v/v	TO-15
2-Hexanone	2.0	0.24	ug/m3	TO-15
2-Methylbutane	0.50	0.031	ppb v/v	TO-15
2-Methylbutane	1.5	0.091	ug/m3	TO-15
2-Methylpentane	0.20	0.20	ppb v/v	TO-15
2-Methylpentane	0.70	0.70	ug/m3	TO-15
4-Ethyltoluene	0.40	0.066	ppb v/v	TO-15
4-Ethyltoluene	2.0	0.32	ug/m3	TO-15
4-Methyl-2-pentanone (MIBK)	0.50	0.045	ppb v/v	TO-15
4-Methyl-2-pentanone (MIBK)	2.0	0.18	ug/m3	TO-15

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Acetone	5.0	1.4	ppb v/v	TO-15
Acetone	12	3.3	ug/m3	TO-15
Benzene	0.20	0.056	ppb v/v	TO-15
Benzene	0.64	0.18	ug/m3	TO-15
Benzyl chloride	0.40	0.078	ppb v/v	TO-15
Benzyl chloride	2.1	0.40	ug/m3	TO-15
Bromodichloromethane	0.20	0.044	ppb v/v	TO-15
Bromodichloromethane	1.3	0.29	ug/m3	TO-15
Bromoform	0.20	0.048	ppb v/v	TO-15
Bromoform	2.1	0.50	ug/m3	TO-15
Bromomethane	0.20	0.032	ppb v/v	TO-15
Bromomethane	0.78	0.12	ug/m3	TO-15
Carbon disulfide	0.50	0.031	ppb v/v	TO-15
Carbon disulfide	1.6	0.097	ug/m3	TO-15
Carbon tetrachloride	0.20	0.038	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.24	ug/m3	TO-15
Chlorobenzene	0.20	0.049	ppb v/v	TO-15
Chlorobenzene	0.92	0.23	ug/m3	TO-15
Chloroethane	0.20	0.035	ppb v/v	TO-15
Chloroethane	0.53	0.092	ug/m3	TO-15
Chloroform	0.20	0.038	ppb v/v	TO-15
Chloroform	0.98	0.19	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.060	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.24	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.074	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.34	ug/m3	TO-15
Cyclohexane	0.50	0.040	ppb v/v	TO-15
Cyclohexane	1.7	0.14	ug/m3	TO-15
Dibromochloromethane	0.20	0.042	ppb v/v	TO-15
Dibromochloromethane	1.7	0.36	ug/m3	TO-15
Dichlorodifluoromethane	0.20	0.068	ppb v/v	TO-15
Dichlorodifluoromethane	0.99	0.34	ug/m3	TO-15
Ethanol	2.0	2.0	ppb v/v	TO-15
Ethanol	3.8	3.8	ug/m3	TO-15
Ethylbenzene	0.20	0.068	ppb v/v	TO-15
Ethylbenzene	0.87	0.30	ug/m3	TO-15
Heptane	0.50	0.047	ppb v/v	TO-15
Heptane	2.0	0.19	ug/m3	TO-15
Hexachlorobutadiene	1.0	0.078	ppb v/v	TO-15
Hexachlorobutadiene	11	0.83	ug/m3	TO-15
Hexane	0.50	0.032	ppb v/v	TO-15
Hexane	1.8	0.11	ug/m3	TO-15
Indane	0.20	0.20	ppb v/v	TO-15
Indane	0.97	0.97	ug/m3	TO-15
Indene	0.40	0.40	ppb v/v	TO-15
Indene	1.9	1.9	ug/m3	TO-15
Isopropyl alcohol	2.0	0.094	ppb v/v	TO-15
Isopropyl alcohol	4.9	0.23	ug/m3	TO-15
Methyl tert-butyl ether	1.0	0.17	ppb v/v	TO-15
Methyl tert-butyl ether	3.6	0.61	ug/m3	TO-15

Default Detection Limits

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.13	ppb v/v	TO-15
Methylene Chloride	1.7	0.45	ug/m3	TO-15
m-Xylene & p-Xylene	0.20	0.12	ppb v/v	TO-15
m-Xylene & p-Xylene	0.87	0.52	ug/m3	TO-15
Naphthalene	0.50	0.090	ppb v/v	TO-15
Naphthalene	2.6	0.47	ug/m3	TO-15
o-Xylene	0.20	0.061	ppb v/v	TO-15
o-Xylene	0.87	0.26	ug/m3	TO-15
Propene	0.50	0.077	ppb v/v	TO-15
Propene	0.86	0.13	ug/m3	TO-15
Styrene	0.20	0.058	ppb v/v	TO-15
Styrene	0.85	0.25	ug/m3	TO-15
Tetrachloroethene	0.20	0.040	ppb v/v	TO-15
Tetrachloroethene	1.4	0.27	ug/m3	TO-15
Tetrahydrofuran	1.0	0.063	ppb v/v	TO-15
Tetrahydrofuran	2.9	0.19	ug/m3	TO-15
Thiophene	0.20	0.20	ppb v/v	TO-15
Thiophene	0.69	0.69	ug/m3	TO-15
Toluene	0.20	0.12	ppb v/v	TO-15
Toluene	0.75	0.45	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.048	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.22	ug/m3	TO-15
Trichloroethene	0.20	0.036	ppb v/v	TO-15
Trichloroethene	1.1	0.19	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.024	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.13	ug/m3	TO-15
Vinyl chloride	0.20	0.071	ppb v/v	TO-15
Vinyl chloride	0.51	0.18	ug/m3	TO-15

Surrogate Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
140-1073-1 - DL	SAMPLE 1- CRAWLSPACE	96
140-1073-1	SAMPLE 1- CRAWLSPACE	91
LCS 140-1000/1002	Lab Control Sample	99
LCS 140-984/1002	Lab Control Sample	100
MB 140-1000/1004	Method Blank	93
MB 140-984/5	Method Blank	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-1000/1004

Matrix: Air

Analysis Batch: 1000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/24/14 10:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/24/14 10:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/24/14 10:59	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/24/14 10:59	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/24/14 10:59	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/24/14 10:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/24/14 10:59	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/24/14 10:59	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/24/14 10:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/24/14 10:59	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/24/14 10:59	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/24/14 10:59	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/24/14 10:59	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/24/14 10:59	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/24/14 10:59	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/24/14 10:59	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/24/14 10:59	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/24/14 10:59	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/24/14 10:59	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/24/14 10:59	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/24/14 10:59	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/24/14 10:59	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/24/14 10:59	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/24/14 10:59	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/24/14 10:59	1
4-Methyl-2-pentanone (MIBK)	0.506		0.50	0.045	ppb v/v			03/24/14 10:59	1
Acetone	ND		5.0	1.4	ppb v/v			03/24/14 10:59	1
Benzene	ND		0.20	0.056	ppb v/v			03/24/14 10:59	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/24/14 10:59	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/24/14 10:59	1
Bromoform	ND		0.20	0.048	ppb v/v			03/24/14 10:59	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/24/14 10:59	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/24/14 10:59	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/24/14 10:59	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/24/14 10:59	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/24/14 10:59	1
Chloroform	ND		0.20	0.038	ppb v/v			03/24/14 10:59	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/24/14 10:59	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/24/14 10:59	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/24/14 10:59	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/24/14 10:59	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/24/14 10:59	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/24/14 10:59	1
Ethanol	ND		2.0	2.0	ppb v/v			03/24/14 10:59	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/24/14 10:59	1
Heptane	ND		0.50	0.047	ppb v/v			03/24/14 10:59	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/24/14 10:59	1
Hexane	ND		0.50	0.032	ppb v/v			03/24/14 10:59	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-1000/1004

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 1000

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/24/14 10:59	1
Indene	ND		0.40	0.40	ppb v/v			03/24/14 10:59	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/24/14 10:59	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/24/14 10:59	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/24/14 10:59	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/24/14 10:59	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/24/14 10:59	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/24/14 10:59	1
Propene	ND		0.50	0.077	ppb v/v			03/24/14 10:59	1
Styrene	ND		0.20	0.058	ppb v/v			03/24/14 10:59	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/24/14 10:59	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/24/14 10:59	1
Thiophene	ND		0.20	0.20	ppb v/v			03/24/14 10:59	1
Toluene	ND		0.20	0.12	ppb v/v			03/24/14 10:59	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/24/14 10:59	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/24/14 10:59	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/24/14 10:59	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/24/14 10:59	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/24/14 10:59	1

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/24/14 10:59	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/24/14 10:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/24/14 10:59	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/24/14 10:59	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/24/14 10:59	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/24/14 10:59	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/24/14 10:59	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/24/14 10:59	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/24/14 10:59	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/24/14 10:59	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/24/14 10:59	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/24/14 10:59	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/24/14 10:59	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/24/14 10:59	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/24/14 10:59	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/24/14 10:59	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/24/14 10:59	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/24/14 10:59	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/24/14 10:59	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/24/14 10:59	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/24/14 10:59	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/24/14 10:59	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/24/14 10:59	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/24/14 10:59	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/24/14 10:59	1
4-Methyl-2-pentanone (MIBK)	2.07		2.0	0.18	ug/m3			03/24/14 10:59	1
Acetone	ND		12	3.3	ug/m3			03/24/14 10:59	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-1000/1004

Matrix: Air

Analysis Batch: 1000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/24/14 10:59	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/24/14 10:59	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/24/14 10:59	1
Bromoform	ND		2.1	0.50	ug/m3			03/24/14 10:59	1
Bromomethane	ND		0.78	0.12	ug/m3			03/24/14 10:59	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/24/14 10:59	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/24/14 10:59	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/24/14 10:59	1
Chloroethane	ND		0.53	0.092	ug/m3			03/24/14 10:59	1
Chloroform	ND		0.98	0.19	ug/m3			03/24/14 10:59	1
Chloromethane	ND		1.0	0.33	ug/m3			03/24/14 10:59	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/24/14 10:59	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/24/14 10:59	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/24/14 10:59	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/24/14 10:59	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/24/14 10:59	1
Ethanol	ND		3.8	3.8	ug/m3			03/24/14 10:59	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/24/14 10:59	1
Heptane	ND		2.0	0.19	ug/m3			03/24/14 10:59	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/24/14 10:59	1
Hexane	ND		1.8	0.11	ug/m3			03/24/14 10:59	1
Indane	ND		0.97	0.97	ug/m3			03/24/14 10:59	1
Indene	ND		1.9	1.9	ug/m3			03/24/14 10:59	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/24/14 10:59	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/24/14 10:59	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/24/14 10:59	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/24/14 10:59	1
Naphthalene	ND		2.6	0.47	ug/m3			03/24/14 10:59	1
o-Xylene	ND		0.87	0.26	ug/m3			03/24/14 10:59	1
Propene	ND		0.86	0.13	ug/m3			03/24/14 10:59	1
Styrene	ND		0.85	0.25	ug/m3			03/24/14 10:59	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/24/14 10:59	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/24/14 10:59	1
Thiophene	ND		0.69	0.69	ug/m3			03/24/14 10:59	1
Toluene	ND		0.75	0.45	ug/m3			03/24/14 10:59	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/24/14 10:59	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/24/14 10:59	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/24/14 10:59	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/24/14 10:59	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/24/14 10:59	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140					03/24/14 10:59	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-1000/1002

Matrix: Air

Analysis Batch: 1000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.89		ppb v/v		94	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.89		ppb v/v		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1-Dichloroethane	2.00	1.91		ppb v/v		95	70 - 130
1,1-Dichloroethene	2.00	2.21		ppb v/v		110	70 - 130
1,2,4-Trichlorobenzene	2.00	1.72		ppb v/v		86	60 - 140
1,2,4-Trimethylbenzene	2.00	1.88		ppb v/v		94	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.82		ppb v/v		91	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.17		ppb v/v		108	60 - 140
1,2-Dichlorobenzene	2.00	1.62		ppb v/v		81	70 - 130
1,2-Dichloroethane	2.00	1.96		ppb v/v		98	70 - 130
1,2-Dichloropropane	2.00	1.74		ppb v/v		87	70 - 130
1,3,5-Trimethylbenzene	2.00	1.88		ppb v/v		94	70 - 130
1,3-Butadiene	2.00	2.06		ppb v/v		103	60 - 140
1,3-Dichlorobenzene	2.00	1.62		ppb v/v		81	70 - 130
1,4-Dichlorobenzene	2.00	1.60		ppb v/v		80	70 - 130
1,4-Dioxane	2.00	1.72		ppb v/v		86	60 - 140
2,2,4-Trimethylpentane	2.00	1.78		ppb v/v		89	70 - 130
2,3-Dimethylpentane	2.00	1.81		ppb v/v		91	20 - 180
2-Butanone (MEK)	2.00	1.82		ppb v/v		91	60 - 140
2-Hexanone	2.00	1.94		ppb v/v		97	60 - 140
2-Methylbutane	2.00	1.92		ppb v/v		96	70 - 130
2-Methylpentane	2.00	1.92		ppb v/v		96	20 - 180
4-Ethyltoluene	2.00	1.91		ppb v/v		96	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.89		ppb v/v		94	60 - 140
Acetone	2.00	1.15	J *	ppb v/v		58	60 - 140
Benzene	2.00	1.88		ppb v/v		94	70 - 130
Benzyl chloride	2.00	1.79		ppb v/v		89	70 - 130
Bromodichloromethane	2.00	1.80		ppb v/v		90	70 - 130
Bromoform	2.00	1.68		ppb v/v		84	60 - 140
Bromomethane	2.00	1.92		ppb v/v		96	70 - 130
Carbon disulfide	2.00	1.94		ppb v/v		97	70 - 130
Carbon tetrachloride	2.00	1.77		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.74		ppb v/v		87	70 - 130
Chloroethane	2.00	1.94		ppb v/v		97	70 - 130
Chloroform	2.00	1.85		ppb v/v		93	70 - 130
Chloromethane	2.00	2.01		ppb v/v		100	60 - 140
cis-1,2-Dichloroethene	2.00	1.97		ppb v/v		99	70 - 130
cis-1,3-Dichloropropene	2.00	1.73		ppb v/v		86	70 - 130
Cyclohexane	2.00	1.98		ppb v/v		99	70 - 130
Dibromochloromethane	2.00	1.84		ppb v/v		92	70 - 130
Dichlorodifluoromethane	2.00	2.08		ppb v/v		104	60 - 140
Ethanol	10.0	9.59		ppb v/v		96	20 - 180
Ethylbenzene	2.00	1.88		ppb v/v		94	70 - 130
Heptane	2.00	1.77		ppb v/v		89	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-1000/1002

Matrix: Air

Analysis Batch: 1000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.50		ppb v/v		75	60 - 140
Hexane	2.00	1.79		ppb v/v		90	70 - 130
Indane	2.00	1.83		ppb v/v		91	20 - 180
Indene	2.00	1.91		ppb v/v		95	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.90		ppb v/v		95	60 - 140
Methylene Chloride	2.00	2.11		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	3.63		ppb v/v		91	70 - 130
Naphthalene	2.00	1.70		ppb v/v		85	40 - 140
o-Xylene	2.00	1.84		ppb v/v		92	70 - 130
Propene	2.00	1.91		ppb v/v		96	60 - 140
Styrene	2.00	1.83		ppb v/v		91	70 - 130
Tetrachloroethene	2.00	1.83		ppb v/v		91	70 - 130
Tetrahydrofuran	2.00	1.83		ppb v/v		92	60 - 140
Thiophene	2.00	1.83		ppb v/v		92	20 - 180
Toluene	2.00	1.84		ppb v/v		92	70 - 130
trans-1,2-Dichloroethene	2.00	1.87		ppb v/v		94	70 - 130
trans-1,3-Dichloropropene	2.00	1.86		ppb v/v		93	70 - 130
Trichloroethene	2.00	1.89		ppb v/v		94	70 - 130
Trichlorofluoromethane	2.00	1.99		ppb v/v		99	60 - 140
Vinyl chloride	2.00	2.01		ppb v/v		100	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	10.3		ug/m3		94	70 - 130
1,1,2,2-Tetrachloroethane	14	13.0		ug/m3		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.95		ug/m3		91	70 - 130
1,1-Dichloroethane	8.1	7.73		ug/m3		95	70 - 130
1,1-Dichloroethene	7.9	8.75		ug/m3		110	70 - 130
1,2,4-Trichlorobenzene	15	12.8		ug/m3		86	60 - 140
1,2,4-Trimethylbenzene	9.8	9.24		ug/m3		94	70 - 130
1,2-Dibromoethane (EDB)	15	14.0		ug/m3		91	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	15.1		ug/m3		108	60 - 140
1,2-Dichlorobenzene	12	9.76		ug/m3		81	70 - 130
1,2-Dichloroethane	8.1	7.93		ug/m3		98	70 - 130
1,2-Dichloropropane	9.2	8.04		ug/m3		87	70 - 130
1,3,5-Trimethylbenzene	9.8	9.24		ug/m3		94	70 - 130
1,3-Butadiene	4.4	4.56		ug/m3		103	60 - 140
1,3-Dichlorobenzene	12	9.76		ug/m3		81	70 - 130
1,4-Dichlorobenzene	12	9.63		ug/m3		80	70 - 130
1,4-Dioxane	7.2	6.19		ug/m3		86	60 - 140
2,2,4-Trimethylpentane	9.3	8.33		ug/m3		89	70 - 130
2,3-Dimethylpentane	8.2	7.43		ug/m3		91	20 - 180
2-Butanone (MEK)	5.9	5.38		ug/m3		91	60 - 140
2-Hexanone	8.2	7.93		ug/m3		97	60 - 140
2-Methylbutane	5.9	5.66		ug/m3		96	70 - 130
2-Methylpentane	7.1	6.78		ug/m3		96	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-1000/1002

Matrix: Air

Analysis Batch: 1000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	9.41		ug/m3		96	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.73		ug/m3		94	60 - 140
Acetone	4.8	2.74	J *	ug/m3		58	60 - 140
Benzene	6.4	6.00		ug/m3		94	70 - 130
Benzyl chloride	10	9.24		ug/m3		89	70 - 130
Bromodichloromethane	13	12.1		ug/m3		90	70 - 130
Bromoform	21	17.4		ug/m3		84	60 - 140
Bromomethane	7.8	7.47		ug/m3		96	70 - 130
Carbon disulfide	6.2	6.06		ug/m3		97	70 - 130
Carbon tetrachloride	13	11.2		ug/m3		89	70 - 130
Chlorobenzene	9.2	8.01		ug/m3		87	70 - 130
Chloroethane	5.3	5.12		ug/m3		97	70 - 130
Chloroform	9.8	9.05		ug/m3		93	70 - 130
Chloromethane	4.1	4.15		ug/m3		100	60 - 140
cis-1,2-Dichloroethene	7.9	7.82		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	9.1	7.85		ug/m3		86	70 - 130
Cyclohexane	6.9	6.82		ug/m3		99	70 - 130
Dibromochloromethane	17	15.6		ug/m3		92	70 - 130
Dichlorodifluoromethane	9.9	10.3		ug/m3		104	60 - 140
Ethanol	19	18.1		ug/m3		96	20 - 180
Ethylbenzene	8.7	8.17		ug/m3		94	70 - 130
Heptane	8.2	7.27		ug/m3		89	70 - 130
Hexachlorobutadiene	21	16.0		ug/m3		75	60 - 140
Hexane	7.1	6.31		ug/m3		90	70 - 130
Indane	9.7	8.82		ug/m3		91	20 - 180
Indene	9.5	9.05		ug/m3		95	20 - 180
Isopropyl alcohol	4.9	4.45		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.86		ug/m3		95	60 - 140
Methylene Chloride	7.0	7.32		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	15.8		ug/m3		91	70 - 130
Naphthalene	10	8.90		ug/m3		85	40 - 140
o-Xylene	8.7	7.97		ug/m3		92	70 - 130
Propene	3.4	3.29		ug/m3		96	60 - 140
Styrene	8.5	7.78		ug/m3		91	70 - 130
Tetrachloroethene	14	12.4		ug/m3		91	70 - 130
Tetrahydrofuran	5.9	5.41		ug/m3		92	60 - 140
Thiophene	6.9	6.31		ug/m3		92	20 - 180
Toluene	7.5	6.92		ug/m3		92	70 - 130
trans-1,2-Dichloroethene	7.9	7.43		ug/m3		94	70 - 130
trans-1,3-Dichloropropene	9.1	8.46		ug/m3		93	70 - 130
Trichloroethene	11	10.1		ug/m3		94	70 - 130
Trichlorofluoromethane	11	11.2		ug/m3		99	60 - 140
Vinyl chloride	5.1	5.13		ug/m3		100	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		60 - 140

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5

Matrix: Air

Analysis Batch: 984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.20	0.031	ppb v/v			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 14:39	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
2-Butanone (MEK)	ND		1.0	0.20	ppb v/v			03/21/14 14:39	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 14:39	1
2-Methylbutane	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/21/14 14:39	1
Acetone	ND		5.0	1.4	ppb v/v			03/21/14 14:39	1
Benzene	ND		0.20	0.056	ppb v/v			03/21/14 14:39	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 14:39	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 14:39	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 14:39	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 14:39	1
Carbon tetrachloride	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 14:39	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 14:39	1
Chloroform	ND		0.20	0.038	ppb v/v			03/21/14 14:39	1
Chloromethane	ND		0.50	0.16	ppb v/v			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 14:39	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/21/14 14:39	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Ethanol	ND		2.0	2.0	ppb v/v			03/21/14 14:39	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/21/14 14:39	1
Heptane	ND		0.50	0.047	ppb v/v			03/21/14 14:39	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 14:39	1
Hexane	ND		0.50	0.032	ppb v/v			03/21/14 14:39	1

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5

Matrix: Air

Analysis Batch: 984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indane	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 14:39	1
Isopropyl alcohol	ND		2.0	0.094	ppb v/v			03/21/14 14:39	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 14:39	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 14:39	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/21/14 14:39	1
Propene	ND		0.50	0.077	ppb v/v			03/21/14 14:39	1
Styrene	ND		0.20	0.058	ppb v/v			03/21/14 14:39	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/21/14 14:39	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 14:39	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 14:39	1
Toluene	ND		0.20	0.12	ppb v/v			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 14:39	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 14:39	1
Trichlorofluoromethane	ND		0.20	0.024	ppb v/v			03/21/14 14:39	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 14:39	1

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 14:39	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 14:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			03/21/14 14:39	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 14:39	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 14:39	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 14:39	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 14:39	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/21/14 14:39	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 14:39	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 14:39	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 14:39	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 14:39	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 14:39	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 14:39	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 14:39	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 14:39	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 14:39	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 14:39	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/21/14 14:39	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 14:39	1
2-Butanone (MEK)	ND		2.9	0.59	ug/m3			03/21/14 14:39	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 14:39	1
2-Methylbutane	ND		1.5	0.091	ug/m3			03/21/14 14:39	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 14:39	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/21/14 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/21/14 14:39	1
Acetone	ND		12	3.3	ug/m3			03/21/14 14:39	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-984/5

Matrix: Air

Analysis Batch: 984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.64	0.18	ug/m3			03/21/14 14:39	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 14:39	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 14:39	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 14:39	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 14:39	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 14:39	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			03/21/14 14:39	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 14:39	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 14:39	1
Chloroform	ND		0.98	0.19	ug/m3			03/21/14 14:39	1
Chloromethane	ND		1.0	0.33	ug/m3			03/21/14 14:39	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 14:39	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 14:39	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/21/14 14:39	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 14:39	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			03/21/14 14:39	1
Ethanol	ND		3.8	3.8	ug/m3			03/21/14 14:39	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/21/14 14:39	1
Heptane	ND		2.0	0.19	ug/m3			03/21/14 14:39	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 14:39	1
Hexane	ND		1.8	0.11	ug/m3			03/21/14 14:39	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 14:39	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 14:39	1
Isopropyl alcohol	ND		4.9	0.23	ug/m3			03/21/14 14:39	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 14:39	1
Methylene Chloride	ND		1.7	0.45	ug/m3			03/21/14 14:39	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			03/21/14 14:39	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 14:39	1
o-Xylene	ND		0.87	0.26	ug/m3			03/21/14 14:39	1
Propene	ND		0.86	0.13	ug/m3			03/21/14 14:39	1
Styrene	ND		0.85	0.25	ug/m3			03/21/14 14:39	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/21/14 14:39	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 14:39	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 14:39	1
Toluene	ND		0.75	0.45	ug/m3			03/21/14 14:39	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 14:39	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 14:39	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 14:39	1
Trichlorofluoromethane	ND		1.1	0.13	ug/m3			03/21/14 14:39	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 14:39	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140					03/21/14 14:39	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,1,1-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.68		ppb v/v		84	70 - 130
1,1-Dichloroethane	2.00	1.83		ppb v/v		91	70 - 130
1,1-Dichloroethene	2.00	2.30		ppb v/v		115	70 - 130
1,2,4-Trichlorobenzene	2.00	1.52		ppb v/v		76	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18		ppb v/v		109	60 - 140
1,2-Dichlorobenzene	2.00	1.51		ppb v/v		76	70 - 130
1,2-Dichloroethane	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloropropane	2.00	1.66		ppb v/v		83	70 - 130
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		85	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	1.49		ppb v/v		74	70 - 130
1,4-Dichlorobenzene	2.00	1.47		ppb v/v		73	70 - 130
1,4-Dioxane	2.00	1.58		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.70		ppb v/v		85	70 - 130
2,3-Dimethylpentane	2.00	1.69		ppb v/v		84	20 - 180
2-Butanone (MEK)	2.00	1.71		ppb v/v		85	60 - 140
2-Hexanone	2.00	1.75		ppb v/v		88	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.89		ppb v/v		95	20 - 180
4-Ethyltoluene	2.00	1.75		ppb v/v		87	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.74		ppb v/v		87	60 - 140
Acetone	2.00	1.05	J *	ppb v/v		53	60 - 140
Benzene	2.00	1.76		ppb v/v		88	70 - 130
Benzyl chloride	2.00	1.59		ppb v/v		80	70 - 130
Bromodichloromethane	2.00	1.73		ppb v/v		86	70 - 130
Bromoform	2.00	1.62		ppb v/v		81	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.05		ppb v/v		102	70 - 130
Carbon tetrachloride	2.00	1.79		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.64		ppb v/v		82	70 - 130
Chloroethane	2.00	1.98		ppb v/v		99	70 - 130
Chloroform	2.00	1.79		ppb v/v		90	70 - 130
Chloromethane	2.00	2.04		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.89		ppb v/v		94	70 - 130
cis-1,3-Dichloropropene	2.00	1.65		ppb v/v		83	70 - 130
Cyclohexane	2.00	1.85		ppb v/v		92	70 - 130
Dibromochloromethane	2.00	1.74		ppb v/v		87	70 - 130
Dichlorodifluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Ethanol	10.0	9.32		ppb v/v		93	20 - 180
Ethylbenzene	2.00	1.70		ppb v/v		85	70 - 130
Heptane	2.00	1.69		ppb v/v		84	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Hexachlorobutadiene	2.00	1.43		ppb v/v		72	60 - 140
Hexane	2.00	1.70		ppb v/v		85	70 - 130
Indane	2.00	1.70		ppb v/v		85	20 - 180
Indene	2.00	1.75		ppb v/v		87	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.83		ppb v/v		91	60 - 140
Methylene Chloride	2.00	2.13		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	3.28		ppb v/v		82	70 - 130
Naphthalene	2.00	1.50		ppb v/v		75	40 - 140
o-Xylene	2.00	1.67		ppb v/v		83	70 - 130
Propene	2.00	1.93		ppb v/v		97	60 - 140
Styrene	2.00	1.64		ppb v/v		82	70 - 130
Tetrachloroethene	2.00	1.70		ppb v/v		85	70 - 130
Tetrahydrofuran	2.00	1.73		ppb v/v		87	60 - 140
Thiophene	2.00	1.72		ppb v/v		86	20 - 180
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	1.70		ppb v/v		85	70 - 130
Trichloroethene	2.00	1.78		ppb v/v		89	70 - 130
Trichlorofluoromethane	2.00	2.06		ppb v/v		103	60 - 140
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	11	9.91		ug/m3		91	70 - 130
1,1,2,2-Tetrachloroethane	14	11.9		ug/m3		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.18		ug/m3		84	70 - 130
1,1-Dichloroethane	8.1	7.40		ug/m3		91	70 - 130
1,1-Dichloroethene	7.9	9.13		ug/m3		115	70 - 130
1,2,4-Trichlorobenzene	15	11.3		ug/m3		76	60 - 140
1,2,4-Trimethylbenzene	9.8	8.45		ug/m3		86	70 - 130
1,2-Dibromoethane (EDB)	15	13.0		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	15.3		ug/m3		109	60 - 140
1,2-Dichlorobenzene	12	9.11		ug/m3		76	70 - 130
1,2-Dichloroethane	8.1	7.42		ug/m3		92	70 - 130
1,2-Dichloropropane	9.2	7.69		ug/m3		83	70 - 130
1,3,5-Trimethylbenzene	9.8	8.33		ug/m3		85	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	8.94		ug/m3		74	70 - 130
1,4-Dichlorobenzene	12	8.83		ug/m3		73	70 - 130
1,4-Dioxane	7.2	5.70		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	7.93		ug/m3		85	70 - 130
2,3-Dimethylpentane	8.2	6.92		ug/m3		84	20 - 180
2-Butanone (MEK)	5.9	5.03		ug/m3		85	60 - 140
2-Hexanone	8.2	7.18		ug/m3		88	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.67		ug/m3		95	20 - 180

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
4-Ethyltoluene	9.8	8.58		ug/m3		87	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.11		ug/m3		87	60 - 140
Acetone	4.8	2.50	J *	ug/m3		53	60 - 140
Benzene	6.4	5.61		ug/m3		88	70 - 130
Benzyl chloride	10	8.24		ug/m3		80	70 - 130
Bromodichloromethane	13	11.6		ug/m3		86	70 - 130
Bromoform	21	16.8		ug/m3		81	60 - 140
Bromomethane	7.8	7.71		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.38		ug/m3		102	70 - 130
Carbon tetrachloride	13	11.3		ug/m3		89	70 - 130
Chlorobenzene	9.2	7.53		ug/m3		82	70 - 130
Chloroethane	5.3	5.23		ug/m3		99	70 - 130
Chloroform	9.8	8.75		ug/m3		90	70 - 130
Chloromethane	4.1	4.20		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.50		ug/m3		94	70 - 130
cis-1,3-Dichloropropene	9.1	7.51		ug/m3		83	70 - 130
Cyclohexane	6.9	6.36		ug/m3		92	70 - 130
Dibromochloromethane	17	14.8		ug/m3		87	70 - 130
Dichlorodifluoromethane	9.9	10.4		ug/m3		105	60 - 140
Ethanol	19	17.6		ug/m3		93	20 - 180
Ethylbenzene	8.7	7.39		ug/m3		85	70 - 130
Heptane	8.2	6.91		ug/m3		84	70 - 130
Hexachlorobutadiene	21	15.3		ug/m3		72	60 - 140
Hexane	7.1	5.98		ug/m3		85	70 - 130
Indane	9.7	8.22		ug/m3		85	20 - 180
Indene	9.5	8.29		ug/m3		87	20 - 180
Isopropyl alcohol	4.9	4.46		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.58		ug/m3		91	60 - 140
Methylene Chloride	7.0	7.41		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	14.3		ug/m3		82	70 - 130
Naphthalene	10	7.85		ug/m3		75	40 - 140
o-Xylene	8.7	7.25		ug/m3		83	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	6.97		ug/m3		82	70 - 130
Tetrachloroethene	14	11.5		ug/m3		85	70 - 130
Tetrahydrofuran	5.9	5.11		ug/m3		87	60 - 140
Thiophene	6.9	5.93		ug/m3		86	20 - 180
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	7.54		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	7.73		ug/m3		85	70 - 130
Trichloroethene	11	9.55		ug/m3		89	70 - 130
Trichlorofluoromethane	11	11.6		ug/m3		103	60 - 140
Vinyl chloride	5.1	5.26		ug/m3		103	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		60 - 140

QC Association Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Air - GC/MS VOA

Analysis Batch: 984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1073-1	SAMPLE 1- CRAWLSPACE	Total/NA	Air	TO-15	
LCS 140-984/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-984/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 1000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1073-1 - DL	SAMPLE 1- CRAWLSPACE	Total/NA	Air	TO-15	
LCS 140-1000/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-1000/1004	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	984	03/21/14 23:34	HMT	TAL KNX
Instrument ID: MJ										
Total/NA	Analysis	TO-15	DL	1	100 mL	500 mL	1000	03/24/14 22:33	HMT	TAL KNX
Instrument ID: MJ										

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14 *
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-15
Michigan	State Program	5	9933	04-13-14 *
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14 *
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14 *
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1073-1	SAMPLE 1- CRAWLSPACE	Air	03/15/14 15:32	03/19/14 10:15

Method T015

Volatile Organic Compounds (GC/MS)
by Method T015

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
SAMPLE 1- CRAWLSPACE	140-1073-1	91
SAMPLE 1- CRAWLSPACE DL	140-1073-1 DL	96
	MB 140-984/5	93
	MB 140-1000/1004	93
	LCS 140-984/1002	100
	LCS 140-1000/1002	99

BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
60-140

Column to be used to flag recovery values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d
 Lab ID: LCS 140-984/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.82	91	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.73	87	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26	113	70-130	
1,1,2-Trichloroethane	2.00	1.68	84	70-130	
1,1-Dichloroethane	2.00	1.83	91	70-130	
1,1-Dichloroethene	2.00	2.30	115	70-130	
1,2,4-Trichlorobenzene	2.00	1.52	76	60-140	
1,2,4-Trimethylbenzene	2.00	1.72	86	70-130	
1,2-Dibromoethane (EDB)	2.00	1.69	85	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18	109	60-140	
1,2-Dichlorobenzene	2.00	1.51	76	70-130	
1,2-Dichloroethane	2.00	1.83	92	70-130	
1,2-Dichloropropane	2.00	1.66	83	70-130	
1,3,5-Trimethylbenzene	2.00	1.69	85	70-130	
1,3-Butadiene	2.00	2.09	105	60-140	
1,3-Dichlorobenzene	2.00	1.49	74	70-130	
1,4-Dichlorobenzene	2.00	1.47	73	70-130	
1,4-Dioxane	2.00	1.58	79	60-140	
2,2,4-Trimethylpentane	2.00	1.70	85	70-130	
2,3-Dimethylpentane	2.00	1.69	84	20-180	
2-Butanone (MEK)	2.00	1.71	85	60-140	
2-Hexanone	2.00	1.75	88	60-140	
2-Methylbutane	2.00	1.98	99	70-130	
2-Methylpentane	2.00	1.89	95	20-180	
4-Ethyltoluene	2.00	1.75	87	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.74	87	60-140	
Acetone	2.00	1.05 J	53	60-140	*
Benzene	2.00	1.76	88	70-130	
Benzyl chloride	2.00	1.59	80	70-130	
Bromodichloromethane	2.00	1.73	86	70-130	
Bromoform	2.00	1.62	81	60-140	
Bromomethane	2.00	1.98	99	70-130	
Carbon disulfide	2.00	2.05	102	70-130	
Carbon tetrachloride	2.00	1.79	89	70-130	
Chlorobenzene	2.00	1.64	82	70-130	
Chloroethane	2.00	1.98	99	70-130	
Chloroform	2.00	1.79	90	70-130	
Chloromethane	2.00	2.04	102	60-140	
cis-1,2-Dichloroethene	2.00	1.89	94	70-130	
cis-1,3-Dichloropropene	2.00	1.65	83	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC21-LCS.d
 Lab ID: LCS 140-984/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.85	92	70-130	
Dibromochloromethane	2.00	1.74	87	70-130	
Dichlorodifluoromethane	2.00	2.10	105	60-140	
Ethanol	10.0	9.32	93	20-180	
Ethylbenzene	2.00	1.70	85	70-130	
Heptane	2.00	1.69	84	70-130	
Hexachlorobutadiene	2.00	1.43	72	60-140	
Hexane	2.00	1.70	85	70-130	
Indane	2.00	1.70	85	20-180	
Indene	2.00	1.75	87	20-180	
Isopropyl alcohol	2.00	1.81	91	60-140	
Methyl tert-butyl ether	2.00	1.83	91	60-140	
Methylene Chloride	2.00	2.13	107	70-130	
m-Xylene & p-Xylene	4.00	3.28	82	70-130	
Naphthalene	2.00	1.50	75	40-140	
o-Xylene	2.00	1.67	83	70-130	
Propene	2.00	1.93	97	60-140	
Styrene	2.00	1.64	82	70-130	
Tetrachloroethene	2.00	1.70	85	70-130	
Tetrahydrofuran	2.00	1.73	87	60-140	
Thiophene	2.00	1.72	86	20-180	
Toluene	2.00	1.69	84	70-130	
trans-1,2-Dichloroethene	2.00	1.90	95	70-130	
trans-1,3-Dichloropropene	2.00	1.70	85	70-130	
Trichloroethene	2.00	1.78	89	70-130	
Trichlorofluoromethane	2.00	2.06	103	60-140	
Vinyl chloride	2.00	2.06	103	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC24-LCS.d
 Lab ID: LCS 140-1000/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.89	94	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.89	94	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26	113	70-130	
1,1,2-Trichloroethane	2.00	1.82	91	70-130	
1,1-Dichloroethane	2.00	1.91	95	70-130	
1,1-Dichloroethene	2.00	2.21	110	70-130	
1,2,4-Trichlorobenzene	2.00	1.72	86	60-140	
1,2,4-Trimethylbenzene	2.00	1.88	94	70-130	
1,2-Dibromoethane (EDB)	2.00	1.82	91	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.17	108	60-140	
1,2-Dichlorobenzene	2.00	1.62	81	70-130	
1,2-Dichloroethane	2.00	1.96	98	70-130	
1,2-Dichloropropane	2.00	1.74	87	70-130	
1,3,5-Trimethylbenzene	2.00	1.88	94	70-130	
1,3-Butadiene	2.00	2.06	103	60-140	
1,3-Dichlorobenzene	2.00	1.62	81	70-130	
1,4-Dichlorobenzene	2.00	1.60	80	70-130	
1,4-Dioxane	2.00	1.72	86	60-140	
2,2,4-Trimethylpentane	2.00	1.78	89	70-130	
2,3-Dimethylpentane	2.00	1.81	91	20-180	
2-Butanone (MEK)	2.00	1.82	91	60-140	
2-Hexanone	2.00	1.94	97	60-140	
2-Methylbutane	2.00	1.92	96	70-130	
2-Methylpentane	2.00	1.92	96	20-180	
4-Ethyltoluene	2.00	1.91	96	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	1.89	94	60-140	
Acetone	2.00	1.15 J	58	60-140	*
Benzene	2.00	1.88	94	70-130	
Benzyl chloride	2.00	1.79	89	70-130	
Bromodichloromethane	2.00	1.80	90	70-130	
Bromoform	2.00	1.68	84	60-140	
Bromomethane	2.00	1.92	96	70-130	
Carbon disulfide	2.00	1.94	97	70-130	
Carbon tetrachloride	2.00	1.77	89	70-130	
Chlorobenzene	2.00	1.74	87	70-130	
Chloroethane	2.00	1.94	97	70-130	
Chloroform	2.00	1.85	93	70-130	
Chloromethane	2.00	2.01	100	60-140	
cis-1,2-Dichloroethene	2.00	1.97	99	70-130	
cis-1,3-Dichloropropene	2.00	1.73	86	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVC24-LCS.d
 Lab ID: LCS 140-1000/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Cyclohexane	2.00	1.98	99	70-130	
Dibromochloromethane	2.00	1.84	92	70-130	
Dichlorodifluoromethane	2.00	2.08	104	60-140	
Ethanol	10.0	9.59	96	20-180	
Ethylbenzene	2.00	1.88	94	70-130	
Heptane	2.00	1.77	89	70-130	
Hexachlorobutadiene	2.00	1.50	75	60-140	
Hexane	2.00	1.79	90	70-130	
Indane	2.00	1.83	91	20-180	
Indene	2.00	1.91	95	20-180	
Isopropyl alcohol	2.00	1.81	91	60-140	
Methyl tert-butyl ether	2.00	1.90	95	60-140	
Methylene Chloride	2.00	2.11	105	70-130	
m-Xylene & p-Xylene	4.00	3.63	91	70-130	
Naphthalene	2.00	1.70	85	40-140	
o-Xylene	2.00	1.84	92	70-130	
Propene	2.00	1.91	96	60-140	
Styrene	2.00	1.83	91	70-130	
Tetrachloroethene	2.00	1.83	91	70-130	
Tetrahydrofuran	2.00	1.83	92	60-140	
Thiophene	2.00	1.83	92	20-180	
Toluene	2.00	1.84	92	70-130	
trans-1,2-Dichloroethene	2.00	1.87	94	70-130	
trans-1,3-Dichloropropene	2.00	1.86	93	70-130	
Trichloroethene	2.00	1.89	94	70-130	
Trichlorofluoromethane	2.00	1.99	99	60-140	
Vinyl chloride	2.00	2.01	100	70-130	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
SDG No.: _____
Lab File ID: 200BLK.D Lab Sample ID: MB 140-984/5
Matrix: Air Heated Purge: (Y/N) N
Instrument ID: MJ Date Analyzed: 03/21/2014 14:39
GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SAMPLE 1- CRAWLSPACE	140-1073-1	JC21P110.D	03/21/2014 23:34

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab File ID: 140-1086-a-15-MB.d Lab Sample ID: MB 140-1000/1004
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MJ Date Analyzed: 03/24/2014 10:59
 GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-1000/1002	JCCVC24-LCS .d	03/24/2014 09:12
SAMPLE 1- CRAWLSPACE DL	140-1073-1 DL	JC24P112.D	03/24/2014 22:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab File ID: JBFBC11.D BFB Injection Date: 03/11/2014
 Instrument ID: MJ BFB Injection Time: 12:12
 Analysis Batch No.: 946

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	41.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	111.2	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	108.1	(97.2)1
177	5.0 - 9.0 % of mass 176	7.2	(6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-946/2	JICC111.D	03/11/2014	12:40
	IC 140-946/3	JICC112.D	03/11/2014	13:35
	IC 140-946/4	JICC113.D	03/11/2014	14:29
	IC 140-946/5	JICC114.D	03/11/2014	15:23
	IC 140-946/6	JICC115.D	03/11/2014	16:17
	ICIS 140-946/7	JICC116.D	03/11/2014	17:11
	IC 140-946/8	JICC117.D	03/11/2014	18:06
	IC 140-946/9	JICC118.D	03/11/2014	19:02
	IC 140-946/10	JICC119.D	03/11/2014	19:57
	ICV 140-946/14	JLCS11.D	03/11/2014	23:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab File ID: JBFBC21.D BFB Injection Date: 03/21/2014
 Instrument ID: MJ BFB Injection Time: 11:03
 Analysis Batch No.: 984

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	43.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	110.6	
175	5.0 - 9.0 % of mass 174	8.5	(7.7)1
176	95.0 - 101.0 % of mass 174	107.7	(97.4)1
177	5.0 - 9.0 % of mass 176	7.2	(6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-984/2	JCCVC21.D	03/21/2014	11:30
	LCS 140-984/1002	JCCVC21-LCS. d	03/21/2014	11:30
	MB 140-984/5	200BLK.D	03/21/2014	14:39
SAMPLE 1- CRAWLSPACE	140-1073-1	JC21P110.D	03/21/2014	23:34

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab File ID: JBFBC24.D BFB Injection Date: 03/24/2014
 Instrument ID: MJ BFB Injection Time: 08:45
 Analysis Batch No.: 1000

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.9
75	30.0 - 60.0 % of mass 95	42.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	113.0
175	5.0 - 9.0 % of mass 174	8.3 (7.4)1
176	95.0 - 101.0 % of mass 174	109.4 (96.9)1
177	5.0 - 9.0 % of mass 176	7.4 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-1000/2	JCCVC24.D	03/24/2014	09:12
	LCS 140-1000/1002	JCCVC24-LCS.d	03/24/2014	09:12
	MB 140-1000/1004	140-1086-a-1 5-MB.d	03/24/2014	10:59
SAMPLE 1- CRAWLSPACE DL	140-1073-1 DL	JC24P112.D	03/24/2014	22:33

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Sample No.: ICIS 140-946/7 Date Analyzed: 03/11/2014 17:11
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JICC116.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	351204	9.39	1664083	11.55	1450172	16.21
UPPER LIMIT	491686	9.72	2329716	11.88	2030241	16.54
LOWER LIMIT	210722	9.06	998450	11.22	870103	15.88
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-946/14	326764	9.39	1541489	11.55	1315171	16.21

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Sample No.: CCVIS 140-984/2 Date Analyzed: 03/21/2014 11:30
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC21.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	348435	9.38	1618750	11.53	1362025	16.19	
UPPER LIMIT	487809	9.71	2266250	11.86	1906835	16.52	
LOWER LIMIT	209061	9.05	971250	11.20	817215	15.86	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-984/1002	348435	9.38	1618750	11.53	1362025	16.19	
MB 140-984/5	375868	9.37	1755903	11.53	1341257	16.19	
140-1073-1	SAMPLE 1- CRAWLSPACE	351459	9.37	1634234	11.53	1326509	16.19

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Sample No.: CCVIS 140-1000/2 Date Analyzed: 03/24/2014 09:12
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC24.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	408162	9.37	1808884	11.53	1461829	16.20	
UPPER LIMIT	571427	9.70	2532438	11.86	2046561	16.53	
LOWER LIMIT	244897	9.04	1085330	11.20	877097	15.87	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-1000/1002	408162	9.37	1808884	11.53	1461829	16.20	
MB 140-1000/1004	399241	9.37	1822003	11.53	1429147	16.19	
140-1073-1 DL	SAMPLE 1- CRAWLSPACE DL	358645	9.37	1774668	11.53	1484709	16.19

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE Lab Sample ID: 140-1073-1
 Matrix: Air Lab File ID: JC21P110.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 23:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.068	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.11	J	0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	0.093	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	0.59	J	1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	0.71		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	0.10	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.13	J	0.50	0.045
67-64-1	Acetone	58.08	5.9	*	5.0	1.4
71-43-2	Benzene	78.11	0.28		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE Lab Sample ID: 140-1073-1
 Matrix: Air Lab File ID: JC21P110.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 23:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.080	J	0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	0.091	J	0.20	0.038
74-87-3	Chloromethane	50.49	0.52		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	0.13	J	0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	0.69		0.20	0.068
64-17-5	Ethanol	46.07	230	E	2.0	2.0
100-41-4	Ethylbenzene	106.17	0.12	J	0.20	0.068
142-82-5	Heptane	100.21	0.38	J	0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	0.16	J	0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	6.1		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	0.25	J	0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	0.28		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	0.12	J	0.20	0.061
115-07-1	Propene	42.08	0.93	cn	0.50	0.077
100-42-5	Styrene	104.15	0.086	J	0.20	0.058
127-18-4	Tetrachloroethene	165.83	0.17	J	0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	1.5		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE Lab Sample ID: 140-1073-1
 Matrix: Air Lab File ID: JC21P110.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 23:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE Lab Sample ID: 140-1073-1
 Matrix: Air Lab File ID: JC21P110.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 23:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.52	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	0.55	J	0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	0.43	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.7	J	2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	2.1		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	0.51	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.51	J	2.0	0.18
67-64-1	Acetone	58.08	14	*	12	3.3
71-43-2	Benzene	78.11	0.91		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE Lab Sample ID: 140-1073-1
 Matrix: Air Lab File ID: JC21P110.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 23:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	0.50	J	1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	0.44	J	0.98	0.19
74-87-3	Chloromethane	50.49	1.1		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	0.46	J	1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	3.4		0.99	0.34
64-17-5	Ethanol	46.07	430	E	3.8	3.8
100-41-4	Ethylbenzene	106.17	0.52	J	0.87	0.30
142-82-5	Heptane	100.21	1.6	J	2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	0.55	J	1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	15		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	0.86	J	1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	1.2		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	0.52	J	0.87	0.26
115-07-1	Propene	42.08	1.6	cn	0.86	0.13
100-42-5	Styrene	104.15	0.36	J	0.85	0.25
127-18-4	Tetrachloroethene	165.83	1.1	J	1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	5.7		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE Lab Sample ID: 140-1073-1
 Matrix: Air Lab File ID: JC21P110.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 23:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D
 Lims ID: 140-1073-A-1 Lab Sample ID: 140-1073-1
 Client ID: SAMPLE 1- CRAWLSPACE
 Sample Type: Client
 Inject. Date: 21-Mar-2014 23:34:30 ALS Bottle#: 10 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1073-a-1
 Misc. Info.: J032114,TO15,,140-0000540-015
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 08:48:18 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 08:49:47

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.371	9.379	-0.008	90	351459	4.00	
* 2 1,4-Difluorobenzene	114	11.528	11.530	-0.002	94	1634234	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.192	16.194	-0.002	87	1326509	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.811	17.814	-0.003	91	854906	3.64	
7 Propene	41	3.981	3.972	0.009	93	40238	0.3734	
8 Dichlorodifluoromethane	85	4.029	4.031	-0.002	100	95720	0.2750	
9 Chloromethane	52	4.234	4.231	0.003	97	8278	0.2093	
17 Ethanol	31	5.121	5.113	0.008	94	2559946	90.7	E
19 2-Methylbutane	43	5.406	5.409	-0.003	92	42476	0.2846	
20 Trichlorofluoromethane	101	5.643	5.640	0.003	88	24839	0.0812	
23 Acetone	58	5.761	5.769	-0.008	98	117100	2.34	
24 Isopropyl alcohol	45	5.858	5.844	0.014	98	321835	2.44	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.574	6.576	-0.002	61	5771	0.0272	
31 Methylene Chloride	84	6.746	6.753	-0.007	84	9336	0.0993	
39 2-Butanone (MEK)	72	8.591	8.583	0.009	97	7867	0.2365	
40 Hexane	56	8.629	8.631	-0.002	66	5905	0.0625	
43 Chloroform	83	9.387	9.389	-0.002	14	7446	0.0364	
48 Benzene	78	11.017	11.014	0.003	92	31850	0.1136	
49 Cyclohexane	69	11.017	11.025	-0.008	49	2927	0.0529	
50 Carbon tetrachloride	117	11.039	11.046	-0.007	80	7425	0.0321	
53 Isooctane	57	11.754	11.756	-0.002	74	17753	0.0371	
54 n-Heptane	71	12.109	12.117	-0.008	87	15234	0.1536	
62 4-Methyl-2-pentanone (MIBK)	43	13.368	13.365	0.003	83	8596	0.0502	
65 Toluene	91	14.245	14.247	-0.002	93	148053	0.6016	
73 Tetrachloroethene	129	15.374	15.377	-0.003	83	7668	0.0669	
76 Ethylbenzene	91	16.520	16.523	-0.003	63	13127	0.0483	
78 m-Xylene & p-Xylene	91	16.676	16.684	-0.008	92	24762	0.1129	
80 Styrene	104	17.144	17.141	0.003	45	5157	0.0342	
82 o-Xylene	91	17.203	17.206	-0.003	64	10694	0.0481	
88 4-Ethyltoluene	105	18.451	18.443	0.008	55	12203	0.0413	M
93 1,2,4-Trimethylbenzene	105	18.936	18.938	-0.002	72	11569	0.0449	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
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QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Worklist Smp#: 15

Client ID: SAMPLE 1- CRAWLSPACE

Purge Vol: 500.000 mL

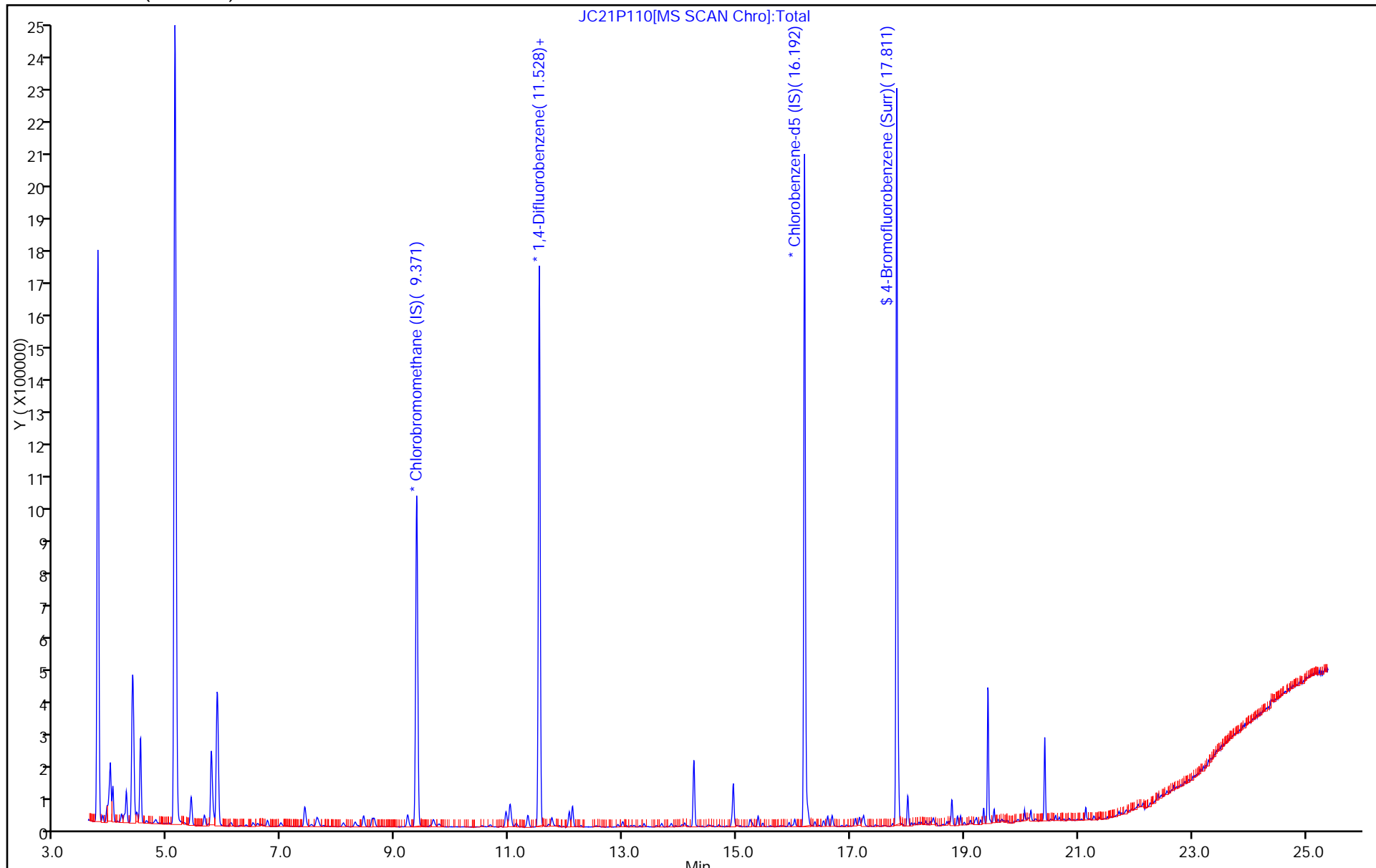
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

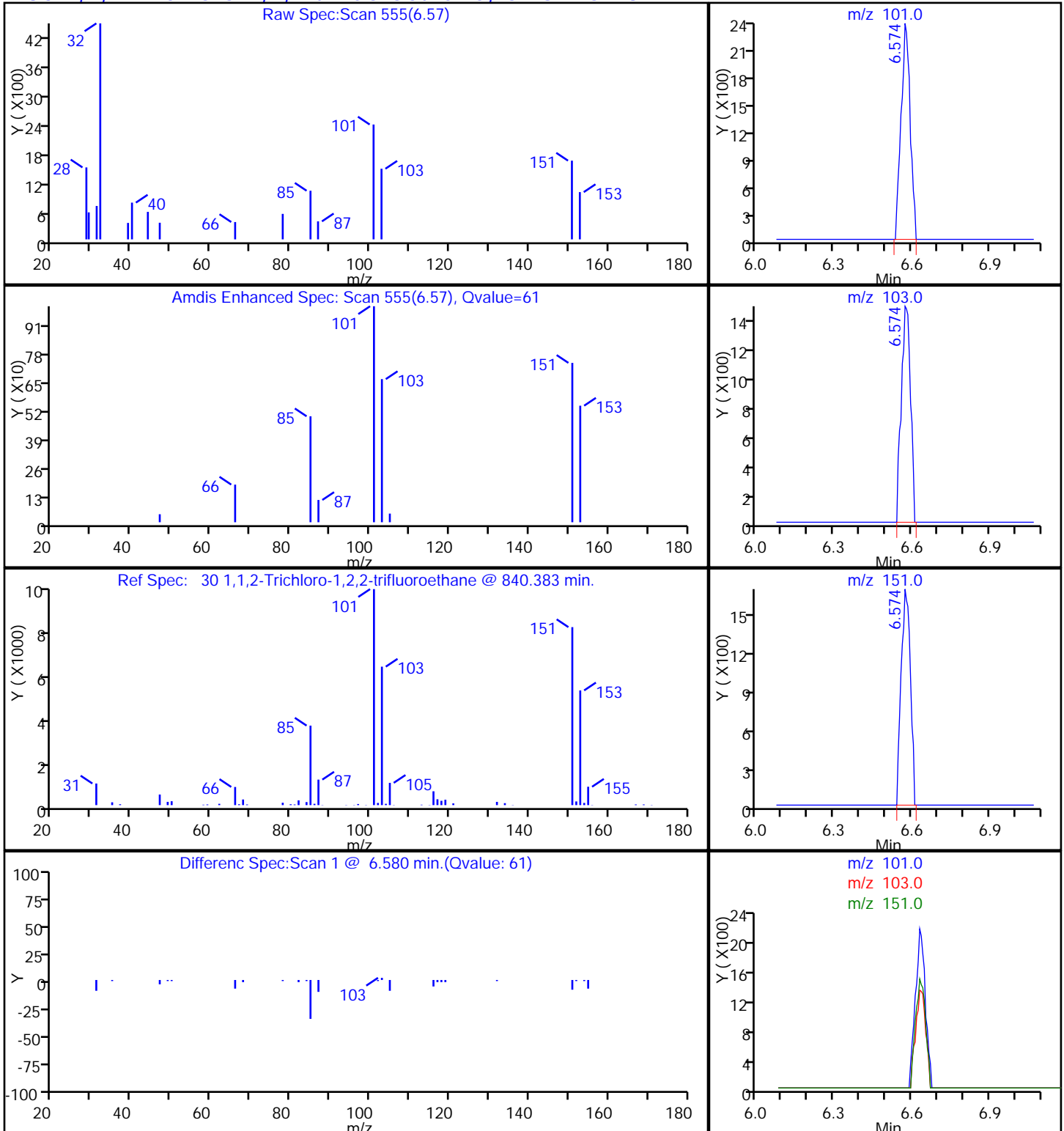
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

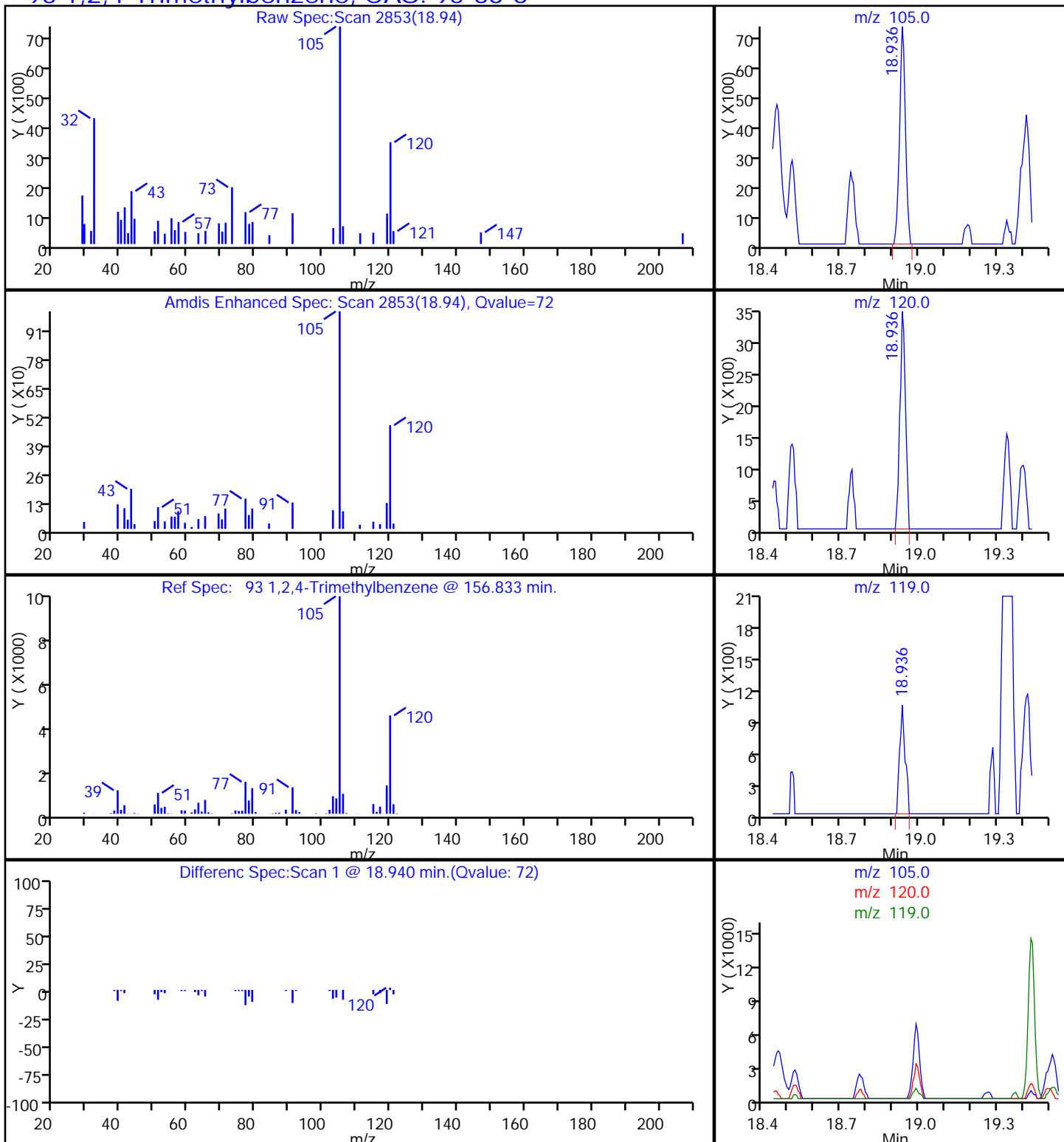
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

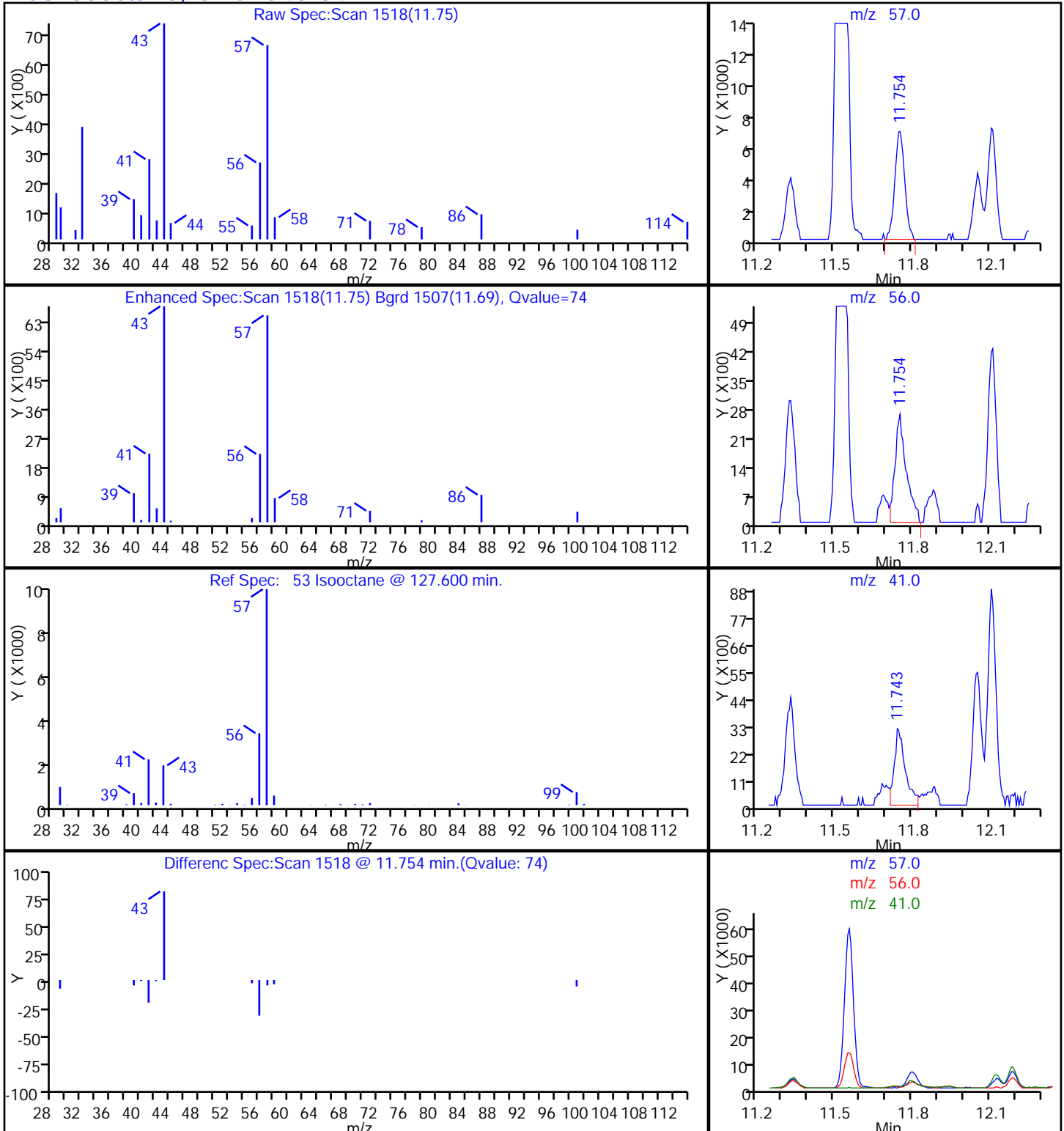
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

53 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

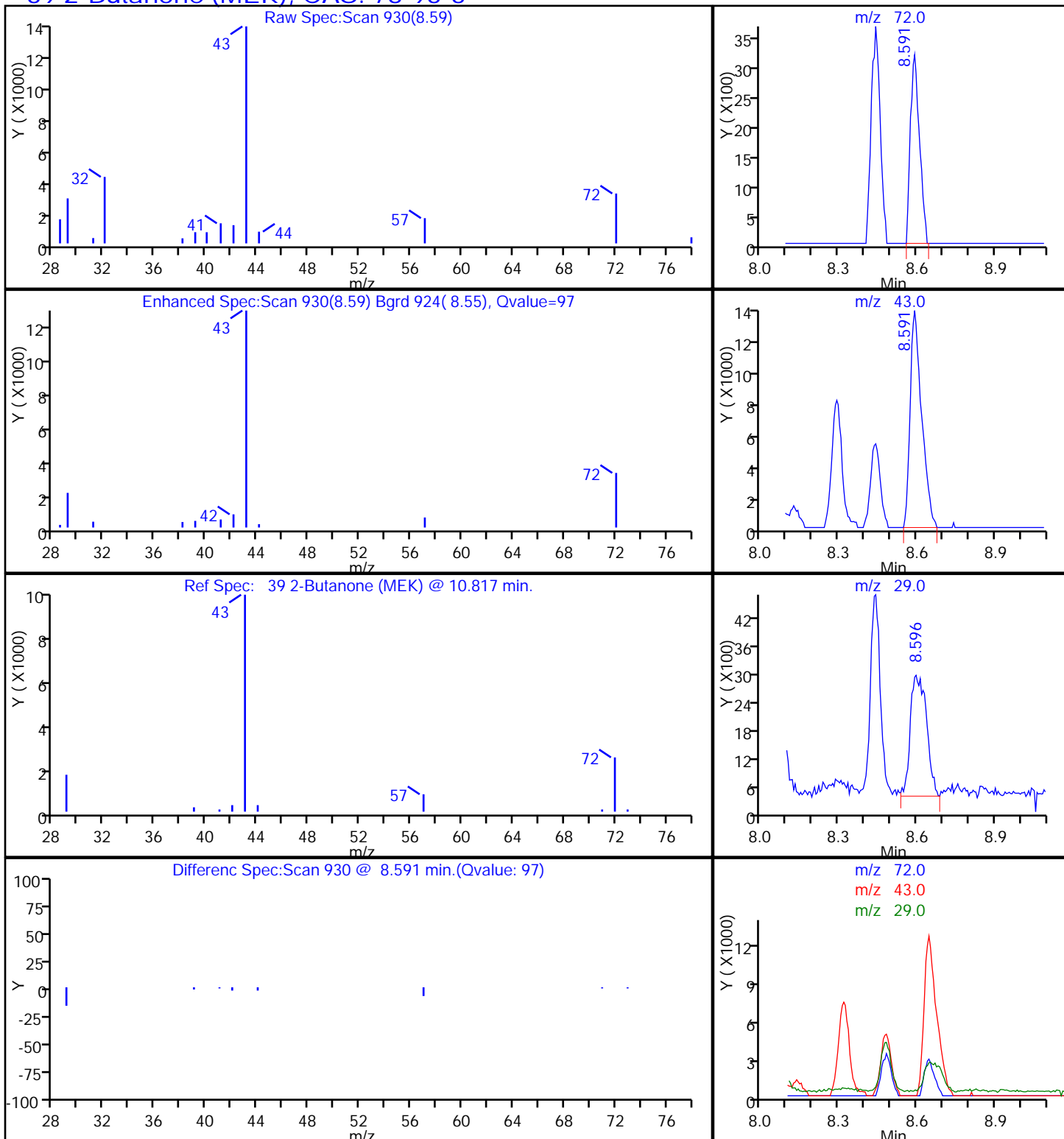
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

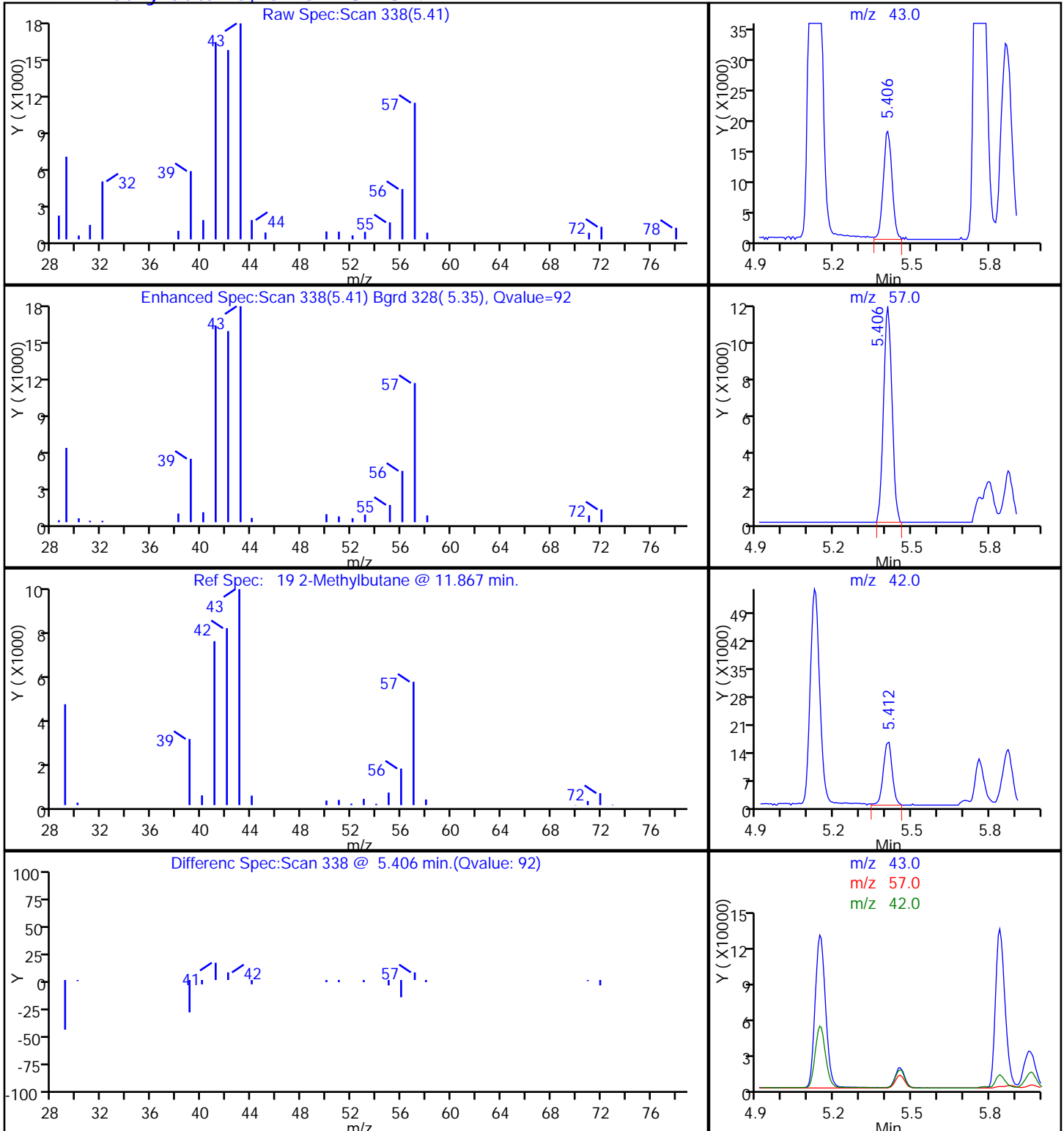
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

19 2-Methylbutane, CAS: 78-78-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

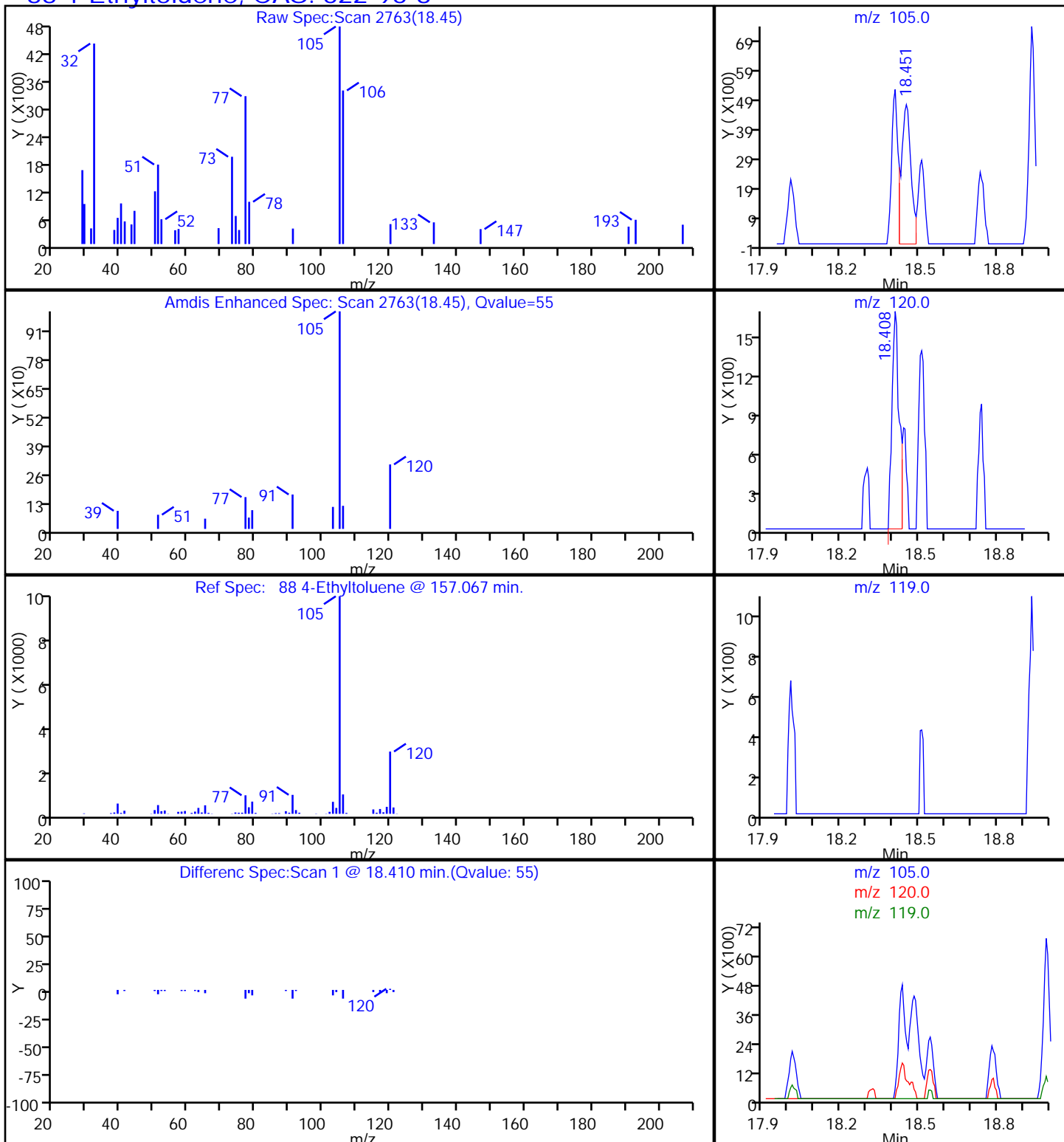
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

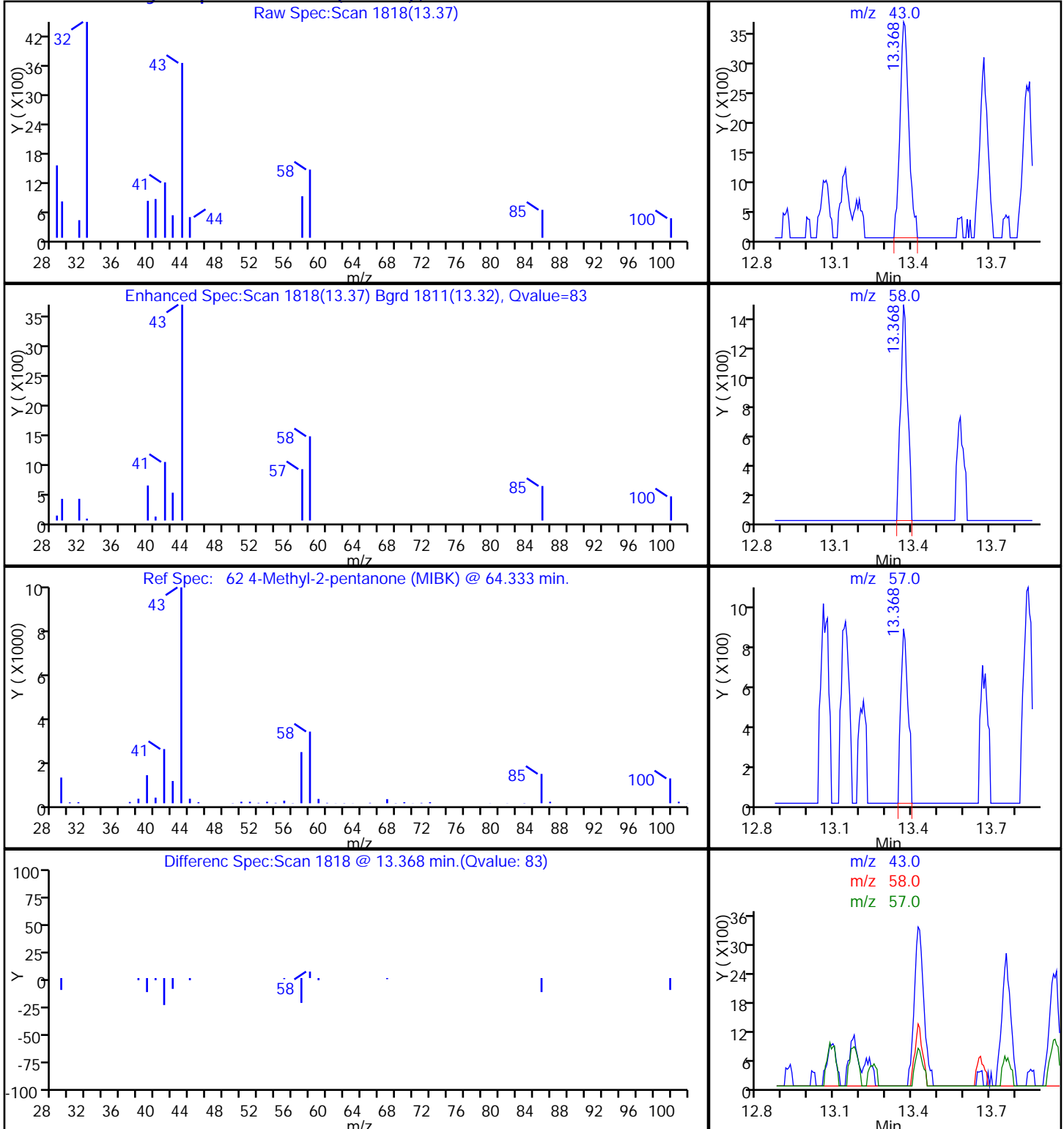
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

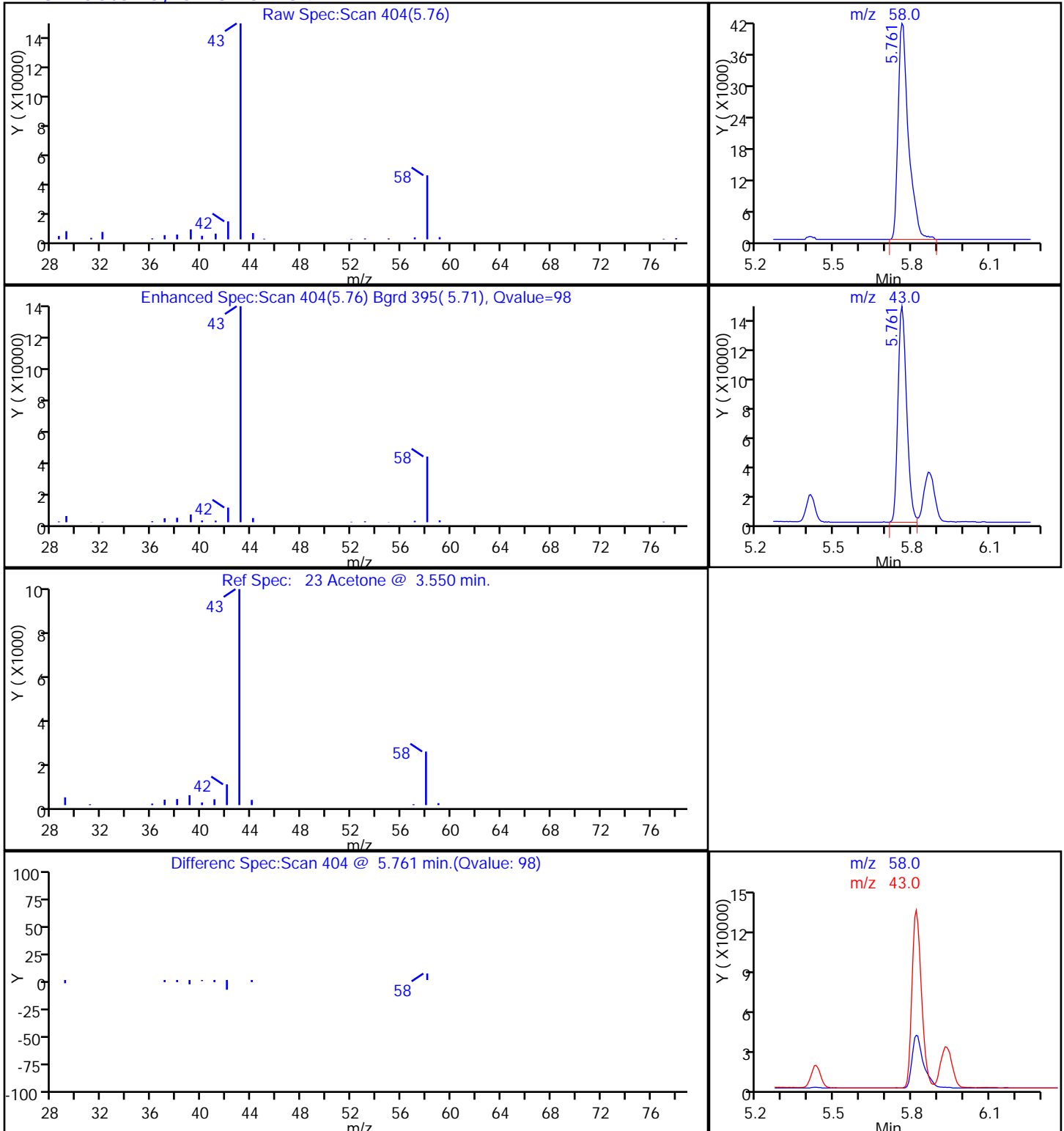
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

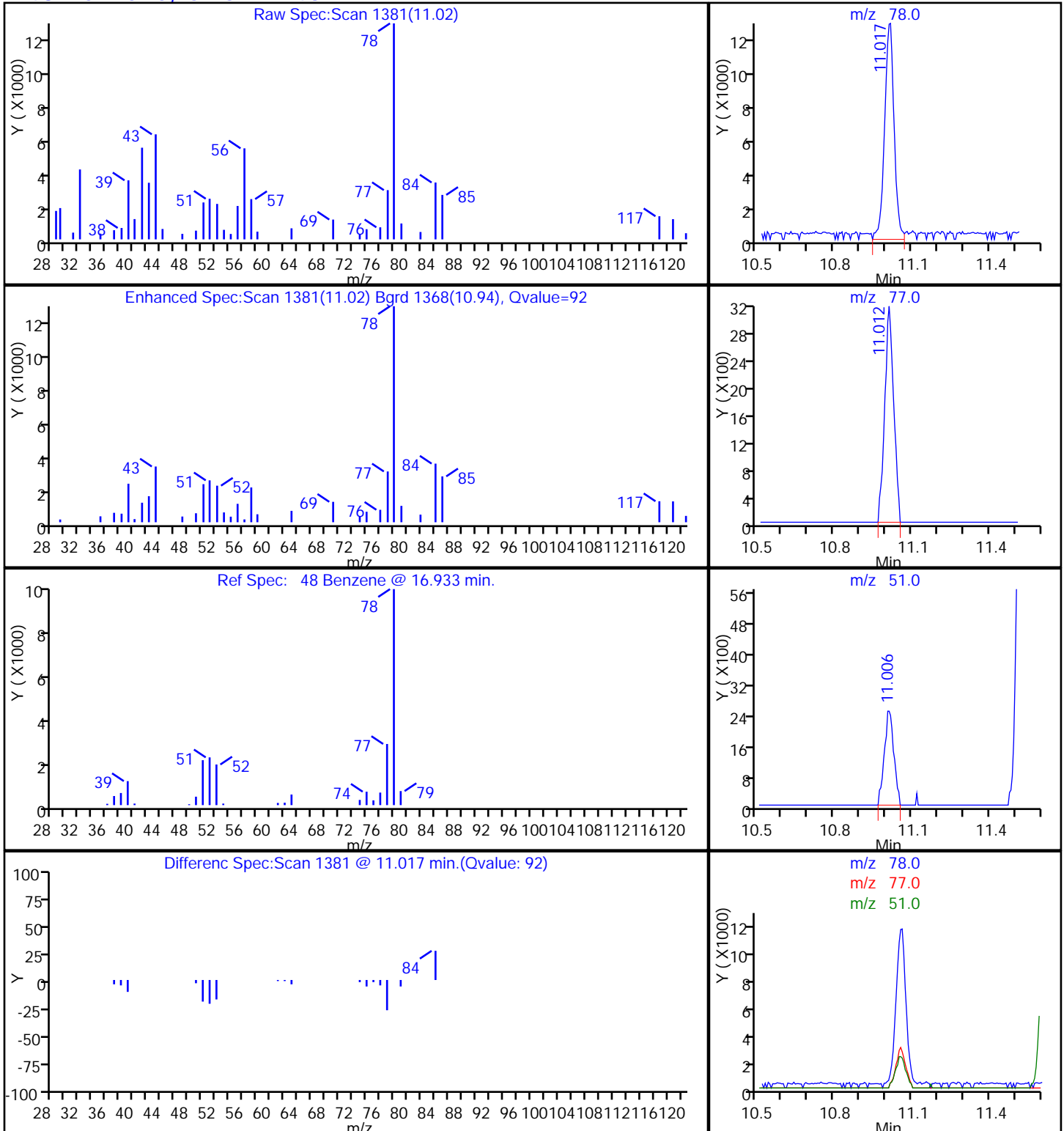
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

48 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

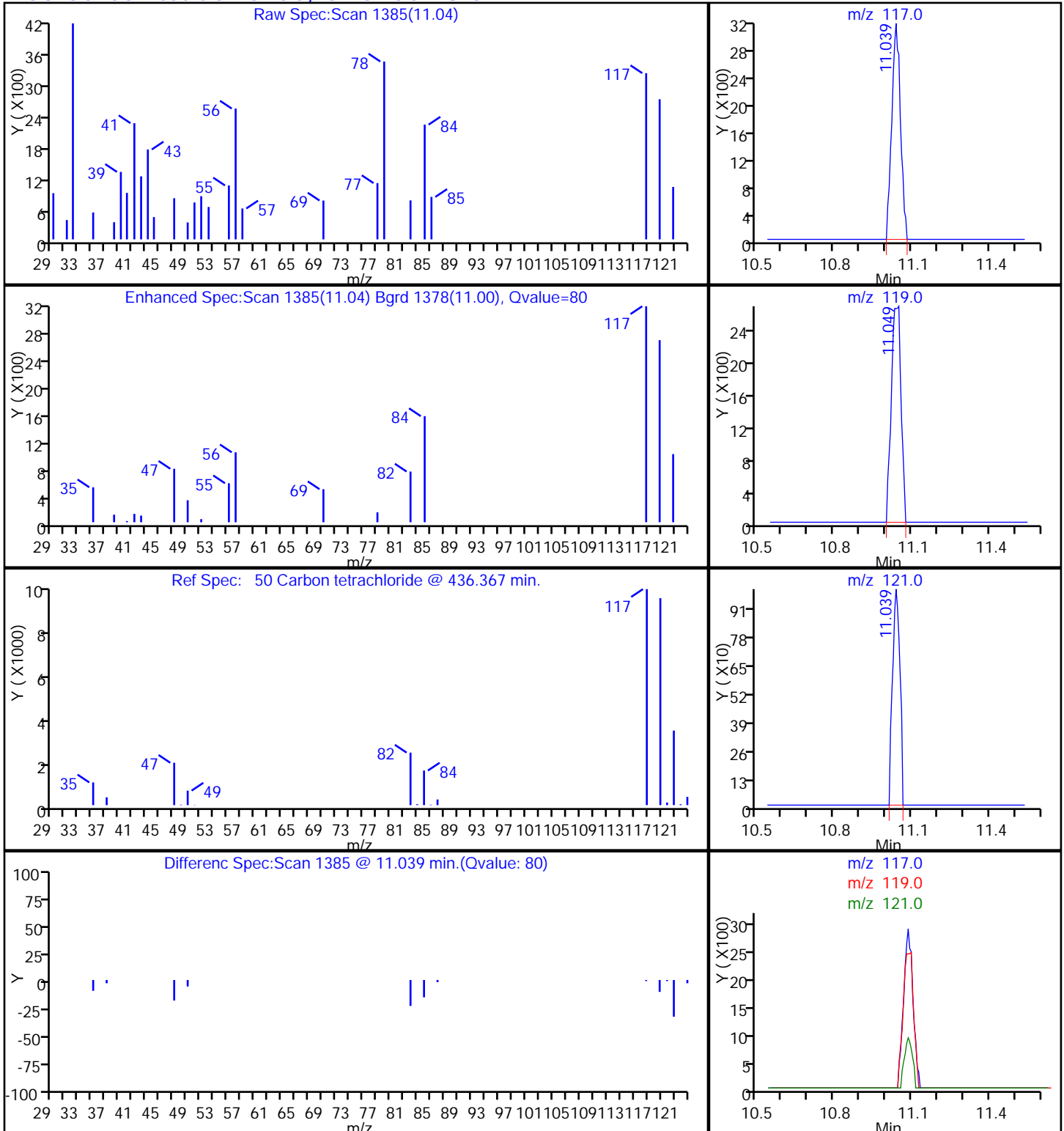
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

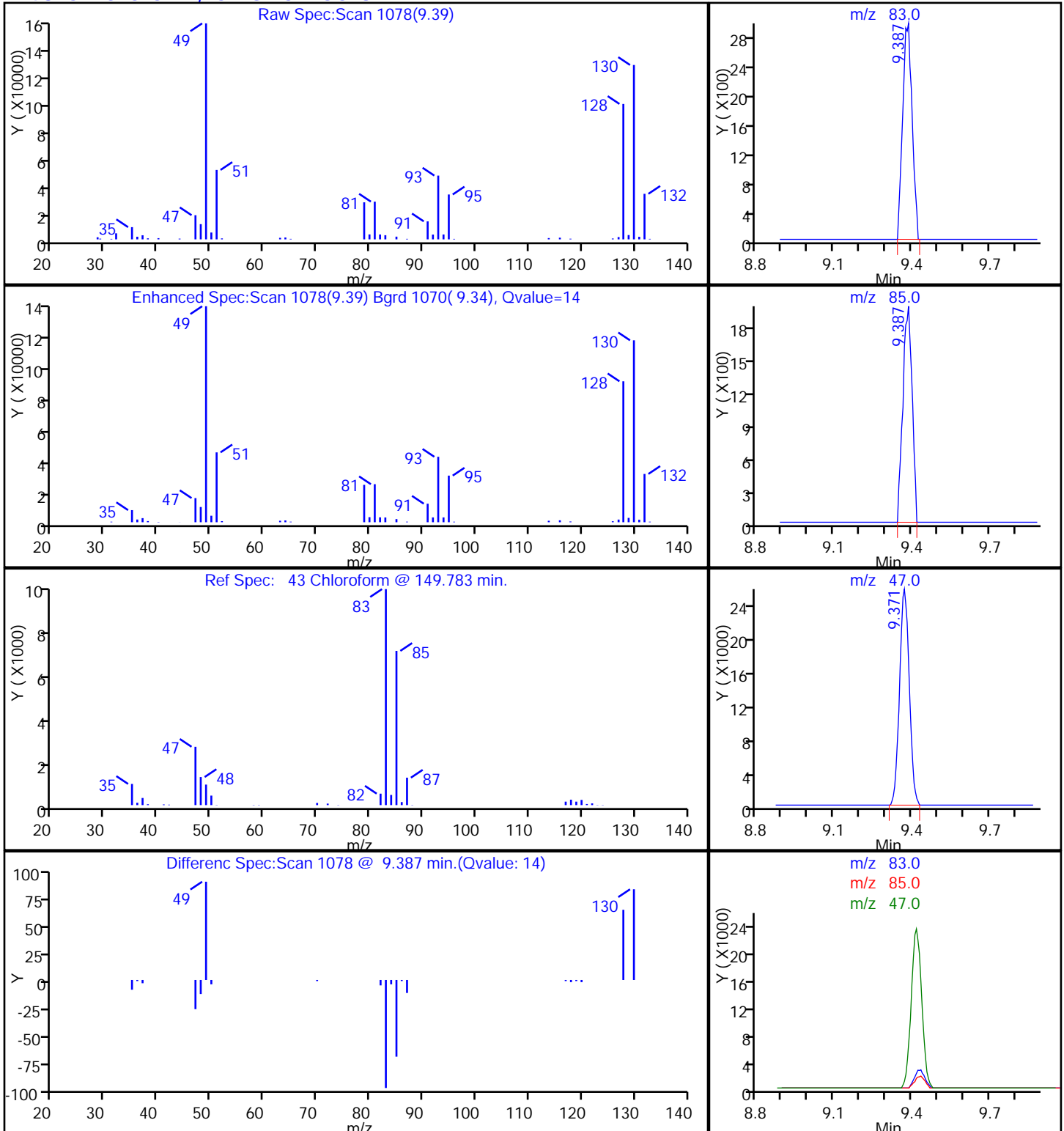
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

