Former Goodman Brothers Steel Drum Company Investigation

Site Number: 224211
Call Out ID: 126830
18 Division Place
Brooklyn, New York 11222

Report Date:

December 9, 2016

Prepared For:

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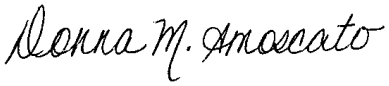
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Former Goodman Brothers Steel Drum Company Investigation

18 Division Place
Brooklyn, New York 11222



Jeffrey A. Bohlen
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December 9, 2016

Date

EnviroTrac
Environmental Services

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1.0 Introduction

EnviroTrac Ltd. (EnviroTrac) was retained by the New York State Department of Environmental Conservation (NYSDEC) under Contract No. C100902 to conduct a sub-surface investigation (soil, soil vapor) for the Former Goodman Brothers Steel Drum Company Site, NYSDEC Site No. 224211, 18 Division Place, Brooklyn, NY, herein referred to as the Site. This sub-surface investigation was conducted pursuant to the NYSDEC Standby Contractor Work Authorization (Call Out) Form received by EnviroTrac on July 27, 2016, which is included in **Appendix A**. The investigation was performed on the surrounding and adjacent streets to the Site. A United States Geological Survey (USGS) topographic map is included as **Figure 1** and a Site Plan with soil vapor point locations and surrounding area is presented as **Figure 2.** Photographic documentation of the investigation is provided in **Appendix B.**

2.0 Site Background

The Former Goodman Brothers Steel Drum Company (Goodman Brothers) was formerly located at 18 Division Place between Kingsland Avenue and Debevoise Avenue in Brooklyn, Kings County, NY (**Figure 1**). The Site consisted of a two (2) story, 11,438-square foot building which was utilized for industrial and manufacturing purposes and was built in 1920 (**Figure 2**). Goodman Brothers specialized in the re-conditioning and recycling of used steel drums that operated from 1909-2004.

EnviroTrac, under Call-Out ID 126830, was assigned to conduct a sub-surface investigation at the Site which included the installation of twelve (12) permanent soil vapor points for the analysis of volatile organic compounds (VOCs) and sidewalk restoration at locations determined by the NYSDEC. A soil vapor intrusion (SVI) sampling program will also be completed at selected residences in the neighborhood surrounding the Site in the winter of 2016. A summary of the work conducted at the Site to date is presented below.

3.0 Soil Vapor Point Installations

On August 22 and 23, 2016, EnviroTrac provided oversight for the installation of 12 soil vapor point installations (SG-211, SG-212, SB-213, SG-214, SG-215, SG-216, SG-217, SG-218, SG-219, SG-220, SG-221, and SG-222) on several streets surrounding the Site. **Figure 2** depicts the soil vapor point installation locations. Prior to installation, all underground utilities at and in the vicinity of the boring locations were marked using the one-call public utility notification process (NY 811). Additionally, USIC LLC. of Hauppauge, New York scanned the boring locations using a combination of toning equipment and ground penetrating radar (GPR) for the presence of underground utilities. The 12 boring locations were pre-cleared to a minimum of five (5) feet below grade (fbg) utilizing hand clearing equipment operated by Associated Environmental Services (Associated) of Hauppauge, New York. All drilling activities at the Site were performed by Associated via Geoprobe® direct push method.

Soils were screened during the soil vapor point installations. The soils were inspected for visual and olfactory indications of contamination and were also screened using a photo-ionization detector (PID) for the presence of VOCs. There were no PID readings recorded above 0.0 parts per million (ppm) at any of the soil sample locations. In general, soils consisted of medium to fine grained sand with some fill, cobbles, and gravel to the maximum explored depth of 8 fbg. Soil characterization is summarized in the geological boring logs provided in **Appendix C.**

Soil cuttings generated during the installation of the soil vapor points were placed into a 55-gallon drum. Following waste characterization sampling, the drum was removed by Metro Environmental Contracting Corporation (Metro) of Lindenhurst, New York for proper off-site disposal. A copy of the waste disposal manifest is provided in **Appendix D.**

The soil vapor points were installed and sampled according to the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October, 2006 (NYSDOH Soil Vapor Guidance). Six (6)-inch stainless steel Geoprobe® soil vapor implants connected to 1/4-inch diameter by approximately eight (8) feet long polyethylene tubing were installed at each soil vapor point location. Once the soil vapor implant was in place, #00 well gravel was used to backfill around the implant approximately 1-2 feet above the screen. A layer of bentonite was placed around the remainder of the soil vapor tubing to grade to seal off the infiltration of ambient air into the sample. Soil vapor point locations are depicted on **Figure 2**.

3.1 Soil Vapor Point Sampling

Soil vapor sampling was conducted by connecting the polyethylene tubing at grade, to a six (6) liter Summa Canister equipped with a one (1) hour flow regulator. A helium tracer gas was utilized prior to the sampling of the soil vapor points. The tracer gas was used to verify that the infiltration of ambient air was not occurring during sample collection. A two (2) quart enclosure was placed over the soil vapor points and the well tubing was placed through a drilled hole at the stop of the enclosure and sealed with modeling clay. The enclosure was then sealed at the ground surface with a polyurethane foam gasket. A tank containing Ultra High Purity (UHP) helium (99.999%) was connected to a side port of the enclosure and helium allowed to fill the enclosure.

Following the application of the tracer gas, approximately one (1) to three (3) volumes were purged from the soil vapor sampling point using a Gillian GilAir-3 air sample pump. A Dielectric MGD-2002 helium detector was used to check for the presence of the tracer gas in the purged soil vapor point; if less than 10% of the tracer gas was detected, the bentonite seal at the well was considered sufficient and a sample was collected. Following the collection of the soil vapor sample, the helium detector was reconnected to the tubing to check for the presence of the tracer gas in the soil vapor; if less than 10% of the tracer gas was detected, the sample was acceptable for analysis. No elevated

concentrations of helium were detected prior to, or following, the sample collection in the soil vapor points.

3.2 Soil Vapor Point Analytical Results

A total of fourteen (14) Summa Canisters and flow regulators were supplied by Test America of Knoxville, Tennessee. Twelve (12) soil vapor point samples, one (1) duplicate and one (1) ambient air sample were collected on August 24, 2016. The soil vapor samples were submitted to Test America for analysis of VOCs via EPA Method TO-15. A chain of custody form was completed to document sample possession. A summary of the VOC detections are presented as **Table 1** and shown on **Figure 3.** The laboratory reports are provided in **Appendix E.**

Based on the analytical results, several VOCs were detected in all of the air samples collected from the soil vapor points. The highest notable detection was of 1,1,2-trichlorotriflouroethene [62,000 micrograms per cubic meter (ug/m3)] at the SG-221 sampling location on Richardson Street, west of Kingsland Avenue. Tetrachloroethane was also present at the SG-221 location (1,000 ug/m3). Other notable detections were present in the sample collected from SG-219, also located on the East side of Kingsland Avenue on Richardson Street. 2,2,4-Trimethylpentane (2,100 ug/m3), Cyclohexane (570 ug/m3), and Hexane (920 ug/m3) were detected at the SG-219 location. There was the presence of several other VOCs in the remaining soil vapor point samples that were collected, however, they appeared to be low level detections.

A Data Usability Summary Report (DUSR) for the air analysis was conducted by Environmental Data Services, Inc. of Williamsburg, Virginia using guidance from the US EPA Region 2 validation Standard Operating Procedures, the US EPA National Functional Guidelines for Data Review, as well as professional judgment. According to the DUSR, no results were rejected. Any additional qualifications of the results from the validation have been incorporated to the summary data table which is summarized in **Table 1** and depicted on **Figure 3**. A copy of the DUSR is provided in **Appendix F.**

4.0 Sidewalk Restoration

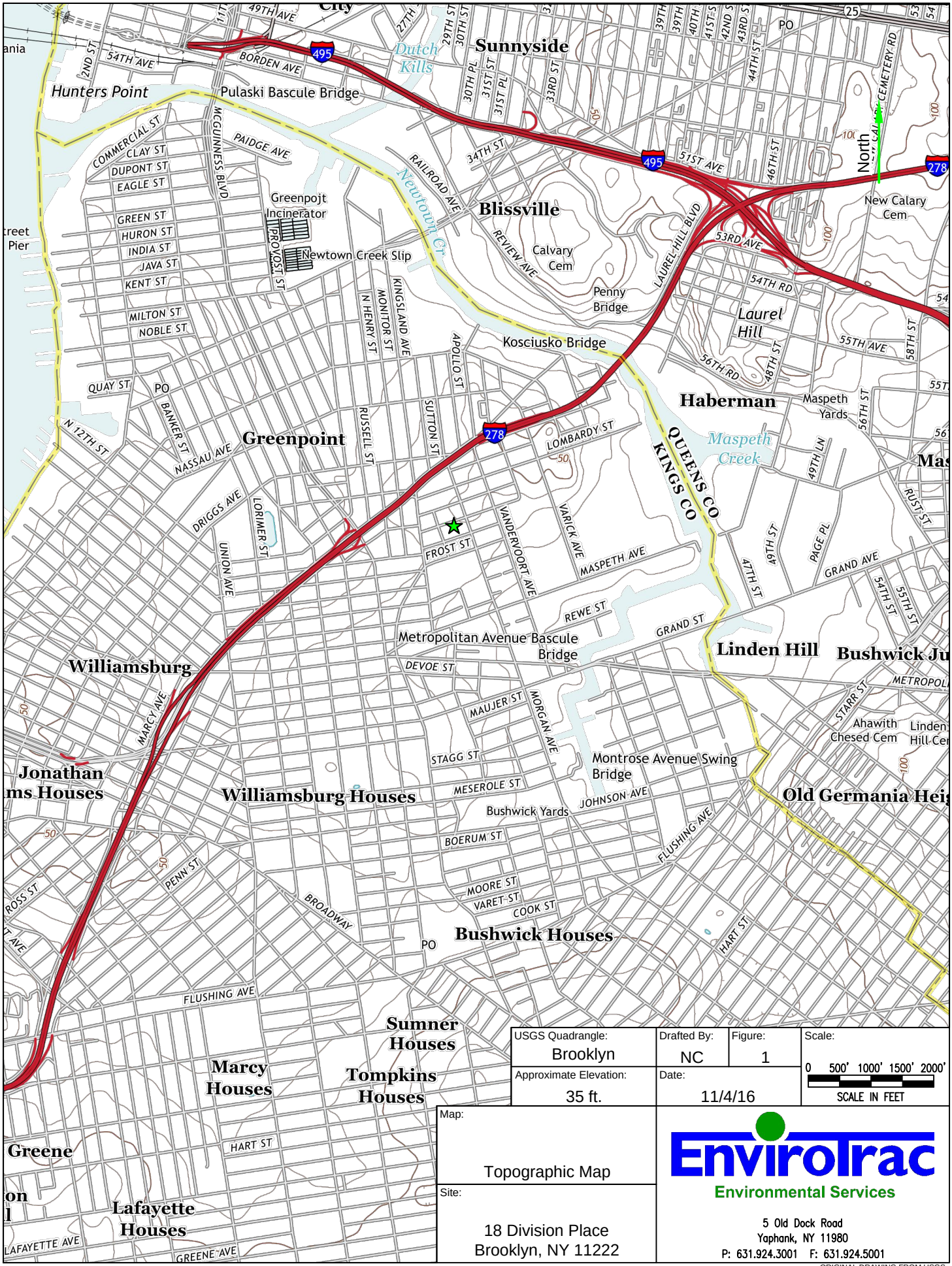
Under the direction of the NYSDEC, EnviroTrac replaced select sidewalk flags in which the new soil vapor points were installed. The sidewalks containing SG-212, SG-216 and SG-218 on Kingsland Avenue, SG-213 on Beadel Street, and SG-221 on Richardson Street were replaced on September 6 and 7, 2016. Photographic documentation of the sidewalk restoration is provided in **Appendix B.**

5.0 Summary

A total of 12 soil vapor points were installed at the Site on August 22 and 23, 2016. A total of 12 soil vapor point samples, one (1) duplicate sample and one (1) ambient air sample were collected on August 24, 2016 and were analyzed for the presence of VOCs. Upon the completion of the sampling event, a total of five (5) sidewalk flags were replaced as per the direction of the NYSDEC. Sidewalk replacement took place on September 6 and 7, 2016.

Detections of several VOCs were present in all of the soil vapor points that were collected on August 24, 2016. The highest notable detection was of 1,1,2-trichlorotriflouroethene (62,000 ug/m3) in SG-221 located on Richardson Street, west of Kingsland Avenue. Other notable detections were present in the sample collected from SG-219, also located on the East side of Kingsland Avenue on Richardson Street.

FIGURES



USGS Quadrangle:	Drafted By:	Figure:	Scale:
Brooklyn	NC	1	0 500' 1000' 1500' 2000' SCALE IN FEET
Approximate Elevation:	Date:		
35 ft.	11/4/16		

Map:

Topographic Map

Site:

18 Division Place
Brooklyn, NY 11222

EnviroTrac
Environmental Services

5 Old Dock Road
Yaphank, NY 11980
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ORIGINAL DRAWING FROM USGS.



LEGEND:
⊕ Soil Vapor Point Location

Drafted By:	Figure:	Scale:
NC	2	0 25' 50' 75' 100' SCALE IN FEET
Date: 10/19/16		

Map:
Soil Vapor Point Locations

Site:
18 Division Place
Brooklyn, NY 11222

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ORIGINAL DRAWING FROM GOOGLE EARTH.