43 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

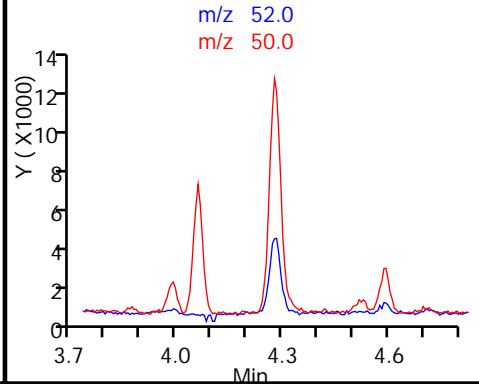
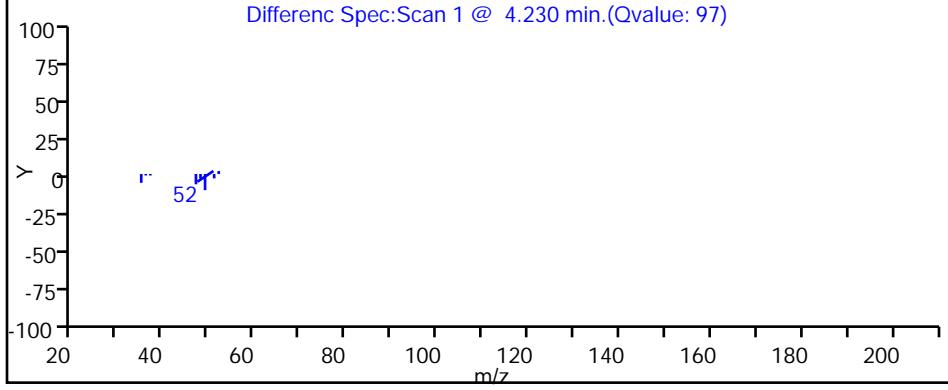
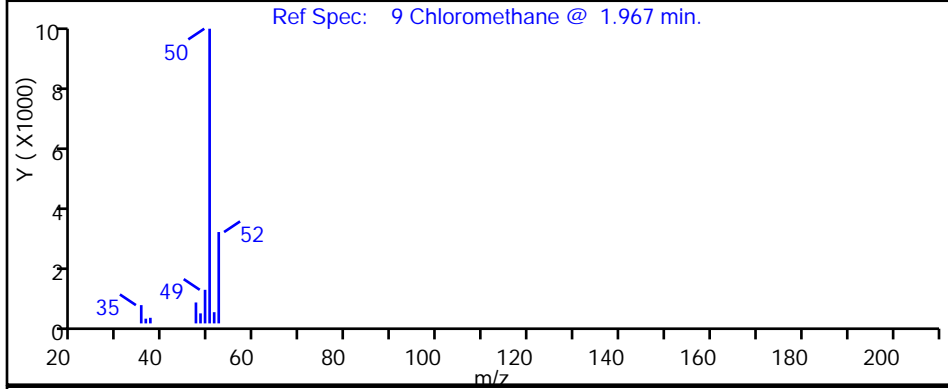
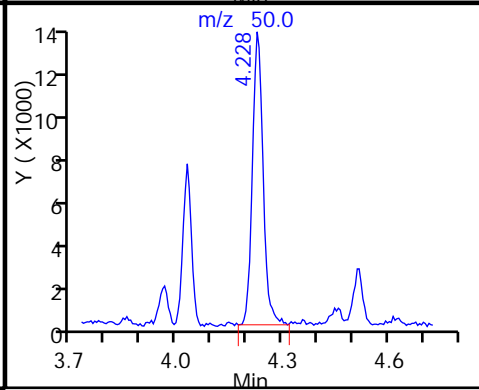
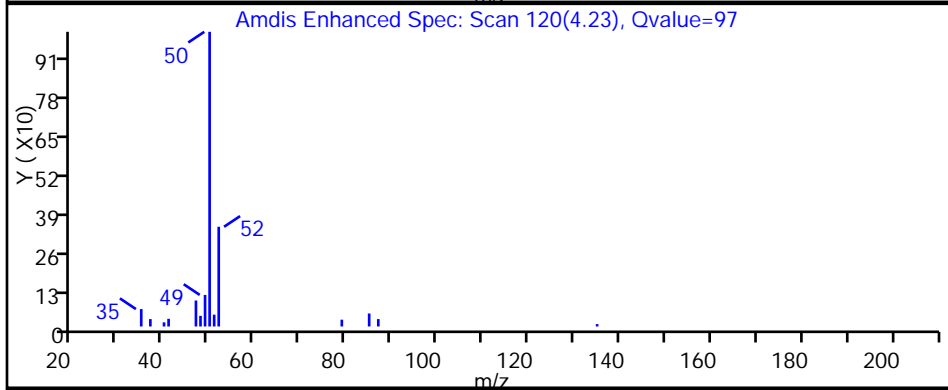
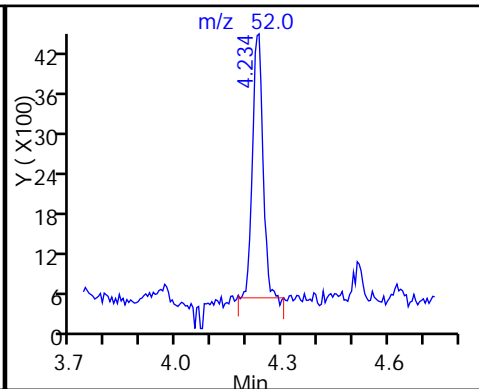
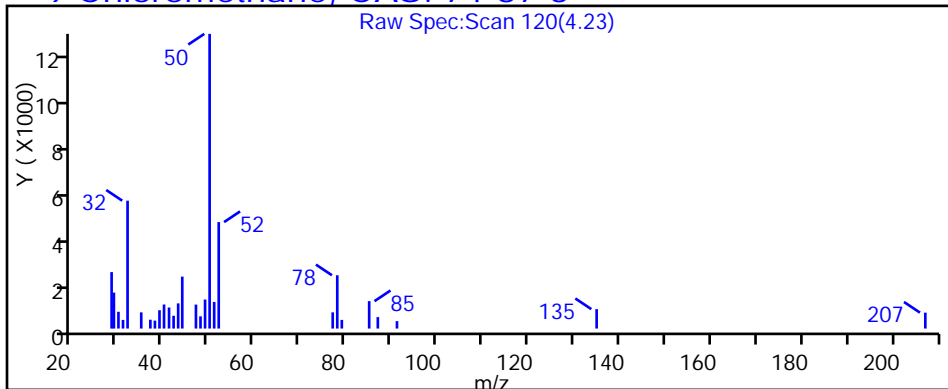
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

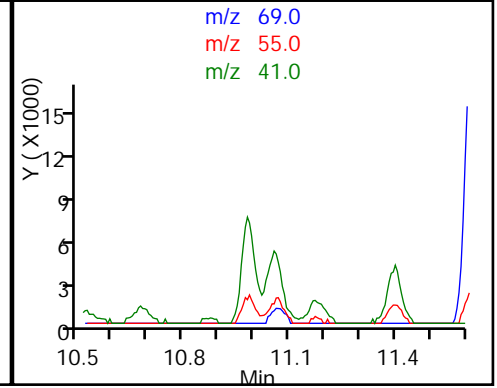
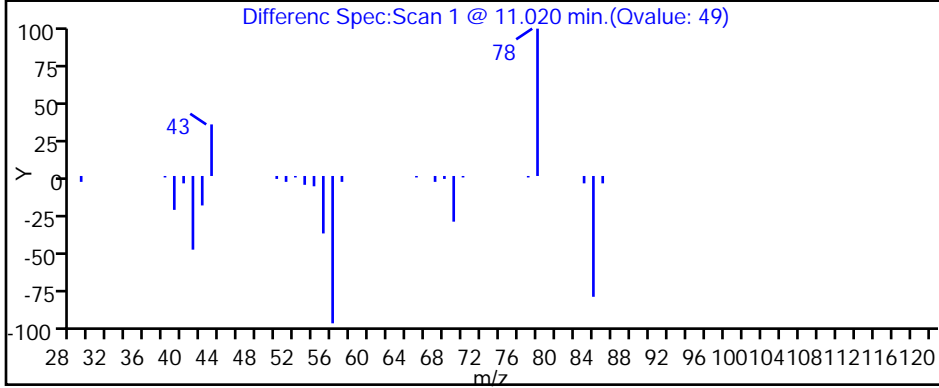
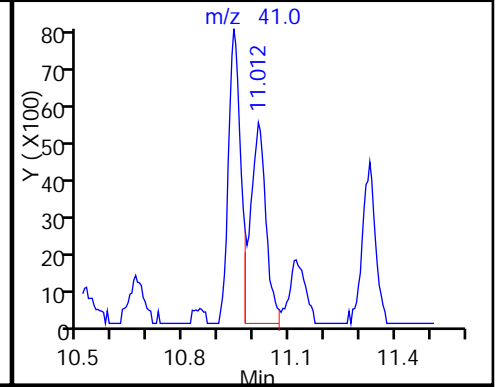
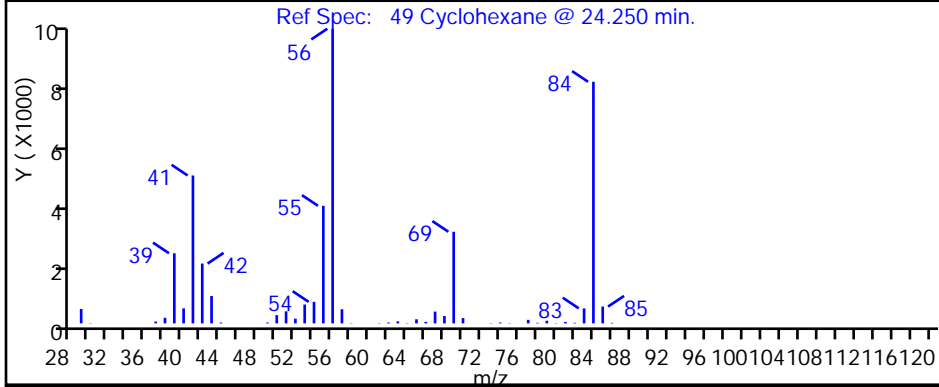
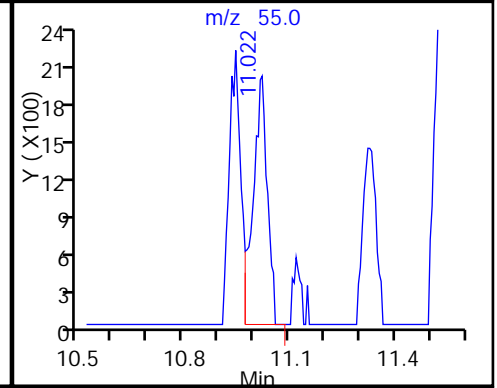
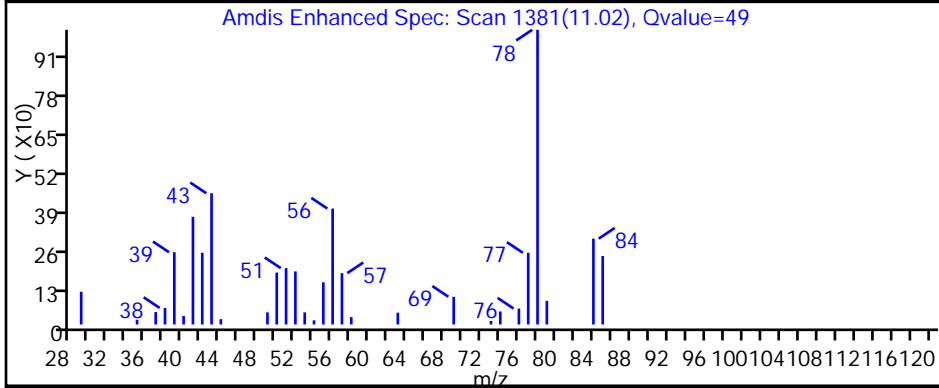
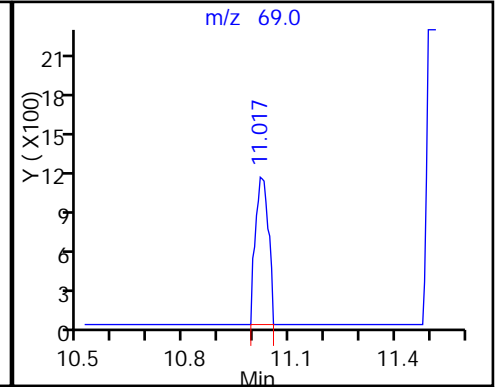
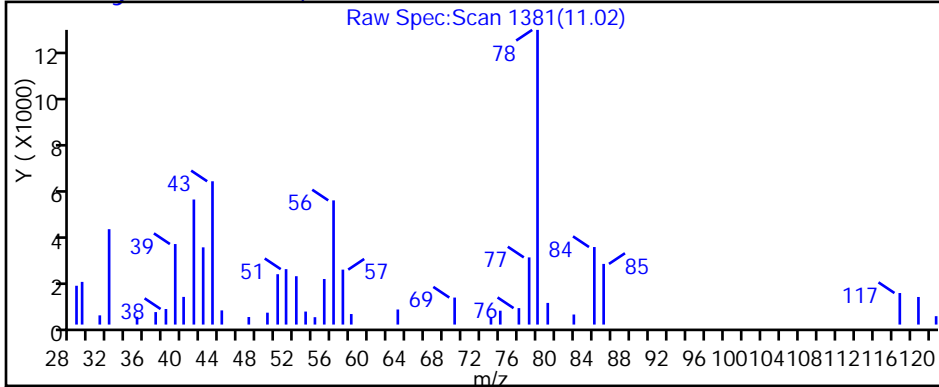
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

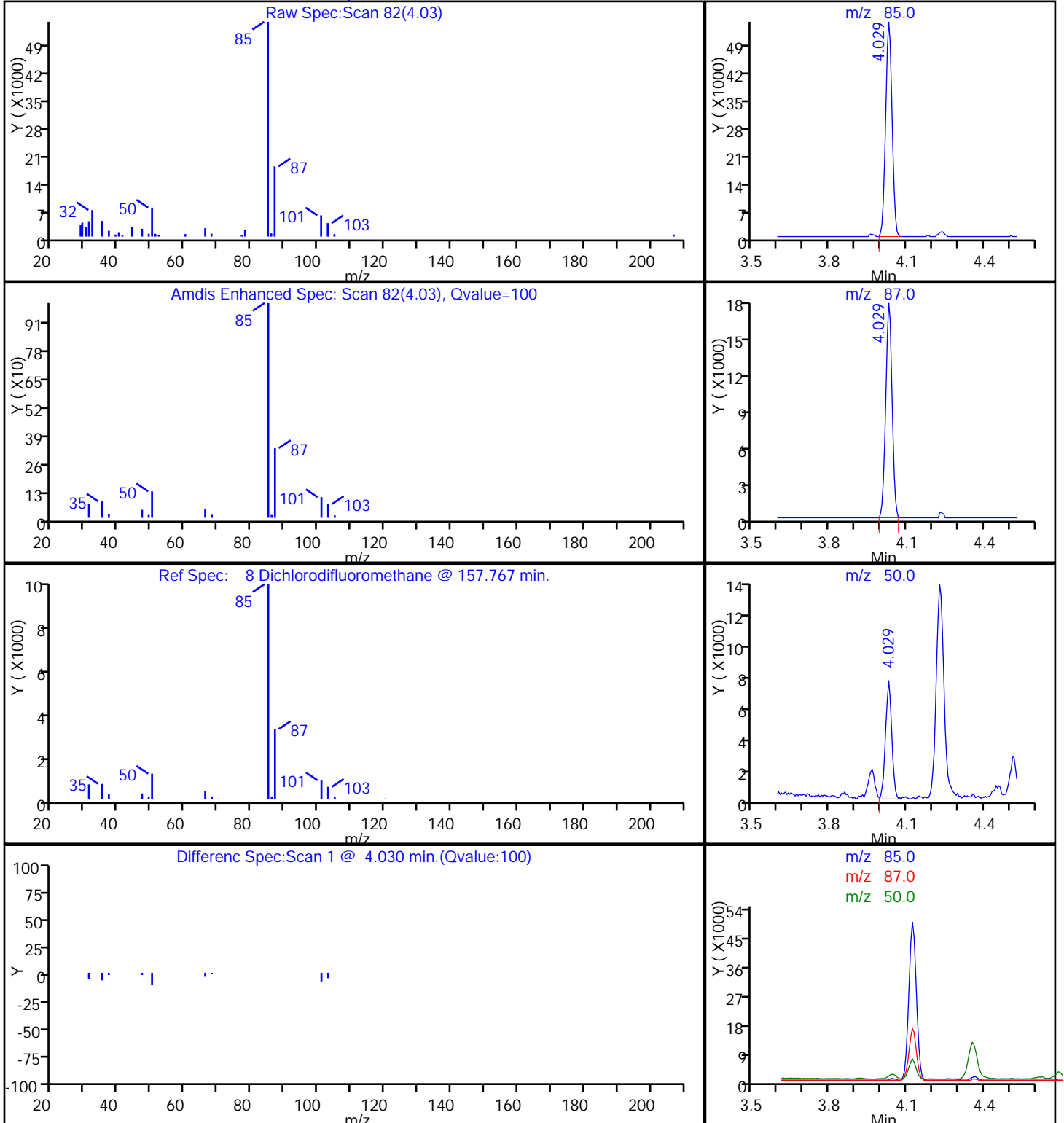
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

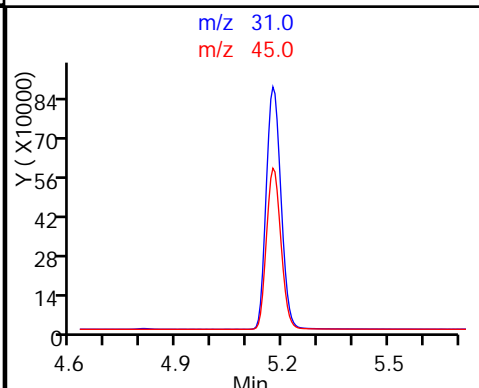
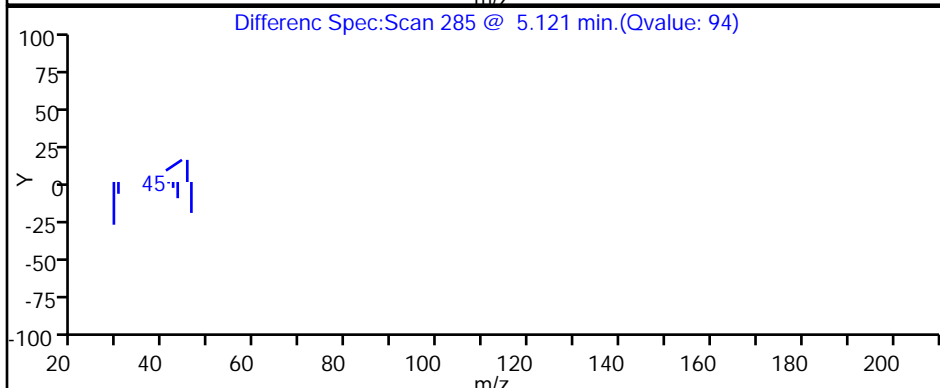
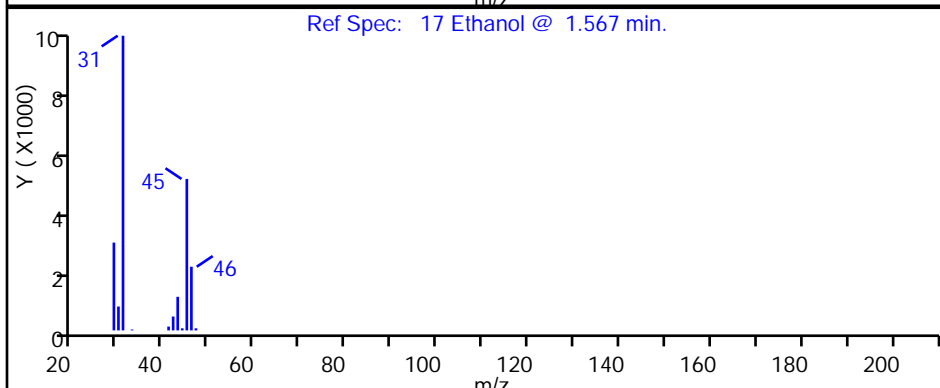
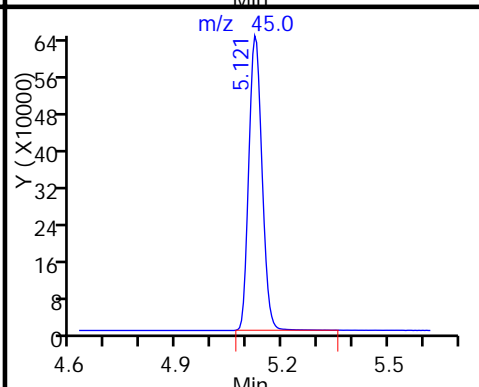
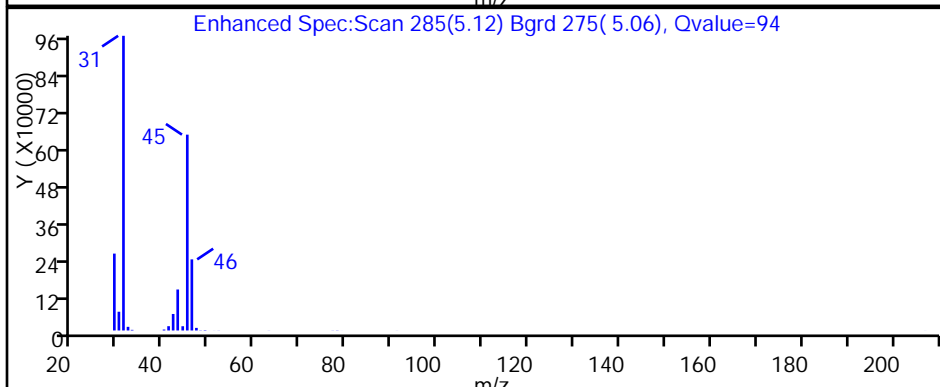
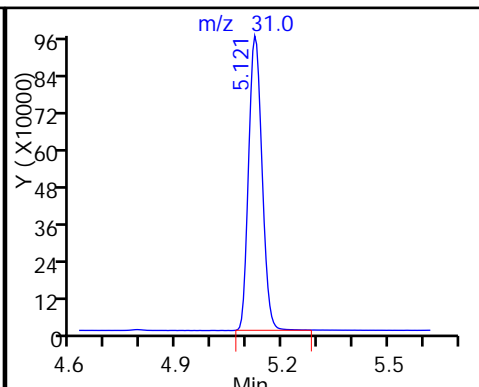
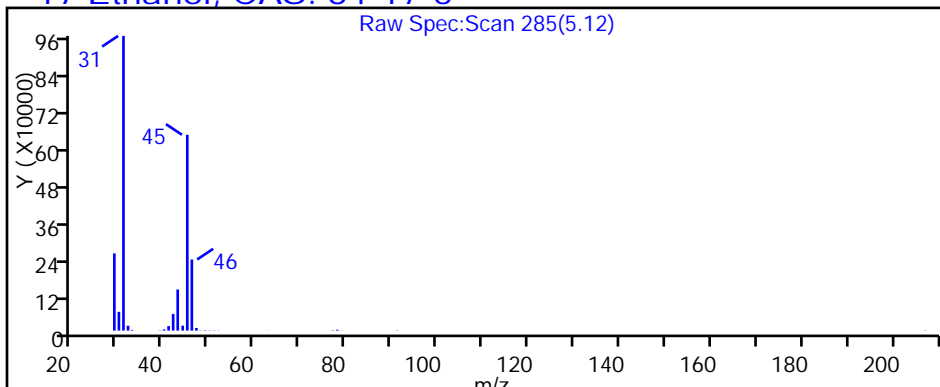
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

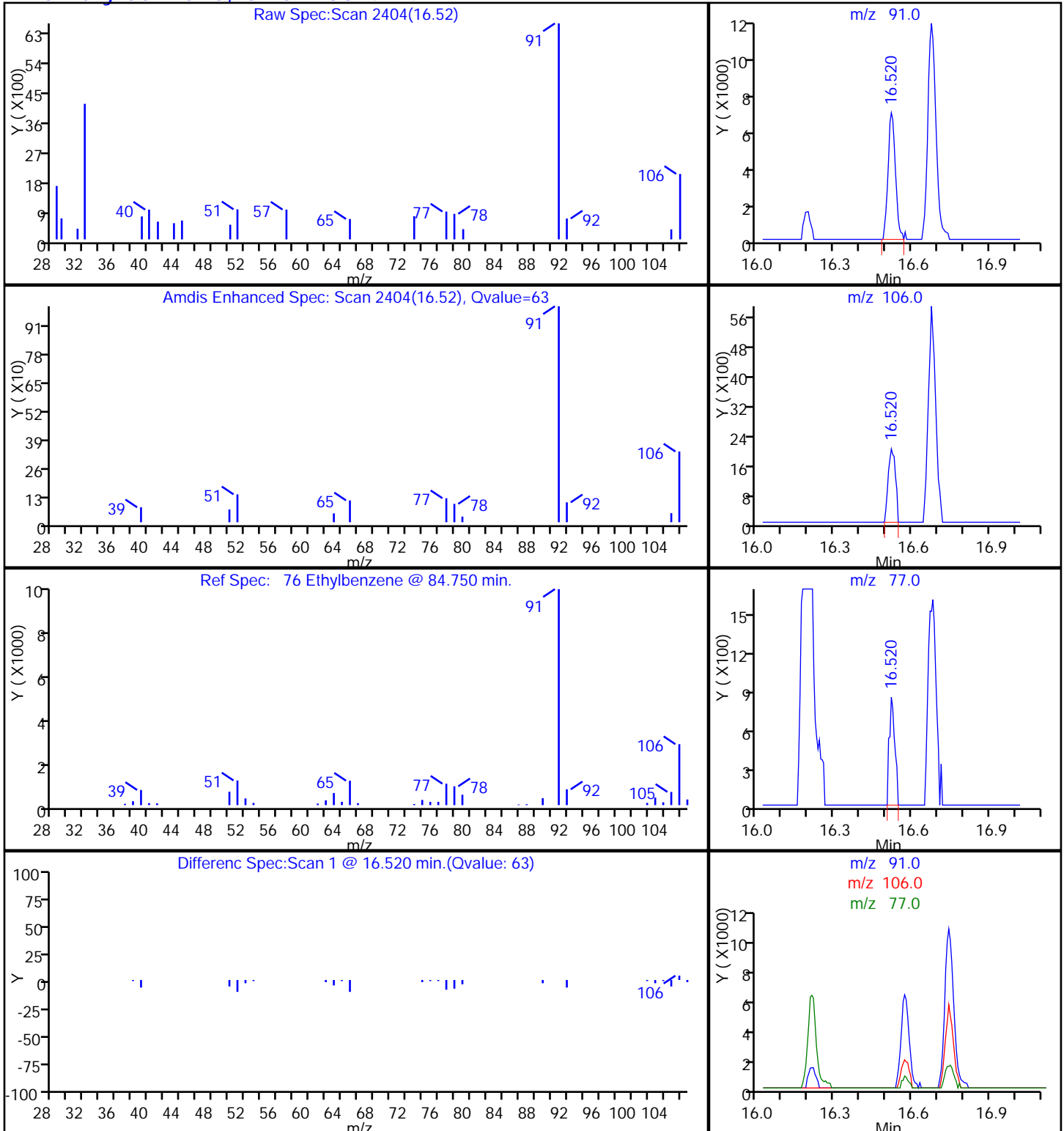
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

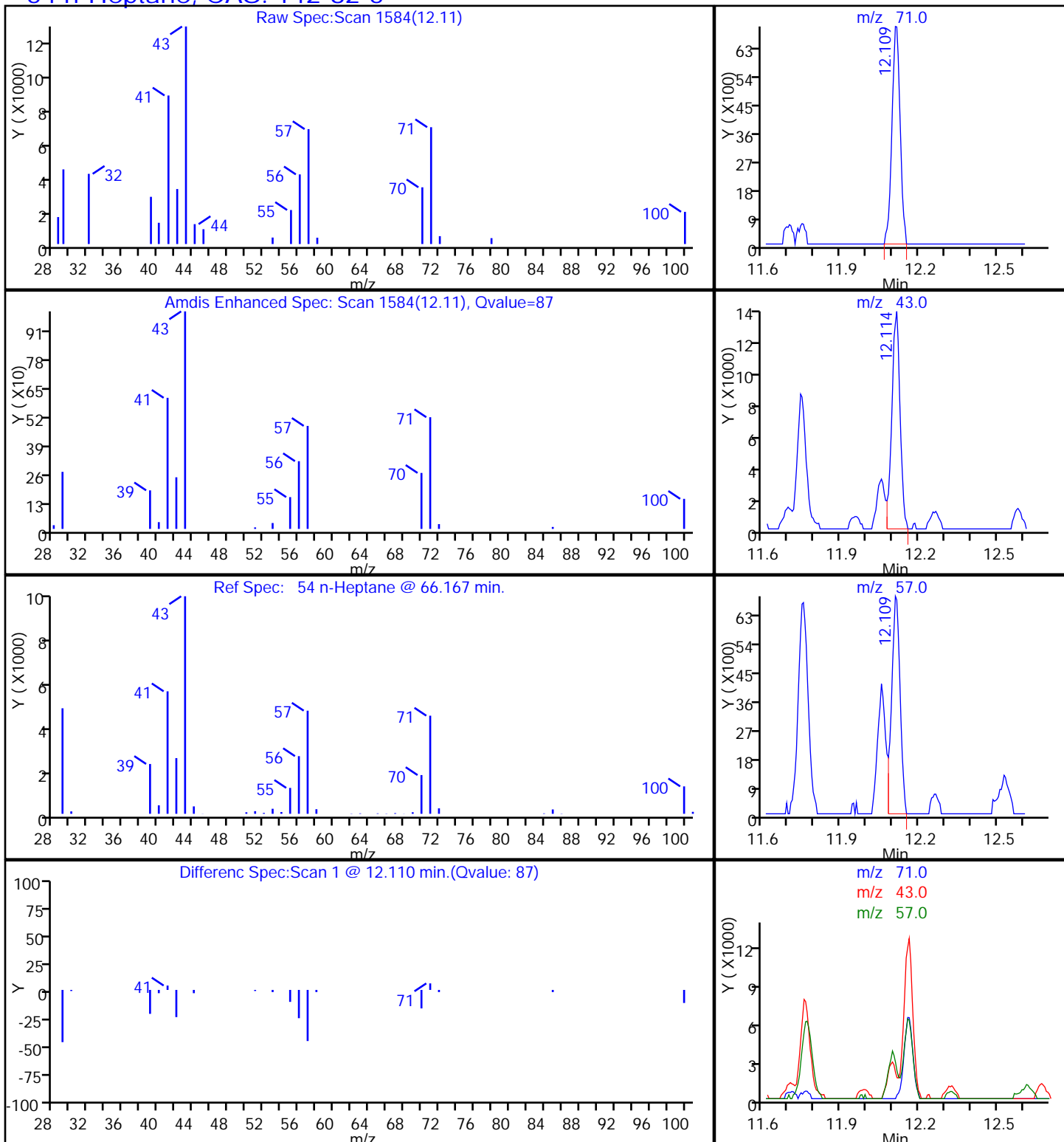
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

54 n-Heptane, CAS: 142-82-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

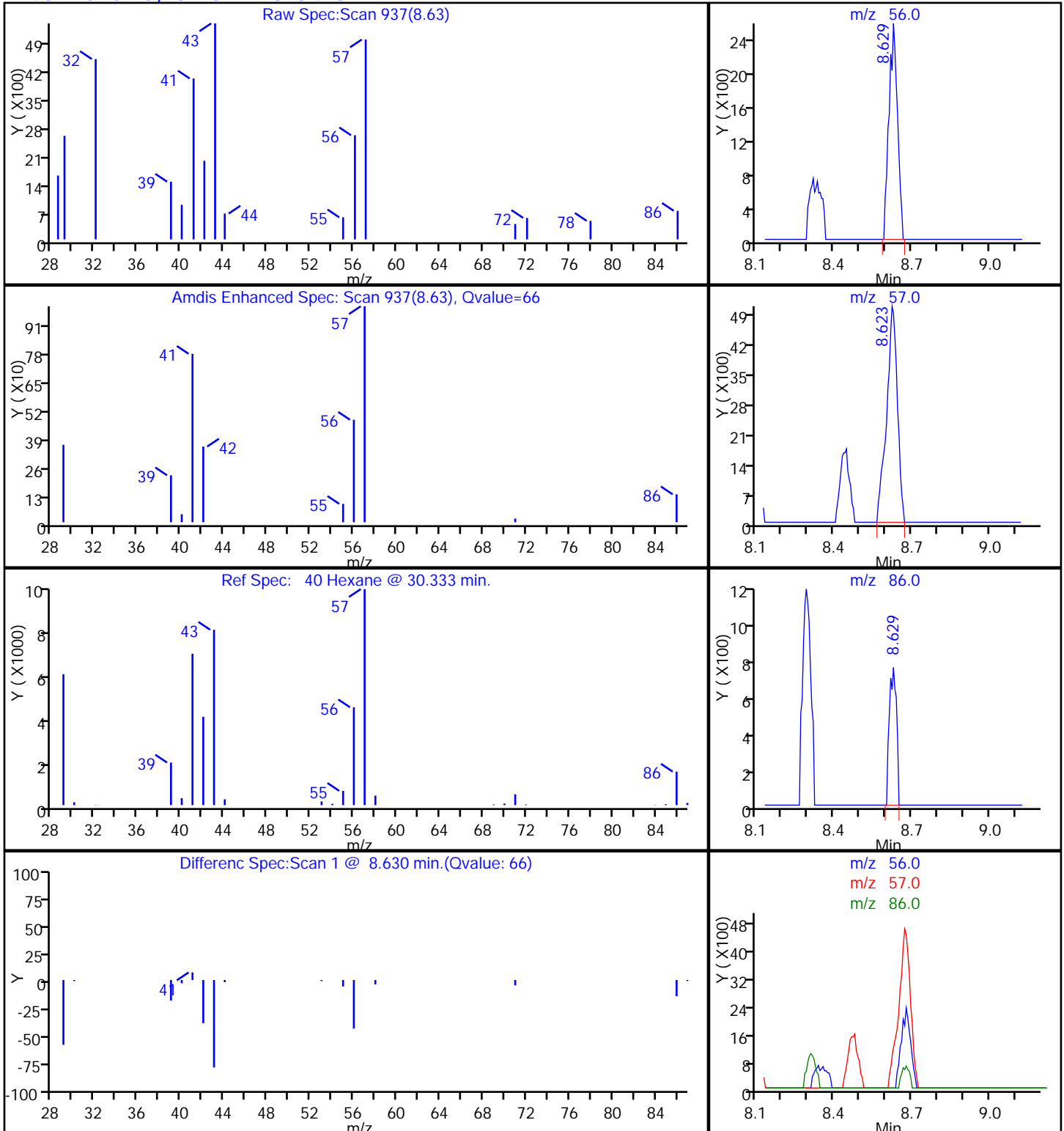
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

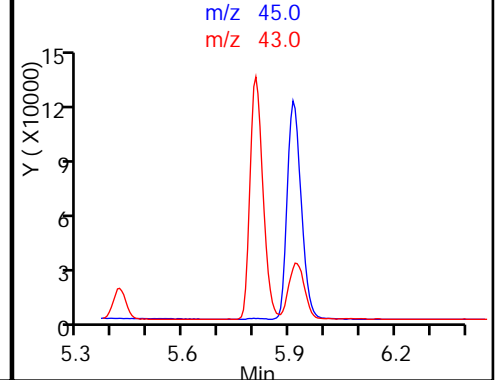
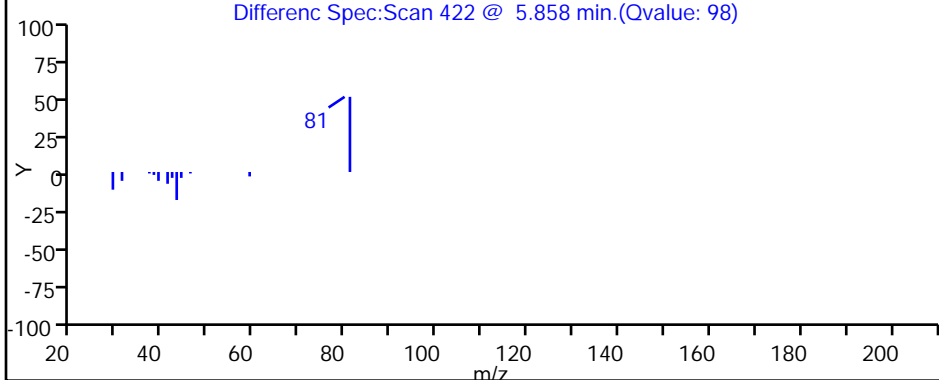
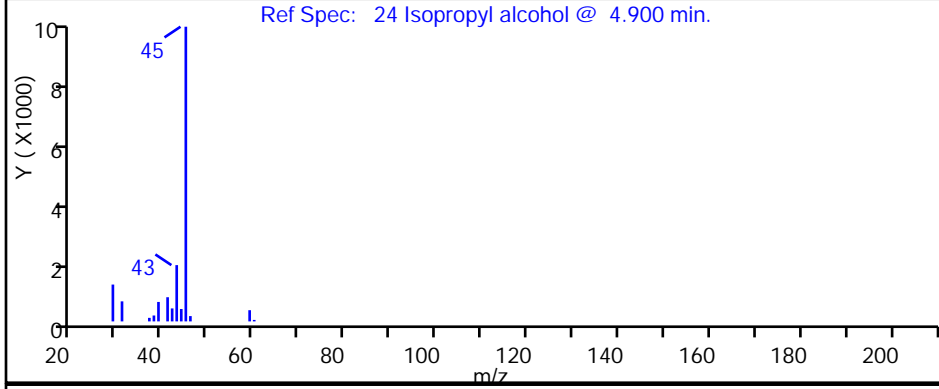
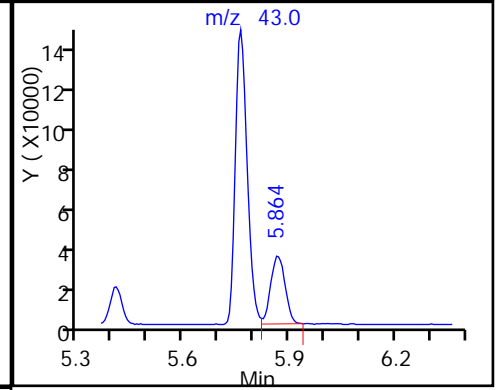
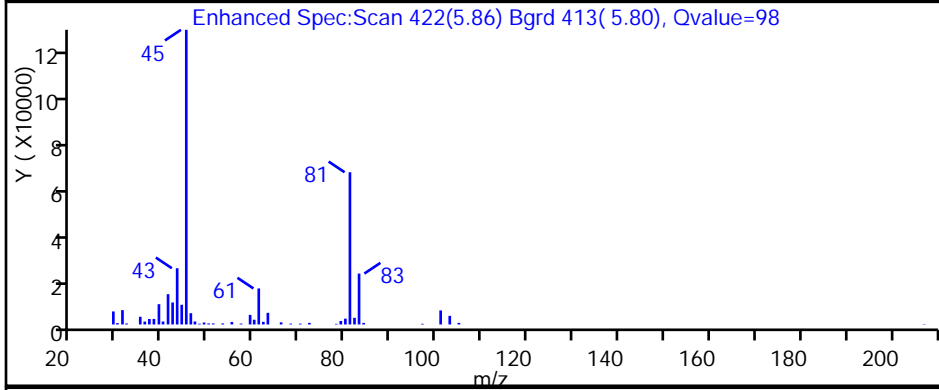
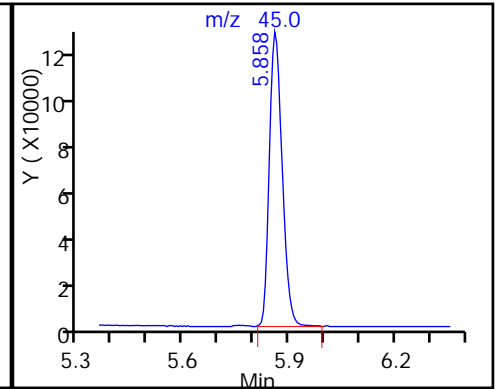
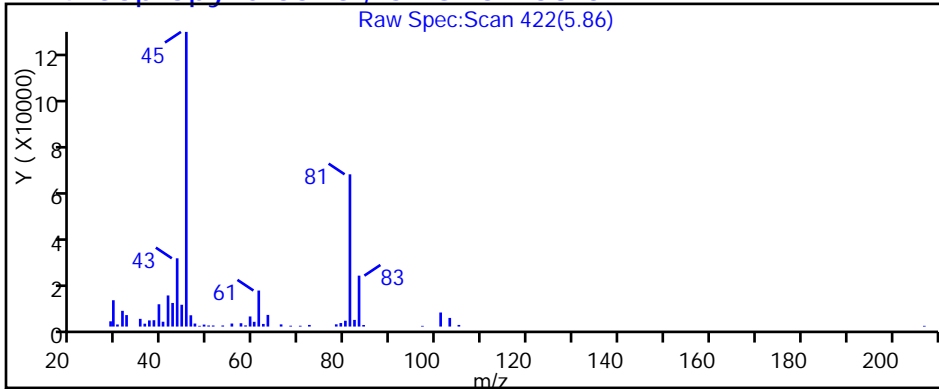
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

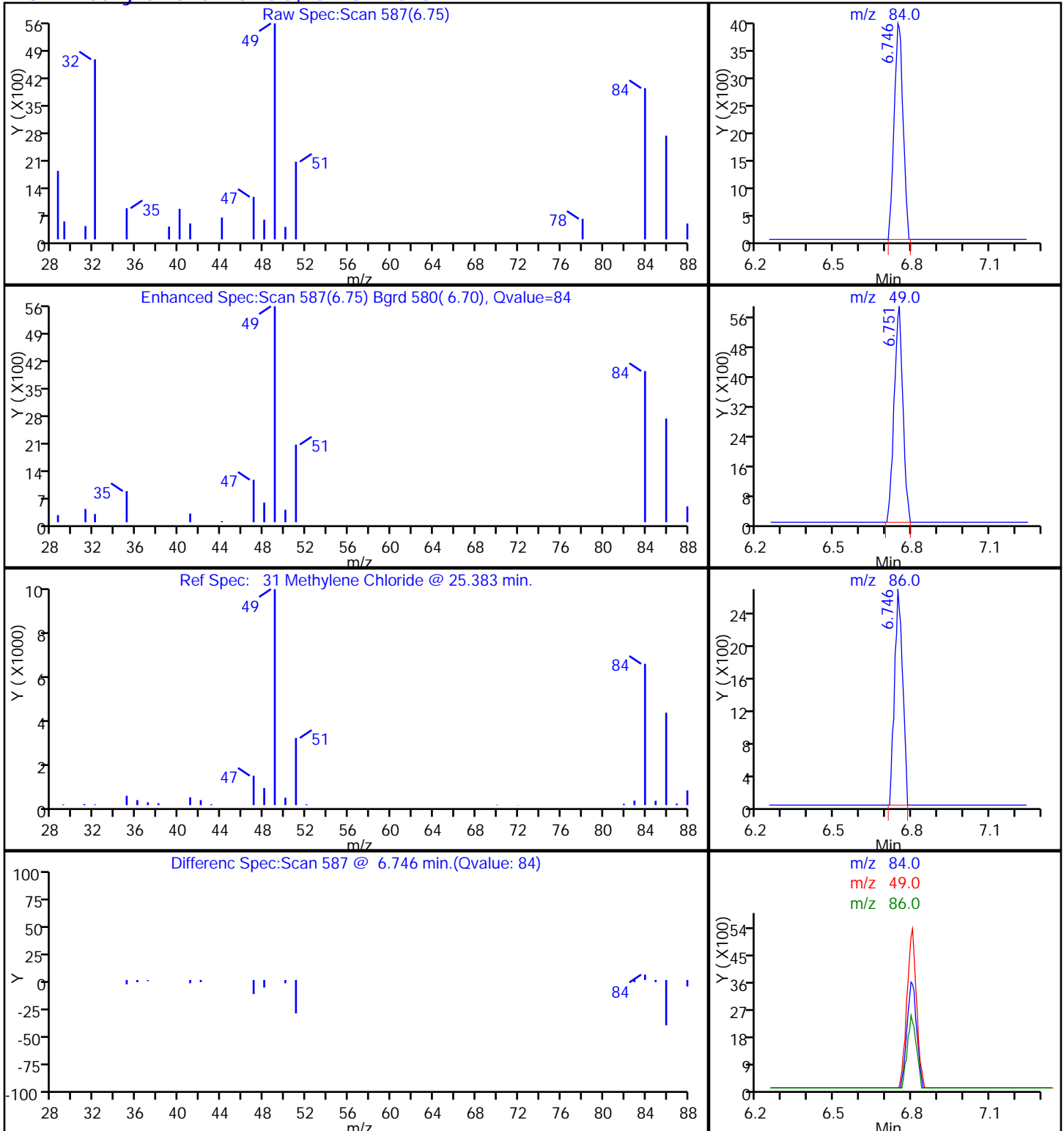
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

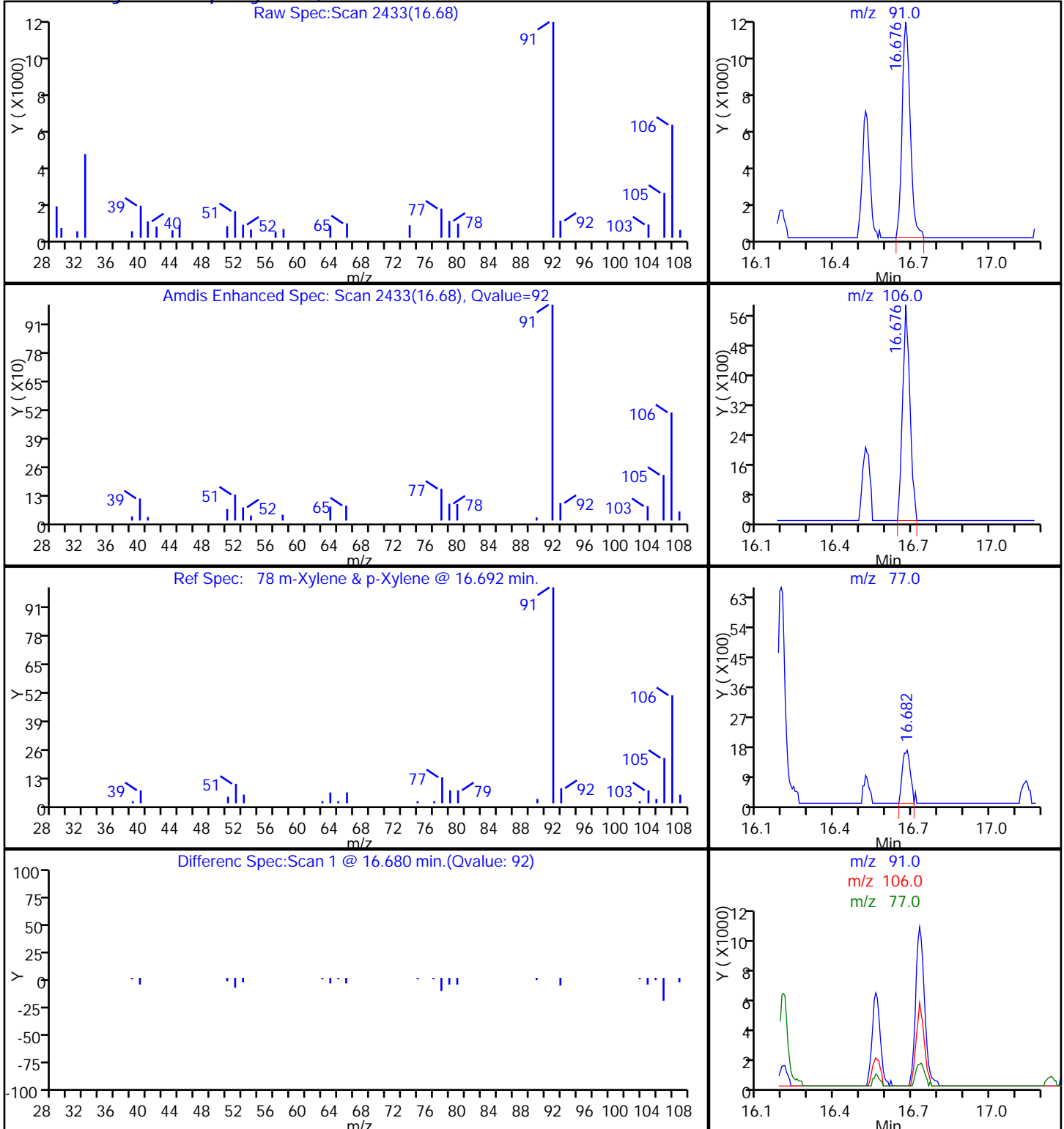
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

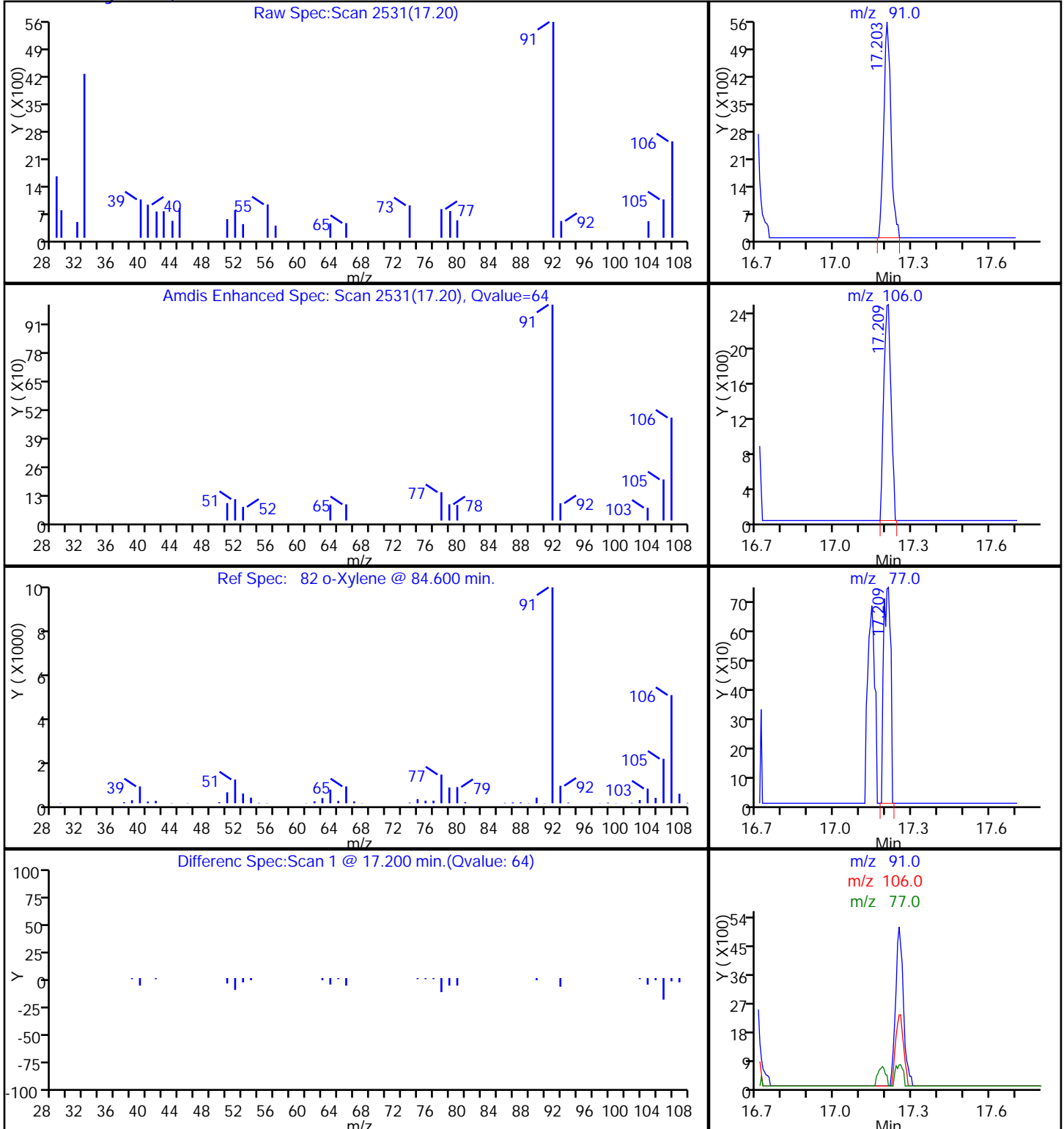
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

82 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

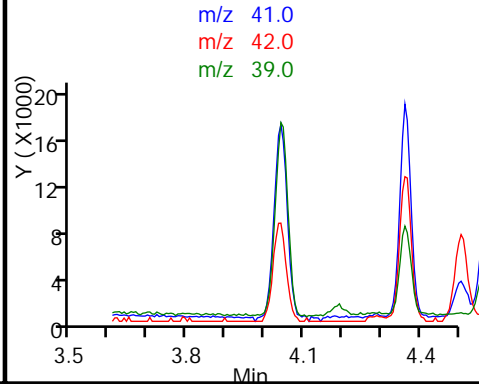
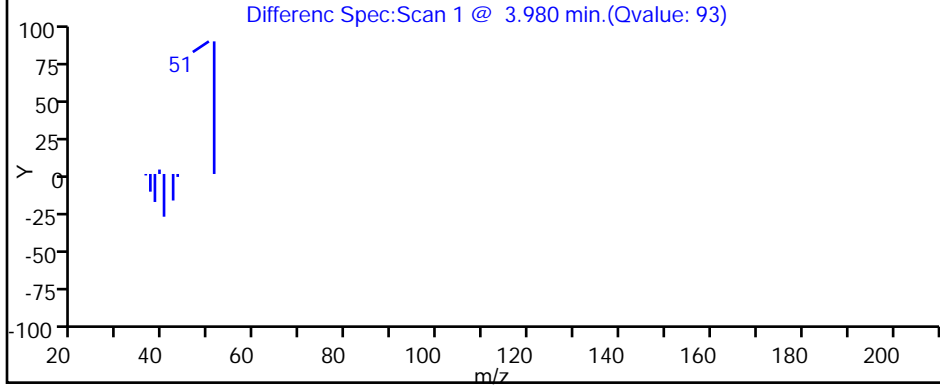
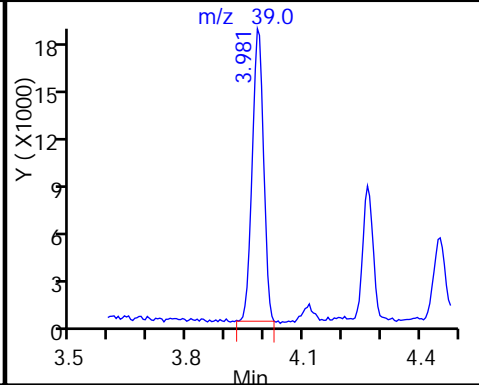
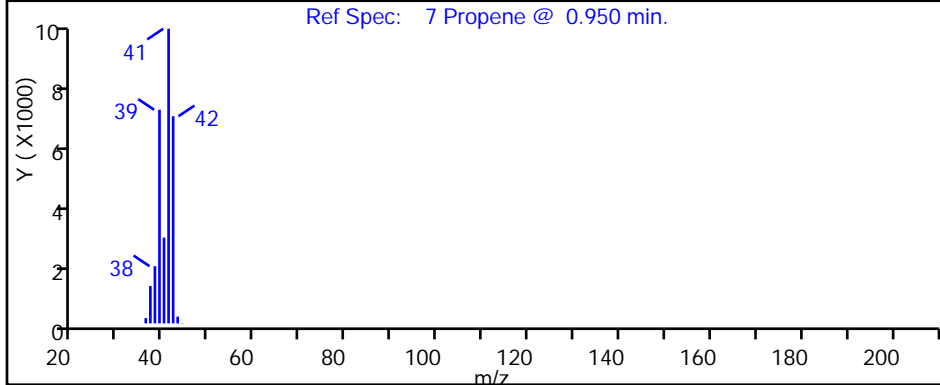
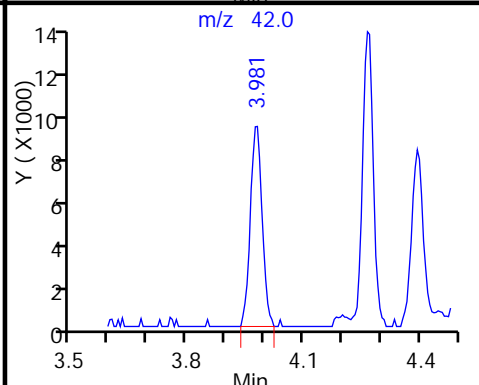
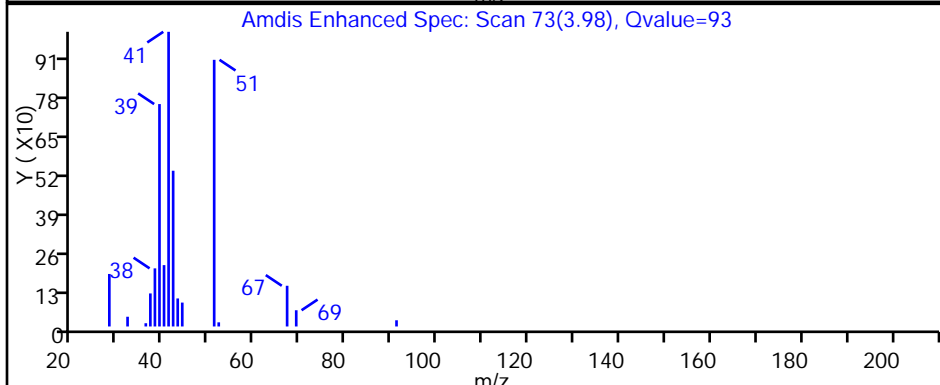
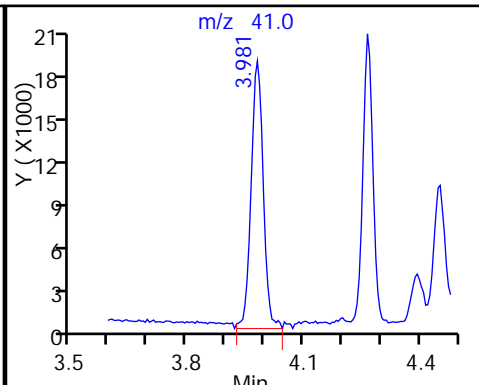
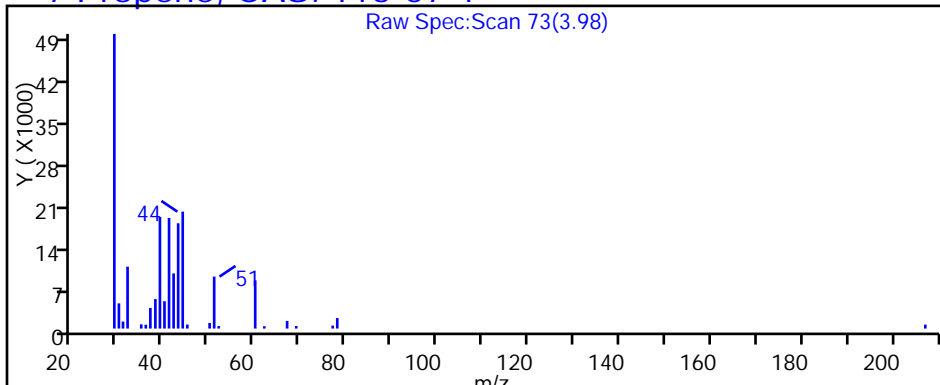
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

7 Propene, CAS: 115-07-1



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

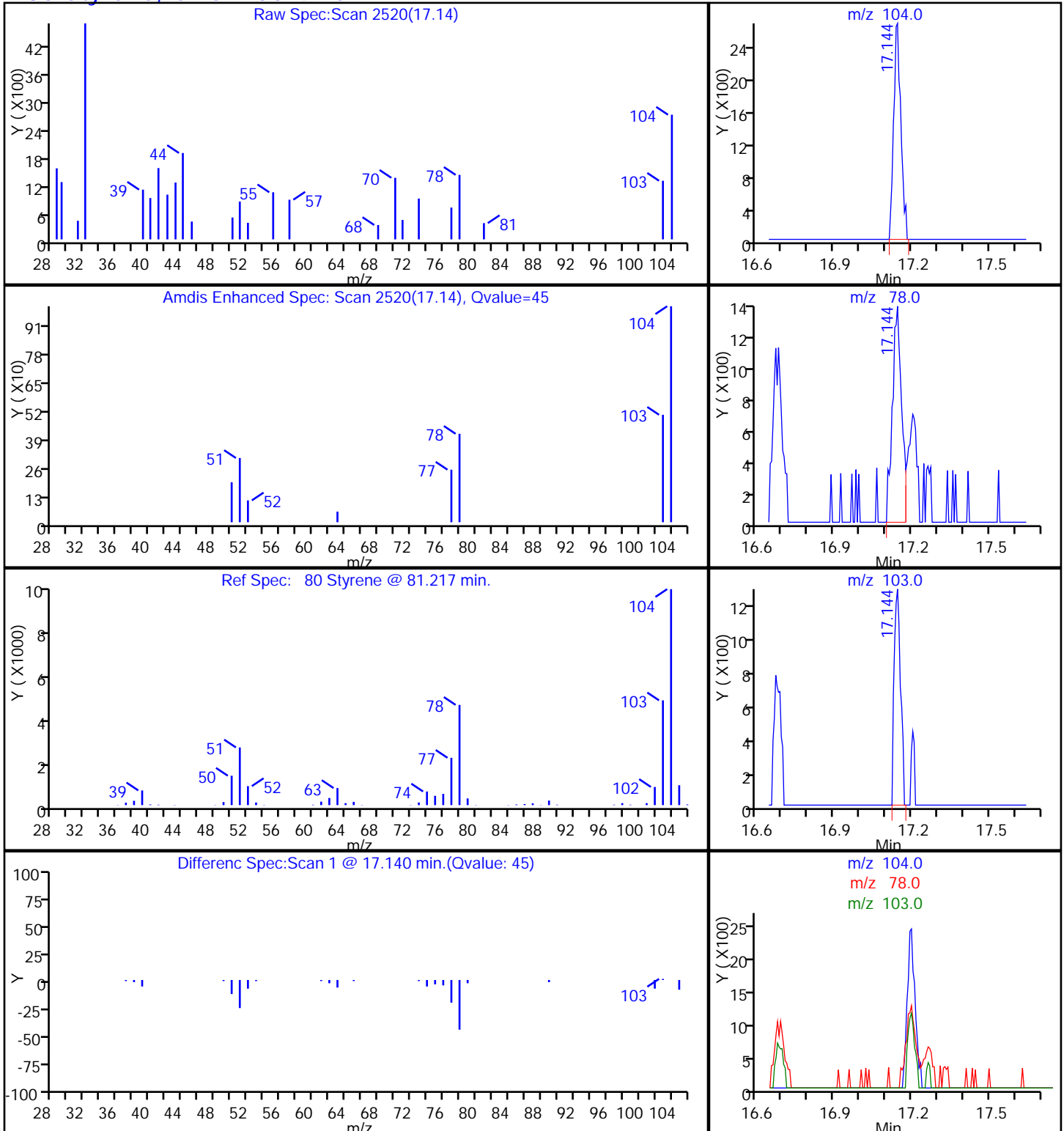
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

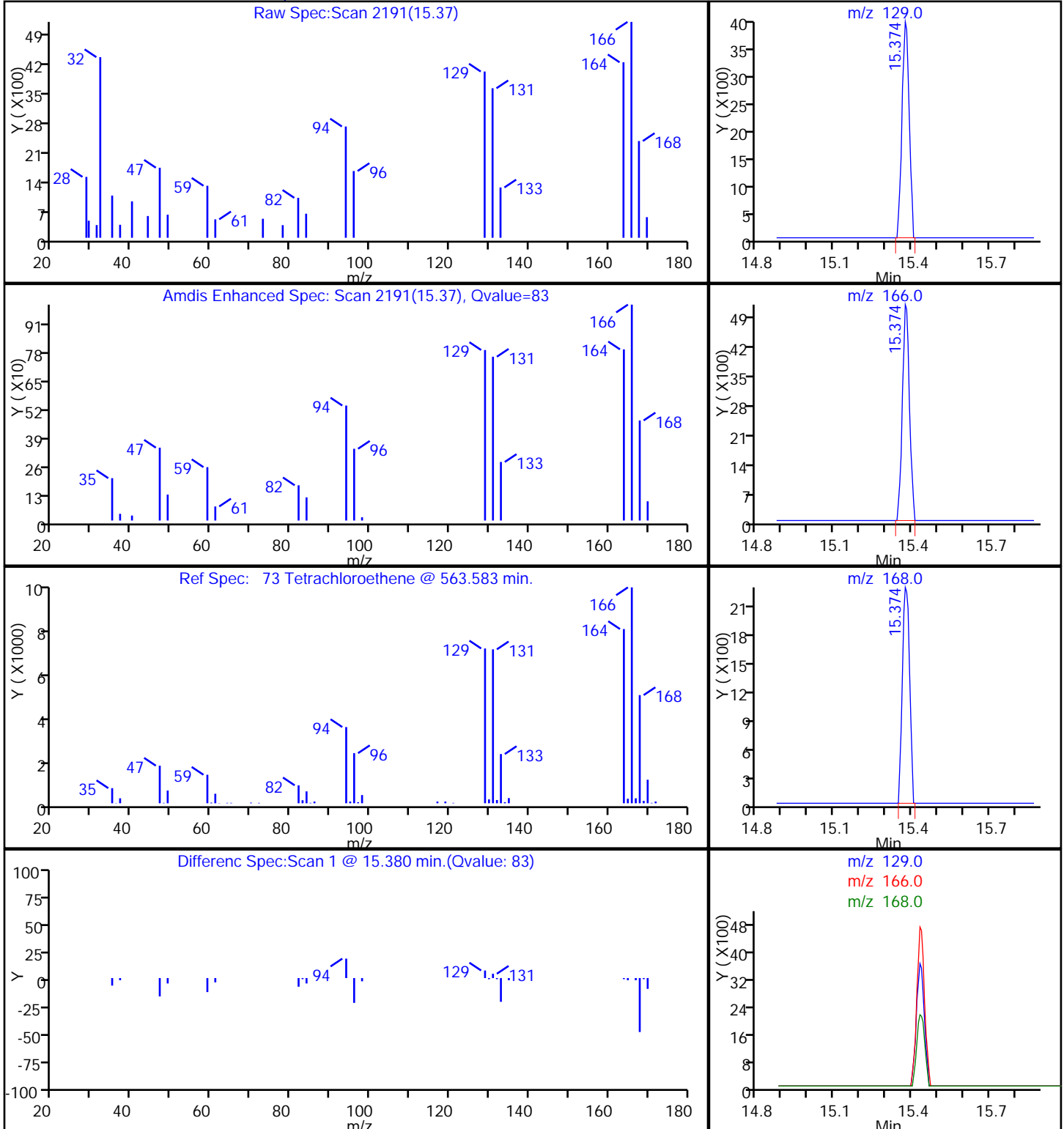
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

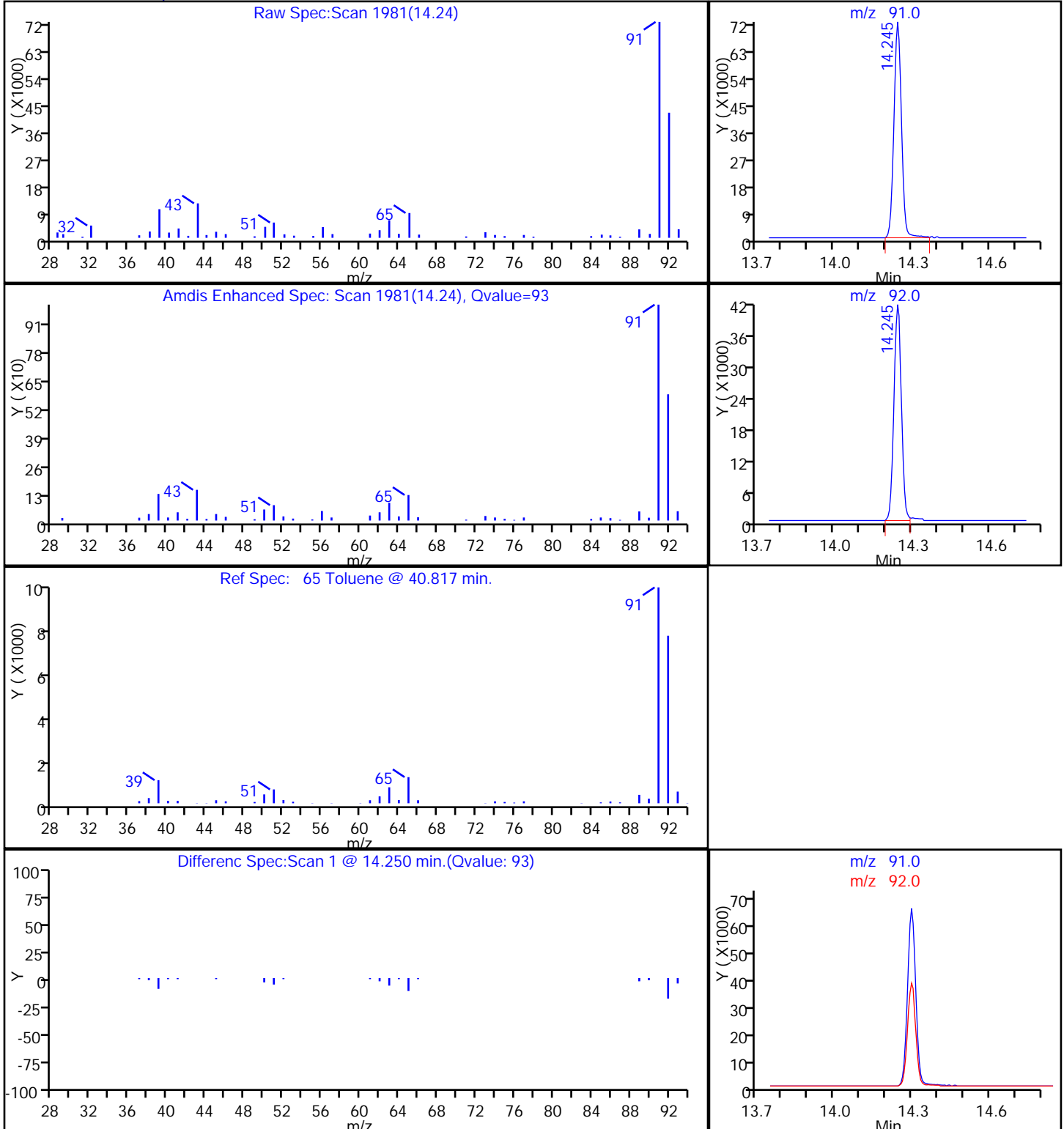
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D

Injection Date: 21-Mar-2014 23:34:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

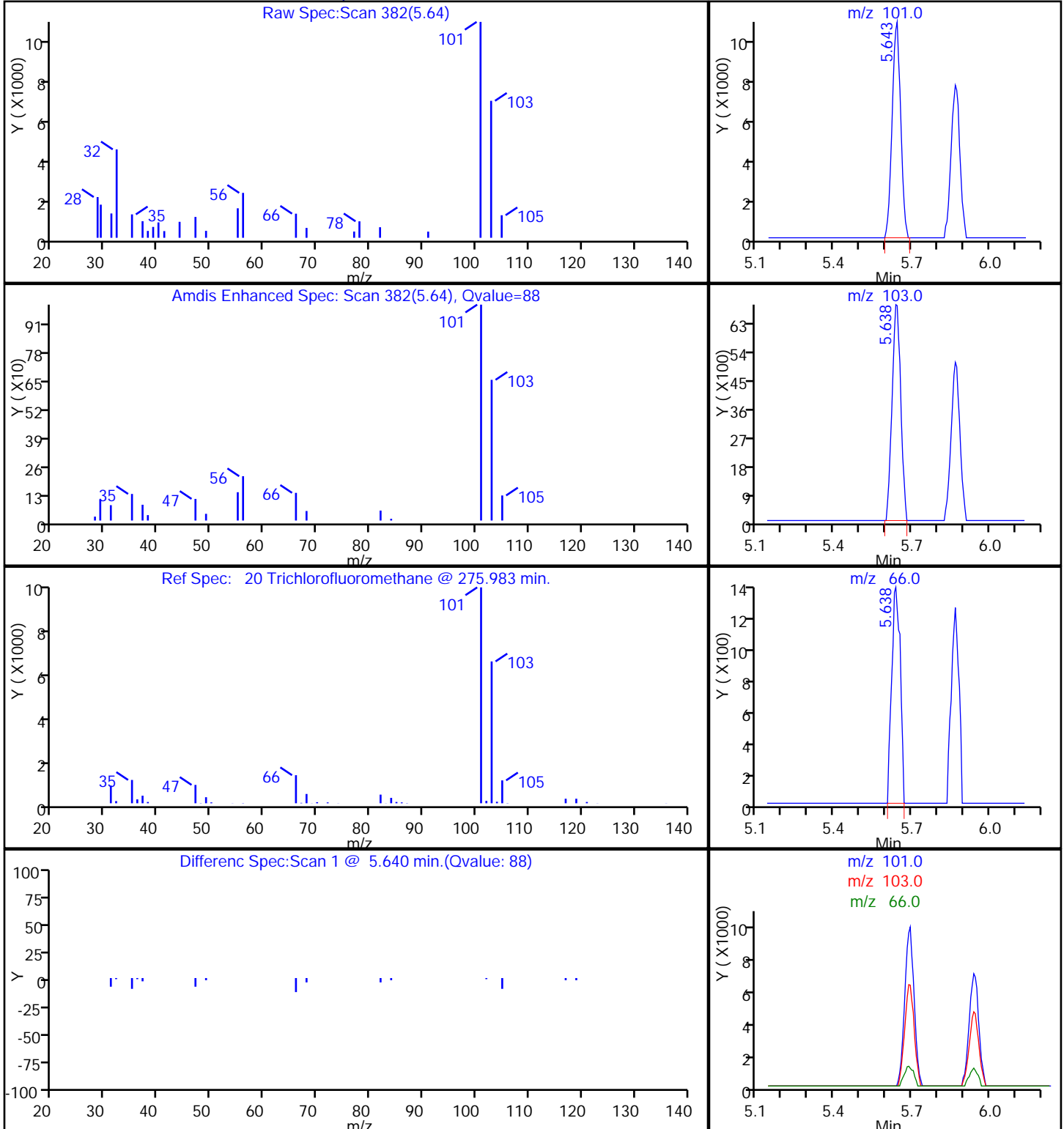
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



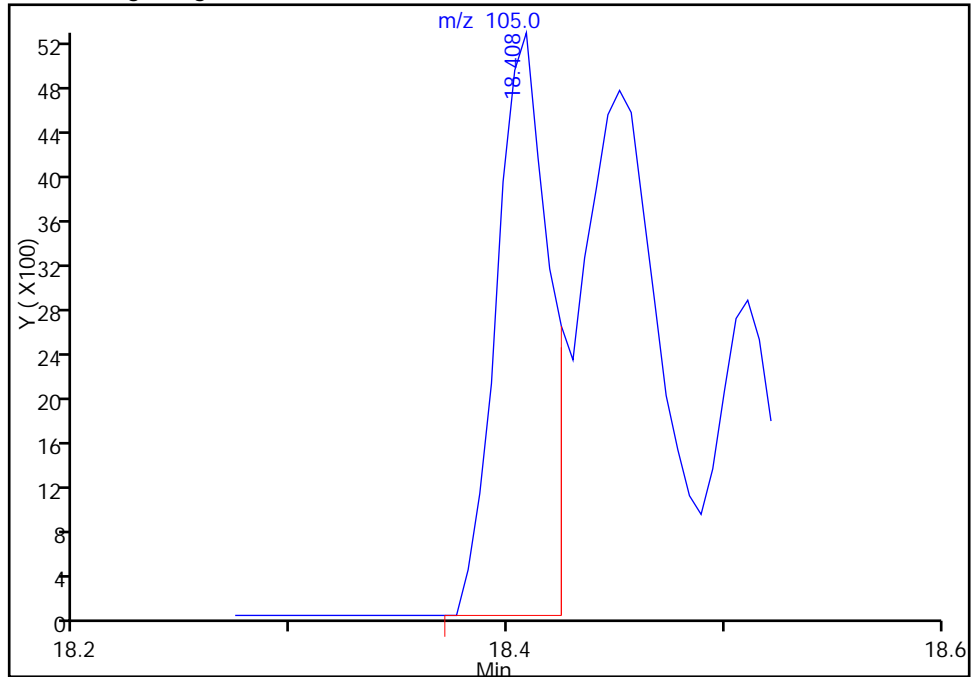
TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JC21P110.D
Injection Date: 21-Mar-2014 23:34:30 Instrument ID: MJ
Lims ID: 140-1073-A-1 Lab Sample ID: 140-1073-1
Client ID: SAMPLE 1- CRAWLSPACE
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

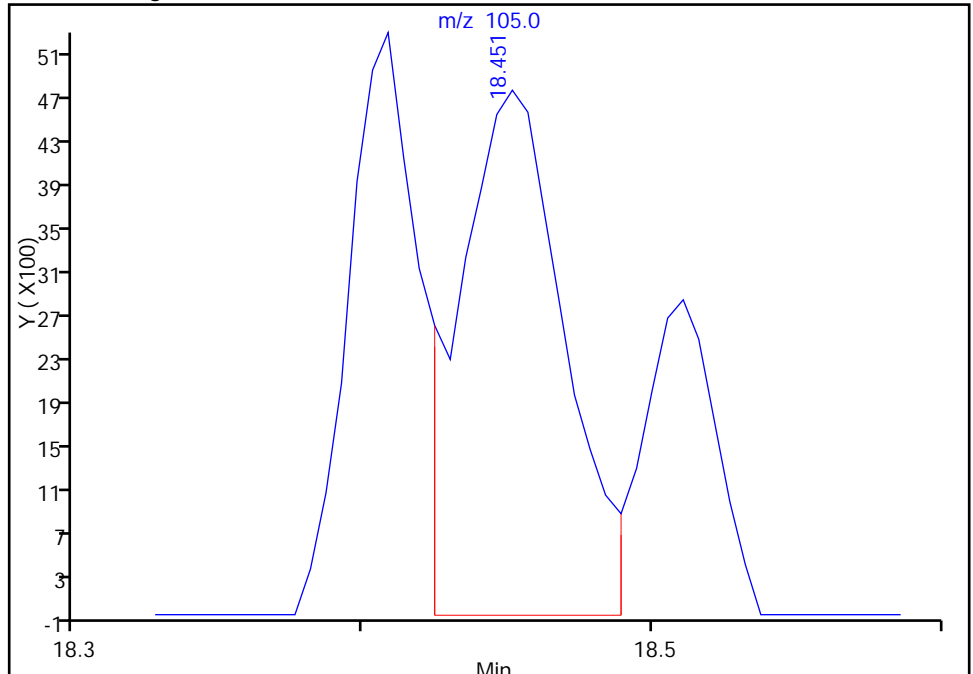
RT: 18.41
Response: 8889
Amount: 0.030087

Processing Integration Results



RT: 18.45
Response: 12203
Amount: 0.041304

Manual Integration Results



Reviewer: tajh, 24-Mar-2014 08:48:18
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE DL Lab Sample ID: 140-1073-1 DL
 Matrix: Air Lab File ID: JC24P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 100 (mL) Date Analyzed: 03/24/2014 22:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	240		4.0	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: SAMPLE 1- CRAWLSPACE DL Lab Sample ID: 140-1073-1 DL
 Matrix: Air Lab File ID: JC24P112.D
 Analysis Method: TO-15 Date Collected: 03/15/2014 15:32
 Sample wt/vol: 100 (mL) Date Analyzed: 03/24/2014 22:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
64-17-5	Ethanol	46.07	450		7.5	7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JC24P112.D
 Lims ID: 140-1073-A-1 Lab Sample ID: 140-1073-1
 Client ID: SAMPLE 1- CRAWLSPACE
 Sample Type: Client
 Inject. Date: 24-Mar-2014 22:33:30 ALS Bottle#: 12 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1073-a-1
 Misc. Info.: J032414,TO15,,140-0000545-016
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140321-545.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 25-Mar-2014 07:04:06 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 25-Mar-2014 07:06:24

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.371	9.374	-0.003	91	358645	4.00	
* 2 1,4-Difluorobenzene	114	11.528	11.532	-0.004	94	1774668	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.192	16.195	-0.003	87	1484709	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.811	17.815	-0.004	91	1007761	3.84	
7 Propene	41	3.980	3.973	0.007	90	23863	0.2170	
8 Dichlorodifluoromethane	85	4.029	4.033	-0.004	100	48423	0.1363	
9 Chloromethane	52	4.228	4.232	-0.004	88	4559	0.1130	
17 Ethanol	31	5.115	5.114	0.001	95	1384983	48.1	
19 2-Methylbutane	43	5.406	5.410	-0.004	89	23009	0.1511	
20 Trichlorofluoromethane	101	5.637	5.641	-0.004	76	12764	0.0409	
23 Acetone	58	5.766	5.770	-0.004	92	58125	1.14	
24 Isopropyl alcohol	45	5.852	5.845	0.007	97	158653	1.18	
30 1,1,2-Trichloro-1,2,2-trifluoroethane	101	6.573	6.577	-0.004	41	2716	0.0126	
31 Methylene Chloride	84	6.740	6.755	-0.015	82	7948	0.0828	
39 2-Butanone (MEK)	72	8.596	8.584	0.012	96	3615	0.1065	
40 Hexane	56	8.623	8.627	-0.004	69	3827	0.0397	
43 Chloroform	83	9.381	9.385	-0.004	3	3882	0.0186	
44 Tetrahydrofuran	42	9.666	9.789	-0.123	18	9796	0.1179	
48 Benzene	78	11.011	11.015	-0.004	84	18172	0.0597	
49 Cyclohexane	69	11.017	11.026	-0.009	41	1153	0.0192	
53 Isooctane	57	11.754	11.757	-0.003	64	9521	0.0183	
54 n-Heptane	71	12.109	12.112	-0.003	81	7719	0.0717	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.366	0.007	47	3665	0.0197	
65 Toluene	91	14.244	14.248	-0.004	92	79367	0.2882	
73 Tetrachloroethene	129	15.374	15.378	-0.004	71	3529	0.0275	
76 Ethylbenzene	91	16.676	16.524	0.152	70	15086	0.0496	
78 m-Xylene & p-Xylene	91	16.676	16.680	-0.004	88	15087	0.0615	
82 o-Xylene	91	17.203	17.207	-0.004	32	6739	0.0271	
93 1,2,4-Trimethylbenzene	105	18.935	18.939	-0.004	47	7387	0.0256	
96 Benzyl chloride	91	19.414	19.273	0.141	1	10331	0.0480	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JC24P112.D

Injection Date: 24-Mar-2014 22:33:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Worklist Smp#: 16

Client ID: SAMPLE 1- CRAWLSPACE

Purge Vol: 500.000 mL

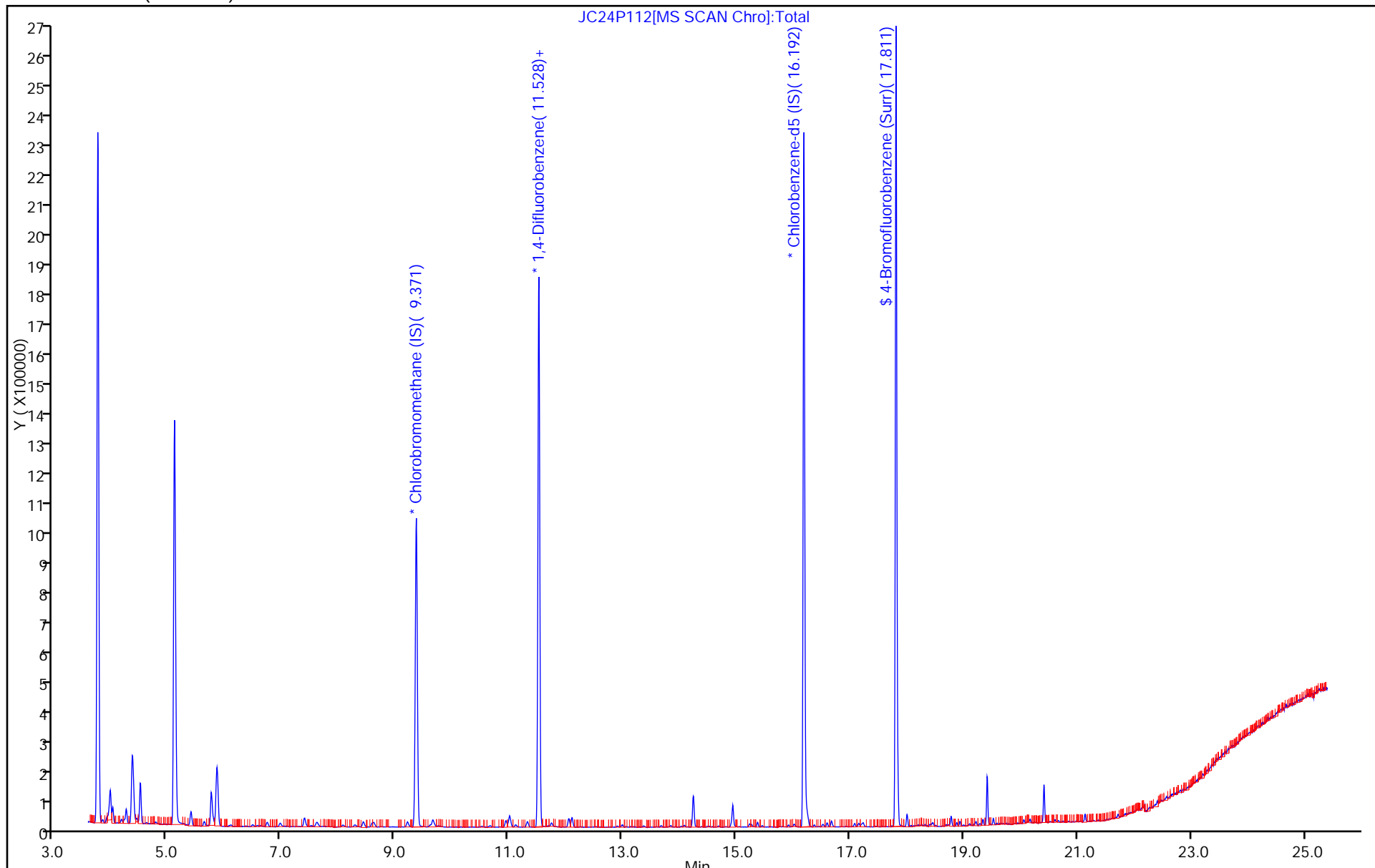
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JC24P112.D

Injection Date: 24-Mar-2014 22:33:30

Instrument ID: MJ

Lims ID: 140-1073-A-1

Lab Sample ID: 140-1073-1

Client ID: SAMPLE 1- CRAWLSPACE

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

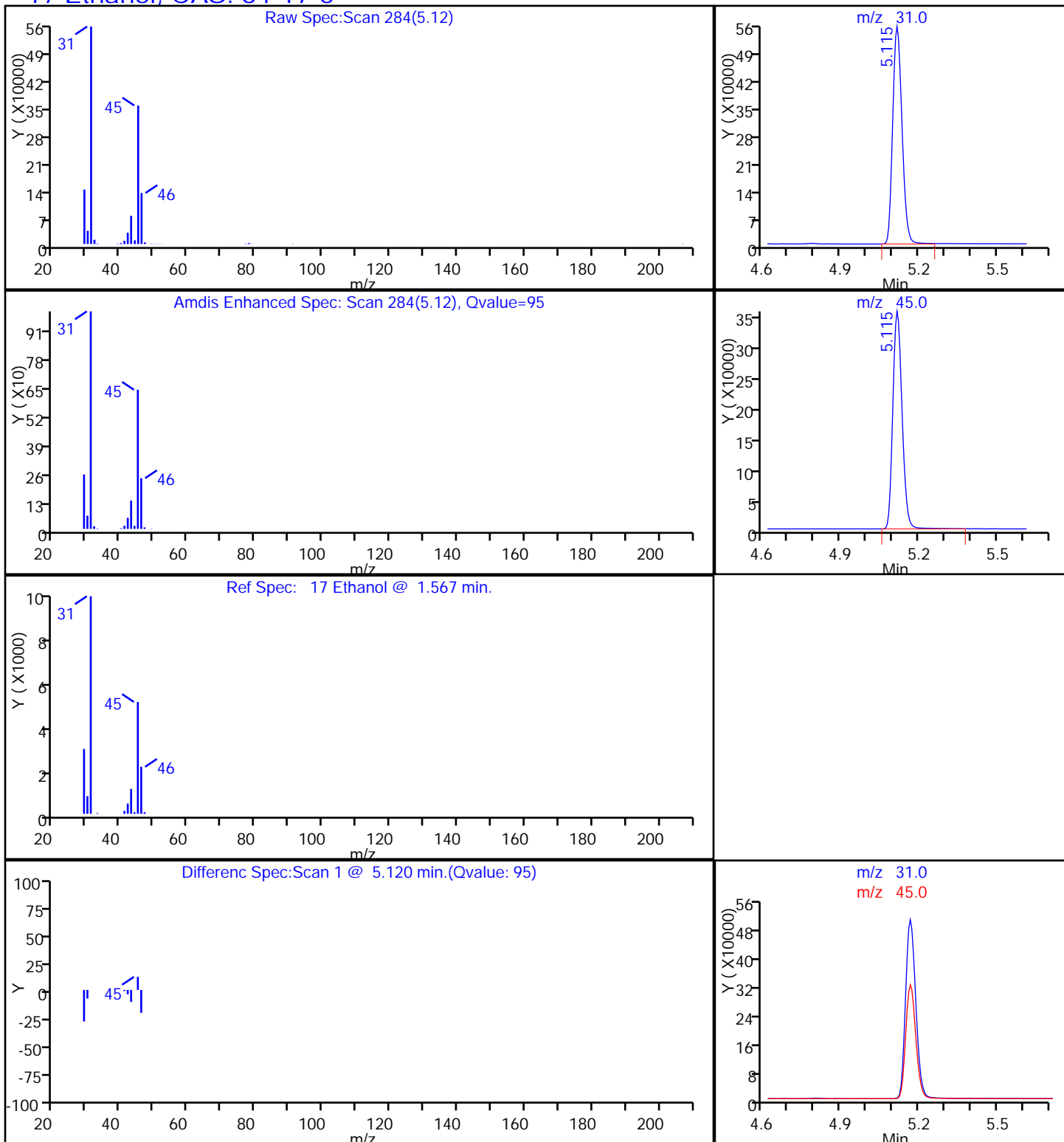
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Chlorodifluoromethane	++++ 0.3753	0.4978 0.3659	0.5073 0.4196	0.4028 0.3604	0.3733	Ave	0.4128				14.0		30.0				
Propene	++++ 1.1609	++++ 1.0928	1.5479 1.2091	1.3069 1.0396	1.2285	Ave	1.2265				14.0		30.0				
Dichlorodifluoromethane	4.0543 3.8605	4.1829 3.7019	4.4748 4.1665	3.9221 3.4793	3.8163	Ave	3.9621				7.4		30.0				
Chloromethane	0.4990 0.4300	0.5059 0.4083	0.5376 0.4477	0.4430 0.3527	0.4267	Ave	0.4501				13.0		30.0				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.0829 2.9363	2.9387 2.9036	3.2994 3.3134	2.7218 2.8449	2.8704	Ave	2.9902				6.8		30.0				
Acetaldehyde	++++ 0.3869	++++ 0.3394	0.5021 0.4038	0.3733 0.3144	0.4428	Ave	0.3947				16.0		40.0				
Vinyl chloride	1.5245 1.4510	1.5243 1.3825	1.7385 1.5461	1.4871 1.2615	1.4309	Ave	1.4829				8.8		30.0				
1,3-Butadiene	1.0318 0.9981	1.1281 0.9554	1.1902 1.0690	1.0309 0.8729	0.9968	Ave	1.0304				9.0		30.0				
Butane	2.4463 1.9819	2.4604 1.8724	2.4977 2.0463	2.0911 1.6158	1.9815	Ave	2.1104				14.0		30.0				
Bromomethane	1.6099 1.4285	1.6087 1.3888	1.7128 1.5877	1.4631 1.3671	1.4070	Ave	1.5082				8.2		30.0				
Chloroethane	0.7289 0.6460	0.7041 0.6345	0.7842 0.7144	0.6734 0.6077	0.6467	Ave	0.6822				8.1		30.0				
Ethanol	++++ 0.3202	++++ 0.3084	0.3784 0.3103	0.3380 0.2624	0.3301	Ave	0.3211				11.0		40.0				
Vinyl bromide	1.2510 1.2325	1.2858 1.2290	1.4459 1.4152	1.2277 1.2497	1.2076	Ave	1.2827				6.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylbutane	++++	1.9901	2.0881	1.6610	1.5999	Ave		1.6989			13.0		30.0				
	1.5962	1.5455	1.7015	1.4088													
Trichlorofluoromethane	3.4010	3.4970	3.9742	3.3853	3.3401	Ave		3.4807			6.7		30.0				
	3.3842	3.3373	3.7583	3.2490													
Acrolein	++++	0.4128	0.3655	0.2328	0.3081	Ave		0.3266			18.0		30.0				
	0.3021	0.2855	0.3935	0.3121													
Acetonitrile	++++	0.4098	0.4320	0.3296	0.3366	Ave		0.3607			12.0		30.0				
	0.3368	0.3061	0.3943	0.3403													
Acetone	++++	++++	++++	0.7210	0.8316	Ave		0.5686			38.0	*	30.0				
	0.5780	0.3424	0.3699	++++													
Isopropyl alcohol	++++	++++	1.7112	1.5277	1.4569	Ave		1.5014			7.8		30.0				
	1.4403	1.4471	1.5786	1.3482													
Pentane	++++	0.1929	0.2420	0.2107	0.2100	Ave		0.2152			7.7		30.0				
	0.2110	0.2103	0.2383	0.2065													
Ethyl ether	++++	1.2193	1.2370	0.8503	1.0780	Ave		1.0466			13.0		30.0				
	1.0219	0.9461	1.0985	0.9217													
1,1-Dichloroethene	1.2472	1.1312	1.2574	1.0484	1.0359	Ave		1.1230			7.9		30.0				
	1.0504	1.0692	1.1985	1.0684													
tert-Butyl alcohol	++++	2.1474	2.1170	1.9306	1.7618	Ave		1.8495			12.0		30.0				
	1.5527	1.6753	1.9312	1.6797													
Acrylonitrile	0.6837	0.6036	0.6491	0.4430	0.5680	Ave		0.5945			13.0		30.0				
	0.5684	0.5529	0.6783	0.6032													
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110	2.4189	2.7256	2.3179	2.2929	Ave		2.4119			6.2		30.0				
	2.3296	2.3382	2.5850	2.2877													
Methylene Chloride	++++	++++	1.3860	1.0569	1.0231	Ave		1.0701			14.0		30.0				
	1.0284	1.0127	1.0525	0.9311													
3-Chloropropene	++++	1.4141	1.4133	1.0400	1.0351	Ave		1.1131			17.0		30.0				
	1.0457	1.0202	1.0428	0.8935													
Carbon disulfide	3.8327	3.8048	4.3304	3.6252	3.5747	Ave		3.7629			7.3		30.0				
	3.6559	3.6157	4.0136	3.4128													
trans-1,2-Dichloroethene	1.5956	1.4088	1.5141	1.2666	1.2555	Ave		1.3526			9.5		30.0				
	1.2849	1.2971	1.3354	1.2156													
2-Methylpentane	3.5143	3.3896	3.6215	2.9875	2.9621	Ave		3.0866			12.0		40.0				
	2.9748	2.8931	3.0116	2.4248													
Methyl tert-butyl ether	++++	2.2440	2.3259	1.7335	2.0623	Ave		2.0415			9.8		30.0				
	2.0306	1.9367	2.1576	1.8416													
1,1-Dichloroethane	2.2983	2.2481	2.5871	1.8978	2.0982	Ave		2.1108			11.0		30.0				
	2.0618	2.0212	1.9936	1.7914													
Vinyl acetate	++++	2.0207	2.0413	1.4173	1.8240	Ave		1.8493			12.0		30.0				
	1.8387	1.7150	2.1043	1.8329													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Butanone (MEK)	++++ 0.3964	++++ 0.3598	0.4111 0.3829	0.3437 0.3472	0.4093	Ave		0.3786			7.5		30.0				
C6 Range	++++ 11.457	++++ 10.950	14.161 11.507	11.950 10.055	11.668	Ave		11.678			11.0		30.0				
Hexane	1.2499 1.0288	1.1722 0.9966	1.2816 1.0234	1.0019 0.9009	1.0232	Ave		1.0754			12.0		30.0				
cis-1,2-Dichloroethene	++++ 1.1421	1.2484 1.1159	1.4102 1.1085	1.0275 1.0343	1.1509	Ave		1.1547			11.0		30.0				
Ethyl acetate	++++ 1.6675	1.8616 1.5787	1.8823 1.7022	1.3606 1.4909	1.6483	Ave		1.6490			11.0		30.0				
Chloroform	2.7060 2.2129	2.5161 2.1695	2.8522 2.1655	2.0807 1.9884	2.2854	Ave		2.3307			13.0		30.0				
Tetrahydrofuran	++++ 0.8907	1.1007 0.8382	1.1060 0.9416	0.7993 0.8406	0.8948	Ave		0.9265			13.0		30.0				
1,1,1-Trichloroethane	2.5690 2.4044	2.5894 2.3199	2.9524 2.2395	2.2082 2.1153	2.4654	Ave		2.4293			10.0		30.0				
1,2-Dichloroethane	0.3524 0.2986	0.3242 0.3013	0.3469 0.2973	0.2680 0.3047	0.2994	Ave		0.3103			8.5		30.0				
1-Butanol	++++ 0.0758	++++ 0.0850	++++ 0.1016	0.0902 0.0993	0.0728	Ave		0.0874			14.0		30.0				
Benzene	++++ 0.6491	0.7894 0.6742	0.7885 0.6678	0.5956 0.6732	0.6526	Ave		0.6863			9.9		30.0				
Cyclohexane	0.1355 0.1326	0.1403 0.1351	0.1546 0.1320	0.1280 0.1295	0.1311	Ave		0.1354			6.0		30.0				
Carbon tetrachloride	0.5567 0.5334	0.5322 0.5682	0.6406 0.5720	0.5209 0.6134	0.5648	Ave		0.5669			6.9		30.0				
2,3-Dimethylpentane	0.1746 0.1531	0.1672 0.1548	0.1903 0.1594	0.1424 0.1580	0.1574	Ave		0.1619			8.6		40.0				
Thiophene	++++ 0.4079	0.4449 0.4137	0.5038 0.4130	0.3692 0.4248	0.4135	Ave		0.4238			9.1		40.0				
2,2,4-Trimethylpentane	++++ 1.1013	1.2866 1.1120	1.4233 1.1598	1.0650 1.0917	1.1349	Ave		1.1718			10.0		30.0				
Heptane	++++ 0.2302	0.2523 0.2339	0.2876 0.2500	0.2069 0.2495	0.2312	Ave		0.2427			9.7		30.0				
1,2-Dichloropropane	0.2713 0.2248	0.2476 0.2244	0.2446 0.2162	0.1894 0.2424	0.2270	Ave		0.2320			9.9		30.0				
Trichloroethene	0.3681 0.3070	0.3361 0.3103	0.3882 0.3376	0.2860 0.3565	0.3066	Ave		0.3329			10.0		30.0				
Dibromomethane	0.3519 0.2871	0.3135 0.2904	0.3463 0.3019	0.2521 0.3144	0.2898	Ave		0.3053			10.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville

Job No.: 140-1073-1

Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40

Calibration End Date: 03/11/2014 19:57

Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Bromodichloromethane	0.5415 0.4610	0.4794 0.4772	0.5203 0.5090	0.3917 0.5236	0.4559	Ave	0.4844				9.4		30.0				
1,4-Dioxane	0.0864 0.0761	0.0789 0.0837	0.0861 0.0932	0.0734 0.0944	0.0759	Ave	0.0831				9.1		30.0				
Methyl methacrylate	++++ 0.2033	0.2108 0.2121	0.2172 0.2415	0.1522 0.2315	0.1963	Ave	0.2081				13.0		30.0				
Methylcyclohexane	0.5084 0.4369	0.4885 0.4352	0.5437 0.4447	0.4036 0.4462	0.4506	Ave	0.4620				9.4		40.0				
4-Methyl-2-pentanone (MIBK)	0.4768 0.4049	0.4050 0.4208	0.3722 0.5038	0.3199 0.4786	0.3915	Ave	0.4193				14.0		30.0				
cis-1,3-Dichloropropene	0.3912 0.3148	0.3360 0.3226	0.3321 0.3286	0.2584 0.3651	0.3130	Ave	0.3291				11.0		30.0				
trans-1,3-Dichloropropene	++++ 0.3239	0.3387 0.3309	0.3498 0.3384	0.2652 0.3768	0.3281	Ave	0.3315				9.5		30.0				
Toluene	++++ 0.7167	0.8202 0.7308	0.8244 0.7195	0.6019 0.7841	0.7388	Ave	0.7420				9.6		30.0				
Toluene Range	++++ 1.7355	1.8850 1.7414	2.3214 1.7164	1.4393 1.8607	1.7681	Ave	1.8085				14.0		30.0				
1,1,2-Trichloroethane	++++ 0.2300	0.2512 0.2324	0.2564 0.2257	0.1979 0.2522	0.2355	Ave	0.2352				8.1		30.0				
2-Methylthiophene	++++ 0.6589	0.7303 0.6637	0.7306 0.6296	0.5576 0.7008	0.6632	Ave	0.6668				8.5		40.0				
3-Methylthiophene	++++ 0.6573	0.7094 0.6674	0.7385 0.6367	0.5566 0.7128	0.6732	Ave	0.6690				8.4		40.0				
2-Hexanone	0.2893 0.2225	0.2360 0.2440	0.2090 0.2907	0.1958 0.2785	0.2215	Ave	0.2430				15.0		30.0				
C8 Range	++++ 2.5227	++++ 2.5151	4.1853 2.4822	2.7311 2.3967	2.7836	Ave	2.8024				22.0		30.0				
Octane	++++ 0.2554	0.2894 0.2698	0.3001 0.2764	0.2400 0.2819	0.2649	Ave	0.2723				7.0		30.0				
Dibromochloromethane	0.5683 0.4999	0.4537 0.5452	0.4884 0.5757	0.4110 0.6423	0.4872	Ave	0.5191				14.0		30.0				
1,2-Dibromoethane (EDB)	++++ 0.3904	0.4062 0.3997	0.4255 0.4060	0.3250 0.4746	0.3969	Ave	0.4030				10.0		30.0				
Tetrachloroethene	0.4307 0.3126	0.3606 0.3248	0.3860 0.3276	0.2918 0.3623	0.3149	Ave	0.3457				13.0		30.0				
Chlorobenzene	0.7600 0.5843	0.6366 0.6134	0.6670 0.6220	0.5083 0.7170	0.5962	Ave	0.6339				12.0		30.0				
2,3-Dimethylheptane	++++ 0.7774	1.0016 0.7981	0.9243 0.7543	0.8155 0.6301	0.8355	Ave	0.8171				14.0		40.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Ethylbenzene	++++ 0.7809	0.8590 0.7918	0.9295 0.8662	0.6485 0.8867	0.7945	Ave	0.8196				11.0		30.0				
2-Ethylthiophene	++++ 0.6211	0.6509 0.6348	0.7104 0.6760	0.5063 0.7092	0.6300	Ave	0.6423				10.0		40.0				
m-Xylene & p-Xylene	0.8724 0.6048	0.6478 0.6174	0.7195 0.6892	0.5053 0.6848	0.6113	Ave	0.6614				15.0		30.0				
Nonane	0.5849 0.4962	0.5269 0.5198	0.5003 0.5325	0.4350 0.5270	0.5092	Ave	0.5146				7.7		30.0				
Bromoform	0.3869 0.3941	0.3029 0.4477	0.3351 0.5176	0.2786 0.6525	0.3753	Ave	0.4101				28.0		30.0				
Styrene	0.4586 0.4545	0.3795 0.4737	0.4178 0.5566	0.3161 0.5951	0.4359	Ave	0.4542				19.0		30.0				
o-Xylene	++++ 0.6220	0.6989 0.6334	0.7758 0.7157	0.5518 0.7183	0.6477	Ave	0.6705				10.0		30.0				
1,1,2,2-Tetrachloroethane	0.6366 0.5114	0.4928 0.5428	0.5223 0.6379	0.4404 0.6334	0.5127	Ave	0.5478				13.0		30.0				
1,2,3-Trichloropropane	0.1442 0.1219	0.1181 0.1290	0.1305 0.1531	0.1029 0.1606	0.1220	Ave	0.1314				14.0		30.0				
Isopropylbenzene	++++ 0.8840	0.9896 0.9244	1.0486 1.0733	0.7621 1.0613	0.8995	Ave	0.9553				11.0		30.0				
Propylbenzene	0.2681 0.2341	0.2110 0.2500	0.2443 0.3134	0.1854 0.3341	0.2269	Ave	0.2519				19.0		30.0				
2-Chlorotoluene	0.3095 0.2380	0.2477 0.2491	0.2685 0.2880	0.2030 0.3199	0.2426	Ave	0.2629				14.0		30.0				
4-Ethyltoluene	++++ 0.8311	0.8416 0.8990	0.8896 1.0959	0.6810 1.0745	0.8145	Ave	0.8909				15.0		30.0				
1,3,5-Trimethylbenzene	0.4938 0.3981	0.4061 0.4350	0.4303 0.5543	0.3429 0.5787	0.3917	Ave	0.4479				18.0		30.0				
Alpha Methyl Styrene	++++ 0.3207	++++ 0.3696	0.2496 0.4870	0.2079 ++++	0.2910	Ave	0.3209				31.0	*	30.0				
Decane	0.6374 0.5292	0.5113 0.5642	0.5207 0.6272	0.4260 0.5826	0.5375	Ave	0.5485				12.0		30.0				
tert-Butylbenzene	0.9408 0.7767	0.8087 0.8608	0.8237 1.1089	0.6758 1.1051	0.7724	Ave	0.8748				17.0		30.0				
1,2,4-Trimethylbenzene	0.8860 0.7036	0.6832 0.7761	0.7207 0.9851	0.5785 0.9682	0.6901	Ave	0.7768				18.0		30.0				
sec-Butylbenzene	1.2822 1.0386	1.0421 1.1381	1.0626 1.4231	0.8765 1.3609	1.0370	Ave	1.1401				16.0		30.0				
1,3-Dichlorobenzene	0.6165 0.4316	0.4587 0.4814	0.4606 0.6381	0.3506 0.7371	0.4206	Ave	0.5106				24.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Benzyl chloride	++++ 0.5194	0.5259 0.5969	0.5293 0.7868	0.4001 0.8036	0.4796	Ave	0.5802				25.0		30.0				
1,4-Dichlorobenzene	0.5812 0.3946	0.4226 0.4405	0.4275 0.6043	0.3295 0.6990	0.3777	Ave	0.4752				26.0		30.0				
4-Isopropyltoluene	1.0099 0.8431	0.8059 0.9293	0.8117 1.1712	0.6811 1.1487	0.8256	Ave	0.9141				18.0		30.0				
1,2,3-Trimethylbenzene	++++ 0.5818	0.6038 0.6245	0.6126 0.7801	0.5165 0.7656	0.5791	Ave	0.6330				15.0		40.0				
Butylcyclohexane	0.8668 0.6633	0.7527 0.6998	0.6856 0.7692	0.5955 0.7699	0.6994	Ave	0.7225				11.0		40.0				
1,2-Dichlorobenzene	0.5645 0.4286	0.4298 0.4797	0.4422 0.6537	0.3508 0.7309	0.4147	Ave	0.4994				25.0		30.0				
Indane	++++ 0.6382	0.6553 0.7031	0.6522 0.9291	0.5340 0.9433	0.6228	Ave	0.7098				21.0		40.0				
Butylbenzene	0.9460 0.7809	0.7473 0.8777	0.7741 1.1149	0.6052 1.0417	0.7458	Ave	0.8482				19.0		30.0				
Indene	0.7207 0.5892	0.5164 0.6812	0.5351 0.9374	0.4341 ++++	0.5474	Ave	0.6202				25.0		40.0				
Undecane	++++ 0.5055	0.5604 0.5578	0.5305 0.6932	0.4489 0.6332	0.4907	Ave	0.5525				14.0		30.0				
1,2-Dimethyl-4-Ethylbenzene	0.9638 0.7782	0.7650 0.8711	0.7308 1.1243	0.6104 1.1208	0.7493	Ave	0.8571				21.0		40.0				
1,2,4,5-Tetramethylbenzene	++++ 0.8069	0.8466 0.9215	0.7831 1.2072	0.6737 ++++	0.7884	Ave	0.8611				20.0		40.0				
1,2,3,5-Tetramethylbenzene	0.6914 0.4976	0.5735 0.5663	0.5216 0.7214	0.4291 ++++	0.4957	Ave	0.5621				18.0		40.0				
1,2,3,4-Tetramethylbenzene	++++ 0.6318	0.7601 0.7192	0.6390 0.9406	0.5613 ++++	0.6223	Ave	0.6963				18.0		40.0				
Dodecane	++++ 0.5222	0.6219 0.5549	0.5826 0.6951	0.4960 0.5857	0.5184	Ave	0.5721				11.0		30.0				
1,2,4-Trichlorobenzene	++++ 0.1978	0.2393 0.2353	0.1875 0.3503	0.1589 ++++	0.1860	Ave	0.2222				28.0		30.0				
Naphthalene	++++ 0.5440	0.6054 0.6234	0.5204 0.8528	0.4570 0.9116	0.5206	Ave	0.6294				26.0		30.0				
Benzo(b)thiophene	++++ 0.3584	0.4411 0.4226	0.3316 0.5886	0.2931 0.6439	0.3327	Ave	0.4265				30.0		40.0				
Hexachlorobutadiene	++++ 0.3710	0.4779 0.4186	0.4112 0.5814	0.3414 0.6501	0.3803	Ave	0.4540				24.0		30.0				
1,2,3-Trichlorobenzene	++++ 0.2455	0.2949 0.2721	0.2520 0.3767	0.2213 0.3886	0.2456	Ave	0.2871				22.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylnaphthalene	+++++	0.0753	0.0599	0.0578	0.0666	Ave		0.0669			31.0		40.0				
	0.0679	0.0753	0.1029	0.0298													
1-Methylnaphthalene	+++++	0.0816	0.0695	0.0679	0.0735	Ave		0.0690			31.0		40.0				
	0.0730	0.0750	0.0927	0.0189													
4-Bromofluorobenzene (Surr)	0.6600	0.6934	0.7134	0.6897	0.7189	Ave		0.7075			3.1		30.0				
	0.7176	0.7283	0.7225	0.7235													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Chlorodifluoromethane	CBM	Ave	++++ 65895	3504 127336	7250 267278	13846 505684	32729	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	++++ 203864	++++ 380299	22123 770175	44922 1458925	107699	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14707 677907	29444 1288306	63957 2653935	134818 4882515	334566	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	1810 75510	3561 142083	7684 285173	15228 494916	37407	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	CBM	Ave	11183 515628	20686 1010496	47157 2110535	93560 3992171	251641	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	++++ 339724	++++ 590590	35881 1285979	64164 2205919	194092	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl chloride	CBM	Ave	5530 254791	10730 481131	24848 984783	51116 1770210	125449	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3743 175277	7941 332507	17011 680934	35435 1224939	87385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	8874 348021	17319 651614	35698 1303426	71879 2267439	173714	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	5840 250854	11324 483336	24480 1011303	50293 1918491	123346	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2644 113435	4956 220811	11208 455037	23148 852776	56692	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	++++ 281128	++++ 536616	27045 988374	58098 1841235	144711	++++ 10.0	++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	4538 216421	9051 427699	20665 901463	42200 1753642	105872	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	++++ 280290	14009 537867	29844 1083786	57096 1976924	140258	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Trichlorofluoromethane	CBM	Ave	12337 594264	24616 1161422	56802 2393900	116368 4559353	292818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	++++ 53042	2906 99357	5224 250642	8002 437980	27013	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 59141	2885 106520	6174 251140	11328 477609	29505	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 101503	++++ 119169	++++ 235590	24784 ++++	72907	++++ 2.00	++++ 4.00	++++ 8.00	0.400 ++++	1.00
Isopropyl alcohol	CBM	Ave	++++ 252925	++++ 503623	24457 1005537	52512 1891993	127722	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Pentane	CBM	Ave	++++ 37045	1358 73196	3459 151771	7244 289822	18413	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	++++ 179455	8583 329259	17680 699710	29228 1293462	94508	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	++++ 184446	7963 372110	17971 763429	36039 1499326	90818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	++++ 272663	15116 583041	30258 1230118	66363 2357157	154458	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2480 99812	4249 192415	9278 432058	15228 846522	49792	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	8746 409082	17027 813723	38956 1646524	79676 3210350	201012	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 180581	++++ 352418	19809 670417	36329 1306630	89695	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	++++ 183622	9954 355060	20200 664240	35748 1253863	90749	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	13903 641989	26783 1258326	61892 2556516	124614 4789123	313388	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	5788 225627	9917 451426	21641 850575	43537 1705804	110071	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	12748 522389	23860 1006835	51760 1918287	102693 3402713	259682	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	++++ 356577	15796 673998	33243 1374295	59586 2584260	180801	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	8337 362051	15825 703411	36976 1269839	65235 2513809	183945	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	++++ 322885	14224 596834	29176 1340341	48718 2572051	159904	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	++++ 69610	++++ 125222	5876 243895	11813 487204	35887	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
C6 Range	CBM	Ave	++++ 2011864	++++ 3810714	202396 7329744	410756 14110311	1022928	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Hexane	CBM	Ave	4534 180662	8251 346825	18317 651848	34438 1264226	89704	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	++++ 200551	8788 388357	20156 706076	35319 1451411	100896	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	++++ 292814	13104 549427	26903 1084225	46769 2092150	144504	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9816 388598	17711 755016	40765 1379316	71523 2790275	200359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	++++ 156408	7748 291715	15807 599765	27476 1179659	78446	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	9319 422225	18227 807351	42198 1426505	75903 2968435	216140	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	5688 248475	11010 473508	23652 840072	43695 1727411	125298	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	++++ 63073	++++ 133536	++++ 287181	++++ 562689	30453	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	++++ 540059	26808 1059675	53761 1886757	97096 3816101	273136	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2187 110363	4766 212371	10543 372992	20873 734107	54874	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	8987 443845	18074 893077	43678 1616119	84912 3477511	236385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2819 127368	5679 243353	12974 450381	23214 895905	65875	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	++++ 339429	15107 650293	34350 1166754	60186 2407949	173039	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 916367	43691 1747868	97042 3277019	173617 6188593	474988	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	++++ 191563	8567 367648	19608 706282	33732 1414497	96771	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	4380 187039	8407 352739	16678 610860	30869 1374081	95014	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5942 255418	11412 487687	26470 953846	46631 2020928	128335	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5681 238917	10647 456395	23612 853084	41095 1782109	121268	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	8741 383587	16281 749991	35477 1438067	63861 2968189	190788	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1394 63279	2681 131505	5872 263409	11964 535040	31775	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	++++ 169117	7159 333332	14809 682355	24813 1312475	82170	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methylcyclohexane	DFB	Ave	8207 363492	16589 683968	37072 1256319	65787 2529310	188580	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	7697 336876	13754 661355	25379 1423315	52154 2713031	163854	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6314 261947	11409 507092	22640 928432	42126 2069482	131004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	++++ 234824	9630 446194	20295 879585	35040 1963516	117538	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	++++ 519669	23320 985546	47832 1869974	79532 4086312	264651	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	CBZ	Ave	++++ 1258419	53595 2348373	134690 4461089	190190 9697293	633377	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 166783	7143 313466	14877 586633	26153 1314579	84373	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	++++ 477759	20765 895031	42390 1636492	73689 3652163	237579	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	++++ 476584	20169 900038	42847 1654764	73553 3714685	241139	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	3616 161365	6711 329061	12124 755508	25873 1451418	79350	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	CBZ	Ave	++++ 1829147	++++ 3391784	242838 6451566	360891 12490633	997149	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	++++ 185219	8228 363887	17415 718344	31719 1469379	94899	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	7103 362439	12900 735197	28336 1496245	54305 3347546	174527	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	++++ 283094	11550 539062	24689 1055365	42940 2473337	142171	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5383 226667	10252 437989	22395 851426	38555 1888055	112818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	9499 423684	18101 827157	38702 1616541	67168 3736744	213586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	++++ 563663	28479 1076318	53631 1960561	107761 3283977	299289	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	++++ 566249	24423 1067867	53929 2251254	85699 4621160	284603	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	++++ 450374	18507 856076	41218 1757131	66902 3695934	225682	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	21806 877038	36838 1665289	83497 3582524	133531 7138010	437938	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	7310 359753	14980 701033	29027 1384118	57485 2746405	182421	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Bromoform	CBZ	Ave	4835 285787	8612 603733	19445 1345387	36819 3400531	134430	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	5732 329540	10790 638753	24244 1446724	41766 3101488	156161	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	++++ 451038	19871 854151	45016 1860295	72917 3743538	232024	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	7957 370844	14012 731970	30304 1658051	58192 3301073	183648	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	1802 88416	3358 174026	7573 398010	13592 836915	43710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	++++ 640978	28138 1246662	60842 2789508	100706 5530866	322210	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	3351 169743	6000 337130	14173 814479	24502 1741082	81294	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	3868 172536	7042 335960	15581 748591	26819 1667404	86903	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	++++ 602615	23930 1212360	51618 2848420	89983 5599605	291767	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	6172 288648	11546 586616	24966 1440763	45307 3015712	140307	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	++++ 232501	++++ 498439	14480 1265706	27470 ++++	104233	++++ 2.00	++++ 4.00	0.160 8.00	0.400 ++++	1.00
Decane	CBZ	Ave	7967 383736	14539 760833	30213 1630218	56293 3036195	192549	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	11758 563181	22994 1160846	47790 2882125	89301 5759135	276681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	11073 510168	19426 1046672	41818 2560408	76446 5045591	247215	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	16025 753094	29629 1534847	61653 3698797	115821 7092519	371473	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	7705 312974	13041 649208	26725 1658482	46329 3841334	150681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	++++ 376583	14954 804987	30711 2044904	52876 4188073	171797	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	7264 286084	12015 593980	24804 1570678	43546 3642996	135286	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	12622 611347	22915 1253285	47097 3044134	90008 5986441	295742	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	++++ 421832	17168 842178	35544 2027503	68250 3990183	207460	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	10834 480940	21401 943677	39782 1999366	78686 4012634	250533	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	CBZ	Ave	7055 310746	12220 646950	25655 1699055	46356 3809042	148540	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indane	CBZ	Ave	++++ 462728	18631 948230	37844 2414878	70569 4915942	223109	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	11823 566214	21249 1183694	44913 2897714	79971 5428724	267179	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	9007 427230	14683 918630	31046 2436478	57358 ++++	196085	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Undecane	CBZ	Ave	++++ 366563	15935 752219	30780 1801735	59319 3299916	175793	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	12046 564256	21750 1174726	42402 2922288	80666 5841120	268427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	++++ 585097	24071 1242657	45438 3137565	89023 ++++	282429	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8641 360803	16306 763734	30265 1875036	56702 ++++	177582	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	++++ 458134	21613 969881	37074 2444837	74166 ++++	222908	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Dodecane	CBZ	Ave	++++ 378646	17682 748275	33803 1806559	65545 3052464	185701	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 143447	6805 317385	10877 910586	21000 ++++	66621	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Naphthalene	CBZ	Ave	++++ 394479	17213 840765	30193 2216472	60395 4750981	186491	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzo (b) thiophene	CBZ	Ave	++++ 259843	12541 569891	19240 1529823	38727 3355982	119182	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	++++ 268985	13588 564546	23861 1511092	45108 3388138	136244	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 178007	8385 366981	14621 979161	29244 2025463	87992	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	++++ 307709	13381 634411	21725 1671920	47754 969606	149184	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	++++ 331073	14503 631891	25220 1506542	56061 616839	164584	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	824893 1040623	985783 982151	1034797 938909	911404 942607	1030162	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D
 Lims ID: IC L1 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Mar-2014 12:40:30 ALS Bottle#: 8 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL1,,1,1,,ICAL 0.04
 Misc. Info.: J031114I,TO15,,140-0000516-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:46:11 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:46:11

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	362747	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1614195	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1249833	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	90	824893	3.73	
6 Chlorodifluoromethane	67	3.965	3.960	0.005	90	2070	0.0553	
7 Propene	41	3.975	3.973	0.002	94	6874	0.0618	
8 Dichlorodifluoromethane	85	4.035	4.029	0.006	90	14707	0.0409	
9 Chloromethane	52	4.239	4.230	0.009	40	1810	0.0443	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	84	11183	0.0412	
11 Acetaldehyde	44	4.400	4.398	0.002	99	23295	0.6509	
12 Vinyl chloride	62	4.422	4.419	0.003	30	5530	0.0411	
14 Butadiene	54	4.519	4.517	0.002	56	3743	0.0401	
13 Butane	43	4.519	4.517	0.002	83	8874	0.0464	
15 Bromomethane	94	4.868	4.871	-0.003	83	5840	0.0427	
16 Chloroethane	64	5.024	5.027	-0.003	67	2644	0.0427	
17 Ethanol	31	5.127	5.122	0.005	92	10598	0.3639	
18 Vinyl bromide	106	5.358	5.357	0.001	66	4538	0.0390	
19 2-Methylbutane	43	5.406	5.411	-0.005	73	8284	0.0538	
20 Trichlorofluoromethane	101	5.643	5.647	-0.004	75	12337	0.0391	
21 Acrolein	56	5.654	5.650	0.004	2	1845	0.0623	
22 Acetonitrile	40	5.718	5.720	-0.002	72	365	0.0112	
23 Acetone	58	5.783	5.776	0.007	81	13132	0.2547	
24 Isopropyl alcohol	45	5.869	5.858	0.011	45	8126	0.0597	
25 Pentane	72	5.880	5.884	-0.004	84	563	0.0288	
26 Ethyl ether	31	6.073	6.059	0.014	82	6445	0.0679	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	54	4524	0.0444	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	68	8253	0.0492	
29 Acrylonitrile	53	6.498	6.498	0.0	35	2480	0.0460	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	77	8746	0.0400	
31 Methylene Chloride	84	6.757	6.759	-0.002	87	6749	0.0695	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	67	6354	0.0629	
33 Carbon disulfide	76	6.940	6.942	-0.002	91	13903	0.0407	
34 trans-1,2-Dichloroethene	96	7.601	7.609	-0.008	64	5788	0.0472	
35 2-Methylpentane	43	7.633	7.631	0.002	88	12748	0.0455	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	58	9876	0.0533	
37 1,1-Dichloroethane	63	8.037	8.041	-0.004	29	8337	0.0436	
38 Vinyl acetate	43	8.145	8.141	0.004	82	8474	0.0505	
39 2-Butanone (MEK)	72	8.607	8.601	0.006	84	2486	0.0724	
40 Hexane	56	8.645	8.642	0.003	81	4534	0.0465	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	52	5401	0.0516	
42 Ethyl acetate	43	9.237	9.229	0.008	82	8452	0.0565	
43 Chloroform	83	9.398	9.403	-0.005	14	9816	0.0464	
44 Tetrahydrofuran	42	9.839	9.816	0.023	86	4727	0.0563	
45 1,1,1-Trichloroethane	97	10.447	10.450	-0.003	62	9319	0.0423	
46 1,2-Dichloroethane	62	10.549	10.547	0.002	46	5688	0.0454	
47 n-Butanol	31	10.974	10.958	0.016	70	3817	0.1082	
48 Benzene	78	11.033	11.033	0.0	68	14955	0.0540	
49 Cyclohexane	69	11.039	11.040	-0.001	65	2187	0.0400	
50 Carbon tetrachloride	117	11.060	11.059	0.001	85	8987	0.0393	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	77	2819	0.0431	
52 Thiophene	84	11.292	11.297	-0.005	47	8045	0.0470	
53 Isooctane	57	11.765	11.771	-0.006	91	23809	0.0503	
54 n-Heptane	71	12.131	12.130	0.001	80	4763	0.0486	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	55	4380	0.0468	
56 Trichloroethene	130	12.254	12.252	0.002	64	5942	0.0442	
57 Dibromomethane	93	12.330	12.332	-0.002	78	5681	0.0461	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	76	8741	0.0447	
58 1,4-Dioxane	88	12.497	12.483	0.014	40	1394	0.0416	
60 Methyl methacrylate	41	12.550	12.548	0.002	38	4643	0.0553	
61 Methylcyclohexane	83	13.013	13.013	0.0	80	8207	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.382	0.008	81	7697	0.0455	
63 cis-1,3-Dichloropropene	75	13.443	13.448	-0.005	57	6314	0.0475	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	59	5825	0.0562	
65 Toluene	91	14.261	14.262	-0.001	71	13203	0.0569	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	41	3627	0.0494	
67 2-Methylthiophene	97	14.412	14.413	-0.001	66	11278	0.0541	
68 3-Methylthiophene	97	14.611	14.612	-0.001	67	11032	0.0528	
69 2-Hexanone	58	14.702	14.694	0.008	77	3616	0.0476	
70 n-Octane	85	14.928	14.928	0.0	82	4390	0.0516	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	53	7103	0.0438	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	58	6293	0.0500	
73 Tetrachloroethene	129	15.391	15.393	-0.002	77	5383	0.0498	
75 Chlorobenzene	112	16.251	16.256	-0.005	75	9499	0.0480	
74 2,3-Dimethylheptane	43	16.262	16.260	0.002	91	14337	0.0562	
76 Ethylbenzene	91	16.536	16.536	0.0	73	14130	0.0552	
77 2-Ethylthiophene	97	16.633	16.638	-0.005	30	10632	0.0530	
78 m-Xylene & p-Xylene	91	16.698	16.696	0.002	92	21806	0.1055	
79 n-Nonane	57	17.096	17.098	-0.002	81	7310	0.0455	
81 Bromoform	173	17.150	17.149	0.001	52	4835	0.0377	
80 Styrene	104	17.155	17.157	-0.002	57	5732	0.0404	
82 o-Xylene	91	17.220	17.220	0.0	75	12031	0.0574	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	50	7957	0.0465	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	64	1802	0.0439	
85 Isopropylbenzene	105	17.795	17.793	0.002	80	15689	0.0526	
86 N-Propylbenzene	120	18.312	18.310	0.002	84	3351	0.0426	
87 2-Chlorotoluene	126	18.360	18.357	0.003	63	3868	0.0471	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	79	14155	0.0509	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	80	6172	0.0441	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	51	4051	0.0404	
91 n-Decane	57	18.791	18.793	-0.003	58	7967	0.0465	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	74	11758	0.0430	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.003	58	11073	0.0456	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	87	16025	0.0450	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	64	7705	0.0483	
96 Benzyl chloride	91	19.291	19.288	0.003	77	9484	0.0523	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	73	7264	0.0489	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	58	12622	0.0442	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	64	10198	0.0516	
100 Butylcyclohexane	83	19.458	19.460	-0.002	82	10834	0.0480	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	82	11897	0.0536	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	62	7055	0.0452	
103 n-Butylbenzene	91	19.775	19.777	-0.002	83	11823	0.0446	
104 Indene	116	19.780	19.781	-0.001	71	9007	0.0465	
105 Undecane	57	20.071	20.068	0.003	79	8831	0.0512	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.138	-0.003	67	12046	0.0450	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	80	14008	0.0521	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	69	8641	0.0492	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	72	10802	0.0496	
110 Dodecane	57	21.147	21.148	-0.001	72	10350	0.0579	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	39	4076	0.0587	
112 Naphthalene	128	21.529	21.527	0.002	87	10827	0.0551	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	65	9115	0.0684	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	66	8308	0.0586	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	55	5282	0.0589	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	79	9998	0.4781	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	83	10034	0.4652	
139 Isopropyl ether	45	8.806	8.794	0.012	85	11786	NR	
142 Tert-butyl ethyl ether	59	9.500	9.487	0.013	66	10168	NR	
140 Tert-amyl methyl ether	73	11.496	11.482	0.014	50	9463	NR	
A 118 C6 Range	1	8.639	8.596 - 8.682		0	71508	0.0675	
A 122 Toluene Range	1	14.261	14.231 - 14.291		0	31251	0.0553	
A 123 C8 Range	1	14.928	14.896 - 14.960		0	84643	0.0967	
S 124 Xylenes, Total	100				0		0.1629	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L1

Lab Sample ID:

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

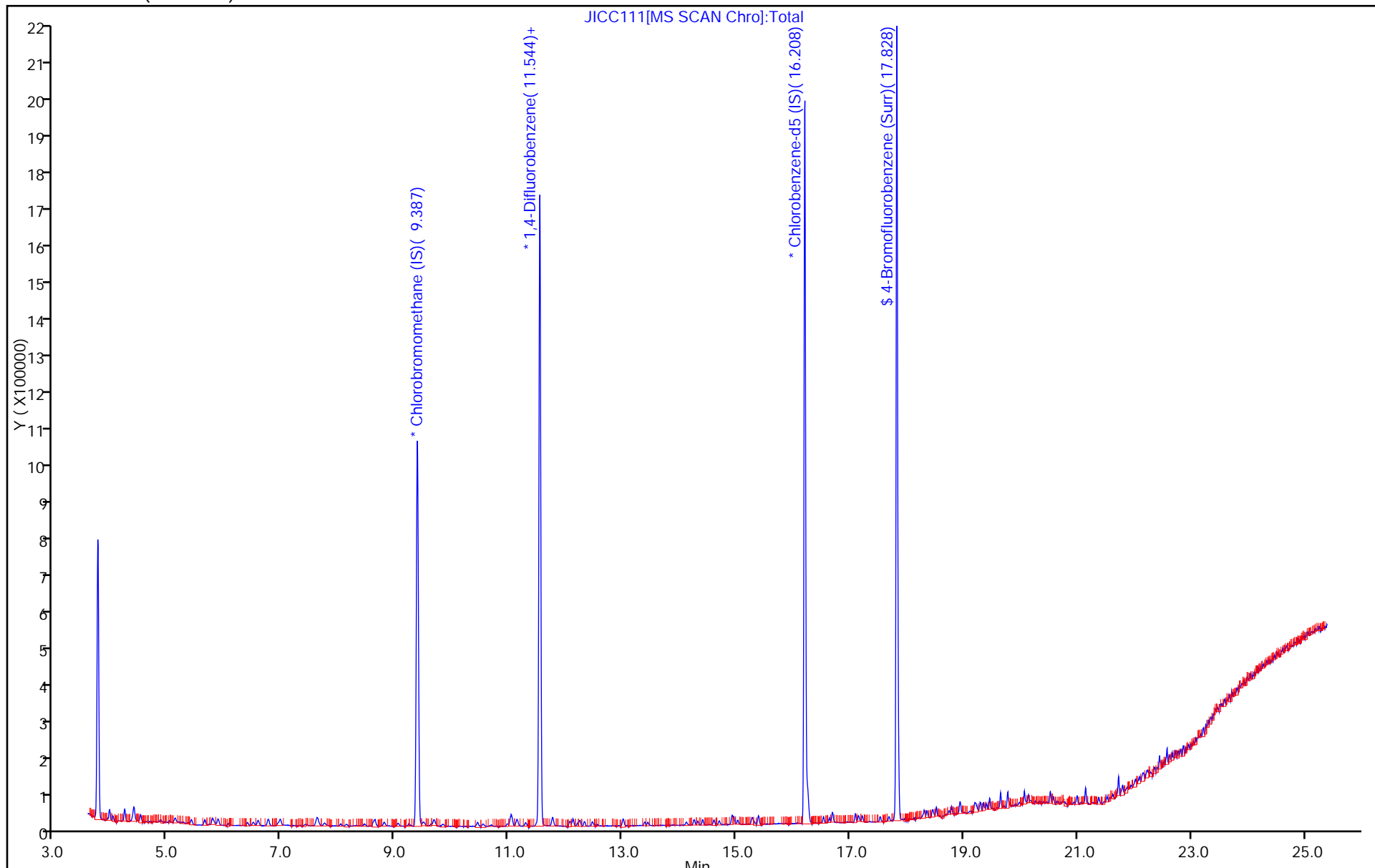
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

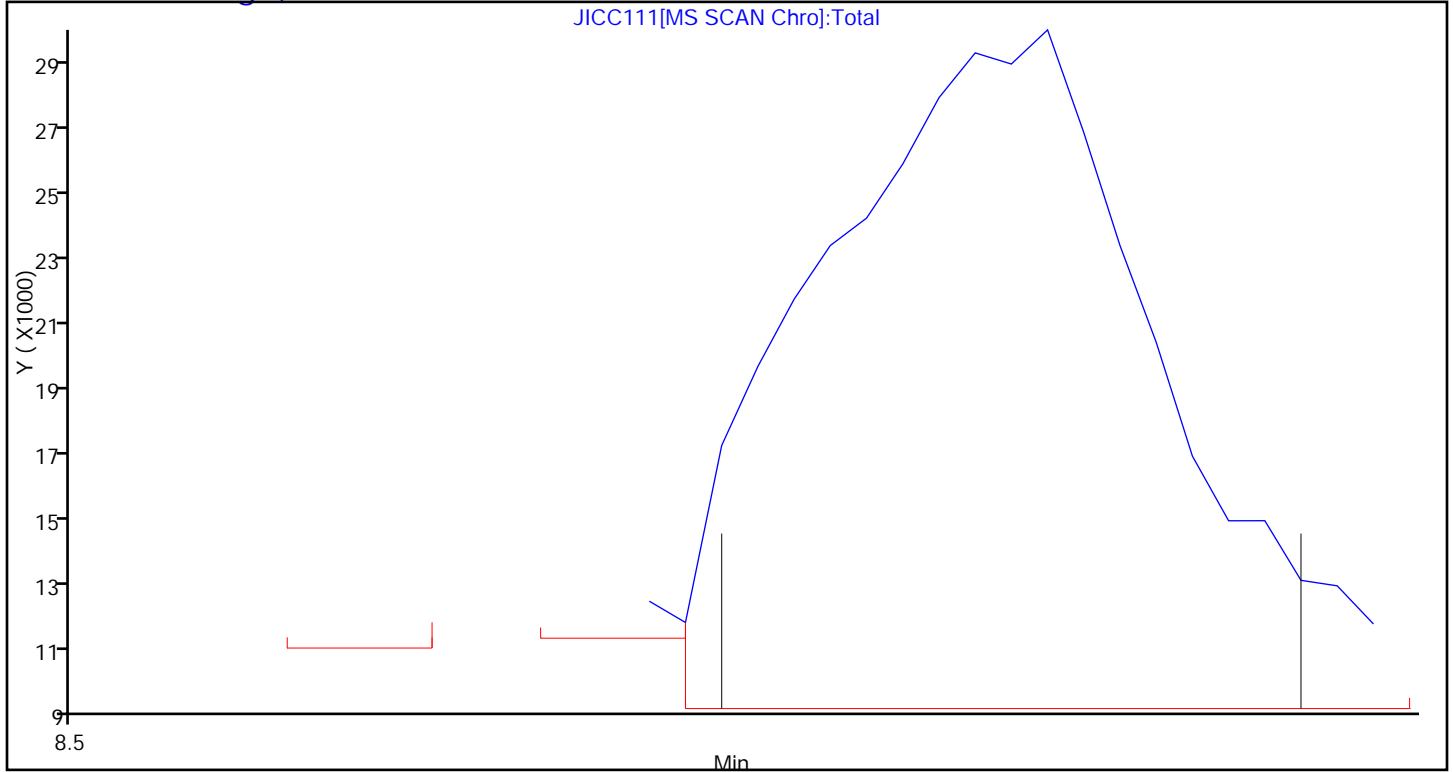
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30 Instrument ID: MJ

Lims ID: IC L1 Lab Sample ID:

Client ID:

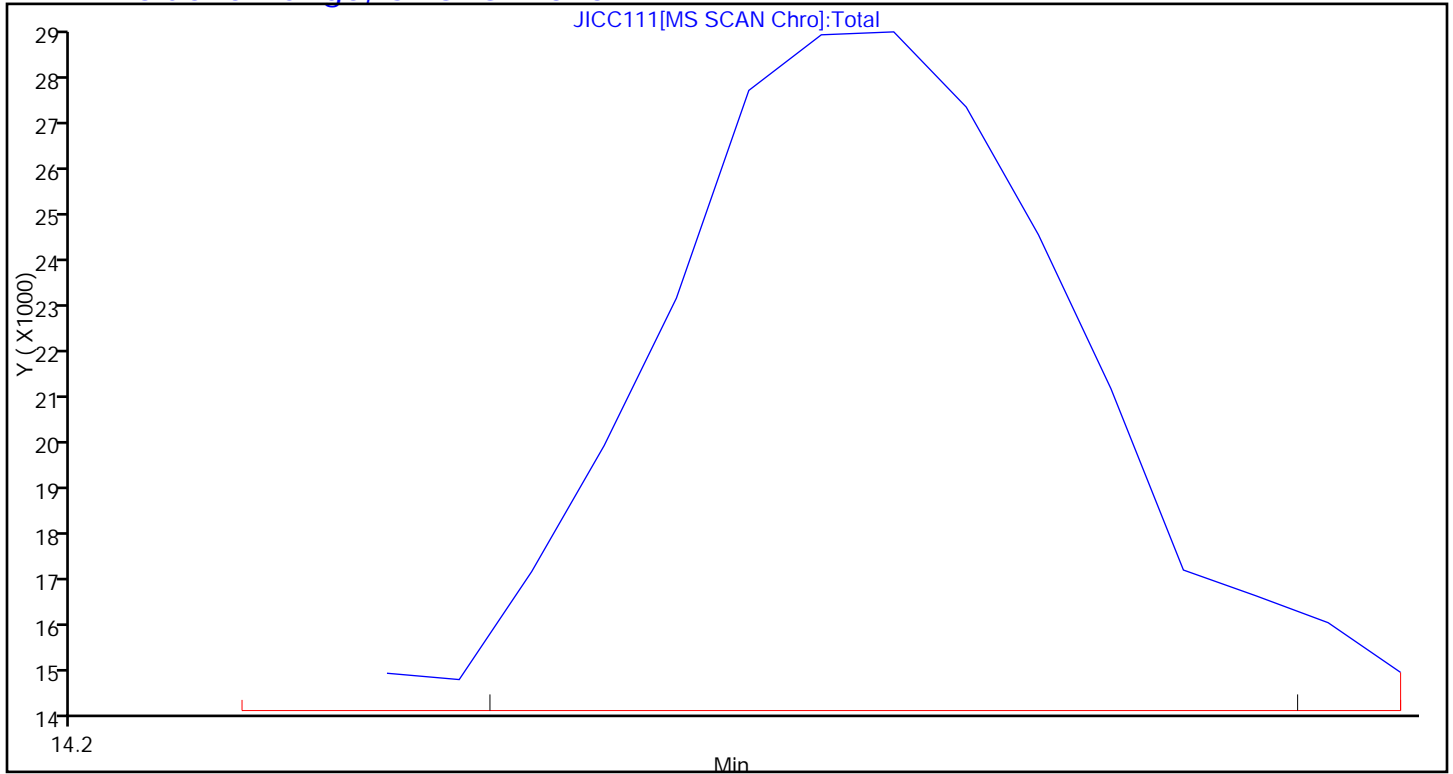
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 2

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

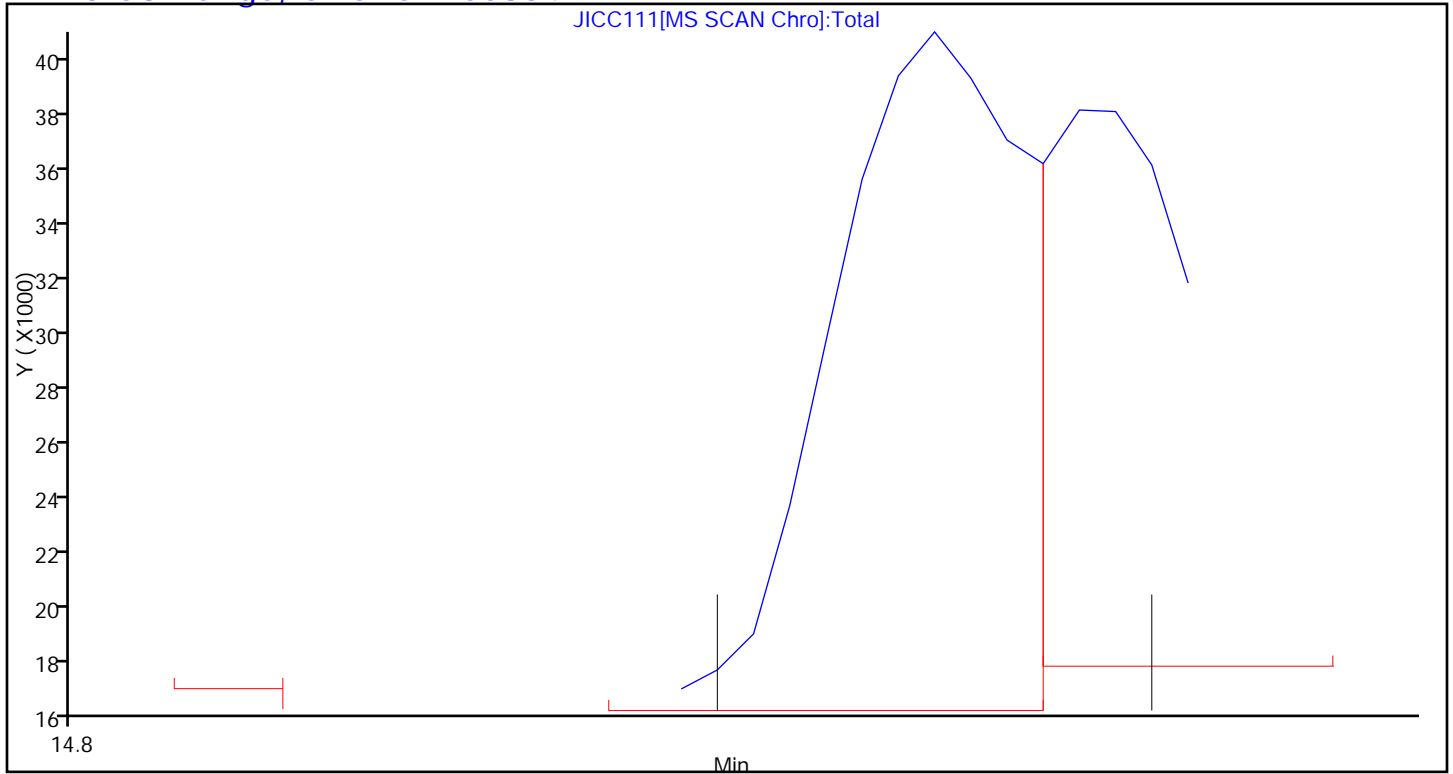
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D
 Lims ID: IC L2 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Mar-2014 13:35:30 ALS Bottle#: 8 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL2,,1,2,,ICAL 0.08
 Misc. Info.: J031114I,TO15,,140-0000516-003
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:57

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	351959	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1697921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1421637	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.825	-0.003	90	985783	3.92	
6 Chlorodifluoromethane	67	3.965	3.960	0.004	90	3504	0.0965	
7 Propene	41	3.975	3.973	0.002	98	12138	0.1125	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	95	29444	0.0845	
9 Chloromethane	52	4.228	4.230	-0.002	90	3561	0.0899	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	88	20686	0.0786	
11 Acetaldehyde	44	4.400	4.398	0.002	99	45343	1.31	
12 Vinyl chloride	62	4.416	4.419	-0.003	67	10730	0.0822	
14 Butadiene	54	4.519	4.517	0.002	58	7941	0.0876	
13 Butane	43	4.519	4.517	0.002	87	17319	0.0933	
15 Bromomethane	94	4.868	4.871	-0.003	88	11324	0.0853	
16 Chloroethane	64	5.030	5.027	0.003	66	4956	0.0826	
17 Ethanol	31	5.126	5.122	0.004	94	18689	0.6614	
18 Vinyl bromide	106	5.358	5.357	0.001	72	9051	0.0802	
19 2-Methylbutane	43	5.412	5.411	0.001	85	14009	0.0937	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	87	24616	0.0804	
21 Acrolein	56	5.648	5.650	-0.002	1	2906	0.1011	
22 Acetonitrile	40	5.729	5.720	0.009	91	2885	0.0909	
23 Acetone	58	5.788	5.776	0.012	83	21741	0.4346	
24 Isopropyl alcohol	45	5.863	5.858	0.005	57	14698	0.1113	
25 Pentane	72	5.885	5.884	0.001	84	1358	0.0717	
26 Ethyl ether	31	6.068	6.059	0.009	82	8583	0.0932	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	81	7963	0.0806	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	75	15116	0.0929	
29 Acrylonitrile	53	6.498	6.498	0.0	40	4249	0.0812	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	83	17027	0.0802	
31 Methylene Chloride	84	6.756	6.759	-0.003	91	10876	0.1155	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	80	9954	0.1016	
33 Carbon disulfide	76	6.939	6.942	-0.003	98	26783	0.0809	
34 trans-1,2-Dichloroethene	96	7.606	7.609	-0.003	85	9917	0.0833	
35 2-Methylpentane	43	7.628	7.631	-0.003	86	23860	0.0879	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	84	15796	0.0879	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	65	15825	0.0852	
38 Vinyl acetate	43	8.144	8.141	0.003	99	14224	0.0874	
39 2-Butanone (MEK)	72	8.612	8.601	0.011	91	4259	0.1278	
40 Hexane	56	8.645	8.642	0.003	85	8251	0.0872	
41 cis-1,2-Dichloroethene	96	9.048	9.052	-0.004	67	8788	0.0865	
42 Ethyl acetate	43	9.236	9.229	0.007	83	13104	0.0903	
43 Chloroform	83	9.398	9.403	-0.005	15	17711	0.0864	
44 Tetrahydrofuran	42	9.833	9.816	0.017	89	7748	0.0950	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	78	18227	0.0853	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	63	11010	0.0836	
47 n-Butanol	31	10.974	10.958	0.016	72	4071	0.1097	
48 Benzene	78	11.033	11.033	0.0	92	26808	0.0920	
49 Cyclohexane	69	11.038	11.040	-0.002	83	4766	0.0829	
50 Carbon tetrachloride	117	11.055	11.059	-0.004	87	18074	0.0751	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	82	5679	0.0826	
52 Thiophene	84	11.291	11.297	-0.006	67	15107	0.0840	
53 Isooctane	57	11.770	11.771	-0.001	91	43691	0.0878	
54 n-Heptane	71	12.131	12.130	0.001	80	8567	0.0832	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	69	8407	0.0854	
56 Trichloroethene	130	12.249	12.252	-0.003	73	11412	0.0807	
57 Dibromomethane	93	12.330	12.332	-0.002	84	10647	0.0822	
59 Dichlorobromomethane	83	12.469	12.472	-0.003	79	16281	0.0792	
58 1,4-Dioxane	88	12.496	12.483	0.013	55	2681	0.0760	
60 Methyl methacrylate	41	12.550	12.548	0.002	49	7159	0.0810	
61 Methylcyclohexane	83	13.013	13.013	0.0	88	16589	0.0846	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	83	13754	0.0773	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	68	11409	0.0817	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	67	9630	0.0817	
65 Toluene	91	14.261	14.262	-0.001	79	23320	0.0884	
66 1,1,2-Trichloroethane	83	14.325	14.328	-0.003	76	7143	0.0855	
67 2-Methylthiophene	97	14.411	14.413	-0.002	76	20765	0.0876	
68 3-Methylthiophene	97	14.610	14.612	-0.002	72	20169	0.0848	
69 2-Hexanone	58	14.691	14.694	-0.003	77	6711	0.0777	
70 n-Octane	85	14.928	14.928	0.0	90	8228	0.0850	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	71	12900	0.0699	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	75	11550	0.0806	
73 Tetrachloroethene	129	15.390	15.393	-0.003	82	10252	0.0834	
75 Chlorobenzene	112	16.257	16.256	0.001	30	18101	0.0803	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	93	28479	0.0981	
76 Ethylbenzene	91	16.536	16.536	0.0	83	24423	0.0838	
77 2-Ethylthiophene	97	16.639	16.638	0.001	51	18507	0.0811	
78 m-Xylene & p-Xylene	91	16.692	16.696	-0.004	95	36838	0.1567	
79 n-Nonane	57	17.096	17.098	-0.002	89	14980	0.0819	
81 Bromoform	173	17.150	17.149	0.001	64	8612	0.0591	
80 Styrene	104	17.155	17.157	-0.002	78	10790	0.0668	
82 o-Xylene	91	17.220	17.220	0.0	84	19871	0.0834	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	77	14012	0.0720	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	73	3358	0.0719	
85 Isopropylbenzene	105	17.790	17.793	-0.003	83	28138	0.0829	
86 N-Propylbenzene	120	18.312	18.310	0.002	90	6000	0.0670	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	77	7042	0.0754	
88 4-Ethyltoluene	105	18.451	18.454	-0.003	85	23930	0.0756	
89 1,3,5-Trimethylbenzene	120	18.521	18.524	-0.003	84	11546	0.0725	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	64	6489	0.0569	
91 n-Decane	57	18.790	18.793	-0.003	77	14539	0.0746	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	81	22994	0.0740	
93 1,2,4-Trimethylbenzene	105	18.946	18.949	-0.003	77	19426	0.0704	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	89	29629	0.0731	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	83	13041	0.0719	
96 Benzyl chloride	91	19.285	19.288	-0.003	82	14954	0.0725	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	83	12015	0.0711	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	71	22915	0.0705	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	82	17168	0.0763	
100 Butylcyclohexane	83	19.457	19.460	-0.003	86	21401	0.0833	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	81	18631	0.0739	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	71	12220	0.0688	
103 n-Butylbenzene	91	19.775	19.777	-0.002	90	21249	0.0705	
104 Indene	116	19.780	19.781	-0.001	81	14683	0.0666	
105 Undecane	57	20.065	20.068	-0.003	86	15935	0.0811	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	74	21750	0.0714	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.003	87	24071	0.0787	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	81	16306	0.0816	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	84	21613	0.0873	
110 Dodecane	57	21.147	21.148	-0.001	75	17682	0.0870	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	57	6805	0.0862	
112 Naphthalene	128	21.528	21.527	0.001	92	17213	0.0769	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	76	12541	0.0827	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	77	13588	0.0842	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	70	8385	0.0822	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	82	13381	0.5625	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	86	14503	0.5912	
139 Isopropyl ether	45	8.801	8.794	0.007	90	21937	NR	
142 Tert-butyl ethyl ether	59	9.495	9.487	0.008	79	18395	NR	
140 Tert-amyl methyl ether	73	11.490	11.482	0.008	68	17787	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	106564	0.1037	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	53595	0.0834	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	128220	0.1287	
S 124 Xylenes, Total	100				0		0.2401	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L2

Lab Sample ID:

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

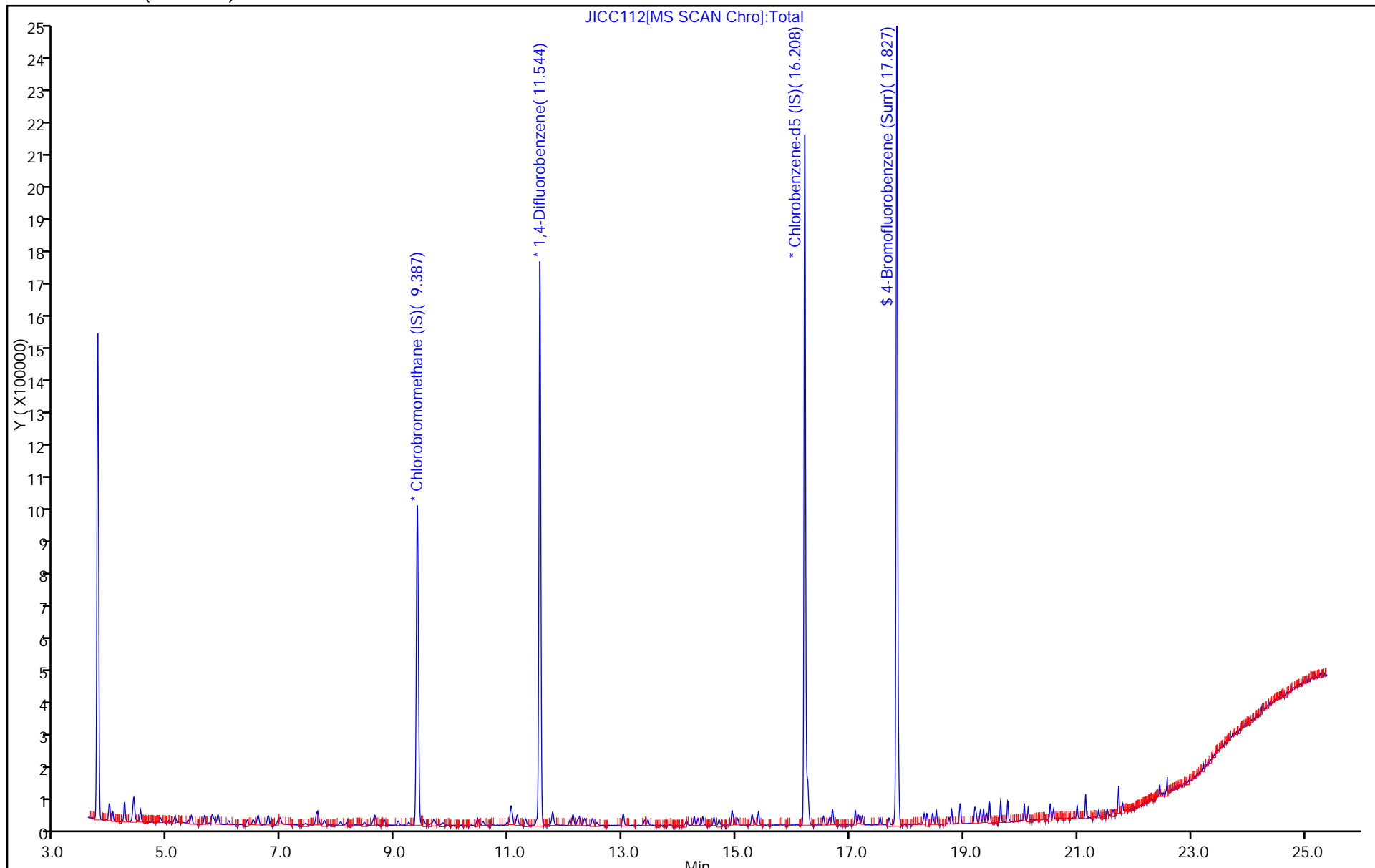
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

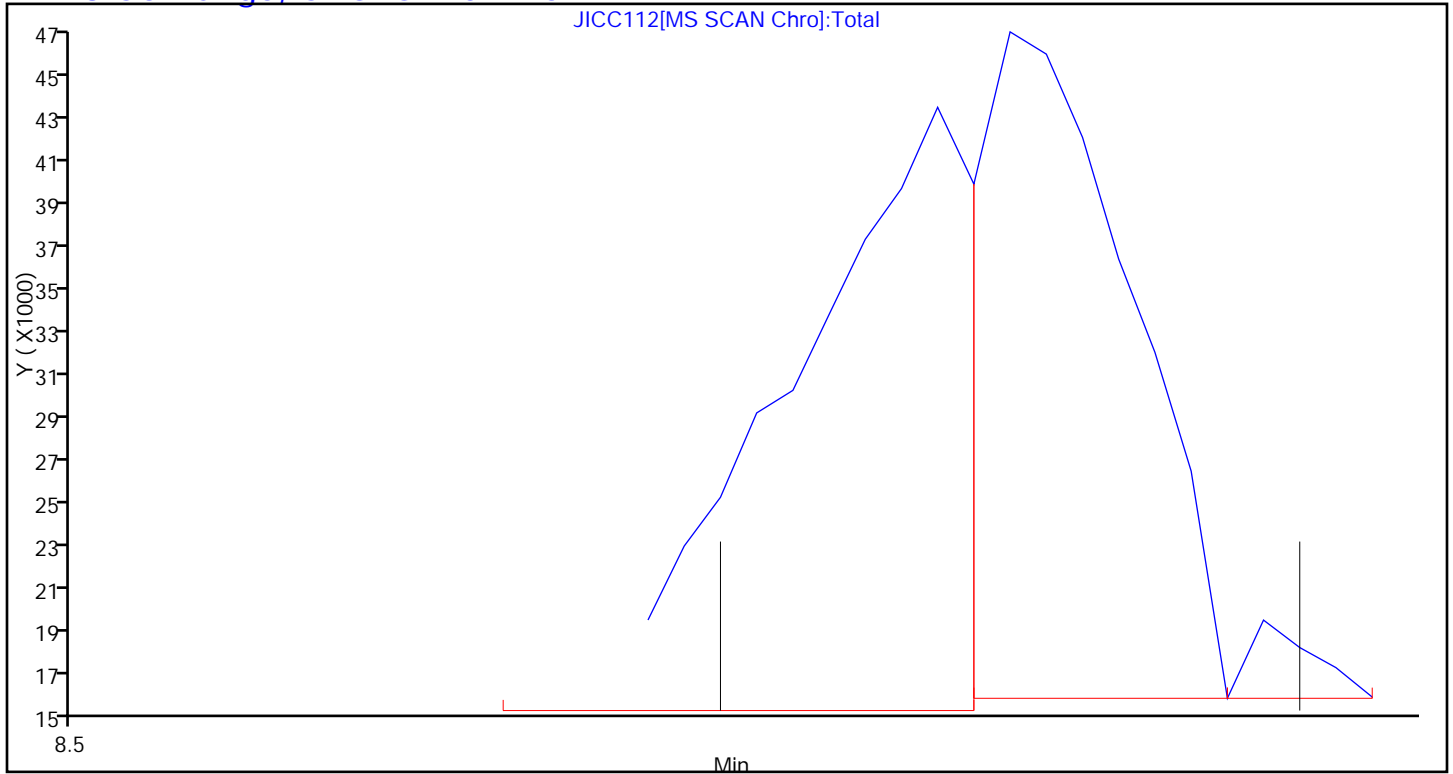
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

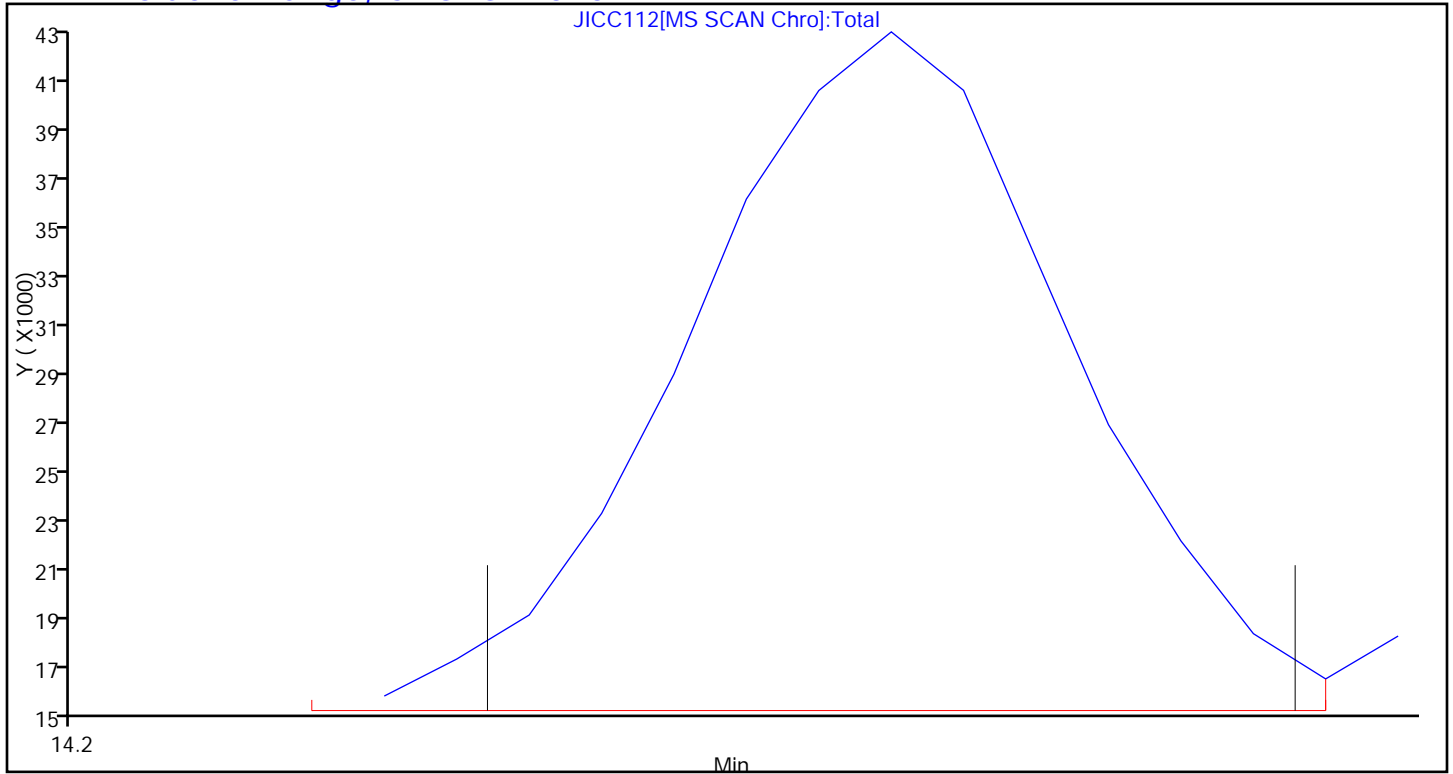
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30 Instrument ID: MJ

Lims ID: IC L2 Lab Sample ID:

Client ID:

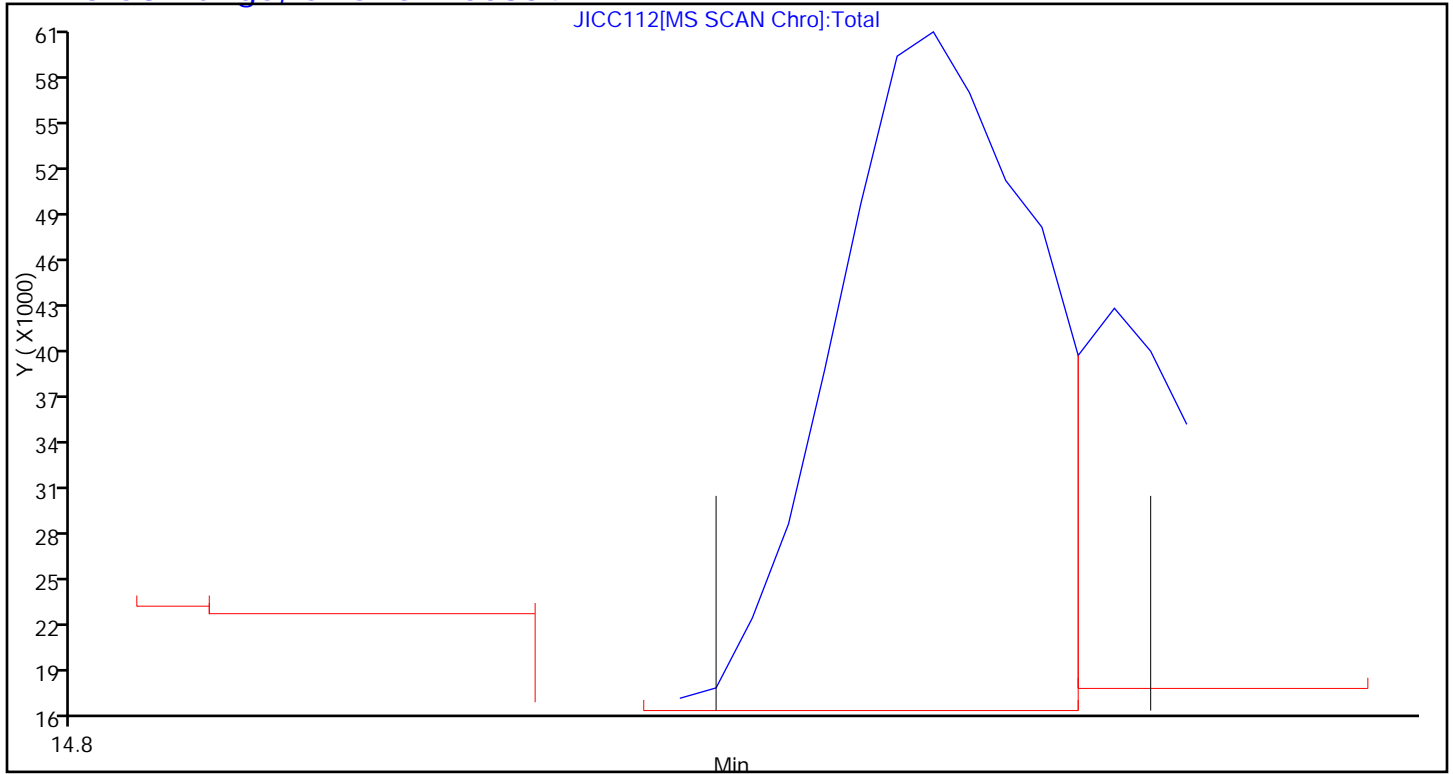
Operator ID: 7126 ALS Bottle#: 8 Worklist Smp#: 3

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D
 Lims ID: IC L3 Lab Sample ID: Client 140-535/4-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Mar-2014 14:29:30 ALS Bottle#: 9 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL3,,1,3,,ICAL 0.16
 Misc. Info.: J031114I,TO15,,140-0000516-004
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:45 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.392	-0.004	91	357314	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	94	1704540	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.204	16.208	-0.004	87	1450555	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1034797	4.03	
6 Chlorodifluoromethane	67	3.955	3.960	-0.005	92	7250	0.1966	
7 Propene	41	3.971	3.973	-0.002	99	22123	0.2019	
8 Dichlorodifluoromethane	85	4.025	4.029	-0.004	100	63957	0.1807	
9 Chloromethane	52	4.224	4.230	-0.006	60	7684	0.1911	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.238	-0.004	90	47157	0.1765	
11 Acetaldehyde	44	4.396	4.398	-0.002	98	35881	1.02	
12 Vinyl chloride	62	4.417	4.419	-0.002	87	24848	0.1876	
14 Butadiene	54	4.514	4.517	-0.003	85	17011	0.1848	
13 Butane	43	4.514	4.517	-0.003	87	35698	0.1894	
15 Bromomethane	94	4.869	4.871	-0.002	92	24480	0.1817	
16 Chloroethane	64	5.025	5.027	-0.002	78	11208	0.1839	
17 Ethanol	31	5.117	5.122	-0.005	94	27045	0.9428	
18 Vinyl bromide	106	5.353	5.357	-0.004	93	20665	0.1804	
19 2-Methylbutane	43	5.407	5.411	-0.004	93	29844	0.1967	
20 Trichlorofluoromethane	101	5.644	5.647	-0.003	96	56802	0.1827	
21 Acrolein	56	5.655	5.650	0.005	6	5224	0.1791	
22 Acetonitrile	40	5.719	5.720	-0.001	95	6174	0.1916	
23 Acetone	58	5.778	5.776	0.002	83	15375	0.3027	
24 Isopropyl alcohol	45	5.859	5.858	0.001	69	24457	0.1824	
25 Pentane	72	5.880	5.884	-0.004	93	3459	0.1799	
26 Ethyl ether	31	6.058	6.059	-0.001	88	17680	0.1891	
27 1,1-Dichloroethene	96	6.392	6.399	-0.007	94	17971	0.1791	
28 2-Methyl-2-propanol	59	6.488	6.487	0.001	91	30258	0.1831	
29 Acrylonitrile	53	6.499	6.498	0.001	44	9278	0.1747	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	90	38956	0.1808	
31 Methylene Chloride	84	6.757	6.759	-0.002	93	19809	0.2072	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.768	6.778	-0.010	90	20200	0.2032	
33 Carbon disulfide	76	6.940	6.942	-0.002	97	61892	0.1841	
34 trans-1,2-Dichloroethene	96	7.607	7.609	-0.002	95	21641	0.1791	
35 2-Methylpentane	43	7.629	7.631	-0.002	93	51760	0.1877	
36 Methyl tert-butyl ether	73	7.742	7.738	0.004	93	33243	0.1823	
37 1,1-Dichloroethane	63	8.038	8.041	-0.003	90	36976	0.1961	
38 Vinyl acetate	43	8.140	8.141	-0.001	98	29176	0.1766	
39 2-Butanone (MEK)	72	8.608	8.601	0.007	94	5876	0.1737	
40 Hexane	56	8.635	8.642	-0.007	89	18317	0.1907	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	85	20156	0.1954	
42 Ethyl acetate	43	9.227	9.229	-0.003	94	26903	0.1826	
43 Chloroform	83	9.399	9.403	-0.004	67	40765	0.1958	
44 Tetrahydrofuran	42	9.818	9.816	0.002	89	15807	0.1910	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	90	42198	0.1945	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	86	23652	0.1789	
47 n-Butanol	31	10.964	10.958	0.006	76	8551	0.2295	
48 Benzene	78	11.029	11.033	-0.004	95	53761	0.1838	
49 Cyclohexane	69	11.034	11.040	-0.006	89	10543	0.1827	
50 Carbon tetrachloride	117	11.056	11.059	-0.003	94	43678	0.1808	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	88	12974	0.1880	
52 Thiophene	84	11.292	11.297	-0.005	92	34350	0.1902	
53 Isooctane	57	11.766	11.771	-0.005	97	97042	0.1943	
54 n-Heptane	71	12.126	12.130	-0.004	86	19608	0.1896	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	80	16678	0.1687	
56 Trichloroethene	130	12.250	12.252	-0.002	90	26470	0.1866	
57 Dibromomethane	93	12.330	12.332	-0.002	88	23612	0.1815	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	93	35477	0.1719	
58 1,4-Dioxane	88	12.492	12.483	0.009	69	5872	0.1658	
60 Methyl methacrylate	41	12.546	12.548	-0.002	74	14809	0.1670	
61 Methylcyclohexane	83	13.014	13.013	0.001	94	37072	0.1883	
62 4-Methyl-2-pentanone (MIBK)	43	13.385	13.382	0.003	88	25379	0.1420	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	85	22640	0.1614	
64 trans-1,3-Dichloropropene	75	14.122	14.126	-0.004	83	20295	0.1688	
65 Toluene	91	14.262	14.262	0.0	91	47832	0.1778	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	91	14877	0.1744	
67 2-Methylthiophene	97	14.412	14.413	-0.001	91	42390	0.1753	
68 3-Methylthiophene	97	14.611	14.612	-0.001	86	42847	0.1766	
69 2-Hexanone	58	14.697	14.694	0.003	82	12124	0.1376	
70 n-Octane	85	14.929	14.928	0.001	90	17415	0.1764	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	88	28336	0.1505	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	80	24689	0.1689	
73 Tetrachloroethene	129	15.391	15.393	-0.002	85	22395	0.1786	
75 Chlorobenzene	112	16.252	16.256	-0.004	75	38702	0.1684	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	94	53631	0.1810	
76 Ethylbenzene	91	16.532	16.536	-0.004	91	53929	0.1814	
77 2-Ethylthiophene	97	16.639	16.638	0.001	84	41218	0.1769	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	83497	0.3481	
79 n-Nonane	57	17.097	17.098	-0.001	91	29027	0.1555	
81 Bromoform	173	17.145	17.149	-0.004	80	19445	0.1308	
80 Styrene	104	17.156	17.157	-0.001	89	24244	0.1472	
82 o-Xylene	91	17.220	17.220	0.0	89	45016	0.1851	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	94	30304	0.1525	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.694	17.690	0.004	90	7573	0.1590	
85 Isopropylbenzene	105	17.791	17.793	-0.002	86	60842	0.1756	
86 N-Propylbenzene	120	18.312	18.310	0.002	96	14173	0.1551	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	89	15581	0.1634	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	94	51618	0.1598	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	89	24966	0.1537	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	78	14480	0.1244	
91 n-Decane	57	18.791	18.793	-0.002	86	30213	0.1519	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	47790	0.1507	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	86	41818	0.1484	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	95	61653	0.1491	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	94	26725	0.1443	
96 Benzyl chloride	91	19.286	19.288	-0.002	95	30711	0.1460	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	89	24804	0.1439	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	80	47097	0.1421	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	91	35544	0.1548	
100 Butylcyclohexane	83	19.458	19.460	-0.002	89	39782	0.1518	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	87	37844	0.1470	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	25655	0.1417	
103 n-Butylbenzene	91	19.776	19.777	-0.001	94	44913	0.1460	
104 Indene	116	19.781	19.781	0.0	83	31046	0.1380	
105 Undecane	57	20.066	20.068	-0.002	92	30780	0.1536	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	91	42402	0.1364	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	93	45438	0.1455	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	89	30265	0.1485	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	89	37074	0.1468	
110 Dodecane	57	21.147	21.148	-0.001	89	33803	0.1629	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	74	10877	0.1350	
112 Naphthalene	128	21.524	21.527	-0.003	95	30193	0.1323	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	80	19240	0.1244	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	79	23861	0.1449	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	85	14621	0.1404	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	89	21725	0.8950	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	92	25220	1.01	
139 Isopropyl ether	45	8.796	8.794	0.002	93	44609	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	93	40755	NR	
140 Tert-amyl methyl ether	73	11.486	11.482	0.004	74	38761	NR	
A 118 C6 Range	1	8.640	8.586 -	8.694	0	202396	0.1940	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	134690	0.2054	
A 123 C8 Range	1	14.923	14.886 -	14.961	0	242838	0.2390	
S 124 Xylenes, Total	100				0		0.5333	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

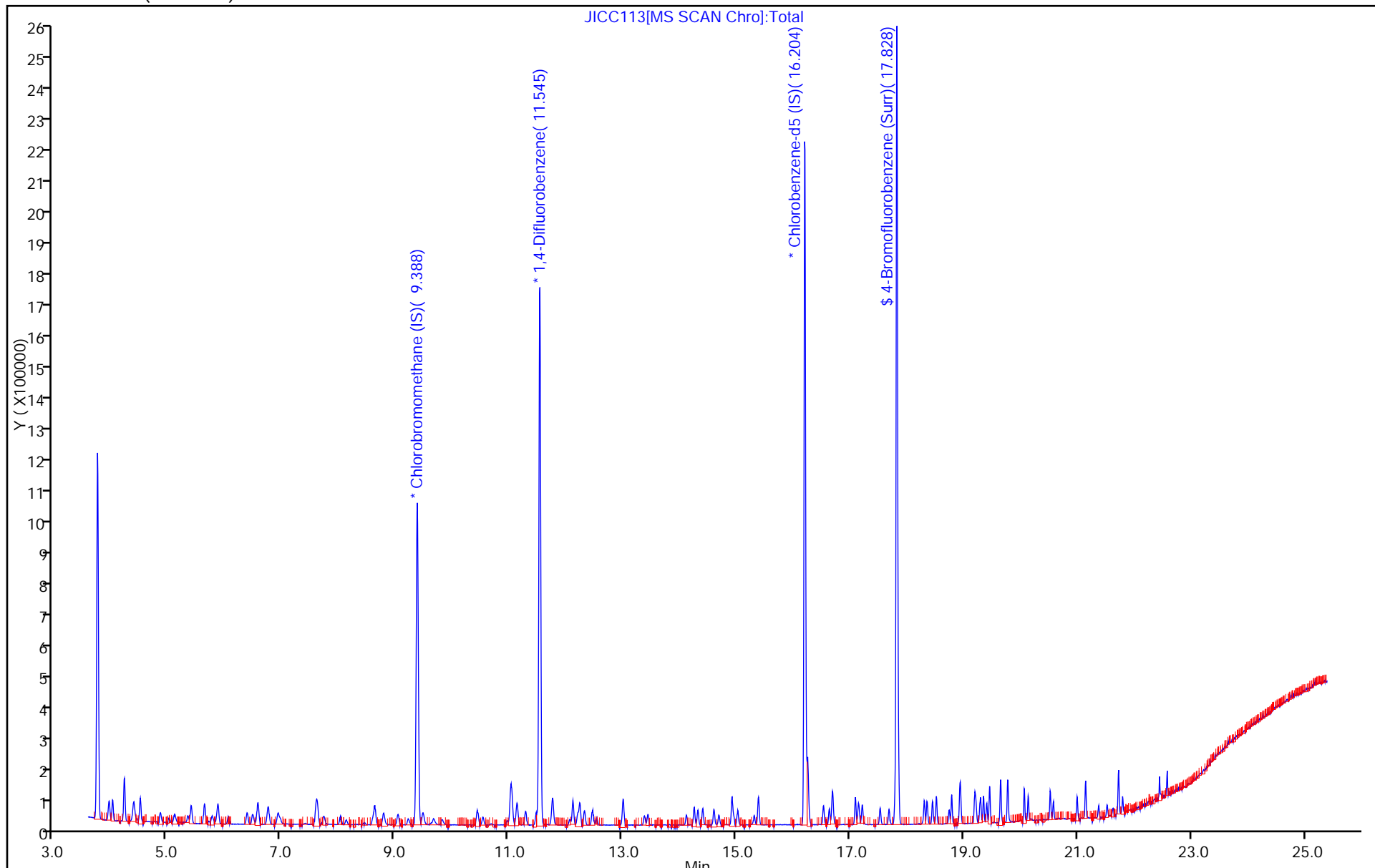
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

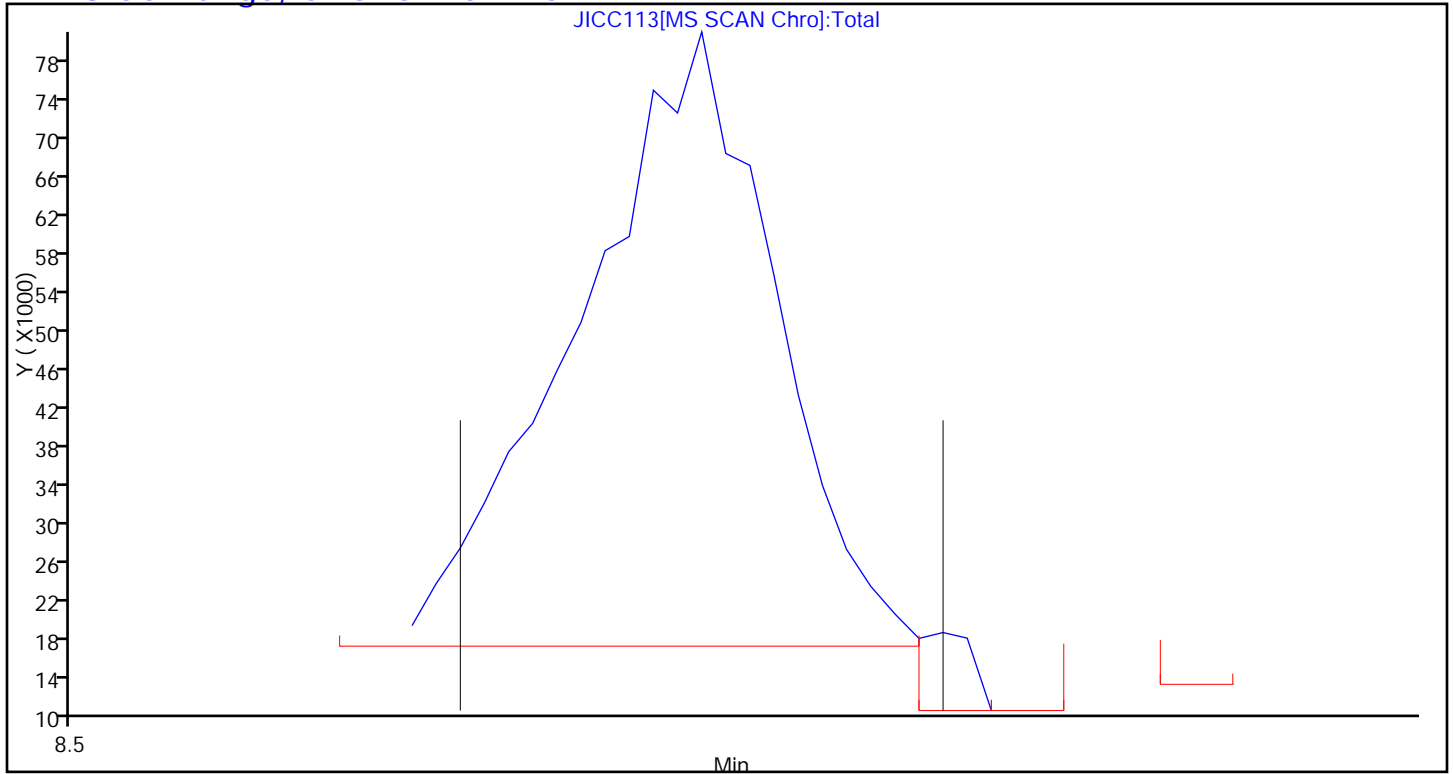
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

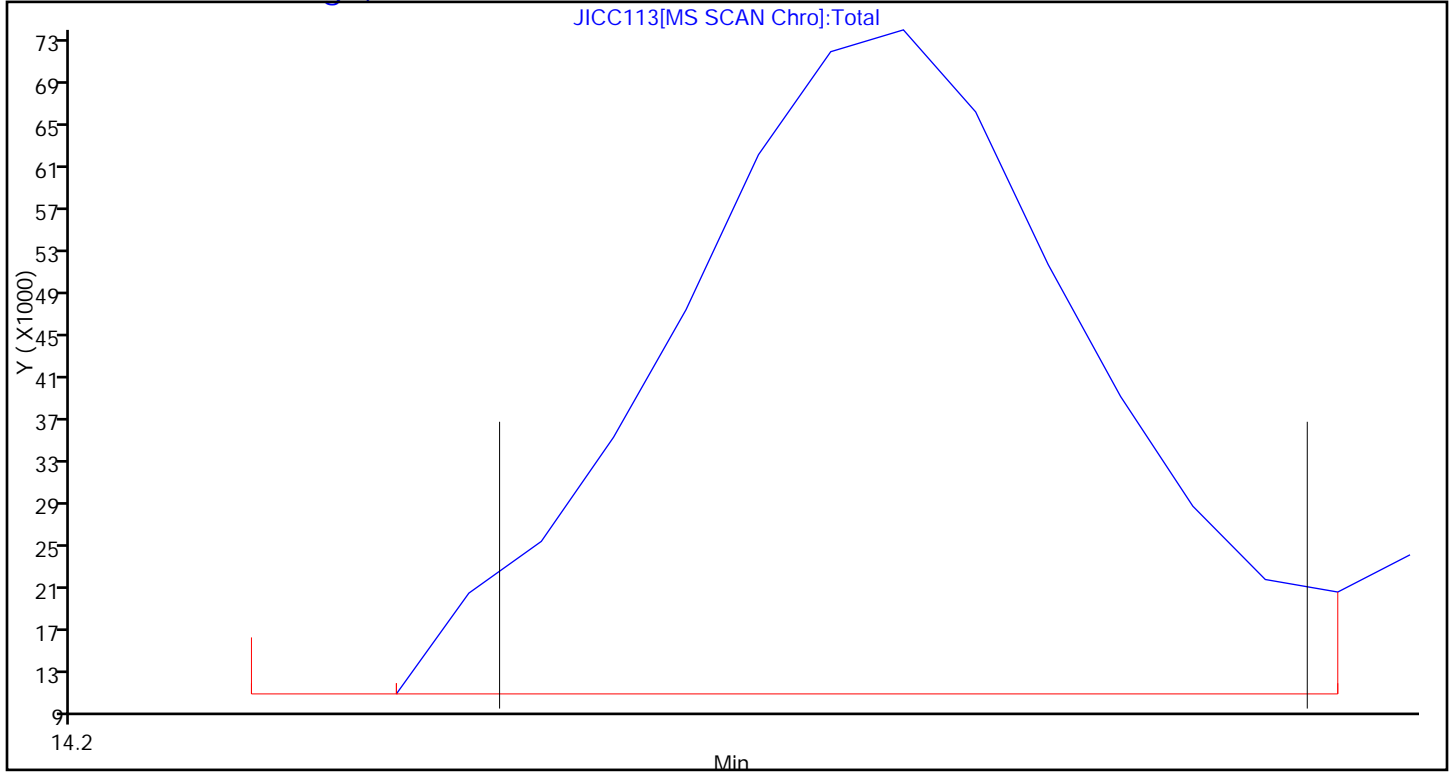
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9 Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

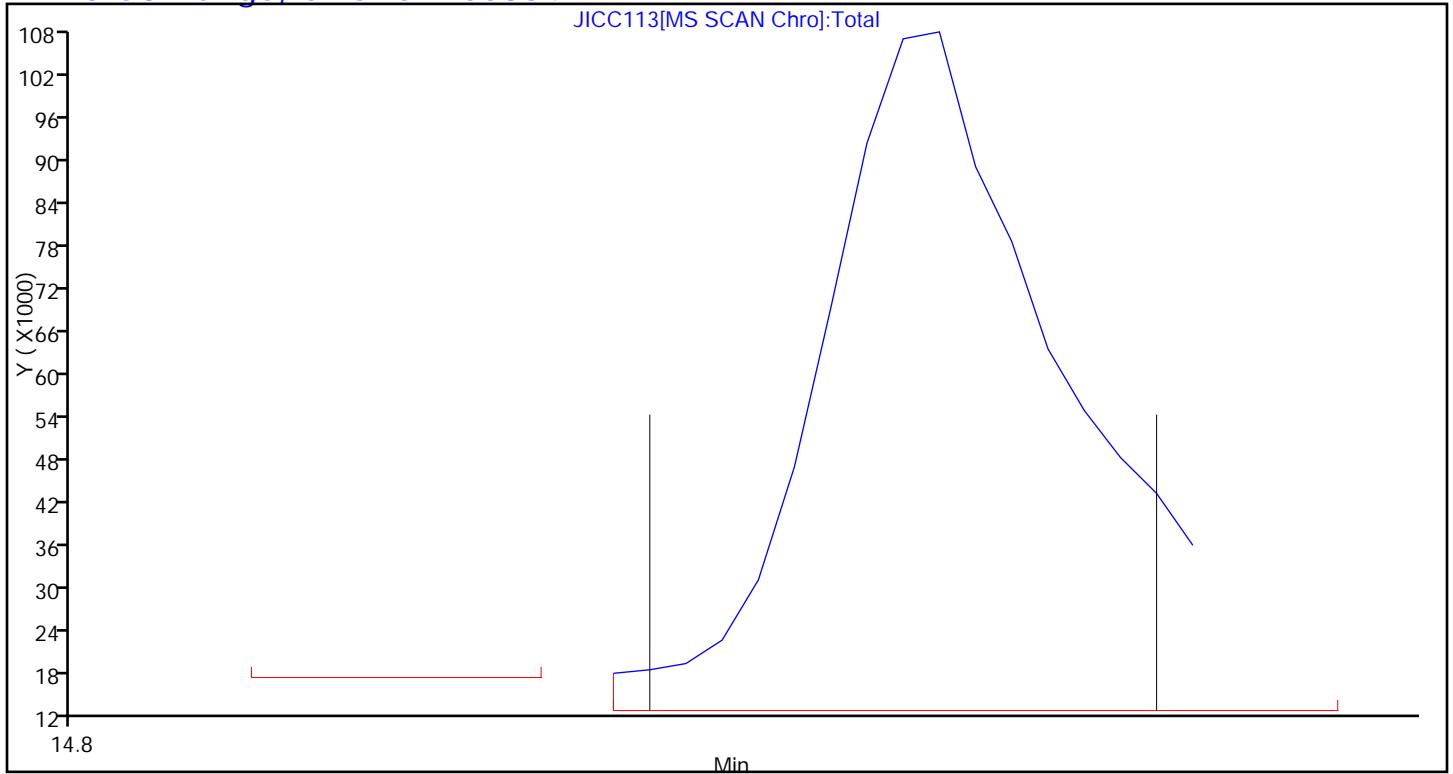
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D
 Lims ID: IC L4 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2014 15:23:30 ALS Bottle#: 10 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL4,,1,4,,ICAL 0.4
 Misc. Info.: J031114I,TO15,,140-0000516-005
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:29 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	343740	4.00	
* 2 1,4-Difluorobenzene	114	11.547	11.547	0.0	94	1630205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.205	16.208	-0.003	87	1321433	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	90	911404	3.90	
6 Chlorodifluoromethane	67	3.962	3.960	0.002	96	13846	0.3903	
7 Propene	41	3.972	3.973	-0.001	99	44922	0.4262	
8 Dichlorodifluoromethane	85	4.032	4.029	0.003	100	134818	0.3960	
9 Chloromethane	52	4.231	4.230	0.001	100	15228	0.3937	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.238	-0.002	92	93560	0.3641	
11 Acetaldehyde	44	4.397	4.398	-0.001	99	64164	1.89	
12 Vinyl chloride	62	4.419	4.419	0.0	98	51116	0.4011	
14 Butadiene	54	4.516	4.517	-0.001	65	35435	0.4002	
13 Butane	43	4.516	4.517	-0.001	86	71879	0.3963	
15 Bromomethane	94	4.871	4.871	0.0	94	50293	0.3880	
16 Chloroethane	64	5.027	5.027	0.0	98	23148	0.3949	
17 Ethanol	31	5.118	5.122	-0.004	94	58098	2.11	
18 Vinyl bromide	106	5.355	5.357	-0.002	94	42200	0.3828	
19 2-Methylbutane	43	5.414	5.411	0.003	91	57096	0.3911	
20 Trichlorofluoromethane	101	5.645	5.647	-0.002	97	116368	0.3890	
21 Acrolein	56	5.651	5.650	0.001	19	8002	0.2852	
22 Acetonitrile	40	5.721	5.720	0.001	99	11328	0.3655	
23 Acetone	58	5.775	5.776	-0.001	83	24784	0.5072	
24 Isopropyl alcohol	45	5.855	5.858	-0.003	94	52512	0.4070	
25 Pentane	72	5.882	5.884	-0.002	95	7244	0.3917	
26 Ethyl ether	31	6.065	6.059	0.006	90	29228	0.3250	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	96	36039	0.3735	
28 2-Methyl-2-propanol	59	6.485	6.487	-0.002	93	66363	0.4175	
29 Acrylonitrile	53	6.495	6.498	-0.003	93	15228	0.2981	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.587	6.586	0.001	93	79676	0.3844	
31 Methylene Chloride	84	6.759	6.759	0.0	94	36329	0.3951	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.775	6.778	-0.003	91	35748	0.3737	
33 Carbon disulfide	76	6.942	6.942	0.0	99	124614	0.3854	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	96	43537	0.3746	
35 2-Methylpentane	43	7.630	7.631	-0.001	94	102693	0.3872	
36 Methyl tert-butyl ether	73	7.738	7.738	0.0	95	59586	0.3396	
37 1,1-Dichloroethane	63	8.039	8.041	-0.002	96	65235	0.3596	
38 Vinyl acetate	43	8.142	8.141	0.001	99	48718	0.3066	
39 2-Butanone (MEK)	72	8.604	8.601	0.003	78	11813	0.3631	
40 Hexane	56	8.636	8.642	-0.006	87	34438	0.3727	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	93	35319	0.3559	
42 Ethyl acetate	43	9.228	9.229	-0.001	95	46769	0.3300	
43 Chloroform	83	9.400	9.403	-0.003	80	71523	0.3571	
44 Tetrahydrofuran	42	9.815	9.816	-0.001	93	27476	0.3451	
45 1,1,1-Trichloroethane	97	10.449	10.450	-0.001	96	75903	0.3636	
46 1,2-Dichloroethane	62	10.546	10.547	-0.001	94	43695	0.3455	
47 n-Butanol	31	10.960	10.958	0.002	94	14706	0.4127	
48 Benzene	78	11.030	11.033	-0.003	96	97096	0.3471	
49 Cyclohexane	69	11.036	11.040	-0.004	93	20873	0.3782	
50 Carbon tetrachloride	117	11.057	11.059	-0.002	94	84912	0.3675	
51 2,3-Dimethylpentane	71	11.143	11.148	-0.005	91	23214	0.3518	
52 Thiophene	84	11.294	11.297	-0.003	93	60186	0.3484	
53 Isooctane	57	11.767	11.771	-0.004	97	173617	0.3635	
54 n-Heptane	71	12.128	12.130	-0.002	91	33732	0.3410	
55 1,2-Dichloropropane	63	12.214	12.214	0.0	84	30869	0.3265	
56 Trichloroethene	130	12.246	12.252	-0.006	95	46631	0.3437	
57 Dibromomethane	93	12.332	12.332	0.0	88	41095	0.3303	
59 Dichlorobromomethane	83	12.472	12.472	0.0	97	63861	0.3235	
58 1,4-Dioxane	88	12.483	12.483	0.0	45	11964	0.3532	
60 Methyl methacrylate	41	12.547	12.548	-0.001	84	24813	0.2925	
61 Methylcyclohexane	83	13.010	13.013	-0.003	95	65787	0.3494	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.382	-0.001	93	52154	0.3052	
63 cis-1,3-Dichloropropene	75	13.446	13.448	-0.002	93	42126	0.3141	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	92	35040	0.3200	
65 Toluene	91	14.258	14.262	-0.004	93	79532	0.3244	
66 1,1,2-Trichloroethane	83	14.328	14.328	0.0	95	26153	0.3366	
67 2-Methylthiophene	97	14.409	14.413	-0.004	95	73689	0.3345	
68 3-Methylthiophene	97	14.608	14.612	-0.004	94	73553	0.3328	
69 2-Hexanone	58	14.694	14.694	0.0	88	25873	0.3222	
70 n-Octane	85	14.925	14.928	-0.003	93	31719	0.3527	
71 Chlorodibromomethane	129	15.027	15.027	0.0	94	54305	0.3167	
72 Ethylene Dibromide	107	15.318	15.317	0.001	89	42940	0.3225	
73 Tetrachloroethene	129	15.393	15.393	0.0	90	38555	0.3376	
75 Chlorobenzene	112	16.254	16.256	-0.002	66	67168	0.3208	
74 2,3-Dimethylheptane	43	16.259	16.260	-0.001	95	107761	0.3992	
76 Ethylbenzene	91	16.534	16.536	-0.002	97	85699	0.3165	
77 2-Ethylthiophene	97	16.636	16.638	-0.002	91	66902	0.3153	
78 m-Xylene & p-Xylene	91	16.695	16.696	-0.001	99	133531	0.6111	
79 n-Nonane	57	17.098	17.098	0.0	93	57485	0.3381	
81 Bromoform	173	17.147	17.149	-0.002	92	36819	0.2718	
80 Styrene	104	17.158	17.157	0.001	95	41766	0.2783	
82 o-Xylene	91	17.217	17.220	-0.003	94	72917	0.3292	
83 1,1,2,2-Tetrachloroethane	83	17.534	17.534	0.0	97	58192	0.3215	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.690	17.690	0.0	95	13592	0.3132	
85 Isopropylbenzene	105	17.792	17.793	-0.001	83	100706	0.3191	
86 N-Propylbenzene	120	18.309	18.310	-0.001	97	24502	0.2944	
87 2-Chlorotoluene	126	18.357	18.357	0.0	94	26819	0.3088	
88 4-Ethyltoluene	105	18.454	18.454	0.0	96	89983	0.3057	
89 1,3,5-Trimethylbenzene	120	18.524	18.524	0.0	91	45307	0.3062	
90 Alpha Methyl Styrene	118	18.744	18.745	-0.001	81	27470	0.2591	
91 n-Decane	57	18.793	18.793	0.0	87	56293	0.3107	
92 tert-Butylbenzene	119	18.933	18.937	-0.004	83	89301	0.3090	
93 1,2,4-Trimethylbenzene	105	18.949	18.949	0.0	90	76446	0.2979	
94 sec-Butylbenzene	105	19.196	19.196	0.0	96	115821	0.3075	
95 1,3-Dichlorobenzene	146	19.218	19.217	0.001	96	46329	0.2747	
96 Benzyl chloride	91	19.288	19.288	0.0	95	52876	0.2759	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	92	43546	0.2774	
98 4-Isopropyltoluene	119	19.352	19.352	0.0	81	90008	0.2981	
99 1,2,3-Trimethylbenzene	105	19.406	19.409	-0.003	97	68250	0.3264	
100 Butylcyclohexane	83	19.460	19.460	0.0	91	78686	0.3297	
101 2,3-Dihydroindene	117	19.654	19.653	0.001	89	70569	0.3010	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	78	46356	0.2810	
103 n-Butylbenzene	91	19.777	19.777	0.0	96	79971	0.2854	
104 Indene	116	19.777	19.781	-0.004	83	57358	0.2800	
105 Undecane	57	20.068	20.068	0.0	95	59319	0.3250	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.138	20.138	0.0	93	80666	0.2849	
108 1,2,4,5-Tetramethylbenzene	119	20.525	20.525	0.0	96	89023	0.3130	
107 1,2,3,5-Tetramethylbenzene	119	20.579	20.582	-0.003	93	56702	0.3054	
109 1,2,3,4-Tetramethylbenzene	119	20.998	20.998	0.0	95	74166	0.3224	
110 Dodecane	57	21.149	21.148	0.001	92	65545	0.3468	
111 1,2,4-Trichlorobenzene	180	21.380	21.379	0.001	88	21000	0.2861	
112 Naphthalene	128	21.526	21.527	-0.001	98	60395	0.2905	
113 Benzo(b)thiophene	134	21.633	21.631	0.002	90	38727	0.2749	
114 Hexachlorobutadiene	225	21.730	21.729	0.001	83	45108	0.3008	
115 1,2,3-Trichlorobenzene	180	21.800	21.800	0.0	93	29244	0.3083	
116 2-Methylnaphthalene	142	22.451	22.449	0.002	97	47754	2.16	
117 1-Methylnaphthalene	142	22.585	22.583	0.002	97	56061	2.46	
139 Isopropyl ether	45	8.792	8.794	-0.002	96	82128	NR	
142 Tert-butyl ethyl ether	59	9.486	9.487	-0.001	93	74941	NR	
140 Tert-amyl methyl ether	73	11.482	11.482	0.0	76	70041	NR	
A 118 C6 Range	1	8.642	8.588 - 8.696		0	410756	0.4093	
A 122 Toluene Range	1	14.258	14.228 - 14.288		0	190190	0.3183	
A 123 C8 Range	1	14.925	14.882 - 14.968		0	360891	0.3898	
S 124 Xylenes, Total	100				0		0.9404	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L4

Lab Sample ID:

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

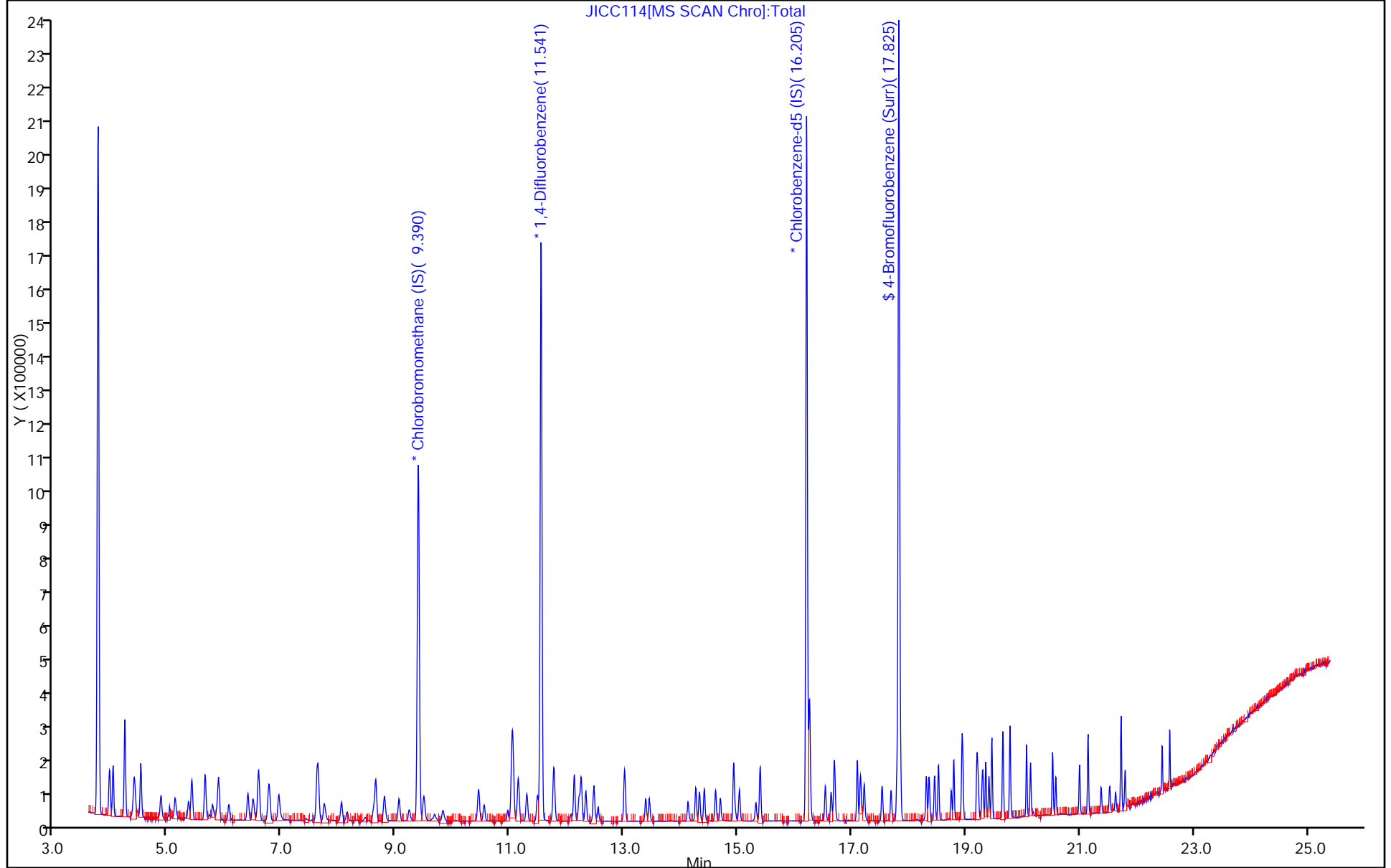
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

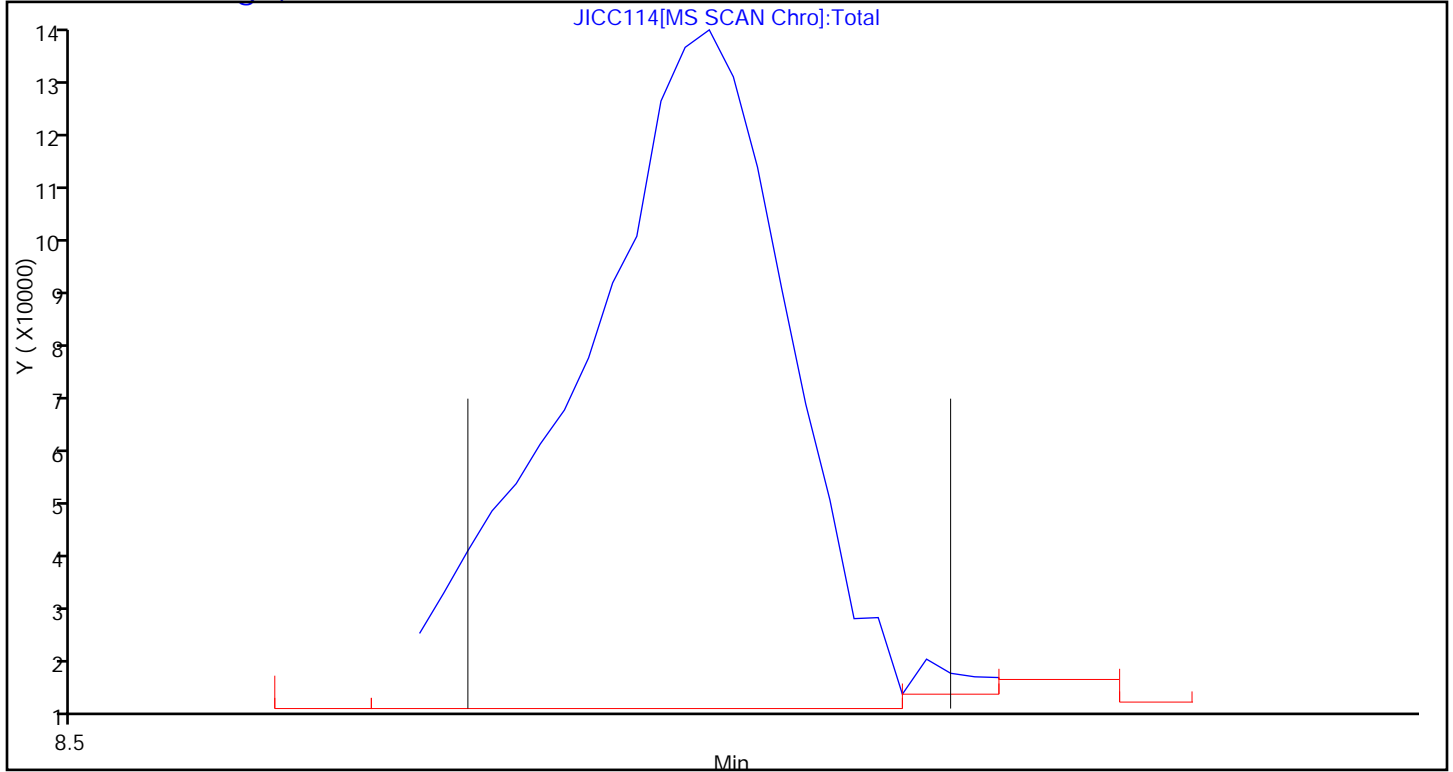
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

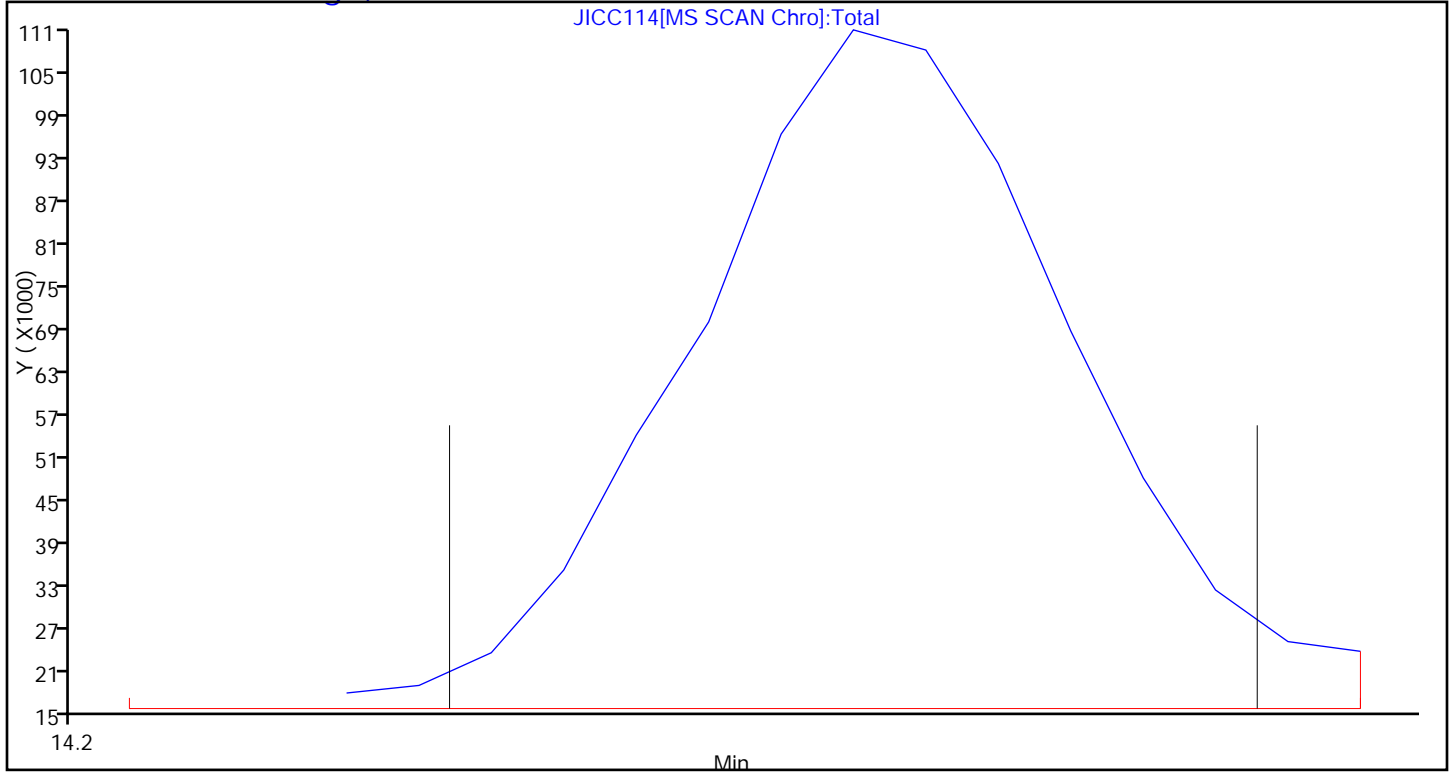
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30 Instrument ID: MJ

Lims ID: IC L4 Lab Sample ID:

Client ID:

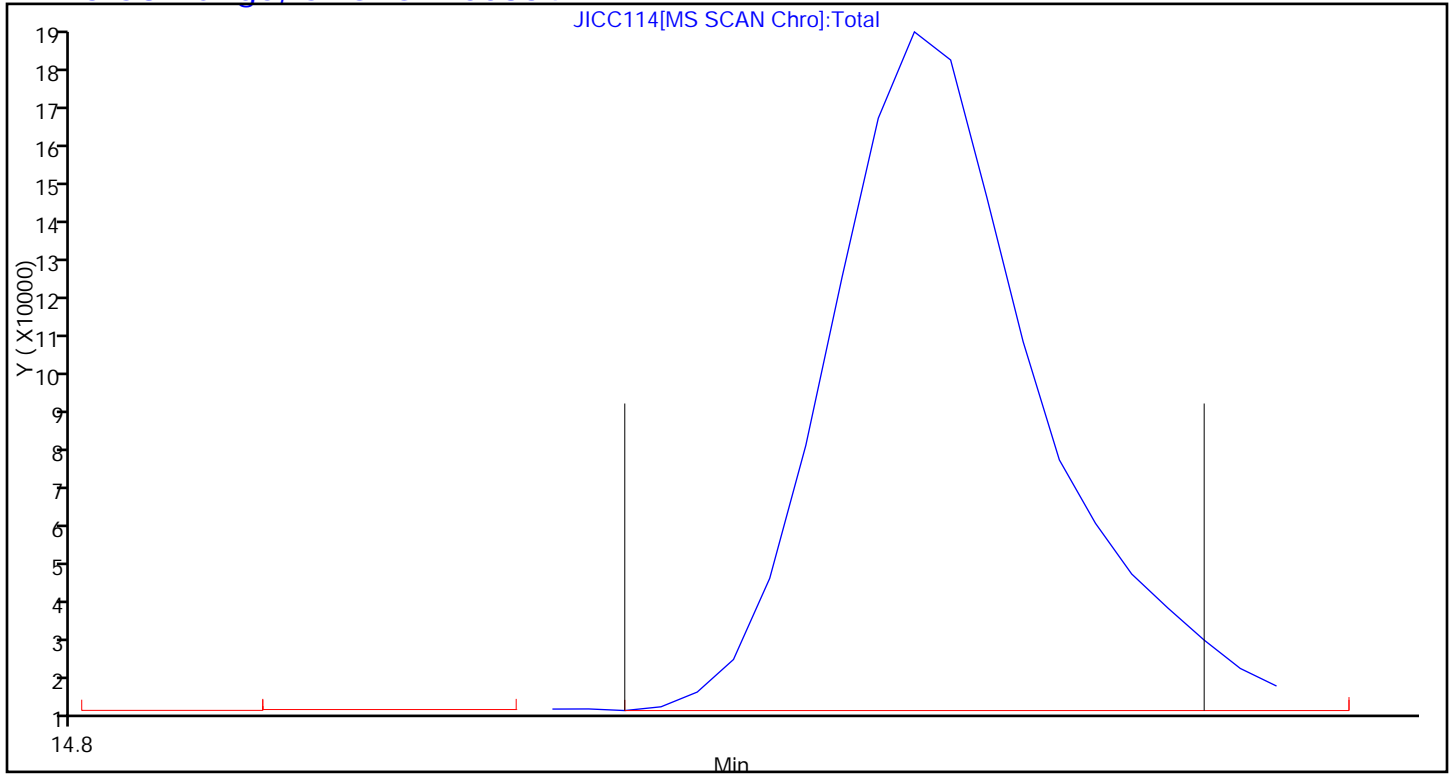
Operator ID: 7126 ALS Bottle#: 10 Worklist Smp#: 5

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D
 Lims ID: IC L5 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Mar-2014 16:17:30 ALS Bottle#: 11 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL5,,1,5,,ICAL 1
 Misc. Info.: J031114I,TO15,,140-0000516-006
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:15 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.392	0.001	93	350674	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	93	1674047	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1432884	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1030162	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	32729	0.9044	
7 Propene	41	3.976	3.973	0.003	99	107699	1.00	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	334566	0.9632	
9 Chloromethane	52	4.229	4.230	-0.001	98	37407	0.9480	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	91	251641	0.9599	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	194092	5.61	
12 Vinyl chloride	62	4.417	4.419	-0.002	98	125449	0.9650	
14 Butadiene	54	4.514	4.517	-0.003	90	87385	0.9674	
13 Butane	43	4.519	4.517	0.002	86	173714	0.9389	
15 Bromomethane	94	4.874	4.871	0.003	98	123346	0.9329	
16 Chloroethane	64	5.025	5.027	-0.002	98	56692	0.9479	
17 Ethanol	31	5.117	5.122	-0.005	95	144711	5.14	
18 Vinyl bromide	106	5.359	5.357	0.002	97	105872	0.9415	
19 2-Methylbutane	43	5.412	5.411	0.001	92	140258	0.9417	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	97	292818	0.9596	
21 Acrolein	56	5.649	5.650	-0.001	24	27013	0.9436	
22 Acetonitrile	40	5.719	5.720	-0.001	100	29505	0.9331	
23 Acetone	58	5.773	5.776	-0.003	85	72907	1.46	
24 Isopropyl alcohol	45	5.854	5.858	-0.004	96	127722	0.9703	
25 Pentane	72	5.886	5.884	0.002	96	18413	0.9759	
26 Ethyl ether	31	6.058	6.059	-0.001	93	94508	1.03	
27 1,1-Dichloroethene	96	6.402	6.399	0.003	97	90818	0.9225	
28 2-Methyl-2-propanol	59	6.478	6.487	-0.009	95	154458	0.9526	
29 Acrylonitrile	53	6.499	6.498	0.001	93	49792	0.9554	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	94	201012	0.9507	
31 Methylene Chloride	84	6.757	6.759	-0.002	96	89695	0.9561	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	90749	0.9300	
33 Carbon disulfide	76	6.940	6.942	-0.002	99	313388	0.9500	
34 trans-1,2-Dichloroethene	96	7.613	7.609	0.004	98	110071	0.9282	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	259682	0.9597	
36 Methyl tert-butyl ether	73	7.736	7.738	-0.002	95	180801	1.01	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	183945	0.99	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	159904	0.9863	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	35887	1.08	
40 Hexane	56	8.640	8.642	-0.002	89	89704	0.9515	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	95	100896	1.00	
42 Ethyl acetate	43	9.226	9.229	-0.003	97	144504	1.00	
43 Chloroform	83	9.404	9.403	0.001	87	200359	0.9806	
44 Tetrahydrofuran	42	9.813	9.816	-0.003	93	78446	0.9658	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	216140	1.01	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	96	125298	0.9648	
47 n-Butanol	31	10.953	10.958	-0.005	84	30453	0.8322	
48 Benzene	78	11.034	11.033	0.001	97	273136	0.9509	
49 Cyclohexane	69	11.039	11.040	-0.001	93	54874	0.9681	
50 Carbon tetrachloride	117	11.061	11.059	0.002	97	236385	1.00	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	65875	0.9721	
52 Thiophene	84	11.298	11.297	0.001	96	173039	0.9755	
53 Isooctane	57	11.771	11.771	0.0	98	474988	0.9685	
54 n-Heptane	71	12.131	12.130	0.001	93	96771	0.9527	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	95014	0.9787	
56 Trichloroethene	130	12.250	12.252	-0.002	97	128335	0.9210	
57 Dibromomethane	93	12.330	12.332	-0.002	91	121268	0.9492	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	98	190788	0.9411	
58 1,4-Dioxane	88	12.481	12.483	-0.002	87	31775	0.9134	
60 Methyl methacrylate	41	12.546	12.548	-0.002	90	82170	0.9434	
61 Methylcyclohexane	83	13.014	13.013	0.001	95	188580	0.9754	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.382	-0.003	98	163854	0.9338	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	95	131004	0.9512	
64 trans-1,3-Dichloropropene	75	14.127	14.126	0.001	98	117538	0.9899	
65 Toluene	91	14.262	14.262	0.0	93	264651	1.00	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	96	84373	1.00	
67 2-Methylthiophene	97	14.412	14.413	-0.001	98	237579	0.99	
68 3-Methylthiophene	97	14.611	14.612	-0.001	99	241139	1.01	
69 2-Hexanone	58	14.692	14.694	-0.002	92	79350	0.9114	
70 n-Octane	85	14.929	14.928	0.001	94	94899	0.9730	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	174527	0.9386	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	97	142171	0.9847	
73 Tetrachloroethene	129	15.391	15.393	-0.002	92	112818	0.9111	
75 Chlorobenzene	112	16.257	16.256	0.001	84	213586	0.9406	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	95	299289	1.02	
76 Ethylbenzene	91	16.537	16.536	0.001	98	284603	0.9693	
77 2-Ethylthiophene	97	16.639	16.638	0.001	97	225682	0.9808	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	437938	1.85	
79 n-Nonane	57	17.097	17.098	-0.001	93	182421	0.9895	
81 Bromoform	173	17.150	17.149	0.001	93	134430	0.9151	
80 Styrene	104	17.156	17.157	-0.001	98	156161	0.9598	
82 o-Xylene	91	17.220	17.220	0.0	96	232024	0.9661	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	99	183648	0.9358	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	97	43710	0.9288	
85 Isopropylbenzene	105	17.791	17.793	-0.002	96	322210	0.9415	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	81294	0.9008	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	97	86903	0.9227	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	98	291767	0.9142	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	92	140307	0.8745	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	84	104233	0.9066	
91 n-Decane	57	18.791	18.793	-0.002	88	192549	0.9800	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	276681	0.8830	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	95	247215	0.8884	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	371473	0.9095	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	98	150681	0.8238	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	171797	0.8266	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	93	135286	0.7947	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	295742	0.9032	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	207460	0.9149	
100 Butylcyclohexane	83	19.458	19.460	-0.002	93	250533	0.9680	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	223109	0.8775	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	148540	0.8303	
103 n-Butylbenzene	91	19.776	19.777	-0.001	96	267179	0.8794	
104 Indene	116	19.781	19.781	0.0	85	196085	0.8826	
105 Undecane	57	20.066	20.068	-0.002	96	175793	0.8882	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	268427	0.8743	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	97	282429	0.9156	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	94	177582	0.8820	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	97	222908	0.8936	
110 Dodecane	57	21.147	21.148	-0.001	94	185701	0.9061	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	66621	0.8371	
112 Naphthalene	128	21.529	21.527	0.002	99	186491	0.8271	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	98	119182	0.7801	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	84	136244	0.8378	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	95	87992	0.8556	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	99	149184	6.22	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	164584	6.66	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	244016	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	95	220627	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	81	203973	NR	
A 118 C6 Range	1	8.640	8.581 -	8.699	0	1022928	1.00	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	633377	0.9777	
A 123 C8 Range	1	14.934	14.886 -	14.983	0	997149	0.99	
S 124 Xylenes, Total	100				0		2.81	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L5

Lab Sample ID:

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

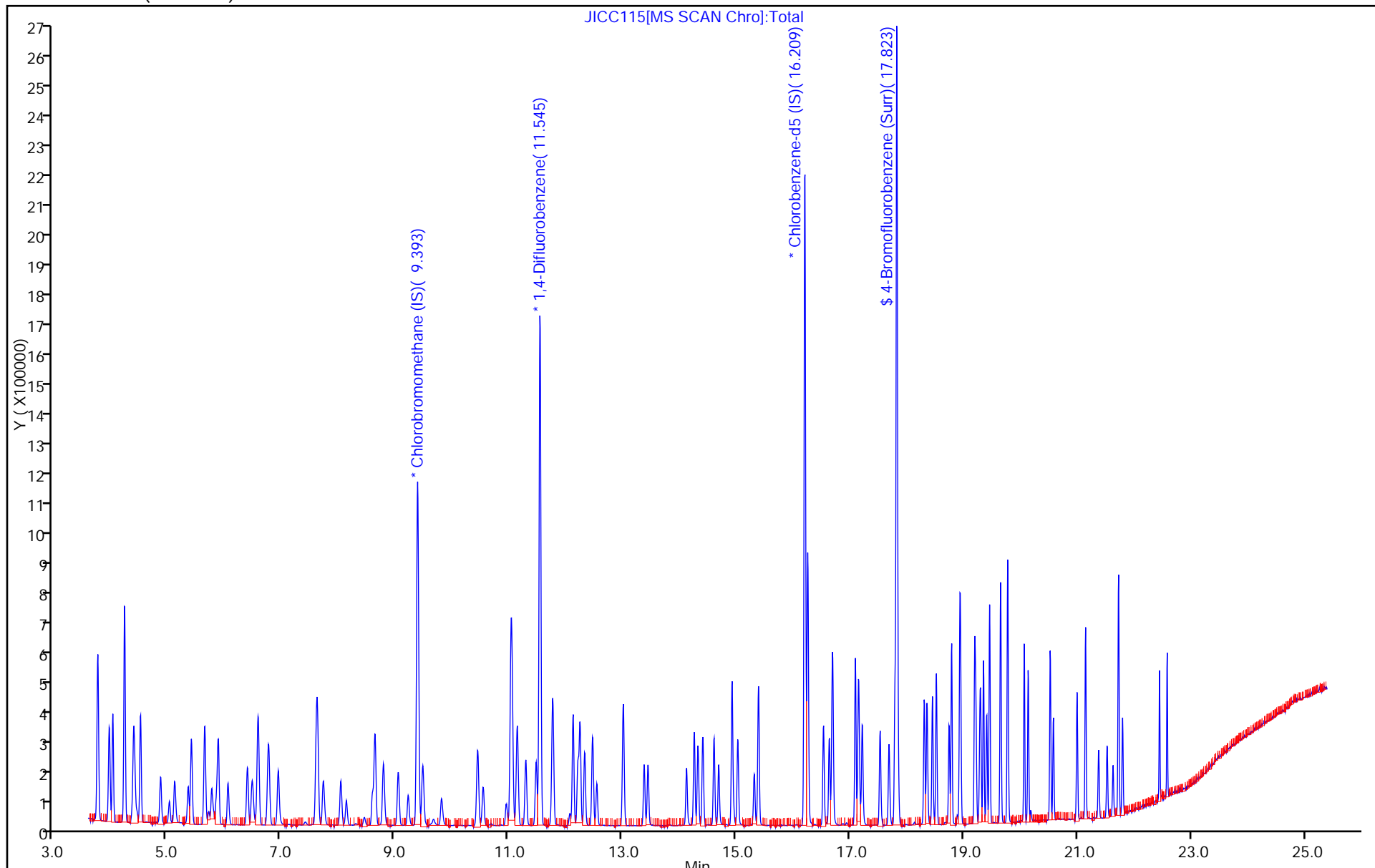
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30 Instrument ID: MJ

Lims ID: IC L5 Lab Sample ID:

Client ID:

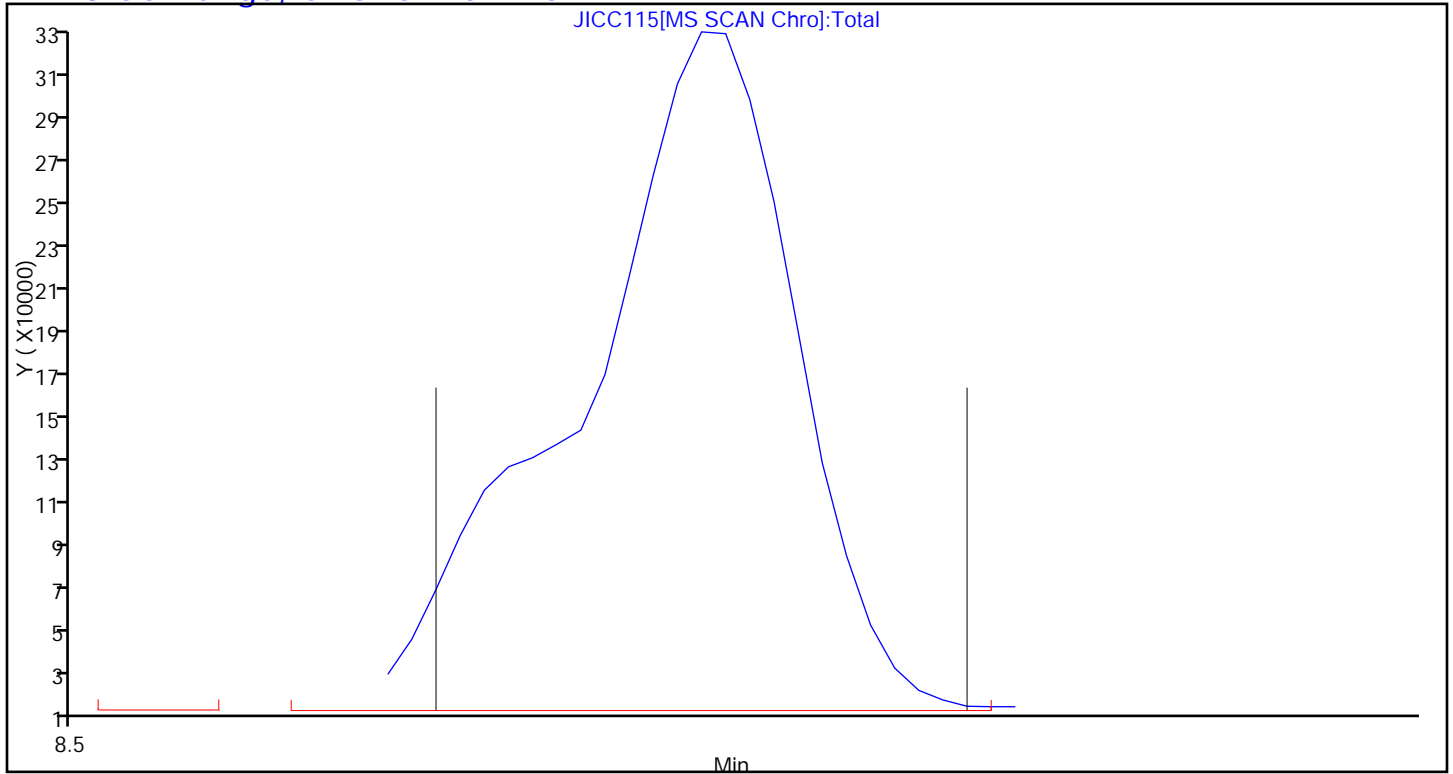
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30 Instrument ID: MJ

Lims ID: IC L5 Lab Sample ID:

Client ID:

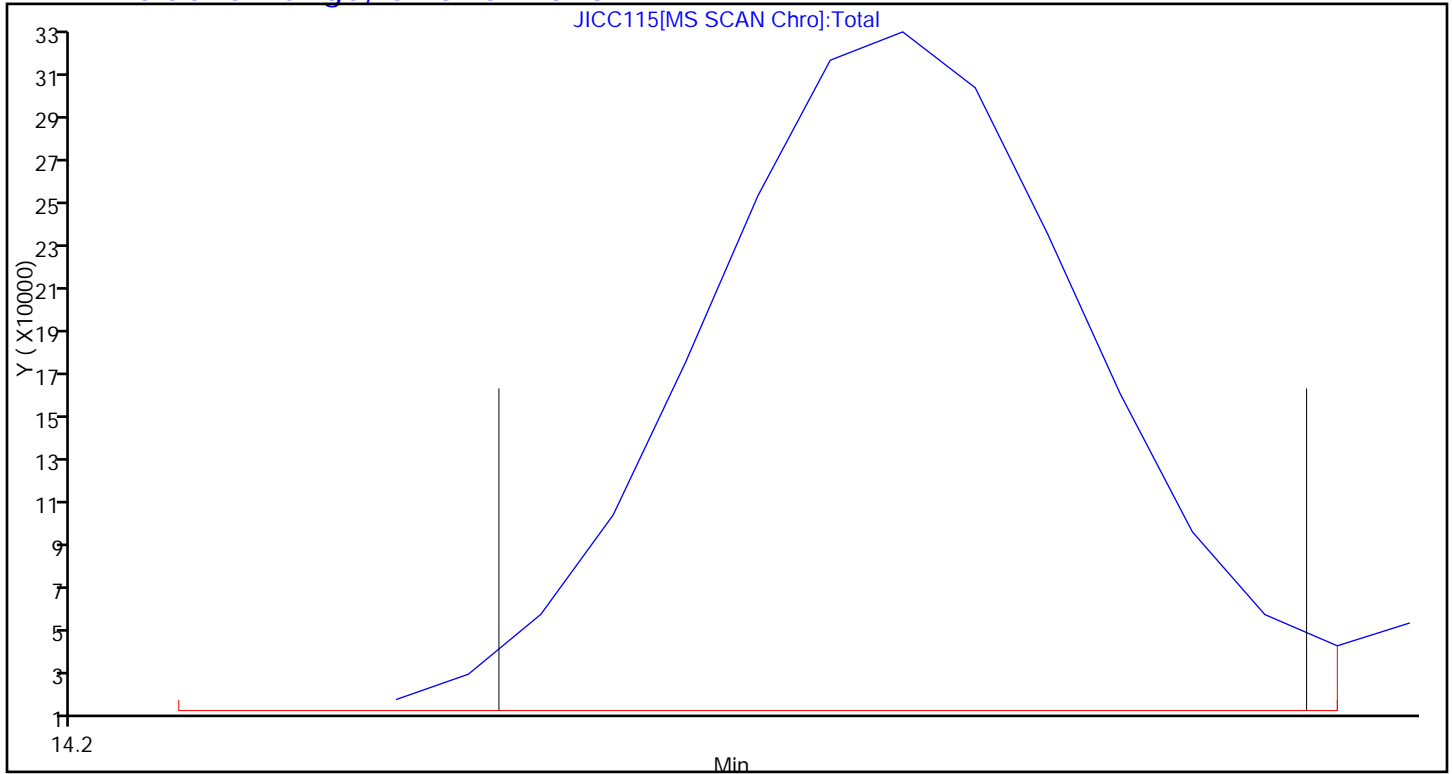
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30 Instrument ID: MJ

Lims ID: IC L5 Lab Sample ID:

Client ID:

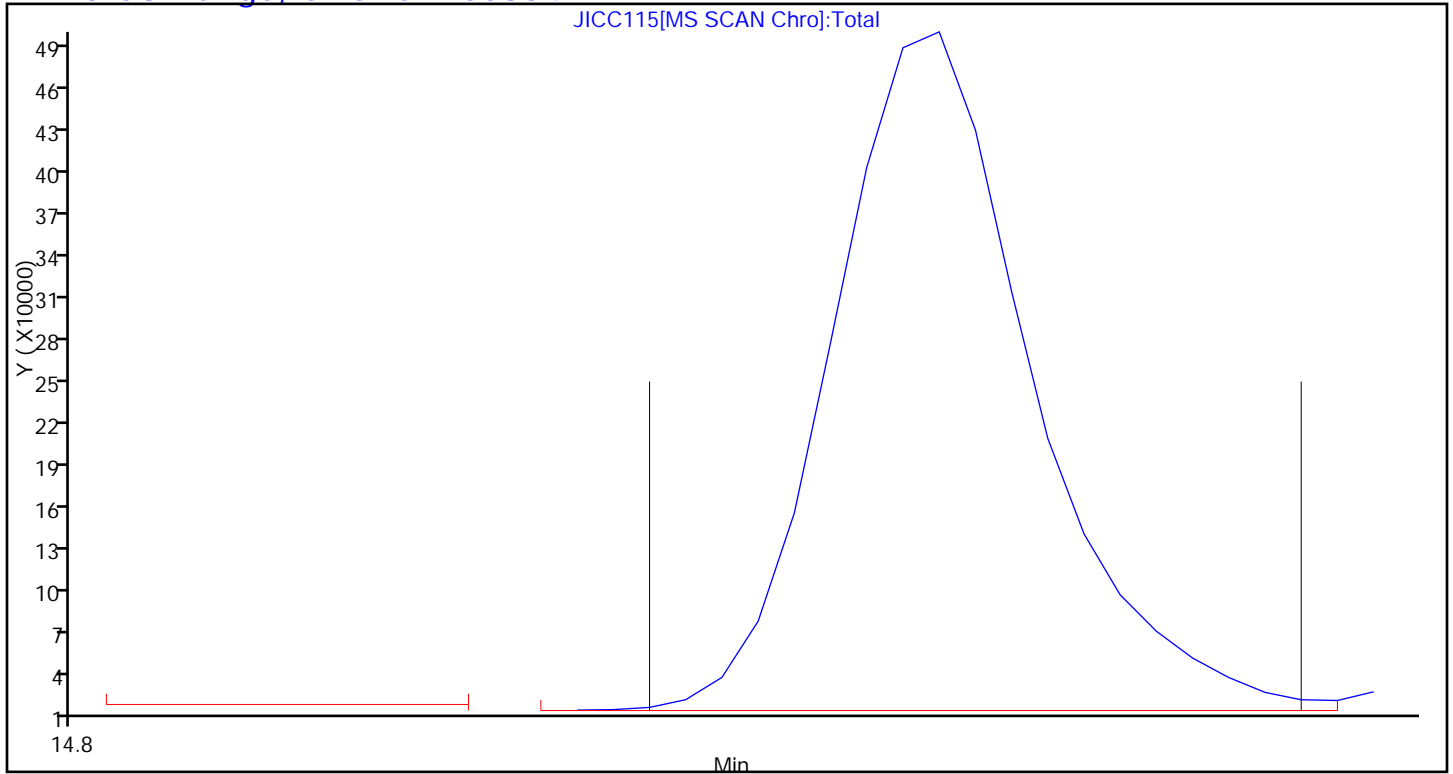
Operator ID: 7126 ALS Bottle#: 11 Worklist Smp#: 6

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D
 Lims ID: ICIS L6 Lab Sample ID:
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 11-Mar-2014 17:11:30 ALS Bottle#: 12 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL6,,1,6,,ICAL 2
 Misc. Info.: J031114I,TO15,,140-0000516-007
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:47:02 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.392	0.002	92	351204	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	92	1664083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1450172	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	89	1040623	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	65895	1.82	
7 Propene	41	3.971	3.973	-0.002	99	203864	1.89	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	677907	1.95	
9 Chloromethane	52	4.229	4.230	-0.001	98	75510	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	92	515628	1.96	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	339724	9.80	
12 Vinyl chloride	62	4.418	4.419	-0.001	99	254791	1.96	
14 Butadiene	54	4.514	4.517	-0.003	66	175277	1.94	
13 Butane	43	4.514	4.517	-0.003	86	348021	1.88	
15 Bromomethane	94	4.869	4.871	-0.002	99	250854	1.89	
16 Chloroethane	64	5.025	5.027	-0.002	100	113435	1.89	
17 Ethanol	31	5.117	5.122	-0.005	95	281128	9.97	
18 Vinyl bromide	106	5.354	5.357	-0.003	97	216421	1.92	
19 2-Methylbutane	43	5.413	5.411	0.002	92	280290	1.88	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	98	594264	1.94	
21 Acrolein	56	5.649	5.650	-0.001	68	53042	1.85	
22 Acetonitrile	40	5.714	5.720	-0.006	100	59141	1.87	
23 Acetone	58	5.773	5.776	-0.003	85	101503	2.03	
24 Isopropyl alcohol	45	5.849	5.858	-0.009	94	252925	1.92	
25 Pentane	72	5.886	5.884	0.002	97	37045	1.96	
26 Ethyl ether	31	6.053	6.059	-0.006	93	179455	1.95	
27 1,1-Dichloroethene	96	6.397	6.399	-0.002	97	184446	1.87	
28 2-Methyl-2-propanol	59	6.473	6.487	-0.014	95	272663	1.68	
29 Acrylonitrile	53	6.494	6.498	-0.004	95	99812	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.586	6.586	0.0	95	409082	1.93	
31 Methylene Chloride	84	6.758	6.759	-0.001	95	180581	1.92	
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	183622	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.941	6.942	-0.001	99	641989	1.94	
34 trans-1,2-Dichloroethene	96	7.608	7.609	-0.001	98	225627	1.90	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	522389	1.93	
36 Methyl tert-butyl ether	73	7.731	7.738	-0.007	96	356577	1.99	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	362051	1.95	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	322885	1.99	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	69610	2.09	
40 Hexane	56	8.640	8.642	-0.002	90	180662	1.91	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	95	200551	1.98	
42 Ethyl acetate	43	9.227	9.229	-0.002	97	292814	2.02	
43 Chloroform	83	9.404	9.403	0.001	96	388598	1.90	
44 Tetrahydrofuran	42	9.808	9.816	-0.008	94	156408	1.92	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	422225	1.98	
46 1,2-Dichloroethane	62	10.545	10.547	-0.002	95	248475	1.92	
47 n-Butanol	31	10.948	10.958	-0.010	88	63073	1.73	
48 Benzene	78	11.034	11.033	0.001	97	540059	1.89	
49 Cyclohexane	69	11.040	11.040	0.0	92	110363	1.96	
50 Carbon tetrachloride	117	11.061	11.059	0.002	96	443845	1.88	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	127368	1.89	
52 Thiophene	84	11.298	11.297	0.001	96	339429	1.93	
53 Isooctane	57	11.771	11.771	0.0	98	916367	1.88	
54 n-Heptane	71	12.132	12.130	0.002	92	191563	1.90	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	187039	1.94	
56 Trichloroethene	130	12.250	12.252	-0.002	93	255418	1.84	
57 Dibromomethane	93	12.331	12.332	-0.001	91	238917	1.88	
59 Dichlorobromomethane	83	12.471	12.472	-0.001	99	383587	1.90	
58 1,4-Dioxane	88	12.476	12.483	-0.007	85	63279	1.83	
60 Methyl methacrylate	41	12.546	12.548	-0.002	91	169117	1.95	
61 Methylcyclohexane	83	13.014	13.013	0.001	96	363492	1.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.382	-0.002	98	336876	1.93	
63 cis-1,3-Dichloropropene	75	13.450	13.448	0.002	94	261947	1.91	
64 trans-1,3-Dichloropropene	75	14.128	14.126	0.002	98	234824	1.95	
65 Toluene	91	14.262	14.262	0.0	94	519669	1.93	
66 1,1,2-Trichloroethane	83	14.327	14.328	-0.001	97	166783	1.96	
67 2-Methylthiophene	97	14.413	14.413	0.0	98	477759	1.98	
68 3-Methylthiophene	97	14.612	14.612	0.0	99	476584	1.97	
69 2-Hexanone	58	14.692	14.694	-0.002	93	161365	1.83	
70 n-Octane	85	14.929	14.928	0.001	94	185219	1.88	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	362439	1.93	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	98	283094	1.94	
73 Tetrachloroethene	129	15.392	15.393	-0.001	92	226667	1.81	
75 Chlorobenzene	112	16.258	16.256	0.002	87	423684	1.84	
74 2,3-Dimethylheptane	43	16.258	16.260	-0.002	95	563663	1.90	
76 Ethylbenzene	91	16.538	16.536	0.002	98	566249	1.91	
77 2-Ethylthiophene	97	16.640	16.638	0.002	97	450374	1.93	
78 m-Xylene & p-Xylene	91	16.694	16.696	-0.002	100	877038	3.66	
79 n-Nonane	57	17.097	17.098	-0.001	93	359753	1.93	
81 Bromoform	173	17.151	17.149	0.002	94	285787	1.92	
80 Styrene	104	17.156	17.157	-0.001	98	329540	2.00	
82 o-Xylene	91	17.221	17.220	0.001	96	451038	1.86	
83 1,1,2,2-Tetrachloroethane	83	17.533	17.534	-0.001	99	370844	1.87	
84 1,2,3-Trichloropropane	110	17.689	17.690	-0.001	97	88416	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.791	17.793	-0.002	97	640978	1.85	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	169743	1.86	
87 2-Chlorotoluene	126	18.356	18.357	-0.001	97	172536	1.81	
88 4-Ethyltoluene	105	18.453	18.454	-0.001	97	602615	1.87	
89 1,3,5-Trimethylbenzene	120	18.523	18.524	-0.001	92	288648	1.78	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	85	232501	2.00	
91 n-Decane	57	18.792	18.793	-0.001	89	383736	1.93	
92 tert-Butylbenzene	119	18.937	18.937	0.0	87	563181	1.78	
93 1,2,4-Trimethylbenzene	105	18.948	18.949	-0.001	95	510168	1.81	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	753094	1.82	
95 1,3-Dichlorobenzene	146	19.217	19.217	-0.001	99	312974	1.69	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	376583	1.79	
97 1,4-Dichlorobenzene	146	19.303	19.302	0.001	94	286084	1.66	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	611347	1.84	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	421832	1.84	
100 Butylcyclohexane	83	19.459	19.460	-0.001	93	480940	1.84	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	462728	1.80	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	80	310746	1.72	
103 n-Butylbenzene	91	19.776	19.777	-0.001	97	566214	1.84	
104 Indene	116	19.781	19.781	0.0	86	427230	1.90	
105 Undecane	57	20.066	20.068	-0.002	96	366563	1.83	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	564256	1.82	
108 1,2,4,5-Tetramethylbenzene	119	20.524	20.525	-0.001	96	585097	1.87	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	95	360803	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	96	458134	1.81	
110 Dodecane	57	21.148	21.148	0.0	95	378646	1.83	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	143447	1.78	
112 Naphthalene	128	21.524	21.527	-0.003	99	394479	1.73	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	99	259843	1.68	
114 Hexachlorobutadiene	225	21.729	21.729	0.0	84	268985	1.63	
115 1,2,3-Trichlorobenzene	180	21.799	21.800	-0.001	95	178007	1.71	
116 2-Methylnaphthalene	142	22.450	22.449	0.001	98	307709	12.7	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	331073	13.2	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	479467	NR	
142 Tert-butyl ethyl ether	59	9.480	9.487	-0.007	95	438027	NR	
140 Tert-amyl methyl ether	73	11.475	11.482	-0.007	92	413190	NR	
A 118 C6 Range	1	8.640	8.571 - 8.710		0	2011864	1.96	
A 122 Toluene Range	1	14.262	14.232 - 14.292		0	1258419	1.92	
A 123 C8 Range	1	14.927	14.881 - 14.988		0	1829147	1.80	
S 124 Xylenes, Total	100				0		5.51	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICIS L6

Lab Sample ID:

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

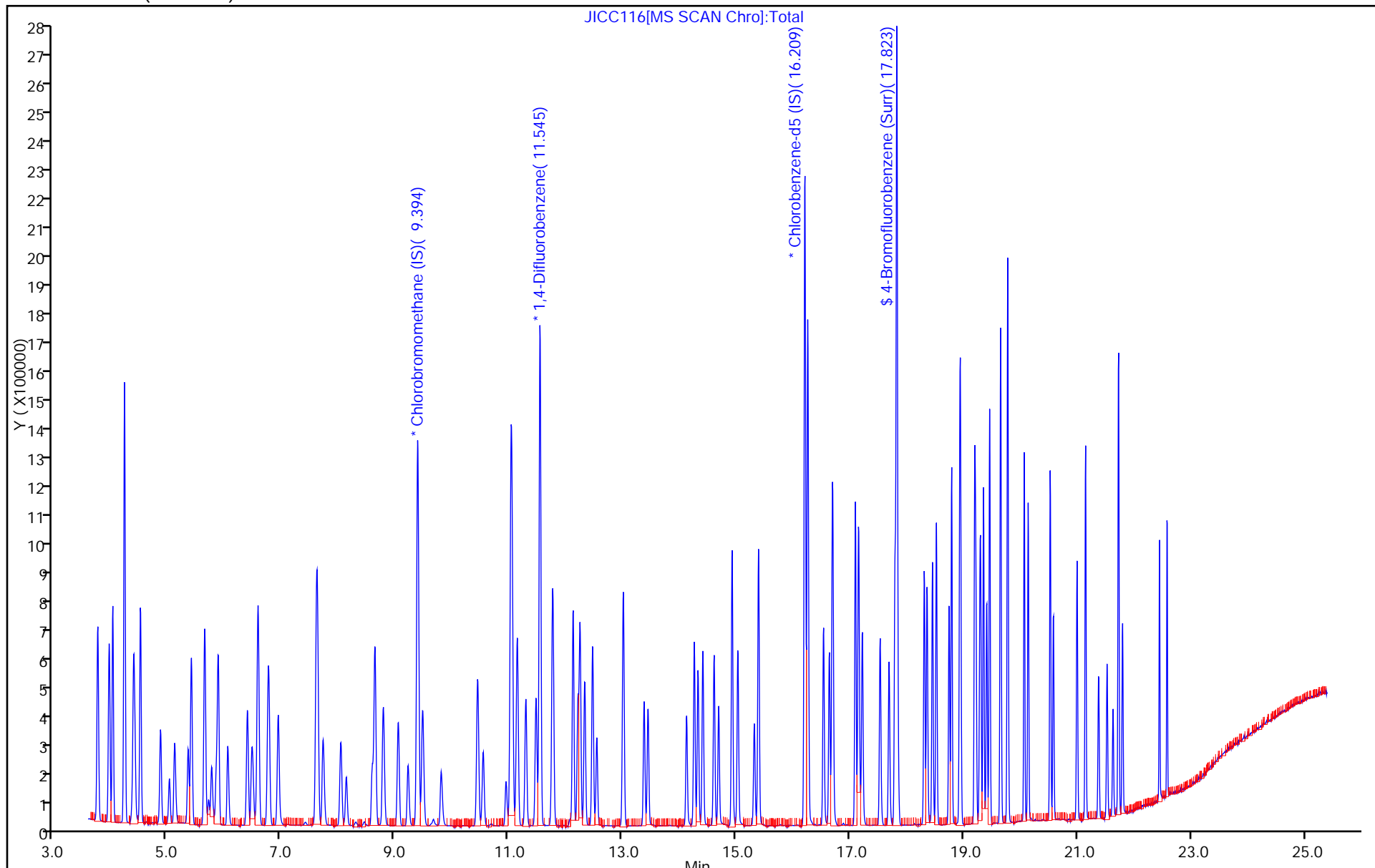
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30 Instrument ID: MJ

Lims ID: ICIS L6 Lab Sample ID:

Client ID:

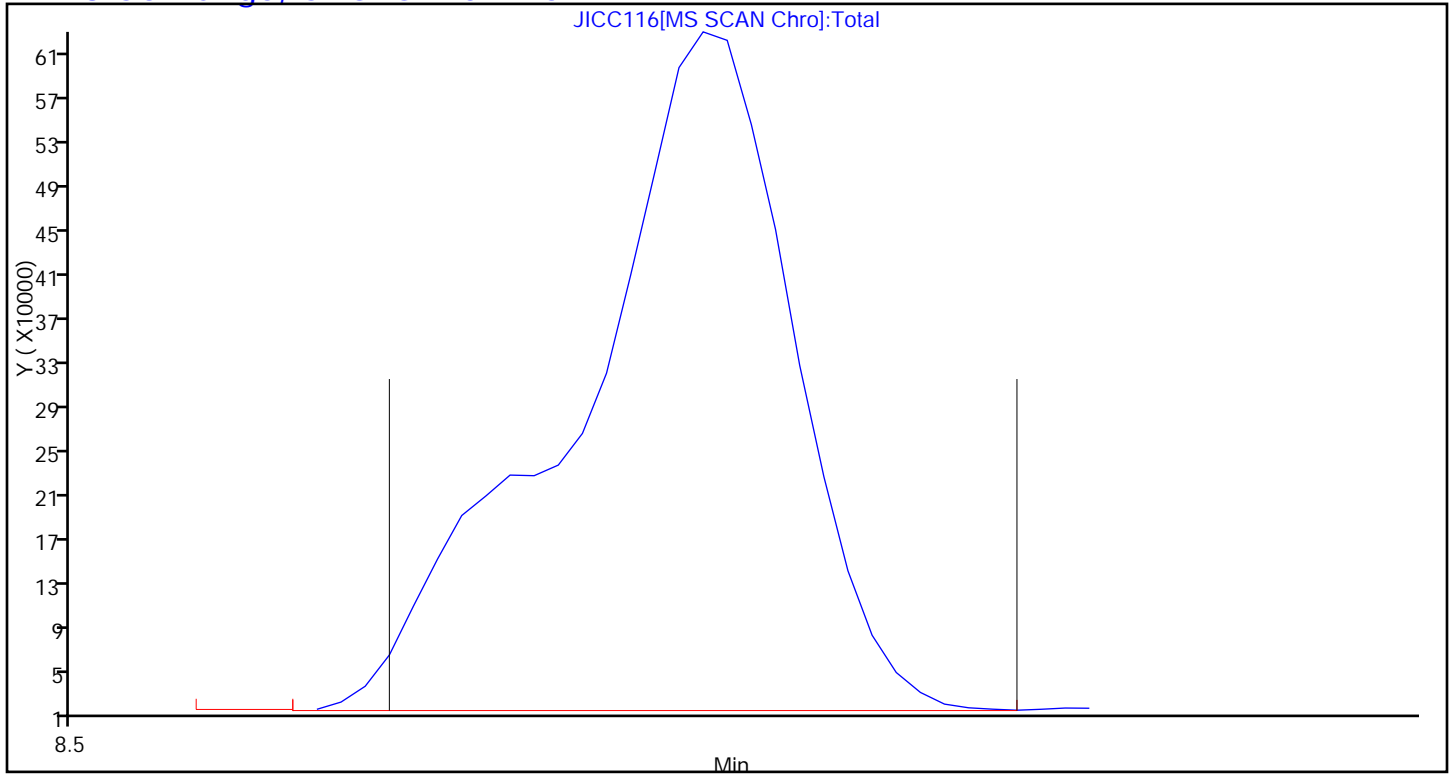
Operator ID: 7126 ALS Bottle#: 12 Worklist Smp#: 7

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

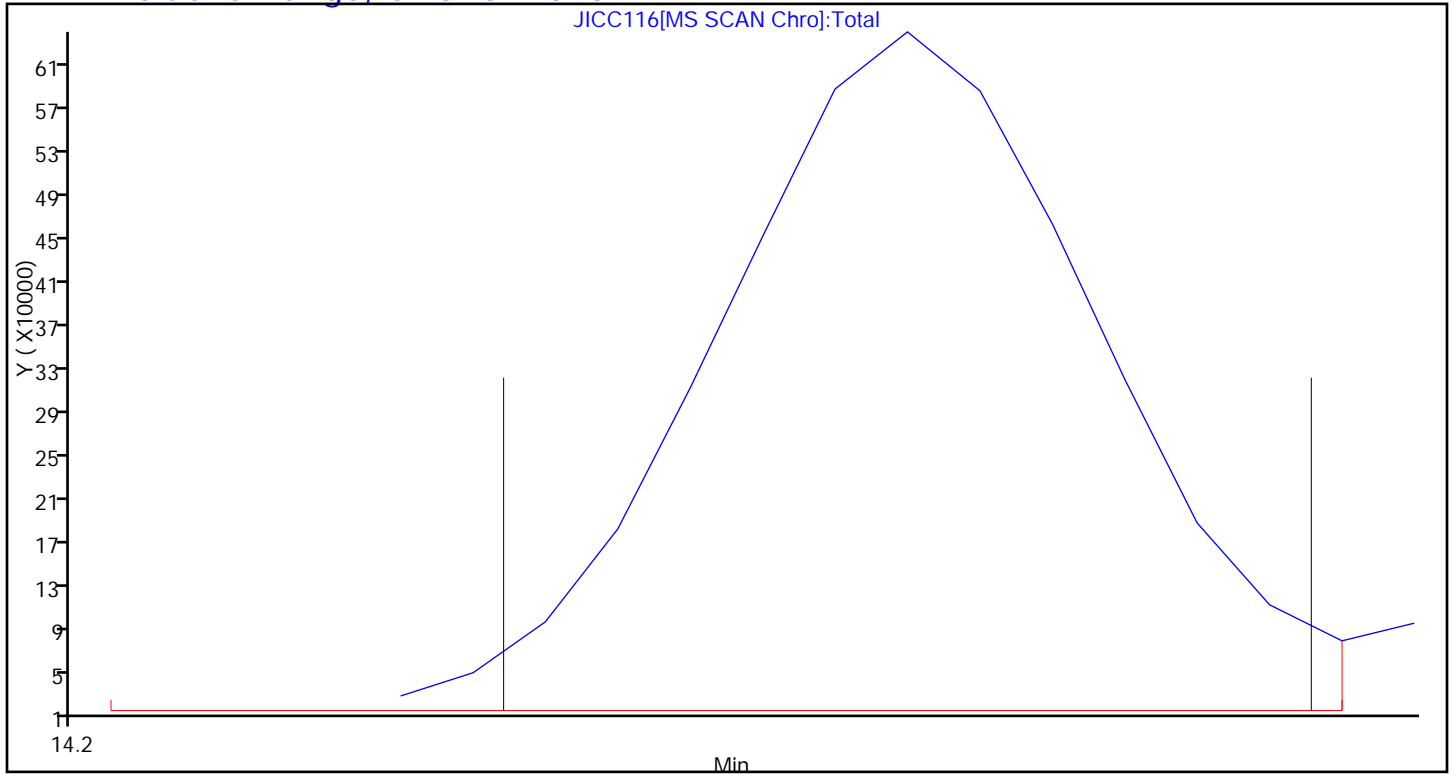
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

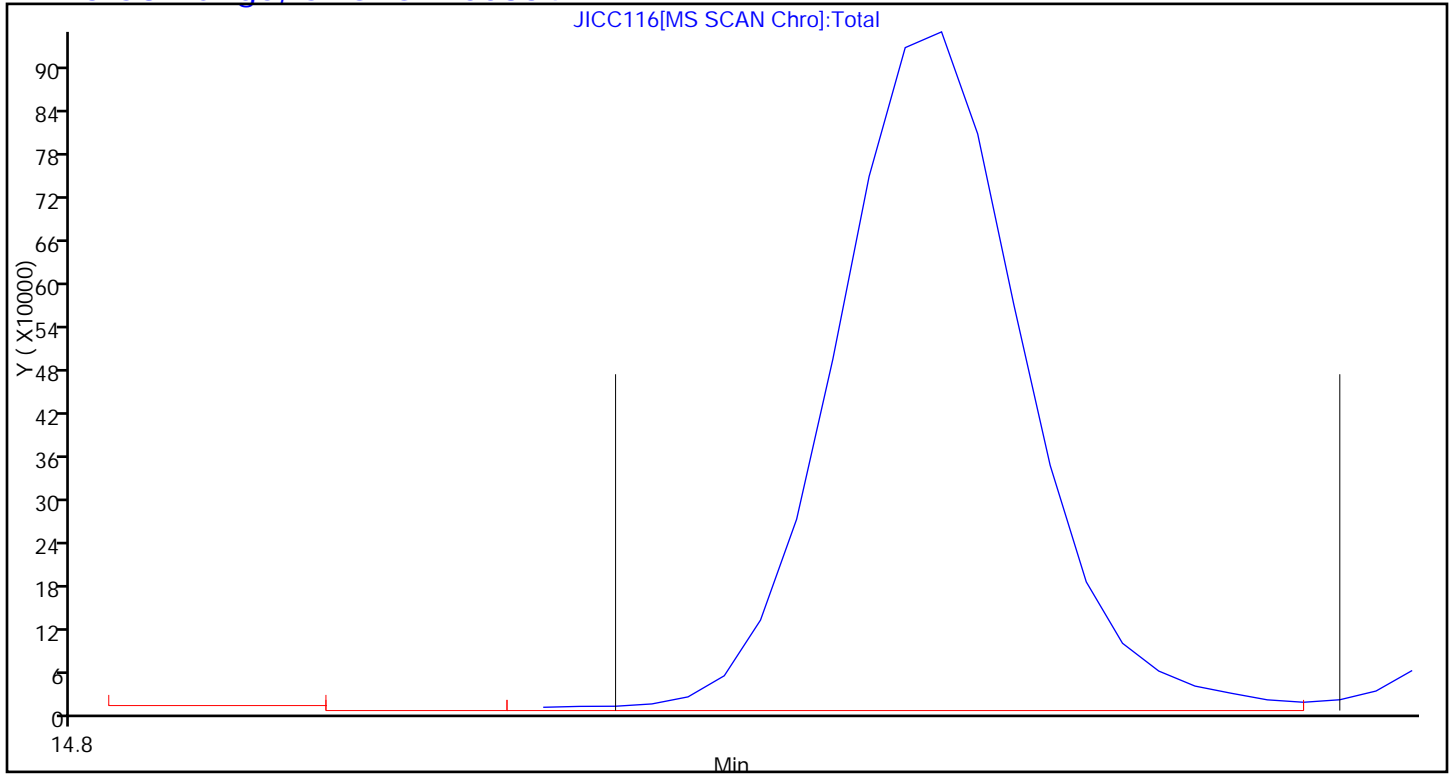
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D
 Lims ID: IC L7 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Mar-2014 18:06:30 ALS Bottle#: 13 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL7,,1,7,,ICAL 4
 Misc. Info.: J031114I,TO15,,140-0000516-008
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.391	9.392	-0.001	93	348015	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	92	1571787	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1348573	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.826	17.825	0.001	89	982151	4.12	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	127336	3.55	
7 Propene	41	3.973	3.973	0.0	99	380299	3.56	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	1288306	3.74	
9 Chloromethane	52	4.232	4.230	0.002	99	142083	3.63	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	1010496	3.88	
11 Acetaldehyde	44	4.398	4.398	0.0	98	590590	17.2	
12 Vinyl chloride	62	4.420	4.419	0.001	99	481131	3.73	
14 Butadiene	54	4.517	4.517	0.0	66	332507	3.71	
13 Butane	43	4.517	4.517	0.0	85	651614	3.55	
15 Bromomethane	94	4.872	4.871	0.001	99	483336	3.68	
16 Chloroethane	64	5.028	5.027	0.001	99	220811	3.72	
17 Ethanol	31	5.119	5.122	-0.003	95	536616	19.2	
18 Vinyl bromide	106	5.356	5.357	-0.001	97	427699	3.83	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	537867	3.64	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	97	1161422	3.84	
21 Acrolein	56	5.646	5.650	-0.004	24	99357	3.50	
22 Acetonitrile	40	5.716	5.720	-0.004	99	106520	3.39	
23 Acetone	58	5.770	5.776	-0.006	91	119169	2.41	
24 Isopropyl alcohol	45	5.851	5.858	-0.007	98	503623	3.86	
25 Pentane	72	5.883	5.884	-0.001	98	73196	3.91	
26 Ethyl ether	31	6.050	6.059	-0.009	94	329259	3.62	
27 1,1-Dichloroethene	96	6.400	6.399	0.001	98	372110	3.81	
28 2-Methyl-2-propanol	59	6.475	6.487	-0.012	94	583041	3.62	
29 Acrylonitrile	53	6.496	6.498	-0.002	93	192415	3.72	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	95	813723	3.88	
31 Methylene Chloride	84	6.760	6.759	0.001	95	352418	3.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	92	355060	3.67	
33 Carbon disulfide	76	6.943	6.942	0.001	99	1258326	3.84	
34 trans-1,2-Dichloroethene	96	7.610	7.609	0.001	99	451426	3.84	
35 2-Methylpentane	43	7.631	7.631	0.0	95	1006835	3.75	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	673998	3.79	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	703411	3.83	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	596834	3.71	
39 2-Butanone (MEK)	72	8.594	8.601	-0.007	100	125222	3.80	
40 Hexane	56	8.643	8.642	0.001	88	346825	3.71	
41 cis-1,2-Dichloroethene	96	9.052	9.052	0.0	94	388357	3.87	
42 Ethyl acetate	43	9.224	9.229	-0.005	99	549427	3.83	
43 Chloroform	83	9.401	9.403	-0.002	96	755016	3.72	
44 Tetrahydrofuran	42	9.805	9.816	-0.011	94	291715	3.62	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	807351	3.82	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	96	473508	3.88	
47 n-Butanol	31	10.945	10.958	-0.013	89	133536	3.89	
48 Benzene	78	11.031	11.033	-0.002	97	1059675	3.93	
49 Cyclohexane	69	11.042	11.040	0.002	93	212371	3.99	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	99	893077	4.01	
51 2,3-Dimethylpentane	71	11.150	11.148	0.002	91	243353	3.82	
52 Thiophene	84	11.300	11.297	0.003	96	650293	3.90	
53 Isooctane	57	11.774	11.771	0.003	98	1747868	3.80	
54 n-Heptane	71	12.129	12.130	-0.001	92	367648	3.85	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	85	352739	3.87	
56 Trichloroethene	130	12.252	12.252	0.0	93	487687	3.73	
57 Dibromomethane	93	12.333	12.332	0.001	92	456395	3.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	749991	3.94	
58 1,4-Dioxane	88	12.473	12.483	-0.010	37	131505	4.03	
60 Methyl methacrylate	41	12.548	12.548	0.0	91	333332	4.08	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	683968	3.77	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	661355	4.01	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	94	507092	3.92	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	97	446194	3.99	
65 Toluene	91	14.264	14.262	0.002	94	985546	3.94	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	313466	3.95	
67 2-Methylthiophene	97	14.415	14.413	0.002	97	895031	3.98	
68 3-Methylthiophene	97	14.614	14.612	0.002	99	900038	3.99	
69 2-Hexanone	58	14.689	14.694	-0.005	93	329061	4.02	
70 n-Octane	85	14.926	14.928	-0.002	93	363887	3.96	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	735197	4.20	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	539062	3.97	
73 Tetrachloroethene	129	15.394	15.393	0.001	93	437989	3.76	
75 Chlorobenzene	112	16.255	16.256	-0.001	94	827157	3.87	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	94	1076318	3.91	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	1067867	3.86	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	98	856076	3.95	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	99	1665289	7.47	
79 n-Nonane	57	17.099	17.098	0.001	92	701033	4.04	
81 Bromoform	173	17.148	17.149	-0.001	94	603733	4.37	
80 Styrene	104	17.158	17.157	0.001	97	638753	4.17	
82 o-Xylene	91	17.218	17.220	-0.002	96	854151	3.78	
83 1,1,2,2-Tetrachloroethane	83	17.535	17.534	0.001	99	731970	3.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	174026	3.93	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	1246662	3.87	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	337130	3.97	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	335960	3.79	
88 4-Ethyltoluene	105	18.455	18.454	0.001	97	1212360	4.04	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	93	586616	3.89	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	86	498439	4.61	
91 n-Decane	57	18.794	18.793	0.001	89	760833	4.11	
92 tert-Butylbenzene	119	18.939	18.937	0.002	88	1160846	3.94	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	94	1046672	4.00	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	1534847	3.99	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	649208	3.77	
96 Benzyl chloride	91	19.289	19.288	0.001	98	804987	4.12	
97 1,4-Dichlorobenzene	146	19.300	19.302	-0.002	94	593980	3.71	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	1253285	4.07	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	842178	3.95	
100 Butylcyclohexane	83	19.461	19.460	0.001	94	943677	3.87	
101 2,3-Dihydroindene	117	19.655	19.653	0.002	89	948230	3.96	
102 1,2-Dichlorobenzene	146	19.655	19.653	0.002	82	646950	3.84	
103 n-Butylbenzene	91	19.778	19.777	0.001	97	1183694	4.14	
104 Indene	116	19.778	19.781	-0.003	86	918630	4.39	
105 Undecane	57	20.069	20.068	0.001	96	752219	4.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	96	1174726	4.07	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	1242657	4.28	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	763734	4.03	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	97	969881	4.13	
110 Dodecane	57	21.145	21.148	-0.003	95	748275	3.88	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	317385	4.24	
112 Naphthalene	128	21.527	21.527	0.0	99	840765	3.96	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	569891	3.96	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	564546	3.69	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	366981	3.79	
116 2-Methylnaphthalene	142	22.447	22.449	-0.003	96	634411	28.1	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	631891	27.2	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	915837	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	861034	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	88	814994	NR	
A 118 C6 Range	1	8.643	8.573 - 8.713		0	3810714	3.75	
A 122 Toluene Range	1	14.264	14.234 - 14.294		0	2348373	3.85	
A 123 C8 Range	1	14.926	14.878 - 14.974		0	3391784	3.59	
S 124 Xylenes, Total	100				0		11.2	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L7

Lab Sample ID:

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

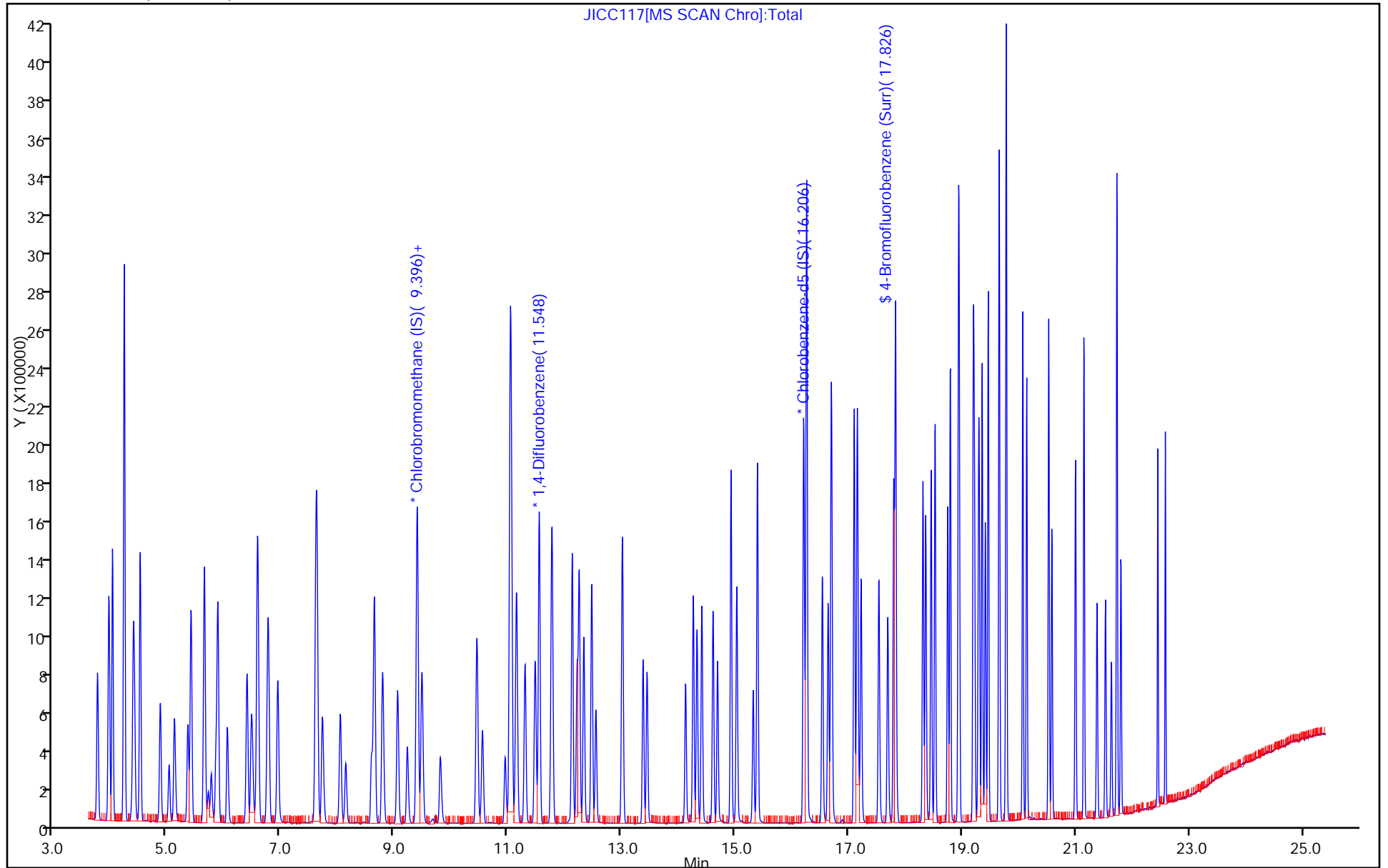
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Lims ID: IC L7

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

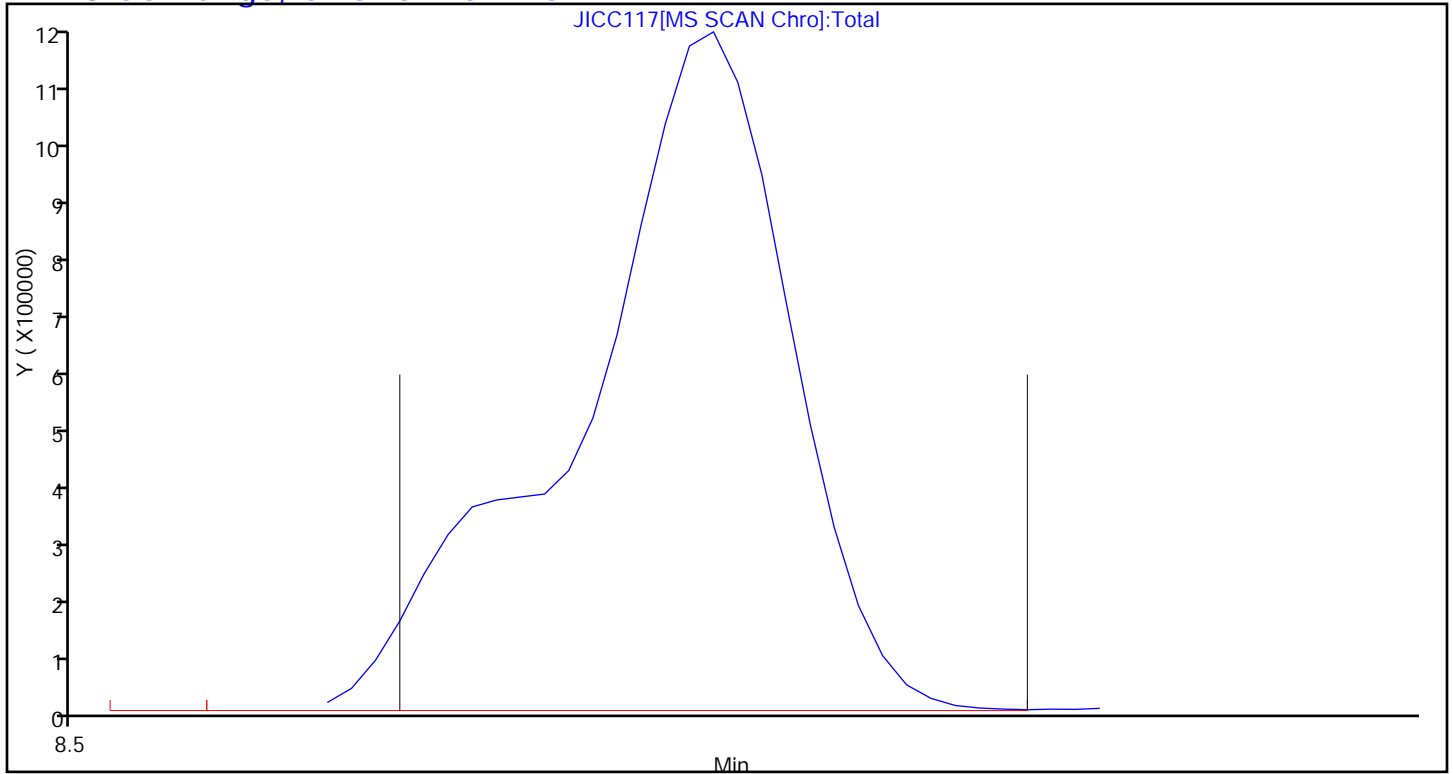
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

Client ID:

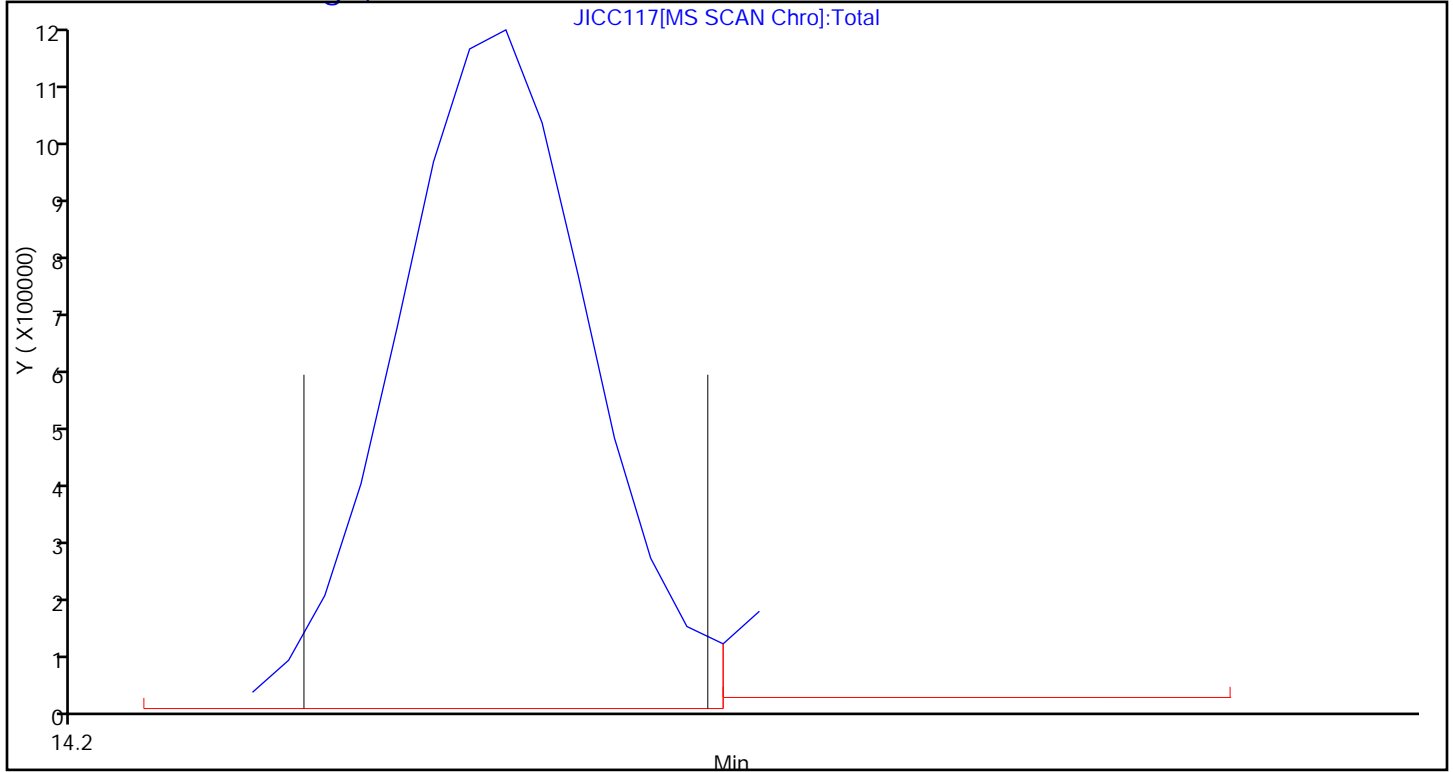
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30 Instrument ID: MJ

Lims ID: IC L7 Lab Sample ID:

Client ID:

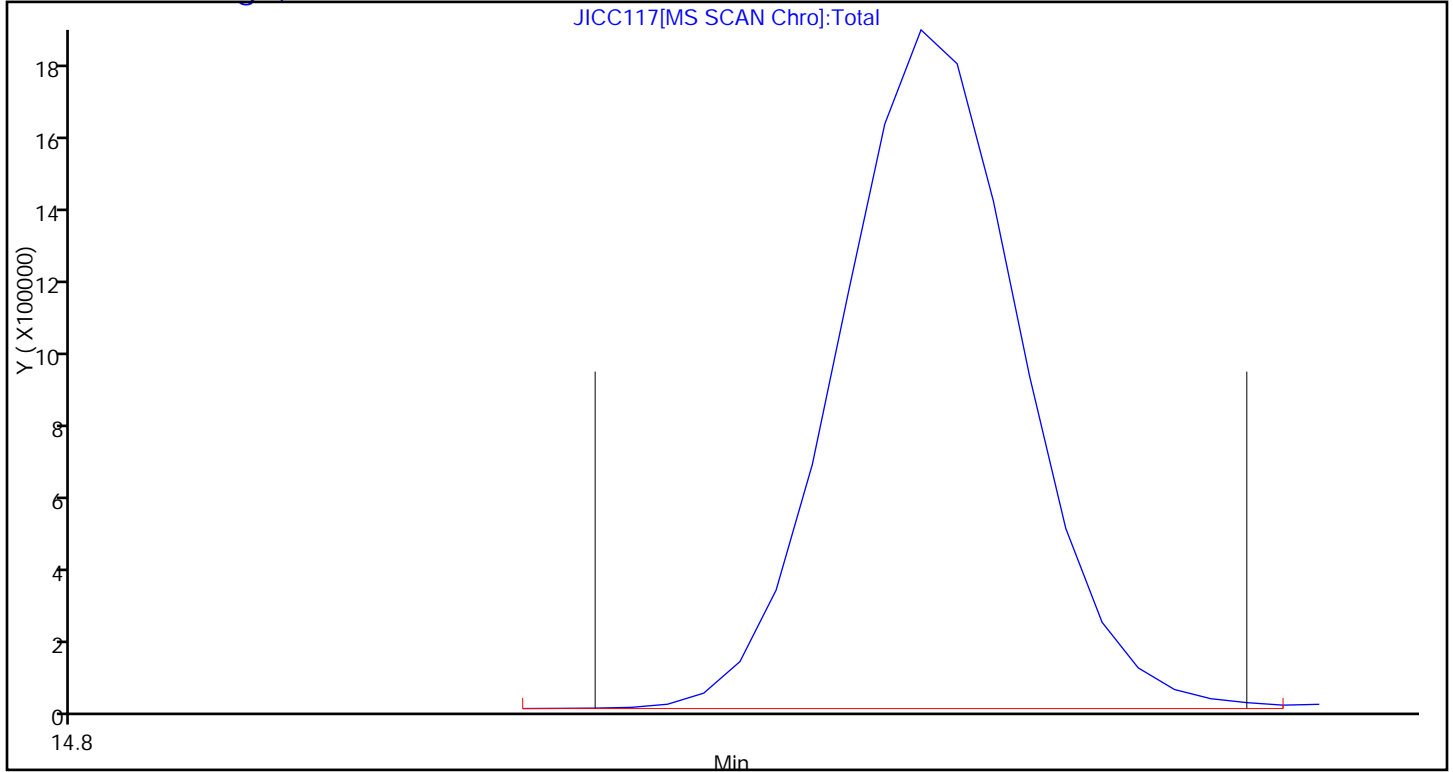
Operator ID: 7126 ALS Bottle#: 13 Worklist Smp#: 8

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D
 Lims ID: IC L8 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Mar-2014 19:02:30 ALS Bottle#: 14 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL8,,1,8,,ICAL 8
 Misc. Info.: J031114I,TO15,,140-0000516-009
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:50 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.397	9.392	0.005	91	318482	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.547	0.002	92	1412691	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1299560	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.825	0.002	89	938909	4.08	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	97	267278	8.13	
7 Propene	41	3.969	3.973	-0.004	99	770175	7.89	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	99	2653935	8.41	
9 Chloromethane	52	4.228	4.230	-0.002	98	285173	7.96	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.238	4.238	0.0	88	2110535	8.86	
11 Acetaldehyde	44	4.400	4.398	0.002	96	1285979	40.9	
12 Vinyl chloride	62	4.416	4.419	-0.003	99	984783	8.34	
14 Butadiene	54	4.518	4.517	0.001	68	680934	8.30	
13 Butane	43	4.518	4.517	0.001	85	1303426	7.76	
15 Bromomethane	94	4.873	4.871	0.002	99	1011303	8.42	
16 Chloroethane	64	5.029	5.027	0.002	99	455037	8.38	
17 Ethanol	31	5.126	5.122	0.004	94	988374	38.7	
18 Vinyl bromide	106	5.357	5.357	0.0	98	901463	8.83	
19 2-Methylbutane	43	5.411	5.411	0.0	92	1083786	8.01	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	99	2393900	8.64	
21 Acrolein	56	5.648	5.650	-0.002	51	250642	9.64	
22 Acetonitrile	40	5.718	5.720	-0.002	99	251140	8.75	
23 Acetone	58	5.772	5.776	-0.004	77	235590	5.20	
24 Isopropyl alcohol	45	5.858	5.858	0.0	98	1005537	8.41	
25 Pentane	72	5.884	5.884	0.0	98	151771	8.86	
26 Ethyl ether	31	6.051	6.059	-0.008	94	699710	8.40	
27 1,1-Dichloroethene	96	6.401	6.399	0.002	98	763429	8.54	
28 2-Methyl-2-propanol	59	6.482	6.487	-0.005	94	1230118	8.35	
29 Acrylonitrile	53	6.498	6.498	0.0	92	432058	9.13	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	96	1646524	8.57	
31 Methylene Chloride	84	6.761	6.759	0.002	94	670417	7.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.783	6.778	0.005	94	664240	7.49	
33 Carbon disulfide	76	6.944	6.942	0.002	99	2556516	8.53	
34 trans-1,2-Dichloroethene	96	7.611	7.609	0.002	99	850575	7.90	
35 2-Methylpentane	43	7.633	7.631	0.002	96	1918287	7.81	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	1374295	8.45	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	100	1269839	7.56	
38 Vinyl acetate	43	8.138	8.141	-0.003	100	1340341	9.10	
39 2-Butanone (MEK)	72	8.596	8.601	-0.005	100	243895	8.09	
40 Hexane	56	8.644	8.642	0.002	90	651848	7.61	
41 cis-1,2-Dichloroethene	96	9.053	9.052	0.001	94	706076	7.68	
42 Ethyl acetate	43	9.225	9.229	-0.004	99	1084225	8.26	
43 Chloroform	83	9.408	9.403	0.005	97	1379316	7.43	
44 Tetrahydrofuran	42	9.806	9.816	-0.010	93	599765	8.13	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	1426505	7.38	
46 1,2-Dichloroethane	62	10.548	10.547	0.001	96	840072	7.67	
47 n-Butanol	31	10.947	10.958	-0.011	86	287181	9.30	
48 Benzene	78	11.033	11.033	0.0	97	1886757	7.78	
49 Cyclohexane	69	11.043	11.040	0.003	90	372992	7.80	
50 Carbon tetrachloride	117	11.060	11.059	0.001	99	1616119	8.07	
51 2,3-Dimethylpentane	71	11.151	11.148	0.003	92	450381	7.88	
52 Thiophene	84	11.302	11.297	0.005	96	1166754	7.79	
53 Isooctane	57	11.775	11.771	0.004	98	3277019	7.92	
54 n-Heptane	71	12.130	12.130	0.0	91	706282	8.24	
55 1,2-Dichloropropane	63	12.216	12.214	0.002	85	610860	7.46	
56 Trichloroethene	130	12.254	12.252	0.002	96	953846	8.11	
57 Dibromomethane	93	12.334	12.332	0.002	93	853084	7.91	
59 Dichlorobromomethane	83	12.474	12.472	0.002	99	1438067	8.41	
58 1,4-Dioxane	88	12.474	12.483	-0.009	36	263409	8.97	
60 Methyl methacrylate	41	12.544	12.548	-0.004	91	682355	9.28	
61 Methylcyclohexane	83	13.012	13.013	-0.001	96	1256319	7.70	
62 4-Methyl-2-pentanone (MIBK)	43	13.378	13.382	-0.004	97	1423315	9.61	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	94	928432	7.99	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	97	879585	8.17	
65 Toluene	91	14.266	14.262	0.004	94	1869974	7.76	
66 1,1,2-Trichloroethane	83	14.330	14.328	0.002	96	586633	7.68	
67 2-Methylthiophene	97	14.416	14.413	0.003	97	1636492	7.55	
68 3-Methylthiophene	97	14.615	14.612	0.003	99	1654764	7.61	
69 2-Hexanone	58	14.691	14.694	-0.003	94	755508	9.57	
70 n-Octane	85	14.927	14.928	-0.001	92	718344	8.12	
71 Chlorodibromomethane	129	15.030	15.027	0.003	95	1496245	8.87	
72 Ethylene Dibromide	107	15.320	15.317	0.003	98	1055365	8.06	
73 Tetrachloroethene	129	15.395	15.393	0.002	95	851426	7.58	
75 Chlorobenzene	112	16.256	16.256	0.0	92	1616541	7.85	
74 2,3-Dimethylheptane	43	16.261	16.260	0.001	91	1960561	7.39	
76 Ethylbenzene	91	16.536	16.536	0.0	98	2251254	8.45	
77 2-Ethylthiophene	97	16.638	16.638	0.0	97	1757131	8.42	
78 m-Xylene & p-Xylene	91	16.697	16.696	0.001	98	3582524	16.7	
79 n-Nonane	57	17.101	17.098	0.003	90	1384118	8.28	
81 Bromoform	173	17.149	17.149	0.0	94	1345387	10.1	
80 Styrene	104	17.160	17.157	0.003	97	1446724	9.80	
82 o-Xylene	91	17.219	17.220	-0.001	97	1860295	8.54	
83 1,1,2,2-Tetrachloroethane	83	17.536	17.534	0.002	99	1658051	9.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.692	17.690	0.002	97	398010	9.32	
85 Isopropylbenzene	105	17.795	17.793	0.002	96	2789508	8.99	
86 N-Propylbenzene	120	18.311	18.310	0.001	99	814479	9.95	
87 2-Chlorotoluene	126	18.359	18.357	0.002	96	748591	8.76	
88 4-Ethyltoluene	105	18.456	18.454	0.002	97	2848420	9.84	
89 1,3,5-Trimethylbenzene	120	18.526	18.524	0.002	94	1440763	9.90	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	86	1265706	12.1	
91 n-Decane	57	18.795	18.793	0.002	90	1630218	9.15	
92 tert-Butylbenzene	119	18.940	18.937	0.003	88	2882125	10.1	
93 1,2,4-Trimethylbenzene	105	18.951	18.949	0.002	90	2560408	10.1	
94 sec-Butylbenzene	105	19.199	19.196	0.003	97	3698797	9.99	
95 1,3-Dichlorobenzene	146	19.220	19.217	0.003	98	1658482	10.0	
96 Benzyl chloride	91	19.290	19.288	0.002	99	2044904	10.8	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	95	1570678	10.2	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	87	3044134	10.3	
99 1,2,3-Trimethylbenzene	105	19.408	19.409	-0.001	97	2027503	9.86	
100 Butylcyclohexane	83	19.462	19.460	0.002	95	1999366	8.52	
101 2,3-Dihydroindene	117	19.656	19.653	0.003	90	2414878	10.5	
102 1,2-Dichlorobenzene	146	19.656	19.653	0.003	84	1699055	10.5	
103 n-Butylbenzene	91	19.780	19.777	0.003	97	2897714	10.5	
104 Indene	116	19.780	19.781	-0.001	86	2436478	12.1	
105 Undecane	57	20.070	20.068	0.002	94	1801735	10.0	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.140	20.138	0.002	96	2922288	10.5	
108 1,2,4,5-Tetramethylbenzene	119	20.527	20.525	0.002	97	3137565	11.2	
107 1,2,3,5-Tetramethylbenzene	119	20.581	20.582	-0.001	96	1875036	10.3	
109 1,2,3,4-Tetramethylbenzene	119	21.001	20.998	0.003	97	2444837	10.8	
110 Dodecane	57	21.146	21.148	-0.002	96	1806559	9.72	
111 1,2,4-Trichlorobenzene	180	21.377	21.379	-0.002	92	910586	12.6	
112 Naphthalene	128	21.528	21.527	0.001	99	2216472	10.8	
113 Benzo(b)thiophene	134	21.630	21.631	-0.001	99	1529823	11.0	
114 Hexachlorobutadiene	225	21.727	21.729	-0.002	85	1511092	10.2	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	94	979161	10.5	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	96	1671920	76.9	
117 1-Methylnaphthalene	142	22.582	22.583	-0.001	95	1506542	67.2	
139 Isopropyl ether	45	8.789	8.794	-0.005	97	1812554	NR	
142 Tert-butyl ethyl ether	59	9.483	9.487	-0.004	95	1742738	NR	
140 Tert-amyl methyl ether	73	11.474	11.482	-0.008	92	1719215	NR	
A 118 C6 Range	1	8.639	8.563 -	8.714	0	7329744	7.88	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	4461089	7.59	
A 123 C8 Range	1	14.927	14.879 -	14.976	0	6451566	7.09	
S 124 Xylenes, Total	100				0		25.2	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L8

Lab Sample ID:

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

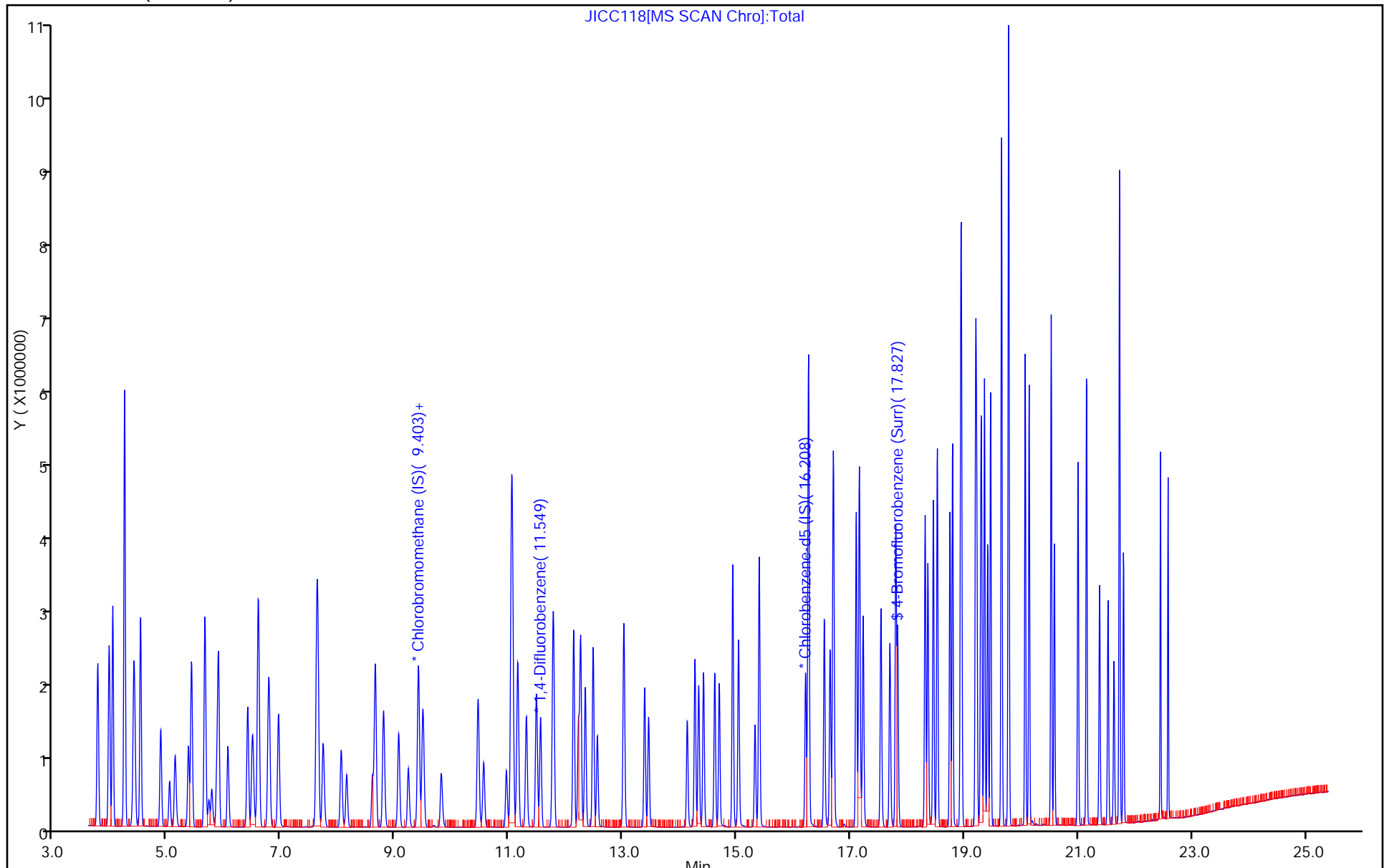
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