SG-211 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Ethylbenzene	5.3
Trichlorofluoromethane	2.9
Hexane	17
tert-Butyl alcohol	12
Methylene chloride	4.2
Benzene	9.2
Styrene	1.8
Tetrachloroethene	18
Toluene	28
1,1,1-Trichloroethane	7.1
1,2,4-Trimethylbenzene	11
1,3,5-Trimethylbenzene	3
o-Xylene	9.3
1,1,2-Trichlorotrifluoroethane	22
m-Xylene & p-Xylene	21
Bromodichloromethane	3.1
2-Butanone (MEK)	80
Chloroethane	2.3
Chloroform	33
Chloromethane	0.88
1,4-Dichlorobenzene	97
Dichlorodifluoromethane	2.6

SG-212 Soil Gas Detections			
Constituent	Concentration (ug/m³)	Constituent	Concentration (ug/m³)
Ethylbenzene	2.6	1,3,4-Trimethylbenzene	7.5
Trichlorofluoromethane	2.8	1,3,5-Trimethylbenzene	1.7
Hexane	4.2	o-Xylene	5.3
tert-Butyl alcohol	7.4	m-Xylene & p-Xylene	11
Benzene	1.4	2-Butanone (MEK)	44
Tetrachloroethene	21	Chloroform	16
Toluene	8	1,4-Dichlorobenzene	110
1,1,1-Trichloroethane	5.2	Dichlorofluoromethane	1.8

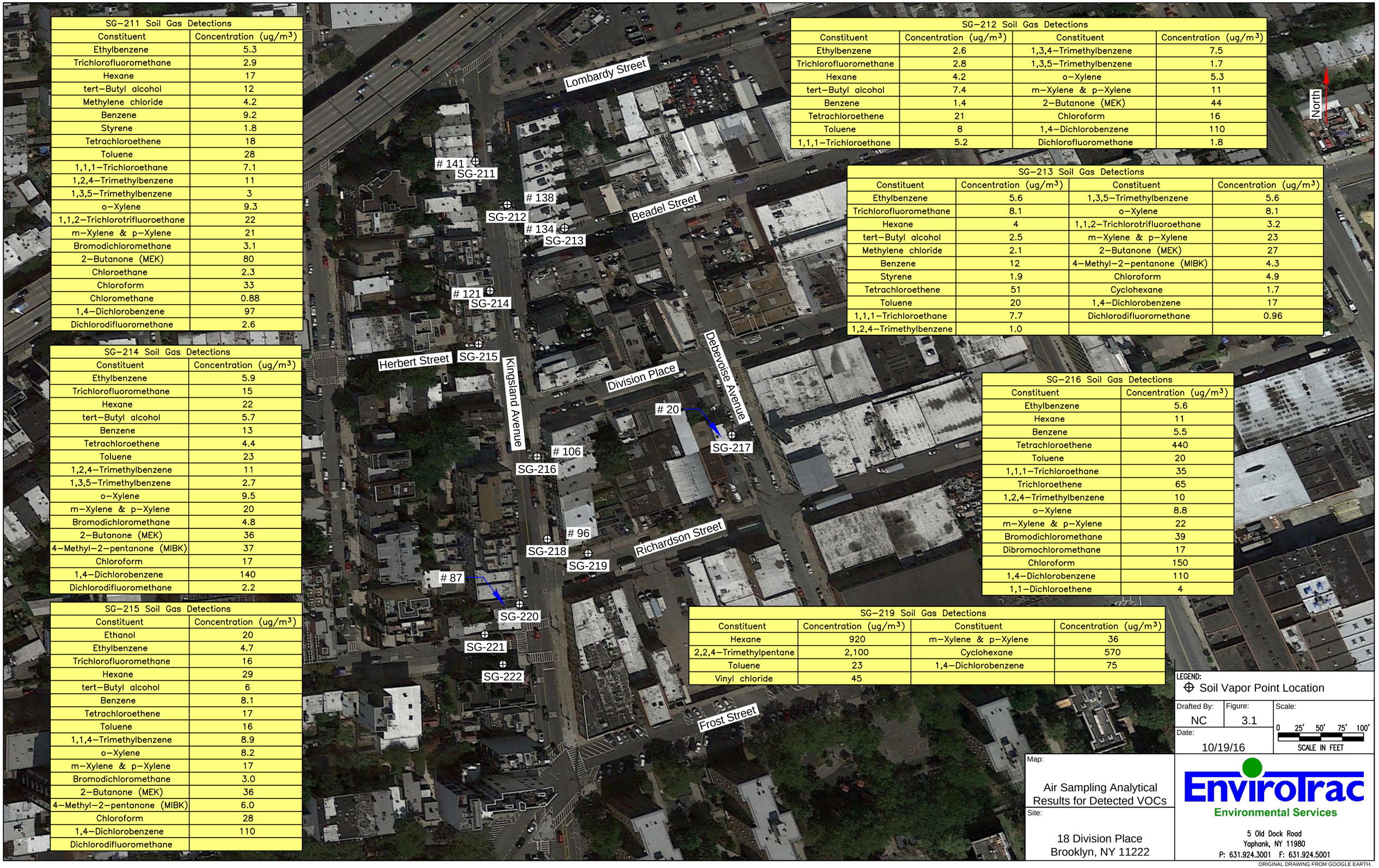
SG-213 Soil Gas Detections			
Constituent	Concentration (ug/m³)	Constituent	Concentration (ug/m³)
Ethylbenzene	5.6	1,3,5-Trimethylbenzene	5.6
Trichlorofluoromethane	8.1	o-Xylene	8.1
Hexane	4	1,1,2-Trichlorotrifluoroethane	3.2
tert-Butyl alcohol	2.5	m-Xylene & p-Xylene	23
Methylene chloride	2.1	2-Butanone (MEK)	27
Benzene	12	4-Methyl-2-pentanone (MIBK)	4.3
Styrene	1.9	Chloroform	4.9
Tetrachloroethene	51	Cyclohexane	1.7
Toluene	20	1,4-Dichlorobenzene	17
1,1,1-Trichloroethane	7.7	Dichlorodifluoromethane	0.96
1,2,4-Trimethylbenzene	1.0		

SG-214 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Ethylbenzene	5.9
Trichlorofluoromethane	15
Hexane	22
tert-Butyl alcohol	5.7
Benzene	13
Tetrachloroethene	4.4
Toluene	23
1,2,4-Trimethylbenzene	11
1,3,5-Trimethylbenzene	2.7
o-Xylene	9.5
m-Xylene & p-Xylene	20
Bromodichloromethane	4.8
2-Butanone (MEK)	36
4-Methyl-2-pentanone (MIBK)	37
Chloroform	17
1,4-Dichlorobenzene	140
Dichlorodifluoromethane	2.2

SG-215 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Ethanol	20
Ethylbenzene	4.7
Trichlorofluoromethane	16
Hexane	29
tert-Butyl alcohol	6
Benzene	8.1
Tetrachloroethene	17
Toluene	16
1,1,4-Trimethylbenzene	8.9
o-Xylene	8.2
m-Xylene & p-Xylene	17
Bromodichloromethane	3.0
2-Butanone (MEK)	36
4-Methyl-2-pentanone (MIBK)	6.0
Chloroform	28
1,4-Dichlorobenzene	110
Dichlorodifluoromethane	

SG-216 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Ethylbenzene	5.6
Hexane	11
Benzene	5.5
Tetrachloroethene	440
Toluene	20
1,1,1-Trichloroethane	35
Trichloroethene	65
1,2,4-Trimethylbenzene	10
o-Xylene	8.8
m-Xylene & p-Xylene	22
Bromodichloromethane	39
Dibromochloromethane	17
Chloroform	150
1,4-Dichlorobenzene	110
1,1-Dichloroethene	4

SG-219 Soil Gas Detections			
Constituent	Concentration (ug/m³)	Constituent	Concentration (ug/m³)
Hexane	920	m-Xylene & p-Xylene	36
2,2,4-Trimethylpentane	2,100	Cyclohexane	570
Toluene	23	1,4-Dichlorobenzene	75
Vinyl chloride	45		



LEGEND:
⊕ Soil Vapor Point Location

Drafted By:	Figure:	Scale:
NC	3.1	0 25' 50' 75' 100' SCALE IN FEET
Date: 10/19/16		

Map:
Air Sampling Analytical Results for Detected VOCs

Site:
18 Division Place
Brooklyn, NY 11222

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ORIGINAL DRAWING FROM GOOGLE EARTH.



SG–215 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Ethanol	20
Ethylbenzene	4.7
Trichlorofluoromethane	16
Hexane	29
tert–Butyl alcohol	6
Benzene	8.1
Tetrachloroethene	17
Toluene	16
1,1,4–Trimethylbenzene	8.9
o–Xylene	8.2
m–Xylene & p–Xylene	17
Bromodichloromethane	3.0
2–Butanone (MEK)	36
4–Methyl–2–pentanone (MIBK)	6.0
Chloroform	28
1,4–Dichlorobenzene	110
Dichlorodifluoromethane	

SG–216 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Ethylbenzene	5.6
Hexane	11
Benzene	5.5
Tetrachloroethene	440
Toluene	20
1,1,1–Trichloroethane	35
Trichloroethene	65
1,2,4–Trimethylbenzene	10
o–Xylene	8.8
m–Xylene & p–Xylene	22
Bromodichloromethane	39
Dibromochloromethane	17
Chloroform	150
1,4–Dichlorobenzene	110
1,1–Dichloroethene	4

SG–221 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Tetrachloroethene	1,000
1,1,2–Trichlorotrifluoroethane	62,000

SG–222 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Trichlorofluoromethane	830
Toluene	17
1,1,2–Trichlorotrifluoroethane	5,700
1,4–Dichlorobenzene	63
Trichloroethene	13

SG–218 Soil Gas Detections	
Constituent	Concentration (ug/m³)
Ethylbenzene	4.9
Hexane	16
Benzene	6.8
Tetrachloroethene	230
Toluene	19
1,1,1–Trichloroethane	19
Trichloroethane	31
1,2,4–Trimethylbenzene	8.5
o–Xylene	7.7
1,1,2–Trichlorotrifluoroethane	11
m–Xylene & p–Xylene	20
Bromodichloromethane	38
Dibromochloromethane	14
Chloroform	140
1,4–Dichlorobenzene	90
Dichlorodifluoromethane	4.1
1,1–Dichloroethane	4.7

SG–219 Soil Gas Detections			
Constituent	Concentration (ug/m³)	Constituent	Concentration (ug/m³)
Hexane	920	m–Xylene & p–Xylene	36
2,2,4–Trimethylpentane	2,100	Cyclohexane	570
Toluene	23	1,4–Dichlorobenzene	75
Vinyl chloride	45		

SG–220 Soil Gas Detections			
Constituent	Concentration (ug/m³)	Constituent	Concentration (ug/m³)
Ethanol	20	1,3,5–Trimethylbenzene	4.6
Ethylbenzene	7.3	o–Xylene	12
Trichlorofluoromethane	4.2	1,1,2–Trichlorotrifluoroethane	5.6
Hexane	15	m–Xylene & p–Xylene	29
tert–Butyl alcohol	7.6	Bromodichloromethane	54
Methylene chloride	15	2–Butanone (MEK)	28
Benzene	6.7	4–Methyl–2–pentanone (MIBK)	5.0 J
Styrene	2.6	Dibromochloromethane	25
Tetrachloroethene	220	Chloroform	130
Toluene	28	Cyclohexane	4.5
1,1,1–Trichloroethane	23	1,4–Dichlorobenzene	110
Trichloroethane	13	Dichlorodifluoromethane	2.3
1,2,4–Trimethylbenzene	14	1,1–Dichloroethane	4.8

LEGEND:
⊕ Soil Vapor Point Location

Drafted By: NC
Figure: 3.2
Date: 10/19/16
Scale: 0 25' 50' 75' 100' SCALE IN FEET

Map:
Air Sampling Analytical Results for Detected VOCs

Site:
18 Division Place
Brooklyn, NY 11222

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ORIGINAL DRAWING FROM GOOGLE EARTH.

TABLES

Table 1

Summary of Air Sampling Analytical Results for Detected VOCs

Former Goodman Brothers Steel Drum Company
Brooklyn, New York
NYSDEC # 224211

Sample ID	SG-211	SG-212	SG-212 B DUP	SG-213	SG-214	SG-215	SG-216	SG-217	SG-218	SG-219	SG-220	SG-221	SG-222	AA-1
Matrix	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	AMBIENT
Date Sampled	8/24/2016	8/24/2016	8/24/2016	8/24/2016	8/24/2016	8/24/16	8/24/16	8/24/16	8/24/16	8/24/16	8/24/16	8/24/16	8/24/16	8/24/16
Analytical Parameter	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethanol	ND	ND	22	ND	ND	20	ND	ND	ND	ND	20	ND	ND	92
Ethylbenzene	5.3	2.6	2.8	5.6	5.9	4.7	5.6	4.9	4.9	ND	7.3	ND	ND	0.72
Trichlorofluoromethane	2.9	2.8	3.1	8.1	15	16	ND	ND	ND	ND	4.2	ND	ND	0.32
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	17	4.2	4.6	4	22	29	11	54	16	920	15	ND	ND	2.0
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	ND	63	ND	2100	ND	ND	ND	2.0
tert-Butyl alcohol	12	7.4	6.4	2.5	5.7	6	ND	ND	ND	ND	7.6	ND	ND	ND
Methylene chloride	4.2	ND	3.8	2.1	ND	ND	ND	ND	ND	ND	15	ND	ND	3.1
Benzene	9.2	1.4	1.4	12	13	8.1	5.5	17	6.8	ND	6.7	ND	ND	0.75
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	53	ND	ND	ND	ND	ND	ND
Styrene	1.8	ND	ND	1.9	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	18	21	22	51	4.4	17	440	ND	230	ND	220	1000	830	ND
Toluene	28	8	8.6	20	23	16	20	19	19	23	28	ND	17	3.2
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	7.1	5.2	5.3	7.7	ND	ND	35	ND	19	ND	23	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5700	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	65	ND	31	ND	13	ND	13	ND
1,2,4-Trimethylbenzene	11	7.5	8.2	10	11	8.9	10	8.2	8.5	ND	14	ND	ND	1.1
1,3,5-Trimethylbenzene	3	1.7	1.9	2.8	2.7	ND	ND	ND	ND	ND	4.6	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	45	ND	ND	ND	ND
o-Xylene	9.3	5.3	5.6	9.6	9.5	8.2	8.8	7.8	7.7	ND	12	ND	ND	0.92
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	22	ND	ND	3.2	ND	ND	ND	ND	11	ND	5.6	62000	ND	ND
m-Xylene & p-Xylene	21	11	12	23	20	17	22	19	20	36	29	ND	ND	2.4
Bromodichloromethane	3.1	ND	1.8	ND	4.8	3.0	39	ND	38	ND	54	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	80	44	48	27	36	36	ND	31	ND	ND	28	ND	ND	3.0
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	4.3	37	6.0	ND	ND	ND	ND	5.0 J	ND	ND	8.8
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	17	ND	14	ND	25	ND	ND	ND
Chloroethane	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	33	16	16	4.9	17	28	150	ND	140	ND	130	ND	ND	ND
Chloromethane	0.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Cyclohexane	ND	ND	ND	1.7	ND	ND	ND	46	ND	570	4.5	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	97	100	110	17	140	110	110	28	90	75	110	ND	63	ND
Dichlorodifluoromethane	2.6	1.9	1.8	0.96	2.2	2.2	ND	ND	4.1	ND	2.3	ND	ND	2.5
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	4	ND	4.7	ND	4.8	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
1. Concentration Units = ug/m3.
2. Laboratory analysis via EPA Method TO-15.
3. ND = Not detected above the method detection limit of the laboratory.

APPENDIX A

NYSDEC Standby Contractor Work Authorization Form

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

STANDBY CONTRACTOR AUTHORIZATION FORM
For Response & Containment, Investigation & Remediation and Laboratory Services Contractors

General Information

Region: 2 **Site No.:** 224211 **CallOut ID:** 126830

CallOut 07/27/2016

Contract No.: C100902 **PIN (if applicable):**

Contractor Selected: ENVIROTRAC, LTD (REM)

Site Information - Name: Former Goodman Brothers Steel Drum Co. **County:** Kings
Address: 18 Division Place, Brooklyn

SCOPE OF WORK (Provide brief detailed description):

July 27, 2016:

- preliminary site visit with DEC PM during the week of August 8, 2016
- site mobilization during the week of August 22, 2016
- installation of 12 permanent soil vapor points via limited access rig
- soil vapor samples collected at all new soil vapor points for VOCs
- site survey of all relevant site features to be completed
- daily removal of all investigation-derived waste
- sidewalk restoration at locations to be determined by DEC PM
- preparation of summary report with text, tables, figures, logs, photos

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- SVI sampling program to be completed at selected residences in winter
- residential outreach to be conducted by contractor w/DEC & DOH support
- all residential appointments to be scheduled by contractor
- DOH SVI questionnaire and product inventory to be completed @ each home
- all SVI sampling points will be analyzed for VOCs
- preparation of summary report with text, tables, figures, logs, photos

initial approved budget: $82,500

ESTIMATED BUDGET: $ 82,500.00

This serves as authorization to incur costs up to the budgeted amount indicated, to perform the scope of work outlined above in connection with the above-referenced spill/site call out number. The contractor is responsible for immediately notifying the DER project manager if it becomes apparent that the scope of work can not be completed within the budget and/or the scope of work should be amended. The contractor should not incur costs that exceed the budget or perform activities outside the scope of work without the verbal or written approval of the DER project manager. The DER project manager must confirm that approval in writing in an amended Standby Contractor Authorization Form signed by the DER project manager and Rep within two business days.

DER Project Manager Name/Title:

DAVE HARRINGTON / EE2 (Print)

(Signature) Date: 7/27/16

Authorized DER Representative Name/Title:

James Moras / EE3 (Print)

(Signature) Date: 7/27/16

APPENDIX B

Photographic Documentation

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 1: Proposed boring location (SG-218).



Photograph 2: Proposed boring location (SG-219).

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 3: Sidewalk coring at SG-216 location.



Photograph 4: Completed soil vapor point installation without manhole at SG-216 location.

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 5: Geoprobe installation of soil boring (SG-218).



Photograph 6: Bentonite/grouting at SG-218.

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 7: Completed installation of soil vapor point with manhole at SG-219.



Photograph 8: Helium testing of soil vapor point on 8/24/2016.

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 9: Duplicate air sample collected at SG-212 location.



Photograph 10: Ambient Air sample (AA-1) on Beadel Street.

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 11: Sidewalk replacement



Photograph 12: Sidewalk Replacement at SG-212.

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 13: Completed sidewalk flag replacement at SG-216.



Photograph 14: Completed sidewalk replacement at SG-213.

Photograph Documentation

Former Goodman Brothers Steel Drum Company Investigation
Brooklyn, New York



Photograph 15: Completed sidewalk replacement (SG-221).

APPENDIX C

Boring Logs

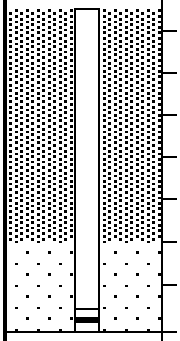
Geologic Log and Well Construction Details

SG-211

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	30 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/23/2016	Date Completed: 8/23/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-211 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

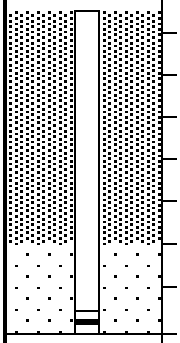
Geologic Log and Well Construction Details

SG-212

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	30 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/23/2016	Date Completed: 8/23/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-212 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel and cobbles. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

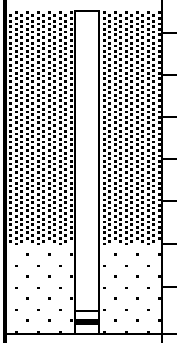
Geologic Log and Well Construction Details

SG-213

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	35 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/23/2016	Date Completed: 8/23/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-213 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

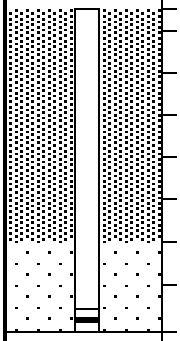
Geologic Log and Well Construction Details

SG-214

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	33 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/23/2016	Date Completed: 8/23/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-214 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

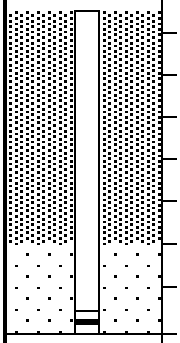
Geologic Log and Well Construction Details

SG-215

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	32 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/23/2016	Date Completed: 8/23/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-215 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

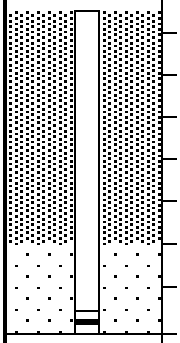
Geologic Log and Well Construction Details

SG-216

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	30 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/22/2016	Date Completed: 8/22/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-216 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

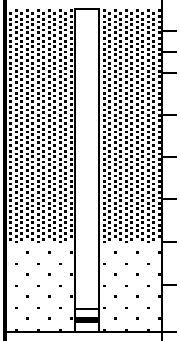
Geologic Log and Well Construction Details

SG-217

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	36 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/23/2016	Date Completed: 8/23/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-217 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

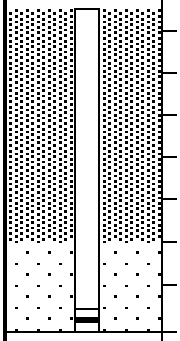
Geologic Log and Well Construction Details

SG-218

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	29 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/22/2016	Date Completed: 8/22/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-218 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

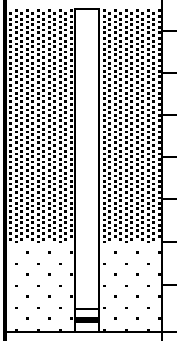
Geologic Log and Well Construction Details

SG-219

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	30 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/22/2016	Date Completed: 8/22/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-219 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some fill and gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

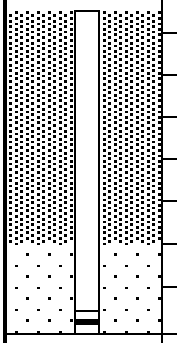
Geologic Log and Well Construction Details

SG-220

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	29 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/22/2016	Date Completed: 8/22/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-220 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some fill and gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

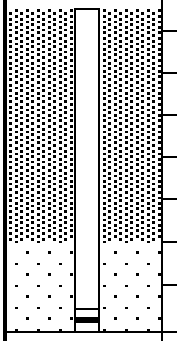
Geologic Log and Well Construction Details

SG-221

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	27 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/22/2016	Date Completed: 8/22/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-221 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some fill and gravel. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

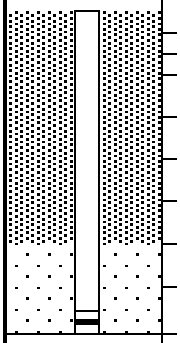
Geologic Log and Well Construction Details

SG-222

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC		Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: Former Goodman Brothers Steel Drum Company		Date / DTW	29 ft
Drilling Company: Associated	Method: Geoprobe		Measuring Point Elevation
Date Started: 8/23/2016	Date Completed: 8/23/2016		n/a
Completion Depth: 8 feet	ENVIROTRAC Geologist: Mike Alliegro		

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES Recovery (inches)	SAMPLES PID (ppm)	SOIL DESCRIPTION
SG-222 	0	na	0.0	0'-5' Hand cleared using air-knife.
	5	na	0.0	5'-8' Brown, medium to fine grained SAND, with some gravel and cobbles. Dry; no odor

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

Well Construction Details:

Bottom of Well:	8'
Screen material:	6 inch soil vapor implant
Sand Pack:	#0 FilPro Sand 6.10 - 8 BGS'
Grout:	0'-6.10'
Surface Seal:	Concrete pad with bolt-down manhole

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water

EnviroTrac Environmental Services

APPENDIX D

Hazardous Waste Manifests

2502752 9/8

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(516) 816-4765	28105

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway, 12th Floor
Albany NY 12233
Generator's Phone: 518 402-9814

Generator's Site Address (if different than mailing address)
NYSDEC
18 Division Place
Brooklyn NY 11222

6. Transporter 1 Company Name
Metro Environmental Contracting Corp.
U.S. EPA ID Number: NYR000134957

RECEIVED
OCT 03 2016
BY:

7. Transporter 2 Company Name
Republic Environmental Systems (Trans Group)LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Non-DOT Regulated (Drill Cuttings/Asphalt/Rock)	1	DM	600	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
9.1) Doc# 795915
190524-16

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Mike Allegro (As Agent for NYS DEC)
Signature:
Month: 8 Day: 23 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Francis McShane
Signature:
Month: 8 Day: 23 Year: 16

Transporter 2 Printed/Typed Name: Ed Boehmer
Signature:
Month: 9 Day: 1 Year: 16

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: MALVIN DUTTON
Signature:
Month: 09 Day: 08 Year: 16

169-BLC-O 6 1[illegible] (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

Stericycle Environmental Solutions

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed and treated in complaince with all applicable Federal and State Laws and Regulations.

Generator: 510580 - NYSDEC
18 DIVISION PLACE
BROOKLYN NY, 11222
EPA ID: CESQG

Facility: REPUBLIC ENV SYS (PA) LLC
2869 SANDSTONE DRIVE
HATFIELD PA, 19440
EPA ID: PAD085690592

Manifest #: 28105
Waste Receipt #: HAT-6096F
Date Received: 09/08/2016

Line	Profile	Material Description	Treatment/ Disposal Description
1	795915-00	NON-REGULATED MATERIAL (DRILL CUTTINGS)	H141 STORAGE, BULKING, AND/OR TRANSFER OFF-SITE - NO TREATMENT/RECOVERY/BLENDING

Name: Norma Figueroa

Signature: Norma Figueroa

Title : Document Specialist

APPENDIX E

Laboratory Results

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 140-5720-1

Job Description: Former Goodman Brothers #224211

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, NY 12233-7017

Attention: David Harrington



Approved for release.
Jamie A McKinney
Senior Project Manager
9/9/2016 9:40 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
09/09/2016

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.

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Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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
140-5720-1

Comments
No additional comments.

Receipt
The samples were received on 8/26/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Receipt Exceptions

This sample is in Canister ID 10282; the sample and container were matched by the sample times and Sample ID.

The client modified a sample ID after the samples were received.

Air - GC/MS VOA
Method(s) D1946, 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: The following sample was diluted due to the abundance of non-target analytes: SG-217 (140-5720-8). Elevated reporting limits (RLs) are provided.

Method(s) TO 15 LL: Although the (BFB 140-6440/1) is flagged as outside control limits for TO-14A on batch 140-6440, the results are within limits for TO-15, which is required for this project.

Method(s) TO 15 LL, TO-15: Although (BFB 140-6493/1) is flagged as outside control limits for TO-14A on batch 140-6493, the results are within limits for TO-15, which is required for this project.

Method(s) TO 15 LL: There is a significant contribution from an interfering non-target analyte to the quantitation of 4-Methyl-2-pentanone (MIBK) in sample SG-220 (140-5720-12). Therefore, the 4-Methyl-2-pentanone (MIBK) results are biased high and should be considered estimated. The result is flagged with “cn”.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Client Sample ID: SG-215 — Lab Sample ID: 140-5720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.8		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
1,4-Dichlorobenzene	18		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
2-Butanone	12		1.8		ppb v/v	1.65		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	1.5		1.1		ppb v/v	1.65		TO 15 LL	Total/NA
Benzene	2.5		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
Bromodichloromethane	0.44		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
Chloroform	5.8		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.44		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
Ethanol	11		11		ppb v/v	1.65		TO 15 LL	Total/NA
Ethylbenzene	1.1		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
Hexane	8.2		1.1		ppb v/v	1.65		TO 15 LL	Total/NA
m-Xylene & p-Xylene	3.9		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
o-Xylene	1.9		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
t-Butyl alcohol	2.0		1.8		ppb v/v	1.65		TO 15 LL	Total/NA
Tetrachloroethene	2.6		0.44		ppb v/v	1.65		TO 15 LL	Total/NA
Toluene	4.3		0.66		ppb v/v	1.65		TO 15 LL	Total/NA
Trichlorofluoromethane	2.9		0.44		ppb v/v	1.65		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	8.9		2.2		ug/m3	1.65		TO 15 LL	Total/NA
1,4-Dichlorobenzene	110		2.6		ug/m3	1.65		TO 15 LL	Total/NA
2-Butanone	36		5.2		ug/m3	1.65		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	6.0		4.5		ug/m3	1.65		TO 15 LL	Total/NA
Benzene	8.1		1.4		ug/m3	1.65		TO 15 LL	Total/NA
Bromodichloromethane	3.0		2.9		ug/m3	1.65		TO 15 LL	Total/NA
Chloroform	28		2.1		ug/m3	1.65		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.2		2.2		ug/m3	1.65		TO 15 LL	Total/NA
Ethanol	20		21		ug/m3	1.65		TO 15 LL	Total/NA
Ethylbenzene	4.7		1.9		ug/m3	1.65		TO 15 LL	Total/NA
Hexane	29		3.9		ug/m3	1.65		TO 15 LL	Total/NA
m-Xylene & p-Xylene	17		1.9		ug/m3	1.65		TO 15 LL	Total/NA
o-Xylene	8.2		1.9		ug/m3	1.65		TO 15 LL	Total/NA
t-Butyl alcohol	6.0		5.3		ug/m3	1.65		TO 15 LL	Total/NA
Tetrachloroethene	17		3.0		ug/m3	1.65		TO 15 LL	Total/NA
Toluene	16		2.5		ug/m3	1.65		TO 15 LL	Total/NA
Trichlorofluoromethane	16		2.5		ug/m3	1.65		TO 15 LL	Total/NA

Client Sample ID: SG-214 — Lab Sample ID: 140-5720-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.1		0.40		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.54		0.40		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	23		0.40		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	12		1.6		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	8.9		1.0		ppb v/v	1		TO 15 LL	Total/NA
Benzene	4.0		0.40		ppb v/v	1		TO 15 LL	Total/NA
Bromodichloromethane	0.72		0.40		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	3.5		0.40		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.45		0.40		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	1.4		0.40		ppb v/v	1		TO 15 LL	Total/NA
Hexane	6.2		1.0		ppb v/v	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-214 (Continued)

Lab Sample ID: 140-5720-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	4.7		0.40		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	2.2		0.40		ppb v/v	1		TO 15 LL	Total/NA
t-Butyl alcohol	1.9		1.6		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	0.65		0.40		ppb v/v	1		TO 15 LL	Total/NA
Toluene	6.1		0.60		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	2.6		0.40		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	11		2.0		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	2.7		2.0		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	140		2.4		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	36		4.7		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	37		4.1		ug/m3	1		TO 15 LL	Total/NA
Benzene	13		1.3		ug/m3	1		TO 15 LL	Total/NA
Bromodichloromethane	4.8		2.7		ug/m3	1		TO 15 LL	Total/NA
Chloroform	17		2.0		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.2		2.0		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	5.9		1.7		ug/m3	1		TO 15 LL	Total/NA
Hexane	22		3.5		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	20		1.7		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	9.5		1.7		ug/m3	1		TO 15 LL	Total/NA
t-Butyl alcohol	5.7		4.9		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	4.4		2.7		ug/m3	1		TO 15 LL	Total/NA
Toluene	23		2.3		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	15		2.2		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: SG-212