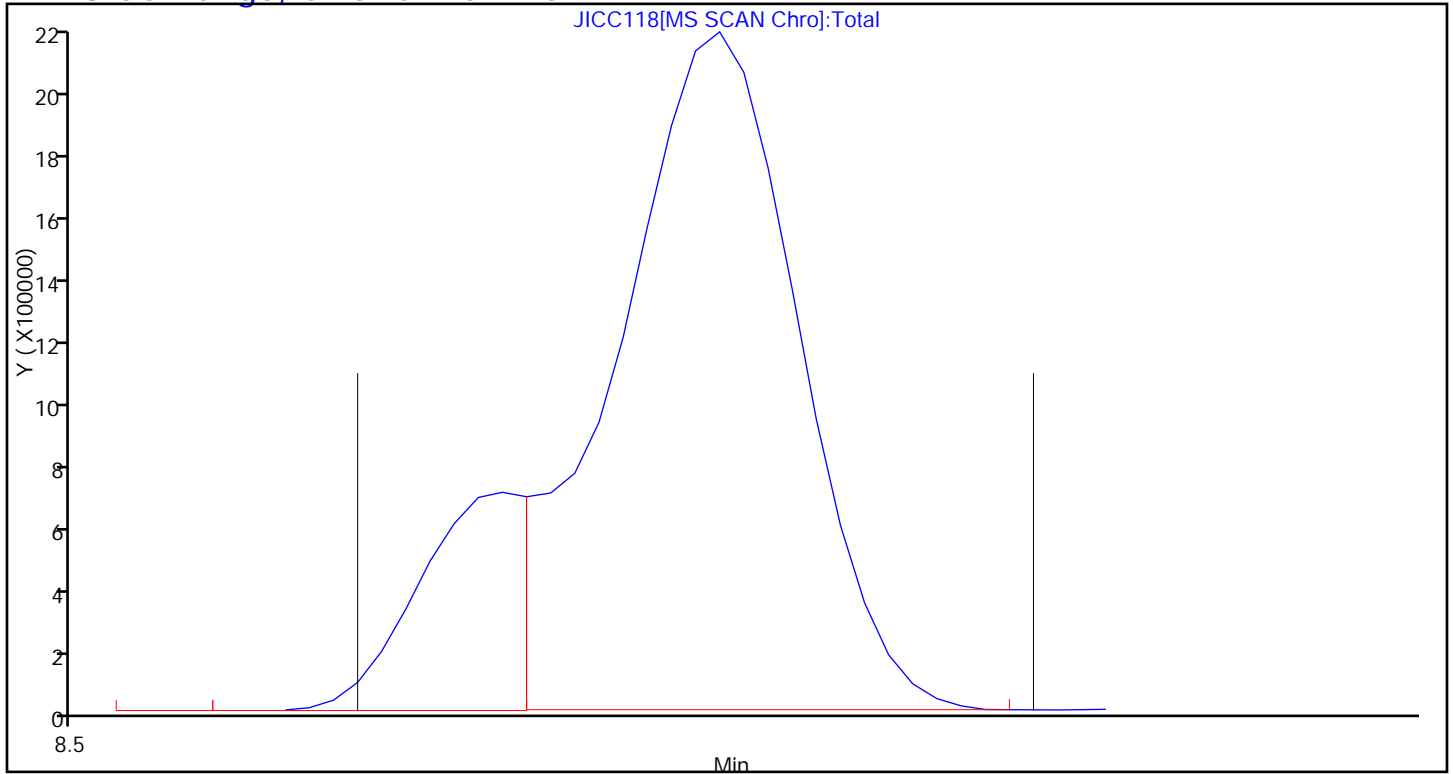
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

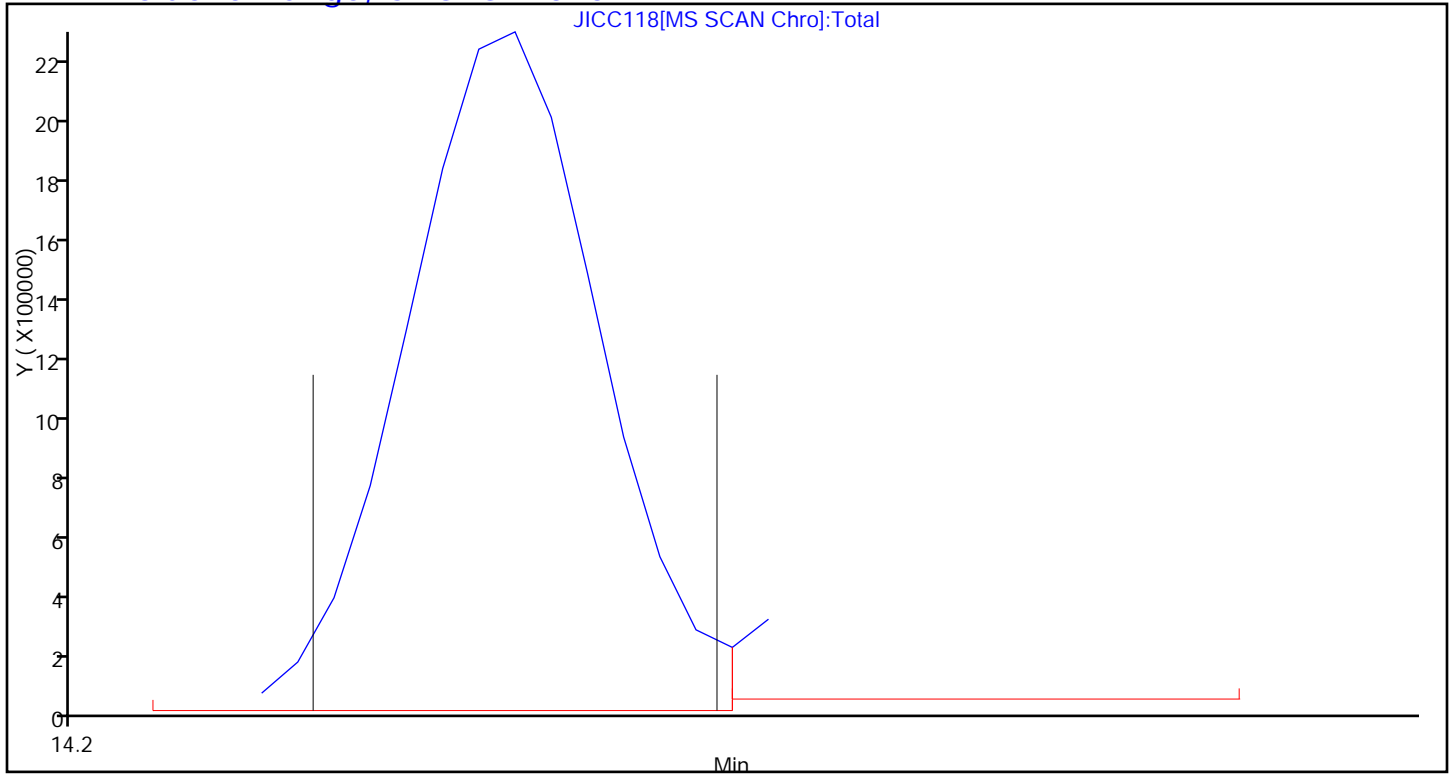
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30 Instrument ID: MJ

Lims ID: IC L8 Lab Sample ID:

Client ID:

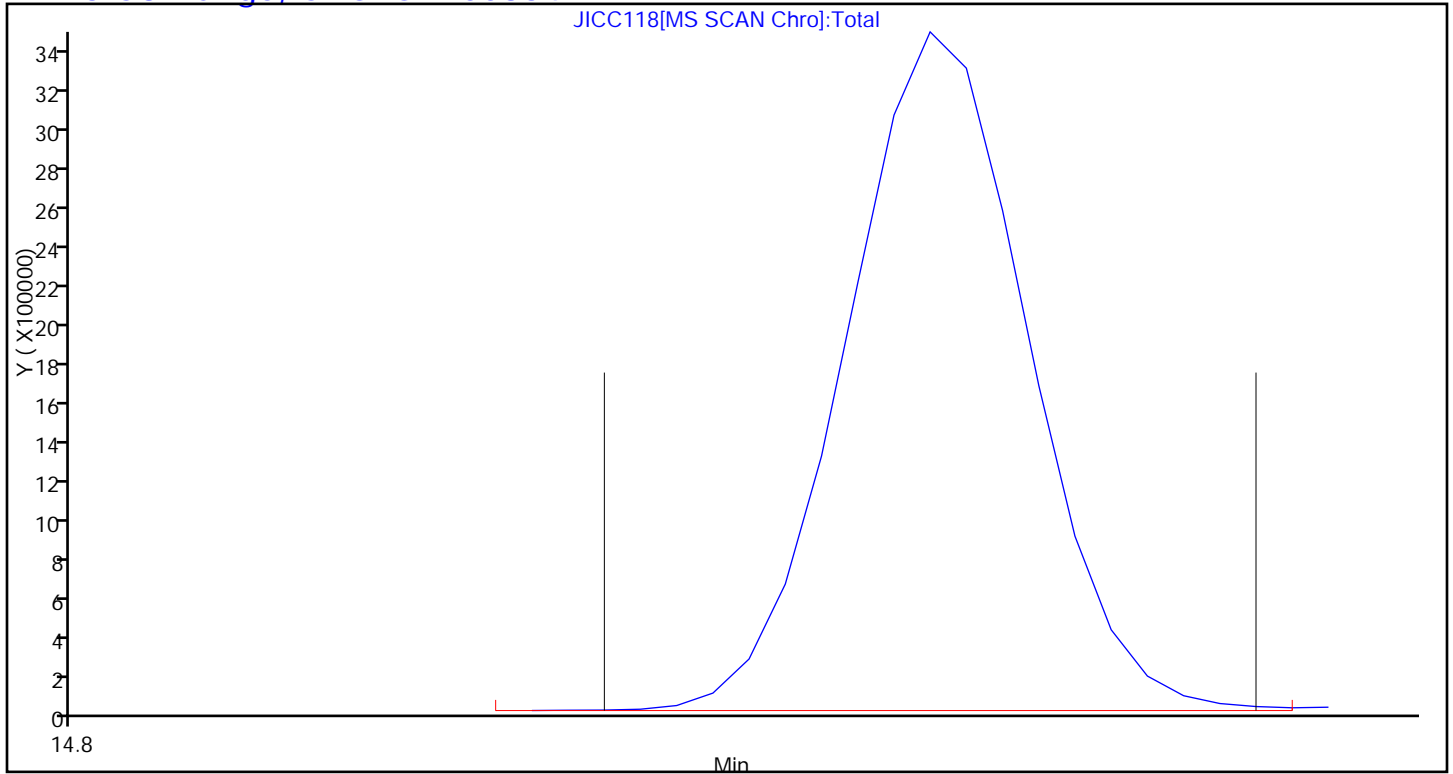
Operator ID: 7126 ALS Bottle#: 14 Worklist Smp#: 9

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Lims ID: IC L9 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 11-Mar-2014 19:57:30 ALS Bottle#: 15 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL9,,1,9,,ICAL 16
 Misc. Info.: J031114I,TO15,,140-0000516-010
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:43 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.392	0.011	95	350824	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.547	0.008	89	1417201	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.208	0.006	86	1302893	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	89	942607	4.09	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	96	505684	14.0	
7 Propene	41	3.970	3.973	-0.003	99	1458925	13.6	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	98	4882515	14.1	
9 Chloromethane	52	4.228	4.230	-0.002	99	494916	12.5	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	85	3992171	15.2	
11 Acetaldehyde	44	4.401	4.398	0.003	96	2205919	63.7	
12 Vinyl chloride	62	4.422	4.419	0.003	99	1770210	13.6	
14 Butadiene	54	4.519	4.517	0.002	69	1224939	13.6	
13 Butane	43	4.519	4.517	0.002	84	2267439	12.3	
15 Bromomethane	94	4.874	4.871	0.003	99	1918491	14.5	
16 Chloroethane	64	5.030	5.027	0.003	99	852776	14.3	
17 Ethanol	31	5.132	5.122	0.010	93	1841235	65.4	
18 Vinyl bromide	106	5.363	5.357	0.006	99	1753642	15.6	
19 2-Methylbutane	43	5.417	5.411	0.006	91	1976924	13.3	
20 Trichlorofluoromethane	101	5.654	5.647	0.007	99	4559353	14.9	
21 Acrolein	56	5.654	5.650	0.004	82	437980	15.3	
22 Acetonitrile	40	5.724	5.720	0.004	99	477609	15.1	
23 Acetone	58	5.772	5.776	-0.004	77	454598	9.12	
24 Isopropyl alcohol	45	5.864	5.858	0.006	86	1891993	14.4	
25 Pentane	72	5.891	5.884	0.007	98	289822	15.4	
26 Ethyl ether	31	6.057	6.059	-0.002	95	1293462	14.1	
27 1,1-Dichloroethene	96	6.407	6.399	0.008	100	1499326	15.2	
28 2-Methyl-2-propanol	59	6.493	6.487	0.006	94	2357157	14.5	
29 Acrylonitrile	53	6.504	6.498	0.006	94	846522	16.2	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	97	3210350	15.2	
31 Methylene Chloride	84	6.767	6.759	0.008	92	1306630	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.789	6.778	0.011	94	1253863	12.8	
33 Carbon disulfide	76	6.945	6.942	0.003	99	4789123	14.5	
34 trans-1,2-Dichloroethene	96	7.617	7.609	0.008	96	1705804	14.4	
35 2-Methylpentane	43	7.639	7.631	0.008	92	3402713	12.6	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	2584260	14.4	
37 1,1-Dichloroethane	63	8.048	8.041	0.007	100	2513809	13.6	
38 Vinyl acetate	43	8.145	8.141	0.004	100	2572051	15.9	
39 2-Butanone (MEK)	72	8.597	8.601	-0.005	100	487204	14.7	
40 Hexane	56	8.650	8.642	0.008	90	1264226	13.4	
41 cis-1,2-Dichloroethene	96	9.059	9.052	0.007	93	1451411	14.3	
42 Ethyl acetate	43	9.231	9.229	0.002	99	2092150	14.5	
43 Chloroform	83	9.414	9.403	0.011	97	2790275	13.6	
44 Tetrahydrofuran	42	9.807	9.816	-0.009	93	1179659	14.5	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	2968435	13.9	
46 1,2-Dichloroethane	62	10.555	10.547	0.008	95	1727411	15.7	
47 n-Butanol	31	10.958	10.958	0.0	86	562689	18.2	
48 Benzene	78	11.039	11.033	0.006	97	3816101	15.7	
49 Cyclohexane	69	11.044	11.040	0.004	82	734107	15.3	
50 Carbon tetrachloride	117	11.060	11.059	0.001	98	3477511	17.3	
51 2,3-Dimethylpentane	71	11.152	11.148	0.004	91	895905	15.6	
52 Thiophene	84	11.302	11.297	0.005	95	2407949	16.0	
53 Isooctane	57	11.776	11.771	0.005	97	6188593	14.9	
54 n-Heptane	71	12.136	12.130	0.006	89	1414497	16.4	
55 1,2-Dichloropropane	63	12.222	12.214	0.008	90	1374081	16.7	
56 Trichloroethene	130	12.260	12.252	0.008	94	2020928	17.1	
57 Dibromomethane	93	12.341	12.332	0.009	95	1782109	16.5	
59 Dichlorobromomethane	83	12.475	12.472	0.003	99	2968189	17.3	
58 1,4-Dioxane	88	12.475	12.483	-0.008	55	535040	18.2	
60 Methyl methacrylate	41	12.550	12.548	0.002	89	1312475	17.8	
61 Methylcyclohexane	83	13.018	13.013	0.005	97	2529310	15.5	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	97	2713031	18.3	
63 cis-1,3-Dichloropropene	75	13.454	13.448	0.006	92	2069482	17.7	
64 trans-1,3-Dichloropropene	75	14.132	14.126	0.006	97	1963516	18.2	
65 Toluene	91	14.266	14.262	0.004	92	4086312	16.9	
66 1,1,2-Trichloroethane	83	14.331	14.328	0.003	97	1314579	17.2	
67 2-Methylthiophene	97	14.417	14.413	0.004	96	3652163	16.8	
68 3-Methylthiophene	97	14.616	14.612	0.004	98	3714685	17.0	
69 2-Hexanone	58	14.697	14.694	0.003	95	1451418	18.3	
70 n-Octane	85	14.934	14.928	0.006	89	1469379	16.6	
71 Chlorodibromomethane	129	15.036	15.027	0.009	94	3347546	19.8	
72 Ethylene Dibromide	107	15.321	15.317	0.004	98	2473337	18.8	
73 Tetrachloroethene	129	15.396	15.393	0.003	97	1888055	16.8	
75 Chlorobenzene	112	16.262	16.256	0.006	97	3736744	18.1	
74 2,3-Dimethylheptane	43	16.268	16.260	0.008	85	3283977	12.3	
76 Ethylbenzene	91	16.542	16.536	0.006	97	4621160	17.3	
77 2-Ethylthiophene	97	16.644	16.638	0.006	96	3695934	17.7	
78 m-Xylene & p-Xylene	91	16.703	16.696	0.007	96	7138010	33.1	
79 n-Nonane	57	17.101	17.098	0.003	85	2746405	16.4	
81 Bromoform	173	17.155	17.149	0.006	95	3400531	25.5	
80 Styrene	104	17.161	17.157	0.004	96	3101488	21.0	
82 o-Xylene	91	17.225	17.220	0.005	99	3743538	17.1	
83 1,1,2,2-Tetrachloroethane	83	17.537	17.534	0.003	99	3301073	18.5	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.693	17.690	0.003	96	836915	19.6	
85 Isopropylbenzene	105	17.801	17.793	0.008	95	5530866	17.8	
86 N-Propylbenzene	120	18.312	18.310	0.002	97	1741082	21.2	
87 2-Chlorotoluene	126	18.360	18.357	0.003	93	1667404	19.5	
88 4-Ethyltoluene	105	18.457	18.454	0.003	96	5599605	19.3	
89 1,3,5-Trimethylbenzene	120	18.527	18.524	0.003	95	3015712	20.7	
90 Alpha Methyl Styrene	118	18.748	18.745	0.003	86	2701607	25.8	
91 n-Decane	57	18.796	18.793	0.003	91	3036195	17.0	
92 tert-Butylbenzene	119	18.941	18.937	0.004	89	5759135	20.2	
93 1,2,4-Trimethylbenzene	105	18.952	18.949	0.003	89	5045591	19.9	
94 sec-Butylbenzene	105	19.199	19.196	0.003	96	7092519	19.1	
95 1,3-Dichlorobenzene	146	19.221	19.217	0.004	95	3841334	23.1	
96 Benzyl chloride	91	19.291	19.288	0.003	95	4188073	22.2	
97 1,4-Dichlorobenzene	146	19.307	19.302	0.005	94	3642996	23.5	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	84	5986441	20.1	
99 1,2,3-Trimethylbenzene	105	19.415	19.409	0.006	96	3990183	19.4	
100 Butylcyclohexane	83	19.463	19.460	0.003	96	4012634	17.1	
101 2,3-Dihydroindene	117	19.657	19.653	0.004	90	4915942	21.3	
102 1,2-Dichlorobenzene	146	19.657	19.653	0.004	89	3809042	23.4	
103 n-Butylbenzene	91	19.780	19.777	0.003	95	5428724	19.7	
104 Indene	116	19.786	19.781	0.005	88	4978609	24.6	
105 Undecane	57	20.071	20.068	0.003	91	3299916	18.3	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	91	5841120	20.9	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	94	6339016	22.6	
107 1,2,3,5-Tetramethylbenzene	119	20.587	20.582	0.005	95	3871454	21.1	
109 1,2,3,4-Tetramethylbenzene	119	21.002	20.998	0.004	94	5109192	22.5	
110 Dodecane	57	21.152	21.148	0.004	96	3052464	16.4	
111 1,2,4-Trichlorobenzene	180	21.384	21.379	0.005	93	2137430	29.5	
112 Naphthalene	128	21.529	21.527	0.002	98	4750981	23.2	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	3355982	24.2	
114 Hexachlorobutadiene	225	21.733	21.729	0.004	82	3388138	22.9	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	95	2025463	21.7	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	96	969606	44.5	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	96	616839	27.4	
139 Isopropyl ether	45	8.796	8.794	0.002	96	3380667	NR	
142 Tert-butyl ethyl ether	59	9.484	9.487	-0.003	94	3237327	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	93	3205213	NR	
A 118 C6 Range	1	8.635	8.553 -	8.736	0	14110311	13.8	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	9697293	16.5	
A 123 C8 Range	1	14.928	14.880 -	14.977	0	12490633	13.7	
S 124 Xylenes, Total	100				0		50.3	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L9

Lab Sample ID:

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

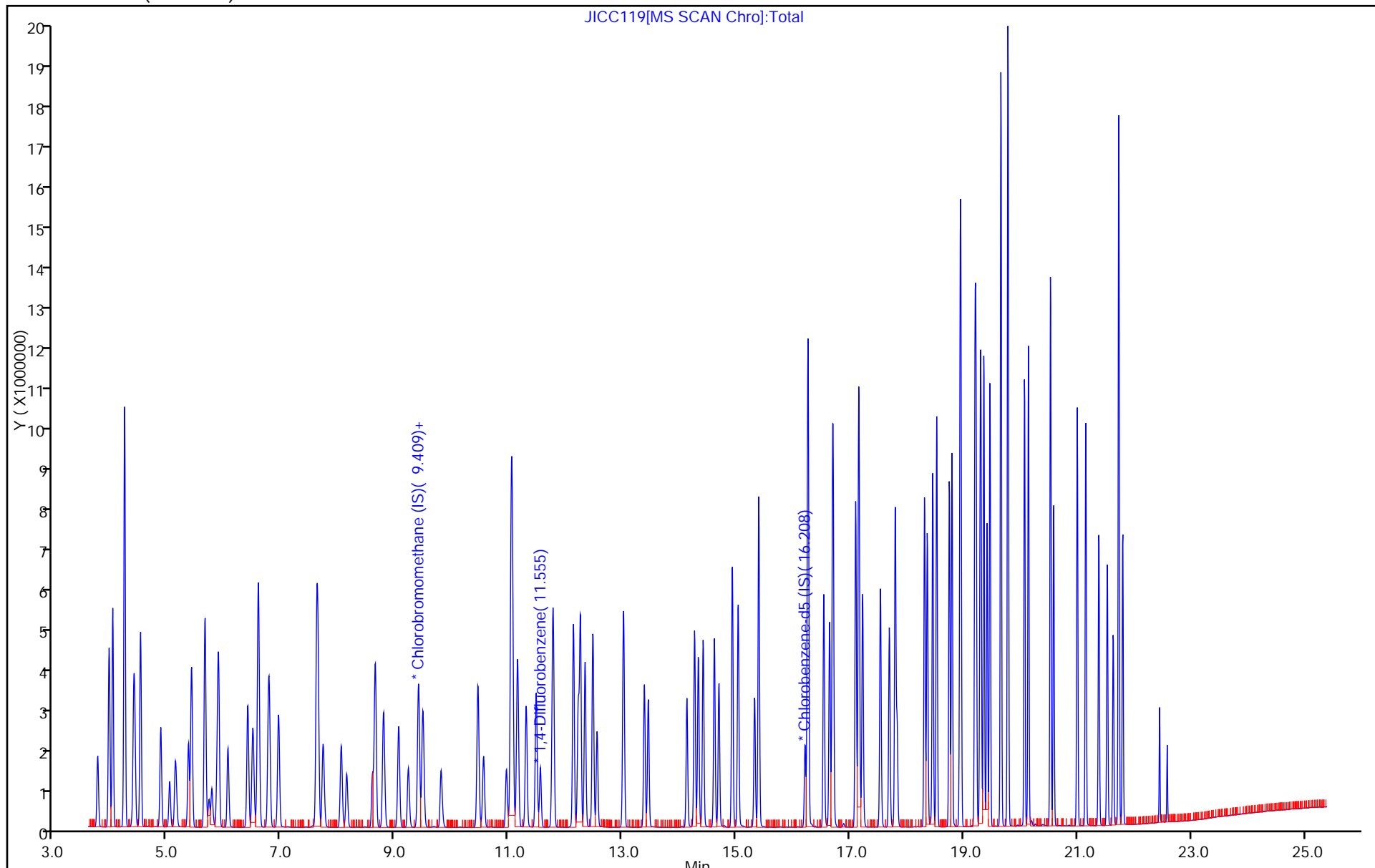
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

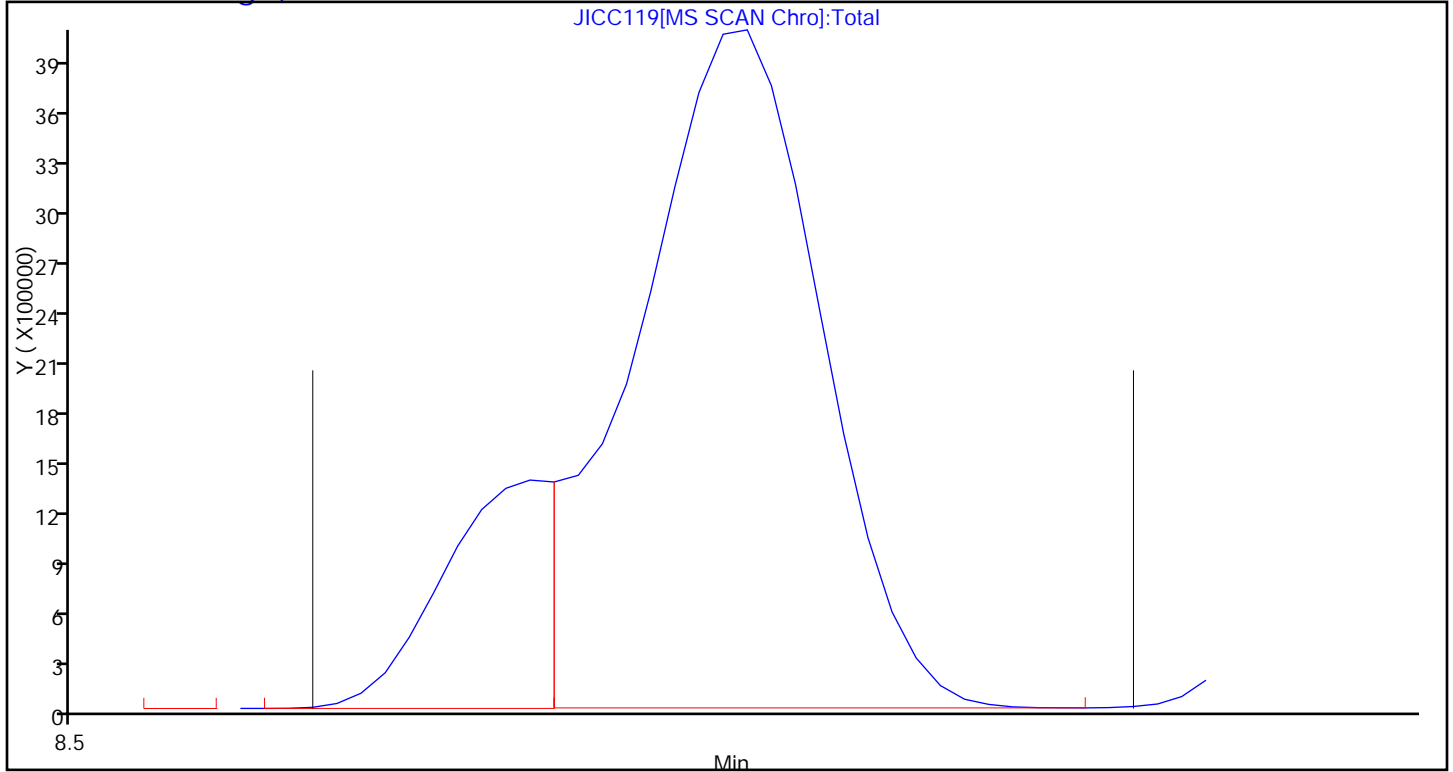
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

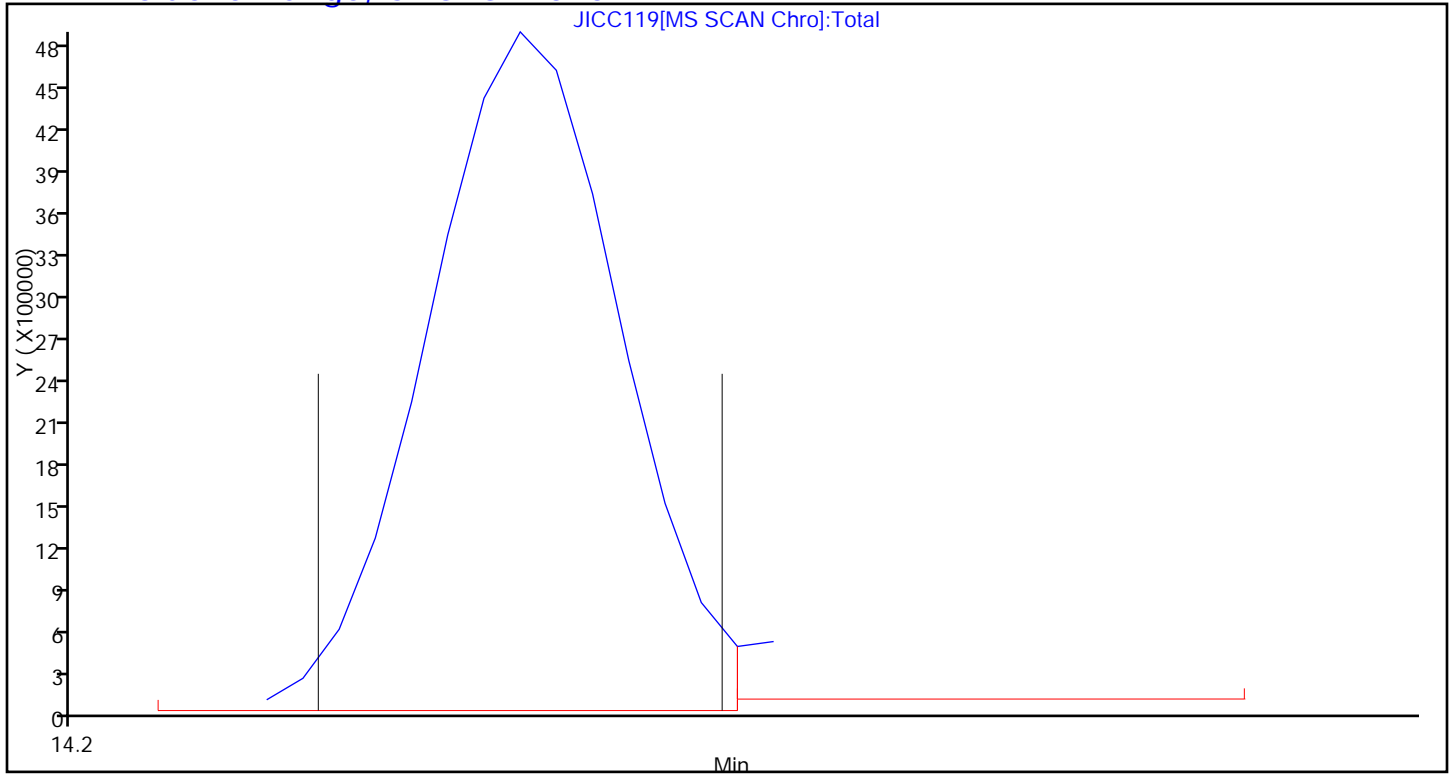
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Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 122 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30 Instrument ID: MJ

Lims ID: IC L9 Lab Sample ID:

Client ID:

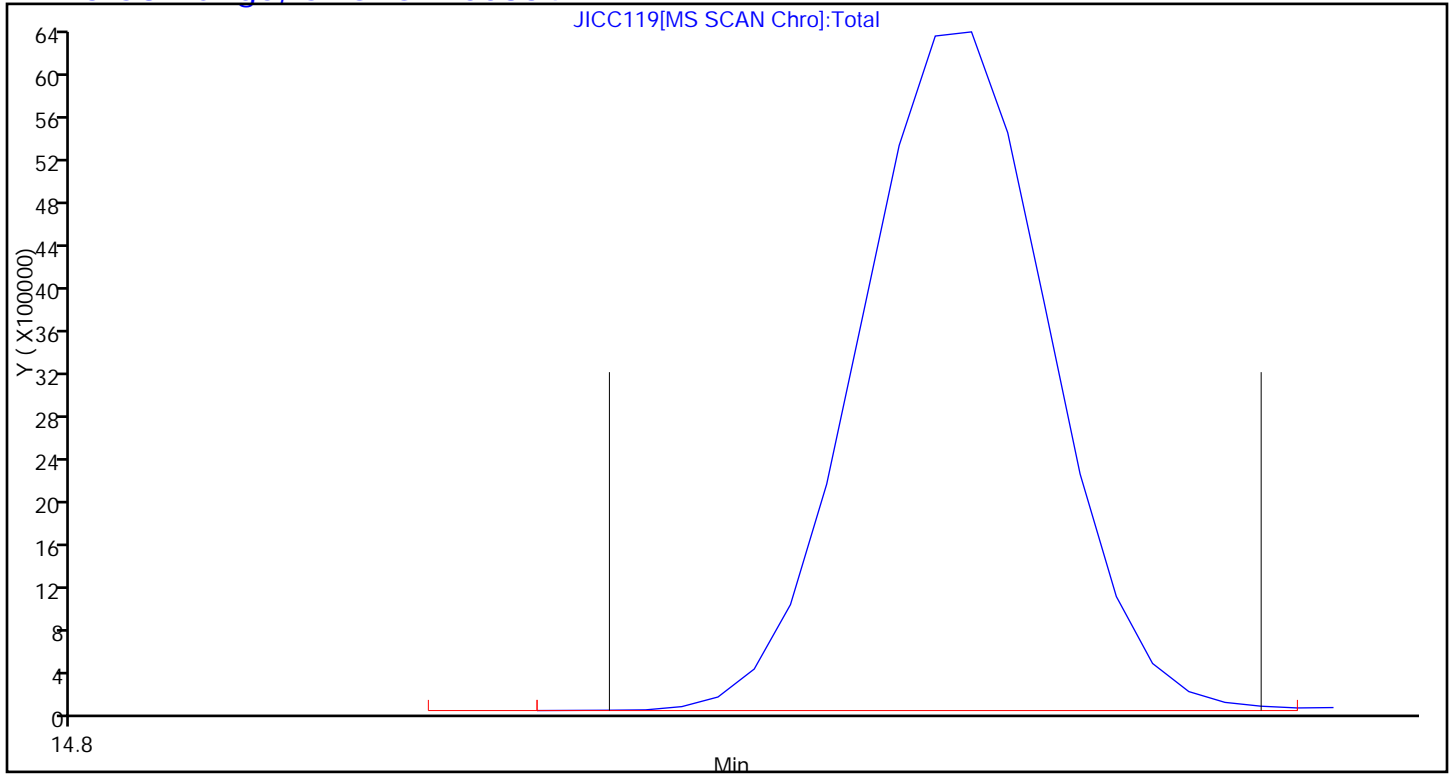
Operator ID: 7126 ALS Bottle#: 15 Worklist Smp#: 10

Purge Vol: 500.000 mL Dil. Factor: 1.0000

Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm) Detector MS SCAN

A 123 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.3927		1.90	2.00	-4.9	35.0
Propene	Ave	1.227	1.098		1.79	2.00	-10.4	35.0
Dichlorodifluoromethane	Ave	3.962	3.635		1.83	2.00	-8.3	35.0
Chloromethane	Ave	0.4501	0.4065		1.81	2.00	-9.7	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.017		2.02	2.00	0.9	35.0
Acetaldehyde	Ave	0.3947	0.3532		8.95	10.0	-10.5	80.0
Vinyl chloride	Ave	1.483	1.396		1.88	2.00	-5.9	35.0
1,3-Butadiene	Ave	1.030	1.004		1.95	2.00	-2.6	35.0
Butane	Ave	2.110	1.870		1.77	2.00	-11.4	35.0
Bromomethane	Ave	1.508	1.386		1.84	2.00	-8.1	35.0
Chloroethane	Ave	0.6822	0.6020		1.76	2.00	-11.8	35.0
Ethanol	Ave	0.3211	0.2779		8.65	10.0	-13.5	80.0
Vinyl bromide	Ave	1.283	1.299		2.03	2.00	1.3	35.0
2-Methylbutane	Ave	1.699	1.599		1.88	2.00	-5.9	35.0
Acrolein	Ave	0.3266	0.2252		1.38	2.00	-31.0	35.0
Trichlorofluoromethane	Ave	3.481	3.332		1.91	2.00	-4.3	35.0
Acetonitrile	Ave	0.3607	0.3021		1.68	2.00	-16.2	35.0
Acetone	Ave	0.5686	0.4096		1.44	2.00	-28.0	35.0
Isopropyl alcohol	Ave	1.501	1.466		1.95	2.00	-2.4	35.0
Pentane	Ave	0.2152	0.2069		1.92	2.00	-3.9	35.0
Ethyl ether	Ave	1.047	0.8811		1.68	2.00	-15.8	35.0
1,1-Dichloroethene	Ave	1.123	1.253		2.23	2.00	11.6	35.0
tert-Butyl alcohol	Ave	1.849	1.758		1.90	2.00	-5.0	35.0
Acrylonitrile	Ave	0.5945	0.5425		1.83	2.00	-8.7	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.678		2.22	2.00	11.1	35.0
Methylene Chloride	Ave	1.070	1.161		2.17	2.00	8.5	35.0
3-Chloropropene	Ave	1.113	1.032		1.86	2.00	-7.2	35.0
Carbon disulfide	Ave	3.763	3.823		2.03	2.00	1.6	35.0
trans-1,2-Dichloroethene	Ave	1.353	1.283		1.90	2.00	-5.1	35.0
2-Methylpentane	Ave	3.087	2.996		1.94	2.00	-2.9	80.0
Methyl tert-butyl ether	Ave	2.042	1.840		1.80	2.00	-9.9	35.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	35.0
Vinyl acetate	Ave	1.849	1.657		1.79	2.00	-10.4	35.0
2-Butanone (MEK)	Ave	0.3786	0.3381		1.79	2.00	-10.7	35.0
Hexane	Ave	1.075	0.9854		1.83	2.00	-8.4	35.0
cis-1,2-Dichloroethene	Ave	1.155	1.171		2.03	2.00	1.4	35.0
Ethyl acetate	Ave	1.649	1.508		1.83	2.00	-8.6	35.0
Chloroform	Ave	2.331	2.280		1.96	2.00	-2.2	35.0
Tetrahydrofuran	Ave	0.9265	0.8140		1.76	2.00	-12.1	35.0
1,1,1-Trichloroethane	Ave	2.429	2.357		1.94	2.00	-3.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3053		1.97	2.00	-1.6	35.0
1-Butanol	Ave	0.0874	0.0831		1.90	2.00	-5.0	35.0
Benzene	Ave	0.6863	0.6700		1.95	2.00	-2.4	35.0
Cyclohexane	Ave	0.1354	0.1273		1.88	2.00	-6.0	35.0
Carbon tetrachloride	Ave	0.5669	0.5577		1.97	2.00	-1.6	35.0
2,3-Dimethylpentane	Ave	0.1619	0.1476		1.82	2.00	-8.9	80.0
Thiophene	Ave	0.4238	0.3980		1.88	2.00	-6.1	80.0
2,2,4-Trimethylpentane	Ave	1.172	1.096		1.87	2.00	-6.5	35.0
Heptane	Ave	0.2427	0.2273		1.87	2.00	-6.4	35.0
1,2-Dichloropropane	Ave	0.2320	0.2086		1.80	2.00	-10.1	35.0
Trichloroethene	Ave	0.3329	0.3084		1.85	2.00	-7.4	35.0
Dibromomethane	Ave	0.3053	0.2742		1.80	2.00	-10.2	35.0
Bromodichloromethane	Ave	0.4844	0.4604		1.90	2.00	-5.0	35.0
1,4-Dioxane	Ave	0.0831	0.0721		1.73	2.00	-13.3	35.0
Methyl methacrylate	Ave	0.2081	0.1844		1.77	2.00	-11.4	35.0
Methylcyclohexane	Ave	0.4620	0.4153		1.80	2.00	-10.1	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3620		1.73	2.00	-13.7	35.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2994		1.82	2.00	-9.0	35.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2916		1.76	2.00	-12.0	35.0
Toluene	Ave	0.7420	0.6560		1.77	2.00	-11.6	35.0
1,1,2-Trichloroethane	Ave	0.2352	0.2032		1.73	2.00	-13.6	35.0
2-Methylthiophene	Ave	0.6668	0.5885		1.76	2.00	-11.8	80.0
3-Methylthiophene	Ave	0.6690	0.5758		1.72	2.00	-13.9	80.0
2-Hexanone	Ave	0.2430	0.2176		1.79	2.00	-10.5	35.0
Octane	Ave	0.2723	0.2524		1.85	2.00	-7.3	35.0
Dibromochloromethane	Ave	0.5191	0.4880		1.88	2.00	-6.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3491		1.73	2.00	-13.4	35.0
Tetrachloroethene	Ave	0.3457	0.3028		1.75	2.00	-12.4	35.0
Chlorobenzene	Ave	0.6339	0.5280		1.67	2.00	-16.7	35.0
2,3-Dimethylheptane	Ave	0.8171	0.8009		1.96	2.00	-2.0	80.0
Ethylbenzene	Ave	0.8196	0.7195		1.76	2.00	-12.2	35.0
2-Ethylthiophene	Ave	0.6423	0.5532		1.72	2.00	-13.9	80.0
m-Xylene & p-Xylene	Ave	0.6614	0.5572		3.37	4.00	-15.7	35.0
Nonane	Ave	0.5146	0.4621		1.80	2.00	-10.2	35.0
Bromoform	Ave	0.4101	0.3532		1.72	2.00	-13.9	35.0
Styrene	Ave	0.4542	0.4097		1.80	2.00	-9.8	35.0
o-Xylene	Ave	0.6705	0.5779		1.72	2.00	-13.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4775		1.74	2.00	-12.8	35.0
1,2,3-Trichloropropane	Ave	0.1314	0.1129		1.72	2.00	-14.1	35.0
Isopropylbenzene	Ave	0.9553	0.8094		1.69	2.00	-15.3	35.0
Propylbenzene	Ave	0.2519	0.2135		1.70	2.00	-15.2	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2127		1.62	2.00	-19.1	35.0
4-Ethyltoluene	Ave	0.8909	0.7838		1.76	2.00	-12.0	35.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3817		1.70	2.00	-14.8	35.0
Alpha Methyl Styrene	Ave	0.3209	0.2911		1.81	2.00	-9.3	35.0
Decane	Ave	0.5485	0.4798		1.75	2.00	-12.5	35.0
tert-Butylbenzene	Ave	0.8748	0.7380		1.69	2.00	-15.6	35.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6716		1.73	2.00	-13.6	35.0
sec-Butylbenzene	Ave	1.140	0.9809		1.72	2.00	-14.0	35.0
1,3-Dichlorobenzene	Ave	0.5106	0.3857		1.51	2.00	-24.5	35.0
Benzyl chloride	Ave	0.5802	0.4785		1.65	2.00	-17.5	35.0
1,4-Dichlorobenzene	Ave	0.4752	0.3601		1.52	2.00	-24.2	35.0
4-Isopropyltoluene	Ave	0.9141	0.7905		1.73	2.00	-13.5	35.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5684		1.80	2.00	-10.2	80.0
Butylcyclohexane	Ave	0.7225	0.6145		1.70	2.00	-14.9	80.0
Indane	Ave	0.7098	0.6057		1.71	2.00	-14.7	80.0
1,2-Dichlorobenzene	Ave	0.4994	0.3813		1.53	2.00	-23.6	35.0
Butylbenzene	Ave	0.8482	0.6995		1.65	2.00	-17.5	35.0
Indene	Ave	0.6202	0.5555		1.79	2.00	-10.4	80.0
Undecane	Ave	0.5525	0.4806		1.74	2.00	-13.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7156		1.67	2.00	-16.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7687		1.79	2.00	-10.7	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4782		1.70	2.00	-14.9	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.6065		1.74	2.00	-12.9	80.0
Dodecane	Ave	0.5721	0.5050		1.77	2.00	-11.7	35.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1874		1.69	2.00	-15.7	35.0
Naphthalene	Ave	0.6294	0.5313		1.69	2.00	-15.6	35.0
Benzo (b) thiophene	Ave	0.4265	0.3579		1.68	2.00	-16.1	80.0
Hexachlorobutadiene	Ave	0.4540	0.3272		1.44	2.00	-27.9	35.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2381		1.66	2.00	-17.1	35.0
2-Methylnaphthalene	Ave	0.0669	0.0445		8.32	12.5	-33.5	80.0
1-Methylnaphthalene	Ave	0.0690	0.0474		8.59	12.5	-31.3	80.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7141		4.04	4.00	0.9	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D
 Lims ID: ICV Lab Sample ID: ICV 140-949/14-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Mar-2014 23:33:30 ALS Bottle#: 1 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: LCS/ICV,,3,,
 Misc. Info.: J031114I,TO15,,140-0000516-014
 Operator ID: 7126 Instrument ID: MJ
 Sublist:

Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 12-Mar-2014 06:59:31

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	326764	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	93	1541489	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1315171	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	89	939102	4.04	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	64162	1.90	
7 Propene	41	3.968	3.973	-0.005	99	179454	1.79	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	593826	1.83	
9 Chloromethane	52	4.226	4.230	-0.004	98	66411	1.81	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	492863	2.02	
11 Acetaldehyde	44	4.393	4.398	-0.005	98	288501	8.95	
12 Vinyl chloride	62	4.414	4.419	-0.005	99	228060	1.88	
14 Butadiene	54	4.511	4.517	-0.006	92	164047	1.95	
13 Butane	43	4.517	4.517	0.0	89	305448	1.77	
15 Bromomethane	94	4.866	4.871	-0.005	99	226405	1.84	
16 Chloroethane	64	5.022	5.027	-0.005	99	98352	1.76	
17 Ethanol	31	5.114	5.122	-0.008	94	227027	8.65	
18 Vinyl bromide	106	5.350	5.357	-0.007	97	212311	2.03	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	261226	1.88	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	98	544405	1.91	
21 Acrolein	56	5.641	5.650	-0.009	27	36793	1.38	
22 Acetonitrile	40	5.711	5.720	-0.009	100	49356	1.68	
23 Acetone	58	5.770	5.776	-0.006	84	66917	1.44	
24 Isopropyl alcohol	45	5.845	5.858	-0.013	97	239534	1.95	
25 Pentane	72	5.883	5.884	-0.001	97	33800	1.92	
26 Ethyl ether	31	6.050	6.059	-0.009	93	143950	1.68	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	97	204737	2.23	
28 2-Methyl-2-propanol	59	6.469	6.487	-0.018	94	287155	1.90	
29 Acrylonitrile	53	6.491	6.498	-0.007	94	88630	1.83	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	94	437601	2.22	
31 Methylene Chloride	84	6.760	6.759	0.001	95	189676	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	91	168678	1.86	
33 Carbon disulfide	76	6.937	6.942	-0.005	99	624567	2.03	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	98	209642	1.90	
35 2-Methylpentane	43	7.631	7.631	0.0	95	489470	1.94	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	300567	1.80	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	343423	1.99	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	270800	1.79	
39 2-Butanone (MEK)	72	8.600	8.601	-0.001	100	55244	1.79	
40 Hexane	56	8.643	8.642	0.001	90	160988	1.83	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	95	191302	2.03	
42 Ethyl acetate	43	9.224	9.229	-0.005	97	246331	1.83	
43 Chloroform	83	9.401	9.403	-0.002	88	372507	1.96	
44 Tetrahydrofuran	42	9.810	9.816	-0.006	94	132989	1.76	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	385014	1.94	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	95	235329	1.97	
47 n-Butanol	31	10.945	10.958	-0.013	87	64008	1.90	
48 Benzene	78	11.031	11.033	-0.002	97	516383	1.95	
49 Cyclohexane	69	11.042	11.040	0.002	92	98107	1.88	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	97	429830	1.97	
51 2,3-Dimethylpentane	71	11.144	11.148	-0.004	92	113738	1.82	
52 Thiophene	84	11.300	11.297	0.003	96	306757	1.88	
53 Isooctane	57	11.768	11.771	-0.003	98	844794	1.87	
54 n-Heptane	71	12.129	12.130	-0.001	93	175150	1.87	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	88	160801	1.80	
56 Trichloroethene	130	12.252	12.252	0.0	95	237727	1.85	
57 Dibromomethane	93	12.333	12.332	0.001	91	211308	1.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	354860	1.90	
58 1,4-Dioxane	88	12.478	12.483	-0.005	87	55564	1.73	
60 Methyl methacrylate	41	12.543	12.548	-0.005	91	142117	1.77	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	320093	1.80	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	278989	1.73	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	95	230781	1.82	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	99	191744	1.76	
65 Toluene	91	14.264	14.262	0.002	93	431398	1.77	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	133590	1.73	
67 2-Methylthiophene	97	14.415	14.413	0.002	98	386959	1.76	
68 3-Methylthiophene	97	14.608	14.612	-0.004	99	378623	1.72	
69 2-Hexanone	58	14.689	14.694	-0.005	93	143062	1.79	
70 n-Octane	85	14.926	14.928	-0.002	95	165974	1.85	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	320894	1.88	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	229585	1.73	
73 Tetrachloroethene	129	15.394	15.393	0.001	92	199104	1.75	
75 Chlorobenzene	112	16.255	16.256	-0.001	84	347218	1.67	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	95	526675	1.96	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	473153	1.76	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	97	363744	1.72	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	100	732866	3.37	
79 n-Nonane	57	17.099	17.098	0.001	93	303879	1.80	
81 Bromoform	173	17.148	17.149	-0.001	93	232231	1.72	
80 Styrene	104	17.158	17.157	0.001	98	269410	1.80	
82 o-Xylene	91	17.218	17.220	-0.002	99	380024	1.72	
83 1,1,2,2-Tetrachloroethane	83	17.530	17.534	-0.004	99	313972	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	74208	1.72	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	532274	1.69	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	140408	1.70	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	139891	1.62	
88 4-Ethyltoluene	105	18.455	18.454	0.001	98	515426	1.76	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	92	251020	1.70	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	85	191429	1.81	
91 n-Decane	57	18.788	18.793	-0.005	89	315493	1.75	
92 tert-Butylbenzene	119	18.934	18.937	-0.003	87	485314	1.69	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	92	441617	1.73	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	645034	1.72	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	253635	1.51	
96 Benzyl chloride	91	19.283	19.288	-0.005	98	314626	1.65	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	93	236806	1.52	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	519786	1.73	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	373764	1.80	
100 Butylcyclohexane	83	19.461	19.460	0.001	93	404088	1.70	
101 2,3-Dihydroindene	117	19.649	19.653	-0.004	89	398305	1.71	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	79	250746	1.53	
103 n-Butylbenzene	91	19.773	19.777	-0.004	96	459993	1.65	
104 Indene	116	19.778	19.781	-0.003	86	365312	1.79	
105 Undecane	57	20.069	20.068	0.001	96	316015	1.74	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	97	470558	1.67	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	505503	1.79	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	314467	1.70	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	96	398813	1.74	
110 Dodecane	57	21.145	21.148	-0.003	94	332106	1.77	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	123214	1.69	
112 Naphthalene	128	21.526	21.527	-0.001	99	349347	1.69	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	235321	1.68	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	215146	1.44	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	156570	1.66	
116 2-Methylnaphthalene	142	22.446	22.449	-0.003	97	183079	8.32	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	194988	8.59	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	419583	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	370351	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	93	349396	NR	
A 118 C6 Range	1	8.633	8.553 -	8.736	0	1771274	1.86	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	1044079	1.76	
A 123 C8 Range	1	14.927	14.880 -	14.977	0	1637147	1.78	
S 124 Xylenes, Total	100				0		5.09	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCS11.D

Injection Date: 11-Mar-2014 23:33:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICV

Lab Sample ID: ICV 140-949/14-A

Worklist Smp#: 14

Client ID:

Purge Vol: 500.000 mL

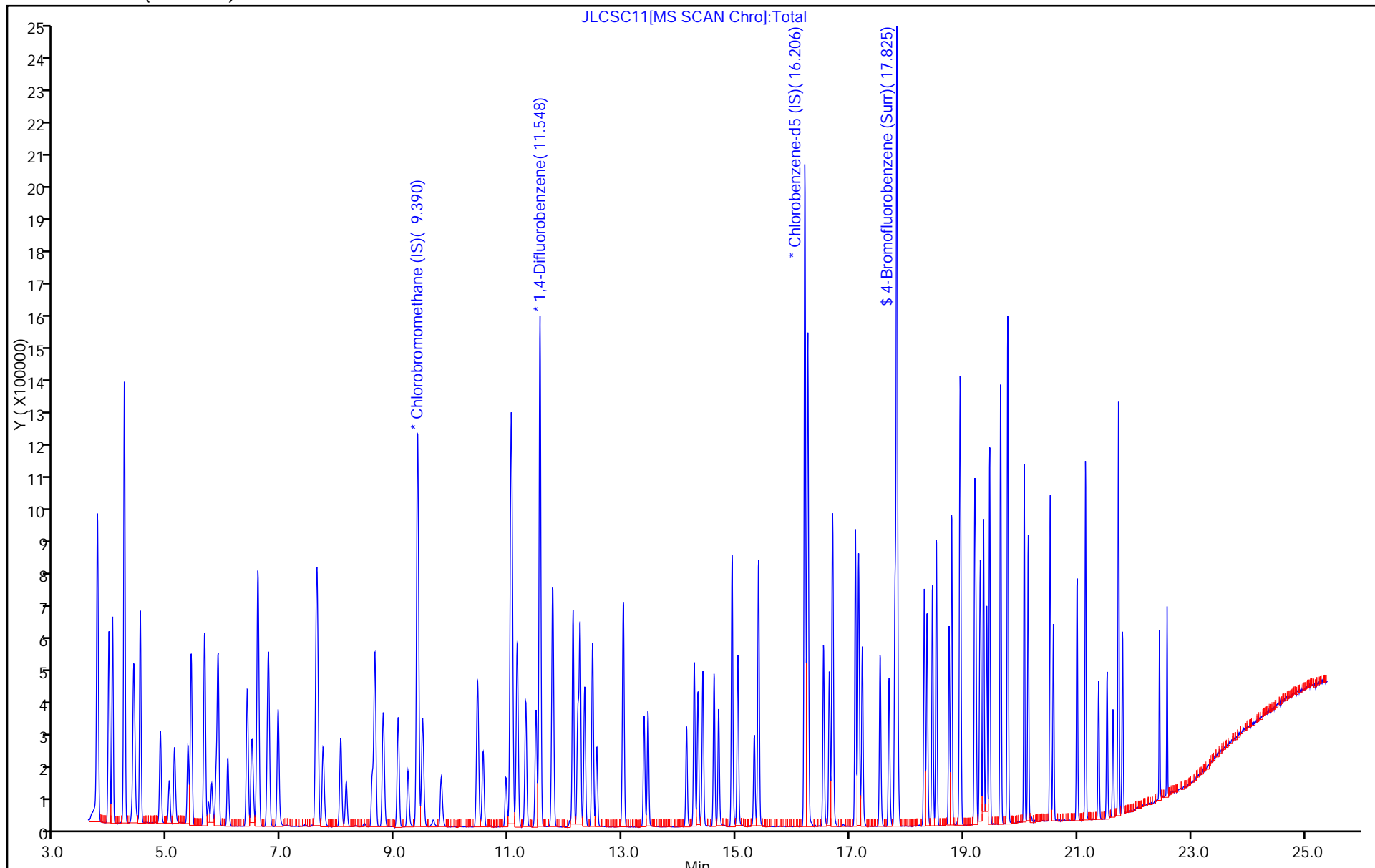
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo (b) thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J032114,TO15,,140-0000540-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 - 8.695		0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 - 14.277		0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 - 14.973		0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21.D

Injection Date: 21-Mar-2014 11:30:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

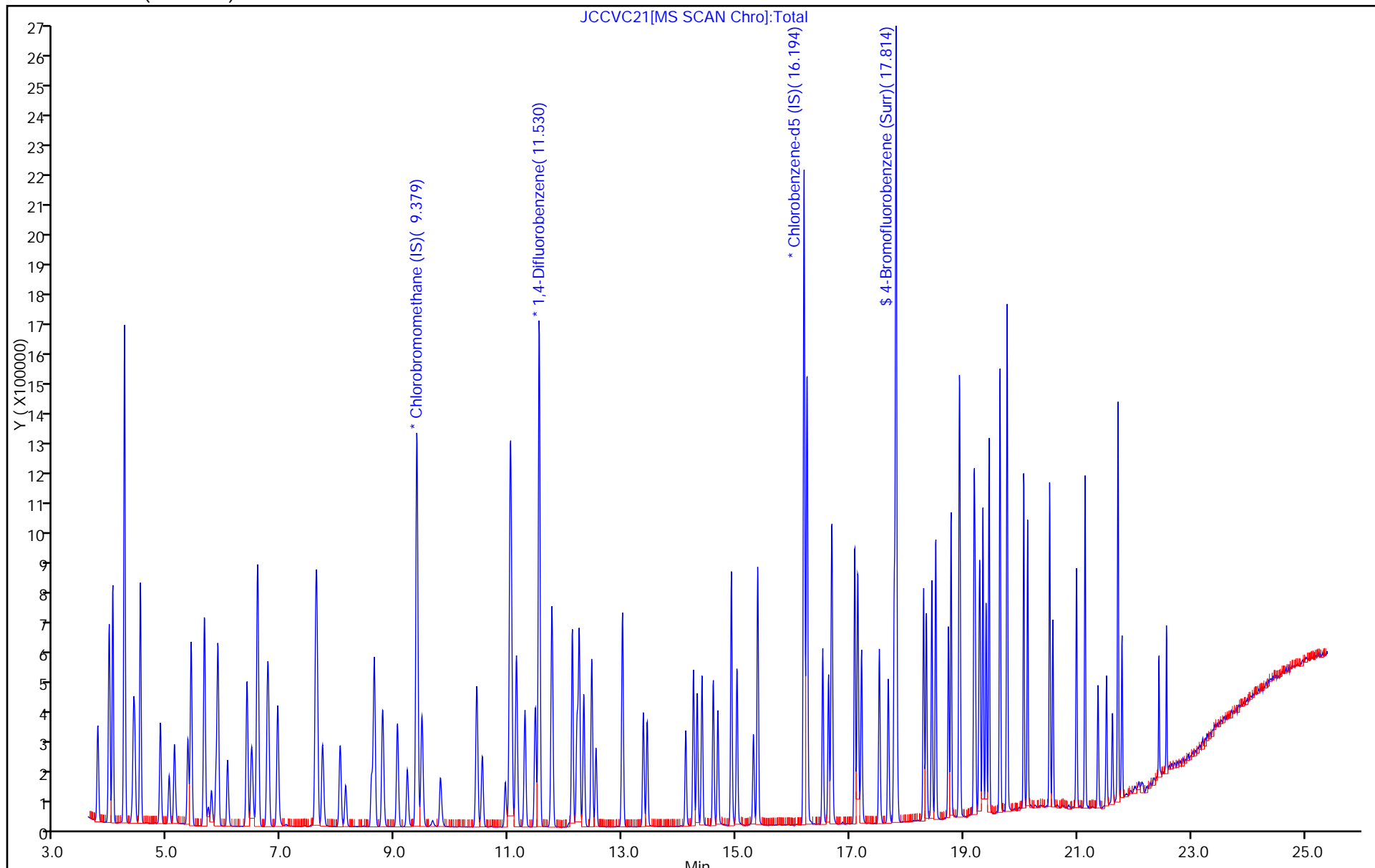
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-1000/2 Calibration Date: 03/24/2014 09:12
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4167		2.02	2.00	0.9	30.0
Propene	Ave	1.227	1.173		1.91	2.00	-4.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.119		2.08	2.00	4.0	30.0
Chloromethane	Ave	0.4501	0.4523		2.01	2.00	0.5	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.238		2.17	2.00	8.3	30.0
Acetaldehyde	Ave	0.3947	0.2879		7.30	10.0	-27.1	50.0
Vinyl chloride	Ave	1.483	1.488		2.01	2.00	0.3	30.0
1,3-Butadiene	Ave	1.030	1.061		2.06	2.00	2.9	30.0
Butane	Ave	2.110	2.085		1.98	2.00	-1.2	30.0
Bromomethane	Ave	1.508	1.451		1.92	2.00	-3.8	30.0
Chloroethane	Ave	0.6822	0.6609		1.94	2.00	-3.1	30.0
Ethanol	Ave	0.3211	0.3080		9.59	10.0	-4.1	50.0
Vinyl bromide	Ave	1.283	1.328		2.07	2.00	3.5	30.0
2-Methylbutane	Ave	1.699	1.627		1.92	2.00	-4.2	30.0
Trichlorofluoromethane	Ave	3.481	3.455		1.99	2.00	-0.8	30.0
Acrolein	Ave	0.3266	0.2057		1.26	2.00	-37.0*	30.0
Acetonitrile	Ave	0.3607	0.2746		1.52	2.00	-23.9	30.0
Acetone	Ave	0.5686	0.3277		1.15	2.00	-42.4*	30.0
Isopropyl alcohol	Ave	1.501	1.359		1.81	2.00	-9.5	30.0
Pentane	Ave	0.2152	0.2051		1.91	2.00	-4.7	30.0
Ethyl ether	Ave	1.047	0.9070		1.73	2.00	-13.3	30.0
1,1-Dichloroethene	Ave	1.123	1.238		2.21	2.00	10.2	30.0
tert-Butyl alcohol	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
Acrylonitrile	Ave	0.5945	0.4805		1.62	2.00	-19.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.728		2.26	2.00	13.1	30.0
Methylene Chloride	Ave	1.070	1.127		2.11	2.00	5.3	30.0
3-Chloropropene	Ave	1.113	0.9911		1.78	2.00	-11.0	30.0
Carbon disulfide	Ave	3.763	3.657		1.94	2.00	-2.8	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.266		1.87	2.00	-6.4	30.0
2-Methylpentane	Ave	3.087	2.966		1.92	2.00	-3.9	50.0
Methyl tert-butyl ether	Ave	2.042	1.942		1.90	2.00	-4.9	30.0
1,1-Dichloroethane	Ave	2.111	2.014		1.91	2.00	-4.6	30.0
Vinyl acetate	Ave	1.849	1.602		1.73	2.00	-13.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.3449		1.82	2.00	-8.9	30.0
Hexane	Ave	1.075	0.9625		1.79	2.00	-10.5	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.139		1.97	2.00	-1.4	30.0
Ethyl acetate	Ave	1.649	1.616		1.96	2.00	-2.0	30.0
Chloroform	Ave	2.331	2.159		1.85	2.00	-7.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8487		1.83	2.00	-8.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.290		1.89	2.00	-5.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-1000/2 Calibration Date: 03/24/2014 09:12
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3040		1.96	2.00	-2.1	30.0
1-Butanol	Ave	0.0874	0.0762		1.74	2.00	-12.9	30.0
Benzene	Ave	0.6863	0.6445		1.88	2.00	-6.1	30.0
Cyclohexane	Ave	0.1354	0.1340		1.98	2.00	-1.0	30.0
Carbon tetrachloride	Ave	0.5669	0.5028		1.77	2.00	-11.3	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1467		1.81	2.00	-9.4	50.0
Thiophene	Ave	0.4238	0.3882		1.83	2.00	-8.4	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.044		1.78	2.00	-10.9	30.0
Heptane	Ave	0.2427	0.2152		1.77	2.00	-11.3	30.0
1,2-Dichloropropane	Ave	0.2320	0.2016		1.74	2.00	-13.1	30.0
Trichloroethene	Ave	0.3329	0.3142		1.89	2.00	-5.6	30.0
Dibromomethane	Ave	0.3053	0.2735		1.79	2.00	-10.4	30.0
Bromodichloromethane	Ave	0.4844	0.4355		1.80	2.00	-10.1	30.0
1,4-Dioxane	Ave	0.0831	0.0713		1.72	2.00	-14.2	30.0
Methyl methacrylate	Ave	0.2081	0.2037		1.96	2.00	-2.1	30.0
Methylcyclohexane	Ave	0.4620	0.4099		1.78	2.00	-11.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3955		1.89	2.00	-5.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2843		1.73	2.00	-13.6	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3088		1.86	2.00	-6.8	30.0
Toluene	Ave	0.7420	0.6808		1.84	2.00	-8.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2144		1.82	2.00	-8.8	30.0
2-Methylthiophene	Ave	0.6668	0.6058		1.82	2.00	-9.1	50.0
3-Methylthiophene	Ave	0.6690	0.6093		1.82	2.00	-8.9	50.0
2-Hexanone	Ave	0.2430	0.2351		1.94	2.00	-3.3	30.0
Octane	Ave	0.2723	0.2510		1.84	2.00	-7.8	30.0
Dibromochloromethane	Ave	0.5191	0.4763		1.84	2.00	-8.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3674		1.82	2.00	-8.8	30.0
Tetrachloroethene	Ave	0.3457	0.3153		1.83	2.00	-8.8	30.0
Chlorobenzene	Ave	0.6339	0.5509		1.74	2.00	-13.1	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7893		1.93	2.00	-3.4	50.0
Ethylbenzene	Ave	0.8196	0.7707		1.88	2.00	-6.0	30.0
2-Ethylthiophene	Ave	0.6423	0.5914		1.84	2.00	-7.9	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5996		3.63	4.00	-9.3	30.0
Nonane	Ave	0.5146	0.4615		1.79	2.00	-10.3	30.0
Bromoform	Ave	0.4101	0.3448		1.68	2.00	-15.9	30.0
Styrene	Ave	0.4542	0.4146		1.83	2.00	-8.7	30.0
o-Xylene	Ave	0.6705	0.6150		1.84	2.00	-8.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.5175		1.89	2.00	-5.5	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1227		1.87	2.00	-6.6	30.0
Isopropylbenzene	Ave	0.9553	0.8764		1.84	2.00	-8.3	30.0
Propylbenzene	Ave	0.2519	0.2326		1.85	2.00	-7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-1000/2 Calibration Date: 03/24/2014 09:12
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC24.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2267		1.73	2.00	-13.8	30.0
4-Ethyltoluene	Ave	0.8909	0.8525		1.91	2.00	-4.3	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.4209		1.88	2.00	-6.0	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3079		1.92	2.00	-4.1	30.0
Decane	Ave	0.5485	0.4947		1.80	2.00	-9.8	30.0
tert-Butylbenzene	Ave	0.8748	0.7993		1.83	2.00	-8.6	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.7298		1.88	2.00	-6.1	30.0
sec-Butylbenzene	Ave	1.140	1.063		1.87	2.00	-6.7	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.4142		1.62	2.00	-18.9	30.0
Benzyl chloride	Ave	0.5802	0.5176		1.79	2.00	-10.8	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3802		1.60	2.00	-20.0	30.0
4-Isopropyltoluene	Ave	0.9141	0.8537		1.87	2.00	-6.6	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.6075		1.92	2.00	-4.0	50.0
Butylcyclohexane	Ave	0.7225	0.6242		1.73	2.00	-13.6	50.0
Indane	Ave	0.7098	0.6474		1.83	2.00	-8.8	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.4053		1.62	2.00	-18.8	30.0
Butylbenzene	Ave	0.8482	0.7564		1.78	2.00	-10.8	30.0
Indene	Ave	0.6202	0.5905		1.91	2.00	-4.8	50.0
Undecane	Ave	0.5525	0.5104		1.85	2.00	-7.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7687		1.79	2.00	-10.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.8103		1.88	2.00	-5.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4984		1.77	2.00	-11.3	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.6382		1.83	2.00	-8.3	50.0
Dodecane	Ave	0.5721	0.4953		1.73	2.00	-13.4	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1910		1.72	2.00	-14.0	30.0
Naphthalene	Ave	0.6294	0.5339		1.70	2.00	-15.2	30.0
Benzo (b) thiophene	Ave	0.4265	0.3589		1.68	2.00	-15.8	50.0
Hexachlorobutadiene	Ave	0.4540	0.3409		1.50	2.00	-24.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2416		1.68	2.00	-15.9	30.0
2-Methylnaphthalene	Ave	0.0669	0.0361		6.75	12.5	-46.0	50.0
1-Methylnaphthalene	Ave	0.0690	0.0395		7.16	12.5	-42.8	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.6980		3.95	4.00	-1.3	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JCCVC24.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 24-Mar-2014 09:12:30 ALS Bottle#: 9 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J032414,TO15,,140-0000545-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140321-545.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 14:35:47 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 14:35:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.374	9.374	0.0	92	408162	4.00	
* 2 1,4-Difluorobenzene	114	11.532	11.532	0.0	93	1808884	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.195	16.195	0.0	86	1461829	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.815	17.815	0.0	91	1020323	3.95	
6 Chlorodifluoromethane	67	3.963	3.963	0.0	97	85075	2.02	
7 Propene	41	3.973	3.973	0.0	99	239422	1.91	
8 Dichlorodifluoromethane	85	4.033	4.033	0.0	100	841137	2.08	
9 Chloromethane	52	4.232	4.232	0.0	99	92363	2.01	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	661086	2.17	
11 Acetaldehyde	44	4.398	4.398	0.0	99	293895	7.30	
12 Vinyl chloride	62	4.420	4.420	0.0	99	303801	2.01	
14 Butadiene	54	4.517	4.517	0.0	92	216590	2.06	
13 Butane	43	4.517	4.517	0.0	91	425834	1.98	
15 Bromomethane	94	4.866	4.866	0.0	99	296218	1.92	
16 Chloroethane	64	5.022	5.022	0.0	100	134958	1.94	
17 Ethanol	31	5.114	5.114	0.0	95	314397	9.59	
18 Vinyl bromide	106	5.350	5.350	0.0	97	271130	2.07	
19 2-Methylbutane	43	5.410	5.410	0.0	93	332229	1.92	
20 Trichlorofluoromethane	101	5.641	5.641	0.0	99	705383	1.99	
21 Acrolein	56	5.646	5.646	0.0	63	42000	1.26	
22 Acetonitrile	40	5.711	5.711	0.0	99	56062	1.52	
23 Acetone	58	5.770	5.770	0.0	91	66911	1.15	
24 Isopropyl alcohol	45	5.845	5.845	0.0	97	277498	1.81	
25 Pentane	72	5.883	5.883	0.0	98	41887	1.91	
26 Ethyl ether	31	6.050	6.050	0.0	92	185207	1.73	
27 1,1-Dichloroethene	96	6.389	6.389	0.0	97	252753	2.21	
28 2-Methyl-2-propanol	59	6.469	6.469	0.0	95	305391	1.62	
29 Acrylonitrile	53	6.486	6.486	0.0	94	98121	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.577	6.577	0.0	95	556930	2.26	
31 Methylene Chloride	84	6.755	6.755	0.0	95	230167	2.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.771	6.771	0.0	94	202368	1.78	
33 Carbon disulfide	76	6.932	6.932	0.0	100	746736	1.94	
34 trans-1,2-Dichloroethene	96	7.599	7.599	0.0	98	258538	1.87	
35 2-Methylpentane	43	7.621	7.621	0.0	95	605666	1.92	
36 Methyl tert-butyl ether	73	7.717	7.717	0.0	96	396514	1.90	
37 1,1-Dichloroethane	63	8.029	8.029	0.0	100	411308	1.91	
38 Vinyl acetate	43	8.126	8.126	0.0	100	327153	1.73	
39 2-Butanone (MEK)	72	8.584	8.584	0.0	98	70424	1.82	
40 Hexane	56	8.627	8.627	0.0	91	196537	1.79	
41 cis-1,2-Dichloroethene	96	9.035	9.035	0.0	95	232508	1.97	
42 Ethyl acetate	43	9.213	9.213	0.0	97	330070	1.96	
43 Chloroform	83	9.385	9.385	0.0	97	440772	1.85	
44 Tetrahydrofuran	42	9.789	9.789	0.0	94	173288	1.83	
45 1,1,1-Trichloroethane	97	10.434	10.434	0.0	97	467645	1.89	
46 1,2-Dichloroethane	62	10.531	10.531	0.0	97	275056	1.96	
47 n-Butanol	31	10.934	10.934	0.0	88	68911	1.74	
48 Benzene	78	11.015	11.015	0.0	97	583229	1.88	
49 Cyclohexane	69	11.026	11.026	0.0	91	121285	1.98	
50 Carbon tetrachloride	117	11.042	11.042	0.0	97	455016	1.77	
51 2,3-Dimethylpentane	71	11.133	11.133	0.0	91	132763	1.81	
52 Thiophene	84	11.284	11.284	0.0	96	351254	1.83	
53 Isooctane	57	11.757	11.757	0.0	98	944631	1.78	
54 n-Heptane	71	12.112	12.112	0.0	93	194734	1.77	
55 1,2-Dichloropropane	63	12.199	12.199	0.0	88	182426	1.74	
56 Trichloroethene	130	12.236	12.236	0.0	93	284324	1.89	
57 Dibromomethane	93	12.317	12.317	0.0	92	247509	1.79	
59 Dichlorobromomethane	83	12.457	12.457	0.0	99	394058	1.80	
58 1,4-Dioxane	88	12.462	12.462	0.0	90	64555	1.72	
60 Methyl methacrylate	41	12.532	12.532	0.0	91	184362	1.96	
61 Methylcyclohexane	83	13.000	13.000	0.0	96	370889	1.78	
62 4-Methyl-2-pentanone (MIBK)	43	13.366	13.366	0.0	98	357930	1.89	
63 cis-1,3-Dichloropropene	75	13.430	13.430	0.0	96	257278	1.73	
64 trans-1,3-Dichloropropene	75	14.108	14.108	0.0	99	225818	1.86	
65 Toluene	91	14.248	14.248	0.0	93	497884	1.84	
66 1,1,2-Trichloroethane	83	14.313	14.313	0.0	97	156809	1.82	
67 2-Methylthiophene	97	14.399	14.399	0.0	98	443052	1.82	
68 3-Methylthiophene	97	14.592	14.592	0.0	99	445607	1.82	
69 2-Hexanone	58	14.678	14.678	0.0	92	171919	1.94	
70 n-Octane	85	14.915	14.915	0.0	95	183565	1.84	
71 Chlorodibromomethane	129	15.012	15.012	0.0	96	348319	1.84	
72 Ethylene Dibromide	107	15.303	15.303	0.0	98	268707	1.82	
73 Tetrachloroethene	129	15.378	15.378	0.0	93	230578	1.83	
75 Chlorobenzene	112	16.244	16.244	0.0	88	402837	1.74	
74 2,3-Dimethylheptane	43	16.249	16.249	0.0	95	577205	1.93	
76 Ethylbenzene	91	16.524	16.524	0.0	98	563639	1.88	
77 2-Ethylthiophene	97	16.626	16.626	0.0	98	432482	1.84	
78 m-Xylene & p-Xylene	91	16.680	16.680	0.0	100	876943	3.63	
79 n-Nonane	57	17.083	17.083	0.0	93	337503	1.79	
81 Bromoform	173	17.137	17.137	0.0	94	252128	1.68	
80 Styrene	104	17.142	17.142	0.0	99	303214	1.83	
82 o-Xylene	91	17.207	17.207	0.0	99	449783	1.84	
83 1,1,2,2-Tetrachloroethane	83	17.519	17.519	0.0	99	378480	1.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.675	17.675	0.0	97	89751	1.87	
85 Isopropylbenzene	105	17.782	17.782	0.0	97	640907	1.84	
86 N-Propylbenzene	120	18.299	18.299	0.0	98	170081	1.85	
87 2-Chlorotoluene	126	18.347	18.347	0.0	97	165788	1.73	
88 4-Ethyltoluene	105	18.439	18.439	0.0	98	623427	1.91	
89 1,3,5-Trimethylbenzene	120	18.509	18.509	0.0	92	307794	1.88	
90 Alpha Methyl Styrene	118	18.735	18.735	0.0	86	225165	1.92	
91 n-Decane	57	18.778	18.778	0.0	89	361791	1.80	
92 tert-Butylbenzene	119	18.923	18.923	0.0	88	584497	1.83	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	95	533730	1.88	
94 sec-Butylbenzene	105	19.186	19.186	0.0	98	777572	1.87	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	302877	1.62	
96 Benzyl chloride	91	19.273	19.273	0.0	98	378521	1.79	
97 1,4-Dichlorobenzene	146	19.289	19.289	0.0	94	278039	1.60	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	624316	1.87	
99 1,2,3-Trimethylbenzene	105	19.396	19.396	0.0	98	444293	1.92	
100 Butylcyclohexane	83	19.450	19.450	0.0	93	456453	1.73	
101 2,3-Dihydroindene	117	19.638	19.638	0.0	90	473434	1.83	
102 1,2-Dichlorobenzene	146	19.644	19.644	0.0	79	296386	1.62	
104 Indene	116	19.767	19.767	0.0	86	431810	1.91	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	553182	1.78	
105 Undecane	57	20.058	20.058	0.0	96	373277	1.85	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.128	20.128	0.0	97	562155	1.79	
108 1,2,4,5-Tetramethylbenzene	119	20.515	20.515	0.0	97	592546	1.88	
107 1,2,3,5-Tetramethylbenzene	119	20.569	20.569	0.0	95	364490	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.989	20.989	0.0	96	466751	1.83	
110 Dodecane	57	21.139	21.139	0.0	94	362218	1.73	
111 1,2,4-Trichlorobenzene	180	21.365	21.365	0.0	94	139694	1.72	
112 Naphthalene	128	21.516	21.516	0.0	99	390457	1.70	
113 Benzo(b)thiophene	134	21.618	21.618	0.0	99	262469	1.68	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	85	249263	1.50	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	96	176671	1.68	
116 2-Methylnaphthalene	142	22.436	22.436	0.0	99	165208	6.75	
117 1-Methylnaphthalene	142	22.570	22.570	0.0	96	180623	7.16	
139 Isopropyl ether	45	8.777	8.777	0.0	97	548195	NR	
142 Tert-butyl ethyl ether	59	9.466	9.466	0.0	96	482634	NR	
140 Tert-amyl methyl ether	73	11.462	11.462	0.0	93	440630	NR	
A 118 C6 Range	1	8.627	8.557 - 8.697		0	2223553	1.87	
A 122 Toluene Range	1	14.248	14.218 - 14.278		0	1207008	1.83	
A 123 C8 Range	1	14.921	14.872 - 14.969		0	1821062	1.78	
S 124 Xylenes, Total	100				0		5.46	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JCCVC24.D

Injection Date: 24-Mar-2014 09:12:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

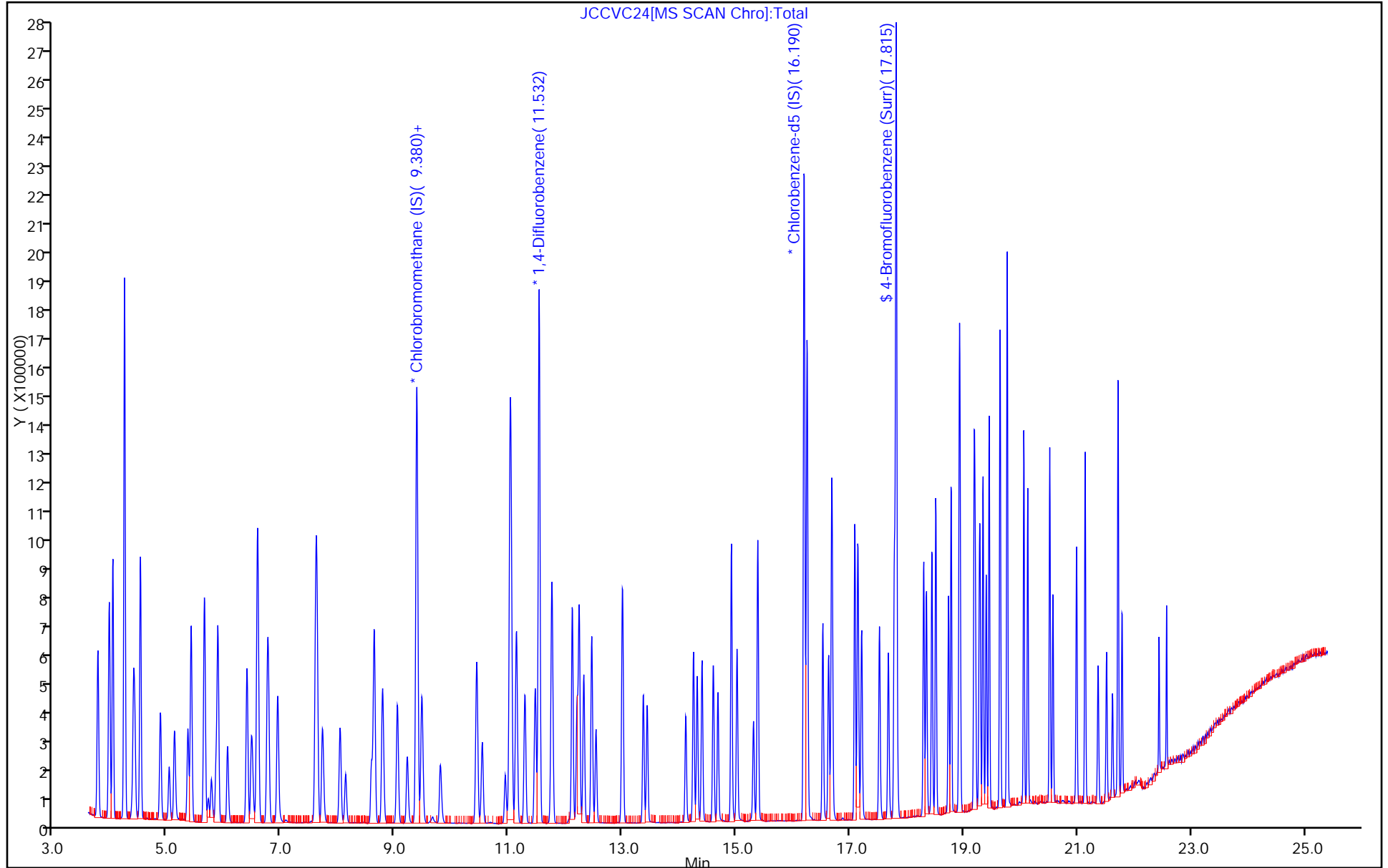
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

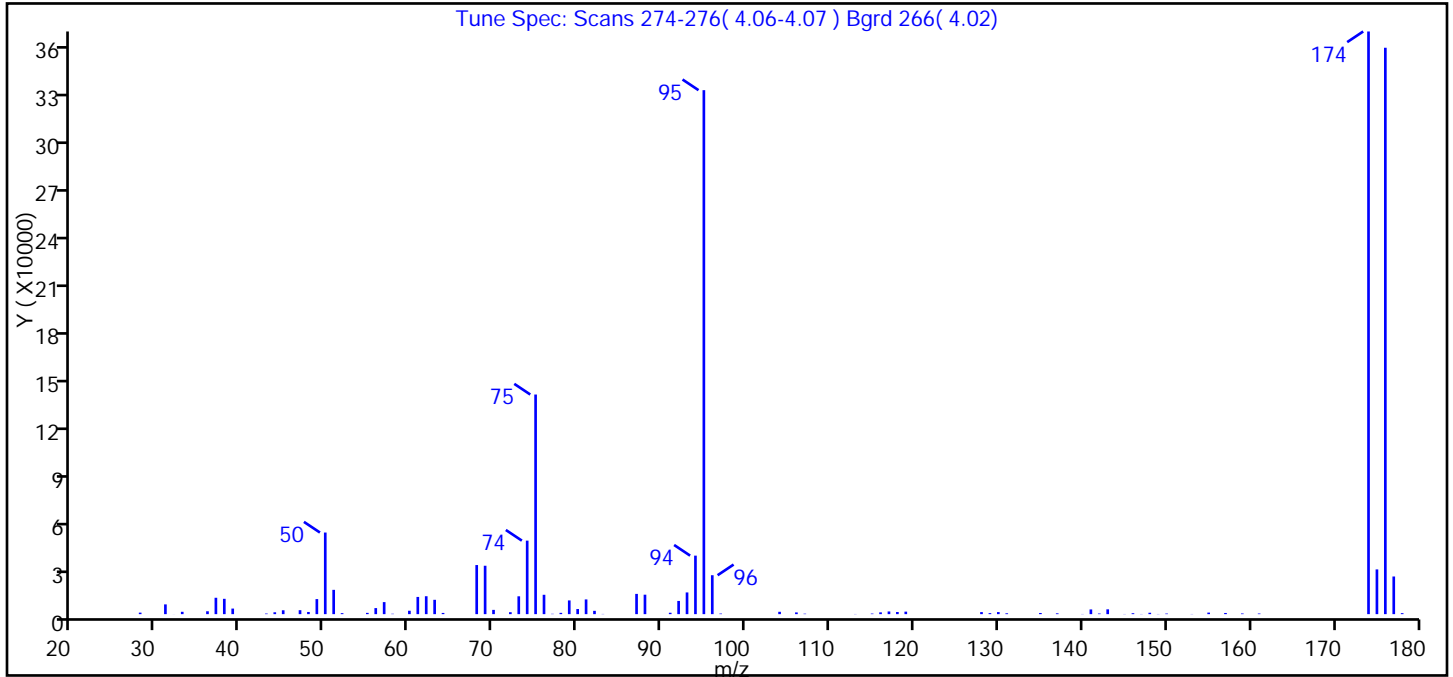
Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Sample Type: BFB
 Inject. Date: 11-Mar-2014 12:12:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,BFB
 Misc. Info.: J031114I,BFB,,,,140-0000516-001
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.067	4.067	0.0	0	577512	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
 Injection Date: 11-Mar-2014 12:12:30 Instrument ID: MJ
 Lims ID: BFB Lab Sample ID:
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.60
75	30.00 - 60.00% of mass 95	41.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	111.20
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	108.10 (97.20)
177	5.00 - 9.00% of mass 176	7.20 (6.60)

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D\MJ_TO15.rslt\spectra.d

Injection Date: 11-Mar-2014 12:12:30

Spectrum: Tune Spec: Scans 274-276(4.06-4.07) Bgrd 266(4.02)

Base Peak: 174.00

Minimum % Base Peak: 0

Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	953	61.00	10830	92.00	8305	141.00	2961
31.00	6139	62.00	11271	93.00	13655	142.00	393
32.00	34	63.00	9021	94.00	36808	143.00	3028
33.00	1475	64.00	763	95.00	329664	145.00	103
36.00	1812	68.00	30888	96.00	24488	146.00	580
37.00	10300	69.00	30448	97.00	363	147.00	102
38.00	9642	70.00	2681	104.00	1481	148.00	873
39.00	3502	72.00	1219	106.00	1093	149.00	103
43.00	373	73.00	11227	107.00	287	150.00	366
44.00	1174	74.00	46248	113.00	104	153.00	104
45.00	2439	75.00	138176	115.00	366	155.00	974
47.00	2486	76.00	12185	116.00	1129	157.00	736
48.00	1370	77.00	211	117.00	1684	159.00	420
49.00	9471	78.00	817	118.00	1356	161.00	400
50.00	51344	79.00	8634	119.00	1577	174.00	366592
51.00	15289	80.00	3213	128.00	1285	175.00	28144
52.00	627	81.00	9265	129.00	646	176.00	356352
55.00	803	82.00	2083	130.00	1299	177.00	23688
56.00	3804	83.00	127	131.00	535	178.00	619
57.00	7571	87.00	12739	135.00	724		
58.00	240	88.00	12242	137.00	514		
60.00	2142	91.00	876	140.00	107		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFB11.D

Injection Date: 11-Mar-2014 12:12:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: BFB

Lab Sample ID:

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

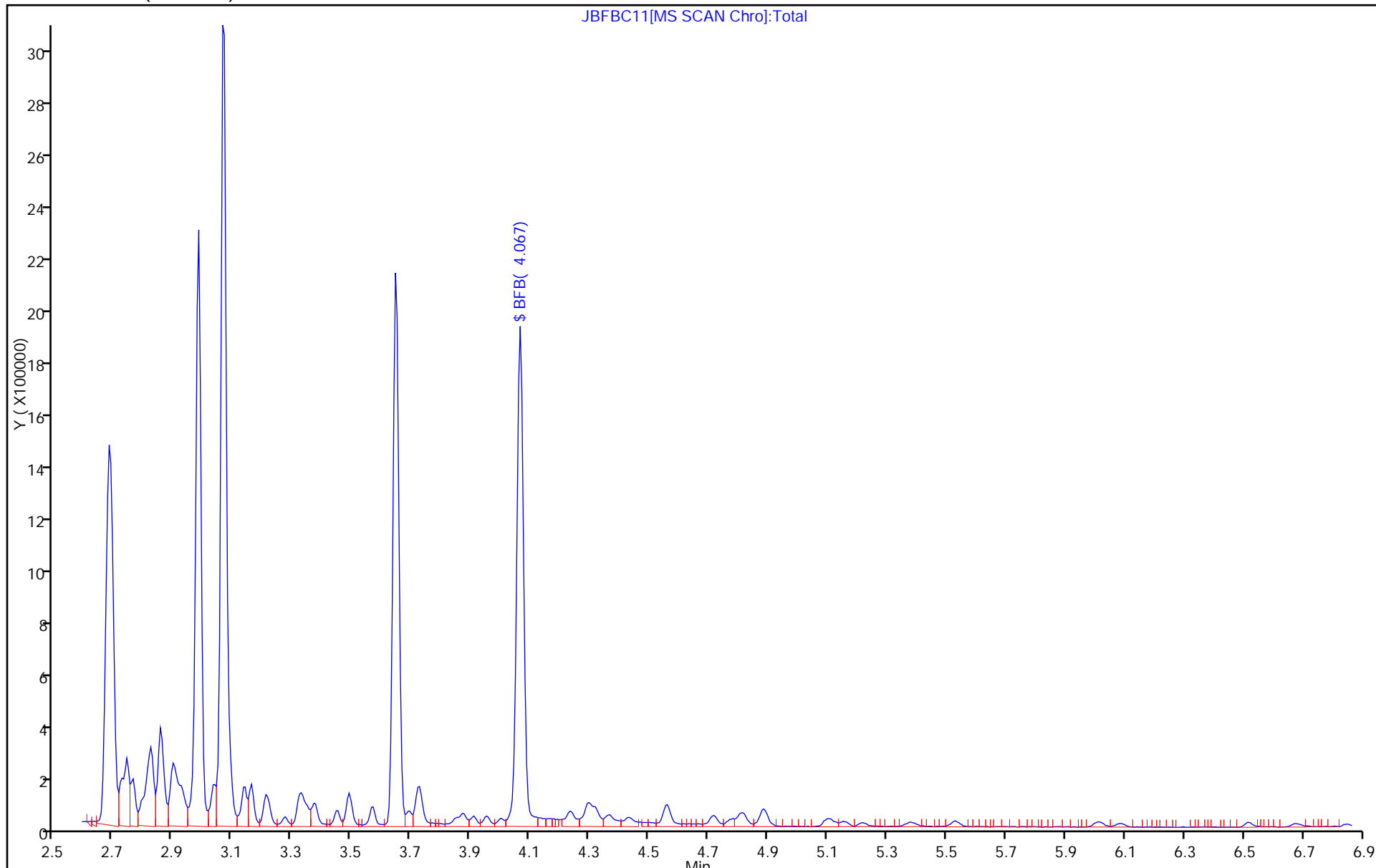
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Mar-2014 11:03:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,bfb
 Misc. Info.: J032114,BFB,,140-0000540-001
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 14:31:30 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

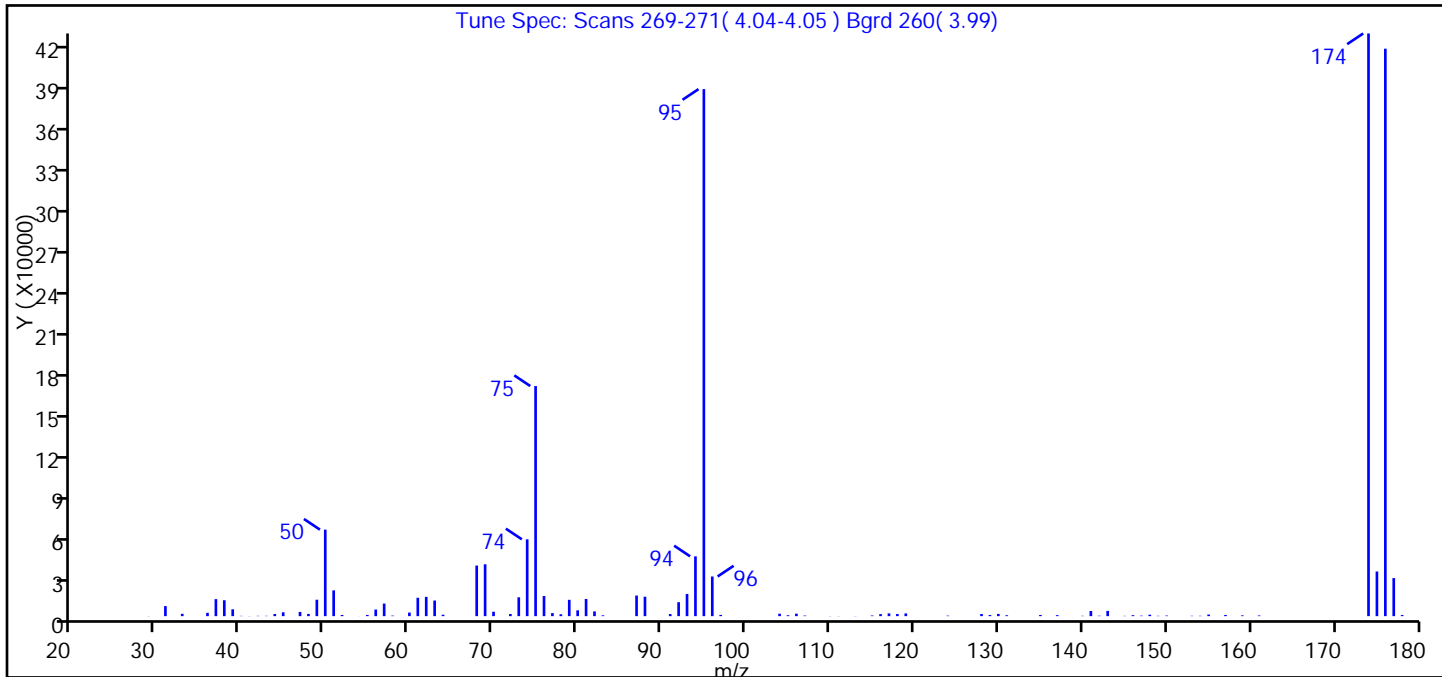
First Level Reviewer: tajh Date: 21-Mar-2014 14:31:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.041	4.041	0.0	0	652867	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D
 Injection Date: 21-Mar-2014 11:03:30 Instrument ID: MJ
 Lims ID: bfb
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.40
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.60
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	107.70 (97.40)
177	5.00 - 9.00% of mass 176	7.20 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFBC21.D\MJ_TO15.rslt\spectra.d

Injection Date: 21-Mar-2014 11:03:30

Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 260(3.99)

Base Peak: 174.00

Minimum % Base Peak: 0

Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	104	60.00	2612	93.00	16239	140.00	255
31.00	7367	61.00	13435	94.00	43744	141.00	3757
33.00	1710	62.00	14091	95.00	385536	142.00	306
36.00	2425	63.00	11430	96.00	29008	143.00	3831
37.00	12450	64.00	1027	97.00	891	145.00	209
38.00	11645	68.00	37008	104.00	1777	146.00	704
39.00	5013	69.00	37944	105.00	666	147.00	359
40.00	212	70.00	3227	106.00	1795	148.00	1060
41.00	93	72.00	1550	107.00	431	149.00	240
42.00	230	73.00	13785	110.00	118	150.00	434
43.00	229	74.00	56192	111.00	114	153.00	266
44.00	1564	75.00	168320	113.00	117	154.00	255
45.00	2828	76.00	14713	115.00	480	155.00	1155
47.00	3090	77.00	2230	116.00	1472	157.00	857
48.00	1619	78.00	1379	117.00	2020	159.00	557
49.00	12011	79.00	11937	118.00	1552	161.00	485
50.00	63280	80.00	4253	119.00	1988	174.00	426240
51.00	18856	81.00	12542	124.00	367	175.00	32664
52.00	843	82.00	3463	128.00	1537	176.00	415104
54.00	43	83.00	600	129.00	808	177.00	27856
55.00	848	87.00	15073	130.00	1631	178.00	798
56.00	4820	88.00	14234	131.00	658		
57.00	9195	91.00	1521	135.00	833		
58.00	404	92.00	10199	137.00	711		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JBFB21.D

Injection Date: 21-Mar-2014 11:03:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

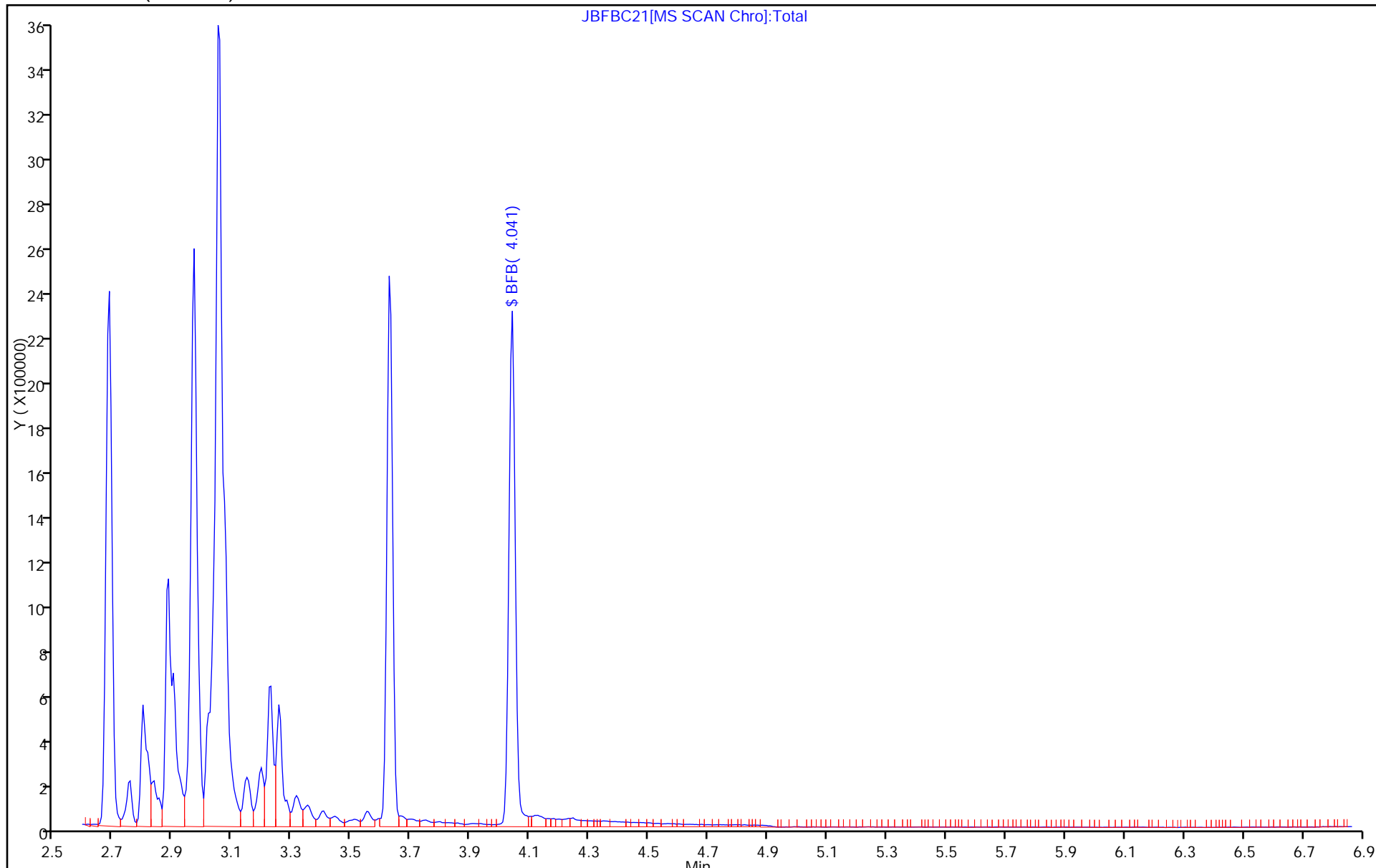
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JBFBC24.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 24-Mar-2014 08:45:30 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: BFB,,3,,,bfb
 Misc. Info.: J032414,BFB,,140-0000545-001
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140321-545.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 14:34:38 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

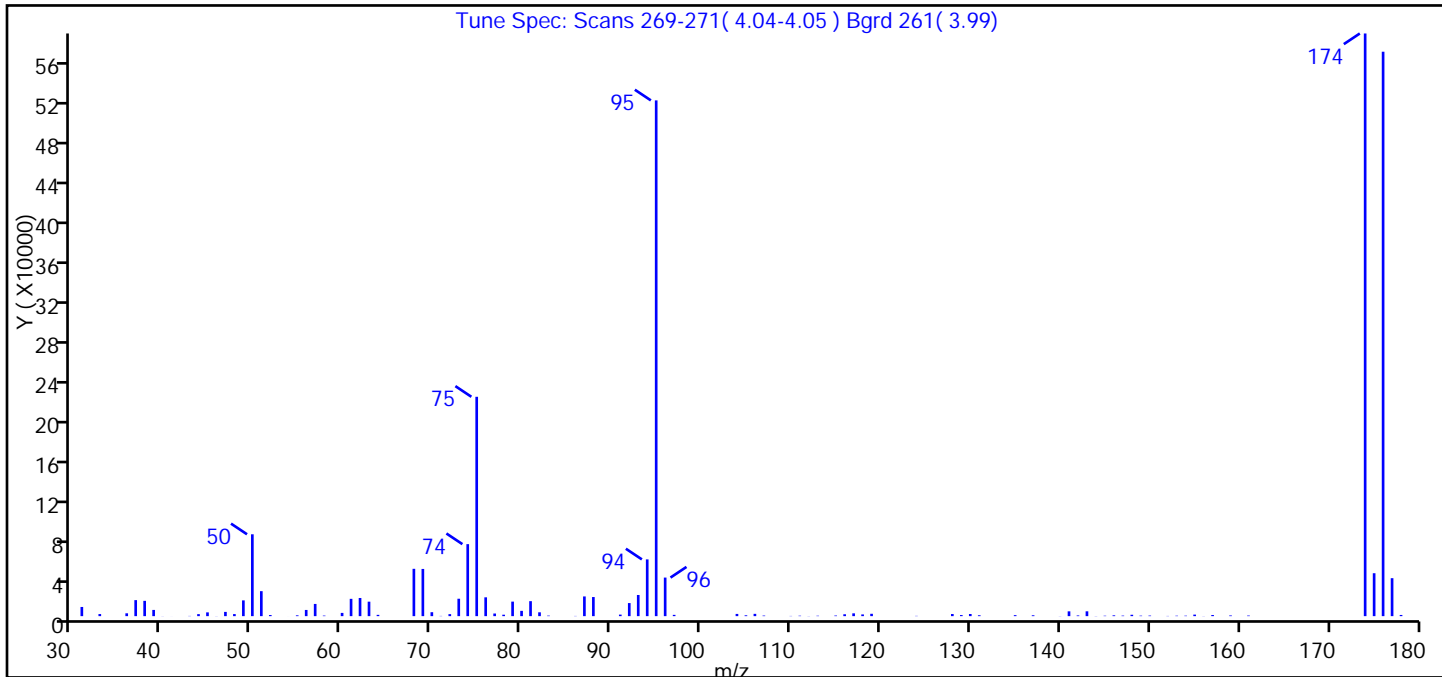
First Level Reviewer: tajh Date: 24-Mar-2014 14:34:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.042	4.042	0.0	0	900380	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JBFBC24.D
 Injection Date: 24-Mar-2014 08:45:30 Instrument ID: MJ
 Lims ID: bfb
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.90
75	30.00 - 60.00% of mass 95	42.50
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	113.00
175	5.00 - 9.00% of mass 174	8.30 (7.40)
176	95.00 - 101.00% of mass 174	109.40 (96.90)
177	5.00 - 9.00% of mass 176	7.40 (6.70)

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JBFBC24.D\MJ_TO15.rslt\spectra.d
Injection Date: 24-Mar-2014 08:45:30
Spectrum: Tune Spec: Scans 269-271(4.04-4.05) Bgrd 261(3.99)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	9204	62.00	18216	94.00	56936	141.00	4820
33.00	2094	63.00	14524	95.00	517504	142.00	704
36.00	2852	64.00	1296	96.00	38696	143.00	4852
37.00	16071	68.00	47488	97.00	1291	144.00	141
38.00	15346	69.00	47360	104.00	2230	145.00	419
39.00	6241	70.00	3958	105.00	842	146.00	809
40.00	86	71.00	222	106.00	2303	147.00	534
41.00	30	72.00	2017	107.00	577	148.00	1381
43.00	219	73.00	17472	110.00	209	149.00	484
44.00	2026	74.00	72248	111.00	424	150.00	568
45.00	3784	75.00	220096	112.00	119	152.00	206
46.00	100	76.00	18880	113.00	407	153.00	431
47.00	4260	77.00	2628	115.00	611	154.00	452
48.00	2069	78.00	1441	116.00	1882	155.00	1538
49.00	15817	79.00	14576	117.00	2813	156.00	112
50.00	82136	80.00	5310	118.00	1721	157.00	1121
51.00	25072	81.00	15031	119.00	2366	159.00	695
52.00	1092	82.00	3857	124.00	268	161.00	591
54.00	16	83.00	522	128.00	2128	174.00	584640
55.00	809	86.00	203	129.00	1078	175.00	43064
56.00	6212	87.00	19776	130.00	2144	176.00	566336
57.00	12248	88.00	19168	131.00	883	177.00	38088
58.00	548	91.00	1541	135.00	998	178.00	1187
60.00	3246	92.00	13113	137.00	869		
61.00	17360	93.00	21224	140.00	109		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JBFBC24.D

Injection Date: 24-Mar-2014 08:45:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

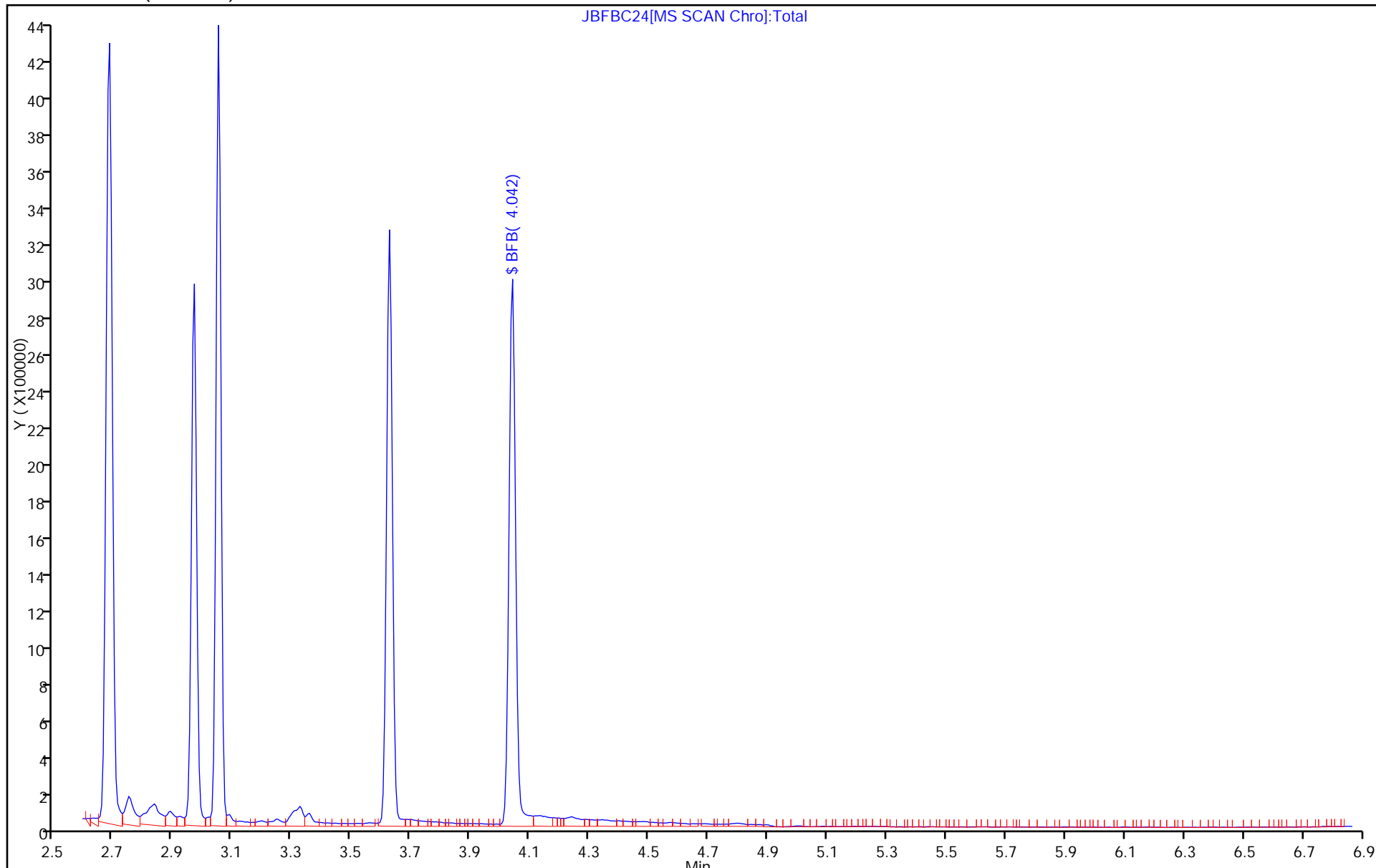
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-984/5
 Matrix: Air Lab File ID: 200BLK.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/21/2014 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Mar-2014 14:39:30 ALS Bottle#: 16 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 200ML BLANK
 Misc. Info.: J032114,TO15,,140-0000540-005
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 08:37:56 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh Date: 24-Mar-2014 08:37:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.374	9.379	-0.005	90	375868	4.00	
* 2 1,4-Difluorobenzene	114	11.525	11.530	-0.005	94	1755903	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.189	16.194	-0.005	87	1341257	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	887215	3.74	
140 Tert-amyl methyl ether	73	11.525	11.466	0.059	1	19915	NR	
T 136 Methanol TIC	31	4.381	4.396	-0.019	82	3059	0.0326	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\200BLK.D

Injection Date: 21-Mar-2014 14:39:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: mb

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

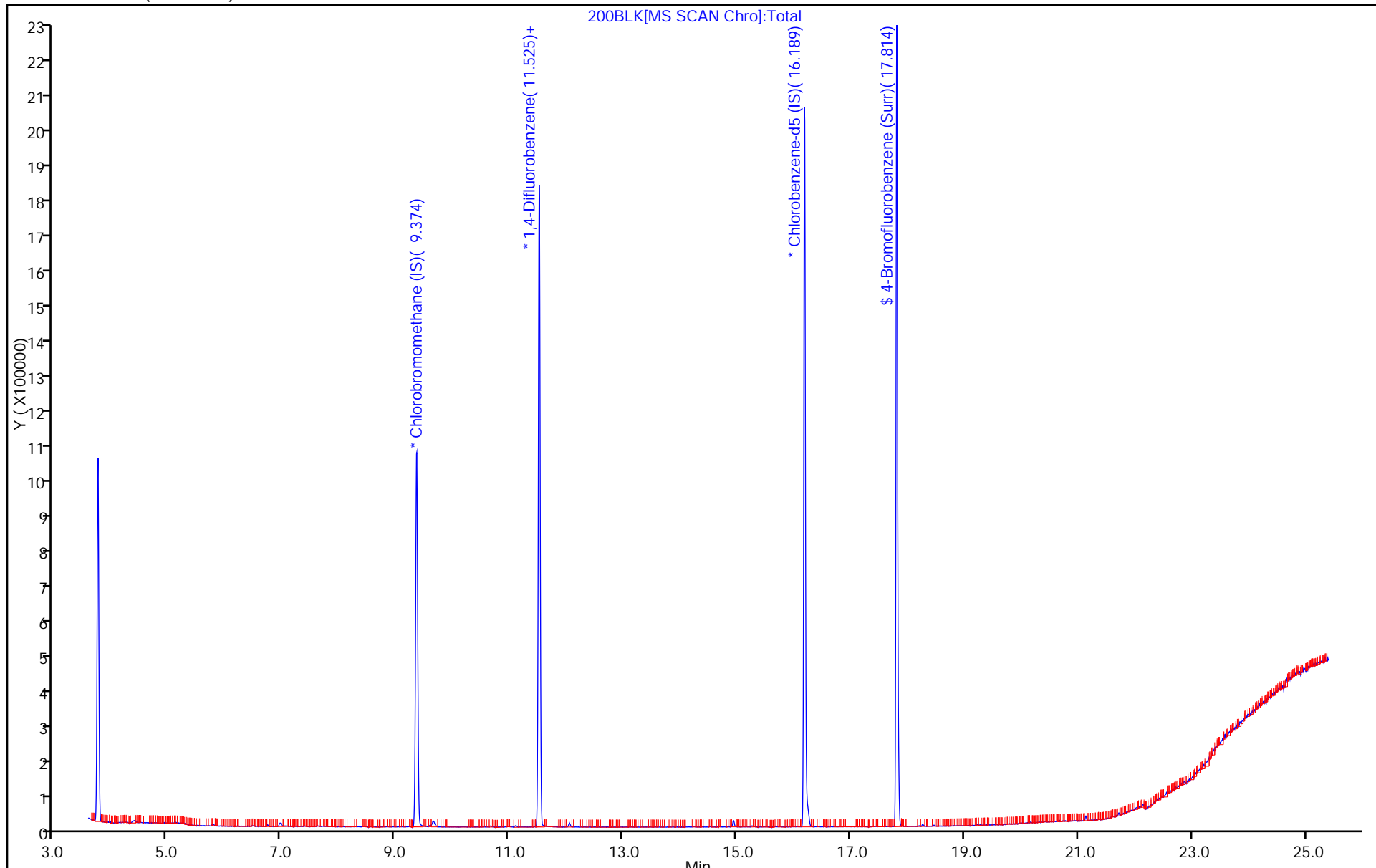
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-1000/1004
 Matrix: Air Lab File ID: 140-1086-a-15-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 10:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
78-78-4	2-Methylbutane	72.15	ND		0.50	0.031
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.506		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-1000/1004
 Matrix: Air Lab File ID: 140-1086-a-15-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 10:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
67-63-0	Isopropyl alcohol	60.10	ND		2.0	0.094
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.0	0.17
75-09-2	Methylene Chloride	84.93	ND		0.50	0.13
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-1000/1004
 Matrix: Air Lab File ID: 140-1086-a-15-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 10:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-1000/1004
 Matrix: Air Lab File ID: 140-1086-a-15-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 10:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
78-78-4	2-Methylbutane	72.15	ND		1.5	0.091
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.07		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-1000/1004
 Matrix: Air Lab File ID: 140-1086-a-15-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 10:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
67-63-0	Isopropyl alcohol	60.10	ND		4.9	0.23
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.6	0.61
75-09-2	Methylene Chloride	84.93	ND		1.7	0.45
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-1000/1004
 Matrix: Air Lab File ID: 140-1086-a-15-MB.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/24/2014 10:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ug/m3

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\140-1086-a-15-MB.d
 Lims ID: MB
 Client ID: 10745
 Sample Type: MB
 Inject. Date: 24-Mar-2014 10:59:30 ALS Bottle#: 1 Worklist Smp#: 1004
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10745
 Misc. Info.: J032414,TO15,,140-0000545-004
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140321-545.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 14:35:47 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 14:36:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.371	9.374	-0.003	91	399241	4.00	
* 2 1,4-Difluorobenzene	114	11.528	11.532	-0.004	94	1822003	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.192	16.195	-0.003	87	1429147	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.811	17.815	-0.004	90	940049	3.72	
47 n-Butanol	31	10.958	10.934	0.024	32	1642	0.0412	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.366	0.007	93	38672	0.2025	
140 Tert-amyl methyl ether	73	11.528	11.462	0.066	12	21422	NR	
A 118 C6 Range	1	8.627	8.557 -	8.697	0	20010	0.0172	
A 122 Toluene Range	1	14.240	14.218 -	14.278	0	14040	0.0217	
A 123 C8 Range	1	14.921	14.872 -	14.969	0	45212	0.0452	
T 136 Methanol TIC	31	4.373	4.400	-0.027	63	9150	0.0917	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\140-1086-a-15-MB.d

Injection Date: 24-Mar-2014 10:59:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: MB

Worklist Smp#: 1004

Client ID: 10745

Purge Vol: 500.000 mL

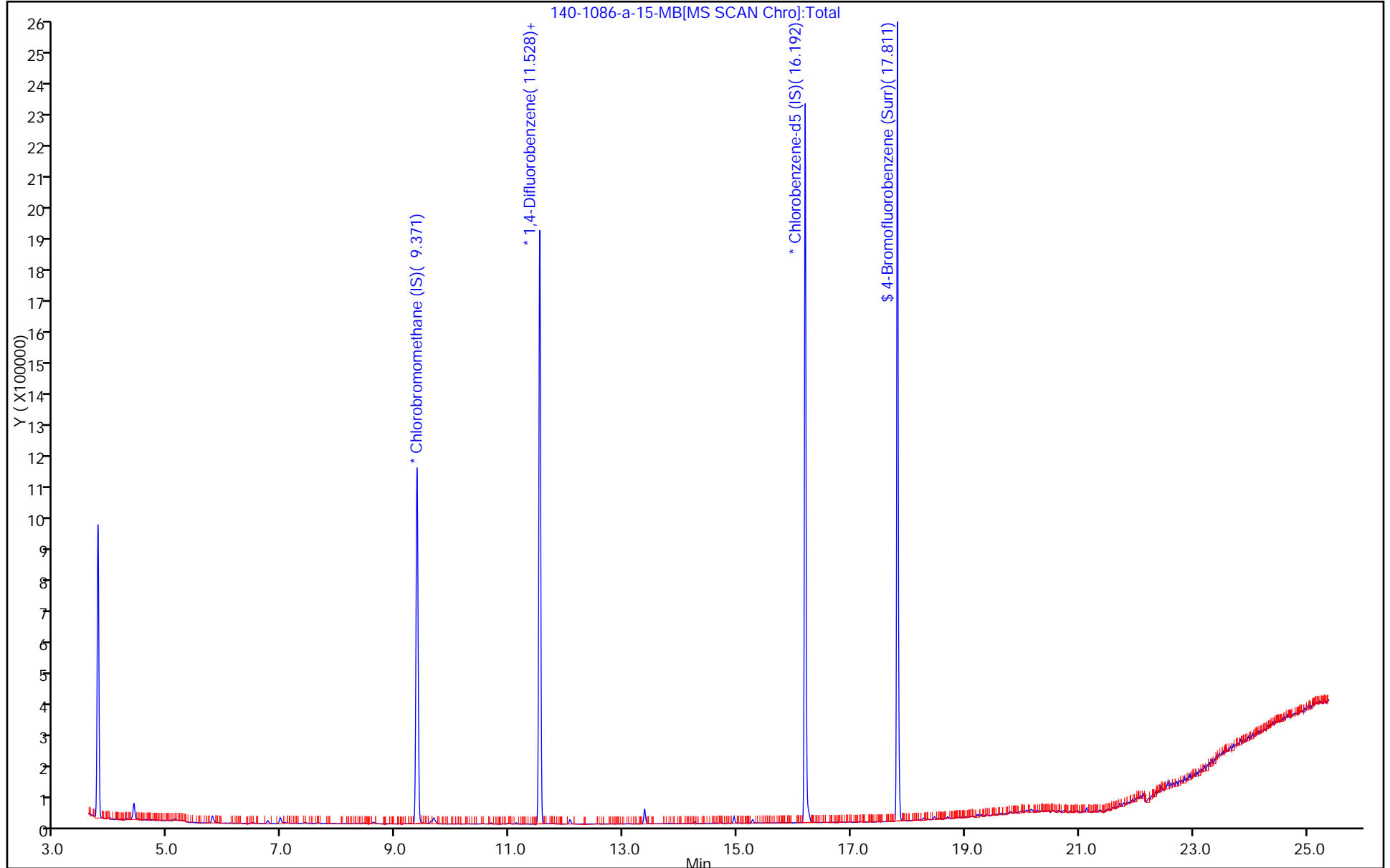
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\140-1086-a-15-MB.d

Injection Date: 24-Mar-2014 10:59:30

Instrument ID: MJ

Lims ID: MB

Client ID: 10745

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 1004

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

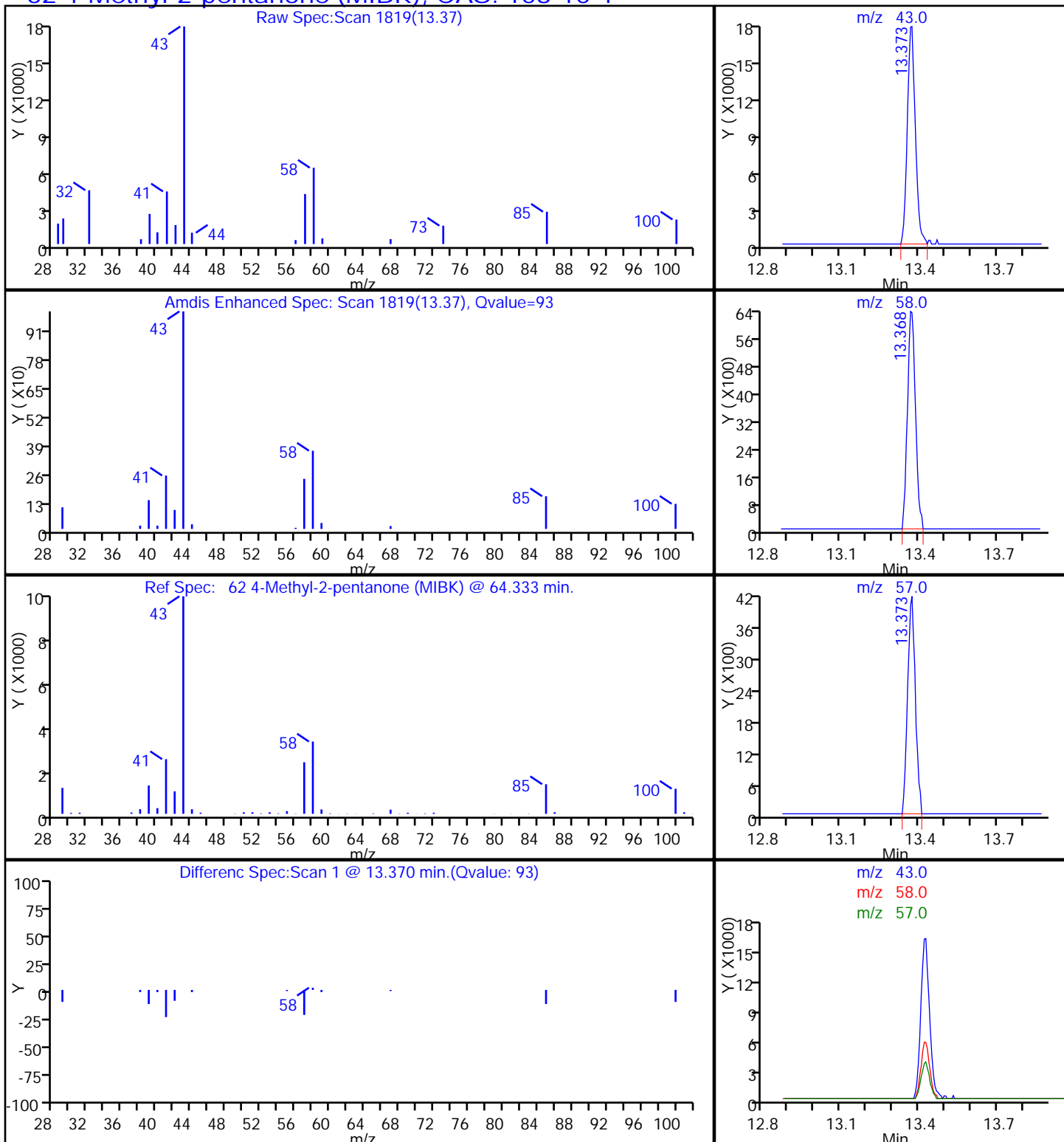
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-984/1002
 Matrix: Air Lab File ID: JCCVC21-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	1.82		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.73		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.26		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.68		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.83		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.30		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.52		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	1.72		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	1.69		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.18		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.51		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.83		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.66		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	1.69		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.09		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.49		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.47		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.58		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.70		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.69		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.71		0.40	0.080
591-78-6	2-Hexanone	100.20	1.75		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.98		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.89		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	1.75		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.74		0.20	0.018
67-64-1	Acetone	58.08	1.05	J	2.0	0.56
71-43-2	Benzene	78.11	1.76		0.080	0.022
100-44-7	Benzyl chloride	126.58	1.59		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.73		0.080	0.018
75-25-2	Bromoform	252.75	1.62		0.080	0.019
74-83-9	Bromomethane	94.94	1.98		0.080	0.013
75-15-0	Carbon disulfide	76.14	2.05		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-984/1002
 Matrix: Air Lab File ID: JCCVC21-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/21/2014 11:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	1.79		0.080	0.015
108-90-7	Chlorobenzene	112.56	1.64		0.080	0.020
75-00-3	Chloroethane	64.52	1.98		0.080	0.014
67-66-3	Chloroform	119.38	1.79		0.080	0.015
74-87-3	Chloromethane	50.49	2.04		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.89		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.65		0.080	0.030
110-82-7	Cyclohexane	84.16	1.85		0.20	0.016
124-48-1	Dibromochloromethane	208.29	1.74		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.10		0.080	0.027
64-17-5	Ethanol	46.07	9.32		0.80	0.80
100-41-4	Ethylbenzene	106.17	1.70		0.080	0.027
142-82-5	Heptane	100.21	1.69		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.43		0.40	0.031
110-54-3	Hexane	86.17	1.70		0.20	0.013
496-11-7	Indane	118.18	1.70		0.080	0.080
95-13-6	Indene	116.16	1.75		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.81		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.83		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.13		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	3.28		0.080	0.048
91-20-3	Naphthalene	128.17	1.50		0.20	0.036
95-47-6	o-Xylene	106.17	1.67		0.080	0.024
115-07-1	Propene	42.08	1.93		0.20	0.031
100-42-5	Styrene	104.15	1.64		0.080	0.023
127-18-4	Tetrachloroethene	165.83	1.70		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.73		0.40	0.025
110-02-1	Thiophene	84.14	1.72		0.080	0.080
108-88-3	Toluene	92.14	1.69		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.90		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.70		0.080	0.019
79-01-6	Trichloroethene	131.39	1.78		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	2.06		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.06		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-984/1002
 Matrix: Air Lab File ID: JCCVC21-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/21/2014 11:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 984 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Mar-2014 11:30:30 ALS Bottle#: 9 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J032114,TO15,,140-0000540-002
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140320-540.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 21-Mar-2014 14:37:22 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: tajh

Date: 21-Mar-2014 14:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.379	9.379	0.0	92	348435	4.00	
* 2 1,4-Difluorobenzene	114	11.530	11.530	0.0	93	1618750	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.194	16.194	0.0	86	1362025	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.814	17.814	0.0	91	961539	3.99	
6 Chlorodifluoromethane	67	3.962	3.962	0.0	97	73340	2.04	
7 Propene	41	3.972	3.972	0.0	99	206454	1.93	
8 Dichlorodifluoromethane	85	4.031	4.031	0.0	100	723445	2.10	
9 Chloromethane	52	4.231	4.231	0.0	99	79812	2.04	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.236	0.0	91	568290	2.18	
11 Acetaldehyde	44	4.397	4.397	0.0	98	226725	6.59	
12 Vinyl chloride	62	4.419	4.419	0.0	99	265939	2.06	
14 Butadiene	54	4.516	4.516	0.0	67	187812	2.09	
13 Butane	43	4.516	4.516	0.0	85	366571	1.99	
15 Bromomethane	94	4.865	4.865	0.0	99	260773	1.98	
16 Chloroethane	64	5.021	5.021	0.0	99	117749	1.98	
17 Ethanol	31	5.113	5.113	0.0	95	260581	9.32	
18 Vinyl bromide	106	5.349	5.349	0.0	97	238762	2.14	
19 2-Methylbutane	43	5.409	5.409	0.0	92	293057	1.98	
20 Trichlorofluoromethane	101	5.640	5.640	0.0	99	623966	2.06	
21 Acrolein	56	5.645	5.645	0.0	22	33304	1.17	
22 Acetonitrile	40	5.715	5.715	0.0	95	44927	1.43	
23 Acetone	58	5.769	5.769	0.0	91	52170	1.05	
24 Isopropyl alcohol	45	5.844	5.844	0.0	98	237164	1.81	
25 Pentane	72	5.882	5.882	0.0	97	37073	1.98	
26 Ethyl ether	31	6.049	6.049	0.0	92	150962	1.66	
27 1,1-Dichloroethene	96	6.393	6.393	0.0	97	225150	2.30	
28 2-Methyl-2-propanol	59	6.468	6.468	0.0	95	270387	1.68	
29 Acrylonitrile	53	6.490	6.490	0.0	94	77221	1.49	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.576	6.576	0.0	94	474776	2.26	
31 Methylene Chloride	84	6.753	6.753	0.0	95	198921	2.13	
32 3-Chloro-1-propene	39	6.770	6.770	0.0	92	167089	1.72	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.931	6.931	0.0	100	671678	2.05	
34 trans-1,2-Dichloroethene	96	7.598	7.598	0.0	98	223978	1.90	
35 2-Methylpentane	43	7.620	7.620	0.0	95	508526	1.89	
36 Methyl tert-butyl ether	73	7.722	7.722	0.0	96	324560	1.83	
37 1,1-Dichloroethane	63	8.028	8.028	0.0	100	336034	1.83	
38 Vinyl acetate	43	8.125	8.125	0.0	100	260696	1.62	
39 2-Butanone (MEK)	72	8.583	8.583	0.0	98	56296	1.71	
40 Hexane	56	8.631	8.631	0.0	89	159006	1.70	
41 cis-1,2-Dichloroethene	96	9.040	9.040	0.0	95	190209	1.89	
42 Ethyl acetate	43	9.212	9.212	0.0	97	265280	1.85	
43 Chloroform	83	9.389	9.389	0.0	97	364001	1.79	
44 Tetrahydrofuran	42	9.793	9.793	0.0	94	139907	1.73	
45 1,1,1-Trichloroethane	97	10.433	10.433	0.0	96	384376	1.82	
46 1,2-Dichloroethane	62	10.530	10.530	0.0	96	230126	1.83	
47 n-Butanol	31	10.939	10.939	0.0	89	59976	1.69	
48 Benzene	78	11.014	11.014	0.0	97	487774	1.76	
49 Cyclohexane	69	11.025	11.025	0.0	91	101312	1.85	
50 Carbon tetrachloride	117	11.046	11.046	0.0	95	410512	1.79	
51 2,3-Dimethylpentane	71	11.132	11.132	0.0	92	110625	1.69	
52 Thiophene	84	11.283	11.283	0.0	96	295623	1.72	
53 Isooctane	57	11.756	11.756	0.0	98	804787	1.70	
54 n-Heptane	71	12.117	12.117	0.0	93	165680	1.69	
55 1,2-Dichloropropane	63	12.198	12.198	0.0	87	156169	1.66	
56 Trichloroethene	130	12.235	12.235	0.0	95	239359	1.78	
57 Dibromomethane	93	12.316	12.316	0.0	92	209416	1.70	
59 Dichlorobromomethane	83	12.456	12.456	0.0	99	338184	1.73	
58 1,4-Dioxane	88	12.461	12.461	0.0	87	53249	1.58	
60 Methyl methacrylate	41	12.531	12.531	0.0	91	148195	1.76	
61 Methylcyclohexane	83	12.999	12.999	0.0	96	314558	1.68	
62 4-Methyl-2-pentanone (MIBK)	43	13.365	13.365	0.0	98	294665	1.74	
63 cis-1,3-Dichloropropene	75	13.435	13.435	0.0	95	220224	1.65	
64 trans-1,3-Dichloropropene	75	14.113	14.113	0.0	98	192172	1.70	
65 Toluene	91	14.247	14.247	0.0	93	426378	1.69	
66 1,1,2-Trichloroethane	83	14.312	14.312	0.0	97	134676	1.68	
67 2-Methylthiophene	97	14.398	14.398	0.0	98	382520	1.68	
68 3-Methylthiophene	97	14.597	14.597	0.0	99	382438	1.68	
69 2-Hexanone	58	14.677	14.677	0.0	92	145016	1.75	
70 n-Octane	85	14.914	14.914	0.0	94	158537	1.71	
71 Chlorodibromomethane	129	15.011	15.011	0.0	96	307234	1.74	
72 Ethylene Dibromide	107	15.301	15.301	0.0	98	232505	1.69	
73 Tetrachloroethene	129	15.377	15.377	0.0	92	199936	1.70	
75 Chlorobenzene	112	16.243	16.243	0.0	84	353125	1.64	
74 2,3-Dimethylheptane	43	16.248	16.248	0.0	95	507455	1.82	
76 Ethylbenzene	91	16.523	16.523	0.0	98	475143	1.70	
77 2-Ethylthiophene	97	16.625	16.625	0.0	98	368610	1.69	
78 m-Xylene & p-Xylene	91	16.684	16.684	0.0	99	739168	3.28	
79 n-Nonane	57	17.082	17.082	0.0	93	301033	1.72	
81 Bromoform	173	17.136	17.136	0.0	93	226284	1.62	
80 Styrene	104	17.141	17.141	0.0	98	253031	1.64	
82 o-Xylene	91	17.206	17.206	0.0	98	381059	1.67	
83 1,1,2,2-Tetrachloroethane	83	17.518	17.518	0.0	99	323568	1.73	
84 1,2,3-Trichloropropane	110	17.674	17.674	0.0	97	75242	1.68	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.781	17.781	0.0	97	544982	1.68	
86 N-Propylbenzene	120	18.298	18.298	0.0	98	144603	1.69	
87 2-Chlorotoluene	126	18.346	18.346	0.0	97	143665	1.60	
88 4-Ethyltoluene	105	18.443	18.443	0.0	97	529372	1.75	
89 1,3,5-Trimethylbenzene	120	18.513	18.513	0.0	92	258484	1.69	
90 Alpha Methyl Styrene	118	18.734	18.734	0.0	85	188967	1.73	
91 n-Decane	57	18.782	18.782	0.0	89	317909	1.70	
92 tert-Butylbenzene	119	18.922	18.922	0.0	86	500702	1.68	
93 1,2,4-Trimethylbenzene	105	18.938	18.938	0.0	95	454740	1.72	
94 sec-Butylbenzene	105	19.185	19.185	0.0	98	670017	1.73	
95 1,3-Dichlorobenzene	146	19.207	19.207	0.0	99	258435	1.49	
96 Benzyl chloride	91	19.272	19.272	0.0	98	314378	1.59	
97 1,4-Dichlorobenzene	146	19.288	19.288	0.0	93	237687	1.47	
98 4-Isopropyltoluene	119	19.341	19.341	0.0	87	542350	1.74	
99 1,2,3-Trimethylbenzene	105	19.395	19.395	0.0	98	382521	1.77	
100 Butylcyclohexane	83	19.449	19.449	0.0	93	413679	1.68	
101 2,3-Dihydroindene	117	19.643	19.643	0.0	89	410922	1.70	
102 1,2-Dichlorobenzene	146	19.643	19.643	0.0	78	257573	1.51	
103 n-Butylbenzene	91	19.766	19.766	0.0	96	482948	1.67	
104 Indene	116	19.766	19.766	0.0	85	368657	1.75	
105 Undecane	57	20.057	20.057	0.0	96	322773	1.72	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.127	20.127	0.0	97	489073	1.68	
108 1,2,4,5-Tetramethylbenzene	119	20.514	20.514	0.0	97	516603	1.76	
107 1,2,3,5-Tetramethylbenzene	119	20.573	20.573	0.0	95	315876	1.65	
109 1,2,3,4-Tetramethylbenzene	119	20.988	20.988	0.0	96	405278	1.71	
110 Dodecane	57	21.138	21.138	0.0	94	314909	1.62	
111 1,2,4-Trichlorobenzene	180	21.364	21.364	0.0	94	114862	1.52	
112 Naphthalene	128	21.515	21.515	0.0	99	321011	1.50	
113 Benzo(b)thiophene	134	21.622	21.622	0.0	99	215440	1.48	
114 Hexachlorobutadiene	225	21.719	21.719	0.0	85	221293	1.43	
115 1,2,3-Trichlorobenzene	180	21.789	21.789	0.0	95	148088	1.51	
116 2-Methylnaphthalene	142	22.440	22.440	0.0	96	142365	6.25	
117 1-Methylnaphthalene	142	22.569	22.569	0.0	99	157009	6.68	
139 Isopropyl ether	45	8.776	8.776	0.0	97	452886	NR	
142 Tert-butyl ethyl ether	59	9.470	9.470	0.0	96	399988	NR	
140 Tert-amyl methyl ether	73	11.466	11.466	0.0	91	371658	NR	
A 118 C6 Range	1	8.631	8.566 - 8.695		0	1806091	1.78	
A 122 Toluene Range	1	14.247	14.217 - 14.277		0	1032930	1.68	
A 123 C8 Range	1	14.917	14.866 - 14.973		0	1578643	1.65	
S 124 Xylenes, Total	100				0		4.95	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140320-540.b\JCCVC21-LCS.d

Injection Date: 21-Mar-2014 11:30:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

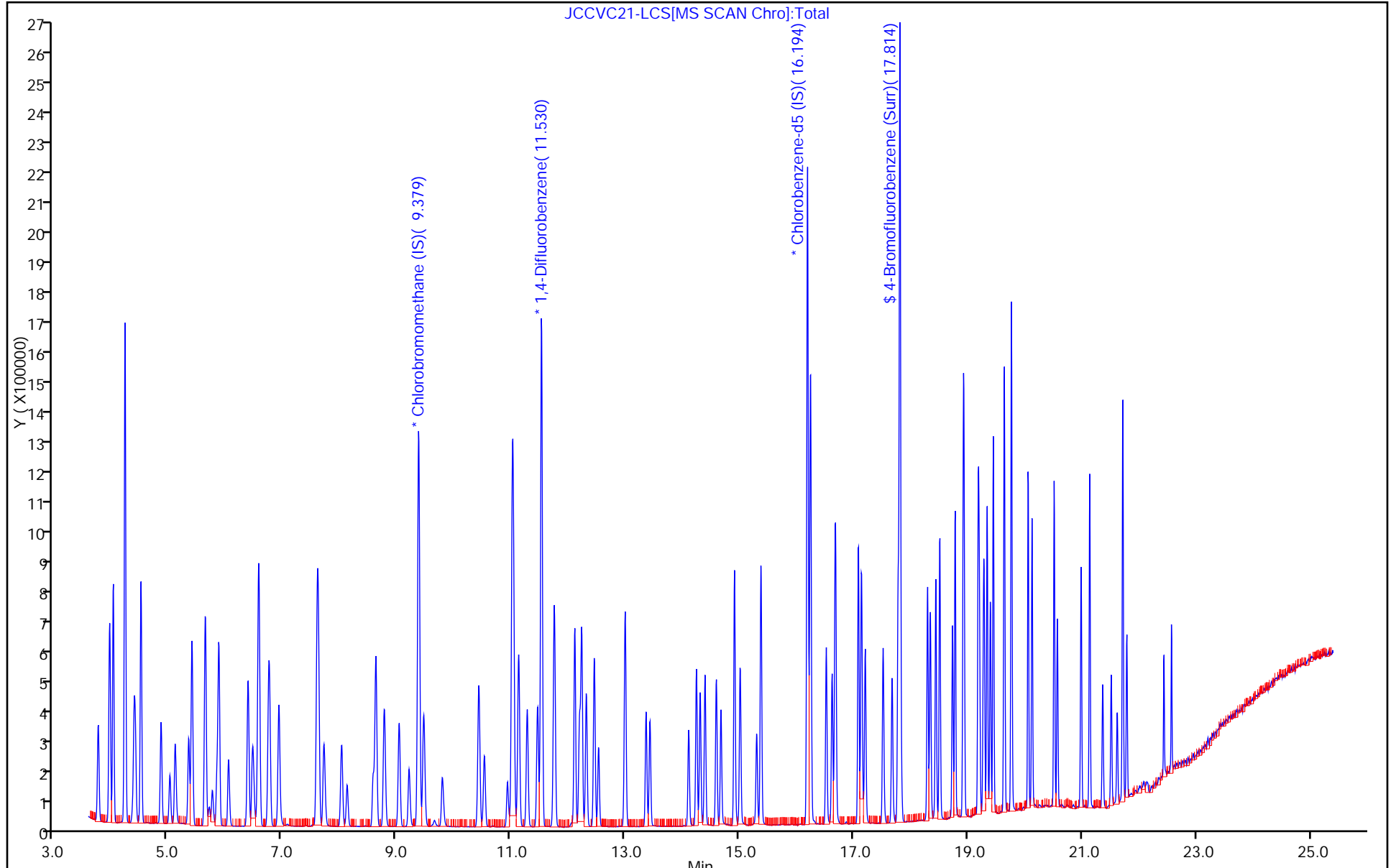
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-1000/1002
 Matrix: Air Lab File ID: JCCVC24-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	1.89		0.080	0.012
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.89		0.080	0.024
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	2.26		0.080	0.012
79-00-5	1,1,2-Trichloroethane	133.41	1.82		0.080	0.022
75-34-3	1,1-Dichloroethane	98.96	1.91		0.080	0.010
75-35-4	1,1-Dichloroethene	96.94	2.21		0.080	0.014
120-82-1	1,2,4-Trichlorobenzene	181.45	1.72		0.40	0.039
95-63-6	1,2,4-Trimethylbenzene	120.20	1.88		0.080	0.025
106-93-4	1,2-Dibromoethane (EDB)	187.87	1.82		0.080	0.018
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	2.17		0.080	0.013
95-50-1	1,2-Dichlorobenzene	147.00	1.62		0.080	0.028
107-06-2	1,2-Dichloroethane	98.96	1.96		0.080	0.019
78-87-5	1,2-Dichloropropane	112.99	1.74		0.080	0.021
108-67-8	1,3,5-Trimethylbenzene	120.20	1.88		0.080	0.026
106-99-0	1,3-Butadiene	54.09	2.06		0.16	0.026
541-73-1	1,3-Dichlorobenzene	147.00	1.62		0.080	0.026
106-46-7	1,4-Dichlorobenzene	147.00	1.60		0.080	0.026
123-91-1	1,4-Dioxane	88.11	1.72		0.20	0.032
540-84-1	2,2,4-Trimethylpentane	114.23	1.78		0.20	0.016
565-59-3	2,3-Dimethylpentane	100.20	1.81		0.080	0.080
78-93-3	2-Butanone (MEK)	72.11	1.82		0.40	0.080
591-78-6	2-Hexanone	100.20	1.94		0.20	0.023
78-78-4	2-Methylbutane	72.15	1.92		0.20	0.012
107-83-5	2-Methylpentane	86.18	1.92		0.080	0.080
622-96-8	4-Ethyltoluene	120.20	1.91		0.16	0.026
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.89		0.20	0.018
67-64-1	Acetone	58.08	1.15	J	2.0	0.56
71-43-2	Benzene	78.11	1.88		0.080	0.022
100-44-7	Benzyl chloride	126.58	1.79		0.16	0.031
75-27-4	Bromodichloromethane	163.83	1.80		0.080	0.018
75-25-2	Bromoform	252.75	1.68		0.080	0.019
74-83-9	Bromomethane	94.94	1.92		0.080	0.013
75-15-0	Carbon disulfide	76.14	1.94		0.20	0.012

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-1000/1002
 Matrix: Air Lab File ID: JCCVC24-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100(mL) Date Analyzed: 03/24/2014 09:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
56-23-5	Carbon tetrachloride	153.81	1.77		0.080	0.015
108-90-7	Chlorobenzene	112.56	1.74		0.080	0.020
75-00-3	Chloroethane	64.52	1.94		0.080	0.014
67-66-3	Chloroform	119.38	1.85		0.080	0.015
74-87-3	Chloromethane	50.49	2.01		0.20	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	1.97		0.080	0.024
10061-01-5	cis-1,3-Dichloropropene	110.97	1.73		0.080	0.030
110-82-7	Cyclohexane	84.16	1.98		0.20	0.016
124-48-1	Dibromochloromethane	208.29	1.84		0.080	0.017
75-71-8	Dichlorodifluoromethane	120.91	2.08		0.080	0.027
64-17-5	Ethanol	46.07	9.59		0.80	0.80
100-41-4	Ethylbenzene	106.17	1.88		0.080	0.027
142-82-5	Heptane	100.21	1.77		0.20	0.019
87-68-3	Hexachlorobutadiene	260.76	1.50		0.40	0.031
110-54-3	Hexane	86.17	1.79		0.20	0.013
496-11-7	Indane	118.18	1.83		0.080	0.080
95-13-6	Indene	116.16	1.91		0.16	0.16
67-63-0	Isopropyl alcohol	60.10	1.81		0.80	0.038
1634-04-4	Methyl tert-butyl ether	88.15	1.90		0.40	0.068
75-09-2	Methylene Chloride	84.93	2.11		0.20	0.052
179601-23-1	m-Xylene & p-Xylene	106.17	3.63		0.080	0.048
91-20-3	Naphthalene	128.17	1.70		0.20	0.036
95-47-6	o-Xylene	106.17	1.84		0.080	0.024
115-07-1	Propene	42.08	1.91		0.20	0.031
100-42-5	Styrene	104.15	1.83		0.080	0.023
127-18-4	Tetrachloroethene	165.83	1.83		0.080	0.016
109-99-9	Tetrahydrofuran	72.11	1.83		0.40	0.025
110-02-1	Thiophene	84.14	1.83		0.080	0.080
108-88-3	Toluene	92.14	1.84		0.080	0.048
156-60-5	trans-1,2-Dichloroethene	96.94	1.87		0.080	0.020
10061-02-6	trans-1,3-Dichloropropene	110.97	1.86		0.080	0.019
79-01-6	Trichloroethene	131.39	1.89		0.080	0.014
75-69-4	Trichlorofluoromethane	137.37	1.99		0.080	0.0096
75-01-4	Vinyl chloride	62.50	2.01		0.080	0.028

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-1000/1002
 Matrix: Air Lab File ID: JCCVC24-LCS.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/24/2014 09:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 1000 Units: ppb v/v

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JCCVC24-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 24-Mar-2014 09:12:30 ALS Bottle#: 9 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J032414,TO15,,140-0000545-002
 Operator ID: 7126 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140321-545.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Mar-2014 14:35:47 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK050

First Level Reviewer: tajh

Date: 24-Mar-2014 14:35:47

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.374	9.374	0.0	92	408162	4.00	
* 2 1,4-Difluorobenzene	114	11.532	11.532	0.0	93	1808884	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.195	16.195	0.0	86	1461829	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.815	17.815	0.0	91	1020323	3.95	
6 Chlorodifluoromethane	67	3.963	3.963	0.0	97	85075	2.02	
7 Propene	41	3.973	3.973	0.0	99	239422	1.91	
8 Dichlorodifluoromethane	85	4.033	4.033	0.0	100	841137	2.08	
9 Chloromethane	52	4.232	4.232	0.0	99	92363	2.01	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.237	0.0	91	661086	2.17	
11 Acetaldehyde	44	4.398	4.398	0.0	99	293895	7.30	
12 Vinyl chloride	62	4.420	4.420	0.0	99	303801	2.01	
14 Butadiene	54	4.517	4.517	0.0	92	216590	2.06	
13 Butane	43	4.517	4.517	0.0	91	425834	1.98	
15 Bromomethane	94	4.866	4.866	0.0	99	296218	1.92	
16 Chloroethane	64	5.022	5.022	0.0	100	134958	1.94	
17 Ethanol	31	5.114	5.114	0.0	95	314397	9.59	
18 Vinyl bromide	106	5.350	5.350	0.0	97	271130	2.07	
19 2-Methylbutane	43	5.410	5.410	0.0	93	332229	1.92	
20 Trichlorofluoromethane	101	5.641	5.641	0.0	99	705383	1.99	
21 Acrolein	56	5.646	5.646	0.0	63	42000	1.26	
22 Acetonitrile	40	5.711	5.711	0.0	99	56062	1.52	
23 Acetone	58	5.770	5.770	0.0	91	66911	1.15	
24 Isopropyl alcohol	45	5.845	5.845	0.0	97	277498	1.81	
25 Pentane	72	5.883	5.883	0.0	98	41887	1.91	
26 Ethyl ether	31	6.050	6.050	0.0	92	185207	1.73	
27 1,1-Dichloroethene	96	6.389	6.389	0.0	97	252753	2.21	
28 2-Methyl-2-propanol	59	6.469	6.469	0.0	95	305391	1.62	
29 Acrylonitrile	53	6.486	6.486	0.0	94	98121	1.62	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.577	6.577	0.0	95	556930	2.26	
31 Methylene Chloride	84	6.755	6.755	0.0	95	230167	2.11	
32 3-Chloro-1-propene	39	6.771	6.771	0.0	94	202368	1.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.932	6.932	0.0	100	746736	1.94	
34 trans-1,2-Dichloroethene	96	7.599	7.599	0.0	98	258538	1.87	
35 2-Methylpentane	43	7.621	7.621	0.0	95	605666	1.92	
36 Methyl tert-butyl ether	73	7.717	7.717	0.0	96	396514	1.90	
37 1,1-Dichloroethane	63	8.029	8.029	0.0	100	411308	1.91	
38 Vinyl acetate	43	8.126	8.126	0.0	100	327153	1.73	
39 2-Butanone (MEK)	72	8.584	8.584	0.0	98	70424	1.82	
40 Hexane	56	8.627	8.627	0.0	91	196537	1.79	
41 cis-1,2-Dichloroethene	96	9.035	9.035	0.0	95	232508	1.97	
42 Ethyl acetate	43	9.213	9.213	0.0	97	330070	1.96	
43 Chloroform	83	9.385	9.385	0.0	97	440772	1.85	
44 Tetrahydrofuran	42	9.789	9.789	0.0	94	173288	1.83	
45 1,1,1-Trichloroethane	97	10.434	10.434	0.0	97	467645	1.89	
46 1,2-Dichloroethane	62	10.531	10.531	0.0	97	275056	1.96	
47 n-Butanol	31	10.934	10.934	0.0	88	68911	1.74	
48 Benzene	78	11.015	11.015	0.0	97	583229	1.88	
49 Cyclohexane	69	11.026	11.026	0.0	91	121285	1.98	
50 Carbon tetrachloride	117	11.042	11.042	0.0	97	455016	1.77	
51 2,3-Dimethylpentane	71	11.133	11.133	0.0	91	132763	1.81	
52 Thiophene	84	11.284	11.284	0.0	96	351254	1.83	
53 Isooctane	57	11.757	11.757	0.0	98	944631	1.78	
54 n-Heptane	71	12.112	12.112	0.0	93	194734	1.77	
55 1,2-Dichloropropane	63	12.199	12.199	0.0	88	182426	1.74	
56 Trichloroethene	130	12.236	12.236	0.0	93	284324	1.89	
57 Dibromomethane	93	12.317	12.317	0.0	92	247509	1.79	
59 Dichlorobromomethane	83	12.457	12.457	0.0	99	394058	1.80	
58 1,4-Dioxane	88	12.462	12.462	0.0	90	64555	1.72	
60 Methyl methacrylate	41	12.532	12.532	0.0	91	184362	1.96	
61 Methylcyclohexane	83	13.000	13.000	0.0	96	370889	1.78	
62 4-Methyl-2-pentanone (MIBK)	43	13.366	13.366	0.0	98	357930	1.89	
63 cis-1,3-Dichloropropene	75	13.430	13.430	0.0	96	257278	1.73	
64 trans-1,3-Dichloropropene	75	14.108	14.108	0.0	99	225818	1.86	
65 Toluene	91	14.248	14.248	0.0	93	497884	1.84	
66 1,1,2-Trichloroethane	83	14.313	14.313	0.0	97	156809	1.82	
67 2-Methylthiophene	97	14.399	14.399	0.0	98	443052	1.82	
68 3-Methylthiophene	97	14.592	14.592	0.0	99	445607	1.82	
69 2-Hexanone	58	14.678	14.678	0.0	92	171919	1.94	
70 n-Octane	85	14.915	14.915	0.0	95	183565	1.84	
71 Chlorodibromomethane	129	15.012	15.012	0.0	96	348319	1.84	
72 Ethylene Dibromide	107	15.303	15.303	0.0	98	268707	1.82	
73 Tetrachloroethene	129	15.378	15.378	0.0	93	230578	1.83	
75 Chlorobenzene	112	16.244	16.244	0.0	88	402837	1.74	
74 2,3-Dimethylheptane	43	16.249	16.249	0.0	95	577205	1.93	
76 Ethylbenzene	91	16.524	16.524	0.0	98	563639	1.88	
77 2-Ethylthiophene	97	16.626	16.626	0.0	98	432482	1.84	
78 m-Xylene & p-Xylene	91	16.680	16.680	0.0	100	876943	3.63	
79 n-Nonane	57	17.083	17.083	0.0	93	337503	1.79	
81 Bromoform	173	17.137	17.137	0.0	94	252128	1.68	
80 Styrene	104	17.142	17.142	0.0	99	303214	1.83	
82 o-Xylene	91	17.207	17.207	0.0	99	449783	1.84	
83 1,1,2,2-Tetrachloroethane	83	17.519	17.519	0.0	99	378480	1.89	
84 1,2,3-Trichloropropane	110	17.675	17.675	0.0	97	89751	1.87	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.782	17.782	0.0	97	640907	1.84	
86 N-Propylbenzene	120	18.299	18.299	0.0	98	170081	1.85	
87 2-Chlorotoluene	126	18.347	18.347	0.0	97	165788	1.73	
88 4-Ethyltoluene	105	18.439	18.439	0.0	98	623427	1.91	
89 1,3,5-Trimethylbenzene	120	18.509	18.509	0.0	92	307794	1.88	
90 Alpha Methyl Styrene	118	18.735	18.735	0.0	86	225165	1.92	
91 n-Decane	57	18.778	18.778	0.0	89	361791	1.80	
92 tert-Butylbenzene	119	18.923	18.923	0.0	88	584497	1.83	
93 1,2,4-Trimethylbenzene	105	18.939	18.939	0.0	95	533730	1.88	
94 sec-Butylbenzene	105	19.186	19.186	0.0	98	777572	1.87	
95 1,3-Dichlorobenzene	146	19.208	19.208	0.0	99	302877	1.62	
96 Benzyl chloride	91	19.273	19.273	0.0	98	378521	1.79	
97 1,4-Dichlorobenzene	146	19.289	19.289	0.0	94	278039	1.60	
98 4-Isopropyltoluene	119	19.342	19.342	0.0	88	624316	1.87	
99 1,2,3-Trimethylbenzene	105	19.396	19.396	0.0	98	444293	1.92	
100 Butylcyclohexane	83	19.450	19.450	0.0	93	456453	1.73	
101 2,3-Dihydroindene	117	19.638	19.638	0.0	90	473434	1.83	
102 1,2-Dichlorobenzene	146	19.644	19.644	0.0	79	296386	1.62	
104 Indene	116	19.767	19.767	0.0	86	431810	1.91	
103 n-Butylbenzene	91	19.767	19.767	0.0	96	553182	1.78	
105 Undecane	57	20.058	20.058	0.0	96	373277	1.85	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.128	20.128	0.0	97	562155	1.79	
108 1,2,4,5-Tetramethylbenzene	119	20.515	20.515	0.0	97	592546	1.88	
107 1,2,3,5-Tetramethylbenzene	119	20.569	20.569	0.0	95	364490	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.989	20.989	0.0	96	466751	1.83	
110 Dodecane	57	21.139	21.139	0.0	94	362218	1.73	
111 1,2,4-Trichlorobenzene	180	21.365	21.365	0.0	94	139694	1.72	
112 Naphthalene	128	21.516	21.516	0.0	99	390457	1.70	
113 Benzo(b)thiophene	134	21.618	21.618	0.0	99	262469	1.68	
114 Hexachlorobutadiene	225	21.720	21.720	0.0	85	249263	1.50	
115 1,2,3-Trichlorobenzene	180	21.790	21.790	0.0	96	176671	1.68	
116 2-Methylnaphthalene	142	22.436	22.436	0.0	99	165208	6.75	
117 1-Methylnaphthalene	142	22.570	22.570	0.0	96	180623	7.16	
139 Isopropyl ether	45	8.777	8.777	0.0	97	548195	NR	
142 Tert-butyl ethyl ether	59	9.466	9.466	0.0	96	482634	NR	
140 Tert-amyl methyl ether	73	11.462	11.462	0.0	93	440630	NR	
A 118 C6 Range	1	8.627	8.557 - 8.697		0	2223553	1.87	
A 122 Toluene Range	1	14.248	14.218 - 14.278		0	1207008	1.83	
A 123 C8 Range	1	14.921	14.872 - 14.969		0	1821062	1.78	
S 124 Xylenes, Total	100				0		5.46	

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140321-545.b\JCCVC24-LCS.d

Injection Date: 24-Mar-2014 09:12:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

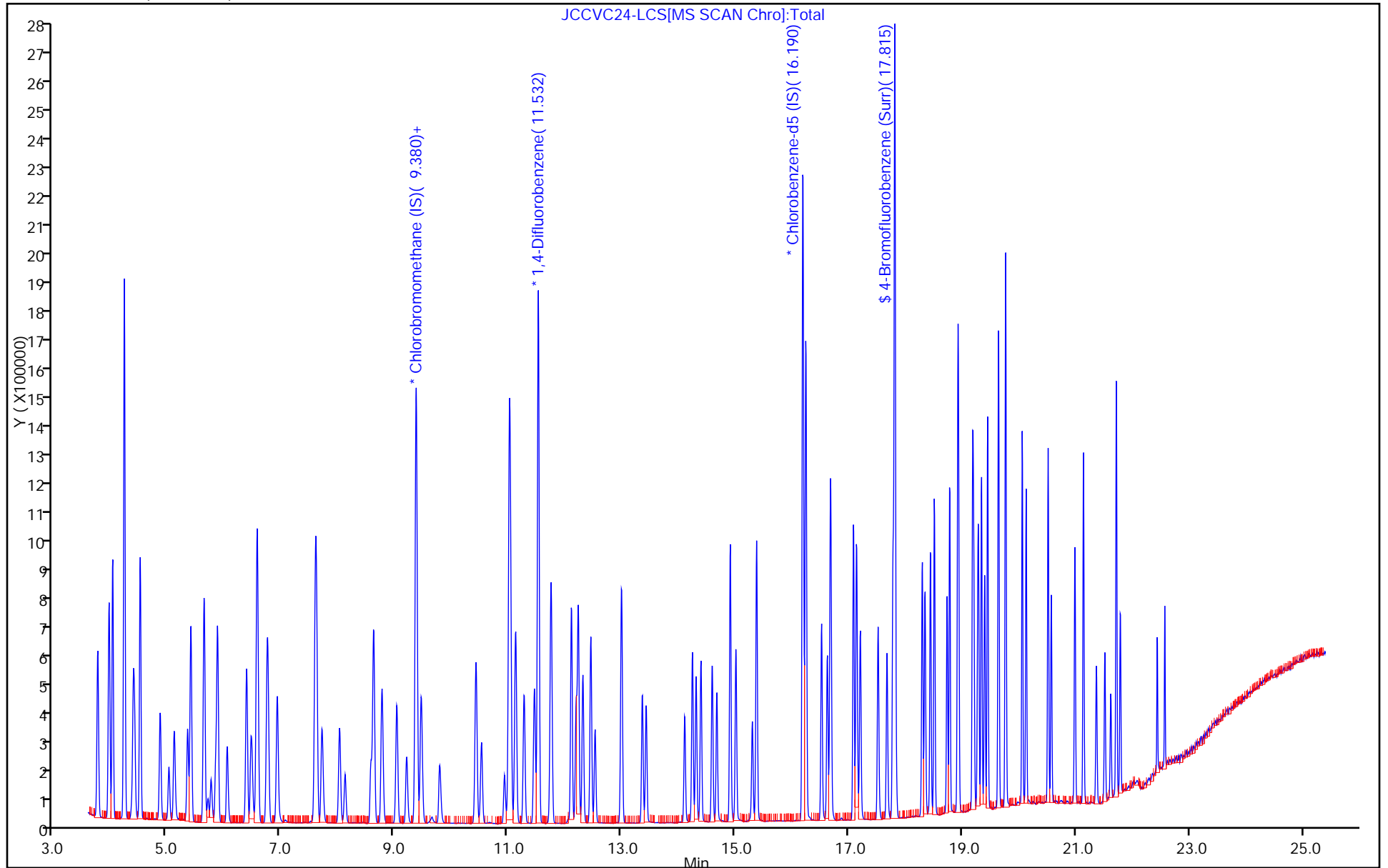
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/11/2014 12:12

Analysis Batch Number: 946 End Date: 03/11/2014 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-946/1		03/11/2014 12:12	1	JBFBC11.D	RTX-5 0.32 (mm)
IC 140-946/2		03/11/2014 12:40	1	JICC111.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 12:40	1		RTX-5 0.32 (mm)
IC 140-946/3		03/11/2014 13:35	1	JICC112.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 13:35	1		RTX-5 0.32 (mm)
IC 140-946/4		03/11/2014 14:29	1	JICC113.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 14:29	1		RTX-5 0.32 (mm)
IC 140-946/5		03/11/2014 15:23	1	JICC114.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 15:23	1		RTX-5 0.32 (mm)
IC 140-946/6		03/11/2014 16:17	1	JICC115.D	RTX-5 0.32 (mm)
ICIS 140-946/7		03/11/2014 17:11	1	JICC116.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 17:11	1		RTX-5 0.32 (mm)
IC 140-946/8		03/11/2014 18:06	1	JICC117.D	RTX-5 0.32 (mm)
IC 140-946/9		03/11/2014 19:02	1	JICC118.D	RTX-5 0.32 (mm)
IC 140-946/10		03/11/2014 19:57	1	JICC119.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 22:39	1		RTX-5 0.32 (mm)
ICV 140-946/14		03/11/2014 23:33	1	JLCS11.D	RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/21/2014 11:03

Analysis Batch Number: 984 End Date: 03/22/2014 07:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-984/1		03/21/2014 11:03	1	JBFBC21.D	RTX-5 0.32 (mm)
CCVIS 140-984/2		03/21/2014 11:30	1	JCCVC21.D	RTX-5 0.32 (mm)
LCS 140-984/1002		03/21/2014 11:30	1	JCCVC21-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 13:45	1		RTX-5 0.32 (mm)
MB 140-984/5		03/21/2014 14:39	1	200BLK.D	RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 15:32	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 16:26	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 17:20	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 18:13	1.66		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 19:07	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 20:00	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 20:53	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 21:46	1		RTX-5 0.32 (mm)
ZZZZZ		03/21/2014 22:40	1		RTX-5 0.32 (mm)
140-1073-1	SAMPLE 1- CRAWLSPACE	03/21/2014 23:34	1	JC21P110.D	RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 00:28	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 01:22	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 02:16	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 03:10	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 04:04	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 04:58	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 06:47	1		RTX-5 0.32 (mm)
ZZZZZ		03/22/2014 07:41	1		RTX-5 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/24/2014 08:45

Analysis Batch Number: 1000 End Date: 03/25/2014 05:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-1000/1		03/24/2014 08:45	1	JBFBC24.D	RTX-5 0.32 (mm)
CCVIS 140-1000/2		03/24/2014 09:12	1	JCCVC24.D	RTX-5 0.32 (mm)
LCS 140-1000/1002		03/24/2014 09:12	1	JCCVC24-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 10:59	1		RTX-5 0.32 (mm)
MB 140-1000/1004		03/24/2014 10:59	1	140-1086-a-15-M B.d	RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 11:53	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 12:47	1		RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 12:47	1		RTX-5 0.32 (mm)
140-1073-1 DL	SAMPLE 1- CRAWLSPACE DL	03/24/2014 22:33	1	JC24P112.D	RTX-5 0.32 (mm)
ZZZZZ		03/24/2014 23:27	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 00:21	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 01:16	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 02:10	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 03:04	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 03:59	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 04:54	1		RTX-5 0.32 (mm)
ZZZZZ		03/25/2014 05:49	1		RTX-5 0.32 (mm)

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-997-1
 SDG No.: _____
 Client Sample ID: 10898 Lab Sample ID: 140-997-11
 Matrix: Air Lab File ID: 140-997-a-11.D
 Analysis Method: TO 15 LL Date Collected: 03/05/2014 13:00
 Sample wt/vol: 500(mL) Date Analyzed: 03/06/2014 11:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 919 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-997-1
 SDG No.: _____
 Client Sample ID: 10898 Lab Sample ID: 140-997-11
 Matrix: Air Lab File ID: 140-997-a-11.D
 Analysis Method: TO 15 LL Date Collected: 03/05/2014 13:00
 Sample wt/vol: 500(mL) Date Analyzed: 03/06/2014 11:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 919 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-997-1
 SDG No.: _____
 Client Sample ID: 10898 Lab Sample ID: 140-997-11
 Matrix: Air Lab File ID: 140-997-a-11.D
 Analysis Method: TO 15 LL Date Collected: 03/05/2014 13:00
 Sample wt/vol: 500(mL) Date Analyzed: 03/06/2014 11:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 919 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-997-1
 SDG No.: _____
 Client Sample ID: 10898 Lab Sample ID: 140-997-11
 Matrix: Air Lab File ID: 140-997-a-11.D
 Analysis Method: TO 15 LL Date Collected: 03/05/2014 13:00
 Sample wt/vol: 500 (mL) Date Analyzed: 03/06/2014 11:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 919 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140305-500.b\140-997-a-11.D
 Lims ID: 140-997-A-11 Lab Sample ID: 140-997-11
 Client ID: 10898
 Sample Type: Client
 Inject. Date: 06-Mar-2014 11:57:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10898
 Misc. Info.: E030614,TO155,,140-0000500-004
 Operator ID: 7126 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140305-500.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 06-Mar-2014 13:16:09 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: tajh

Date: 06-Mar-2014 13:16:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.340	8.345	-0.005	78	324274	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	95	1604964	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.388	-0.001	89	1371927	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	87	1157048	3.85	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140305-500.b\140-997-a-11.D

Injection Date: 06-Mar-2014 11:57:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-997-A-11

Lab Sample ID: 140-997-11

Worklist Smp#: 4

Client ID: 10898

Purge Vol: 500.000 mL

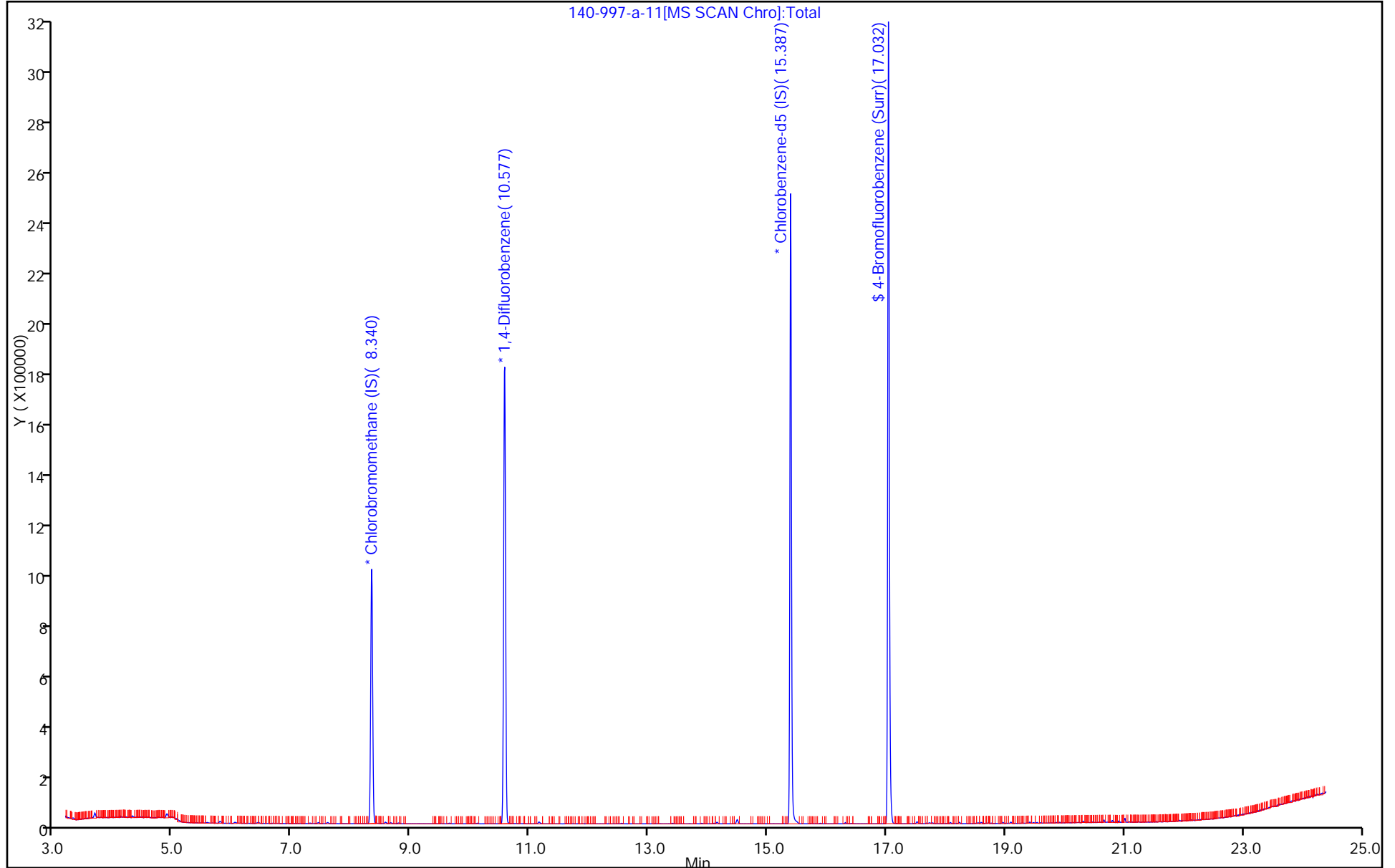
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Jennifer Pfeiffer		Sampled By: Jessica Ehlen		1 of 1 COCs											
Company: ATECOM		Phone: 516-581-7313															
Address: 125 Broad Street		Site Contact: Jessica Ehlen															
City/State/Zip: New York, NY 10004		TAL Contact: Jamie McKinney															
Phone: 212-377-8460																	
FAX: 212-377-8410																	
Project Name: Stuyvesant Town IA		Analysis Turnaround Time															
Site/location: Stuyvesant Town NYC		Standard (Specify) Standard															
PO #		Rush (Specify)															
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Sample 1 - Crawlspace	3/15/14	0727	1532	-30	-6.5	5175	09610	X					X				73 of
Sample 2 - Room #4	3/15/14	0820	1545	-30	-7.5	10162	34000296	X					X				72 of
Sample 3 - Room #2	3/15/14	0722	1525	-29.5	-5	2616	10811	X					X				72 of
Sample 4 - Ambient	3/15/14	0732	1457	-30	-5	10049	10313	X						X			53 of
Sample 5 - Room #11	3/15/14	0734	1528	-29	-6.5	11052	10123	X					X				68 of
Sampled by: J. Ehlen		Temperature (Fahrenheit)		Ambient		Interior		Start		Stop		Received @ ambient		No Custody seal		kgx 3/19/14	
J. Ehlen		48°		57°		Pressure (inches of Hg)		Ambient		Start		Fedex 50		Fedex 7982 352 2964		(3 cans; 3 flows)	
Special Instructions/QC Requirements & Comments:		* other = Temp of room in which samples were collected.															
Canisters Shipped by:		Date/Time:		3/19/14		Canisters Received by:		J. Ehlen		3/19/14		1015					
Samples Relinquished by:		Date/Time:		3/19/14		Received by:		J. Ehlen		3/19/14		1015					



140-1073 Chain of Custody

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1073-1

Login Number: 1073

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Appendix D

Data Usability Study Report (DUSR) (Provided on CD)



Environment

Submitted to:
ConEd
New York, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60313314-500
April 2014

April 17, 2014

Data Usability Summary Report
East 14th, 17th and 19th Street Station
Former Holder Sites
TestAmerica-Knoxville Air Data
March 2014 Sampling Event
Final



Environment

Submitted to:
ConEd
New York, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60313314-500
April 2014

Data Usability Summary Report East 14th, 17th and 19th Street Station Former Holder Sites TestAmerica-Knoxville Air Data March 2014 Sampling Event Final

Prepared By
Gregory Malzone, Project Chemist
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Gulf Tower
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Pittsburgh, PA 15219

Reviewed By
Helen Jones-Parry, Project Chemist
AECOM
250 Apollo Drive
Chelmsford, MA 01824

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3.0 Notes.....	3-1

List of Appendices

Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Overview

Indoor and ambient air sampling events were conducted at the ConEd/East 14st, 17th, and 19th Street Station Former Holder sites on March 13 and 15, 2014. The samples were analyzed by TestAmerica Laboratories, Inc., 5815 Middlebrook Pike, Knoxville, TN, 37921 (TestAmerica-Knoxville) using the following method as requested on the chain-of-custody (CoC) records.

- Volatile Organic Compounds by USEPA Compendium Method TO-15.

The data were evaluated for conformance to method specifications in *Compendium of Methods for the Determination of Toxic Organic Compounds in Air, Compendium Method TO-15: Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999 and qualifiers were applied using the validation criteria set forth in the *USEPA Region II Validation Standard Operating Procedure for Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15 SOP# HW-31, Revision #4, October, 2006* and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, USEPA-540-R-07-003, July 2008*, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, EPA 540/R-99-008, May 1999*, as they apply to the analytical method employed.

The project samples are listed in Table 1 below.

Table 1
Sample Submittals
ConEd/East 14st, 17th, and 19th Street Station Former Holder Sites

Field ID	TestAmerica ID	Matrix	Date Sampled
IA4-E14	140-1063-1	Indoor Air	3/13/2014
IA5-E14	140-1063-2	Indoor Air	3/13/2014
IA6-E14	140-1063-3	Indoor Air	3/13/2014
IA7-E14	140-1063-4	Indoor Air	3/13/2014
AMB-2	140-1063-5	Ambient Air	3/13/2014
AMB-4	140-1063-6	Ambient Air	3/13/2014
IA1-E14	140-1063-13	Indoor Air	3/13/2014
IA2-E14	140-1063-14	Indoor Air	3/13/2014
IA3-E14	140-1063-15	Indoor Air	3/13/2014
AMB-1	140-1063-19	Ambient Air	3/13/2014
AMB-3	140-1063-20	Indoor Air	3/13/2014
IA1-E19	140-1063-21	Indoor Air	3/13/2014

Table 1 (Continued)
Sample Submittals
ConEd/East 14st, 17th, and 19th Street Station Former Holder Sites

Field ID	TestAmerica ID	Matrix	Date Sampled
IA2-E19	140-1063-22	Indoor Air	3/13/2014
IA1-E17	140-1063-23	Indoor Air	3/13/2014
IA1FD-E17	140-1063-24	Indoor Air (QC)	3/13/2014
IA2-E17	140-1063-25	Indoor Air	3/13/2014
SAMPLE 1- CRAWLSPACE	140-1073-1	Indoor Air	3/15/2014
SAMPLE 2- ROOM # 4	140-1065-1	Indoor Air	3/15/2014
SAMPLE 3- ROOM # 2	140-1065-2	Indoor Air	3/15/2014
SAMPLE 4- AMBIENT	140-1065-3	Ambient Air	3/15/2014
SAMPLE 5- ROOM #11	140-1065-4	Indoor Air	3/15/2014

Summary

Data quality for the air and soil vapor analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, clean canister certification records, laboratory and field duplicates, compound identification, and compound quantitation.

The data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., air) with the qualifications described below. No data points were rejected. Completeness of 100% was achieved for this data set. The data qualification summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each nonconformance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

140-1063-1

Sample Custody and Integrity: The residual vacuum measurement taken upon receipt at TestAmerica-Knoxville for sample IA3-E14 was greater than -10 "Hg at -13.7 "Hg. The canister was less than half full upon receipt at TestAmerica-Knoxville. The required sampling interval was not achieved. TestAmerica-Knoxville determined that the sample canister could still be analyzed because no leaks were detected. The canister still contained sample from the site. TestAmerica-Knoxville analyzed a larger sample aliquot to achieve the low-level reporting limits and MDLs. No data qualifications were required.

The residual vacuum measurement taken upon receipt at TestAmerica-Knoxville for sample IA4-E14 was greater than -8.3 "Hg. TestAmerica-Knoxville analyzed a larger aliquot of sample (286 mls instead of the routine 200 mls) to achieve the low-level reporting limits and MDLs. No data qualifications were required.

Calibrations: The 03/11/14 initial calibration relative standard deviation (RSD) for acetone was greater than the quality control limit of 30% on instrument MJ. The acetone results for all samples within this sample delivery group were affected. All associated sample acetone results were positive and were qualified "J," as estimated concentrations, because of the nonconforming initial calibration.

The continuing calibration percent differences for acetone were less than the lower method specification limit of -20% on 03/18/14 at 10:16 and on 03/21/14 at 11:30 on instrument MJ. Samples IA5-E14, IA6-E14, IA7-E14, AMB-2, AMB-4, IA1-E14, IA2-E14 and IA3-E14 were affected. Samples IA5-E14, IA6-E14, IA7-E14, AMB-2, AMB-4, IA1-E14, IA2-E14 and IA3-E14 were positive for acetone and were qualified "J," as estimated concentrations, because of the low instrument/method bias.

Laboratory Control Sample Recoveries: The LCS 140-971/1002 and LCS 140-984/1002 recoveries for acetone were less than the lower quality control limit of 70%, but greater than 10%. Samples IA5-E14, IA6-E14, IA7-E14, AMB-2, AMB-4, IA1-E14, IA2-E14 and IA3-E14 were affected. Samples IA5-E14, IA6-E14, IA7-E14, AMB-2, AMB-4, IA1-E14, IA2-E14 and IA3-E14 were positive for acetone and were qualified "J," as estimated concentrations, because of the low instrument/method bias.

140-1065-1

Calibrations: The 03/11/14 initial calibration RSD for acetone was greater than the quality control limit of 30% on instrument MJ. The acetone results for samples SAMPLE 2- ROOM # 4, SAMPLE 3- ROOM # 2, SAMPLE 4- AMBIENT and SAMPLE 5- ROOM #11 were affected. All associated sample acetone results were positive and were qualified "J," as estimated concentrations, because of the nonconforming initial calibration.

Dilutions: Samples SAMPLE 2- ROOM # 4 and SAMPLE 3- ROOM # 2 required analyses at a dilution to bring the ethanol concentration into the calibration range. The 4-bromofluorobenzene surrogate recoveries were within the quality control limits. No data qualifications were required.

140-1073-1

Calibrations: The 03/11/14 initial calibration RSD for acetone was greater than the quality control limit of 30% on instrument MJ. The acetone result for sample SAMPLE 1- Crawlspace was affected. The associated sample acetone result was positive and was qualified "J," as an estimated concentration, because of the nonconforming initial calibration.

The continuing calibration percent difference for acetone was less than the lower method specification limit of -20% on 03/21/14 at 11:30 on instrument MJ. SAMPLE 1- Crawlspace was affected. The associated sample acetone result was positive and was qualified "J," as an estimated concentration, because of low instrument bias.

Dilutions: Sample SAMPLE 1- CRAWLSPACE required analysis at a dilution to bring the ethanol concentration into the calibration range. The 4-bromofluorobenzene surrogate recovery was within the quality control limits. No data qualifications were required.

2.0 Field Duplicate Comparison

A field duplicate sample was collected for IA1-E17. The results for the parent and field duplicate samples were non-detects, with exception to those compounds listed in Table 2 below. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be $\leq 25\%$ for results greater than or equal to five times the reporting limit. If one of the results is non-detect or less than five times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to the reporting limit.

Action applies only to the affected analyte in the organic duplicate sample pair. The primary and field duplicate results in bolded text required qualification (i.e., "J/UJ") as estimates, because of field sampling and/or laboratory imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

RPD: Relative percent difference

NC: The RPD could not be calculated.

ppb v/v: Part per billion by volume

\pm RL: The difference between the parent and field duplicate results was less than or equal to the reporting limit for results up to five times the reporting limit. Variation of this magnitude is acceptable.

Table 2
Field Duplicate Precision
ConEd/East 21st Street Former MGP Site

Parameter	IA1-E17		IA1FD-E17		RPD (%)	Qual
Freon-113	0.071 J	ppb v/v	0.068 J	ppb v/v	4.3	
1,3-Butadiene	0.14 J	ppb v/v	0.13 J	ppb v/v	7.4	
2-Butanone	0.36 J	ppb v/v	0.27 J	ppb v/v	29	±RL
2-Methylbutane	0.64	ppb v/v	0.61	ppb v/v	4.8	
4-Methyl-2-pentanone	0.97	ppb v/v	0.50 U	ppb v/v	NC	J/UJ
Acetone	2.3 J	ppb v/v	2.6 J	ppb v/v	12	
Benzene	0.24	ppb v/v	0.24	ppb v/v	0	
Carbon tetrachloride	0.067 J	ppb v/v	0.066 J	ppb v/v	1.5	
Chloroform	0.050 J	ppb v/v	0.052 J	ppb v/v	3.9	
Chloromethane	0.60	ppb v/v	0.56	ppb v/v	6.9	
Freon-12	0.43	ppb v/v	0.43	ppb v/v	0	
Ethanol	19	ppb v/v	18	ppb v/v	5.4	
Heptane	0.058 J	ppb v/v	0.076 J	ppb v/v	27	±RL
Hexane	0.12 J	ppb v/v	0.14 J	ppb v/v	15	
Isopropyl alcohol	5.9	ppb v/v	5.4	ppb v/v	8.8	
Methylene chloride	0.23 J	ppb v/v	0.30 J	ppb v/v	26	±RL
m&p-Xylene	0.16 J	ppb v/v	0.15 J	ppb v/v	6.5	
o-Xylene	0.063 J	ppb v/v	0.062 J	ppb v/v	1.6	
Propene	2.6	ppb v/v	2.4	ppb v/v	8.0	
Tetrachloroethene	0.050 J	ppb v/v	0.042 J	ppb v/v	17	
Toluene	0.82	ppb v/v	0.63	ppb v/v	26	±RL
Freon-11	0.20	ppb v/v	0.20	ppb v/v	0	

3.0 Notes

Clean Canisters: All six-liter canisters for this project except 09610 (SAMPLE 1 - Crawlspace) and 10811 (SAMPLE 3 – Room #2) were individually certified clean. The six-liter canisters for 09610 (SAMPLE 1 - Crawlspace) and 10811 (SAMPLE 3 – Room #2) were requested from the service center on short notice and were certified clean by batch. The chromatogram for the batch canister was provided for review and was clean.

Data Reporting: Positive organic compound results less than the reporting limit (i.e., practical quantitation limit), but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. These “J” qualifiers were maintained in this data validation.