Lab Sample ID: 140-5720-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.95		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.5		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.36		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
1,4-Dichlorobenzene	17		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
2-Butanone	15		1.3		ppb v/v	1.57		TO 15 LL	Total/NA
Benzene	0.42		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
Chloroform	3.2		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.38		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
Ethylbenzene	0.59		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
Hexane	1.2		0.79		ppb v/v	1.57		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.5		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
o-Xylene	1.2		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
t-Butyl alcohol	2.4		1.3		ppb v/v	1.57		TO 15 LL	Total/NA
Tetrachloroethene	3.1		0.31		ppb v/v	1.57		TO 15 LL	Total/NA
Toluene	2.1		0.47		ppb v/v	1.57		TO 15 LL	Total/NA
Trichlorofluoromethane	0.50		0.31		ppb v/v	1.57		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.2		1.7		ug/m3	1.57		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	7.5		1.5		ug/m3	1.57		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.7		1.5		ug/m3	1.57		TO 15 LL	Total/NA
1,4-Dichlorobenzene	100		1.9		ug/m3	1.57		TO 15 LL	Total/NA
2-Butanone	44		3.7		ug/m3	1.57		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-212 (Continued) — Lab Sample ID: 140-5720-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		1.0		ug/m3	1.57		TO 15 LL	Total/NA
Chloroform	16		1.5		ug/m3	1.57		TO 15 LL	Total/NA
Dichlorodifluoromethane	1.9		1.6		ug/m3	1.57		TO 15 LL	Total/NA
Ethylbenzene	2.6		1.4		ug/m3	1.57		TO 15 LL	Total/NA
Hexane	4.2		2.8		ug/m3	1.57		TO 15 LL	Total/NA
m-Xylene & p-Xylene	11		1.4		ug/m3	1.57		TO 15 LL	Total/NA
o-Xylene	5.3		1.4		ug/m3	1.57		TO 15 LL	Total/NA
t-Butyl alcohol	7.4		3.8		ug/m3	1.57		TO 15 LL	Total/NA
Tetrachloroethene	21		2.1		ug/m3	1.57		TO 15 LL	Total/NA
Toluene	8.0		1.8		ug/m3	1.57		TO 15 LL	Total/NA
Trichlorofluoromethane	2.8		1.8		ug/m3	1.57		TO 15 LL	Total/NA

Client Sample ID: SG-212 B — Lab Sample ID: 140-5720-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.97		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.7		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.38		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
1,4-Dichlorobenzene	19		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
2-Butanone	16		1.1		ppb v/v	1.42		TO 15 LL	Total/NA
Benzene	0.43		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
Bromodichloromethane	0.28		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
Chloroform	3.2		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.36		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
Ethanol	12		7.1		ppb v/v	1.42		TO 15 LL	Total/NA
Ethylbenzene	0.65		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
Hexane	1.3		0.71		ppb v/v	1.42		TO 15 LL	Total/NA
Methylene Chloride	1.1		0.71		ppb v/v	1.42		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.7		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
o-Xylene	1.3		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
t-Butyl alcohol	2.1		1.1		ppb v/v	1.42		TO 15 LL	Total/NA
Tetrachloroethene	3.2		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
Toluene	2.3		0.43		ppb v/v	1.42		TO 15 LL	Total/NA
Trichlorofluoromethane	0.56		0.28		ppb v/v	1.42		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.3		1.5		ug/m3	1.42		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	8.2		1.4		ug/m3	1.42		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.9		1.4		ug/m3	1.42		TO 15 LL	Total/NA
1,4-Dichlorobenzene	110		1.7		ug/m3	1.42		TO 15 LL	Total/NA
2-Butanone	48		3.4		ug/m3	1.42		TO 15 LL	Total/NA
Benzene	1.4		0.91		ug/m3	1.42		TO 15 LL	Total/NA
Bromodichloromethane	1.8		1.9		ug/m3	1.42		TO 15 LL	Total/NA
Chloroform	16		1.4		ug/m3	1.42		TO 15 LL	Total/NA
Dichlorodifluoromethane	1.8		1.4		ug/m3	1.42		TO 15 LL	Total/NA
Ethanol	22		13		ug/m3	1.42		TO 15 LL	Total/NA
Ethylbenzene	2.8		1.2		ug/m3	1.42		TO 15 LL	Total/NA
Hexane	4.6		2.5		ug/m3	1.42		TO 15 LL	Total/NA
Methylene Chloride	3.8		2.5		ug/m3	1.42		TO 15 LL	Total/NA
m-Xylene & p-Xylene	12		1.2		ug/m3	1.42		TO 15 LL	Total/NA
o-Xylene	5.6		1.2		ug/m3	1.42		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-212 B (Continued) — Lab Sample ID: 140-5720-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Butyl alcohol	6.4		3.4		ug/m3	1.42		TO 15 LL	Total/NA
Tetrachloroethene	22		1.9		ug/m3	1.42		TO 15 LL	Total/NA
Toluene	8.6		1.6		ug/m3	1.42		TO 15 LL	Total/NA
Trichlorofluoromethane	3.1		1.6		ug/m3	1.42		TO 15 LL	Total/NA

Client Sample ID: SG-211 — Lab Sample ID: 140-5720-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.3		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	2.9		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	2.2		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.61		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
1,4-Dichlorobenzene	16		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
2-Butanone	27		1.3		ppb v/v	1.61		TO 15 LL	Total/NA
Benzene	2.9		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Bromodichloromethane	0.46		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Chloroethane	0.33		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Chloroform	6.8		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Chloromethane	1.1		0.81		ppb v/v	1.61		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.53		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Ethylbenzene	1.2		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Hexane	4.8		0.81		ppb v/v	1.61		TO 15 LL	Total/NA
Methylene Chloride	1.2		0.81		ppb v/v	1.61		TO 15 LL	Total/NA
m-Xylene & p-Xylene	4.7		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
o-Xylene	2.1		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Styrene	0.41		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
t-Butyl alcohol	4.0		1.3		ppb v/v	1.61		TO 15 LL	Total/NA
Tetrachloroethene	2.7		0.32		ppb v/v	1.61		TO 15 LL	Total/NA
Toluene	7.3		0.48		ppb v/v	1.61		TO 15 LL	Total/NA
Trichlorofluoromethane	0.53		0.32		ppb v/v	1.61		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	7.1		1.8		ug/m3	1.61		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	22		2.5		ug/m3	1.61		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	11		1.6		ug/m3	1.61		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	3.0		1.6		ug/m3	1.61		TO 15 LL	Total/NA
1,4-Dichlorobenzene	97		1.9		ug/m3	1.61		TO 15 LL	Total/NA
2-Butanone	80		3.8		ug/m3	1.61		TO 15 LL	Total/NA
Benzene	9.2		1.0		ug/m3	1.61		TO 15 LL	Total/NA
Bromodichloromethane	3.1		2.2		ug/m3	1.61		TO 15 LL	Total/NA
Chloroethane	0.88		0.85		ug/m3	1.61		TO 15 LL	Total/NA
Chloroform	33		1.6		ug/m3	1.61		TO 15 LL	Total/NA
Chloromethane	2.3		1.7		ug/m3	1.61		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.6		1.6		ug/m3	1.61		TO 15 LL	Total/NA
Ethylbenzene	5.3		1.4		ug/m3	1.61		TO 15 LL	Total/NA
Hexane	17		2.8		ug/m3	1.61		TO 15 LL	Total/NA
Methylene Chloride	4.2		2.8		ug/m3	1.61		TO 15 LL	Total/NA
m-Xylene & p-Xylene	21		1.4		ug/m3	1.61		TO 15 LL	Total/NA
o-Xylene	9.3		1.4		ug/m3	1.61		TO 15 LL	Total/NA
Styrene	1.8		1.4		ug/m3	1.61		TO 15 LL	Total/NA
t-Butyl alcohol	12		3.9		ug/m3	1.61		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-211 (Continued) — Lab Sample ID: 140-5720-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	18		2.2		ug/m3	1.61		TO 15 LL	Total/NA
Toluene	28		1.8		ug/m3	1.61		TO 15 LL	Total/NA
Trichlorofluoromethane	2.9		1.8		ug/m3	1.61		TO 15 LL	Total/NA

Client Sample ID: SG-213 — Lab Sample ID: 140-5720-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.4		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	0.42		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	2.1		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.58		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
1,4-Dichlorobenzene	2.8		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
2-Butanone	9.2		0.76		ppb v/v	1.42		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	1.0		0.47		ppb v/v	1.42		TO 15 LL	Total/NA
Benzene	3.9		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
Chloroform	1.0		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
Cyclohexane	0.48		0.47		ppb v/v	1.42		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.19		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
Ethylbenzene	1.3		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
Hexane	1.1		0.47		ppb v/v	1.42		TO 15 LL	Total/NA
Methylene Chloride	0.60		0.47		ppb v/v	1.42		TO 15 LL	Total/NA
m-Xylene & p-Xylene	5.3		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
o-Xylene	2.2		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
Styrene	0.44		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
t-Butyl alcohol	0.83		0.76		ppb v/v	1.42		TO 15 LL	Total/NA
Tetrachloroethene	7.6		0.19		ppb v/v	1.42		TO 15 LL	Total/NA
Toluene	5.2		0.28		ppb v/v	1.42		TO 15 LL	Total/NA
Trichlorofluoromethane	1.4		0.19		ppb v/v	1.42		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	7.7		1.0		ug/m3	1.42		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	3.2		1.5		ug/m3	1.42		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	10		0.93		ug/m3	1.42		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	2.8		0.93		ug/m3	1.42		TO 15 LL	Total/NA
1,4-Dichlorobenzene	17		1.1		ug/m3	1.42		TO 15 LL	Total/NA
2-Butanone	27		2.2		ug/m3	1.42		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	4.3		1.9		ug/m3	1.42		TO 15 LL	Total/NA
Benzene	12		0.60		ug/m3	1.42		TO 15 LL	Total/NA
Chloroform	4.9		0.92		ug/m3	1.42		TO 15 LL	Total/NA
Cyclohexane	1.7		1.6		ug/m3	1.42		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.96		0.94		ug/m3	1.42		TO 15 LL	Total/NA
Ethylbenzene	5.6		0.82		ug/m3	1.42		TO 15 LL	Total/NA
Hexane	4.0		1.7		ug/m3	1.42		TO 15 LL	Total/NA
Methylene Chloride	2.1		1.6		ug/m3	1.42		TO 15 LL	Total/NA
m-Xylene & p-Xylene	23		0.82		ug/m3	1.42		TO 15 LL	Total/NA
o-Xylene	9.6		0.82		ug/m3	1.42		TO 15 LL	Total/NA
Styrene	1.9		0.81		ug/m3	1.42		TO 15 LL	Total/NA
t-Butyl alcohol	2.5		2.3		ug/m3	1.42		TO 15 LL	Total/NA
Tetrachloroethene	51		1.3		ug/m3	1.42		TO 15 LL	Total/NA
Toluene	20		1.1		ug/m3	1.42		TO 15 LL	Total/NA
Trichlorofluoromethane	8.1		1.1		ug/m3	1.42		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Client Sample ID: AA-1 — Lab Sample ID: 140-5720-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.22		0.080		ppb v/v	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	0.42		0.20		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	1.0		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	2.1		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.24		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.070		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.96		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.50		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	49		2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.17		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	0.57		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.90		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.54		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.21		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.86		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.32		0.080		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.1		0.39		ug/m3	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	2.0		0.93		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	3.0		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	8.8		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.75		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.44		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	2.0		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.5		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	92		3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	0.72		0.35		ug/m3	1		TO 15 LL	Total/NA
Hexane	2.0		0.70		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	3.1		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.4		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	0.92		0.35		ug/m3	1		TO 15 LL	Total/NA
Toluene	3.2		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.8		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: SG-217 — Lab Sample ID: 140-5720-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.7		1.1		ppb v/v	14.16		TO 15 LL	Total/NA
1,4-Dichlorobenzene	4.7		1.1		ppb v/v	14.16		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	13		2.8		ppb v/v	14.16		TO 15 LL	Total/NA
2-Butanone	10		4.5		ppb v/v	14.16		TO 15 LL	Total/NA
Benzene	17		1.1		ppb v/v	14.16		TO 15 LL	Total/NA
Cyclohexane	13		2.8		ppb v/v	14.16		TO 15 LL	Total/NA
Ethylbenzene	1.1		1.1		ppb v/v	14.16		TO 15 LL	Total/NA
Hexane	15		2.8		ppb v/v	14.16		TO 15 LL	Total/NA
m-Xylene & p-Xylene	4.3		1.1		ppb v/v	14.16		TO 15 LL	Total/NA
o-Xylene	1.8		1.1		ppb v/v	14.16		TO 15 LL	Total/NA
Toluene	5.0		1.7		ppb v/v	14.16		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	8.2		5.6		ug/m3	14.16		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-217 (Continued) — Lab Sample ID: 140-5720-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	28		6.8		ug/m3	14.16		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	63		13		ug/m3	14.16		TO 15 LL	Total/NA
2-Butanone	31		13		ug/m3	14.16		TO 15 LL	Total/NA
Benzene	53		3.6		ug/m3	14.16		TO 15 LL	Total/NA
Cyclohexane	46		9.7		ug/m3	14.16		TO 15 LL	Total/NA
Ethylbenzene	4.9		4.9		ug/m3	14.16		TO 15 LL	Total/NA
Hexane	54		10		ug/m3	14.16		TO 15 LL	Total/NA
m-Xylene & p-Xylene	19		4.9		ug/m3	14.16		TO 15 LL	Total/NA
o-Xylene	7.8		4.9		ug/m3	14.16		TO 15 LL	Total/NA
Toluene	19		6.4		ug/m3	14.16		TO 15 LL	Total/NA

Client Sample ID: SG-218 — Lab Sample ID: 140-5720-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.5		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	1.4		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
1,1-Dichloroethane	1.2		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.7		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
1,4-Dichlorobenzene	15		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Benzene	2.1		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Bromodichloromethane	5.7		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Chloroform	30		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Dibromochloromethane	1.6		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.82		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Ethylbenzene	1.1		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Hexane	4.5		2.0		ppb v/v	1.46		TO 15 LL	Total/NA
m-Xylene & p-Xylene	4.6		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
o-Xylene	1.8		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Tetrachloroethene	34		0.80		ppb v/v	1.46		TO 15 LL	Total/NA
Toluene	5.0		1.2		ppb v/v	1.46		TO 15 LL	Total/NA
Trichloroethene	5.7		0.40		ppb v/v	1.46		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	19		4.4		ug/m3	1.46		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	11		6.1		ug/m3	1.46		TO 15 LL	Total/NA
1,1-Dichloroethane	4.7		3.2		ug/m3	1.46		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	8.5		3.9		ug/m3	1.46		TO 15 LL	Total/NA
1,4-Dichlorobenzene	90		4.8		ug/m3	1.46		TO 15 LL	Total/NA
Benzene	6.8		2.6		ug/m3	1.46		TO 15 LL	Total/NA
Bromodichloromethane	38		5.4		ug/m3	1.46		TO 15 LL	Total/NA
Chloroform	140		3.9		ug/m3	1.46		TO 15 LL	Total/NA
Dibromochloromethane	14		6.8		ug/m3	1.46		TO 15 LL	Total/NA
Dichlorodifluoromethane	4.1		4.0		ug/m3	1.46		TO 15 LL	Total/NA
Ethylbenzene	4.9		3.5		ug/m3	1.46		TO 15 LL	Total/NA
Hexane	16		7.0		ug/m3	1.46		TO 15 LL	Total/NA
m-Xylene & p-Xylene	20		3.5		ug/m3	1.46		TO 15 LL	Total/NA
o-Xylene	7.7		3.5		ug/m3	1.46		TO 15 LL	Total/NA
Tetrachloroethene	230		5.4		ug/m3	1.46		TO 15 LL	Total/NA
Toluene	19		4.5		ug/m3	1.46		TO 15 LL	Total/NA
Trichloroethene	31		2.1		ug/m3	1.46		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Client Sample ID: SG-216 — Lab Sample ID: 140-5720-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.5		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
1,1-Dichloroethane	0.99		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	2.1		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
1,4-Dichlorobenzene	18		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Benzene	1.7		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Bromodichloromethane	5.9		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Chloroform	30		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Dibromochloromethane	2.0		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Ethylbenzene	1.3		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Hexane	3.0		1.6		ppb v/v	4.65		TO 15 LL	Total/NA
m-Xylene & p-Xylene	5.2		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
o-Xylene	2.0		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Tetrachloroethene	65		0.62		ppb v/v	4.65		TO 15 LL	Total/NA
Toluene	5.4		0.93		ppb v/v	4.65		TO 15 LL	Total/NA
Trichloroethene	12		0.31		ppb v/v	4.65		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	35		3.4		ug/m3	4.65		TO 15 LL	Total/NA
1,1-Dichloroethane	4.0		2.5		ug/m3	4.65		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	10		3.0		ug/m3	4.65		TO 15 LL	Total/NA
1,4-Dichlorobenzene	110		3.7		ug/m3	4.65		TO 15 LL	Total/NA
Benzene	5.5		2.0		ug/m3	4.65		TO 15 LL	Total/NA
Bromodichloromethane	39		4.2		ug/m3	4.65		TO 15 LL	Total/NA
Chloroform	150		3.0		ug/m3	4.65		TO 15 LL	Total/NA
Dibromochloromethane	17		5.3		ug/m3	4.65		TO 15 LL	Total/NA
Ethylbenzene	5.6		2.7		ug/m3	4.65		TO 15 LL	Total/NA
Hexane	11		5.5		ug/m3	4.65		TO 15 LL	Total/NA
m-Xylene & p-Xylene	22		2.7		ug/m3	4.65		TO 15 LL	Total/NA
o-Xylene	8.8		2.7		ug/m3	4.65		TO 15 LL	Total/NA
Tetrachloroethene	440		4.2		ug/m3	4.65		TO 15 LL	Total/NA
Toluene	20		3.5		ug/m3	4.65		TO 15 LL	Total/NA
Trichloroethene	65		1.7		ug/m3	4.65		TO 15 LL	Total/NA

Client Sample ID: SG-219 — Lab Sample ID: 140-5720-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	12		3.9		ppb v/v	14.47		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	440		9.6		ppb v/v	14.47		TO 15 LL	Total/NA
Cyclohexane	170		9.6		ppb v/v	14.47		TO 15 LL	Total/NA
Hexane	260		9.6		ppb v/v	14.47		TO 15 LL	Total/NA
m-Xylene & p-Xylene	8.3		3.9		ppb v/v	14.47		TO 15 LL	Total/NA
Toluene	6.2		5.8		ppb v/v	14.47		TO 15 LL	Total/NA
Vinyl chloride	18		1.9		ppb v/v	14.47		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	75		23		ug/m3	14.47		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	2100		45		ug/m3	14.47		TO 15 LL	Total/NA
Cyclohexane	570		33		ug/m3	14.47		TO 15 LL	Total/NA
Hexane	920		34		ug/m3	14.47		TO 15 LL	Total/NA
m-Xylene & p-Xylene	36		17		ug/m3	14.47		TO 15 LL	Total/NA
Toluene	23		22		ug/m3	14.47		TO 15 LL	Total/NA
Vinyl chloride	45		4.9		ug/m3	14.47		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Client Sample ID: SG-220

Lab Sample ID: 140-5720-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.2		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	0.73		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
1,1-Dichloroethane	1.2		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	2.8		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.94		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
1,4-Dichlorobenzene	18		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
2-Butanone	9.4		1.6		ppb v/v	1.47		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	1.2	cn	0.98		ppb v/v	1.47		TO 15 LL	Total/NA
Benzene	2.1		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Bromodichloromethane	8.1		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Chloroform	27		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Cyclohexane	1.3		0.98		ppb v/v	1.47		TO 15 LL	Total/NA
Dibromochloromethane	2.9		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.46		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Ethanol	11		9.8		ppb v/v	1.47		TO 15 LL	Total/NA
Ethylbenzene	1.7		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Hexane	4.2		0.98		ppb v/v	1.47		TO 15 LL	Total/NA
Methylene Chloride	4.2		0.98		ppb v/v	1.47		TO 15 LL	Total/NA
m-Xylene & p-Xylene	6.6		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
o-Xylene	2.7		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Styrene	0.61		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
t-Butyl alcohol	2.5		1.6		ppb v/v	1.47		TO 15 LL	Total/NA
Tetrachloroethene	33		0.39		ppb v/v	1.47		TO 15 LL	Total/NA
Toluene	7.5		0.59		ppb v/v	1.47		TO 15 LL	Total/NA
Trichloroethene	2.4		0.20		ppb v/v	1.47		TO 15 LL	Total/NA
Trichlorofluoromethane	0.75		0.39		ppb v/v	1.47		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	23		2.1		ug/m3	1.47		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane	5.6		3.0		ug/m3	1.47		TO 15 LL	Total/NA
1,1-Dichloroethane	4.8		1.6		ug/m3	1.47		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	14		1.9		ug/m3	1.47		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	4.6		1.9		ug/m3	1.47		TO 15 LL	Total/NA
1,4-Dichlorobenzene	110		2.4		ug/m3	1.47		TO 15 LL	Total/NA
2-Butanone	28		4.6		ug/m3	1.47		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	5.0	cn	4.0		ug/m3	1.47		TO 15 LL	Total/NA
Benzene	6.7		1.3		ug/m3	1.47		TO 15 LL	Total/NA
Bromodichloromethane	54		2.6		ug/m3	1.47		TO 15 LL	Total/NA
Chloroform	130		1.9		ug/m3	1.47		TO 15 LL	Total/NA
Cyclohexane	4.5		3.4		ug/m3	1.47		TO 15 LL	Total/NA
Dibromochloromethane	25		3.3		ug/m3	1.47		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.3		1.9		ug/m3	1.47		TO 15 LL	Total/NA
Ethanol	20		18		ug/m3	1.47		TO 15 LL	Total/NA
Ethylbenzene	7.3		1.7		ug/m3	1.47		TO 15 LL	Total/NA
Hexane	15		3.5		ug/m3	1.47		TO 15 LL	Total/NA
Methylene Chloride	15		3.4		ug/m3	1.47		TO 15 LL	Total/NA
m-Xylene & p-Xylene	29		1.7		ug/m3	1.47		TO 15 LL	Total/NA
o-Xylene	12		1.7		ug/m3	1.47		TO 15 LL	Total/NA
Styrene	2.6		1.7		ug/m3	1.47		TO 15 LL	Total/NA
t-Butyl alcohol	7.6		4.8		ug/m3	1.47		TO 15 LL	Total/NA
Tetrachloroethene	220		2.7		ug/m3	1.47		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-220 (Continued)

Lab Sample ID: 140-5720-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	28		2.2		ug/m3	1.47		TO 15 LL	Total/NA
Trichloroethene	13		1.1		ug/m3	1.47		TO 15 LL	Total/NA
Trichlorofluoromethane	4.2		2.2		ug/m3	1.47		TO 15 LL	Total/NA

Client Sample ID: SG-222

Lab Sample ID: 140-5720-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	750	E	3.0		ppb v/v	1.51		TO 15 LL	Total/NA
1,4-Dichlorobenzene	11		3.0		ppb v/v	1.51		TO 15 LL	Total/NA
Tetrachloroethene	120		3.0		ppb v/v	1.51		TO 15 LL	Total/NA
Toluene	4.5		4.5		ppb v/v	1.51		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	570	D	5.5		ppb v/v	1.51		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	5700	E	23		ug/m3	1.51		TO 15 LL	Total/NA
1,4-Dichlorobenzene	63		18		ug/m3	1.51		TO 15 LL	Total/NA
Tetrachloroethene	830		20		ug/m3	1.51		TO 15 LL	Total/NA
Toluene	17		17		ug/m3	1.51		TO 15 LL	Total/NA
1,1,2-Trichlorotrifluoroethane - DL	4400	D	42		ug/m3	1.51		TO 15 LL	Total/NA

Client Sample ID: SG-221

Lab Sample ID: 140-5720-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	8000		52		ppb v/v	25.98		TO 15 LL	Total/NA
Tetrachloroethene	150		52		ppb v/v	25.98		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	62000		400		ug/m3	25.98		TO 15 LL	Total/NA
Tetrachloroethene	1000		350		ug/m3	25.98		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SG-215

Date Collected: 08/24/16 11:55
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-1

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,1,2,2-Tetrachloroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,1,2-Trichloroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,1,2-Trichlorotrifluoroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,1-Dichloroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,1-Dichloroethene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,2,4-Trichlorobenzene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,2,4-Trimethylbenzene	**1.8**		0.44		ppb v/v			09/01/16 12:54	1.65
1,2-Dibromoethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,2-Dichlorobenzene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,2-Dichloroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,2-Dichloropropane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,2-Dichlorotetrafluoroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,3,5-Trimethylbenzene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,3-Dichlorobenzene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
1,4-Dichlorobenzene	**18**		0.44		ppb v/v			09/01/16 12:54	1.65
1,4-Dioxane	ND		1.1		ppb v/v			09/01/16 12:54	1.65
2,2,4-Trimethylpentane	ND		1.1		ppb v/v			09/01/16 12:54	1.65
2-Butanone	**12**		1.8		ppb v/v			09/01/16 12:54	1.65
4-Methyl-2-pentanone (MIBK)	**1.5**		1.1		ppb v/v			09/01/16 12:54	1.65
Benzene	**2.5**		0.44		ppb v/v			09/01/16 12:54	1.65
Benzyl chloride	ND		0.88		ppb v/v			09/01/16 12:54	1.65
Bromodichloromethane	**0.44**		0.44		ppb v/v			09/01/16 12:54	1.65
Bromoform	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Bromomethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Carbon tetrachloride	ND		0.22		ppb v/v			09/01/16 12:54	1.65
Chlorobenzene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Chloroethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Chloroform	**5.8**		0.44		ppb v/v			09/01/16 12:54	1.65
Chloromethane	ND		1.1		ppb v/v			09/01/16 12:54	1.65
cis-1,2-Dichloroethene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
cis-1,3-Dichloropropene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Cyclohexane	ND		1.1		ppb v/v			09/01/16 12:54	1.65
Dibromochloromethane	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Dichlorodifluoromethane	**0.44**		0.44		ppb v/v			09/01/16 12:54	1.65
Ethanol	**11**		11		ppb v/v			09/01/16 12:54	1.65
Ethylbenzene	**1.1**		0.44		ppb v/v			09/01/16 12:54	1.65
Hexachlorobutadiene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Hexane	**8.2**		1.1		ppb v/v			09/01/16 12:54	1.65
Methyl tert-butyl ether	ND		0.88		ppb v/v			09/01/16 12:54	1.65
Methylene Chloride	ND		1.1		ppb v/v			09/01/16 12:54	1.65
m-Xylene & p-Xylene	**3.9**		0.44		ppb v/v			09/01/16 12:54	1.65
o-Xylene	**1.9**		0.44		ppb v/v			09/01/16 12:54	1.65
Styrene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
t-Butyl alcohol	**2.0**		1.8		ppb v/v			09/01/16 12:54	1.65
Tetrachloroethene	**2.6**		0.44		ppb v/v			09/01/16 12:54	1.65
Toluene	**4.3**		0.66		ppb v/v			09/01/16 12:54	1.65
trans-1,2-Dichloroethene	ND		0.44		ppb v/v			09/01/16 12:54	1.65

Client Sample ID: SG-215

Date Collected: 08/24/16 11:55
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-1

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.44		ppb v/v			09/01/16 12:54	1.65
Trichloroethene	ND		0.22		ppb v/v			09/01/16 12:54	1.65
Trichlorofluoromethane	**2.9**		0.44		ppb v/v			09/01/16 12:54	1.65
Vinyl chloride	ND		0.22		ppb v/v			09/01/16 12:54	1.65

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.4		ug/m3			09/01/16 12:54	1.65
1,1,2,2-Tetrachloroethane	ND		3.0		ug/m3			09/01/16 12:54	1.65
1,1,2-Trichloroethane	ND		2.4		ug/m3			09/01/16 12:54	1.65
1,1,2-Trichlorotrifluoroethane	ND		3.4		ug/m3			09/01/16 12:54	1.65
1,1-Dichloroethane	ND		1.8		ug/m3			09/01/16 12:54	1.65
1,1-Dichloroethene	ND		1.7		ug/m3			09/01/16 12:54	1.65
1,2,4-Trichlorobenzene	ND		3.3		ug/m3			09/01/16 12:54	1.65
1,2,4-Trimethylbenzene	**8.9**		2.2		ug/m3			09/01/16 12:54	1.65
1,2-Dibromoethane	ND		3.4		ug/m3			09/01/16 12:54	1.65
1,2-Dichlorobenzene	ND		2.6		ug/m3			09/01/16 12:54	1.65
1,2-Dichloroethane	ND		1.8		ug/m3			09/01/16 12:54	1.65
1,2-Dichloropropane	ND		2.0		ug/m3			09/01/16 12:54	1.65
1,2-Dichlorotetrafluoroethane	ND		3.1		ug/m3			09/01/16 12:54	1.65
1,3,5-Trimethylbenzene	ND		2.2		ug/m3			09/01/16 12:54	1.65
1,3-Dichlorobenzene	ND		2.6		ug/m3			09/01/16 12:54	1.65
1,4-Dichlorobenzene	**110**		2.6		ug/m3			09/01/16 12:54	1.65
1,4-Dioxane	ND		4.0		ug/m3			09/01/16 12:54	1.65
2,2,4-Trimethylpentane	ND		5.1		ug/m3			09/01/16 12:54	1.65
2-Butanone	**36**		5.2		ug/m3			09/01/16 12:54	1.65
4-Methyl-2-pentanone (MIBK)	**6.0**		4.5		ug/m3			09/01/16 12:54	1.65
Benzene	**8.1**		1.4		ug/m3			09/01/16 12:54	1.65
Benzyl chloride	ND		4.6		ug/m3			09/01/16 12:54	1.65
Bromodichloromethane	**3.0**		2.9		ug/m3			09/01/16 12:54	1.65
Bromoform	ND		4.5		ug/m3			09/01/16 12:54	1.65
Bromomethane	ND		1.7		ug/m3			09/01/16 12:54	1.65
Carbon tetrachloride	ND		1.4		ug/m3			09/01/16 12:54	1.65
Chlorobenzene	ND		2.0		ug/m3			09/01/16 12:54	1.65
Chloroethane	ND		1.2		ug/m3			09/01/16 12:54	1.65
Chloroform	**28**		2.1		ug/m3			09/01/16 12:54	1.65
Chloromethane	ND		2.3		ug/m3			09/01/16 12:54	1.65
cis-1,2-Dichloroethene	ND		1.7		ug/m3			09/01/16 12:54	1.65
cis-1,3-Dichloropropene	ND		2.0		ug/m3			09/01/16 12:54	1.65
Cyclohexane	ND		3.8		ug/m3			09/01/16 12:54	1.65
Dibromochloromethane	ND		3.7		ug/m3			09/01/16 12:54	1.65
Dichlorodifluoromethane	**2.2**		2.2		ug/m3			09/01/16 12:54	1.65
Ethanol	**20**		21		ug/m3			09/01/16 12:54	1.65
Ethylbenzene	**4.7**		1.9		ug/m3			09/01/16 12:54	1.65
Hexachlorobutadiene	ND		4.7		ug/m3			09/01/16 12:54	1.65
Hexane	**29**		3.9		ug/m3			09/01/16 12:54	1.65
Methyl tert-butyl ether	ND		3.2		ug/m3			09/01/16 12:54	1.65
Methylene Chloride	ND		3.8		ug/m3			09/01/16 12:54	1.65
m-Xylene & p-Xylene	**17**		1.9		ug/m3			09/01/16 12:54	1.65
o-Xylene	**8.2**		1.9		ug/m3			09/01/16 12:54	1.65