Propene Quantitation: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. The positive propene results were qualified “J,” as estimated concentrations, biased high because of matrix interference.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.
- J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Date Collected: 03/13/14 17:12

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.065	J	0.20	0.030	ppb v/v			03/19/14 16:52	1.43
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 16:52	1.43
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v			03/19/14 16:52	1.43
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 16:52	1.43
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 16:52	1.43
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 16:52	1.43
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 16:52	1.43
1,2,4-Trimethylbenzene	0.075	J	0.20	0.063	ppb v/v			03/19/14 16:52	1.43
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 16:52	1.43
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 16:52	1.43
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 16:52	1.43
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 16:52	1.43
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 16:52	1.43
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 16:52	1.43
1,4-Dichlorobenzene	0.079	J	0.20	0.064	ppb v/v			03/19/14 16:52	1.43
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 16:52	1.43
2,2,4-Trimethylpentane	0.071	J	0.50	0.039	ppb v/v			03/19/14 16:52	1.43
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
2-Butanone (MEK)	0.55	J	1.0	0.20	ppb v/v			03/19/14 16:52	1.43
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 16:52	1.43
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v			03/19/14 16:52	1.43
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 16:52	1.43
4-Methyl-2-pentanone (MIBK)	0.24	J	0.50	0.045	ppb v/v			03/19/14 16:52	1.43
Acetone	3.5	J	5.0	1.4	ppb v/v			03/19/14 16:52	1.43
Benzene	0.26		0.20	0.056	ppb v/v			03/19/14 16:52	1.43
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 16:52	1.43
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 16:52	1.43
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 16:52	1.43
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 16:52	1.43
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 16:52	1.43
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/19/14 16:52	1.43
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 16:52	1.43
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 16:52	1.43
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 16:52	1.43
Chloromethane	0.51		0.50	0.16	ppb v/v			03/19/14 16:52	1.43
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 16:52	1.43
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 16:52	1.43
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 16:52	1.43
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 16:52	1.43
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 16:52	1.43
Ethanol	23		2.0	2.0	ppb v/v			03/19/14 16:52	1.43
Ethylbenzene	0.079	J	0.20	0.068	ppb v/v			03/19/14 16:52	1.43
Heptane	0.098	J	0.50	0.047	ppb v/v			03/19/14 16:52	1.43
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 16:52	1.43

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Date Collected: 03/13/14 17:12

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane	0.13	J	0.50	0.032	ppb v/v			03/19/14 16:52	1.43
Indane	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
Indene	ND		0.40	0.40	ppb v/v			03/19/14 16:52	1.43
Isopropyl alcohol	2.6		2.0	0.094	ppb v/v			03/19/14 16:52	1.43
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 16:52	1.43
Methylene Chloride	0.36	J	0.50	0.13	ppb v/v			03/19/14 16:52	1.43
m-Xylene & p-Xylene	0.25		0.20	0.12	ppb v/v			03/19/14 16:52	1.43
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 16:52	1.43
o-Xylene	0.095	J	0.20	0.061	ppb v/v			03/19/14 16:52	1.43
Propene	0.55	en-J	0.50	0.077	ppb v/v			03/19/14 16:52	1.43
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 16:52	1.43
Tetrachloroethene	0.15	J	0.20	0.040	ppb v/v			03/19/14 16:52	1.43
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 16:52	1.43
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 16:52	1.43
Toluene	0.99		0.20	0.12	ppb v/v			03/19/14 16:52	1.43
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 16:52	1.43
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 16:52	1.43
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 16:52	1.43
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/19/14 16:52	1.43
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 16:52	1.43
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.36	J	1.1	0.16	ug/m3			03/19/14 16:52	1.43
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 16:52	1.43
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/19/14 16:52	1.43
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 16:52	1.43
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 16:52	1.43
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 16:52	1.43
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 16:52	1.43
1,2,4-Trimethylbenzene	0.37	J	0.98	0.31	ug/m3			03/19/14 16:52	1.43
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 16:52	1.43
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 16:52	1.43
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 16:52	1.43
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 16:52	1.43
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 16:52	1.43
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 16:52	1.43
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 16:52	1.43
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 16:52	1.43
1,4-Dichlorobenzene	0.48	J	1.2	0.38	ug/m3			03/19/14 16:52	1.43
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 16:52	1.43
2,2,4-Trimethylpentane	0.33	J	2.3	0.18	ug/m3			03/19/14 16:52	1.43
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 16:52	1.43
2-Butanone (MEK)	1.6	J	2.9	0.59	ug/m3			03/19/14 16:52	1.43
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 16:52	1.43
2-Methylbutane	1.1	J	1.5	0.091	ug/m3			03/19/14 16:52	1.43
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 16:52	1.43
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 16:52	1.43
4-Methyl-2-pentanone (MIBK)	1.0	J	2.0	0.18	ug/m3			03/19/14 16:52	1.43

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA4-E14

Lab Sample ID: 140-1063-1

Date Collected: 03/13/14 17:12

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.2	J	12	3.3	ug/m3			03/19/14 16:52	1.43
Benzene	0.82		0.64	0.18	ug/m3			03/19/14 16:52	1.43
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 16:52	1.43
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 16:52	1.43
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 16:52	1.43
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 16:52	1.43
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 16:52	1.43
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 16:52	1.43
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 16:52	1.43
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 16:52	1.43
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 16:52	1.43
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 16:52	1.43
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 16:52	1.43
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 16:52	1.43
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 16:52	1.43
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 16:52	1.43
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 16:52	1.43
Ethanol	44		3.8	3.8	ug/m3			03/19/14 16:52	1.43
Ethylbenzene	0.34	J	0.87	0.30	ug/m3			03/19/14 16:52	1.43
Heptane	0.40	J	2.0	0.19	ug/m3			03/19/14 16:52	1.43
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 16:52	1.43
Hexane	0.45	J	1.8	0.11	ug/m3			03/19/14 16:52	1.43
Indane	ND		0.97	0.97	ug/m3			03/19/14 16:52	1.43
Indene	ND		1.9	1.9	ug/m3			03/19/14 16:52	1.43
Isopropyl alcohol	6.3		4.9	0.23	ug/m3			03/19/14 16:52	1.43
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 16:52	1.43
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/19/14 16:52	1.43
m-Xylene & p-Xylene	1.1		0.87	0.52	ug/m3			03/19/14 16:52	1.43
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 16:52	1.43
o-Xylene	0.41	J	0.87	0.26	ug/m3			03/19/14 16:52	1.43
Propene	0.94	en-J	0.86	0.13	ug/m3			03/19/14 16:52	1.43
Styrene	ND		0.85	0.25	ug/m3			03/19/14 16:52	1.43
Tetrachloroethene	0.99	J	1.4	0.27	ug/m3			03/19/14 16:52	1.43
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 16:52	1.43
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 16:52	1.43
Toluene	3.7		0.75	0.45	ug/m3			03/19/14 16:52	1.43
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 16:52	1.43
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 16:52	1.43
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 16:52	1.43
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 16:52	1.43
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 16:52	1.43
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		60 - 140					03/19/14 16:52	1.43

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Date Collected: 03/13/14 16:40

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 23:43	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.064	J	0.20	0.031	ppb v/v			03/18/14 23:43	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 23:43	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 23:43	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 23:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 23:43	1
1,2,4-Trimethylbenzene	0.098	J	0.20	0.063	ppb v/v			03/18/14 23:43	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 23:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 23:43	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 23:43	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 23:43	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 23:43	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 23:43	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 23:43	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 23:43	1
1,4-Dichlorobenzene	0.078	J	0.20	0.064	ppb v/v			03/18/14 23:43	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 23:43	1
2,2,4-Trimethylpentane	0.081	J	0.50	0.039	ppb v/v			03/18/14 23:43	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
2-Butanone (MEK)	0.62	J	1.0	0.20	ppb v/v			03/18/14 23:43	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 23:43	1
2-Methylbutane	2.6		0.50	0.031	ppb v/v			03/18/14 23:43	1
2-Methylpentane	0.24		0.20	0.20	ppb v/v			03/18/14 23:43	1
4-Ethyltoluene	0.072	J	0.40	0.066	ppb v/v			03/18/14 23:43	1
4-Methyl-2-pentanone (MIBK)	0.098	J	0.50	0.045	ppb v/v			03/18/14 23:43	1
Acetone	6.7	J	5.0	1.4	ppb v/v			03/18/14 23:43	1
Benzene	0.40		0.20	0.056	ppb v/v			03/18/14 23:43	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 23:43	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 23:43	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 23:43	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 23:43	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 23:43	1
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v			03/18/14 23:43	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 23:43	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 23:43	1
Chloroform	0.11	J	0.20	0.038	ppb v/v			03/18/14 23:43	1
Chloromethane	0.59		0.50	0.16	ppb v/v			03/18/14 23:43	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 23:43	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 23:43	1
Cyclohexane	0.38	J	0.50	0.040	ppb v/v			03/18/14 23:43	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 23:43	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/18/14 23:43	1
Ethanol	98		2.0	2.0	ppb v/v			03/18/14 23:43	1
Ethylbenzene	0.11	J	0.20	0.068	ppb v/v			03/18/14 23:43	1
Heptane	0.19	J	0.50	0.047	ppb v/v			03/18/14 23:43	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 23:43	1
Hexane	0.35	J	0.50	0.032	ppb v/v			03/18/14 23:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Date Collected: 03/13/14 16:40

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 23:43	1
Isopropyl alcohol	4.9		2.0	0.094	ppb v/v			03/18/14 23:43	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 23:43	1
Methylene Chloride	0.71		0.50	0.13	ppb v/v			03/18/14 23:43	1
m-Xylene & p-Xylene	0.32		0.20	0.12	ppb v/v			03/18/14 23:43	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 23:43	1
o-Xylene	0.13	J	0.20	0.061	ppb v/v			03/18/14 23:43	1
Propene	2.2	en J	0.50	0.077	ppb v/v			03/18/14 23:43	1
Styrene	0.068	J	0.20	0.058	ppb v/v			03/18/14 23:43	1
Tetrachloroethene	0.27		0.20	0.040	ppb v/v			03/18/14 23:43	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 23:43	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 23:43	1
Toluene	2.1		0.20	0.12	ppb v/v			03/18/14 23:43	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 23:43	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 23:43	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 23:43	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/18/14 23:43	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 23:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	J	1.5	0.24	ug/m3			03/18/14 23:43	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 23:43	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 23:43	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 23:43	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 23:43	1
1,2,4-Trimethylbenzene	0.48	J	0.98	0.31	ug/m3			03/18/14 23:43	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 23:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 23:43	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 23:43	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 23:43	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 23:43	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 23:43	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 23:43	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 23:43	1
1,4-Dichlorobenzene	0.47	J	1.2	0.38	ug/m3			03/18/14 23:43	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 23:43	1
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3			03/18/14 23:43	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 23:43	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/18/14 23:43	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 23:43	1
2-Methylbutane	7.6		1.5	0.091	ug/m3			03/18/14 23:43	1
2-Methylpentane	0.84		0.70	0.70	ug/m3			03/18/14 23:43	1
4-Ethyltoluene	0.36	J	2.0	0.32	ug/m3			03/18/14 23:43	1
4-Methyl-2-pentanone (MIBK)	0.40	J	2.0	0.18	ug/m3			03/18/14 23:43	1
Acetone	16	J	12	3.3	ug/m3			03/18/14 23:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA5-E14

Lab Sample ID: 140-1063-2

Date Collected: 03/13/14 16:40

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		0.64	0.18	ug/m3			03/18/14 23:43	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 23:43	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 23:43	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 23:43	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 23:43	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 23:43	1
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3			03/18/14 23:43	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 23:43	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 23:43	1
Chloroform	0.56	J	0.98	0.19	ug/m3			03/18/14 23:43	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/18/14 23:43	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 23:43	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 23:43	1
Cyclohexane	1.3	J	1.7	0.14	ug/m3			03/18/14 23:43	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 23:43	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/18/14 23:43	1
Ethanol	190		3.8	3.8	ug/m3			03/18/14 23:43	1
Ethylbenzene	0.49	J	0.87	0.30	ug/m3			03/18/14 23:43	1
Heptane	0.76	J	2.0	0.19	ug/m3			03/18/14 23:43	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 23:43	1
Hexane	1.2	J	1.8	0.11	ug/m3			03/18/14 23:43	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 23:43	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 23:43	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/18/14 23:43	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 23:43	1
Methylene Chloride	2.5		1.7	0.45	ug/m3			03/18/14 23:43	1
m-Xylene & p-Xylene	1.4		0.87	0.52	ug/m3			03/18/14 23:43	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 23:43	1
o-Xylene	0.55	J	0.87	0.26	ug/m3			03/18/14 23:43	1
Propene	3.8	en J	0.86	0.13	ug/m3			03/18/14 23:43	1
Styrene	0.29	J	0.85	0.25	ug/m3			03/18/14 23:43	1
Tetrachloroethene	1.8		1.4	0.27	ug/m3			03/18/14 23:43	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 23:43	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 23:43	1
Toluene	8.0		0.75	0.45	ug/m3			03/18/14 23:43	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 23:43	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 23:43	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 23:43	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/18/14 23:43	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/18/14 23:43	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 00:36	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/19/14 00:36	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 00:36	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 00:36	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 00:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 00:36	1
1,2,4-Trimethylbenzene	0.065	J	0.20	0.063	ppb v/v			03/19/14 00:36	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 00:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 00:36	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 00:36	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 00:36	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 00:36	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 00:36	1
1,3-Butadiene	0.066	J	0.40	0.064	ppb v/v			03/19/14 00:36	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 00:36	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 00:36	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 00:36	1
2,2,4-Trimethylpentane	0.095	J	0.50	0.039	ppb v/v			03/19/14 00:36	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
2-Butanone (MEK)	0.35	J	1.0	0.20	ppb v/v			03/19/14 00:36	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 00:36	1
2-Methylbutane	0.44	J	0.50	0.031	ppb v/v			03/19/14 00:36	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 00:36	1
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v			03/19/14 00:36	1
Acetone	2.7	J	5.0	1.4	ppb v/v			03/19/14 00:36	1
Benzene	0.30		0.20	0.056	ppb v/v			03/19/14 00:36	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 00:36	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 00:36	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 00:36	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 00:36	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 00:36	1
Carbon tetrachloride	0.064	J	0.20	0.038	ppb v/v			03/19/14 00:36	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 00:36	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 00:36	1
Chloroform	0.095	J	0.20	0.038	ppb v/v			03/19/14 00:36	1
Chloromethane	0.50		0.50	0.16	ppb v/v			03/19/14 00:36	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 00:36	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 00:36	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 00:36	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 00:36	1
Dichlorodifluoromethane	0.41		0.20	0.068	ppb v/v			03/19/14 00:36	1
Ethanol	35		2.0	2.0	ppb v/v			03/19/14 00:36	1
Ethylbenzene	0.073	J	0.20	0.068	ppb v/v			03/19/14 00:36	1
Heptane	0.074	J	0.50	0.047	ppb v/v			03/19/14 00:36	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 00:36	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/19/14 00:36	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 00:36	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/19/14 00:36	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 00:36	1
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v			03/19/14 00:36	1
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v			03/19/14 00:36	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 00:36	1
o-Xylene	0.086	J	0.20	0.061	ppb v/v			03/19/14 00:36	1
Propene	0.97	en J	0.50	0.077	ppb v/v			03/19/14 00:36	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 00:36	1
Tetrachloroethene	0.25		0.20	0.040	ppb v/v			03/19/14 00:36	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 00:36	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 00:36	1
Toluene	0.42		0.20	0.12	ppb v/v			03/19/14 00:36	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 00:36	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 00:36	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 00:36	1
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v			03/19/14 00:36	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 00:36	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 00:36	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 00:36	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 00:36	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 00:36	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 00:36	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 00:36	1
1,2,4-Trimethylbenzene	0.32	J	0.98	0.31	ug/m3			03/19/14 00:36	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 00:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 00:36	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 00:36	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 00:36	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 00:36	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 00:36	1
1,3-Butadiene	0.15	J	0.88	0.14	ug/m3			03/19/14 00:36	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 00:36	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 00:36	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 00:36	1
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3			03/19/14 00:36	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 00:36	1
2-Butanone (MEK)	1.0	J	2.9	0.59	ug/m3			03/19/14 00:36	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 00:36	1
2-Methylbutane	1.3	J	1.5	0.091	ug/m3			03/19/14 00:36	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 00:36	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 00:36	1
4-Methyl-2-pentanone (MIBK)	0.56	J	2.0	0.18	ug/m3			03/19/14 00:36	1
Acetone	6.5	J	12	3.3	ug/m3			03/19/14 00:36	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA6-E14

Lab Sample ID: 140-1063-3

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.95		0.64	0.18	ug/m3			03/19/14 00:36	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 00:36	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 00:36	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 00:36	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 00:36	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 00:36	1
Carbon tetrachloride	0.41	J	1.3	0.24	ug/m3			03/19/14 00:36	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 00:36	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 00:36	1
Chloroform	0.47	J	0.98	0.19	ug/m3			03/19/14 00:36	1
Chloromethane	1.0		1.0	0.33	ug/m3			03/19/14 00:36	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 00:36	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 00:36	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 00:36	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 00:36	1
Dichlorodifluoromethane	2.0		0.99	0.34	ug/m3			03/19/14 00:36	1
Ethanol	66		3.8	3.8	ug/m3			03/19/14 00:36	1
Ethylbenzene	0.32	J	0.87	0.30	ug/m3			03/19/14 00:36	1
Heptane	0.30	J	2.0	0.19	ug/m3			03/19/14 00:36	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 00:36	1
Hexane	0.51	J	1.8	0.11	ug/m3			03/19/14 00:36	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 00:36	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 00:36	1
Isopropyl alcohol	2.9	J	4.9	0.23	ug/m3			03/19/14 00:36	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 00:36	1
Methylene Chloride	0.99	J	1.7	0.45	ug/m3			03/19/14 00:36	1
m-Xylene & p-Xylene	0.95		0.87	0.52	ug/m3			03/19/14 00:36	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 00:36	1
o-Xylene	0.37	J	0.87	0.26	ug/m3			03/19/14 00:36	1
Propene	1.7	en-J	0.86	0.13	ug/m3			03/19/14 00:36	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 00:36	1
Tetrachloroethene	1.7		1.4	0.27	ug/m3			03/19/14 00:36	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 00:36	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 00:36	1
Toluene	1.6		0.75	0.45	ug/m3			03/19/14 00:36	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 00:36	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 00:36	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 00:36	1
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3			03/19/14 00:36	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/19/14 00:36	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Date Collected: 03/13/14 15:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 01:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v			03/19/14 01:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 01:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 01:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 01:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 01:31	1
1,2,4-Trimethylbenzene	0.090	J	0.20	0.063	ppb v/v			03/19/14 01:31	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 01:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 01:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 01:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 01:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 01:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 01:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 01:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 01:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 01:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 01:31	1
2,2,4-Trimethylpentane	0.12	J	0.50	0.039	ppb v/v			03/19/14 01:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
2-Butanone (MEK)	0.21	J	1.0	0.20	ppb v/v			03/19/14 01:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 01:31	1
2-Methylbutane	0.53		0.50	0.031	ppb v/v			03/19/14 01:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 01:31	1
4-Methyl-2-pentanone (MIBK)	0.49	J	0.50	0.045	ppb v/v			03/19/14 01:31	1
Acetone	2.4	J	5.0	1.4	ppb v/v			03/19/14 01:31	1
Benzene	0.31		0.20	0.056	ppb v/v			03/19/14 01:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 01:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 01:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 01:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 01:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 01:31	1
Carbon tetrachloride	0.075	J	0.20	0.038	ppb v/v			03/19/14 01:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 01:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 01:31	1
Chloroform	0.37		0.20	0.038	ppb v/v			03/19/14 01:31	1
Chloromethane	0.51		0.50	0.16	ppb v/v			03/19/14 01:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 01:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 01:31	1
Cyclohexane	0.048	J	0.50	0.040	ppb v/v			03/19/14 01:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 01:31	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 01:31	1
Ethanol	36		2.0	2.0	ppb v/v			03/19/14 01:31	1
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v			03/19/14 01:31	1
Heptane	0.086	J	0.50	0.047	ppb v/v			03/19/14 01:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 01:31	1
Hexane	0.22	J	0.50	0.032	ppb v/v			03/19/14 01:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Date Collected: 03/13/14 15:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 01:31	1
Isopropyl alcohol	4.8		2.0	0.094	ppb v/v			03/19/14 01:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 01:31	1
Methylene Chloride	0.42	J	0.50	0.13	ppb v/v			03/19/14 01:31	1
m-Xylene & p-Xylene	0.30		0.20	0.12	ppb v/v			03/19/14 01:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 01:31	1
o-Xylene	0.12	J	0.20	0.061	ppb v/v			03/19/14 01:31	1
Propene	0.77	en-J	0.50	0.077	ppb v/v			03/19/14 01:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 01:31	1
Tetrachloroethene	0.19	J	0.20	0.040	ppb v/v			03/19/14 01:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 01:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 01:31	1
Toluene	0.62		0.20	0.12	ppb v/v			03/19/14 01:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 01:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 01:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 01:31	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 01:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 01:31	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 01:31	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/19/14 01:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 01:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 01:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 01:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 01:31	1
1,2,4-Trimethylbenzene	0.44	J	0.98	0.31	ug/m3			03/19/14 01:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 01:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 01:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 01:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 01:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 01:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 01:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 01:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 01:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 01:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 01:31	1
2,2,4-Trimethylpentane	0.58	J	2.3	0.18	ug/m3			03/19/14 01:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 01:31	1
2-Butanone (MEK)	0.61	J	2.9	0.59	ug/m3			03/19/14 01:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 01:31	1
2-Methylbutane	1.6		1.5	0.091	ug/m3			03/19/14 01:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 01:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 01:31	1
4-Methyl-2-pentanone (MIBK)	2.0	J	2.0	0.18	ug/m3			03/19/14 01:31	1
Acetone	5.6	J	12	3.3	ug/m3			03/19/14 01:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA7-E14

Lab Sample ID: 140-1063-4

Date Collected: 03/13/14 15:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.98		0.64	0.18	ug/m3			03/19/14 01:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 01:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 01:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 01:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 01:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 01:31	1
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3			03/19/14 01:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 01:31	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 01:31	1
Chloroform	1.8		0.98	0.19	ug/m3			03/19/14 01:31	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 01:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 01:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 01:31	1
Cyclohexane	0.17	J	1.7	0.14	ug/m3			03/19/14 01:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 01:31	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 01:31	1
Ethanol	67		3.8	3.8	ug/m3			03/19/14 01:31	1
Ethylbenzene	0.44	J	0.87	0.30	ug/m3			03/19/14 01:31	1
Heptane	0.35	J	2.0	0.19	ug/m3			03/19/14 01:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 01:31	1
Hexane	0.77	J	1.8	0.11	ug/m3			03/19/14 01:31	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 01:31	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 01:31	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/19/14 01:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 01:31	1
Methylene Chloride	1.5	J	1.7	0.45	ug/m3			03/19/14 01:31	1
m-Xylene & p-Xylene	1.3		0.87	0.52	ug/m3			03/19/14 01:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 01:31	1
o-Xylene	0.51	J	0.87	0.26	ug/m3			03/19/14 01:31	1
Propene	1.3	on J	0.86	0.13	ug/m3			03/19/14 01:31	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 01:31	1
Tetrachloroethene	1.3	J	1.4	0.27	ug/m3			03/19/14 01:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 01:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 01:31	1
Toluene	2.3		0.75	0.45	ug/m3			03/19/14 01:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 01:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 01:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 01:31	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 01:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		60 - 140					03/19/14 01:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Date Collected: 03/13/14 16:48

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 02:25	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/19/14 02:25	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 02:25	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 02:25	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 02:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 02:25	1
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v			03/19/14 02:25	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 02:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 02:25	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 02:25	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 02:25	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 02:25	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 02:25	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 02:25	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 02:25	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 02:25	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 02:25	1
2,2,4-Trimethylpentane	0.059	J	0.50	0.039	ppb v/v			03/19/14 02:25	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v			03/19/14 02:25	1
2-Hexanone	0.13	J	0.50	0.058	ppb v/v			03/19/14 02:25	1
2-Methylbutane	0.29	J	0.50	0.031	ppb v/v			03/19/14 02:25	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 02:25	1
4-Methyl-2-pentanone (MIBK)	0.52		0.50	0.045	ppb v/v			03/19/14 02:25	1
Acetone	6.0	J	5.0	1.4	ppb v/v			03/19/14 02:25	1
Benzene	0.24		0.20	0.056	ppb v/v			03/19/14 02:25	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 02:25	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 02:25	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 02:25	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 02:25	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 02:25	1
Carbon tetrachloride	0.071	J	0.20	0.038	ppb v/v			03/19/14 02:25	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 02:25	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 02:25	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 02:25	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/19/14 02:25	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 02:25	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 02:25	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 02:25	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 02:25	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/19/14 02:25	1
Ethanol	9.2		2.0	2.0	ppb v/v			03/19/14 02:25	1
Ethylbenzene	0.075	J	0.20	0.068	ppb v/v			03/19/14 02:25	1
Heptane	0.055	J	0.50	0.047	ppb v/v			03/19/14 02:25	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 02:25	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/19/14 02:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Date Collected: 03/13/14 16:48

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 02:25	1
Isopropyl alcohol	0.99	J	2.0	0.094	ppb v/v			03/19/14 02:25	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 02:25	1
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v			03/19/14 02:25	1
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v			03/19/14 02:25	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 02:25	1
o-Xylene	0.087	J	0.20	0.061	ppb v/v			03/19/14 02:25	1
Propene	0.79	en-J	0.50	0.077	ppb v/v			03/19/14 02:25	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 02:25	1
Tetrachloroethene	0.33		0.20	0.040	ppb v/v			03/19/14 02:25	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 02:25	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 02:25	1
Toluene	0.39		0.20	0.12	ppb v/v			03/19/14 02:25	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 02:25	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 02:25	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 02:25	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 02:25	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 02:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 02:25	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/19/14 02:25	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 02:25	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 02:25	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 02:25	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 02:25	1
1,2,4-Trimethylbenzene	0.33	J	0.98	0.31	ug/m3			03/19/14 02:25	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 02:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 02:25	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 02:25	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 02:25	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 02:25	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 02:25	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 02:25	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 02:25	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 02:25	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 02:25	1
2,2,4-Trimethylpentane	0.28	J	2.3	0.18	ug/m3			03/19/14 02:25	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 02:25	1
2-Butanone (MEK)	3.3		2.9	0.59	ug/m3			03/19/14 02:25	1
2-Hexanone	0.52	J	2.0	0.24	ug/m3			03/19/14 02:25	1
2-Methylbutane	0.85	J	1.5	0.091	ug/m3			03/19/14 02:25	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 02:25	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 02:25	1
4-Methyl-2-pentanone (MIBK)	2.1		2.0	0.18	ug/m3			03/19/14 02:25	1
Acetone	14	J	12	3.3	ug/m3			03/19/14 02:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-2

Lab Sample ID: 140-1063-5

Date Collected: 03/13/14 16:48

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.77		0.64	0.18	ug/m3			03/19/14 02:25	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 02:25	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 02:25	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 02:25	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 02:25	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 02:25	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 02:25	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 02:25	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 02:25	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 02:25	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 02:25	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 02:25	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 02:25	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 02:25	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 02:25	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 02:25	1
Ethanol	17		3.8	3.8	ug/m3			03/19/14 02:25	1
Ethylbenzene	0.33	J	0.87	0.30	ug/m3			03/19/14 02:25	1
Heptane	0.22	J	2.0	0.19	ug/m3			03/19/14 02:25	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 02:25	1
Hexane	0.49	J	1.8	0.11	ug/m3			03/19/14 02:25	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 02:25	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 02:25	1
Isopropyl alcohol	2.4	J	4.9	0.23	ug/m3			03/19/14 02:25	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 02:25	1
Methylene Chloride	0.95	J	1.7	0.45	ug/m3			03/19/14 02:25	1
m-Xylene & p-Xylene	0.96		0.87	0.52	ug/m3			03/19/14 02:25	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 02:25	1
o-Xylene	0.38	J	0.87	0.26	ug/m3			03/19/14 02:25	1
Propene	1.4	en-J	0.86	0.13	ug/m3			03/19/14 02:25	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 02:25	1
Tetrachloroethene	2.2		1.4	0.27	ug/m3			03/19/14 02:25	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 02:25	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 02:25	1
Toluene	1.5		0.75	0.45	ug/m3			03/19/14 02:25	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 02:25	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 02:25	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 02:25	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 02:25	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		60 - 140					03/19/14 02:25	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Date Collected: 03/13/14 16:49

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 03:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/19/14 03:20	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 03:20	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 03:20	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 03:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 03:20	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 03:20	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 03:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 03:20	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 03:20	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 03:20	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 03:20	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 03:20	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 03:20	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 03:20	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 03:20	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 03:20	1
2,2,4-Trimethylpentane	0.047	J	0.50	0.039	ppb v/v			03/19/14 03:20	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
2-Butanone (MEK)	0.61	J	1.0	0.20	ppb v/v			03/19/14 03:20	1
2-Hexanone	0.058	J	0.50	0.058	ppb v/v			03/19/14 03:20	1
2-Methylbutane	0.27	J	0.50	0.031	ppb v/v			03/19/14 03:20	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 03:20	1
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v			03/19/14 03:20	1
Acetone	3.2	J	5.0	1.4	ppb v/v			03/19/14 03:20	1
Benzene	0.22		0.20	0.056	ppb v/v			03/19/14 03:20	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 03:20	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 03:20	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 03:20	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 03:20	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 03:20	1
Carbon tetrachloride	0.068	J	0.20	0.038	ppb v/v			03/19/14 03:20	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 03:20	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 03:20	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 03:20	1
Chloromethane	0.49	J	0.50	0.16	ppb v/v			03/19/14 03:20	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 03:20	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 03:20	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 03:20	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 03:20	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/19/14 03:20	1
Ethanol	8.0		2.0	2.0	ppb v/v			03/19/14 03:20	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 03:20	1
Heptane	0.057	J	0.50	0.047	ppb v/v			03/19/14 03:20	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 03:20	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/19/14 03:20	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Date Collected: 03/13/14 16:49

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 03:20	1
Isopropyl alcohol	0.64	J	2.0	0.094	ppb v/v			03/19/14 03:20	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 03:20	1
Methylene Chloride	0.23	J	0.50	0.13	ppb v/v			03/19/14 03:20	1
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v			03/19/14 03:20	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 03:20	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 03:20	1
Propene	0.60	en J	0.50	0.077	ppb v/v			03/19/14 03:20	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 03:20	1
Tetrachloroethene	0.55		0.20	0.040	ppb v/v			03/19/14 03:20	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 03:20	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 03:20	1
Toluene	0.29		0.20	0.12	ppb v/v			03/19/14 03:20	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 03:20	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 03:20	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 03:20	1
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v			03/19/14 03:20	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 03:20	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 03:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/19/14 03:20	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 03:20	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 03:20	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 03:20	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 03:20	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 03:20	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 03:20	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 03:20	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 03:20	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 03:20	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 03:20	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 03:20	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 03:20	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 03:20	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 03:20	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 03:20	1
2,2,4-Trimethylpentane	0.22	J	2.3	0.18	ug/m3			03/19/14 03:20	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 03:20	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/19/14 03:20	1
2-Hexanone	0.24	J	2.0	0.24	ug/m3			03/19/14 03:20	1
2-Methylbutane	0.80	J	1.5	0.091	ug/m3			03/19/14 03:20	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 03:20	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 03:20	1
4-Methyl-2-pentanone (MIBK)	0.60	J	2.0	0.18	ug/m3			03/19/14 03:20	1
Acetone	7.5	J	12	3.3	ug/m3			03/19/14 03:20	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-4

Lab Sample ID: 140-1063-6

Date Collected: 03/13/14 16:49

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.69		0.64	0.18	ug/m3			03/19/14 03:20	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 03:20	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 03:20	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 03:20	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 03:20	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 03:20	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/19/14 03:20	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 03:20	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 03:20	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 03:20	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/19/14 03:20	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 03:20	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 03:20	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 03:20	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 03:20	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 03:20	1
Ethanol	15		3.8	3.8	ug/m3			03/19/14 03:20	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 03:20	1
Heptane	0.23	J	2.0	0.19	ug/m3			03/19/14 03:20	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 03:20	1
Hexane	0.40	J	1.8	0.11	ug/m3			03/19/14 03:20	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 03:20	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 03:20	1
Isopropyl alcohol	1.6	J	4.9	0.23	ug/m3			03/19/14 03:20	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 03:20	1
Methylene Chloride	0.81	J	1.7	0.45	ug/m3			03/19/14 03:20	1
m-Xylene & p-Xylene	0.61	J	0.87	0.52	ug/m3			03/19/14 03:20	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 03:20	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 03:20	1
Propene	1.0	en-J	0.86	0.13	ug/m3			03/19/14 03:20	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 03:20	1
Tetrachloroethene	3.7		1.4	0.27	ug/m3			03/19/14 03:20	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 03:20	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 03:20	1
Toluene	1.1		0.75	0.45	ug/m3			03/19/14 03:20	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 03:20	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 03:20	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 03:20	1
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3			03/19/14 03:20	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		60 - 140					03/19/14 03:20	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 08:44	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.070	J	0.20	0.031	ppb v/v			03/19/14 08:44	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 08:44	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 08:44	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 08:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 08:44	1
1,2,4-Trimethylbenzene	0.19	J	0.20	0.063	ppb v/v			03/19/14 08:44	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 08:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 08:44	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 08:44	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 08:44	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 08:44	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 08:44	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 08:44	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 08:44	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 08:44	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 08:44	1
2,2,4-Trimethylpentane	0.51		0.50	0.039	ppb v/v			03/19/14 08:44	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v			03/19/14 08:44	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 08:44	1
2-Methylbutane	2.2		0.50	0.031	ppb v/v			03/19/14 08:44	1
2-Methylpentane	0.56		0.20	0.20	ppb v/v			03/19/14 08:44	1
4-Ethyltoluene	0.092	J	0.40	0.066	ppb v/v			03/19/14 08:44	1
4-Methyl-2-pentanone (MIBK)	0.32	J	0.50	0.045	ppb v/v			03/19/14 08:44	1
Acetone	3.0	J	5.0	1.4	ppb v/v			03/19/14 08:44	1
Benzene	0.90		0.20	0.056	ppb v/v			03/19/14 08:44	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 08:44	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 08:44	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 08:44	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 08:44	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 08:44	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/19/14 08:44	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 08:44	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 08:44	1
Chloroform	0.092	J	0.20	0.038	ppb v/v			03/19/14 08:44	1
Chloromethane	0.49	J	0.50	0.16	ppb v/v			03/19/14 08:44	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 08:44	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 08:44	1
Cyclohexane	0.17	J	0.50	0.040	ppb v/v			03/19/14 08:44	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 08:44	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/19/14 08:44	1
Ethanol	68		2.0	2.0	ppb v/v			03/19/14 08:44	1
Ethylbenzene	0.23		0.20	0.068	ppb v/v			03/19/14 08:44	1
Heptane	0.26	J	0.50	0.047	ppb v/v			03/19/14 08:44	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 08:44	1
Hexane	0.47	J	0.50	0.032	ppb v/v			03/19/14 08:44	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 08:44	1
Isopropyl alcohol	5.2		2.0	0.094	ppb v/v			03/19/14 08:44	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 08:44	1
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v			03/19/14 08:44	1
m-Xylene & p-Xylene	0.73		0.20	0.12	ppb v/v			03/19/14 08:44	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 08:44	1
o-Xylene	0.28		0.20	0.061	ppb v/v			03/19/14 08:44	1
Propene	2.3	ca J	0.50	0.077	ppb v/v			03/19/14 08:44	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 08:44	1
Tetrachloroethene	0.31		0.20	0.040	ppb v/v			03/19/14 08:44	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 08:44	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 08:44	1
Toluene	1.6		0.20	0.12	ppb v/v			03/19/14 08:44	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 08:44	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 08:44	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 08:44	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 08:44	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 08:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 08:44	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/19/14 08:44	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 08:44	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 08:44	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 08:44	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 08:44	1
1,2,4-Trimethylbenzene	0.92	J	0.98	0.31	ug/m3			03/19/14 08:44	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 08:44	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 08:44	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 08:44	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 08:44	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 08:44	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 08:44	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 08:44	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 08:44	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 08:44	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 08:44	1
2,2,4-Trimethylpentane	2.4		2.3	0.18	ug/m3			03/19/14 08:44	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 08:44	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/19/14 08:44	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 08:44	1
2-Methylbutane	6.4		1.5	0.091	ug/m3			03/19/14 08:44	1
2-Methylpentane	2.0		0.70	0.70	ug/m3			03/19/14 08:44	1
4-Ethyltoluene	0.45	J	2.0	0.32	ug/m3			03/19/14 08:44	1
4-Methyl-2-pentanone (MIBK)	1.3	J	2.0	0.18	ug/m3			03/19/14 08:44	1
Acetone	7.2	J	12	3.3	ug/m3			03/19/14 08:44	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E14

Lab Sample ID: 140-1063-13

Date Collected: 03/13/14 16:04

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.9		0.64	0.18	ug/m3			03/19/14 08:44	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 08:44	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 08:44	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 08:44	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 08:44	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 08:44	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/19/14 08:44	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 08:44	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 08:44	1
Chloroform	0.45	J	0.98	0.19	ug/m3			03/19/14 08:44	1
Chloromethane	1.0	J	1.0	0.33	ug/m3			03/19/14 08:44	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 08:44	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 08:44	1
Cyclohexane	0.60	J	1.7	0.14	ug/m3			03/19/14 08:44	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 08:44	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/19/14 08:44	1
Ethanol	130		3.8	3.8	ug/m3			03/19/14 08:44	1
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/19/14 08:44	1
Heptane	1.1	J	2.0	0.19	ug/m3			03/19/14 08:44	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 08:44	1
Hexane	1.6	J	1.8	0.11	ug/m3			03/19/14 08:44	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 08:44	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 08:44	1
Isopropyl alcohol	13		4.9	0.23	ug/m3			03/19/14 08:44	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 08:44	1
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/19/14 08:44	1
m-Xylene & p-Xylene	3.2		0.87	0.52	ug/m3			03/19/14 08:44	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 08:44	1
o-Xylene	1.2		0.87	0.26	ug/m3			03/19/14 08:44	1
Propene	3.9	on J	0.86	0.13	ug/m3			03/19/14 08:44	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 08:44	1
Tetrachloroethene	2.1		1.4	0.27	ug/m3			03/19/14 08:44	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 08:44	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 08:44	1
Toluene	5.9		0.75	0.45	ug/m3			03/19/14 08:44	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 08:44	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 08:44	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 08:44	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 08:44	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 08:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140					03/19/14 08:44	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 19:12	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.072	J	0.20	0.031	ppb v/v			03/18/14 19:12	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 19:12	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 19:12	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 19:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 19:12	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/18/14 19:12	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 19:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 19:12	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 19:12	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 19:12	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 19:12	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 19:12	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 19:12	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 19:12	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/18/14 19:12	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 19:12	1
2,2,4-Trimethylpentane	0.062	J	0.50	0.039	ppb v/v			03/18/14 19:12	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
2-Butanone (MEK)	0.24	J	1.0	0.20	ppb v/v			03/18/14 19:12	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/18/14 19:12	1
2-Methylbutane	0.37	J	0.50	0.031	ppb v/v			03/18/14 19:12	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/18/14 19:12	1
4-Methyl-2-pentanone (MIBK)	0.29	J	0.50	0.045	ppb v/v			03/18/14 19:12	1
Acetone	2.4	J	5.0	1.4	ppb v/v			03/18/14 19:12	1
Benzene	0.24		0.20	0.056	ppb v/v			03/18/14 19:12	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 19:12	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 19:12	1
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 19:12	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 19:12	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 19:12	1
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v			03/18/14 19:12	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 19:12	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 19:12	1
Chloroform	0.052	J	0.20	0.038	ppb v/v			03/18/14 19:12	1
Chloromethane	0.51		0.50	0.16	ppb v/v			03/18/14 19:12	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 19:12	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 19:12	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/18/14 19:12	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 19:12	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/18/14 19:12	1
Ethanol	53		2.0	2.0	ppb v/v			03/18/14 19:12	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/18/14 19:12	1
Heptane	0.078	J	0.50	0.047	ppb v/v			03/18/14 19:12	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 19:12	1
Hexane	0.17	J	0.50	0.032	ppb v/v			03/18/14 19:12	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
Indene	ND		0.40	0.40	ppb v/v			03/18/14 19:12	1
Isopropyl alcohol	1.2	J	2.0	0.094	ppb v/v			03/18/14 19:12	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 19:12	1
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v			03/18/14 19:12	1
m-Xylene & p-Xylene	0.17	J	0.20	0.12	ppb v/v			03/18/14 19:12	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 19:12	1
o-Xylene	0.070	J	0.20	0.061	ppb v/v			03/18/14 19:12	1
Propene	ND		0.50	0.077	ppb v/v			03/18/14 19:12	1
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 19:12	1
Tetrachloroethene	0.53		0.20	0.040	ppb v/v			03/18/14 19:12	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/18/14 19:12	1
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 19:12	1
Toluene	0.50		0.20	0.12	ppb v/v			03/18/14 19:12	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 19:12	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 19:12	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 19:12	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/18/14 19:12	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 19:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 19:12	1
1,1,1,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3			03/18/14 19:12	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 19:12	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 19:12	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 19:12	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 19:12	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/18/14 19:12	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 19:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 19:12	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 19:12	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 19:12	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 19:12	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 19:12	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 19:12	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 19:12	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/18/14 19:12	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 19:12	1
2,2,4-Trimethylpentane	0.29	J	2.3	0.18	ug/m3			03/18/14 19:12	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 19:12	1
2-Butanone (MEK)	0.70	J	2.9	0.59	ug/m3			03/18/14 19:12	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/18/14 19:12	1
2-Methylbutane	1.1	J	1.5	0.091	ug/m3			03/18/14 19:12	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 19:12	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/18/14 19:12	1
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3			03/18/14 19:12	1
Acetone	5.8	J	12	3.3	ug/m3			03/18/14 19:12	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E14

Lab Sample ID: 140-1063-14

Date Collected: 03/13/14 16:53

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.78		0.64	0.18	ug/m3			03/18/14 19:12	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 19:12	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 19:12	1
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 19:12	1
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 19:12	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 19:12	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/18/14 19:12	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 19:12	1
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 19:12	1
Chloroform	0.25	J	0.98	0.19	ug/m3			03/18/14 19:12	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/18/14 19:12	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 19:12	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 19:12	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/18/14 19:12	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 19:12	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 19:12	1
Ethanol	100		3.8	3.8	ug/m3			03/18/14 19:12	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/18/14 19:12	1
Heptane	0.32	J	2.0	0.19	ug/m3			03/18/14 19:12	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 19:12	1
Hexane	0.61	J	1.8	0.11	ug/m3			03/18/14 19:12	1
Indane	ND		0.97	0.97	ug/m3			03/18/14 19:12	1
Indene	ND		1.9	1.9	ug/m3			03/18/14 19:12	1
Isopropyl alcohol	3.0	J	4.9	0.23	ug/m3			03/18/14 19:12	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 19:12	1
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/18/14 19:12	1
m-Xylene & p-Xylene	0.75	J	0.87	0.52	ug/m3			03/18/14 19:12	1
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 19:12	1
o-Xylene	0.30	J	0.87	0.26	ug/m3			03/18/14 19:12	1
Propene	ND		0.86	0.13	ug/m3			03/18/14 19:12	1
Styrene	ND		0.85	0.25	ug/m3			03/18/14 19:12	1
Tetrachloroethene	3.6		1.4	0.27	ug/m3			03/18/14 19:12	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/18/14 19:12	1
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 19:12	1
Toluene	1.9		0.75	0.45	ug/m3			03/18/14 19:12	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 19:12	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 19:12	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 19:12	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/18/14 19:12	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/18/14 19:12	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/18/14 20:05	1.84
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/18/14 20:05	1.84
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/18/14 20:05	1.84
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/18/14 20:05	1.84
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/18/14 20:05	1.84
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/18/14 20:05	1.84
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/18/14 20:05	1.84
1,2,4-Trimethylbenzene	0.14	J	0.20	0.063	ppb v/v			03/18/14 20:05	1.84
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/18/14 20:05	1.84
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/18/14 20:05	1.84
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/18/14 20:05	1.84
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/18/14 20:05	1.84
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/18/14 20:05	1.84
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/18/14 20:05	1.84
1,4-Dichlorobenzene	0.22		0.20	0.064	ppb v/v			03/18/14 20:05	1.84
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/18/14 20:05	1.84
2,2,4-Trimethylpentane	0.073	J	0.50	0.039	ppb v/v			03/18/14 20:05	1.84
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
2-Butanone (MEK)	2.8		1.0	0.20	ppb v/v			03/18/14 20:05	1.84
2-Hexanone	0.19	J	0.50	0.058	ppb v/v			03/18/14 20:05	1.84
2-Methylbutane	0.33	J	0.50	0.031	ppb v/v			03/18/14 20:05	1.84
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
4-Ethyltoluene	0.082	J	0.40	0.066	ppb v/v			03/18/14 20:05	1.84
4-Methyl-2-pentanone (MIBK)	1.1		0.50	0.045	ppb v/v			03/18/14 20:05	1.84
Acetone	16	J	5.0	1.4	ppb v/v			03/18/14 20:05	1.84
Benzene	0.25		0.20	0.056	ppb v/v			03/18/14 20:05	1.84
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/18/14 20:05	1.84
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/18/14 20:05	1.84
Bromoform	ND		0.20	0.048	ppb v/v			03/18/14 20:05	1.84
Bromomethane	ND		0.20	0.032	ppb v/v			03/18/14 20:05	1.84
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/18/14 20:05	1.84
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v			03/18/14 20:05	1.84
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/18/14 20:05	1.84
Chloroethane	ND		0.20	0.035	ppb v/v			03/18/14 20:05	1.84
Chloroform	0.12	J	0.20	0.038	ppb v/v			03/18/14 20:05	1.84
Chloromethane	0.62		0.50	0.16	ppb v/v			03/18/14 20:05	1.84
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/18/14 20:05	1.84
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/18/14 20:05	1.84
Cyclohexane	0.049	J	0.50	0.040	ppb v/v			03/18/14 20:05	1.84
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/18/14 20:05	1.84
Dichlorodifluoromethane	0.47		0.20	0.068	ppb v/v			03/18/14 20:05	1.84
Ethanol	180		2.0	2.0	ppb v/v			03/18/14 20:05	1.84
Ethylbenzene	0.23		0.20	0.068	ppb v/v			03/18/14 20:05	1.84
Heptane	0.27	J	0.50	0.047	ppb v/v			03/18/14 20:05	1.84
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/18/14 20:05	1.84
Hexane	0.18	J	0.50	0.032	ppb v/v			03/18/14 20:05	1.84

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Indane	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
Indene	ND		0.40	0.40	ppb v/v			03/18/14 20:05	1.84
Isopropyl alcohol	3.0		2.0	0.094	ppb v/v			03/18/14 20:05	1.84
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/18/14 20:05	1.84
Methylene Chloride	0.32	J	0.50	0.13	ppb v/v			03/18/14 20:05	1.84
m-Xylene & p-Xylene	0.82		0.20	0.12	ppb v/v			03/18/14 20:05	1.84
Naphthalene	ND		0.50	0.090	ppb v/v			03/18/14 20:05	1.84
o-Xylene	0.32		0.20	0.061	ppb v/v			03/18/14 20:05	1.84
Propene	3.1	on J	0.50	0.077	ppb v/v			03/18/14 20:05	1.84
Styrene	ND		0.20	0.058	ppb v/v			03/18/14 20:05	1.84
Tetrachloroethene	0.35		0.20	0.040	ppb v/v			03/18/14 20:05	1.84
Tetrahydrofuran	0.074	J	1.0	0.063	ppb v/v			03/18/14 20:05	1.84
Thiophene	ND		0.20	0.20	ppb v/v			03/18/14 20:05	1.84
Toluene	1.0		0.20	0.12	ppb v/v			03/18/14 20:05	1.84
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/18/14 20:05	1.84
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/18/14 20:05	1.84
Trichloroethene	ND		0.20	0.036	ppb v/v			03/18/14 20:05	1.84
Trichlorofluoromethane	0.19	J	0.20	0.024	ppb v/v			03/18/14 20:05	1.84
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/18/14 20:05	1.84

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/18/14 20:05	1.84
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/18/14 20:05	1.84
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/18/14 20:05	1.84
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/18/14 20:05	1.84
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/18/14 20:05	1.84
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/18/14 20:05	1.84
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/18/14 20:05	1.84
1,2,4-Trimethylbenzene	0.70	J	0.98	0.31	ug/m3			03/18/14 20:05	1.84
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/18/14 20:05	1.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/18/14 20:05	1.84
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/18/14 20:05	1.84
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/18/14 20:05	1.84
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/18/14 20:05	1.84
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/18/14 20:05	1.84
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/18/14 20:05	1.84
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/18/14 20:05	1.84
1,4-Dichlorobenzene	1.3		1.2	0.38	ug/m3			03/18/14 20:05	1.84
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/18/14 20:05	1.84
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3			03/18/14 20:05	1.84
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/18/14 20:05	1.84
2-Butanone (MEK)	8.1		2.9	0.59	ug/m3			03/18/14 20:05	1.84
2-Hexanone	0.79	J	2.0	0.24	ug/m3			03/18/14 20:05	1.84
2-Methylbutane	0.96	J	1.5	0.091	ug/m3			03/18/14 20:05	1.84
2-Methylpentane	ND		0.70	0.70	ug/m3			03/18/14 20:05	1.84
4-Ethyltoluene	0.40	J	2.0	0.32	ug/m3			03/18/14 20:05	1.84
4-Methyl-2-pentanone (MIBK)	4.3		2.0	0.18	ug/m3			03/18/14 20:05	1.84
Acetone	38	J	12	3.3	ug/m3			03/18/14 20:05	1.84

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA3-E14

Lab Sample ID: 140-1063-15

Date Collected: 03/13/14 16:52

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.79		0.64	0.18	ug/m3			03/18/14 20:05	1.84
Benzyl chloride	ND		2.1	0.40	ug/m3			03/18/14 20:05	1.84
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/18/14 20:05	1.84
Bromoform	ND		2.1	0.50	ug/m3			03/18/14 20:05	1.84
Bromomethane	ND		0.78	0.12	ug/m3			03/18/14 20:05	1.84
Carbon disulfide	ND		1.6	0.097	ug/m3			03/18/14 20:05	1.84
Carbon tetrachloride	0.46	J	1.3	0.24	ug/m3			03/18/14 20:05	1.84
Chlorobenzene	ND		0.92	0.23	ug/m3			03/18/14 20:05	1.84
Chloroethane	ND		0.53	0.092	ug/m3			03/18/14 20:05	1.84
Chloroform	0.57	J	0.98	0.19	ug/m3			03/18/14 20:05	1.84
Chloromethane	1.3		1.0	0.33	ug/m3			03/18/14 20:05	1.84
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/18/14 20:05	1.84
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/18/14 20:05	1.84
Cyclohexane	0.17	J	1.7	0.14	ug/m3			03/18/14 20:05	1.84
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/18/14 20:05	1.84
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/18/14 20:05	1.84
Ethanol	340		3.8	3.8	ug/m3			03/18/14 20:05	1.84
Ethylbenzene	1.0		0.87	0.30	ug/m3			03/18/14 20:05	1.84
Heptane	1.1	J	2.0	0.19	ug/m3			03/18/14 20:05	1.84
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/18/14 20:05	1.84
Hexane	0.62	J	1.8	0.11	ug/m3			03/18/14 20:05	1.84
Indane	ND		0.97	0.97	ug/m3			03/18/14 20:05	1.84
Indene	ND		1.9	1.9	ug/m3			03/18/14 20:05	1.84
Isopropyl alcohol	7.3		4.9	0.23	ug/m3			03/18/14 20:05	1.84
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/18/14 20:05	1.84
Methylene Chloride	1.1	J	1.7	0.45	ug/m3			03/18/14 20:05	1.84
m-Xylene & p-Xylene	3.6		0.87	0.52	ug/m3			03/18/14 20:05	1.84
Naphthalene	ND		2.6	0.47	ug/m3			03/18/14 20:05	1.84
o-Xylene	1.4		0.87	0.26	ug/m3			03/18/14 20:05	1.84
Propene	5.3	en J	0.86	0.13	ug/m3			03/18/14 20:05	1.84
Styrene	ND		0.85	0.25	ug/m3			03/18/14 20:05	1.84
Tetrachloroethene	2.4		1.4	0.27	ug/m3			03/18/14 20:05	1.84
Tetrahydrofuran	0.22	J	2.9	0.19	ug/m3			03/18/14 20:05	1.84
Thiophene	ND		0.69	0.69	ug/m3			03/18/14 20:05	1.84
Toluene	3.8		0.75	0.45	ug/m3			03/18/14 20:05	1.84
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/18/14 20:05	1.84
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/18/14 20:05	1.84
Trichloroethene	ND		1.1	0.19	ug/m3			03/18/14 20:05	1.84
Trichlorofluoromethane	1.1	J	1.1	0.13	ug/m3			03/18/14 20:05	1.84
Vinyl chloride	ND		0.51	0.18	ug/m3			03/18/14 20:05	1.84

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		03/18/14 20:05	1.84

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: PCV-IAPC-B5

Lab Sample ID: 140-1063-18

Date Collected: 03/12/14 15:59

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		1.9	1.9	ug/m3			03/21/14 15:32	1
Isopropyl alcohol	21		4.9	0.23	ug/m3			03/21/14 15:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 15:32	1
Methylene Chloride	160	E	1.7	0.45	ug/m3			03/21/14 15:32	1
m-Xylene & p-Xylene	22		0.87	0.52	ug/m3			03/21/14 15:32	1
Naphthalene	0.54	J	2.6	0.47	ug/m3			03/21/14 15:32	1
o-Xylene	6.9		0.87	0.26	ug/m3			03/21/14 15:32	1
Propene	1.9	on J	0.86	0.13	ug/m3			03/21/14 15:32	1
Styrene	40		0.85	0.25	ug/m3			03/21/14 15:32	1
Tetrachloroethene	1.0	J	1.4	0.27	ug/m3			03/21/14 15:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 15:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 15:32	1
Toluene	65		0.75	0.45	ug/m3			03/21/14 15:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 15:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 15:32	1
Trichloroethene	1.2		1.1	0.19	ug/m3			03/21/14 15:32	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/21/14 15:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140		03/21/14 15:32	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	760		20	20	ppb v/v			03/24/14 14:38	1
Methylene Chloride	33		5.0	1.3	ppb v/v			03/24/14 14:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1400		38	38	ug/m3			03/24/14 14:38	1
Methylene Chloride	120		17	4.5	ug/m3			03/24/14 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		60 - 140		03/24/14 14:38	1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/19/14 19:31	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 19:31	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 19:31	1
1,2,4-Trimethylbenzene	0.16	J	0.20	0.063	ppb v/v			03/19/14 19:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 19:31	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 19:31	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 19:31	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 19:31	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 19:31	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 19:31	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 19:31	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 19:31	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 19:31	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
2-Butanone (MEK)	0.46	J	1.0	0.20	ppb v/v			03/19/14 19:31	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 19:31	1
2-Methylbutane	0.28	J	0.50	0.031	ppb v/v			03/19/14 19:31	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		0.50	0.045	ppb v/v			03/19/14 19:31	1
Acetone	2.3	J	5.0	1.4	ppb v/v			03/19/14 19:31	1
Benzene	0.20		0.20	0.056	ppb v/v			03/19/14 19:31	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 19:31	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 19:31	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 19:31	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 19:31	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 19:31	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/19/14 19:31	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 19:31	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 19:31	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 19:31	1
Chloromethane	0.47	J	0.50	0.16	ppb v/v			03/19/14 19:31	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 19:31	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 19:31	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 19:31	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 19:31	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/19/14 19:31	1
Ethanol	7.4		2.0	2.0	ppb v/v			03/19/14 19:31	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 19:31	1
Heptane	0.048	J	0.50	0.047	ppb v/v			03/19/14 19:31	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 19:31	1
Hexane	0.095	J	0.50	0.032	ppb v/v			03/19/14 19:31	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 19:31	1
Isopropyl alcohol	0.71	J	2.0	0.094	ppb v/v			03/19/14 19:31	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 19:31	1
Methylene Chloride	0.28	J	0.50	0.13	ppb v/v			03/19/14 19:31	1
m-Xylene & p-Xylene	0.22		0.20	0.12	ppb v/v			03/19/14 19:31	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 19:31	1
o-Xylene	0.088	J	0.20	0.061	ppb v/v			03/19/14 19:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propene	0.41	J	0.50	0.077	ppb v/v			03/19/14 19:31	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 19:31	1
Tetrachloroethene	0.093	J	0.20	0.040	ppb v/v			03/19/14 19:31	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 19:31	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 19:31	1
Toluene	0.36		0.20	0.12	ppb v/v			03/19/14 19:31	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 19:31	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 19:31	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 19:31	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 19:31	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 19:31	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 19:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/19/14 19:31	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 19:31	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 19:31	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 19:31	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 19:31	1
1,2,4-Trimethylbenzene	0.76	J	0.98	0.31	ug/m3			03/19/14 19:31	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 19:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 19:31	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 19:31	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 19:31	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 19:31	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 19:31	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 19:31	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 19:31	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 19:31	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 19:31	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 19:31	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 19:31	1
2-Butanone (MEK)	1.4	J	2.9	0.59	ug/m3			03/19/14 19:31	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 19:31	1
2-Methylbutane	0.83	J	1.5	0.091	ug/m3			03/19/14 19:31	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 19:31	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.18	ug/m3			03/19/14 19:31	1
Acetone	5.5	J	12	3.3	ug/m3			03/19/14 19:31	1
Benzene	0.64		0.64	0.18	ug/m3			03/19/14 19:31	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 19:31	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 19:31	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 19:31	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 19:31	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 19:31	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/19/14 19:31	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 19:31	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-1

Lab Sample ID: 140-1063-19

Date Collected: 03/13/14 16:25

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 19:31	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 19:31	1
Chloromethane	0.97	J	1.0	0.33	ug/m3			03/19/14 19:31	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 19:31	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 19:31	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 19:31	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 19:31	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 19:31	1
Ethanol	14		3.8	3.8	ug/m3			03/19/14 19:31	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 19:31	1
Heptane	0.20	J	2.0	0.19	ug/m3			03/19/14 19:31	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 19:31	1
Hexane	0.34	J	1.8	0.11	ug/m3			03/19/14 19:31	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 19:31	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 19:31	1
Isopropyl alcohol	1.7	J	4.9	0.23	ug/m3			03/19/14 19:31	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 19:31	1
Methylene Chloride	0.98	J	1.7	0.45	ug/m3			03/19/14 19:31	1
m-Xylene & p-Xylene	0.97		0.87	0.52	ug/m3			03/19/14 19:31	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 19:31	1
o-Xylene	0.38	J	0.87	0.26	ug/m3			03/19/14 19:31	1
Propene	0.70	J en	0.86	0.13	ug/m3			03/19/14 19:31	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 19:31	1
Tetrachloroethene	0.63	J	1.4	0.27	ug/m3			03/19/14 19:31	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 19:31	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 19:31	1
Toluene	1.3		0.75	0.45	ug/m3			03/19/14 19:31	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 19:31	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 19:31	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 19:31	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 19:31	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		60 - 140					03/19/14 19:31	1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 20:25	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 20:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/19/14 20:25	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 20:25	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 20:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 20:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 20:25	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 20:25	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 20:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 20:25	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 20:25	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 20:25	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 20:25	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 20:25	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 20:25	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 20:25	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 20:25	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 20:25	1
2,2,4-Trimethylpentane	0.042	J	0.50	0.039	ppb v/v			03/19/14 20:25	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
2-Butanone (MEK)	0.22	J	1.0	0.20	ppb v/v			03/19/14 20:25	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 20:25	1
2-Methylbutane	0.32	J	0.50	0.031	ppb v/v			03/19/14 20:25	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 20:25	1
4-Methyl-2-pentanone (MIBK)	0.10	J	0.50	0.045	ppb v/v			03/19/14 20:25	1
Acetone	1.7	J	5.0	1.4	ppb v/v			03/19/14 20:25	1
Benzene	0.23		0.20	0.056	ppb v/v			03/19/14 20:25	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 20:25	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 20:25	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 20:25	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 20:25	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 20:25	1
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v			03/19/14 20:25	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 20:25	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 20:25	1
Chloroform	ND		0.20	0.038	ppb v/v			03/19/14 20:25	1
Chloromethane	0.54		0.50	0.16	ppb v/v			03/19/14 20:25	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 20:25	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 20:25	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 20:25	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 20:25	1
Dichlorodifluoromethane	0.46		0.20	0.068	ppb v/v			03/19/14 20:25	1
Ethanol	12		2.0	2.0	ppb v/v			03/19/14 20:25	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 20:25	1
Heptane	0.053	J	0.50	0.047	ppb v/v			03/19/14 20:25	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 20:25	1
Hexane	0.11	J	0.50	0.032	ppb v/v			03/19/14 20:25	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 20:25	1
Isopropyl alcohol	0.83	J	2.0	0.094	ppb v/v			03/19/14 20:25	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 20:25	1
Methylene Chloride	0.29	J	0.50	0.13	ppb v/v			03/19/14 20:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.14	J	0.20	0.12	ppb v/v			03/19/14 20:25	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 20:25	1
o-Xylene	ND		0.20	0.061	ppb v/v			03/19/14 20:25	1
Propene	0.43	Jen	0.50	0.077	ppb v/v			03/19/14 20:25	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 20:25	1
Tetrachloroethene	ND		0.20	0.040	ppb v/v			03/19/14 20:25	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 20:25	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 20:25	1
Toluene	0.37		0.20	0.12	ppb v/v			03/19/14 20:25	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 20:25	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 20:25	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 20:25	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/19/14 20:25	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 20:25	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 20:25	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 20:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/19/14 20:25	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 20:25	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 20:25	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 20:25	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 20:25	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 20:25	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 20:25	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 20:25	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 20:25	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 20:25	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 20:25	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 20:25	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 20:25	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 20:25	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 20:25	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 20:25	1
2,2,4-Trimethylpentane	0.19	J	2.3	0.18	ug/m3			03/19/14 20:25	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 20:25	1
2-Butanone (MEK)	0.65	J	2.9	0.59	ug/m3			03/19/14 20:25	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 20:25	1
2-Methylbutane	0.96	J	1.5	0.091	ug/m3			03/19/14 20:25	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 20:25	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 20:25	1
4-Methyl-2-pentanone (MIBK)	0.42	J	2.0	0.18	ug/m3			03/19/14 20:25	1
Acetone	4.1	J	12	3.3	ug/m3			03/19/14 20:25	1
Benzene	0.74		0.64	0.18	ug/m3			03/19/14 20:25	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 20:25	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 20:25	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 20:25	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 20:25	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: AMB-3

Lab Sample ID: 140-1063-20

Date Collected: 03/13/14 17:06

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 20:25	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 20:25	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 20:25	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 20:25	1
Chloroform	ND		0.98	0.19	ug/m3			03/19/14 20:25	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 20:25	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 20:25	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 20:25	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 20:25	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 20:25	1
Dichlorodifluoromethane	2.3		0.99	0.34	ug/m3			03/19/14 20:25	1
Ethanol	23		3.8	3.8	ug/m3			03/19/14 20:25	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 20:25	1
Heptane	0.22	J	2.0	0.19	ug/m3			03/19/14 20:25	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 20:25	1
Hexane	0.39	J	1.8	0.11	ug/m3			03/19/14 20:25	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 20:25	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 20:25	1
Isopropyl alcohol	2.1	J	4.9	0.23	ug/m3			03/19/14 20:25	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 20:25	1
Methylene Chloride	1.0	J	1.7	0.45	ug/m3			03/19/14 20:25	1
m-Xylene & p-Xylene	0.62	J	0.87	0.52	ug/m3			03/19/14 20:25	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 20:25	1
o-Xylene	ND		0.87	0.26	ug/m3			03/19/14 20:25	1
Propene	0.74	J ca	0.86	0.13	ug/m3			03/19/14 20:25	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 20:25	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			03/19/14 20:25	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 20:25	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 20:25	1
Toluene	1.4		0.75	0.45	ug/m3			03/19/14 20:25	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 20:25	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 20:25	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 20:25	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 20:25	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		60 - 140					03/19/14 20:25	1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 21:18	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 21:18	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067	J	0.20	0.031	ppb v/v			03/19/14 21:18	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 21:18	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 21:18	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 21:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 21:18	1
1,2,4-Trimethylbenzene	0.088	J	0.20	0.063	ppb v/v			03/19/14 21:18	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 21:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 21:18	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 21:18	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 21:18	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 21:18	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 21:18	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 21:18	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 21:18	1
1,4-Dichlorobenzene	0.25		0.20	0.064	ppb v/v			03/19/14 21:18	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 21:18	1
2,2,4-Trimethylpentane	0.083	J	0.50	0.039	ppb v/v			03/19/14 21:18	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
2-Butanone (MEK)	0.44	J	1.0	0.20	ppb v/v			03/19/14 21:18	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 21:18	1
2-Methylbutane	0.74		0.50	0.031	ppb v/v			03/19/14 21:18	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 21:18	1
4-Methyl-2-pentanone (MIBK)	0.27	J	0.50	0.045	ppb v/v			03/19/14 21:18	1
Acetone	4.0	J	5.0	1.4	ppb v/v			03/19/14 21:18	1
Benzene	0.28		0.20	0.056	ppb v/v			03/19/14 21:18	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 21:18	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 21:18	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 21:18	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 21:18	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 21:18	1
Carbon tetrachloride	0.072	J	0.20	0.038	ppb v/v			03/19/14 21:18	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 21:18	1
Chloroethane	0.11	J	0.20	0.035	ppb v/v			03/19/14 21:18	1
Chloroform	0.55		0.20	0.038	ppb v/v			03/19/14 21:18	1
Chloromethane	0.54		0.50	0.16	ppb v/v			03/19/14 21:18	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 21:18	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 21:18	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 21:18	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 21:18	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 21:18	1
Ethanol	50		2.0	2.0	ppb v/v			03/19/14 21:18	1
Ethylbenzene	0.092	J	0.20	0.068	ppb v/v			03/19/14 21:18	1
Heptane	0.098	J	0.50	0.047	ppb v/v			03/19/14 21:18	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 21:18	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/19/14 21:18	1
Indane	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 21:18	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	2.1		2.0	0.094	ppb v/v			03/19/14 21:18	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 21:18	1
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v			03/19/14 21:18	1
m-Xylene & p-Xylene	0.28		0.20	0.12	ppb v/v			03/19/14 21:18	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 21:18	1
o-Xylene	0.11	J	0.20	0.061	ppb v/v			03/19/14 21:18	1
Propene	1.0	J	0.50	0.077	ppb v/v			03/19/14 21:18	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 21:18	1
Tetrachloroethene	0.075	J	0.20	0.040	ppb v/v			03/19/14 21:18	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 21:18	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 21:18	1
Toluene	0.57		0.20	0.12	ppb v/v			03/19/14 21:18	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 21:18	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 21:18	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 21:18	1
Trichlorofluoromethane	0.22		0.20	0.024	ppb v/v			03/19/14 21:18	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 21:18	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 21:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 21:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/19/14 21:18	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 21:18	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 21:18	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 21:18	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 21:18	1
1,2,4-Trimethylbenzene	0.43	J	0.98	0.31	ug/m3			03/19/14 21:18	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 21:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 21:18	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 21:18	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 21:18	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 21:18	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 21:18	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 21:18	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 21:18	1
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3			03/19/14 21:18	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 21:18	1
2,2,4-Trimethylpentane	0.39	J	2.3	0.18	ug/m3			03/19/14 21:18	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 21:18	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/19/14 21:18	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 21:18	1
2-Methylbutane	2.2		1.5	0.091	ug/m3			03/19/14 21:18	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 21:18	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 21:18	1
4-Methyl-2-pentanone (MIBK)	1.1	J	2.0	0.18	ug/m3			03/19/14 21:18	1
Acetone	9.4	J	12	3.3	ug/m3			03/19/14 21:18	1
Benzene	0.89		0.64	0.18	ug/m3			03/19/14 21:18	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 21:18	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E19

Lab Sample ID: 140-1063-21

Date Collected: 03/13/14 16:18

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 21:18	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 21:18	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 21:18	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 21:18	1
Carbon tetrachloride	0.45	J	1.3	0.24	ug/m3			03/19/14 21:18	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 21:18	1
Chloroethane	0.30	J	0.53	0.092	ug/m3			03/19/14 21:18	1
Chloroform	2.7		0.98	0.19	ug/m3			03/19/14 21:18	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/19/14 21:18	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 21:18	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 21:18	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 21:18	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 21:18	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 21:18	1
Ethanol	95		3.8	3.8	ug/m3			03/19/14 21:18	1
Ethylbenzene	0.40	J	0.87	0.30	ug/m3			03/19/14 21:18	1
Heptane	0.40	J	2.0	0.19	ug/m3			03/19/14 21:18	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 21:18	1
Hexane	0.49	J	1.8	0.11	ug/m3			03/19/14 21:18	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 21:18	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 21:18	1
Isopropyl alcohol	5.1		4.9	0.23	ug/m3			03/19/14 21:18	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 21:18	1
Methylene Chloride	0.95	J	1.7	0.45	ug/m3			03/19/14 21:18	1
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3			03/19/14 21:18	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 21:18	1
o-Xylene	0.49	J	0.87	0.26	ug/m3			03/19/14 21:18	1
Propene	1.7	J	0.86	0.13	ug/m3			03/19/14 21:18	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 21:18	1
Tetrachloroethene	0.51	J	1.4	0.27	ug/m3			03/19/14 21:18	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 21:18	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 21:18	1
Toluene	2.2		0.75	0.45	ug/m3			03/19/14 21:18	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 21:18	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 21:18	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 21:18	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/19/14 21:18	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/19/14 21:18	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Date Collected: 03/13/14 17:05

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.051	J	0.20	0.030	ppb v/v			03/19/14 22:12	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	J	0.20	0.031	ppb v/v			03/19/14 22:12	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 22:12	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 22:12	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 22:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 22:12	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 22:12	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 22:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 22:12	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 22:12	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 22:12	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 22:12	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 22:12	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/19/14 22:12	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 22:12	1
1,4-Dichlorobenzene	0.26		0.20	0.064	ppb v/v			03/19/14 22:12	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 22:12	1
2,2,4-Trimethylpentane	0.056	J	0.50	0.039	ppb v/v			03/19/14 22:12	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
2-Butanone (MEK)	0.30	J	1.0	0.20	ppb v/v			03/19/14 22:12	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 22:12	1
2-Methylbutane	0.47	J	0.50	0.031	ppb v/v			03/19/14 22:12	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 22:12	1
4-Methyl-2-pentanone (MIBK)	0.14	J	0.50	0.045	ppb v/v			03/19/14 22:12	1
Acetone	2.9	J	5.0	1.4	ppb v/v			03/19/14 22:12	1
Benzene	0.24		0.20	0.056	ppb v/v			03/19/14 22:12	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 22:12	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 22:12	1
Bromofom	ND		0.20	0.048	ppb v/v			03/19/14 22:12	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 22:12	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 22:12	1
Carbon tetrachloride	0.058	J	0.20	0.038	ppb v/v			03/19/14 22:12	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 22:12	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 22:12	1
Chloroform	0.14	J	0.20	0.038	ppb v/v			03/19/14 22:12	1
Chloromethane	0.56		0.50	0.16	ppb v/v			03/19/14 22:12	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 22:12	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 22:12	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 22:12	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 22:12	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/19/14 22:12	1
Ethanol	160		2.0	2.0	ppb v/v			03/19/14 22:12	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 22:12	1
Heptane	0.084	J	0.50	0.047	ppb v/v			03/19/14 22:12	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 22:12	1
Hexane	0.12	J	0.50	0.032	ppb v/v			03/19/14 22:12	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Date Collected: 03/13/14 17:05

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 22:12	1
Isopropyl alcohol	6.2		2.0	0.094	ppb v/v			03/19/14 22:12	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 22:12	1
Methylene Chloride	0.51		0.50	0.13	ppb v/v			03/19/14 22:12	1
m-Xylene & p-Xylene	0.20		0.20	0.12	ppb v/v			03/19/14 22:12	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 22:12	1
o-Xylene	0.075	J	0.20	0.061	ppb v/v			03/19/14 22:12	1
Propene	0.93	J	0.50	0.077	ppb v/v			03/19/14 22:12	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 22:12	1
Tetrachloroethene	0.067	J	0.20	0.040	ppb v/v			03/19/14 22:12	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 22:12	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 22:12	1
Toluene	0.58		0.20	0.12	ppb v/v			03/19/14 22:12	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 22:12	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 22:12	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 22:12	1
Trichlorofluoromethane	0.25		0.20	0.024	ppb v/v			03/19/14 22:12	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 22:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.28	J	1.1	0.16	ug/m3			03/19/14 22:12	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	J	1.5	0.24	ug/m3			03/19/14 22:12	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 22:12	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 22:12	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 22:12	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 22:12	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 22:12	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 22:12	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 22:12	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 22:12	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 22:12	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 22:12	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 22:12	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/19/14 22:12	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 22:12	1
1,4-Dichlorobenzene	1.5		1.2	0.38	ug/m3			03/19/14 22:12	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 22:12	1
2,2,4-Trimethylpentane	0.26	J	2.3	0.18	ug/m3			03/19/14 22:12	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 22:12	1
2-Butanone (MEK)	0.88	J	2.9	0.59	ug/m3			03/19/14 22:12	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 22:12	1
2-Methylbutane	1.4	J	1.5	0.091	ug/m3			03/19/14 22:12	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 22:12	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 22:12	1
4-Methyl-2-pentanone (MIBK)	0.57	J	2.0	0.18	ug/m3			03/19/14 22:12	1
Acetone	6.9	J	12	3.3	ug/m3			03/19/14 22:12	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E19

Lab Sample ID: 140-1063-22

Date Collected: 03/13/14 17:05

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.76		0.64	0.18	ug/m3			03/19/14 22:12	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 22:12	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 22:12	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 22:12	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 22:12	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 22:12	1
Carbon tetrachloride	0.37	J	1.3	0.24	ug/m3			03/19/14 22:12	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 22:12	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 22:12	1
Chloroform	0.68	J	0.98	0.19	ug/m3			03/19/14 22:12	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 22:12	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 22:12	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 22:12	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 22:12	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 22:12	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/19/14 22:12	1
Ethanol	300		3.8	3.8	ug/m3			03/19/14 22:12	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 22:12	1
Heptane	0.34	J	2.0	0.19	ug/m3			03/19/14 22:12	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 22:12	1
Hexane	0.42	J	1.8	0.11	ug/m3			03/19/14 22:12	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 22:12	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 22:12	1
Isopropyl alcohol	15		4.9	0.23	ug/m3			03/19/14 22:12	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 22:12	1
Methylene Chloride	1.8		1.7	0.45	ug/m3			03/19/14 22:12	1
m-Xylene & p-Xylene	0.85		0.87	0.52	ug/m3			03/19/14 22:12	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 22:12	1
o-Xylene	0.33	J	0.87	0.26	ug/m3			03/19/14 22:12	1
Propene	1.6	J	0.86	0.13	ug/m3			03/19/14 22:12	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 22:12	1
Tetrachloroethene	0.46	J	1.4	0.27	ug/m3			03/19/14 22:12	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 22:12	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 22:12	1
Toluene	2.2		0.75	0.45	ug/m3			03/19/14 22:12	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 22:12	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 22:12	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 22:12	1
Trichlorofluoromethane	1.4		1.1	0.13	ug/m3			03/19/14 22:12	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/19/14 22:12	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Date Collected: 03/13/14 15:17

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/19/14 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/19/14 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	J	0.20	0.031	ppb v/v			03/19/14 23:06	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/19/14 23:06	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/19/14 23:06	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/19/14 23:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/19/14 23:06	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/19/14 23:06	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/19/14 23:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/19/14 23:06	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/19/14 23:06	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/19/14 23:06	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/19/14 23:06	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/19/14 23:06	1
1,3-Butadiene	0.14	J	0.40	0.064	ppb v/v			03/19/14 23:06	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/19/14 23:06	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/19/14 23:06	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/19/14 23:06	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/19/14 23:06	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v			03/19/14 23:06	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/19/14 23:06	1
2-Methylbutane	0.64		0.50	0.031	ppb v/v			03/19/14 23:06	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/19/14 23:06	1
4-Methyl-2-pentanone (MIBK)	0.97	J	0.50	0.045	ppb v/v			03/19/14 23:06	1
Acetone	2.3	J	5.0	1.4	ppb v/v			03/19/14 23:06	1
Benzene	0.24		0.20	0.056	ppb v/v			03/19/14 23:06	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/19/14 23:06	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/19/14 23:06	1
Bromoform	ND		0.20	0.048	ppb v/v			03/19/14 23:06	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/19/14 23:06	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/19/14 23:06	1
Carbon tetrachloride	0.067	J	0.20	0.038	ppb v/v			03/19/14 23:06	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/19/14 23:06	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/19/14 23:06	1
Chloroform	0.050	J	0.20	0.038	ppb v/v			03/19/14 23:06	1
Chloromethane	0.60		0.50	0.16	ppb v/v			03/19/14 23:06	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/19/14 23:06	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/19/14 23:06	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/19/14 23:06	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/19/14 23:06	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/19/14 23:06	1
Ethanol	19		2.0	2.0	ppb v/v			03/19/14 23:06	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/19/14 23:06	1
Heptane	0.058	J	0.50	0.047	ppb v/v			03/19/14 23:06	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/19/14 23:06	1
Hexane	0.12	J	0.50	0.032	ppb v/v			03/19/14 23:06	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Date Collected: 03/13/14 15:17

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
Indene	ND		0.40	0.40	ppb v/v			03/19/14 23:06	1
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v			03/19/14 23:06	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/19/14 23:06	1
Methylene Chloride	0.23	J	0.50	0.13	ppb v/v			03/19/14 23:06	1
m-Xylene & p-Xylene	0.16	J	0.20	0.12	ppb v/v			03/19/14 23:06	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/19/14 23:06	1
o-Xylene	0.063	J	0.20	0.061	ppb v/v			03/19/14 23:06	1
Propene	2.6	en J	0.50	0.077	ppb v/v			03/19/14 23:06	1
Styrene	ND		0.20	0.058	ppb v/v			03/19/14 23:06	1
Tetrachloroethene	0.050	J	0.20	0.040	ppb v/v			03/19/14 23:06	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/19/14 23:06	1
Thiophene	ND		0.20	0.20	ppb v/v			03/19/14 23:06	1
Toluene	0.82		0.20	0.12	ppb v/v			03/19/14 23:06	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/19/14 23:06	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/19/14 23:06	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/19/14 23:06	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/19/14 23:06	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/19/14 23:06	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/19/14 23:06	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/19/14 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	J	1.5	0.24	ug/m3			03/19/14 23:06	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/19/14 23:06	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/19/14 23:06	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/19/14 23:06	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/19/14 23:06	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/19/14 23:06	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/19/14 23:06	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/19/14 23:06	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/19/14 23:06	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/19/14 23:06	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/19/14 23:06	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/19/14 23:06	1
1,3-Butadiene	0.31	J	0.88	0.14	ug/m3			03/19/14 23:06	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/19/14 23:06	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/19/14 23:06	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/19/14 23:06	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/19/14 23:06	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/19/14 23:06	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/19/14 23:06	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/19/14 23:06	1
2-Methylbutane	1.9		1.5	0.091	ug/m3			03/19/14 23:06	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/19/14 23:06	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/19/14 23:06	1
4-Methyl-2-pentanone (MIBK)	4.0	J	2.0	0.18	ug/m3			03/19/14 23:06	1
Acetone	5.5	J	12	3.3	ug/m3			03/19/14 23:06	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1-E17

Lab Sample ID: 140-1063-23

Date Collected: 03/13/14 15:17

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.76		0.64	0.18	ug/m3			03/19/14 23:06	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/19/14 23:06	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/19/14 23:06	1
Bromoform	ND		2.1	0.50	ug/m3			03/19/14 23:06	1
Bromomethane	ND		0.78	0.12	ug/m3			03/19/14 23:06	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/19/14 23:06	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/19/14 23:06	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/19/14 23:06	1
Chloroethane	ND		0.53	0.092	ug/m3			03/19/14 23:06	1
Chloroform	0.25	J	0.98	0.19	ug/m3			03/19/14 23:06	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/19/14 23:06	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/19/14 23:06	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/19/14 23:06	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/19/14 23:06	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/19/14 23:06	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/19/14 23:06	1
Ethanol	35		3.8	3.8	ug/m3			03/19/14 23:06	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/19/14 23:06	1
Heptane	0.24	J	2.0	0.19	ug/m3			03/19/14 23:06	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/19/14 23:06	1
Hexane	0.41	J	1.8	0.11	ug/m3			03/19/14 23:06	1
Indane	ND		0.97	0.97	ug/m3			03/19/14 23:06	1
Indene	ND		1.9	1.9	ug/m3			03/19/14 23:06	1
Isopropyl alcohol	14		4.9	0.23	ug/m3			03/19/14 23:06	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/19/14 23:06	1
Methylene Chloride	0.81	J	1.7	0.45	ug/m3			03/19/14 23:06	1
m-Xylene & p-Xylene	0.70	J	0.87	0.52	ug/m3			03/19/14 23:06	1
Naphthalene	ND		2.6	0.47	ug/m3			03/19/14 23:06	1
o-Xylene	0.28	J	0.87	0.26	ug/m3			03/19/14 23:06	1
Propene	4.4	J	0.86	0.13	ug/m3			03/19/14 23:06	1
Styrene	ND		0.85	0.25	ug/m3			03/19/14 23:06	1
Tetrachloroethene	0.34	J	1.4	0.27	ug/m3			03/19/14 23:06	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/19/14 23:06	1
Thiophene	ND		0.69	0.69	ug/m3			03/19/14 23:06	1
Toluene	3.1		0.75	0.45	ug/m3			03/19/14 23:06	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/19/14 23:06	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/19/14 23:06	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/19/14 23:06	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/19/14 23:06	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/19/14 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/19/14 23:06	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/20/14 00:01	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 00:01	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 00:01	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 00:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.20	0.063	ppb v/v			03/20/14 00:01	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 00:01	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 00:01	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 00:01	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 00:01	1
1,3-Butadiene	0.13	J	0.40	0.064	ppb v/v			03/20/14 00:01	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 00:01	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 00:01	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 00:01	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 00:01	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
2-Butanone (MEK)	0.27	J	1.0	0.20	ppb v/v			03/20/14 00:01	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 00:01	1
2-Methylbutane	0.61		0.50	0.031	ppb v/v			03/20/14 00:01	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 00:01	1
4-Methyl-2-pentanone (MIBK)	ND	WJ	0.50	0.045	ppb v/v			03/20/14 00:01	1
Acetone	2.6	J	5.0	1.4	ppb v/v			03/20/14 00:01	1
Benzene	0.24		0.20	0.056	ppb v/v			03/20/14 00:01	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 00:01	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 00:01	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 00:01	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 00:01	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 00:01	1
Carbon tetrachloride	0.066	J	0.20	0.038	ppb v/v			03/20/14 00:01	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 00:01	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 00:01	1
Chloroform	0.052	J	0.20	0.038	ppb v/v			03/20/14 00:01	1
Chloromethane	0.56		0.50	0.16	ppb v/v			03/20/14 00:01	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 00:01	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 00:01	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 00:01	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 00:01	1
Dichlorodifluoromethane	0.43		0.20	0.068	ppb v/v			03/20/14 00:01	1
Ethanol	18		2.0	2.0	ppb v/v			03/20/14 00:01	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 00:01	1
Heptane	0.076	J	0.50	0.047	ppb v/v			03/20/14 00:01	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 00:01	1
Hexane	0.14	J	0.50	0.032	ppb v/v			03/20/14 00:01	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 00:01	1
Isopropyl alcohol	5.4		2.0	0.094	ppb v/v			03/20/14 00:01	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 00:01	1
Methylene Chloride	0.30	J	0.50	0.13	ppb v/v			03/20/14 00:01	1
m-Xylene & p-Xylene	0.15	J	0.20	0.12	ppb v/v			03/20/14 00:01	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 00:01	1
o-Xylene	0.062	J	0.20	0.061	ppb v/v			03/20/14 00:01	1
Propene	2.4	on J	0.50	0.077	ppb v/v			03/20/14 00:01	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 00:01	1
Tetrachloroethene	0.042	J	0.20	0.040	ppb v/v			03/20/14 00:01	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 00:01	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 00:01	1
Toluene	0.63		0.20	0.12	ppb v/v			03/20/14 00:01	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 00:01	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 00:01	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 00:01	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 00:01	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 00:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 00:01	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 00:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/20/14 00:01	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 00:01	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 00:01	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 00:01	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 00:01	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			03/20/14 00:01	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 00:01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 00:01	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 00:01	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 00:01	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 00:01	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 00:01	1
1,3-Butadiene	0.28	J	0.88	0.14	ug/m3			03/20/14 00:01	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 00:01	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 00:01	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 00:01	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 00:01	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 00:01	1
2-Butanone (MEK)	0.80	J	2.9	0.59	ug/m3			03/20/14 00:01	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 00:01	1
2-Methylbutane	1.8		1.5	0.091	ug/m3			03/20/14 00:01	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 00:01	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 00:01	1
4-Methyl-2-pentanone (MIBK)	ND	UJ	2.0	0.18	ug/m3			03/20/14 00:01	1
Acetone	6.2	J	12	3.3	ug/m3			03/20/14 00:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA1FD-E17

Lab Sample ID: 140-1063-24

Date Collected: 03/13/14 16:45

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.78		0.64	0.18	ug/m3			03/20/14 00:01	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 00:01	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 00:01	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 00:01	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 00:01	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 00:01	1
Carbon tetrachloride	0.42	J	1.3	0.24	ug/m3			03/20/14 00:01	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 00:01	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 00:01	1
Chloroform	0.26	J	0.98	0.19	ug/m3			03/20/14 00:01	1
Chloromethane	1.2		1.0	0.33	ug/m3			03/20/14 00:01	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 00:01	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 00:01	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 00:01	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 00:01	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/20/14 00:01	1
Ethanol	33		3.8	3.8	ug/m3			03/20/14 00:01	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 00:01	1
Heptane	0.31	J	2.0	0.19	ug/m3			03/20/14 00:01	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 00:01	1
Hexane	0.50	J	1.8	0.11	ug/m3			03/20/14 00:01	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 00:01	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 00:01	1
Isopropyl alcohol	13		4.9	0.23	ug/m3			03/20/14 00:01	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 00:01	1
Methylene Chloride	1.1	J	1.7	0.45	ug/m3			03/20/14 00:01	1
m-Xylene & p-Xylene	0.65	J	0.87	0.52	ug/m3			03/20/14 00:01	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 00:01	1
o-Xylene	0.27	J	0.87	0.26	ug/m3			03/20/14 00:01	1
Propene	4.1	J	0.86	0.13	ug/m3			03/20/14 00:01	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 00:01	1
Tetrachloroethene	0.29	J	1.4	0.27	ug/m3			03/20/14 00:01	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 00:01	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 00:01	1
Toluene	2.4		0.75	0.45	ug/m3			03/20/14 00:01	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 00:01	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 00:01	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 00:01	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 00:01	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/20/14 00:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Date Collected: 03/13/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 01:49	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	J	0.20	0.031	ppb v/v			03/20/14 01:49	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 01:49	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 01:49	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 01:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 01:49	1
1,2,4-Trimethylbenzene	0.068	J	0.20	0.063	ppb v/v			03/20/14 01:49	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 01:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 01:49	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 01:49	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 01:49	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 01:49	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 01:49	1
1,3-Butadiene	0.58		0.40	0.064	ppb v/v			03/20/14 01:49	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 01:49	1
1,4-Dichlorobenzene	0.14	J	0.20	0.064	ppb v/v			03/20/14 01:49	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 01:49	1
2,2,4-Trimethylpentane	ND		0.50	0.039	ppb v/v			03/20/14 01:49	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
2-Butanone (MEK)	1.1		1.0	0.20	ppb v/v			03/20/14 01:49	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 01:49	1
2-Methylbutane	0.64		0.50	0.031	ppb v/v			03/20/14 01:49	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 01:49	1
4-Methyl-2-pentanone (MIBK)	0.31	J	0.50	0.045	ppb v/v			03/20/14 01:49	1
Acetone	7.4	J	5.0	1.4	ppb v/v			03/20/14 01:49	1
Benzene	0.71		0.20	0.056	ppb v/v			03/20/14 01:49	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 01:49	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 01:49	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 01:49	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 01:49	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 01:49	1
Carbon tetrachloride	0.070	J	0.20	0.038	ppb v/v			03/20/14 01:49	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 01:49	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 01:49	1
Chloroform	0.24		0.20	0.038	ppb v/v			03/20/14 01:49	1
Chloromethane	1.2		0.50	0.16	ppb v/v			03/20/14 01:49	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 01:49	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 01:49	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 01:49	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 01:49	1
Dichlorodifluoromethane	0.44		0.20	0.068	ppb v/v			03/20/14 01:49	1
Ethanol	68		2.0	2.0	ppb v/v			03/20/14 01:49	1
Ethylbenzene	0.16	J	0.20	0.068	ppb v/v			03/20/14 01:49	1
Heptane	0.11	J	0.50	0.047	ppb v/v			03/20/14 01:49	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 01:49	1
Hexane	0.17	J	0.50	0.032	ppb v/v			03/20/14 01:49	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Date Collected: 03/13/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Indane	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 01:49	1
Isopropyl alcohol	5.1		2.0	0.094	ppb v/v			03/20/14 01:49	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 01:49	1
Methylene Chloride	0.22	J	0.50	0.13	ppb v/v			03/20/14 01:49	1
m-Xylene & p-Xylene	0.48		0.20	0.12	ppb v/v			03/20/14 01:49	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 01:49	1
o-Xylene	0.14	J	0.20	0.061	ppb v/v			03/20/14 01:49	1
Propene	3.8	on J	0.50	0.077	ppb v/v			03/20/14 01:49	1
Styrene	0.10	J	0.20	0.058	ppb v/v			03/20/14 01:49	1
Tetrachloroethene	0.044	J	0.20	0.040	ppb v/v			03/20/14 01:49	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 01:49	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 01:49	1
Toluene	1.6		0.20	0.12	ppb v/v			03/20/14 01:49	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 01:49	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 01:49	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 01:49	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 01:49	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 01:49	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 01:49	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	J	1.5	0.24	ug/m3			03/20/14 01:49	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 01:49	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 01:49	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 01:49	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 01:49	1
1,2,4-Trimethylbenzene	0.34	J	0.98	0.31	ug/m3			03/20/14 01:49	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 01:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 01:49	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 01:49	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 01:49	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 01:49	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 01:49	1
1,3-Butadiene	1.3		0.88	0.14	ug/m3			03/20/14 01:49	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 01:49	1
1,4-Dichlorobenzene	0.82	J	1.2	0.38	ug/m3			03/20/14 01:49	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 01:49	1
2,2,4-Trimethylpentane	ND		2.3	0.18	ug/m3			03/20/14 01:49	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 01:49	1
2-Butanone (MEK)	3.2		2.9	0.59	ug/m3			03/20/14 01:49	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 01:49	1
2-Methylbutane	1.9		1.5	0.091	ug/m3			03/20/14 01:49	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 01:49	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 01:49	1
4-Methyl-2-pentanone (MIBK)	1.2	J	2.0	0.18	ug/m3			03/20/14 01:49	1
Acetone	18	J	12	3.3	ug/m3			03/20/14 01:49	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Client Sample ID: IA2-E17

Lab Sample ID: 140-1063-25

Date Collected: 03/13/14 16:10

Matrix: Air

Date Received: 03/17/14 11:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	2.3		0.64	0.18	ug/m3			03/20/14 01:49	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 01:49	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 01:49	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 01:49	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 01:49	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 01:49	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/20/14 01:49	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 01:49	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 01:49	1
Chloroform	1.2		0.98	0.19	ug/m3			03/20/14 01:49	1
Chloromethane	2.5		1.0	0.33	ug/m3			03/20/14 01:49	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 01:49	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 01:49	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 01:49	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 01:49	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/20/14 01:49	1
Ethanol	130		3.8	3.8	ug/m3			03/20/14 01:49	1
Ethylbenzene	0.70	J	0.87	0.30	ug/m3			03/20/14 01:49	1
Heptane	0.44	J	2.0	0.19	ug/m3			03/20/14 01:49	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 01:49	1
Hexane	0.59	J	1.8	0.11	ug/m3			03/20/14 01:49	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 01:49	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 01:49	1
Isopropyl alcohol	12		4.9	0.23	ug/m3			03/20/14 01:49	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 01:49	1
Methylene Chloride	0.78	J	1.7	0.45	ug/m3			03/20/14 01:49	1
m-Xylene & p-Xylene	2.1		0.87	0.52	ug/m3			03/20/14 01:49	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 01:49	1
o-Xylene	0.59	J	0.87	0.26	ug/m3			03/20/14 01:49	1
Propene	6.6	on J	0.86	0.13	ug/m3			03/20/14 01:49	1
Styrene	0.43	J	0.85	0.25	ug/m3			03/20/14 01:49	1
Tetrachloroethene	0.30	J	1.4	0.27	ug/m3			03/20/14 01:49	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 01:49	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 01:49	1
Toluene	5.9		0.75	0.45	ug/m3			03/20/14 01:49	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 01:49	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 01:49	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 01:49	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 01:49	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/20/14 01:49	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/21/14 23:34	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/21/14 23:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/21/14 23:34	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/21/14 23:34	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/21/14 23:34	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/21/14 23:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/21/14 23:34	1
1,2,4-Trimethylbenzene	0.11	J	0.20	0.063	ppb v/v			03/21/14 23:34	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/21/14 23:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/21/14 23:34	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/21/14 23:34	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/21/14 23:34	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/21/14 23:34	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/21/14 23:34	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/21/14 23:34	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/21/14 23:34	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/21/14 23:34	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/21/14 23:34	1
2,2,4-Trimethylpentane	0.093	J	0.50	0.039	ppb v/v			03/21/14 23:34	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
2-Butanone (MEK)	0.59	J	1.0	0.20	ppb v/v			03/21/14 23:34	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/21/14 23:34	1
2-Methylbutane	0.71		0.50	0.031	ppb v/v			03/21/14 23:34	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
4-Ethyltoluene	0.10	J	0.40	0.066	ppb v/v			03/21/14 23:34	1
4-Methyl-2-pentanone (MIBK)	0.13	J	0.50	0.045	ppb v/v			03/21/14 23:34	1
Acetone	5.9	J	5.0	1.4	ppb v/v			03/21/14 23:34	1
Benzene	0.28		0.20	0.056	ppb v/v			03/21/14 23:34	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/21/14 23:34	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/21/14 23:34	1
Bromoform	ND		0.20	0.048	ppb v/v			03/21/14 23:34	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/21/14 23:34	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/21/14 23:34	1
Carbon tetrachloride	0.080	J	0.20	0.038	ppb v/v			03/21/14 23:34	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/21/14 23:34	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/21/14 23:34	1
Chloroform	0.091	J	0.20	0.038	ppb v/v			03/21/14 23:34	1
Chloromethane	0.52		0.50	0.16	ppb v/v			03/21/14 23:34	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/21/14 23:34	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/21/14 23:34	1
Cyclohexane	0.13	J	0.50	0.040	ppb v/v			03/21/14 23:34	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/21/14 23:34	1
Dichlorodifluoromethane	0.69		0.20	0.068	ppb v/v			03/21/14 23:34	1
Ethanol	230	E	2.0	2.0	ppb v/v			03/21/14 23:34	1
Ethylbenzene	0.12	J	0.20	0.068	ppb v/v			03/21/14 23:34	1
Heptane	0.38	J	0.50	0.047	ppb v/v			03/21/14 23:34	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/21/14 23:34	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Hexane	0.16	J	0.50	0.032	ppb v/v			03/21/14 23:34	1
Indane	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
Indene	ND		0.40	0.40	ppb v/v			03/21/14 23:34	1
Isopropyl alcohol	6.1		2.0	0.094	ppb v/v			03/21/14 23:34	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/21/14 23:34	1
Methylene Chloride	0.25	J	0.50	0.13	ppb v/v			03/21/14 23:34	1
m-Xylene & p-Xylene	0.28		0.20	0.12	ppb v/v			03/21/14 23:34	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/21/14 23:34	1
o-Xylene	0.12	J	0.20	0.061	ppb v/v			03/21/14 23:34	1
Propene	0.93	en-J	0.50	0.077	ppb v/v			03/21/14 23:34	1
Styrene	0.086	J	0.20	0.058	ppb v/v			03/21/14 23:34	1
Tetrachloroethene	0.17	J	0.20	0.040	ppb v/v			03/21/14 23:34	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/21/14 23:34	1
Thiophene	ND		0.20	0.20	ppb v/v			03/21/14 23:34	1
Toluene	1.5		0.20	0.12	ppb v/v			03/21/14 23:34	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/21/14 23:34	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/21/14 23:34	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/21/14 23:34	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/21/14 23:34	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/21/14 23:34	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/21/14 23:34	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/21/14 23:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/21/14 23:34	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/21/14 23:34	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/21/14 23:34	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/21/14 23:34	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/21/14 23:34	1
1,2,4-Trimethylbenzene	0.55	J	0.98	0.31	ug/m3			03/21/14 23:34	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/21/14 23:34	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/21/14 23:34	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/21/14 23:34	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/21/14 23:34	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/21/14 23:34	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/21/14 23:34	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/21/14 23:34	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/21/14 23:34	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/21/14 23:34	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/21/14 23:34	1
2,2,4-Trimethylpentane	0.43	J	2.3	0.18	ug/m3			03/21/14 23:34	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/21/14 23:34	1
2-Butanone (MEK)	1.7	J	2.9	0.59	ug/m3			03/21/14 23:34	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/21/14 23:34	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/21/14 23:34	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/21/14 23:34	1
4-Ethyltoluene	0.51	J	2.0	0.32	ug/m3			03/21/14 23:34	1
4-Methyl-2-pentanone (MIBK)	0.51	J	2.0	0.18	ug/m3			03/21/14 23:34	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Acetone	14	J	12	3.3	ug/m3			03/21/14 23:34	1
Benzene	0.91		0.64	0.18	ug/m3			03/21/14 23:34	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/21/14 23:34	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/21/14 23:34	1
Bromoform	ND		2.1	0.50	ug/m3			03/21/14 23:34	1
Bromomethane	ND		0.78	0.12	ug/m3			03/21/14 23:34	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/21/14 23:34	1
Carbon tetrachloride	0.50	J	1.3	0.24	ug/m3			03/21/14 23:34	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/21/14 23:34	1
Chloroethane	ND		0.53	0.092	ug/m3			03/21/14 23:34	1
Chloroform	0.44	J	0.98	0.19	ug/m3			03/21/14 23:34	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/21/14 23:34	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/21/14 23:34	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/21/14 23:34	1
Cyclohexane	0.46	J	1.7	0.14	ug/m3			03/21/14 23:34	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/21/14 23:34	1
Dichlorodifluoromethane	3.4		0.99	0.34	ug/m3			03/21/14 23:34	1
Ethanol	430	E	3.8	3.8	ug/m3			03/21/14 23:34	1
Ethylbenzene	0.52	J	0.87	0.30	ug/m3			03/21/14 23:34	1
Heptane	1.6	J	2.0	0.19	ug/m3			03/21/14 23:34	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/21/14 23:34	1
Hexane	0.55	J	1.8	0.11	ug/m3			03/21/14 23:34	1
Indane	ND		0.97	0.97	ug/m3			03/21/14 23:34	1
Indene	ND		1.9	1.9	ug/m3			03/21/14 23:34	1
Isopropyl alcohol	15		4.9	0.23	ug/m3			03/21/14 23:34	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/21/14 23:34	1
Methylene Chloride	0.86	J	1.7	0.45	ug/m3			03/21/14 23:34	1
m-Xylene & p-Xylene	1.2		0.87	0.52	ug/m3			03/21/14 23:34	1
Naphthalene	ND		2.6	0.47	ug/m3			03/21/14 23:34	1
o-Xylene	0.52	J	0.87	0.26	ug/m3			03/21/14 23:34	1
Propene	1.6	on J	0.86	0.13	ug/m3			03/21/14 23:34	1
Styrene	0.36	J	0.85	0.25	ug/m3			03/21/14 23:34	1
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3			03/21/14 23:34	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/21/14 23:34	1
Thiophene	ND		0.69	0.69	ug/m3			03/21/14 23:34	1
Toluene	5.7		0.75	0.45	ug/m3			03/21/14 23:34	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/21/14 23:34	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/21/14 23:34	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/21/14 23:34	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/21/14 23:34	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/21/14 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	91		60 - 140		03/21/14 23:34	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Ethanol	240		4.0	4.0	ppb v/v			03/24/14 22:33	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Client Sample ID: SAMPLE 1- CRAWLSPACE

Lab Sample ID: 140-1073-1

Date Collected: 03/15/14 15:32

Matrix: Air

Date Received: 03/19/14 10:15

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	450		7.5	7.5	ug/m3			03/24/14 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/24/14 22:33	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 02:43	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/20/14 02:43	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 02:43	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 02:43	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 02:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 02:43	1
1,2,4-Trimethylbenzene	0.10	J	0.20	0.063	ppb v/v			03/20/14 02:43	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 02:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 02:43	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 02:43	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 02:43	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 02:43	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 02:43	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 02:43	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 02:43	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 02:43	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 02:43	1
2,2,4-Trimethylpentane	0.094	J	0.50	0.039	ppb v/v			03/20/14 02:43	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
2-Butanone (MEK)	0.43	J	1.0	0.20	ppb v/v			03/20/14 02:43	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 02:43	1
2-Methylbutane	0.72		0.50	0.031	ppb v/v			03/20/14 02:43	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 02:43	1
4-Methyl-2-pentanone (MIBK)	0.15	J	0.50	0.045	ppb v/v			03/20/14 02:43	1
Acetone	4.8	J	5.0	1.4	ppb v/v			03/20/14 02:43	1
Benzene	0.27		0.20	0.056	ppb v/v			03/20/14 02:43	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 02:43	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 02:43	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 02:43	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 02:43	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 02:43	1
Carbon tetrachloride	0.074	J	0.20	0.038	ppb v/v			03/20/14 02:43	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 02:43	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 02:43	1
Chloroform	0.093	J	0.20	0.038	ppb v/v			03/20/14 02:43	1
Chloromethane	0.61		0.50	0.16	ppb v/v			03/20/14 02:43	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 02:43	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 02:43	1
Cyclohexane	0.14	J	0.50	0.040	ppb v/v			03/20/14 02:43	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 02:43	1
Dichlorodifluoromethane	0.67		0.20	0.068	ppb v/v			03/20/14 02:43	1
Ethanol	230	E	2.0	2.0	ppb v/v			03/20/14 02:43	1
Ethylbenzene	0.11	J	0.20	0.068	ppb v/v			03/20/14 02:43	1
Heptane	0.42	J	0.50	0.047	ppb v/v			03/20/14 02:43	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 02:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Hexane	0.19	J	0.50	0.032	ppb v/v			03/20/14 02:43	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 02:43	1
Isopropyl alcohol	5.9		2.0	0.094	ppb v/v			03/20/14 02:43	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 02:43	1
Methylene Chloride	0.40	J	0.50	0.13	ppb v/v			03/20/14 02:43	1
m-Xylene & p-Xylene	0.24		0.20	0.12	ppb v/v			03/20/14 02:43	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 02:43	1
o-Xylene	0.10	J	0.20	0.061	ppb v/v			03/20/14 02:43	1
Propene	0.81	en J	0.50	0.077	ppb v/v			03/20/14 02:43	1
Styrene	0.082	J	0.20	0.058	ppb v/v			03/20/14 02:43	1
Tetrachloroethene	0.16	J	0.20	0.040	ppb v/v			03/20/14 02:43	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 02:43	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 02:43	1
Toluene	1.2		0.20	0.12	ppb v/v			03/20/14 02:43	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 02:43	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 02:43	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 02:43	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 02:43	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 02:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 02:43	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 02:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/20/14 02:43	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 02:43	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 02:43	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 02:43	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 02:43	1
1,2,4-Trimethylbenzene	0.50	J	0.98	0.31	ug/m3			03/20/14 02:43	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 02:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 02:43	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 02:43	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 02:43	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 02:43	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 02:43	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 02:43	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 02:43	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 02:43	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 02:43	1
2,2,4-Trimethylpentane	0.44	J	2.3	0.18	ug/m3			03/20/14 02:43	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 02:43	1
2-Butanone (MEK)	1.3	J	2.9	0.59	ug/m3			03/20/14 02:43	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 02:43	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/20/14 02:43	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 02:43	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 02:43	1
4-Methyl-2-pentanone (MIBK)	0.60	J	2.0	0.18	ug/m3			03/20/14 02:43	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12	J	12	3.3	ug/m3			03/20/14 02:43	1
Benzene	0.86		0.64	0.18	ug/m3			03/20/14 02:43	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 02:43	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 02:43	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 02:43	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 02:43	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 02:43	1
Carbon tetrachloride	0.47	J	1.3	0.24	ug/m3			03/20/14 02:43	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 02:43	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 02:43	1
Chloroform	0.46	J	0.98	0.19	ug/m3			03/20/14 02:43	1
Chloromethane	1.3		1.0	0.33	ug/m3			03/20/14 02:43	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 02:43	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 02:43	1
Cyclohexane	0.46	J	1.7	0.14	ug/m3			03/20/14 02:43	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 02:43	1
Dichlorodifluoromethane	3.3		0.99	0.34	ug/m3			03/20/14 02:43	1
Ethanol	420	E	3.8	3.8	ug/m3			03/20/14 02:43	1
Ethylbenzene	0.46	J	0.87	0.30	ug/m3			03/20/14 02:43	1
Heptane	1.7	J	2.0	0.19	ug/m3			03/20/14 02:43	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 02:43	1
Hexane	0.67	J	1.8	0.11	ug/m3			03/20/14 02:43	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 02:43	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 02:43	1
Isopropyl alcohol	14		4.9	0.23	ug/m3			03/20/14 02:43	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 02:43	1
Methylene Chloride	1.4	J	1.7	0.45	ug/m3			03/20/14 02:43	1
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3			03/20/14 02:43	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 02:43	1
o-Xylene	0.45	J	0.87	0.26	ug/m3			03/20/14 02:43	1
Propene	1.4	en J	0.86	0.13	ug/m3			03/20/14 02:43	1
Styrene	0.35	J	0.85	0.25	ug/m3			03/20/14 02:43	1
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3			03/20/14 02:43	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 02:43	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 02:43	1
Toluene	4.6		0.75	0.45	ug/m3			03/20/14 02:43	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 02:43	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 02:43	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 02:43	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 02:43	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140		03/20/14 02:43	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	190		4.0	4.0	ppb v/v			03/21/14 02:10	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 2- ROOM # 4

Lab Sample ID: 140-1065-1

Date Collected: 03/15/14 15:45

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	360		7.5	7.5	ug/m3			03/21/14 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/21/14 02:10	1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 03:37	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	J	0.20	0.031	ppb v/v			03/20/14 03:37	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 03:37	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 03:37	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 03:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 03:37	1
1,2,4-Trimethylbenzene	0.10	J	0.20	0.063	ppb v/v			03/20/14 03:37	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 03:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 03:37	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 03:37	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 03:37	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 03:37	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 03:37	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 03:37	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 03:37	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 03:37	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 03:37	1
2,2,4-Trimethylpentane	0.082	J	0.50	0.039	ppb v/v			03/20/14 03:37	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
2-Butanone (MEK)	0.66	J	1.0	0.20	ppb v/v			03/20/14 03:37	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 03:37	1
2-Methylbutane	0.92		0.50	0.031	ppb v/v			03/20/14 03:37	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 03:37	1
4-Methyl-2-pentanone (MIBK)	0.46	J	0.50	0.045	ppb v/v			03/20/14 03:37	1
Acetone	6.0	J	5.0	1.4	ppb v/v			03/20/14 03:37	1
Benzene	0.24		0.20	0.056	ppb v/v			03/20/14 03:37	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 03:37	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 03:37	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 03:37	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 03:37	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 03:37	1
Carbon tetrachloride	0.077	J	0.20	0.038	ppb v/v			03/20/14 03:37	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 03:37	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 03:37	1
Chloroform	0.097	J	0.20	0.038	ppb v/v			03/20/14 03:37	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.53		0.50	0.16	ppb v/v			03/20/14 03:37	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 03:37	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 03:37	1
Cyclohexane	0.12	J	0.50	0.040	ppb v/v			03/20/14 03:37	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 03:37	1
Dichlorodifluoromethane	0.76		0.20	0.068	ppb v/v			03/20/14 03:37	1
Ethanol	240	E	2.0	2.0	ppb v/v			03/20/14 03:37	1
Ethylbenzene	0.10	J	0.20	0.068	ppb v/v			03/20/14 03:37	1
Heptane	0.34	J	0.50	0.047	ppb v/v			03/20/14 03:37	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 03:37	1
Hexane	0.18	J	0.50	0.032	ppb v/v			03/20/14 03:37	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 03:37	1
Isopropyl alcohol	5.7		2.0	0.094	ppb v/v			03/20/14 03:37	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 03:37	1
Methylene Chloride	0.27	J	0.50	0.13	ppb v/v			03/20/14 03:37	1
m-Xylene & p-Xylene	0.24		0.20	0.12	ppb v/v			03/20/14 03:37	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 03:37	1
o-Xylene	0.098	J	0.20	0.061	ppb v/v			03/20/14 03:37	1
Propene	1.0	en-J	0.50	0.077	ppb v/v			03/20/14 03:37	1
Styrene	0.081	J	0.20	0.058	ppb v/v			03/20/14 03:37	1
Tetrachloroethene	0.16	J	0.20	0.040	ppb v/v			03/20/14 03:37	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 03:37	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 03:37	1
Toluene	1.4		0.20	0.12	ppb v/v			03/20/14 03:37	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 03:37	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 03:37	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 03:37	1
Trichlorofluoromethane	0.21		0.20	0.024	ppb v/v			03/20/14 03:37	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 03:37	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 03:37	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	J	1.5	0.24	ug/m3			03/20/14 03:37	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 03:37	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 03:37	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 03:37	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 03:37	1
1,2,4-Trimethylbenzene	0.51	J	0.98	0.31	ug/m3			03/20/14 03:37	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 03:37	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 03:37	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 03:37	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 03:37	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 03:37	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 03:37	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 03:37	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 03:37	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 03:37	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 03:37	1
2,2,4-Trimethylpentane	0.38	J	2.3	0.18	ug/m3			03/20/14 03:37	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 03:37	1
2-Butanone (MEK)	2.0	J	2.9	0.59	ug/m3			03/20/14 03:37	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 03:37	1
2-Methylbutane	2.7		1.5	0.091	ug/m3			03/20/14 03:37	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 03:37	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 03:37	1
4-Methyl-2-pentanone (MIBK)	1.9	J	2.0	0.18	ug/m3			03/20/14 03:37	1
Acetone	14	J	12	3.3	ug/m3			03/20/14 03:37	1
Benzene	0.76		0.64	0.18	ug/m3			03/20/14 03:37	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 03:37	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 03:37	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 03:37	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 03:37	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 03:37	1
Carbon tetrachloride	0.48	J	1.3	0.24	ug/m3			03/20/14 03:37	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 03:37	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 03:37	1
Chloroform	0.47	J	0.98	0.19	ug/m3			03/20/14 03:37	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/20/14 03:37	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 03:37	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 03:37	1
Cyclohexane	0.41	J	1.7	0.14	ug/m3			03/20/14 03:37	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 03:37	1
Dichlorodifluoromethane	3.8		0.99	0.34	ug/m3			03/20/14 03:37	1
Ethanol	300	E	3.8	3.8	ug/m3			03/20/14 03:37	1
Ethylbenzene	0.44	J	0.87	0.30	ug/m3			03/20/14 03:37	1
Heptane	1.4	J	2.0	0.19	ug/m3			03/20/14 03:37	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 03:37	1
Hexane	0.62	J	1.8	0.11	ug/m3			03/20/14 03:37	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 03:37	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 03:37	1
Isopropyl alcohol	14		4.9	0.23	ug/m3			03/20/14 03:37	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 03:37	1
Methylene Chloride	0.94	J	1.7	0.45	ug/m3			03/20/14 03:37	1
m-Xylene & p-Xylene	1.0		0.87	0.52	ug/m3			03/20/14 03:37	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 03:37	1
o-Xylene	0.43	J	0.87	0.26	ug/m3			03/20/14 03:37	1
Propene	1.8	en J	0.86	0.13	ug/m3			03/20/14 03:37	1
Styrene	0.34	J	0.85	0.25	ug/m3			03/20/14 03:37	1
Tetrachloroethene	1.1	J	1.4	0.27	ug/m3			03/20/14 03:37	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 03:37	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 03:37	1
Toluene	5.3		0.75	0.45	ug/m3			03/20/14 03:37	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 03:37	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 03:37	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 3- ROOM # 2