Client Sample ID: SG-215

Lab Sample ID: 140-5720-1

Date Collected: 08/24/16 11:55
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.9		ug/m3			09/01/16 12:54	1.65
t-Butyl alcohol	**6.0**		5.3		ug/m3			09/01/16 12:54	1.65
Tetrachloroethene	**17**		3.0		ug/m3			09/01/16 12:54	1.65
Toluene	**16**		2.5		ug/m3			09/01/16 12:54	1.65
trans-1,2-Dichloroethene	ND		1.7		ug/m3			09/01/16 12:54	1.65
trans-1,3-Dichloropropene	ND		2.0		ug/m3			09/01/16 12:54	1.65
Trichloroethene	ND		1.2		ug/m3			09/01/16 12:54	1.65
Trichlorofluoromethane	**16**		2.5		ug/m3			09/01/16 12:54	1.65
Vinyl chloride	ND		0.56		ug/m3			09/01/16 12:54	1.65

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*60 - 140*		*09/01/16 12:54*	*1.65*

Client Sample ID: SG-214

Lab Sample ID: 140-5720-2

Date Collected: 08/24/16 11:57
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,1,2-Trichlorotrifluoroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,1-Dichloroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,1-Dichloroethene	ND		0.40		ppb v/v			09/01/16 13:38	1
1,2,4-Trichlorobenzene	ND		0.40		ppb v/v			09/01/16 13:38	1
1,2,4-Trimethylbenzene	**2.1**		0.40		ppb v/v			09/01/16 13:38	1
1,2-Dibromoethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			09/01/16 13:38	1
1,2-Dichloroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,2-Dichloropropane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,2-Dichlorotetrafluoroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
1,3,5-Trimethylbenzene	**0.54**		0.40		ppb v/v			09/01/16 13:38	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			09/01/16 13:38	1
1,4-Dichlorobenzene	**23**		0.40		ppb v/v			09/01/16 13:38	1
1,4-Dioxane	ND		1.0		ppb v/v			09/01/16 13:38	1
2,2,4-Trimethylpentane	ND		1.0		ppb v/v			09/01/16 13:38	1
2-Butanone	**12**		1.6		ppb v/v			09/01/16 13:38	1
4-Methyl-2-pentanone (MIBK)	**8.9**		1.0		ppb v/v			09/01/16 13:38	1
Benzene	**4.0**		0.40		ppb v/v			09/01/16 13:38	1
Benzyl chloride	ND		0.80		ppb v/v			09/01/16 13:38	1
Bromodichloromethane	**0.72**		0.40		ppb v/v			09/01/16 13:38	1
Bromoform	ND		0.40		ppb v/v			09/01/16 13:38	1
Bromomethane	ND		0.40		ppb v/v			09/01/16 13:38	1
Carbon tetrachloride	ND		0.20		ppb v/v			09/01/16 13:38	1
Chlorobenzene	ND		0.40		ppb v/v			09/01/16 13:38	1
Chloroethane	ND		0.40		ppb v/v			09/01/16 13:38	1
Chloroform	**3.5**		0.40		ppb v/v			09/01/16 13:38	1

Client Sample ID: SG-214

Date Collected: 08/24/16 11:57
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-2

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ppb v/v			09/01/16 13:38	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			09/01/16 13:38	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			09/01/16 13:38	1
Cyclohexane	ND		1.0		ppb v/v			09/01/16 13:38	1
Dibromochloromethane	ND		0.40		ppb v/v			09/01/16 13:38	1
Dichlorodifluoromethane	**0.45**		0.40		ppb v/v			09/01/16 13:38	1
Ethanol	ND		10		ppb v/v			09/01/16 13:38	1
Ethylbenzene	**1.4**		0.40		ppb v/v			09/01/16 13:38	1
Hexachlorobutadiene	ND		0.40		ppb v/v			09/01/16 13:38	1
Hexane	**6.2**		1.0		ppb v/v			09/01/16 13:38	1
Methyl tert-butyl ether	ND		0.80		ppb v/v			09/01/16 13:38	1
Methylene Chloride	ND		1.0		ppb v/v			09/01/16 13:38	1
m-Xylene & p-Xylene	**4.7**		0.40		ppb v/v			09/01/16 13:38	1
o-Xylene	**2.2**		0.40		ppb v/v			09/01/16 13:38	1
Styrene	ND		0.40		ppb v/v			09/01/16 13:38	1
t-Butyl alcohol	**1.9**		1.6		ppb v/v			09/01/16 13:38	1
Tetrachloroethene	**0.65**		0.40		ppb v/v			09/01/16 13:38	1
Toluene	**6.1**		0.60		ppb v/v			09/01/16 13:38	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			09/01/16 13:38	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			09/01/16 13:38	1
Trichloroethene	ND		0.20		ppb v/v			09/01/16 13:38	1
Trichlorofluoromethane	**2.6**		0.40		ppb v/v			09/01/16 13:38	1
Vinyl chloride	ND		0.20		ppb v/v			09/01/16 13:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.2		ug/m3			09/01/16 13:38	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			09/01/16 13:38	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			09/01/16 13:38	1
1,1,2-Trichlorotrifluoroethane	ND		3.1		ug/m3			09/01/16 13:38	1
1,1-Dichloroethane	ND		1.6		ug/m3			09/01/16 13:38	1
1,1-Dichloroethene	ND		1.6		ug/m3			09/01/16 13:38	1
1,2,4-Trichlorobenzene	ND		3.0		ug/m3			09/01/16 13:38	1
1,2,4-Trimethylbenzene	**11**		2.0		ug/m3			09/01/16 13:38	1
1,2-Dibromoethane	ND		3.1		ug/m3			09/01/16 13:38	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			09/01/16 13:38	1
1,2-Dichloroethane	ND		1.6		ug/m3			09/01/16 13:38	1
1,2-Dichloropropane	ND		1.8		ug/m3			09/01/16 13:38	1
1,2-Dichlorotetrafluoroethane	ND		2.8		ug/m3			09/01/16 13:38	1
1,3,5-Trimethylbenzene	**2.7**		2.0		ug/m3			09/01/16 13:38	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			09/01/16 13:38	1
1,4-Dichlorobenzene	**140**		2.4		ug/m3			09/01/16 13:38	1
1,4-Dioxane	ND		3.6		ug/m3			09/01/16 13:38	1
2,2,4-Trimethylpentane	ND		4.7		ug/m3			09/01/16 13:38	1
2-Butanone	**36**		4.7		ug/m3			09/01/16 13:38	1
4-Methyl-2-pentanone (MIBK)	**37**		4.1		ug/m3			09/01/16 13:38	1
Benzene	**13**		1.3		ug/m3			09/01/16 13:38	1
Benzyl chloride	ND		4.1		ug/m3			09/01/16 13:38	1
Bromodichloromethane	**4.8**		2.7		ug/m3			09/01/16 13:38	1
Bromoform	ND		4.1		ug/m3			09/01/16 13:38	1

Client Sample ID: SG-214

Date Collected: 08/24/16 11:57
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-2

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.6		ug/m3			09/01/16 13:38	1
Carbon tetrachloride	ND		1.3		ug/m3			09/01/16 13:38	1
Chlorobenzene	ND		1.8		ug/m3			09/01/16 13:38	1
Chloroethane	ND		1.1		ug/m3			09/01/16 13:38	1
Chloroform	**17**		2.0		ug/m3			09/01/16 13:38	1
Chloromethane	ND		2.1		ug/m3			09/01/16 13:38	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			09/01/16 13:38	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			09/01/16 13:38	1
Cyclohexane	ND		3.4		ug/m3			09/01/16 13:38	1
Dibromochloromethane	ND		3.4		ug/m3			09/01/16 13:38	1
Dichlorodifluoromethane	**2.2**		2.0		ug/m3			09/01/16 13:38	1
Ethanol	ND		19		ug/m3			09/01/16 13:38	1
Ethylbenzene	**5.9**		1.7		ug/m3			09/01/16 13:38	1
Hexachlorobutadiene	ND		4.3		ug/m3			09/01/16 13:38	1
Hexane	**22**		3.5		ug/m3			09/01/16 13:38	1
Methyl tert-butyl ether	ND		2.9		ug/m3			09/01/16 13:38	1
Methylene Chloride	ND		3.5		ug/m3			09/01/16 13:38	1
m-Xylene & p-Xylene	**20**		1.7		ug/m3			09/01/16 13:38	1
o-Xylene	**9.5**		1.7		ug/m3			09/01/16 13:38	1
Styrene	ND		1.7		ug/m3			09/01/16 13:38	1
t-Butyl alcohol	**5.7**		4.9		ug/m3			09/01/16 13:38	1
Tetrachloroethene	**4.4**		2.7		ug/m3			09/01/16 13:38	1
Toluene	**23**		2.3		ug/m3			09/01/16 13:38	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			09/01/16 13:38	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			09/01/16 13:38	1
Trichloroethene	ND		1.1		ug/m3			09/01/16 13:38	1
Trichlorofluoromethane	**15**		2.2		ug/m3			09/01/16 13:38	1
Vinyl chloride	ND		0.51		ug/m3			09/01/16 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*09/01/16 13:38*	*1*

Client Sample ID: SG-212

Date Collected: 08/24/16 12:57
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-3

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.95**		0.31		ppb v/v			09/01/16 14:22	1.57
1,1,2,2-Tetrachloroethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,1,2-Trichloroethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,1,2-Trichlorotrifluoroethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,1-Dichloroethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,1-Dichloroethene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,2,4-Trichlorobenzene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,2,4-Trimethylbenzene	**1.5**		0.31		ppb v/v			09/01/16 14:22	1.57
1,2-Dibromoethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,2-Dichlorobenzene	ND		0.31		ppb v/v			09/01/16 14:22	1.57

Client Sample ID: SG-212

Date Collected: 08/24/16 12:57
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-3

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,2-Dichloropropane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,2-Dichlorotetrafluoroethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,3,5-Trimethylbenzene	**0.36**		0.31		ppb v/v			09/01/16 14:22	1.57
1,3-Dichlorobenzene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
1,4-Dichlorobenzene	**17**		0.31		ppb v/v			09/01/16 14:22	1.57
1,4-Dioxane	ND		0.79		ppb v/v			09/01/16 14:22	1.57
2,2,4-Trimethylpentane	ND		0.79		ppb v/v			09/01/16 14:22	1.57
2-Butanone	**15**		1.3		ppb v/v			09/01/16 14:22	1.57
4-Methyl-2-pentanone (MIBK)	ND		0.79		ppb v/v			09/01/16 14:22	1.57
Benzene	**0.42**		0.31		ppb v/v			09/01/16 14:22	1.57
Benzyl chloride	ND		0.63		ppb v/v			09/01/16 14:22	1.57
Bromodichloromethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Bromoform	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Bromomethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Carbon tetrachloride	ND		0.16		ppb v/v			09/01/16 14:22	1.57
Chlorobenzene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Chloroethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Chloroform	**3.2**		0.31		ppb v/v			09/01/16 14:22	1.57
Chloromethane	ND		0.79		ppb v/v			09/01/16 14:22	1.57
cis-1,2-Dichloroethene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
cis-1,3-Dichloropropene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Cyclohexane	ND		0.79		ppb v/v			09/01/16 14:22	1.57
Dibromochloromethane	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Dichlorodifluoromethane	**0.38**		0.31		ppb v/v			09/01/16 14:22	1.57
Ethanol	ND		7.9		ppb v/v			09/01/16 14:22	1.57
Ethylbenzene	**0.59**		0.31		ppb v/v			09/01/16 14:22	1.57
Hexachlorobutadiene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Hexane	**1.2**		0.79		ppb v/v			09/01/16 14:22	1.57
Methyl tert-butyl ether	ND		0.63		ppb v/v			09/01/16 14:22	1.57
Methylene Chloride	ND		0.79		ppb v/v			09/01/16 14:22	1.57
m-Xylene & p-Xylene	**2.5**		0.31		ppb v/v			09/01/16 14:22	1.57
o-Xylene	**1.2**		0.31		ppb v/v			09/01/16 14:22	1.57
Styrene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
t-Butyl alcohol	**2.4**		1.3		ppb v/v			09/01/16 14:22	1.57
Tetrachloroethene	**3.1**		0.31		ppb v/v			09/01/16 14:22	1.57
Toluene	**2.1**		0.47		ppb v/v			09/01/16 14:22	1.57
trans-1,2-Dichloroethene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
trans-1,3-Dichloropropene	ND		0.31		ppb v/v			09/01/16 14:22	1.57
Trichloroethene	ND		0.16		ppb v/v			09/01/16 14:22	1.57
Trichlorofluoromethane	**0.50**		0.31		ppb v/v			09/01/16 14:22	1.57
Vinyl chloride	ND		0.16		ppb v/v			09/01/16 14:22	1.57

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**5.2**		1.7		ug/m3			09/01/16 14:22	1.57
1,1,2,2-Tetrachloroethane	ND		2.2		ug/m3			09/01/16 14:22	1.57
1,1,2-Trichloroethane	ND		1.7		ug/m3			09/01/16 14:22	1.57
1,1,2-Trichlorotrifluoroethane	ND		2.4		ug/m3			09/01/16 14:22	1.57
1,1-Dichloroethane	ND		1.3		ug/m3			09/01/16 14:22	1.57