Lab Sample ID: 140-1065-2

Date Collected: 03/15/14 15:25

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 03:37	1
Trichlorofluoromethane	1.2		1.1	0.13	ug/m3			03/20/14 03:37	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140					03/20/14 03:37	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	190		4.0	4.0	ppb v/v			03/21/14 02:57	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	360		7.5	7.5	ug/m3			03/21/14 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/21/14 02:57	1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 04:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.066	J	0.20	0.031	ppb v/v			03/20/14 04:32	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 04:32	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 04:32	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 04:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 04:32	1
1,2,4-Trimethylbenzene	0.15	J	0.20	0.063	ppb v/v			03/20/14 04:32	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 04:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 04:32	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 04:32	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 04:32	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 04:32	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 04:32	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 04:32	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 04:32	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 04:32	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 04:32	1
2,2,4-Trimethylpentane	0.084	J	0.50	0.039	ppb v/v			03/20/14 04:32	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
2-Butanone (MEK)	0.61	J	1.0	0.20	ppb v/v			03/20/14 04:32	1
2-Hexanone	0.064	J	0.50	0.058	ppb v/v			03/20/14 04:32	1
2-Methylbutane	0.70		0.50	0.031	ppb v/v			03/20/14 04:32	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 04:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	1.8		0.50	0.045	ppb v/v			03/20/14 04:32	1
Acetone	3.6	J	5.0	1.4	ppb v/v			03/20/14 04:32	1
Benzene	0.24		0.20	0.056	ppb v/v			03/20/14 04:32	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 04:32	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 04:32	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 04:32	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 04:32	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 04:32	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/20/14 04:32	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 04:32	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 04:32	1
Chloroform	ND		0.20	0.038	ppb v/v			03/20/14 04:32	1
Chloromethane	0.50		0.50	0.16	ppb v/v			03/20/14 04:32	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 04:32	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 04:32	1
Cyclohexane	ND		0.50	0.040	ppb v/v			03/20/14 04:32	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 04:32	1
Dichlorodifluoromethane	0.42		0.20	0.068	ppb v/v			03/20/14 04:32	1
Ethanol	14		2.0	2.0	ppb v/v			03/20/14 04:32	1
Ethylbenzene	ND		0.20	0.068	ppb v/v			03/20/14 04:32	1
Heptane	0.10	J	0.50	0.047	ppb v/v			03/20/14 04:32	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 04:32	1
Hexane	0.20	J	0.50	0.032	ppb v/v			03/20/14 04:32	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 04:32	1
Isopropyl alcohol	0.78	J	2.0	0.094	ppb v/v			03/20/14 04:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 04:32	1
Methylene Chloride	0.37	J	0.50	0.13	ppb v/v			03/20/14 04:32	1
m-Xylene & p-Xylene	0.21		0.20	0.12	ppb v/v			03/20/14 04:32	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 04:32	1
o-Xylene	0.093	J	0.20	0.061	ppb v/v			03/20/14 04:32	1
Propene	0.81	en-J	0.50	0.077	ppb v/v			03/20/14 04:32	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 04:32	1
Tetrachloroethene	0.33		0.20	0.040	ppb v/v			03/20/14 04:32	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 04:32	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 04:32	1
Toluene	0.36		0.20	0.12	ppb v/v			03/20/14 04:32	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 04:32	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 04:32	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 04:32	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 04:32	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 04:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 04:32	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 04:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	J	1.5	0.24	ug/m3			03/20/14 04:32	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 04:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 04:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 04:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 04:32	1
1,2,4-Trimethylbenzene	0.73	J	0.98	0.31	ug/m3			03/20/14 04:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 04:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 04:32	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 04:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 04:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 04:32	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 04:32	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 04:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 04:32	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 04:32	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 04:32	1
2,2,4-Trimethylpentane	0.39	J	2.3	0.18	ug/m3			03/20/14 04:32	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 04:32	1
2-Butanone (MEK)	1.8	J	2.9	0.59	ug/m3			03/20/14 04:32	1
2-Hexanone	0.26	J	2.0	0.24	ug/m3			03/20/14 04:32	1
2-Methylbutane	2.1		1.5	0.091	ug/m3			03/20/14 04:32	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 04:32	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 04:32	1
4-Methyl-2-pentanone (MIBK)	7.2		2.0	0.18	ug/m3			03/20/14 04:32	1
Acetone	8.6	J	12	3.3	ug/m3			03/20/14 04:32	1
Benzene	0.75		0.64	0.18	ug/m3			03/20/14 04:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 04:32	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 04:32	1
Bromoform	ND		2.1	0.50	ug/m3			03/20/14 04:32	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 04:32	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 04:32	1
Carbon tetrachloride	0.43	J	1.3	0.24	ug/m3			03/20/14 04:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 04:32	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 04:32	1
Chloroform	ND		0.98	0.19	ug/m3			03/20/14 04:32	1
Chloromethane	1.0		1.0	0.33	ug/m3			03/20/14 04:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 04:32	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 04:32	1
Cyclohexane	ND		1.7	0.14	ug/m3			03/20/14 04:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 04:32	1
Dichlorodifluoromethane	2.1		0.99	0.34	ug/m3			03/20/14 04:32	1
Ethanol	26		3.8	3.8	ug/m3			03/20/14 04:32	1
Ethylbenzene	ND		0.87	0.30	ug/m3			03/20/14 04:32	1
Heptane	0.41	J	2.0	0.19	ug/m3			03/20/14 04:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 04:32	1
Hexane	0.71	J	1.8	0.11	ug/m3			03/20/14 04:32	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 04:32	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 04:32	1
Isopropyl alcohol	1.9	J	4.9	0.23	ug/m3			03/20/14 04:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 04:32	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 4- AMBIENT

Lab Sample ID: 140-1065-3

Date Collected: 03/15/14 14:57

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.3	J	1.7	0.45	ug/m3			03/20/14 04:32	1
m-Xylene & p-Xylene	0.93		0.87	0.52	ug/m3			03/20/14 04:32	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 04:32	1
o-Xylene	0.40	J	0.87	0.26	ug/m3			03/20/14 04:32	1
Propene	1.4	en J	0.86	0.13	ug/m3			03/20/14 04:32	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 04:32	1
Tetrachloroethene	2.2		1.4	0.27	ug/m3			03/20/14 04:32	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 04:32	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 04:32	1
Toluene	1.4		0.75	0.45	ug/m3			03/20/14 04:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 04:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 04:32	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 04:32	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 04:32	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/20/14 04:32	1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.030	ppb v/v			03/20/14 05:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.061	ppb v/v			03/20/14 05:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.068	J	0.20	0.031	ppb v/v			03/20/14 05:26	1
1,1,2-Trichloroethane	ND		0.20	0.054	ppb v/v			03/20/14 05:26	1
1,1-Dichloroethane	ND		0.20	0.026	ppb v/v			03/20/14 05:26	1
1,1-Dichloroethene	ND		0.20	0.034	ppb v/v			03/20/14 05:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.098	ppb v/v			03/20/14 05:26	1
1,2,4-Trimethylbenzene	0.13	J	0.20	0.063	ppb v/v			03/20/14 05:26	1
1,2-Dibromoethane (EDB)	ND		0.20	0.044	ppb v/v			03/20/14 05:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.20	0.032	ppb v/v			03/20/14 05:26	1
1,2-Dichlorobenzene	ND		0.20	0.070	ppb v/v			03/20/14 05:26	1
1,2-Dichloroethane	ND		0.20	0.047	ppb v/v			03/20/14 05:26	1
1,2-Dichloropropane	ND		0.20	0.052	ppb v/v			03/20/14 05:26	1
1,3,5-Trimethylbenzene	ND		0.20	0.065	ppb v/v			03/20/14 05:26	1
1,3-Butadiene	ND		0.40	0.064	ppb v/v			03/20/14 05:26	1
1,3-Dichlorobenzene	ND		0.20	0.065	ppb v/v			03/20/14 05:26	1
1,4-Dichlorobenzene	ND		0.20	0.064	ppb v/v			03/20/14 05:26	1
1,4-Dioxane	ND		0.50	0.080	ppb v/v			03/20/14 05:26	1
2,2,4-Trimethylpentane	0.073	J	0.50	0.039	ppb v/v			03/20/14 05:26	1
2,3-Dimethylpentane	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
2-Butanone (MEK)	0.36	J	1.0	0.20	ppb v/v			03/20/14 05:26	1
2-Hexanone	ND		0.50	0.058	ppb v/v			03/20/14 05:26	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylbutane	0.59		0.50	0.031	ppb v/v			03/20/14 05:26	1
2-Methylpentane	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
4-Ethyltoluene	ND		0.40	0.066	ppb v/v			03/20/14 05:26	1
4-Methyl-2-pentanone (MIBK)	0.20	J	0.50	0.045	ppb v/v			03/20/14 05:26	1
Acetone	4.4	J	5.0	1.4	ppb v/v			03/20/14 05:26	1
Benzene	0.22		0.20	0.056	ppb v/v			03/20/14 05:26	1
Benzyl chloride	ND		0.40	0.078	ppb v/v			03/20/14 05:26	1
Bromodichloromethane	ND		0.20	0.044	ppb v/v			03/20/14 05:26	1
Bromoform	ND		0.20	0.048	ppb v/v			03/20/14 05:26	1
Bromomethane	ND		0.20	0.032	ppb v/v			03/20/14 05:26	1
Carbon disulfide	ND		0.50	0.031	ppb v/v			03/20/14 05:26	1
Carbon tetrachloride	0.069	J	0.20	0.038	ppb v/v			03/20/14 05:26	1
Chlorobenzene	ND		0.20	0.049	ppb v/v			03/20/14 05:26	1
Chloroethane	ND		0.20	0.035	ppb v/v			03/20/14 05:26	1
Chloroform	0.051	J	0.20	0.038	ppb v/v			03/20/14 05:26	1
Chloromethane	0.55		0.50	0.16	ppb v/v			03/20/14 05:26	1
cis-1,2-Dichloroethene	ND		0.20	0.060	ppb v/v			03/20/14 05:26	1
cis-1,3-Dichloropropene	ND		0.20	0.074	ppb v/v			03/20/14 05:26	1
Cyclohexane	0.16	J	0.50	0.040	ppb v/v			03/20/14 05:26	1
Dibromochloromethane	ND		0.20	0.042	ppb v/v			03/20/14 05:26	1
Dichlorodifluoromethane	0.45		0.20	0.068	ppb v/v			03/20/14 05:26	1
Ethanol	120		2.0	2.0	ppb v/v			03/20/14 05:26	1
Ethylbenzene	0.072	J	0.20	0.068	ppb v/v			03/20/14 05:26	1
Heptane	0.16	J	0.50	0.047	ppb v/v			03/20/14 05:26	1
Hexachlorobutadiene	ND		1.0	0.078	ppb v/v			03/20/14 05:26	1
Hexane	0.15	J	0.50	0.032	ppb v/v			03/20/14 05:26	1
Indane	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
Indene	ND		0.40	0.40	ppb v/v			03/20/14 05:26	1
Isopropyl alcohol	4.5		2.0	0.094	ppb v/v			03/20/14 05:26	1
Methyl tert-butyl ether	ND		1.0	0.17	ppb v/v			03/20/14 05:26	1
Methylene Chloride	0.21	J	0.50	0.13	ppb v/v			03/20/14 05:26	1
m-Xylene & p-Xylene	0.21		0.20	0.12	ppb v/v			03/20/14 05:26	1
Naphthalene	ND		0.50	0.090	ppb v/v			03/20/14 05:26	1
o-Xylene	0.092	J	0.20	0.061	ppb v/v			03/20/14 05:26	1
Propene	0.76	en J	0.50	0.077	ppb v/v			03/20/14 05:26	1
Styrene	ND		0.20	0.058	ppb v/v			03/20/14 05:26	1
Tetrachloroethene	0.18	J	0.20	0.040	ppb v/v			03/20/14 05:26	1
Tetrahydrofuran	ND		1.0	0.063	ppb v/v			03/20/14 05:26	1
Thiophene	ND		0.20	0.20	ppb v/v			03/20/14 05:26	1
Toluene	0.44		0.20	0.12	ppb v/v			03/20/14 05:26	1
trans-1,2-Dichloroethene	ND		0.20	0.050	ppb v/v			03/20/14 05:26	1
trans-1,3-Dichloropropene	ND		0.20	0.048	ppb v/v			03/20/14 05:26	1
Trichloroethene	ND		0.20	0.036	ppb v/v			03/20/14 05:26	1
Trichlorofluoromethane	0.20		0.20	0.024	ppb v/v			03/20/14 05:26	1
Vinyl chloride	ND		0.20	0.071	ppb v/v			03/20/14 05:26	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			03/20/14 05:26	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			03/20/14 05:26	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	J	1.5	0.24	ug/m3			03/20/14 05:26	1
1,1,2-Trichloroethane	ND		1.1	0.29	ug/m3			03/20/14 05:26	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			03/20/14 05:26	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			03/20/14 05:26	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			03/20/14 05:26	1
1,2,4-Trimethylbenzene	0.65	J	0.98	0.31	ug/m3			03/20/14 05:26	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			03/20/14 05:26	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			03/20/14 05:26	1
1,2-Dichlorobenzene	ND		1.2	0.42	ug/m3			03/20/14 05:26	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			03/20/14 05:26	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			03/20/14 05:26	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			03/20/14 05:26	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			03/20/14 05:26	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			03/20/14 05:26	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			03/20/14 05:26	1
1,4-Dioxane	ND		1.8	0.29	ug/m3			03/20/14 05:26	1
2,2,4-Trimethylpentane	0.34	J	2.3	0.18	ug/m3			03/20/14 05:26	1
2,3-Dimethylpentane	ND		0.82	0.82	ug/m3			03/20/14 05:26	1
2-Butanone (MEK)	1.1	J	2.9	0.59	ug/m3			03/20/14 05:26	1
2-Hexanone	ND		2.0	0.24	ug/m3			03/20/14 05:26	1
2-Methylbutane	1.7		1.5	0.091	ug/m3			03/20/14 05:26	1
2-Methylpentane	ND		0.70	0.70	ug/m3			03/20/14 05:26	1
4-Ethyltoluene	ND		2.0	0.32	ug/m3			03/20/14 05:26	1
4-Methyl-2-pentanone (MIBK)	0.80	J	2.0	0.18	ug/m3			03/20/14 05:26	1
Acetone	10	J	12	3.3	ug/m3			03/20/14 05:26	1
Benzene	0.71		0.64	0.18	ug/m3			03/20/14 05:26	1
Benzyl chloride	ND		2.1	0.40	ug/m3			03/20/14 05:26	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			03/20/14 05:26	1
Bromofom	ND		2.1	0.50	ug/m3			03/20/14 05:26	1
Bromomethane	ND		0.78	0.12	ug/m3			03/20/14 05:26	1
Carbon disulfide	ND		1.6	0.097	ug/m3			03/20/14 05:26	1
Carbon tetrachloride	0.44	J	1.3	0.24	ug/m3			03/20/14 05:26	1
Chlorobenzene	ND		0.92	0.23	ug/m3			03/20/14 05:26	1
Chloroethane	ND		0.53	0.092	ug/m3			03/20/14 05:26	1
Chloroform	0.25	J	0.98	0.19	ug/m3			03/20/14 05:26	1
Chloromethane	1.1		1.0	0.33	ug/m3			03/20/14 05:26	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			03/20/14 05:26	1
cis-1,3-Dichloropropene	ND		0.91	0.34	ug/m3			03/20/14 05:26	1
Cyclohexane	0.53	J	1.7	0.14	ug/m3			03/20/14 05:26	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			03/20/14 05:26	1
Dichlorodifluoromethane	2.2		0.99	0.34	ug/m3			03/20/14 05:26	1
Ethanol	220		3.8	3.8	ug/m3			03/20/14 05:26	1
Ethylbenzene	0.31	J	0.87	0.30	ug/m3			03/20/14 05:26	1
Heptane	0.65	J	2.0	0.19	ug/m3			03/20/14 05:26	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			03/20/14 05:26	1
Hexane	0.53	J	1.8	0.11	ug/m3			03/20/14 05:26	1
Indane	ND		0.97	0.97	ug/m3			03/20/14 05:26	1
Indene	ND		1.9	1.9	ug/m3			03/20/14 05:26	1

TestAmerica Knoxville

Client Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Client Sample ID: SAMPLE 5- ROOM #11

Lab Sample ID: 140-1065-4

Date Collected: 03/15/14 15:28

Matrix: Air

Date Received: 03/18/14 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	11		4.9	0.23	ug/m3			03/20/14 05:26	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			03/20/14 05:26	1
Methylene Chloride	0.75	J	1.7	0.45	ug/m3			03/20/14 05:26	1
m-Xylene & p-Xylene	0.91		0.87	0.52	ug/m3			03/20/14 05:26	1
Naphthalene	ND		2.6	0.47	ug/m3			03/20/14 05:26	1
o-Xylene	0.40	J	0.87	0.26	ug/m3			03/20/14 05:26	1
Propene	1.3	en J	0.86	0.13	ug/m3			03/20/14 05:26	1
Styrene	ND		0.85	0.25	ug/m3			03/20/14 05:26	1
Tetrachloroethene	1.2	J	1.4	0.27	ug/m3			03/20/14 05:26	1
Tetrahydrofuran	ND		2.9	0.19	ug/m3			03/20/14 05:26	1
Thiophene	ND		0.69	0.69	ug/m3			03/20/14 05:26	1
Toluene	1.7		0.75	0.45	ug/m3			03/20/14 05:26	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			03/20/14 05:26	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			03/20/14 05:26	1
Trichloroethene	ND		1.1	0.19	ug/m3			03/20/14 05:26	1
Trichlorofluoromethane	1.1		1.1	0.13	ug/m3			03/20/14 05:26	1
Vinyl chloride	ND		0.51	0.18	ug/m3			03/20/14 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/20/14 05:26	1

Appendix C

Support Documentation

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1063-1	IA4-E14	Air	03/13/14 17:12	03/17/14 11:15
140-1063-2	IA5-E14	Air	03/13/14 16:40	03/17/14 11:15
140-1063-3	IA6-E14	Air	03/13/14 16:45	03/17/14 11:15
140-1063-4	IA7-E14	Air	03/13/14 15:52	03/17/14 11:15
140-1063-5	AMB-2	Air	03/13/14 16:48	03/17/14 11:15
140-1063-6	AMB-4	Air	03/13/14 16:49	03/17/14 11:15
140-1063-8	PCV-IA2-B7	Air	03/12/14 16:00	03/17/14 11:15
140-1063-9	PCV-IA3-B7	Air	03/12/14 16:10	03/17/14 11:15
140-1063-10	PCV-IA1-B11	Air	03/12/14 16:34	03/17/14 11:15
140-1063-11	PCV-IA2-B11	Air	03/12/14 16:32	03/17/14 11:15
140-1063-12	PCV-IA3-B11	Air	03/12/14 16:30	03/17/14 11:15
140-1063-13	IA1-E14	Air	03/13/14 16:04	03/17/14 11:15
140-1063-14	IA2-E14	Air	03/13/14 16:53	03/17/14 11:15
140-1063-15	IA3-E14	Air	03/13/14 16:52	03/17/14 11:15
140-1063-16	PCV-IA1-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-17	PCV-IA2-B5	Air	03/12/14 15:56	03/17/14 11:15
140-1063-18	PCV-IAPC-B5	Air	03/12/14 15:59	03/17/14 11:15
140-1063-19	AMB-1	Air	03/13/14 16:25	03/17/14 11:15
140-1063-20	AMB-3	Air	03/13/14 17:06	03/17/14 11:15
140-1063-21	IA1-E19	Air	03/13/14 16:18	03/17/14 11:15
140-1063-22	IA2-E19	Air	03/13/14 17:05	03/17/14 11:15
140-1063-23	IA1-E17	Air	03/13/14 15:17	03/17/14 11:15
140-1063-24	IA1FD-E17	Air	03/13/14 16:45	03/17/14 11:15
140-1063-25	IA2-E17	Air	03/13/14 16:10	03/17/14 11:15

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Canister Samples Chain of Custody Record

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THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection, and shipment of these samples.


Client Contact Information		Project Manager: Jennifer Pfeiffer		Sampled By: Sara Meissner		1 of 6 COCs	
Company:	AELOM	Phone:	516-581-7313				
Address:	125 Broad Street	Site Contact:	Jessica Ehlen				
City/State/Zip:	New York, NY 10004	TAL Contact:	Samie McKinney				
Phone:	212-377-8400						
FAX:	212-377-8410						
Project Name:	Stuy Town 1A						
Site/location:	Stuy Town, NYC						
PO #							

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + Cond Imp List		EPA 20C	EPA 30C	TO-14A	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
								Standard (Specify)	Rush (Specify)											
1A4 - E14	3/13/14	1020	1712	-30	-2	10062	09683	X								X				71°
1A5 - E14	3/13/14	0858	1640	-30	-5	10297	10010	X								X				71°
1A6 - E14	3/13/14	0856	1645	-30	-4	10359	10188	X								X				71°
1A7 - E14	3/13/14	0850	1552	-30	-4	10792	09513	X								X				71°
Amb - 2	3/13/14	0910	1648	-30	-5	10666	09514	X								X				25°
Amb - 4	3/13/14	0915	1649	-30	-5	09914	10401	X								X				25°

Sampled by:		Temperature (Fahrenheit)	
Sara Meissner	Interior	71° F	Ambient
	Stop	72° F	32° F

Sampled by:		Pressure (inches of Hg)	
Sara Meissner	Interior	29.48"	Ambient
	Stop	29.74"	

NO CUSTODY SEALS RECEIVED AT AMBIENT TRAP
BIRD 3-17-14
SAMPLE FIELD NUMBER 7982 0138 4003
25 CANS / 25 FLOWS / 9 C.C.



140-1063 Chain of Custody

Special Instructions/QC Requirements & Comments:	

Canisters Shipped by:		Date/Time:	
Sara Meissner			
Samples Relinquished by:		3/13/14 1721	
Relinquished by: B. Sommer		03-14-14 14:00	

Canisters Received by:		Date/Time:	
Received by:			
Received by: Sara Meissner		3-17-14 11:15	

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Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: Jennifer Pfeiffer		Sampled By: Kristen Barbour		2 of 2 JE COCs			
Company:	ABCOR	Phone:	516-581-7313	EPA 26C		ASTM D-1946			
Address:	125 Broad Street	Site Contact:	Jessica Ehlen	EPA 3C		Other (Please specify in notes section)			
City/State/Zip:	New York, NY 10007	TAL Contact:	Jamie McKinney	TO-14A		Landfill Gas			
Phone:	212-377-8400			TO-15 + Con Ed Mgr Ltd		Soil Gas			
FAX:	212-377-8410					Ambient Air			
Project Name:	Peter Cooper Village I/A					Indoor Air			
Site/Location:	Peter Cooper Village, NYC					Other (Please specify in notes section)			
PO #						Other (Please specify in notes section)			
Sample Identification		Sample Dates(s)	Time Start	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	Temperature (Fahrenheit)
PCV - IA1 - B7		3/12/14	0855	1617	-30+	-19	09860	10207	63°F
PCV - IA2 - B7		3/12/14	0848	1600	-30	-6	10784	10187	68°F
PCV - IA3 - B7		3/12/14	0853	1610	-30	-5	09718	10513	61°F
PCV - IA1 - B11		3/12/14	0833	1634	-30	-4	10861	09761	68°F
PCV - IA2 - B11		3/12/14	0833	1632	-28.5	-4	10595	10327	65°F
PCV - IA3 - B11		3/12/14	0836	1630	-30	-10	00660	09509	66°F
Sampled by: Kristen Barbour									
Kristen Barbour									
Kristen Barbour									
Special Instructions/CC Requirements & Comments: Other = temp in sample room.									
* Hold sample PCV-IA1-B7 waiter for further instruction									
Canisters Shipped by:		Date/Time:		Canisters Received by:					
Samples Relinquished by: Jessica Ehlen		Date/Time: 3/13/14 17:22		Received by:					
Relinquished by: B. Samuil		Date/Time: 03-14-14 - 14:00		Received by: [Signature]		3-17-14 11:15			

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Canister Samples Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Jennifer Pfeiffer		Sampled By: Kristen Barbour		3 of 6 COCs	
Company: AECOM		Phone: 516-581-7313		EPA 26C		ASTM D-1946	
Address: 125 Broad Street		Site Contact: Jessica Ehlen		EPA 3C		Other (Please specify in notes section)	
City/State/Zip: New York NY 10004		TAL Contact: Jamie McKinney		TO-14A		Soil Gas	
Phone: 212-377-8400				TO-18 + MGR List Cont Ed		Ambient Air	
FAX: 212-377-8410						Indoor Air	
Project Name: 4111 1st Ave, NYC		Analysis Turnaround Time				Sample Type	
Site/Location: 4111 1st Ave, NYC		Standard (Specify) Standard				Other (Please specify in notes section)	
PO #		Rush (Specify)				Other (Please specify in notes section)	
Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-18 + MGR List Cont Ed
3/13/14	9:36	16:09	-30	-10	80660	10367	X
	9:32	16:53	-30	-5	10333	09916	X
	10:29	16:52	-28	-10	10010	10885	X
Sampled by:							
Kristen Barbour							
Kristen Barbour							
Special Instructions/QC Requirements & Comments:							
Canisters Shipped by:							
B. Somma							
Samples Relinquished by:							
3/13/14 17:27							
Relinquished by:							
B. Somma							
Date/Time: 03-14-14 14:00							
Canisters Received by:							
Received by:							
3-17-14 11:15							

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Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.



THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information			Project Manager: Jennifer Pfeiffer				Sampled By: J. Christoffel		4 of 6 COCs										
Company: AECOM			Phone: 212-377-8706																
Address: 125 Broad Street			Site Contact: Jessica Ehlen																
City/State/Zip: New York, NY			TAL Contact: Jamie McKinney																
Phone: 212-377-8706																			
FAX: 212-377-8410																			
Project Name: Peter Cooper Village, NYC			Analysis Turnaround Time																
Site/Location: Peter Cooper Village, NYC			Standard (Specify)																
PO #			Rush (Specify)																
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + COC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)						
													Indoor Air	Ambient Air	Soil Gas	Landfill Gas			
PCV-IAZ-BS	3-12-14	8:36	15:51	-30	-5	10632	10992	X											
PCV-IAZ-BS	L	8:41	15:56	-29	-4	9700	10718	X											
PCV-IAZ-BS	L	8:27	15:59	-30	-5	09947	10119	X											
Sampled by:													Temperature (Fahrenheit)						
Jennifer Christoffel													Ambient						
													470°F						
Jennifer Christoffel													Interior						
													50°F						
													Pressure (Inches of Hg)						
													Ambient						
													29.57						
													29.21						
Special Instructions/QC Requirements & Comments:													Temperature @ sample location						
													PCV-IAZ-BS - 69°F						
													PCV-IAZ-BS - 70°F						
													PCV-IAZ-BS - 70°F						
Canisters Shipped by:		Date/Time:		Canisters Received by:		Date/Time:		Samples Relinquished by:		Date/Time:		Relinquished by:		Date/Time:					
Jennifer Christoffel		3-13-14 17:22		Jennifer Christoffel		3-13-14 17:22		B. Sommer		3-14-14 17:00		Jennifer Christoffel		3-17-14 11:15					

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Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.



THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: Jennifer Pfeiffer		Sampled By: Jennifer Christoffel		S of 6 COCs													
Company: AECOM	Phone: 516-581-7313	Site Contact: Jessica Ehlen																	
Address: 125 Broad Street	TAL Contact: Jamie McKianey																		
City/State/Zip: New York, NY 10009																			
Phone: 212-333-8400																			
FAX: 212-333-8410																			
Project Name: Stuyvesant Town in																			
Site/Location: Stuyvesant Town, NYC																			
PO #																			
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 Cont'd Mgr List	TO-14A	EPA 3C	EPA 26C	ASTM D-1948	Other (Please specify in notes section)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	
														X	X			32 °F	
AMB-1	3/13/14	09:37	16:25	-29	-6	10360	10512	X						X				32 °F	
AMB-3	3/13/14	09:35	17:06	-30	-6	09913	09607	X						X				32 °F	
IA1-E19	3/13/14	09:21	16:18	-29	-5	10668	10103	X						X				65 °F	
IA2-E19	3/13/14	09:25	16:18	-30	-8	10622	09672	X						X				65 °F	
IA1-E17	3/13/14	08:48	15:17	-30	-5	4205	10120	X						X				73 °F	
IA1FD-E17	3/13/14	09:40	16:45	-30	-8	09555	10276	X						X				73 °F	
Sampled by: J. Christoffel																			
J. Christoffel																			
Special Instructions/QC Requirements & Comments:		other = Room temp of canisters / outdoor temp of canisters (for ambient)																	
Canisters Shipped by:		Date/Time: 3/13/14 17:11																	
Samples Relinquished by:		Date/Time: 03-14-14 - 14:00																	
Relinquished by:		Received by: 3-17-14 11:15																	

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 phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: ATECOM Address: 125 Broad Street City/State/Zip: New York, NY 10004 Phone: 212-377-8400 FAX: 212-377-8410 Project Name: Stuyvesant High IA Site/location: Stuyvesant Town, NYC PO #		Project Manager: Jennifer Pfeifer Phone: 516-581-7313 Site Contact: Jessica Ehlen TAL Contact: Jamie McKinney		Sampled By: J. Christoffel b of 6 COCs	
Sample Identification IAA-E17		Sample Date(s): 3/13/14	Time Start: 0851 Time Stop: 1618	Canister Vacuum in Field, "Hg (Start): -29 Canister Vacuum in Field, "Hg (Stop): -5	Flow Controller ID: 10659 Canister ID: 10038
Rush (Specify)		Analysis Turnaround Time Standard (Specify) Standard		TO-15 + Cond mgt list	
Other (Please specify in notes section)		Other (Please specify in notes section)		Other (Please specify in notes section)	
Landfill Gas		Soil Gas		Ambient Air	
Indoor Air		Ambient Air		Indoor Air	
EPA 25C		EPA 3C		TO-14A	
EPA 26C		EPA 3C		TO-15 + Cond mgt list	
A9TM D-1946		Other (Please specify in notes section)		Other (Please specify in notes section)	
Temperature (Fahrenheit)		Interior Ambient: 21.0 F Stop: 32.0 F		Pressure (Inches of Hg)	
Interior Ambient: 21.0 F		Interior Ambient: 29.48		Interior Ambient: 29.74	
Start: 21.0 F		Start: 29.48		Start: 29.74	
Stop: 32.0 F		Stop: 29.48		Stop: 29.74	
Sampled by: J. Christoffel		Date/Time: 03-14-14 14:00		Date/Time: 03-14-14 17:17	
Special Instructions/QC Requirements & Comments: Other = Temp of room canister was sampled in.		Date/Time: 03-14-14 14:00		Date/Time: 03-14-14 17:17	
Canisters Shipped by: J. Christoffel		Date/Time: 03-14-14 14:00		Date/Time: 03-14-14 17:17	
Samples Relinquished by: J. Christoffel		Date/Time: 03-14-14 14:00		Date/Time: 03-14-14 17:17	
Relinquished by: B. Sommi		Date/Time: 03-14-14 14:00		Date/Time: 03-17-14 11:15	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1063-1

Login Number: 1063

List Source: TestAmerica Knoxville

List Number: 1

Creator: Dameron, Bryan K

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	CHECKED IN LAB
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Job Narrative
140-1063-1

Comments

No additional comments.

Receipt

The samples were received on 3/17/2014 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 971 exhibited % difference of > 30% for the following analyte(s) acetone, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in most of the samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL, TO-15: Can Certification Comments:

Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No other analytical or quality issues were noted.

QC Association Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Air - GC/MS VOA

Analysis Batch: 971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-2	IA5-E14	Total/NA	Air	TO-15	
140-1063-3	IA6-E14	Total/NA	Air	TO-15	
140-1063-4	IA7-E14	Total/NA	Air	TO-15	
140-1063-5	AMB-2	Total/NA	Air	TO-15	
140-1063-6	AMB-4	Total/NA	Air	TO-15	
140-1063-8	PCV-IA2-B7	Total/NA	Air	TO-15	
140-1063-9	PCV-IA3-B7	Total/NA	Air	TO-15	
140-1063-10	PCV-IA1-B11	Total/NA	Air	TO-15	
140-1063-11	PCV-IA2-B11	Total/NA	Air	TO-15	
140-1063-12	PCV-IA3-B11	Total/NA	Air	TO-15	
140-1063-13	IA1-E14	Total/NA	Air	TO-15	
140-1063-14	IA2-E14	Total/NA	Air	TO-15	
140-1063-15	IA3-E14	Total/NA	Air	TO-15	
140-1063-16	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-17	PCV-IA2-B5	Total/NA	Air	TO-15	
LCS 140-971/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-971/9	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-1	IA4-E14	Total/NA	Air	TO-15	
140-1063-16 - DL	PCV-IA1-B5	Total/NA	Air	TO-15	
140-1063-19	AMB-1	Total/NA	Air	TO-15	
140-1063-20	AMB-3	Total/NA	Air	TO-15	
140-1063-21	IA1-E19	Total/NA	Air	TO-15	
140-1063-22	IA2-E19	Total/NA	Air	TO-15	
140-1063-23	IA1-E17	Total/NA	Air	TO-15	
140-1063-24	IA1FD-E17	Total/NA	Air	TO-15	
140-1063-25	IA2-E17	Total/NA	Air	TO-15	
LCS 140-976/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-976/1004	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-18	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-984/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-984/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1063-17 - DL	PCV-IA2-B5	Total/NA	Air	TO-15	
140-1063-18 - DL	PCV-IAPC-B5	Total/NA	Air	TO-15	
LCS 140-990/1002	Lab Control Sample	Total/NA	Air	TO-15	
MB 140-990/1005	Method Blank	Total/NA	Air	TO-15	

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1 Analyt Batch No.: 946

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF						CURVE TYPE			COEFFICIENT			#	MIN RRF	%RSD	#	R ² OR COD	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	B	M1	M2													
2-Methylbutane	++++ 1.5962	++++ 1.5455	2.0881 1.7015	1.6610 1.4088	1.5999				Ave			1.6989			13.0			30.0			
Trichlorofluoromethane	3.4010	3.4970	3.9742	3.3853	3.3401				Ave			3.4807			6.7			30.0			
Acrolein	++++ 0.3021	0.4128	0.3655	0.2328	0.3081				Ave			0.3266			18.0			30.0			
Acetonitrile	++++ 0.3368	0.4098	0.4320	0.3296	0.3366				Ave			0.3607			12.0			30.0			
Acetone	++++ 0.5780	++++	++++	0.7210	0.8316				Ave			0.5686			38.0 *			30.0			
Isopropyl alcohol	++++ 1.4403	++++	1.7112	1.5277	1.4569				Ave			1.5014			7.8			30.0			
Pentane	++++ 0.2110	0.1929	0.2420	0.2107	0.2100				Ave			0.2152			7.7			30.0			
Ethyl ether	++++ 1.0219	1.2193	1.2370	0.8503	1.0780				Ave			1.0466			13.0			30.0			
1,1-Dichloroethene	1.2472	1.1312	1.2574	1.0484	1.0359				Ave			1.1230			7.9			30.0			
tert-Butyl alcohol	++++ 1.5527	2.1474	2.1170	1.9306	1.7618				Ave			1.8495			12.0			30.0			
Acrylonitrile	0.6837	0.6036	0.6491	0.4430	0.5680				Ave			0.5945			13.0			30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110	2.4189	2.7256	2.3179	2.2929				Ave			2.4119			6.2			30.0			
Methylene Chloride	2.3296	2.3382	2.5850	2.2877					Ave			1.0701			14.0			30.0			
3-Chloropropene	1.0284	1.0127	1.0525	0.9311					Ave			1.1131			17.0			30.0			
Carbon disulfide	1.0457	1.0202	1.0428	0.8935					Ave			3.7629			7.3			30.0			
trans-1,2-Dichloroethene	3.6559	3.6157	4.0136	3.4128					Ave			1.3526			9.5			30.0			
2-Methylpentane	1.5956	1.4088	1.5141	1.2666	1.2555				Ave			3.0866			12.0			40.0			
Methyl tert-butyl ether	2.9748	2.8931	3.0116	2.4248					Ave			2.0415			9.8			30.0			
1,1-Dichloroethane	2.0306	1.9367	2.1576	1.8416					Ave			2.1108			11.0			30.0			
Vinyl acetate	2.0618	2.0212	1.9936	1.7914					Ave			1.8493			12.0			30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4096		1.99	2.00	-0.8	30.0
Propene	Ave	1.227	1.166		1.90	2.00	-5.0	30.0
Dichlorodifluoromethane	Ave	3.962	4.068		2.05	2.00	2.7	30.0
Chloromethane	Ave	0.4501	0.4425		1.97	2.00	-1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.180		2.13	2.00	6.4	30.0
Acetaldehyde	Ave	0.3947	0.3107		7.88	10.0	-21.3	50.0
Vinyl chloride	Ave	1.483	1.475		1.99	2.00	-0.5	30.0
1,3-Butadiene	Ave	1.030	1.055		2.05	2.00	2.3	30.0
Butane	Ave	2.110	2.032		1.93	2.00	-3.7	30.0
Bromomethane	Ave	1.508	1.445		1.92	2.00	-4.2	30.0
Chloroethane	Ave	0.6822	0.6592		1.93	2.00	-3.4	30.0
Ethanol	Ave	0.3211	0.3171		9.88	10.0	-1.3	50.0
Vinyl bromide	Ave	1.283	1.347		2.10	2.00	5.0	30.0
2-Methylbutane	Ave	1.699	1.623		1.91	2.00	-4.4	30.0
Acrolein	Ave	0.3266	0.2486		1.52	2.00	-23.9	30.0
Trichlorofluoromethane	Ave	3.481	3.524		2.03	2.00	1.2	30.0
Acetonitrile	Ave	0.3607	0.3322		1.84	2.00	-7.9	30.0
Acetone	Ave	0.5686	0.3576		1.26	2.00	-37.1*	30.0
Isopropyl alcohol	Ave	1.501	1.417		1.89	2.00	-5.6	30.0
Pentane	Ave	0.2152	0.2125		1.98	2.00	-1.3	30.0
Ethyl ether	Ave	1.047	0.9689		1.85	2.00	-7.4	30.0
1,1-Dichloroethene	Ave	1.123	1.284		2.29	2.00	14.3	30.0
tert-Butyl alcohol	Ave	1.849	1.568		1.70	2.00	-15.2	30.0
Acrylonitrile	Ave	0.5945	0.5642		1.90	2.00	-5.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.701		2.24	2.00	12.0	30.0
Methylene Chloride	Ave	1.070	1.131		2.12	2.00	5.7	30.0
3-Chloropropene	Ave	1.113	0.9759		1.75	2.00	-12.3	30.0
Carbon disulfide	Ave	3.763	3.773		2.01	2.00	0.3	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.270		1.88	2.00	-6.1	30.0
2-Methylpentane	Ave	3.087	2.877		1.86	2.00	-6.8	50.0
Methyl tert-butyl ether	Ave	2.042	2.128		2.09	2.00	4.3	30.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	30.0
Vinyl acetate	Ave	1.849	1.805		1.95	2.00	-2.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.3716		1.96	2.00	-1.9	30.0
Hexane	Ave	1.075	0.9554		1.78	2.00	-11.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.199		2.08	2.00	3.9	30.0
Ethyl acetate	Ave	1.649	1.701		2.06	2.00	3.2	30.0
Chloroform	Ave	2.331	2.352		2.02	2.00	0.9	30.0
Tetrahydrofuran	Ave	0.9265	0.9302		2.01	2.00	0.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.419		1.99	2.00	-0.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-971/2 Calibration Date: 03/18/2014 10:16
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3373		2.18	2.00	8.7	30.0
1-Butanol	Ave	0.0874	0.0801		1.83	2.00	-8.4	30.0
Benzene	Ave	0.6863	0.7145		2.08	2.00	4.1	30.0
Cyclohexane	Ave	0.1354	0.1398		2.07	2.00	3.2	30.0
Carbon tetrachloride	Ave	0.5669	0.6030		2.13	2.00	6.4	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1639		2.03	2.00	1.2	50.0
Thiophene	Ave	0.4238	0.4505		2.13	2.00	6.3	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.219		2.08	2.00	4.0	30.0
Heptane	Ave	0.2427	0.2556		2.11	2.00	5.3	30.0
1,2-Dichloropropane	Ave	0.2320	0.2309		1.99	2.00	-0.5	30.0
Trichloroethene	Ave	0.3329	0.3567		2.14	2.00	7.1	30.0
Dibromomethane	Ave	0.3053	0.3130		2.05	2.00	2.5	30.0
Bromodichloromethane	Ave	0.4844	0.5274		2.18	2.00	8.9	30.0
1,4-Dioxane	Ave	0.0831	0.0820		1.97	2.00	-1.4	30.0
Methyl methacrylate	Ave	0.2081	0.2272		2.18	2.00	9.2	30.0
Methylcyclohexane	Ave	0.4620	0.4706		2.04	2.00	1.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.4224		2.02	2.00	0.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3260		1.98	2.00	-0.9	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3518		2.12	2.00	6.1	30.0
Toluene	Ave	0.7420	0.8026		2.16	2.00	8.2	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2444		2.08	2.00	3.9	30.0
2-Methylthiophene	Ave	0.6668	0.6902		2.07	2.00	3.5	50.0
3-Methylthiophene	Ave	0.6690	0.7078		2.12	2.00	5.8	50.0
2-Hexanone	Ave	0.2430	0.2555		2.10	2.00	5.1	30.0
Octane	Ave	0.2723	0.3022		2.22	2.00	11.0	30.0
Dibromochloromethane	Ave	0.5191	0.5710		2.20	2.00	10.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4195		2.08	2.00	4.1	30.0
Tetrachloroethene	Ave	0.3457	0.3752		2.17	2.00	8.5	30.0
Chlorobenzene	Ave	0.6339	0.6444		2.03	2.00	1.7	30.0
2,3-Dimethylheptane	Ave	0.8171	0.9112		2.23	2.00	11.5	50.0
Ethylbenzene	Ave	0.8196	0.9078		2.22	2.00	10.8	30.0
2-Ethylthiophene	Ave	0.6423	0.6947		2.16	2.00	8.1	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.7072		4.28	4.00	6.9	30.0
Nonane	Ave	0.5146	0.5263		2.05	2.00	2.3	30.0
Bromoform	Ave	0.4101	0.4236		2.07	2.00	3.3	30.0
Styrene	Ave	0.4542	0.5203		2.29	2.00	14.5	30.0
o-Xylene	Ave	0.6705	0.7349		2.19	2.00	9.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.6044		2.21	2.00	10.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1460		2.22	2.00	11.2	30.0
Isopropylbenzene	Ave	0.9553	1.027		2.15	2.00	7.5	30.0
Propylbenzene	Ave	0.2519	0.2776		2.20	2.00	10.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
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 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC18.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2723		2.07	2.00	3.6	30.0
4-Ethyltoluene	Ave	0.8909	1.000		2.25	2.00	12.2	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.4917		2.20	2.00	9.8	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3674		2.29	2.00	14.5	30.0
Decane	Ave	0.5485	0.5689		2.08	2.00	3.7	30.0
tert-Butylbenzene	Ave	0.8748	0.9355		2.14	2.00	6.9	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.8556		2.20	2.00	10.1	30.0
sec-Butylbenzene	Ave	1.140	1.248		2.19	2.00	9.5	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.4974		1.95	2.00	-2.6	30.0
Benzyl chloride	Ave	0.5802	0.6061		2.09	2.00	4.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4594		1.93	2.00	-3.3	30.0
4-Isopropyltoluene	Ave	0.9141	0.997		2.18	2.00	9.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.7128		2.25	2.00	12.6	50.0
Butylcyclohexane	Ave	0.7225	0.7375		2.04	2.00	2.1	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.4908		1.97	2.00	-1.7	30.0
Indane	Ave	0.7098	0.7806		2.20	2.00	10.0	50.0
Butylbenzene	Ave	0.8482	0.8771		2.07	2.00	3.4	30.0
Indene	Ave	0.6202	0.7073		2.28	2.00	14.0	50.0
Undecane	Ave	0.5525	0.5700		2.06	2.00	3.2	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.8829		2.06	2.00	3.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.9328		2.17	2.00	8.3	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.5726		2.04	2.00	1.9	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7364		2.12	2.00	5.8	50.0
Dodecane	Ave	0.5721	0.5612		1.96	2.00	-1.9	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2136		1.92	2.00	-3.9	30.0
Naphthalene	Ave	0.6294	0.6073		1.93	2.00	-3.5	30.0
Benzo (b) thiophene	Ave	0.4265	0.3982		1.87	2.00	-6.6	50.0
Hexachlorobutadiene	Ave	0.4540	0.3874		1.71	2.00	-14.7	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2689		1.87	2.00	-6.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0422		7.89	12.5	-36.9	50.0
1-Methylnaphthalene	Ave	0.0690	0.0448		8.12	12.5	-35.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7019		3.97	4.00	-0.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville

Job No.: 140-1063-1

SDG No.: _____

Lab Sample ID: CCVIS 140-984/2

Calibration Date: 03/21/2014 11:30

Instrument ID: MJ

Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32 (mm)

Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D

Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo(b)thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002

Matrix: Air

Analysis Batch: 971

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.21		ppb v/v		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,1-Dichloroethane	2.00	1.99		ppb v/v		100	70 - 130
1,1-Dichloroethene	2.00	2.29		ppb v/v		114	70 - 130
1,2,4-Trichlorobenzene	2.00	1.92		ppb v/v		96	60 - 140
1,2,4-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.13		ppb v/v		106	60 - 140
1,2-Dichlorobenzene	2.00	1.97		ppb v/v		98	70 - 130
1,2-Dichloroethane	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dichloropropane	2.00	1.99		ppb v/v		100	70 - 130
1,3,5-Trimethylbenzene	2.00	2.20		ppb v/v		110	70 - 130
1,3-Butadiene	2.00	2.05		ppb v/v		102	60 - 140
1,3-Dichlorobenzene	2.00	1.95		ppb v/v		97	70 - 130
1,4-Dichlorobenzene	2.00	1.93		ppb v/v		97	70 - 130
1,4-Dioxane	2.00	1.97		ppb v/v		99	60 - 140
2,2,4-Trimethylpentane	2.00	2.08		ppb v/v		104	70 - 130
2,3-Dimethylpentane	2.00	2.03		ppb v/v		101	20 - 180
2-Butanone (MEK)	2.00	1.96		ppb v/v		98	60 - 140
2-Hexanone	2.00	2.10		ppb v/v		105	60 - 140
2-Methylbutane	2.00	1.91		ppb v/v		96	70 - 130
2-Methylpentane	2.00	1.86		ppb v/v		93	20 - 180
4-Ethyltoluene	2.00	2.25		ppb v/v		112	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	2.02		ppb v/v		101	60 - 140
Acetone	2.00	1.26	J	ppb v/v		63	60 - 140
Benzene	2.00	2.08		ppb v/v		104	70 - 130
Benzyl chloride	2.00	2.09		ppb v/v		104	70 - 130
Bromodichloromethane	2.00	2.18		ppb v/v		109	70 - 130
Bromoform	2.00	2.07		ppb v/v		103	60 - 140
Bromomethane	2.00	1.92		ppb v/v		96	70 - 130
Carbon disulfide	2.00	2.01		ppb v/v		100	70 - 130
Carbon tetrachloride	2.00	2.13		ppb v/v		106	70 - 130
Chlorobenzene	2.00	2.03		ppb v/v		102	70 - 130
Chloroethane	2.00	1.93		ppb v/v		97	70 - 130
Chloroform	2.00	2.02		ppb v/v		101	70 - 130
Chloromethane	2.00	1.97		ppb v/v		98	60 - 140
cis-1,2-Dichloroethene	2.00	2.08		ppb v/v		104	70 - 130
cis-1,3-Dichloropropene	2.00	1.98		ppb v/v		99	70 - 130
Cyclohexane	2.00	2.07		ppb v/v		103	70 - 130
Dibromochloromethane	2.00	2.20		ppb v/v		110	70 - 130
Dichlorodifluoromethane	2.00	2.05		ppb v/v		103	60 - 140
Ethanol	10.0	9.88		ppb v/v		99	20 - 180
Ethylbenzene	2.00	2.22		ppb v/v		111	70 - 130
Heptane	2.00	2.11		ppb v/v		105	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 971

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Hexachlorobutadiene	2.00	1.71		ppb v/v		85	60 - 140
Hexane	2.00	1.78		ppb v/v		89	70 - 130
Indane	2.00	2.20		ppb v/v		110	20 - 180
Indene	2.00	2.28		ppb v/v		114	20 - 180
isopropyl alcohol	2.00	1.89		ppb v/v		94	60 - 140
Methyl tert-butyl ether	2.00	2.09		ppb v/v		104	60 - 140
Methylene Chloride	2.00	2.12		ppb v/v		106	70 - 130
m-Xylene & p-Xylene	4.00	4.28		ppb v/v		107	70 - 130
Naphthalene	2.00	1.93		ppb v/v		96	40 - 140
o-Xylene	2.00	2.19		ppb v/v		110	70 - 130
Propene	2.00	1.90		ppb v/v		95	60 - 140
Styrene	2.00	2.29		ppb v/v		115	70 - 130
Tetrachloroethene	2.00	2.17		ppb v/v		109	70 - 130
Tetrahydrofuran	2.00	2.01		ppb v/v		100	60 - 140
Thiophene	2.00	2.13		ppb v/v		106	20 - 180
Toluene	2.00	2.16		ppb v/v		108	70 - 130
trans-1,2-Dichloroethene	2.00	1.88		ppb v/v		94	70 - 130
trans-1,3-Dichloropropene	2.00	2.12		ppb v/v		106	70 - 130
Trichloroethene	2.00	2.14		ppb v/v		107	70 - 130
Trichlorofluoromethane	2.00	2.03		ppb v/v		101	60 - 140
Vinyl chloride	2.00	1.99		ppb v/v		99	70 - 130
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,1,1-Trichloroethane	11	10.9		ug/m3		100	70 - 130
1,1,1,2-Tetrachloroethane	14	15.2		ug/m3		110	70 - 130
1,1,1,2-Trichloro-1,1,2,2-trifluoroethane	15	17.2		ug/m3		112	70 - 130
1,1,2-Trichloroethane	11	11.3		ug/m3		104	70 - 130
1,1-Dichloroethane	8.1	8.07		ug/m3		100	70 - 130
1,1-Dichloroethene	7.9	9.07		ug/m3		114	70 - 130
1,2,4-Trichlorobenzene	15	14.3		ug/m3		96	60 - 140
1,2,4-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,2-Dibromoethane (EDB)	15	16.0		ug/m3		104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	14.9		ug/m3		106	60 - 140
1,2-Dichlorobenzene	12	11.8		ug/m3		98	70 - 130
1,2-Dichloroethane	8.1	8.80		ug/m3		109	70 - 130
1,2-Dichloropropane	9.2	9.20		ug/m3		100	70 - 130
1,3,5-Trimethylbenzene	9.8	10.8		ug/m3		110	70 - 130
1,3-Butadiene	4.4	4.53		ug/m3		102	60 - 140
1,3-Dichlorobenzene	12	11.7		ug/m3		97	70 - 130
1,4-Dichlorobenzene	12	11.6		ug/m3		97	70 - 130
1,4-Dioxane	7.2	7.11		ug/m3		99	60 - 140
2,2,4-Trimethylpentane	9.3	9.72		ug/m3		104	70 - 130
2,3-Dimethylpentane	8.2	8.30		ug/m3		101	20 - 180
2-Butanone (MEK)	5.9	5.79		ug/m3		98	60 - 140
2-Hexanone	8.2	8.62		ug/m3		105	60 - 140
2-Methylbutane	5.9	5.64		ug/m3		96	70 - 130
2-Methylpentane	7.1	6.57		ug/m3		93	20 - 180

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-971/1002

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	11.0		ug/m3		112	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	8.26		ug/m3		101	60 - 140
Acetone	4.8	2.99	J	ug/m3		63	60 - 140
Benzene	6.4	6.65		ug/m3		104	70 - 130
Benzyl chloride	10	10.8		ug/m3		104	70 - 130
Bromodichloromethane	13	14.6		ug/m3		109	70 - 130
Bromoform	21	21.4		ug/m3		103	60 - 140
Bromomethane	7.8	7.45		ug/m3		96	70 - 130
Carbon disulfide	6.2	6.25		ug/m3		100	70 - 130
Carbon tetrachloride	13	13.4		ug/m3		106	70 - 130
Chlorobenzene	9.2	9.37		ug/m3		102	70 - 130
Chloroethane	5.3	5.10		ug/m3		97	70 - 130
Chloroform	9.8	9.86		ug/m3		101	70 - 130
Chloromethane	4.1	4.06		ug/m3		98	60 - 140
cis-1,2-Dichloroethene	7.9	8.24		ug/m3		104	70 - 130
cis-1,3-Dichloropropene	9.1	9.00		ug/m3		99	70 - 130
Cyclohexane	6.9	7.11		ug/m3		103	70 - 130
Dibromochloromethane	17	18.8		ug/m3		110	70 - 130
Dichlorodifluoromethane	9.9	10.2		ug/m3		103	60 - 140
Ethanol	19	18.6		ug/m3		99	20 - 180
Ethylbenzene	8.7	9.62		ug/m3		111	70 - 130
Heptane	8.2	8.64		ug/m3		105	70 - 130
Hexachlorobutadiene	21	18.2		ug/m3		85	60 - 140
Hexane	7.1	6.27		ug/m3		89	70 - 130
Indane	9.7	10.6		ug/m3		110	20 - 180
Indene	9.5	10.8		ug/m3		114	20 - 180
Isopropyl alcohol	4.9	4.64		ug/m3		94	60 - 140
Methyl tert-butyl ether	7.2	7.52		ug/m3		104	60 - 140
Methylene Chloride	7.0	7.35		ug/m3		106	70 - 130
m-Xylene & p-Xylene	17	18.6		ug/m3		107	70 - 130
Naphthalene	10	10.1		ug/m3		96	40 - 140
o-Xylene	8.7	9.52		ug/m3		110	70 - 130
Propene	3.4	3.27		ug/m3		95	60 - 140
Styrene	8.5	9.76		ug/m3		115	70 - 130
Tetrachloroethene	14	14.7		ug/m3		109	70 - 130
Tetrahydrofuran	5.9	5.93		ug/m3		100	60 - 140
Thiophene	6.9	7.32		ug/m3		106	20 - 180
Toluene	7.5	8.16		ug/m3		108	70 - 130
trans-1,2-Dichloroethene	7.9	7.45		ug/m3		94	70 - 130
trans-1,3-Dichloropropene	9.1	9.64		ug/m3		106	70 - 130
Trichloroethene	11	11.5		ug/m3		107	70 - 130
Trichlorofluoromethane	11	11.4		ug/m3		101	60 - 140
Vinyl chloride	5.1	5.09		ug/m3		99	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		60 - 140

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.82		ppb v/v		91	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.73		ppb v/v		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1,2-Trichloroethane	2.00	1.68		ppb v/v		84	70 - 130
1,1-Dichloroethane	2.00	1.83		ppb v/v		91	70 - 130
1,1-Dichloroethene	2.00	2.30		ppb v/v		115	70 - 130
1,2,4-Trichlorobenzene	2.00	1.52		ppb v/v		76	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane (EDB)	2.00	1.69		ppb v/v		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.18		ppb v/v		109	60 - 140
1,2-Dichlorobenzene	2.00	1.51		ppb v/v		76	70 - 130
1,2-Dichloroethane	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloropropane	2.00	1.66		ppb v/v		83	70 - 130
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		85	70 - 130
1,3-Butadiene	2.00	2.09		ppb v/v		105	60 - 140
1,3-Dichlorobenzene	2.00	1.49		ppb v/v		74	70 - 130
1,4-Dichlorobenzene	2.00	1.47		ppb v/v		73	70 - 130
1,4-Dioxane	2.00	1.58		ppb v/v		79	60 - 140
2,2,4-Trimethylpentane	2.00	1.70		ppb v/v		85	70 - 130
2,3-Dimethylpentane	2.00	1.69		ppb v/v		84	20 - 180
2-Butanone (MEK)	2.00	1.71		ppb v/v		85	60 - 140
2-Hexanone	2.00	1.75		ppb v/v		88	60 - 140
2-Methylbutane	2.00	1.98		ppb v/v		99	70 - 130
2-Methylpentane	2.00	1.89		ppb v/v		95	20 - 180
4-Ethyltoluene	2.00	1.75		ppb v/v		87	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.74		ppb v/v		87	60 - 140
Acetone	2.00	1.05	J *	ppb v/v		53	60 - 140
Benzene	2.00	1.76		ppb v/v		88	70 - 130
Benzyl chloride	2.00	1.59		ppb v/v		80	70 - 130
Bromodichloromethane	2.00	1.73		ppb v/v		86	70 - 130
Bromoform	2.00	1.62		ppb v/v		81	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.05		ppb v/v		102	70 - 130
Carbon tetrachloride	2.00	1.79		ppb v/v		89	70 - 130
Chlorobenzene	2.00	1.64		ppb v/v		82	70 - 130
Chloroethane	2.00	1.98		ppb v/v		99	70 - 130
Chloroform	2.00	1.79		ppb v/v		90	70 - 130
Chloromethane	2.00	2.04		ppb v/v		102	60 - 140
cis-1,2-Dichloroethene	2.00	1.89		ppb v/v		94	70 - 130
cis-1,3-Dichloropropene	2.00	1.65		ppb v/v		83	70 - 130
Cyclohexane	2.00	1.85		ppb v/v		92	70 - 130
Dibromochloromethane	2.00	1.74		ppb v/v		87	70 - 130
Dichlorodifluoromethane	2.00	2.10		ppb v/v		105	60 - 140
Ethanol	10.0	9.32		ppb v/v		93	20 - 180
Ethylbenzene	2.00	1.70		ppb v/v		85	70 - 130
Heptane	2.00	1.69		ppb v/v		84	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.43		ppb v/v		72	60 - 140
Hexane	2.00	1.70		ppb v/v		85	70 - 130
Indane	2.00	1.70		ppb v/v		85	20 - 180
Indene	2.00	1.75		ppb v/v		87	20 - 180
Isopropyl alcohol	2.00	1.81		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	1.83		ppb v/v		91	60 - 140
Methylene Chloride	2.00	2.13		ppb v/v		107	70 - 130
m-Xylene & p-Xylene	4.00	3.28		ppb v/v		82	70 - 130
Naphthalene	2.00	1.50		ppb v/v		75	40 - 140
o-Xylene	2.00	1.67		ppb v/v		83	70 - 130
Propene	2.00	1.93		ppb v/v		97	60 - 140
Styrene	2.00	1.64		ppb v/v		82	70 - 130
Tetrachloroethene	2.00	1.70		ppb v/v		85	70 - 130
Tetrahydrofuran	2.00	1.73		ppb v/v		87	60 - 140
Thiophene	2.00	1.72		ppb v/v		86	20 - 180
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	1.90		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	2.00	1.70		ppb v/v		85	70 - 130
Trichloroethene	2.00	1.78		ppb v/v		89	70 - 130
Trichlorofluoromethane	2.00	2.06		ppb v/v		103	60 - 140
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	9.91		ug/m3		91	70 - 130
1,1,2,2-Tetrachloroethane	14	11.9		ug/m3		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	17.3		ug/m3		113	70 - 130
1,1,2-Trichloroethane	11	9.18		ug/m3		84	70 - 130
1,1-Dichloroethane	8.1	7.40		ug/m3		91	70 - 130
1,1-Dichloroethene	7.9	9.13		ug/m3		115	70 - 130
1,2,4-Trichlorobenzene	15	11.3		ug/m3		76	60 - 140
1,2,4-Trimethylbenzene	9.8	8.45		ug/m3		86	70 - 130
1,2-Dibromoethane (EDB)	15	13.0		ug/m3		85	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	15.3		ug/m3		109	60 - 140
1,2-Dichlorobenzene	12	9.11		ug/m3		76	70 - 130
1,2-Dichloroethane	8.1	7.42		ug/m3		92	70 - 130
1,2-Dichloropropane	9.2	7.69		ug/m3		83	70 - 130
1,3,5-Trimethylbenzene	9.8	8.33		ug/m3		85	70 - 130
1,3-Butadiene	4.4	4.63		ug/m3		105	60 - 140
1,3-Dichlorobenzene	12	8.94		ug/m3		74	70 - 130
1,4-Dichlorobenzene	12	8.83		ug/m3		73	70 - 130
1,4-Dioxane	7.2	5.70		ug/m3		79	60 - 140
2,2,4-Trimethylpentane	9.3	7.93		ug/m3		85	70 - 130
2,3-Dimethylpentane	8.2	6.92		ug/m3		84	20 - 180
2-Butanone (MEK)	5.9	5.03		ug/m3		85	60 - 140
2-Hexanone	8.2	7.18		ug/m3		88	60 - 140
2-Methylbutane	5.9	5.84		ug/m3		99	70 - 130
2-Methylpentane	7.1	6.67		ug/m3		95	20 - 180

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1063-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-984/1002

Matrix: Air

Analysis Batch: 984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Ethyltoluene	9.8	8.58		ug/m3		87	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.11		ug/m3		87	60 - 140
Acetone	4.8	2.50	J *	ug/m3		53	60 - 140
Benzene	6.4	5.61		ug/m3		88	70 - 130
Benzyl chloride	10	8.24		ug/m3		80	70 - 130
Bromodichloromethane	13	11.6		ug/m3		86	70 - 130
Bromoform	21	16.8		ug/m3		81	60 - 140
Bromomethane	7.8	7.71		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.38		ug/m3		102	70 - 130
Carbon tetrachloride	13	11.3		ug/m3		89	70 - 130
Chlorobenzene	9.2	7.53		ug/m3		82	70 - 130
Chloroethane	5.3	5.23		ug/m3		99	70 - 130
Chloroform	9.8	8.75		ug/m3		90	70 - 130
Chloromethane	4.1	4.20		ug/m3		102	60 - 140
cis-1,2-Dichloroethene	7.9	7.50		ug/m3		94	70 - 130
cis-1,3-Dichloropropene	9.1	7.51		ug/m3		83	70 - 130
Cyclohexane	6.9	6.36		ug/m3		92	70 - 130
Dibromochloromethane	17	14.8		ug/m3		87	70 - 130
Dichlorodifluoromethane	9.9	10.4		ug/m3		105	60 - 140
Ethanol	19	17.6		ug/m3		93	20 - 180
Ethylbenzene	8.7	7.39		ug/m3		85	70 - 130
Heptane	8.2	6.91		ug/m3		84	70 - 130
Hexachlorobutadiene	21	15.3		ug/m3		72	60 - 140
Hexane	7.1	5.98		ug/m3		85	70 - 130
Indane	9.7	8.22		ug/m3		85	20 - 180
Indene	9.5	8.29		ug/m3		87	20 - 180
Isopropyl alcohol	4.9	4.46		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	6.58		ug/m3		91	60 - 140
Methylene Chloride	7.0	7.41		ug/m3		107	70 - 130
m-Xylene & p-Xylene	17	14.3		ug/m3		82	70 - 130
Naphthalene	10	7.85		ug/m3		75	40 - 140
o-Xylene	8.7	7.25		ug/m3		83	70 - 130
Propene	3.4	3.33		ug/m3		97	60 - 140
Styrene	8.5	6.97		ug/m3		82	70 - 130
Tetrachloroethene	14	11.5		ug/m3		85	70 - 130
Tetrahydrofuran	5.9	5.11		ug/m3		87	60 - 140
Thiophene	6.9	5.93		ug/m3		86	20 - 180
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	7.54		ug/m3		95	70 - 130
trans-1,3-Dichloropropene	9.1	7.73		ug/m3		85	70 - 130
Trichloroethene	11	9.55		ug/m3		89	70 - 130
Trichlorofluoromethane	11	11.6		ug/m3		103	60 - 140
Vinyl chloride	5.1	5.26		ug/m3		103	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		60 - 140

TestAmerica Knoxville

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1065-1	SAMPLE 2- ROOM # 4	Air	03/15/14 15:45	03/18/14 10:05
140-1065-2	SAMPLE 3- ROOM # 2	Air	03/15/14 15:25	03/18/14 10:05
140-1065-3	SAMPLE 4- AMBIENT	Air	03/15/14 14:57	03/18/14 10:05
140-1065-4	SAMPLE 5- ROOM #11	Air	03/15/14 15:28	03/18/14 10:05

Sample Summary

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1073-1	SAMPLE 1- CRAWLSPACE	Air	03/15/14 15:32	03/19/14 10:15

TAL Knoxville
 5815 Middlebrook Pike
 Knoxville, TN 37921
 phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Jennifer Pfeiffer		Sampled By: Jessvea Ehlen		1 of 1 COCs													
Company: AECOM		Phone: 516-581-7313		EPA 25C		EPA 25C													
Address: 125 Broad Street		Site Contact: Jessica Ehlen		TO-14A		TO-15													
City/State/Zip: New York, NY 10004		TAL Contact: Jamie McKinney		TO-15		TO-15													
Phone: 212-377-8400				TO-15		TO-15													
FAX: 212-377-8410				TO-15		TO-15													
Project Name: Student town IA		Analysis Turnaround Time		TO-15		TO-15													
Site/location: Student town NY		Standard (Specify): Standard		TO-15		TO-15													
PO #		Rush (Specify)		TO-15		TO-15													
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 25C	EPA 25C	ASPM D-1946	Other (Please specify in notes section)	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	
Sample 1 - Crawlspace	3/15/14	0727	1532	-30	-6.5	5175	09610	X						X				73 of	
Sample 2 - Room #4	3/15/14	0820	1545	-30	-7.5	10162	34000286	X						X				72 of	
Sample 3 - Room #2	3/15/14	0722	1525	-29.5	-5	2616	10811	X						X				72 of	
Sample 4 - Ambient	3/15/14	0732	1457	-30	-5	10049	10313	X						X				53 of	
Sample 5 - Room #11	3/15/14	0734	1528	-29	-6.5	11052	10123	X						X				68 of	
Sampled by: J. Ehlen		Temperature (Fahrenheit)		Ambient		Interior		Interior		Interior		Interior		Interior		Interior		Interior	
		48°		57°		48°		57°		48°		57°		48°		57°		48°	
J. Ehlen		Pressure (inches of Hg)		Ambient		Interior		Interior		Interior		Interior		Interior		Interior		Interior	
		29.78		29.79		29.78		29.79		29.78		29.79		29.78		29.79		29.78	
Special Instructions/QC Requirements & Comments:		Received @ ambient		No Custody used		J 6/29/18/H		K 6/29/18/H		Pedex 50		7982 3979 4129		7982 3752 3066		7982 3752 3066		7982 3752 3066	
* other = Temp of room in which samples were collected.		Canisters Shipped by:		Canisters Received by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
J. Ehlen		J. Ehlen		J. Ehlen		J. Ehlen		J. Ehlen		J. Ehlen		J. Ehlen		J. Ehlen		J. Ehlen		J. Ehlen	
8 cans		9 flows		23 cc															

Batch ID # 997 Cleaning/Certified Date 3-12-14
Can # 09610 Vacuum of Canister -28.4 Analyst H-T
Sample ID # Sample 1 - Canispace
Project # 60315649 Method TO15 + Mer List
Date 3/15/14 Time 0727
Pressure of can -30 + Sampler JE
Grab Timed hr Flow Control # 5175

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Knoxville, Tennessee 37921
865-291-3000

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865-291-3000

Batch ID # 995
Can # 1084 Cleaning/Certified Date 3-12-14
Vacuum of Canister -28.6 Analyst AT
This canister has been cleaned and certified as of the above date to be acceptable for use in the field sampling.
Sample ID # Sample 3 Room #3
Project # 620156M Method 10154 EPA
Date 3/15/14 Time 0700
Pressure of can -29.5 Sampler JE
Grab Timed hr Flow Control # 2616



Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1065-1

Login Number: 1065

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-1073-1

Login Number: 1073

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Job Narrative
140-1065-1

Comments

No additional comments.

Receipt

The samples were received on 3/18/2014 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Except:

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: SAMPLE 1 - CRAWLSPACE (140-1065-9).

Air - GC/MS VOA

There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

No other analytical or quality issues were noted.

Job Narrative
140-1073-1

Comments

No additional comments.

Receipt

The samples were received on 3/19/2014 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. SAMPLE 1-CRAWLSPACE was the only sample received with this shipment.

Air - GC/MS VOA

There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: The following analyte(s) recovered outside control limits for the LCS associated with batch 984: acetone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
2,3-dihydroindene
Indene
Thiophene

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

No other analytical or quality issues were noted.

Malzone, Greg

From: McKinney, Jamie <Jamie.McKinney@testamericainc.com>
Sent: Friday, April 11, 2014 10:22 AM
To: Malzone, Greg
Cc: Pfeiffer, Jennifer; Ehlen, Jessica
Subject: RE: 140-1065-1 and 140-1073-1 6-L Summa Canister ID Question
Attachments: Re: call

Hey Greg!

You will not have an individual clean chromatogram for those cans. Additional cans were requested for delivery on Saturday. We couldn't ship cans and have them delivered in time. We had BATCH cans at the service center that could be delivered. Jennifer approved receiving BATCH cans if that was the only way to receive the additional cans (see attached email).

Please let me know if you have any other questions.

Jamie

JAMIE MCKINNEY
Senior Project Manager

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From: Malzone, Greg [mailto:greg.malzone@aecom.com]
Sent: Friday, April 11, 2014 9:31 AM
To: McKinney, Jamie
Cc: Pfeiffer, Jennifer; Ehlen, Jessica
Subject: RE: 140-1065-1 and 140-1073-1 6-L Summa Canister ID Question

Hi Jamie:

I am finishing up the validation of the ConEd/East 21st St. air samples. There are no clean certification chromatograms for two canister IDs in reports 140-1065-1 and 140-1073-1.

There is not clean certification chromatogram for Sample 3 – Room #2 (Canister ID 10811) 140-1065-2

There is not clean certification chromatogram for Sample 1 – Crawlspace (Canister ID 09610) 140-1073-1

I have attached the chain-of-custody record and the photos of the canister tags for the samples listed above for your review.

Thank you for looking into this for us.

Gregory A. Malzone
Project Chemist
Environment
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Please consider the environment before printing this e-mail.

From: McKinney, Jamie [<mailto:Jamie.McKinney@testamericainc.com>]
Sent: Tuesday, April 08, 2014 11:24 AM
To: Malzone, Greg
Cc: Pfeiffer, Jennifer; Ehlen, Jessica
Subject: RE: 140-1060-1 6-L Summa Canister ID Question

Hey Greg!
See my comments below. Please let me know if you have any other questions.
Jamie

JAMIE MCKINNEY
Senior Project Manager

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From: Malzone, Greg [<mailto:greg.malzone@aecom.com>]
Sent: Tuesday, April 08, 2014 10:54 AM
To: McKinney, Jamie
Cc: Pfeiffer, Jennifer; Ehlen, Jessica
Subject: 140-1060-1 6-L Summa Canister ID Question

Hi Jamie:

In doing the data validation for the ConEd/21st Street air samples, I have a question regarding three canister IDs. See attached information on project 140-1060-1.

The canister ID listed on the CoC for PCV-IA3-B17 is "10188." There is no clean canister certification record for "10188." The clean canister certification records do have an ID of "10185." The can listed on the COC was incorrect. This was can 10815. The data starts on page 1373.

The canister ID listed on the CoC for PCV-IA4-B17 is "10587." There is no clean canister certification record for "10587." The clean canister certification records do have an ID of "10578." The can listed on the COC was incorrect. This was can 10262. The data starts on page 1313.

The canister ID listed on the CoC for PCV-IA5-B17 is "1073." There is no clean canister certification record for "1073." The clean canister certification records do have IDs of "10731" and "10733." The can listed on the COC was incomplete. This was can 10731. The data starts on page 1289.

Has there been a transcription of typographical error made?

Gregory A. Malzone
Project Chemist
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Please consider the environment before printing this e-mail.

Malzone, Greg

From: Pfeiffer, Jennifer <Jennifer.Pfeiffer@aecom.com>
Sent: Friday, March 14, 2014 1:45 PM
To: McKinney, Jamie
Cc: Crosby, Taryn
Subject: Re: call

hi jamie,
ok, 1-2 should be enough. we're sampling at 5 areas tomorrow and only have 5 remaining. both please.
if we're in a pinch, then yes batch would be ok. i'll discuss it with greg malzone to let him know just in case.

thanks
jenn

Sent from my iPhone

On Mar 14, 2014, at 1:36 PM, "McKinney, Jamie" <Jamie.McKinney@testamericainc.com> wrote:

> Working to get you cans and flows for tomorrow. How many do you need? Do you need just cans or cans and flows?
> Taryn said you would accept batch cans if individual cans weren't available. Is that correct?

>
>
>

> JAMIE MCKINNEY
> Senior Project Manager
>
> TestAmerica
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>
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> Knoxville, TN 37921
> Tel 865.291.3051 I Fax 865.584.4315
> www.testamericainc.com

>
>
>

> -----Original Message-----

> From: Pfeiffer, Jennifer [<mailto:Jennifer.Pfeiffer@aecom.com>]
> Sent: Friday, March 14, 2014 1:28 PM
> To: McKinney, Jamie; Crosby, Taryn
> Subject: call

>
> hi jamie,

> i just saw you called, i'm sorry i'm unable to take a call right now. would you mind emailing me your question?

> thanks
> jenn

>
> Sent from my iPhone
>

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville

Job No.: 140-1065-1

Analy Batch No.: 946

SDG No.:

Instrument ID: MJ

GC Column: RTX-5 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40

Calibration End Date: 03/11/2014 19:57

Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	+++++	1.9901	2.0881	1.6610	1.5999	Ave		1.6989			13.0		30.0				
	1.5962	1.5455	1.7015	1.4088							6.7		30.0				
Trichlorofluoromethane		3.4010	3.9742	3.3853	3.3401	Ave		3.4807									
	3.3842	3.3373	3.7583	3.2490													
Acrolein	+++++	0.4128	0.3655	0.2328	0.3081	Ave		0.3266			18.0		30.0				
	0.3021	0.2855	0.3935	0.3121													
Acetonitrile	+++++	0.4098	0.4320	0.3296	0.3366	Ave		0.3607			12.0		30.0				
	0.3368	0.3061	0.3943	0.3403													
Acetone	+++++	0.3424	0.3699	0.7210	0.8316	Ave		0.5666			38.0 *		30.0				
Isopropyl alcohol	+++++	1.7112	1.5277	1.4569		Ave		1.5014			7.8		30.0				
	1.4403	1.4471	1.5786	1.3482													
Pentane	+++++	0.1929	0.2420	0.2107	0.2100	Ave		0.2152			7.7		30.0				
	0.2110	0.2103	0.2383	0.2065													
Ethyl ether	+++++	1.2193	1.2370	0.8503	1.0780	Ave		1.0466			13.0		30.0				
	1.0219	0.9461	1.0985	0.9217													
1,1-Dichloroethene		1.2472	1.1312	1.2574	1.0484	Ave		1.1230			7.9		30.0				
	1.0504	1.0692	1.1985	1.0684													
tert-Butyl alcohol	+++++	2.1474	2.1170	1.9306	1.7618	Ave		1.8495			12.0		30.0				
	1.5527	1.6753	1.9312	1.6797													
Acrylonitrile		0.6036	0.6491	0.4430	0.5680	Ave		0.5945			13.0		30.0				
	0.5684	0.5529	0.6783	0.6032													
1,1,2-Trichloro-1,2,2-trifluoroethane		2.4110	2.4189	2.7256	2.3179	Ave		2.4119			6.2		30.0				
	2.3296	2.3382	2.5850	2.2877													
Methylene Chloride	+++++	1.3860	1.0569	1.0231		Ave		1.0701			14.0		30.0				
	1.0284	1.0127	1.0525	0.9311													
3-Chloropropene	+++++	1.4141	1.4133	1.0400	1.0351	Ave		1.1131			17.0		30.0				
	1.0457	1.0202	1.0428	0.8935													
Carbon disulfide		3.8327	3.8048	4.3304	3.6252	Ave		3.7629			7.3		30.0				
	3.6559	3.6157	4.0136	3.4128													
trans-1,2-Dichloroethene		1.5956	1.4088	1.5141	1.2666	Ave		1.3526			9.5		30.0				
	1.2849	1.2971	1.3354	1.2156													
2-Methylpentane		3.5143	3.3896	3.6215	2.9875	Ave		3.0866			12.0		40.0				
	2.9748	2.8931	3.0116	2.4248													
Methyl tert-butyl ether	+++++	2.2440	2.3259	1.7335	2.0623	Ave		2.0415			9.8		30.0				
	2.0306	1.9367	2.1576	1.8416													
1,1-Dichloroethane		2.2983	2.2481	2.5871	1.8978	Ave		2.1108			11.0		30.0				
	2.0618	2.0212	1.9936	1.7914													
Vinyl acetate	+++++	2.0207	2.0413	1.4173	1.8240	Ave		1.8493			12.0		30.0				
	1.8387	1.7150	2.1043	1.8329													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

Used for ethanol only

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-979/1002

Matrix: Air

Analysis Batch: 979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	2.00	2.13		ppb v/v		106	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.39		ppb v/v		119	70 - 130
1,1,2-Trichloroethane	2.00	2.11		ppb v/v		106	70 - 130
1,1-Dichloroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1-Dichloroethene	2.00	2.36		ppb v/v		118	70 - 130
1,2,4-Trichlorobenzene	2.00	1.55		ppb v/v		77	60 - 140
1,2,4-Trimethylbenzene	2.00	1.98		ppb v/v		99	70 - 130
1,2-Dibromoethane (EDB)	2.00	2.15		ppb v/v		108	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.09		ppb v/v		105	60 - 140
1,2-Dichlorobenzene	2.00	1.86		ppb v/v		93	70 - 130
1,2-Dichloroethane	2.00	2.12		ppb v/v		106	70 - 130
1,2-Dichloropropane	2.00	2.15		ppb v/v		107	70 - 130
1,3,5-Trimethylbenzene	2.00	2.07		ppb v/v		103	70 - 130
1,3-Butadiene	2.00	2.25		ppb v/v		113	60 - 140
1,3-Dichlorobenzene	2.00	1.93		ppb v/v		96	70 - 130
1,4-Dichlorobenzene	2.00	1.93		ppb v/v		96	70 - 130
1,4-Dioxane	2.00	1.81		ppb v/v		91	60 - 140
2,2,4-Trimethylpentane	2.00	2.06		ppb v/v		103	70 - 130
2,3-Dimethylpentane	2.00	2.13		ppb v/v		106	20 - 180
2-Butanone (MEK)	2.00	1.64		ppb v/v		82	60 - 140
2-Hexanone	2.00	1.65		ppb v/v		83	60 - 140
2-Methylbutane	2.00	2.17		ppb v/v		109	70 - 130
2-Methylpentane	2.00	2.15		ppb v/v		108	20 - 180
4-Ethyltoluene	2.00	2.00		ppb v/v		100	70 - 130
4-Methyl-2-pentanone (MIBK)	2.00	1.92		ppb v/v		96	60 - 140
Acetone	2.00	ND	*	ppb v/v		0	60 - 140
Benzene	2.00	2.12		ppb v/v		106	70 - 130
Benzyl chloride	2.00	2.01		ppb v/v		100	70 - 130
Bromodichloromethane	2.00	2.06		ppb v/v		103	70 - 130
Bromoform	2.00	2.11		ppb v/v		106	60 - 140
Bromomethane	2.00	1.98		ppb v/v		99	70 - 130
Carbon disulfide	2.00	2.10		ppb v/v		105	70 - 130
Carbon tetrachloride	2.00	2.09		ppb v/v		104	70 - 130
Chlorobenzene	2.00	2.11		ppb v/v		106	70 - 130
Chloroethane	2.00	2.06		ppb v/v		103	70 - 130
Chloroform	2.00	2.18		ppb v/v		109	70 - 130
Chloromethane	2.00	2.25		ppb v/v		113	60 - 140
cis-1,2-Dichloroethene	2.00	2.27		ppb v/v		113	70 - 130
cis-1,3-Dichloropropene	2.00	2.20		ppb v/v		110	70 - 130
Cyclohexane	2.00	1.96		ppb v/v		98	70 - 130
Dibromochloromethane	2.00	2.15		ppb v/v		108	70 - 130
Dichlorodifluoromethane	2.00	2.23		ppb v/v		112	60 - 140
Ethanol	10.0	9.99		ppb v/v		100	20 - 180
Ethylbenzene	2.00	2.18		ppb v/v		109	70 - 130
Heptane	2.00	2.02		ppb v/v		101	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-979/1002

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2.00	1.46		ppb v/v		73	60 - 140
Hexane	2.00	2.02		ppb v/v		101	70 - 130
Indane	2.00	2.01		ppb v/v		100	20 - 180
Indene	2.00	1.98		ppb v/v		99	20 - 180
Isopropyl alcohol	2.00	1.82		ppb v/v		91	60 - 140
Methyl tert-butyl ether	2.00	2.02		ppb v/v		101	60 - 140
Methylene Chloride	2.00	2.25		ppb v/v		113	70 - 130
m-Xylene & p-Xylene	4.00	4.27		ppb v/v		107	70 - 130
Naphthalene	2.00	1.59		ppb v/v		80	40 - 140
o-Xylene	2.00	2.13		ppb v/v		106	70 - 130
Propene	2.00	2.02		ppb v/v		101	60 - 140
Styrene	2.00	2.29		ppb v/v		114	70 - 130
Tetrachloroethene	2.00	2.08		ppb v/v		104	70 - 130
Tetrahydrofuran	2.00	2.09		ppb v/v		104	60 - 140
Thiophene	2.00	2.14		ppb v/v		107	20 - 180
Toluene	2.00	2.14		ppb v/v		107	70 - 130
trans-1,2-Dichloroethene	2.00	2.03		ppb v/v		102	70 - 130
trans-1,3-Dichloropropene	2.00	2.18		ppb v/v		109	70 - 130
Trichloroethene	2.00	2.10		ppb v/v		105	70 - 130
Trichlorofluoromethane	2.00	1.97		ppb v/v		98	60 - 140
Vinyl chloride	2.00	2.23		ppb v/v		111	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.6		ug/m3		106	70 - 130
1,1,2,2-Tetrachloroethane	14	14.4		ug/m3		105	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15	18.3		ug/m3		119	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		106	70 - 130
1,1-Dichloroethane	8.1	9.00		ug/m3		111	70 - 130
1,1-Dichloroethene	7.9	9.34		ug/m3		118	70 - 130
1,2,4-Trichlorobenzene	15	11.5		ug/m3		77	60 - 140
1,2,4-Trimethylbenzene	9.8	9.73		ug/m3		99	70 - 130
1,2-Dibromoethane (EDB)	15	16.5		ug/m3		108	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14	14.6		ug/m3		105	60 - 140
1,2-Dichlorobenzene	12	11.2		ug/m3		93	70 - 130
1,2-Dichloroethane	8.1	8.56		ug/m3		106	70 - 130
1,2-Dichloropropane	9.2	9.93		ug/m3		107	70 - 130
1,3,5-Trimethylbenzene	9.8	10.2		ug/m3		103	70 - 130
1,3-Butadiene	4.4	4.98		ug/m3		113	60 - 140
1,3-Dichlorobenzene	12	11.6		ug/m3		96	70 - 130
1,4-Dichlorobenzene	12	11.6		ug/m3		96	70 - 130
1,4-Dioxane	7.2	6.53		ug/m3		91	60 - 140
2,2,4-Trimethylpentane	9.3	9.64		ug/m3		103	70 - 130
2,3-Dimethylpentane	8.2	8.73		ug/m3		106	20 - 180
2-Butanone (MEK)	5.9	4.84		ug/m3		82	60 - 140
2-Hexanone	8.2	6.77		ug/m3		83	60 - 140
2-Methylbutane	5.9	6.41		ug/m3		109	70 - 130
2-Methylpentane	7.0	7.58		ug/m3		108	20 - 180

TestAmerica Knoxville

QC Sample Results

Client: AECOM, Inc.
Project/Site: PCV/ST

TestAmerica Job ID: 140-1065-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-979/1002

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 979

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
4-Ethyltoluene	9.8	9.83		ug/m3		100	70 - 130
4-Methyl-2-pentanone (MIBK)	8.2	7.88		ug/m3		96	60 - 140
Acetone	4.8	ND	*	ug/m3		0	60 - 140
Benzene	6.4	6.77		ug/m3		106	70 - 130
Benzyl chloride	10	10.4		ug/m3		100	70 - 130
Bromodichloromethane	13	13.8		ug/m3		103	70 - 130
Bromoform	21	21.8		ug/m3		106	60 - 140
Bromomethane	7.8	7.68		ug/m3		99	70 - 130
Carbon disulfide	6.2	6.55		ug/m3		105	70 - 130
Carbon tetrachloride	13	13.1		ug/m3		104	70 - 130
Chlorobenzene	9.2	9.73		ug/m3		106	70 - 130
Chloroethane	5.3	5.43		ug/m3		103	70 - 130
Chloroform	9.8	10.7		ug/m3		109	70 - 130
Chloromethane	4.1	4.65		ug/m3		113	60 - 140
cis-1,2-Dichloroethene	7.9	8.99		ug/m3		113	70 - 130
cis-1,3-Dichloropropene	9.1	9.98		ug/m3		110	70 - 130
Cyclohexane	6.9	6.76		ug/m3		98	70 - 130
Dibromochloromethane	17	18.3		ug/m3		108	70 - 130
Dichlorodifluoromethane	9.9	11.0		ug/m3		112	60 - 140
Ethanol	19	18.8		ug/m3		100	20 - 180
Ethylbenzene	8.7	9.45		ug/m3		109	70 - 130
Heptane	8.2	8.27		ug/m3		101	70 - 130
Hexachlorobutadiene	21	15.6		ug/m3		73	60 - 140
Hexane	7.0	7.13		ug/m3		101	70 - 130
Indane	9.7	9.70		ug/m3		100	20 - 180
Indene	9.5	9.40		ug/m3		99	20 - 180
Isopropyl alcohol	4.9	4.48		ug/m3		91	60 - 140
Methyl tert-butyl ether	7.2	7.28		ug/m3		101	60 - 140
Methylene Chloride	6.9	7.82		ug/m3		113	70 - 130
m-Xylene & p-Xylene	17	18.5		ug/m3		107	70 - 130
Naphthalene	10	8.34		ug/m3		80	40 - 140
o-Xylene	8.7	9.25		ug/m3		106	70 - 130
Propene	3.4	3.48		ug/m3		101	60 - 140
Styrene	8.5	9.74		ug/m3		114	70 - 130
Tetrachloroethene	14	14.1		ug/m3		104	70 - 130
Tetrahydrofuran	5.9	6.16		ug/m3		104	60 - 140
Thiophene	6.9	7.38		ug/m3		107	20 - 180
Toluene	7.5	8.06		ug/m3		107	70 - 130
trans-1,2-Dichloroethene	7.9	8.05		ug/m3		102	70 - 130
trans-1,3-Dichloropropene	9.1	9.90		ug/m3		109	70 - 130
Trichloroethene	11	11.3		ug/m3		105	70 - 130
Trichlorofluoromethane	11	11.0		ug/m3		98	60 - 140
Vinyl chloride	5.1	5.69		ug/m3		111	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		60 - 140

TestAmerica Knoxville

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville

Job No.: 140-1073-1

SDG No.:

Lab Sample ID: CCVIS 140-984/2

Calibration Date: 03/21/2014 11:30

Instrument ID: MJ

Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32 (mm)

Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC21.D

Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4207		2.04	2.00	1.9	30.0
Propene	Ave	1.227	1.184		1.93	2.00	-3.4	30.0
Dichlorodifluoromethane	Ave	3.962	4.150		2.10	2.00	4.8	30.0
Chloromethane	Ave	0.4501	0.4579		2.04	2.00	1.7	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.260		2.18	2.00	9.0	30.0
Acetaldehyde	Ave	0.3947	0.2601		6.59	10.0	-34.1	50.0
Vinyl chloride	Ave	1.483	1.526		2.06	2.00	2.9	30.0
1,3-Butadiene	Ave	1.030	1.077		2.09	2.00	4.6	30.0
Butane	Ave	2.110	2.103		1.99	2.00	-0.4	30.0
Bromomethane	Ave	1.508	1.496		1.98	2.00	-0.8	30.0
Chloroethane	Ave	0.6822	0.6755		1.98	2.00	-1.0	30.0
Ethanol	Ave	0.3211	0.2990		9.32	10.0	-6.9	50.0
Vinyl bromide	Ave	1.283	1.370		2.14	2.00	6.8	30.0
2-Methylbutane	Ave	1.699	1.681		1.98	2.00	-1.0	30.0
Trichlorofluoromethane	Ave	3.481	3.580		2.06	2.00	2.8	30.0
Acrolein	Ave	0.3266	0.1911		1.17	2.00	-41.5*	30.0
Acetonitrile	Ave	0.3607	0.2577		1.43	2.00	-28.5	30.0
Acetone	Ave	0.5686	0.2993		1.05	2.00	-47.4*	30.0
Isopropyl alcohol	Ave	1.501	1.361		1.81	2.00	-9.4	30.0
Pentane	Ave	0.2152	0.2127		1.98	2.00	-1.2	30.0
Ethyl ether	Ave	1.047	0.8661		1.66	2.00	-17.3	30.0
1,1-Dichloroethene	Ave	1.123	1.292		2.30	2.00	15.0	30.0
tert-Butyl alcohol	Ave	1.849	1.551		1.68	2.00	-16.1	30.0
Acrylonitrile	Ave	0.5945	0.4430		1.49	2.00	-25.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.724		2.26	2.00	12.9	30.0
Methylene Chloride	Ave	1.070	1.141		2.13	2.00	6.6	30.0
3-Chloropropene	Ave	1.113	0.9586		1.72	2.00	-13.9	30.0
Carbon disulfide	Ave	3.763	3.853		2.05	2.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.285		1.90	2.00	-5.0	30.0
2-Methylpentane	Ave	3.087	2.917		1.89	2.00	-5.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.862		1.83	2.00	-8.8	30.0
1,1-Dichloroethane	Ave	2.111	1.928		1.83	2.00	-8.7	30.0
Vinyl acetate	Ave	1.849	1.496		1.62	2.00	-19.1	30.0
2-Butanone (MEK)	Ave	0.3786	0.3230		1.71	2.00	-14.7	30.0
Hexane	Ave	1.075	0.9122		1.70	2.00	-15.2	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.091		1.89	2.00	-5.5	30.0
Ethyl acetate	Ave	1.649	1.522		1.85	2.00	-7.7	30.0
Chloroform	Ave	2.331	2.088		1.79	2.00	-10.4	30.0
Tetrahydrofuran	Ave	0.9265	0.8026		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.429	2.205		1.82	2.00	-9.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.2842		1.83	2.00	-8.4	30.0
1-Butanol	Ave	0.0874	0.0741		1.69	2.00	-15.3	30.0
Benzene	Ave	0.6863	0.6023		1.76	2.00	-12.2	30.0
Cyclohexane	Ave	0.1354	0.1251		1.85	2.00	-7.6	30.0
Carbon tetrachloride	Ave	0.5669	0.5069		1.79	2.00	-10.6	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1366		1.69	2.00	-15.6	50.0
Thiophene	Ave	0.4238	0.3651		1.72	2.00	-13.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	0.9938		1.70	2.00	-15.2	30.0
Heptane	Ave	0.2427	0.2046		1.69	2.00	-15.7	30.0
1,2-Dichloropropane	Ave	0.2320	0.1929		1.66	2.00	-16.9	30.0
Trichloroethene	Ave	0.3329	0.2956		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3053	0.2586		1.70	2.00	-15.3	30.0
Bromodichloromethane	Ave	0.4844	0.4176		1.73	2.00	-13.8	30.0
1,4-Dioxane	Ave	0.0831	0.0658		1.58	2.00	-20.9	30.0
Methyl methacrylate	Ave	0.2081	0.1830		1.76	2.00	-12.1	30.0
Methylcyclohexane	Ave	0.4620	0.3884		1.68	2.00	-15.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3639		1.74	2.00	-13.2	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2720		1.65	2.00	-17.4	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2820		1.70	2.00	-14.9	30.0
Toluene	Ave	0.7420	0.6258		1.69	2.00	-15.7	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.1977		1.68	2.00	-16.0	30.0
2-Methylthiophene	Ave	0.6668	0.5614		1.68	2.00	-15.8	50.0
3-Methylthiophene	Ave	0.6690	0.5613		1.68	2.00	-16.1	50.0
2-Hexanone	Ave	0.2430	0.2128		1.75	2.00	-12.4	30.0
Octane	Ave	0.2723	0.2327		1.71	2.00	-14.5	30.0
Dibromochloromethane	Ave	0.5191	0.4509		1.74	2.00	-13.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3412		1.69	2.00	-15.3	30.0
Tetrachloroethene	Ave	0.3457	0.2934		1.70	2.00	-15.1	30.0
Chlorobenzene	Ave	0.6339	0.5183		1.64	2.00	-18.2	30.0
2,3-Dimethylheptane	Ave	0.8171	0.7448		1.82	2.00	-8.9	50.0
Ethylbenzene	Ave	0.8196	0.6973		1.70	2.00	-14.9	30.0
2-Ethylthiophene	Ave	0.6423	0.5410		1.69	2.00	-15.8	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.5424		3.28	4.00	-18.0	30.0
Nonane	Ave	0.5146	0.4418		1.72	2.00	-14.2	30.0
Bromoform	Ave	0.4101	0.3321		1.62	2.00	-19.0	30.0
Styrene	Ave	0.4542	0.3714		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.6705	0.5593		1.67	2.00	-16.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4749		1.73	2.00	-13.3	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1104		1.68	2.00	-15.9	30.0
Isopropylbenzene	Ave	0.9553	0.7998		1.68	2.00	-16.3	30.0
Propylbenzene	Ave	0.2519	0.2122		1.69	2.00	-15.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1073-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-984/2 Calibration Date: 03/21/2014 11:30
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2109		1.60	2.00	-19.8	30.0
4-Ethyltoluene	Ave	0.8909	0.7769		1.75	2.00	-12.8	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3794		1.69	2.00	-15.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.2773		1.73	2.00	-13.6	30.0
Decane	Ave	0.5485	0.4666		1.70	2.00	-14.9	30.0
tert-Butylbenzene	Ave	0.8748	0.7348		1.68	2.00	-16.0	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6674		1.72	2.00	-14.1	30.0
sec-Butylbenzene	Ave	1.140	0.9833		1.73	2.00	-13.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.3793		1.49	2.00	-25.7	30.0
Benzyl chloride	Ave	0.5802	0.4614		1.59	2.00	-20.5	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.3488		1.47	2.00	-26.6	30.0
4-Isopropyltoluene	Ave	0.9141	0.7960		1.74	2.00	-12.9	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5614		1.77	2.00	-11.3	50.0
Butylcyclohexane	Ave	0.7225	0.6071		1.68	2.00	-16.0	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.3780		1.51	2.00	-24.3	30.0
Indane	Ave	0.7098	0.6031		1.70	2.00	-15.0	50.0
Butylbenzene	Ave	0.8482	0.7088		1.67	2.00	-16.4	30.0
Indene	Ave	0.6202	0.5411		1.75	2.00	-12.8	50.0
Undecane	Ave	0.5525	0.4737		1.72	2.00	-14.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7178		1.68	2.00	-16.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7582		1.76	2.00	-11.9	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4636		1.65	2.00	-17.5	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.5948		1.71	2.00	-14.6	50.0
Dodecane	Ave	0.5721	0.4622		1.62	2.00	-19.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1686		1.52	2.00	-24.1	30.0
Naphthalene	Ave	0.6294	0.4711		1.50	2.00	-25.1	30.0
Benzo(b)thiophene	Ave	0.4265	0.3162		1.48	2.00	-25.9	50.0
Hexachlorobutadiene	Ave	0.4540	0.3248		1.43	2.00	-28.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2173		1.51	2.00	-24.3	30.0
2-Methylnaphthalene	Ave	0.0669	0.0334		6.25	12.5	-50.1*	50.0
1-Methylnaphthalene	Ave	0.0690	0.0369		6.68	12.5	-46.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7060		3.99	4.00	-0.2	30.0