Client Sample ID: SG-212

Date Collected: 08/24/16 12:57
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-3

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.2		ug/m3			09/01/16 14:22	1.57
1,2,4-Trichlorobenzene	ND		2.3		ug/m3			09/01/16 14:22	1.57
1,2,4-Trimethylbenzene	**7.5**		1.5		ug/m3			09/01/16 14:22	1.57
1,2-Dibromoethane	ND		2.4		ug/m3			09/01/16 14:22	1.57
1,2-Dichlorobenzene	ND		1.9		ug/m3			09/01/16 14:22	1.57
1,2-Dichloroethane	ND		1.3		ug/m3			09/01/16 14:22	1.57
1,2-Dichloropropane	ND		1.5		ug/m3			09/01/16 14:22	1.57
1,2-Dichlorotetrafluoroethane	ND		2.2		ug/m3			09/01/16 14:22	1.57
1,3,5-Trimethylbenzene	**1.7**		1.5		ug/m3			09/01/16 14:22	1.57
1,3-Dichlorobenzene	ND		1.9		ug/m3			09/01/16 14:22	1.57
1,4-Dichlorobenzene	**100**		1.9		ug/m3			09/01/16 14:22	1.57
1,4-Dioxane	ND		2.8		ug/m3			09/01/16 14:22	1.57
2,2,4-Trimethylpentane	ND		3.7		ug/m3			09/01/16 14:22	1.57
2-Butanone	**44**		3.7		ug/m3			09/01/16 14:22	1.57
4-Methyl-2-pentanone (MIBK)	ND		3.2		ug/m3			09/01/16 14:22	1.57
Benzene	**1.4**		1.0		ug/m3			09/01/16 14:22	1.57
Benzyl chloride	ND		3.3		ug/m3			09/01/16 14:22	1.57
Bromodichloromethane	ND		2.1		ug/m3			09/01/16 14:22	1.57
Bromoform	ND		3.2		ug/m3			09/01/16 14:22	1.57
Bromomethane	ND		1.2		ug/m3			09/01/16 14:22	1.57
Carbon tetrachloride	ND		0.99		ug/m3			09/01/16 14:22	1.57
Chlorobenzene	ND		1.4		ug/m3			09/01/16 14:22	1.57
Chloroethane	ND		0.83		ug/m3			09/01/16 14:22	1.57
Chloroform	**16**		1.5		ug/m3			09/01/16 14:22	1.57
Chloromethane	ND		1.6		ug/m3			09/01/16 14:22	1.57
cis-1,2-Dichloroethene	ND		1.2		ug/m3			09/01/16 14:22	1.57
cis-1,3-Dichloropropene	ND		1.4		ug/m3			09/01/16 14:22	1.57
Cyclohexane	ND		2.7		ug/m3			09/01/16 14:22	1.57
Dibromochloromethane	ND		2.7		ug/m3			09/01/16 14:22	1.57
Dichlorodifluoromethane	**1.9**		1.6		ug/m3			09/01/16 14:22	1.57
Ethanol	ND		15		ug/m3			09/01/16 14:22	1.57
Ethylbenzene	**2.6**		1.4		ug/m3			09/01/16 14:22	1.57
Hexachlorobutadiene	ND		3.3		ug/m3			09/01/16 14:22	1.57
Hexane	**4.2**		2.8		ug/m3			09/01/16 14:22	1.57
Methyl tert-butyl ether	ND		2.3		ug/m3			09/01/16 14:22	1.57
Methylene Chloride	ND		2.7		ug/m3			09/01/16 14:22	1.57
m-Xylene & p-Xylene	**11**		1.4		ug/m3			09/01/16 14:22	1.57
o-Xylene	**5.3**		1.4		ug/m3			09/01/16 14:22	1.57
Styrene	ND		1.3		ug/m3			09/01/16 14:22	1.57
t-Butyl alcohol	**7.4**		3.8		ug/m3			09/01/16 14:22	1.57
Tetrachloroethene	**21**		2.1		ug/m3			09/01/16 14:22	1.57
Toluene	**8.0**		1.8		ug/m3			09/01/16 14:22	1.57
trans-1,2-Dichloroethene	ND		1.2		ug/m3			09/01/16 14:22	1.57
trans-1,3-Dichloropropene	ND		1.4		ug/m3			09/01/16 14:22	1.57
Trichloroethene	ND		0.84		ug/m3			09/01/16 14:22	1.57
Trichlorofluoromethane	**2.8**		1.8		ug/m3			09/01/16 14:22	1.57
Vinyl chloride	ND		0.40		ug/m3			09/01/16 14:22	1.57

Client Sample ID: SG-212

Lab Sample ID: 140-5720-3

Date Collected: 08/24/16 12:57
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		60 - 140		09/01/16 14:22	1.57

Client Sample ID: SG-212 B

Lab Sample ID: 140-5720-4

Date Collected: 08/24/16 12:57
Matrix: Air
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.97**		0.28		ppb v/v			09/01/16 15:06	1.42
1,1,2,2-Tetrachloroethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,1,2-Trichloroethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,1,2-Trichlorotrifluoroethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,1-Dichloroethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,1-Dichloroethene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,2,4-Trichlorobenzene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,2,4-Trimethylbenzene	**1.7**		0.28		ppb v/v			09/01/16 15:06	1.42
1,2-Dibromoethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,2-Dichlorobenzene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,2-Dichloroethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,2-Dichloropropane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,2-Dichlorotetrafluoroethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,3,5-Trimethylbenzene	**0.38**		0.28		ppb v/v			09/01/16 15:06	1.42
1,3-Dichlorobenzene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
1,4-Dichlorobenzene	**19**		0.28		ppb v/v			09/01/16 15:06	1.42
1,4-Dioxane	ND		0.71		ppb v/v			09/01/16 15:06	1.42
2,2,4-Trimethylpentane	ND		0.71		ppb v/v			09/01/16 15:06	1.42
2-Butanone	**16**		1.1		ppb v/v			09/01/16 15:06	1.42
4-Methyl-2-pentanone (MIBK)	ND		0.71		ppb v/v			09/01/16 15:06	1.42
Benzene	**0.43**		0.28		ppb v/v			09/01/16 15:06	1.42
Benzyl chloride	ND		0.57		ppb v/v			09/01/16 15:06	1.42
Bromodichloromethane	**0.28**		0.28		ppb v/v			09/01/16 15:06	1.42
Bromoform	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Bromomethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Carbon tetrachloride	ND		0.14		ppb v/v			09/01/16 15:06	1.42
Chlorobenzene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Chloroethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Chloroform	**3.2**		0.28		ppb v/v			09/01/16 15:06	1.42
Chloromethane	ND		0.71		ppb v/v			09/01/16 15:06	1.42
cis-1,2-Dichloroethene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
cis-1,3-Dichloropropene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Cyclohexane	ND		0.71		ppb v/v			09/01/16 15:06	1.42
Dibromochloromethane	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Dichlorodifluoromethane	**0.36**		0.28		ppb v/v			09/01/16 15:06	1.42
Ethanol	**12**		7.1		ppb v/v			09/01/16 15:06	1.42
Ethylbenzene	**0.65**		0.28		ppb v/v			09/01/16 15:06	1.42
Hexachlorobutadiene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Hexane	**1.3**		0.71		ppb v/v			09/01/16 15:06	1.42
Methyl tert-butyl ether	ND		0.57		ppb v/v			09/01/16 15:06	1.42

Client Sample ID: SG-212 B

Date Collected: 08/24/16 12:57
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-4

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**1.1**		0.71		ppb v/v			09/01/16 15:06	1.42
m-Xylene & p-Xylene	**2.7**		0.28		ppb v/v			09/01/16 15:06	1.42
o-Xylene	**1.3**		0.28		ppb v/v			09/01/16 15:06	1.42
Styrene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
t-Butyl alcohol	**2.1**		1.1		ppb v/v			09/01/16 15:06	1.42
Tetrachloroethene	**3.2**		0.28		ppb v/v			09/01/16 15:06	1.42
Toluene	**2.3**		0.43		ppb v/v			09/01/16 15:06	1.42
trans-1,2-Dichloroethene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
trans-1,3-Dichloropropene	ND		0.28		ppb v/v			09/01/16 15:06	1.42
Trichloroethene	ND		0.14		ppb v/v			09/01/16 15:06	1.42
Trichlorofluoromethane	**0.56**		0.28		ppb v/v			09/01/16 15:06	1.42
Vinyl chloride	ND		0.14		ppb v/v			09/01/16 15:06	1.42

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**5.3**		1.5		ug/m3			09/01/16 15:06	1.42
1,1,2,2-Tetrachloroethane	ND		1.9		ug/m3			09/01/16 15:06	1.42
1,1,2-Trichloroethane	ND		1.5		ug/m3			09/01/16 15:06	1.42
1,1,2-Trichlorotrifluoroethane	ND		2.2		ug/m3			09/01/16 15:06	1.42
1,1-Dichloroethane	ND		1.1		ug/m3			09/01/16 15:06	1.42
1,1-Dichloroethene	ND		1.1		ug/m3			09/01/16 15:06	1.42
1,2,4-Trichlorobenzene	ND		2.1		ug/m3			09/01/16 15:06	1.42
1,2,4-Trimethylbenzene	**8.2**		1.4		ug/m3			09/01/16 15:06	1.42
1,2-Dibromoethane	ND		2.2		ug/m3			09/01/16 15:06	1.42
1,2-Dichlorobenzene	ND		1.7		ug/m3			09/01/16 15:06	1.42
1,2-Dichloroethane	ND		1.1		ug/m3			09/01/16 15:06	1.42
1,2-Dichloropropane	ND		1.3		ug/m3			09/01/16 15:06	1.42
1,2-Dichlorotetrafluoroethane	ND		2.0		ug/m3			09/01/16 15:06	1.42
1,3,5-Trimethylbenzene	**1.9**		1.4		ug/m3			09/01/16 15:06	1.42
1,3-Dichlorobenzene	ND		1.7		ug/m3			09/01/16 15:06	1.42
1,4-Dichlorobenzene	**110**		1.7		ug/m3			09/01/16 15:06	1.42
1,4-Dioxane	ND		2.6		ug/m3			09/01/16 15:06	1.42
2,2,4-Trimethylpentane	ND		3.3		ug/m3			09/01/16 15:06	1.42
2-Butanone	**48**		3.4		ug/m3			09/01/16 15:06	1.42
4-Methyl-2-pentanone (MIBK)	ND		2.9		ug/m3			09/01/16 15:06	1.42
Benzene	**1.4**		0.91		ug/m3			09/01/16 15:06	1.42
Benzyl chloride	ND		2.9		ug/m3			09/01/16 15:06	1.42
Bromodichloromethane	**1.8**		1.9		ug/m3			09/01/16 15:06	1.42
Bromoform	ND		2.9		ug/m3			09/01/16 15:06	1.42
Bromomethane	ND		1.1		ug/m3			09/01/16 15:06	1.42
Carbon tetrachloride	ND		0.89		ug/m3			09/01/16 15:06	1.42
Chlorobenzene	ND		1.3		ug/m3			09/01/16 15:06	1.42
Chloroethane	ND		0.75		ug/m3			09/01/16 15:06	1.42
Chloroform	**16**		1.4		ug/m3			09/01/16 15:06	1.42
Chloromethane	ND		1.5		ug/m3			09/01/16 15:06	1.42
cis-1,2-Dichloroethene	ND		1.1		ug/m3			09/01/16 15:06	1.42
cis-1,3-Dichloropropene	ND		1.3		ug/m3			09/01/16 15:06	1.42
Cyclohexane	ND		2.4		ug/m3			09/01/16 15:06	1.42
Dibromochloromethane	ND		2.4		ug/m3			09/01/16 15:06	1.42
Dichlorodifluoromethane	**1.8**		1.4		ug/m3			09/01/16 15:06	1.42

Client Sample ID: SG-212 B

Lab Sample ID: 140-5720-4

Date Collected: 08/24/16 12:57
Matrix: Air
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**22**		13		ug/m3			09/01/16 15:06	1.42
Ethylbenzene	**2.8**		1.2		ug/m3			09/01/16 15:06	1.42
Hexachlorobutadiene	ND		3.0		ug/m3			09/01/16 15:06	1.42
Hexane	**4.6**		2.5		ug/m3			09/01/16 15:06	1.42
Methyl tert-butyl ether	ND		2.0		ug/m3			09/01/16 15:06	1.42
Methylene Chloride	**3.8**		2.5		ug/m3			09/01/16 15:06	1.42
m-Xylene & p-Xylene	**12**		1.2		ug/m3			09/01/16 15:06	1.42
o-Xylene	**5.6**		1.2		ug/m3			09/01/16 15:06	1.42
Styrene	ND		1.2		ug/m3			09/01/16 15:06	1.42
t-Butyl alcohol	**6.4**		3.4		ug/m3			09/01/16 15:06	1.42
Tetrachloroethene	**22**		1.9		ug/m3			09/01/16 15:06	1.42
Toluene	**8.6**		1.6		ug/m3			09/01/16 15:06	1.42
trans-1,2-Dichloroethene	ND		1.1		ug/m3			09/01/16 15:06	1.42
trans-1,3-Dichloropropene	ND		1.3		ug/m3			09/01/16 15:06	1.42
Trichloroethene	ND		0.76		ug/m3			09/01/16 15:06	1.42
Trichlorofluoromethane	**3.1**		1.6		ug/m3			09/01/16 15:06	1.42
Vinyl chloride	ND		0.36		ug/m3			09/01/16 15:06	1.42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*09/01/16 15:06*	*1.42*

Client Sample ID: SG-211

Lab Sample ID: 140-5720-5

Date Collected: 08/24/16 12:55
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.3**		0.32		ppb v/v			09/01/16 15:51	1.61
1,1,2,2-Tetrachloroethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,1,2-Trichloroethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,1,2-Trichlorotrifluoroethane	**2.9**		0.32		ppb v/v			09/01/16 15:51	1.61
1,1-Dichloroethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,1-Dichloroethene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,2,4-Trichlorobenzene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,2,4-Trimethylbenzene	**2.2**		0.32		ppb v/v			09/01/16 15:51	1.61
1,2-Dibromoethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,2-Dichlorobenzene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,2-Dichloroethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,2-Dichloropropane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,2-Dichlorotetrafluoroethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,3,5-Trimethylbenzene	**0.61**		0.32		ppb v/v			09/01/16 15:51	1.61
1,3-Dichlorobenzene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
1,4-Dichlorobenzene	**16**		0.32		ppb v/v			09/01/16 15:51	1.61
1,4-Dioxane	ND		0.81		ppb v/v			09/01/16 15:51	1.61
2,2,4-Trimethylpentane	ND		0.81		ppb v/v			09/01/16 15:51	1.61
2-Butanone	**27**		1.3		ppb v/v			09/01/16 15:51	1.61
4-Methyl-2-pentanone (MIBK)	ND		0.81		ppb v/v			09/01/16 15:51	1.61
Benzene	**2.9**		0.32		ppb v/v			09/01/16 15:51	1.61

Client Sample ID: SG-211

Date Collected: 08/24/16 12:55
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-5

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		0.64		ppb v/v			09/01/16 15:51	1.61
Bromodichloromethane	**0.46**		0.32		ppb v/v			09/01/16 15:51	1.61
Bromoform	ND		0.32		ppb v/v			09/01/16 15:51	1.61
Bromomethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
Carbon tetrachloride	ND		0.16		ppb v/v			09/01/16 15:51	1.61
Chlorobenzene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
Chloroethane	**0.33**		0.32		ppb v/v			09/01/16 15:51	1.61
Chloroform	**6.8**		0.32		ppb v/v			09/01/16 15:51	1.61
Chloromethane	**1.1**		0.81		ppb v/v			09/01/16 15:51	1.61
cis-1,2-Dichloroethene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
cis-1,3-Dichloropropene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
Cyclohexane	ND		0.81		ppb v/v			09/01/16 15:51	1.61
Dibromochloromethane	ND		0.32		ppb v/v			09/01/16 15:51	1.61
Dichlorodifluoromethane	**0.53**		0.32		ppb v/v			09/01/16 15:51	1.61
Ethanol	ND		8.1		ppb v/v			09/01/16 15:51	1.61
Ethylbenzene	**1.2**		0.32		ppb v/v			09/01/16 15:51	1.61
Hexachlorobutadiene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
Hexane	**4.8**		0.81		ppb v/v			09/01/16 15:51	1.61
Methyl tert-butyl ether	ND		0.64		ppb v/v			09/01/16 15:51	1.61
Methylene Chloride	**1.2**		0.81		ppb v/v			09/01/16 15:51	1.61
m-Xylene & p-Xylene	**4.7**		0.32		ppb v/v			09/01/16 15:51	1.61
o-Xylene	**2.1**		0.32		ppb v/v			09/01/16 15:51	1.61
Styrene	**0.41**		0.32		ppb v/v			09/01/16 15:51	1.61
t-Butyl alcohol	**4.0**		1.3		ppb v/v			09/01/16 15:51	1.61
Tetrachloroethene	**2.7**		0.32		ppb v/v			09/01/16 15:51	1.61
Toluene	**7.3**		0.48		ppb v/v			09/01/16 15:51	1.61
trans-1,2-Dichloroethene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
trans-1,3-Dichloropropene	ND		0.32		ppb v/v			09/01/16 15:51	1.61
Trichloroethene	ND		0.16		ppb v/v			09/01/16 15:51	1.61
Trichlorofluoromethane	**0.53**		0.32		ppb v/v			09/01/16 15:51	1.61
Vinyl chloride	ND		0.16		ppb v/v			09/01/16 15:51	1.61

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**7.1**		1.8		ug/m3			09/01/16 15:51	1.61
1,1,2,2-Tetrachloroethane	ND		2.2		ug/m3			09/01/16 15:51	1.61
1,1,2-Trichloroethane	ND		1.8		ug/m3			09/01/16 15:51	1.61
1,1,2-Trichlorotrifluoroethane	**22**		2.5		ug/m3			09/01/16 15:51	1.61
1,1-Dichloroethane	ND		1.3		ug/m3			09/01/16 15:51	1.61
1,1-Dichloroethene	ND		1.3		ug/m3			09/01/16 15:51	1.61
1,2,4-Trichlorobenzene	ND		2.4		ug/m3			09/01/16 15:51	1.61
1,2,4-Trimethylbenzene	**11**		1.6		ug/m3			09/01/16 15:51	1.61
1,2-Dibromoethane	ND		2.5		ug/m3			09/01/16 15:51	1.61
1,2-Dichlorobenzene	ND		1.9		ug/m3			09/01/16 15:51	1.61
1,2-Dichloroethane	ND		1.3		ug/m3			09/01/16 15:51	1.61
1,2-Dichloropropane	ND		1.5		ug/m3			09/01/16 15:51	1.61
1,2-Dichlorotetrafluoroethane	ND		2.3		ug/m3			09/01/16 15:51	1.61
1,3,5-Trimethylbenzene	**3.0**		1.6		ug/m3			09/01/16 15:51	1.61
1,3-Dichlorobenzene	ND		1.9		ug/m3			09/01/16 15:51	1.61
1,4-Dichlorobenzene	**97**		1.9		ug/m3			09/01/16 15:51	1.61

Client Sample ID: SG-211
Lab Sample ID: 140-5720-5

Date Collected: 08/24/16 12:55
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.9		ug/m3			09/01/16 15:51	1.61
2,2,4-Trimethylpentane	ND		3.8		ug/m3			09/01/16 15:51	1.61
2-Butanone	**80**		3.8		ug/m3			09/01/16 15:51	1.61
4-Methyl-2-pentanone (MIBK)	ND		3.3		ug/m3			09/01/16 15:51	1.61
Benzene	**9.2**		1.0		ug/m3			09/01/16 15:51	1.61
Benzyl chloride	ND		3.3		ug/m3			09/01/16 15:51	1.61
Bromodichloromethane	**3.1**		2.2		ug/m3			09/01/16 15:51	1.61
Bromoform	ND		3.3		ug/m3			09/01/16 15:51	1.61
Bromomethane	ND		1.3		ug/m3			09/01/16 15:51	1.61
Carbon tetrachloride	ND		1.0		ug/m3			09/01/16 15:51	1.61
Chlorobenzene	ND		1.5		ug/m3			09/01/16 15:51	1.61
Chloroethane	**0.88**		0.85		ug/m3			09/01/16 15:51	1.61
Chloroform	**33**		1.6		ug/m3			09/01/16 15:51	1.61
Chloromethane	**2.3**		1.7		ug/m3			09/01/16 15:51	1.61
cis-1,2-Dichloroethene	ND		1.3		ug/m3			09/01/16 15:51	1.61
cis-1,3-Dichloropropene	ND		1.5		ug/m3			09/01/16 15:51	1.61
Cyclohexane	ND		2.8		ug/m3			09/01/16 15:51	1.61
Dibromochloromethane	ND		2.7		ug/m3			09/01/16 15:51	1.61
Dichlorodifluoromethane	**2.6**		1.6		ug/m3			09/01/16 15:51	1.61
Ethanol	ND		15		ug/m3			09/01/16 15:51	1.61
Ethylbenzene	**5.3**		1.4		ug/m3			09/01/16 15:51	1.61
Hexachlorobutadiene	ND		3.4		ug/m3			09/01/16 15:51	1.61
Hexane	**17**		2.8		ug/m3			09/01/16 15:51	1.61
Methyl tert-butyl ether	ND		2.3		ug/m3			09/01/16 15:51	1.61
Methylene Chloride	**4.2**		2.8		ug/m3			09/01/16 15:51	1.61
m-Xylene & p-Xylene	**21**		1.4		ug/m3			09/01/16 15:51	1.61
o-Xylene	**9.3**		1.4		ug/m3			09/01/16 15:51	1.61
Styrene	**1.8**		1.4		ug/m3			09/01/16 15:51	1.61
t-Butyl alcohol	**12**		3.9		ug/m3			09/01/16 15:51	1.61
Tetrachloroethene	**18**		2.2		ug/m3			09/01/16 15:51	1.61
Toluene	**28**		1.8		ug/m3			09/01/16 15:51	1.61
trans-1,2-Dichloroethene	ND		1.3		ug/m3			09/01/16 15:51	1.61
trans-1,3-Dichloropropene	ND		1.5		ug/m3			09/01/16 15:51	1.61
Trichloroethene	ND		0.87		ug/m3			09/01/16 15:51	1.61
Trichlorofluoromethane	**2.9**		1.8		ug/m3			09/01/16 15:51	1.61
Vinyl chloride	ND		0.41		ug/m3			09/01/16 15:51	1.61

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*09/01/16 15:51*	*1.61*

Client Sample ID: SG-213
Lab Sample ID: 140-5720-6

Date Collected: 08/24/16 13:15
Matrix: Air
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.4**		0.19		ppb v/v			09/01/16 23:25	1.42
1,1,2,2-Tetrachloroethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42

Client Sample ID: SG-213

Date Collected: 08/24/16 13:15
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-6

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,1,2-Trichlorotrifluoroethane	**0.42**		0.19		ppb v/v			09/01/16 23:25	1.42
1,1-Dichloroethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,1-Dichloroethene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,2,4-Trichlorobenzene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,2,4-Trimethylbenzene	**2.1**		0.19		ppb v/v			09/01/16 23:25	1.42
1,2-Dibromoethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,2-Dichlorobenzene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,2-Dichloroethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,2-Dichloropropane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,2-Dichlorotetrafluoroethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,3,5-Trimethylbenzene	**0.58**		0.19		ppb v/v			09/01/16 23:25	1.42
1,3-Dichlorobenzene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
1,4-Dichlorobenzene	**2.8**		0.19		ppb v/v			09/01/16 23:25	1.42
1,4-Dioxane	ND		0.47		ppb v/v			09/01/16 23:25	1.42
2,2,4-Trimethylpentane	ND		0.47		ppb v/v			09/01/16 23:25	1.42
2-Butanone	**9.2**		0.76		ppb v/v			09/01/16 23:25	1.42
4-Methyl-2-pentanone (MIBK)	**1.0**		0.47		ppb v/v			09/01/16 23:25	1.42
Benzene	**3.9**		0.19		ppb v/v			09/01/16 23:25	1.42
Benzyl chloride	ND		0.38		ppb v/v			09/01/16 23:25	1.42
Bromodichloromethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Bromoform	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Bromomethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Carbon tetrachloride	ND		0.095		ppb v/v			09/01/16 23:25	1.42
Chlorobenzene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Chloroethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Chloroform	**1.0**		0.19		ppb v/v			09/01/16 23:25	1.42
Chloromethane	ND		0.47		ppb v/v			09/01/16 23:25	1.42
cis-1,2-Dichloroethene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
cis-1,3-Dichloropropene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Cyclohexane	**0.48**		0.47		ppb v/v			09/01/16 23:25	1.42
Dibromochloromethane	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Dichlorodifluoromethane	**0.19**		0.19		ppb v/v			09/01/16 23:25	1.42
Ethanol	ND		4.7		ppb v/v			09/01/16 23:25	1.42
Ethylbenzene	**1.3**		0.19		ppb v/v			09/01/16 23:25	1.42
Hexachlorobutadiene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Hexane	**1.1**		0.47		ppb v/v			09/01/16 23:25	1.42
Methyl tert-butyl ether	ND		0.38		ppb v/v			09/01/16 23:25	1.42
Methylene Chloride	**0.60**		0.47		ppb v/v			09/01/16 23:25	1.42
m-Xylene & p-Xylene	**5.3**		0.19		ppb v/v			09/01/16 23:25	1.42
o-Xylene	**2.2**		0.19		ppb v/v			09/01/16 23:25	1.42
Styrene	**0.44**		0.19		ppb v/v			09/01/16 23:25	1.42
t-Butyl alcohol	**0.83**		0.76		ppb v/v			09/01/16 23:25	1.42
Tetrachloroethene	**7.6**		0.19		ppb v/v			09/01/16 23:25	1.42
Toluene	**5.2**		0.28		ppb v/v			09/01/16 23:25	1.42
trans-1,2-Dichloroethene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
trans-1,3-Dichloropropene	ND		0.19		ppb v/v			09/01/16 23:25	1.42
Trichloroethene	ND		0.095		ppb v/v			09/01/16 23:25	1.42

Client Sample ID: SG-213

Date Collected: 08/24/16 13:15
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-6

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	**1.4**		0.19		ppb v/v			09/01/16 23:25	1.42
Vinyl chloride	ND		0.095		ppb v/v			09/01/16 23:25	1.42

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**7.7**		1.0		ug/m3			09/01/16 23:25	1.42
1,1,2,2-Tetrachloroethane	ND		1.3		ug/m3			09/01/16 23:25	1.42
1,1,2-Trichloroethane	ND		1.0		ug/m3			09/01/16 23:25	1.42
1,1,2-Trichlorotrifluoroethane	**3.2**		1.5		ug/m3			09/01/16 23:25	1.42
1,1-Dichloroethane	ND		0.77		ug/m3			09/01/16 23:25	1.42
1,1-Dichloroethene	ND		0.75		ug/m3			09/01/16 23:25	1.42
1,2,4-Trichlorobenzene	ND		1.4		ug/m3			09/01/16 23:25	1.42
1,2,4-Trimethylbenzene	**10**		0.93		ug/m3			09/01/16 23:25	1.42
1,2-Dibromoethane	ND		1.5		ug/m3			09/01/16 23:25	1.42
1,2-Dichlorobenzene	ND		1.1		ug/m3			09/01/16 23:25	1.42
1,2-Dichloroethane	ND		0.77		ug/m3			09/01/16 23:25	1.42
1,2-Dichloropropane	ND		0.87		ug/m3			09/01/16 23:25	1.42
1,2-Dichlorotetrafluoroethane	ND		1.3		ug/m3			09/01/16 23:25	1.42
1,3,5-Trimethylbenzene	**2.8**		0.93		ug/m3			09/01/16 23:25	1.42
1,3-Dichlorobenzene	ND		1.1		ug/m3			09/01/16 23:25	1.42
1,4-Dichlorobenzene	**17**		1.1		ug/m3			09/01/16 23:25	1.42
1,4-Dioxane	ND		1.7		ug/m3			09/01/16 23:25	1.42
2,2,4-Trimethylpentane	ND		2.2		ug/m3			09/01/16 23:25	1.42
2-Butanone	**27**		2.2		ug/m3			09/01/16 23:25	1.42
4-Methyl-2-pentanone (MIBK)	**4.3**		1.9		ug/m3			09/01/16 23:25	1.42
Benzene	**12**		0.60		ug/m3			09/01/16 23:25	1.42
Benzyl chloride	ND		2.0		ug/m3			09/01/16 23:25	1.42
Bromodichloromethane	ND		1.3		ug/m3			09/01/16 23:25	1.42
Bromoform	ND		2.0		ug/m3			09/01/16 23:25	1.42
Bromomethane	ND		0.74		ug/m3			09/01/16 23:25	1.42
Carbon tetrachloride	ND		0.60		ug/m3			09/01/16 23:25	1.42
Chlorobenzene	ND		0.87		ug/m3			09/01/16 23:25	1.42
Chloroethane	ND		0.50		ug/m3			09/01/16 23:25	1.42
Chloroform	**4.9**		0.92		ug/m3			09/01/16 23:25	1.42
Chloromethane	ND		0.98		ug/m3			09/01/16 23:25	1.42
cis-1,2-Dichloroethene	ND		0.75		ug/m3			09/01/16 23:25	1.42
cis-1,3-Dichloropropene	ND		0.86		ug/m3			09/01/16 23:25	1.42
Cyclohexane	**1.7**		1.6		ug/m3			09/01/16 23:25	1.42
Dibromochloromethane	ND		1.6		ug/m3			09/01/16 23:25	1.42
Dichlorodifluoromethane	**0.96**		0.94		ug/m3			09/01/16 23:25	1.42
Ethanol	ND		8.9		ug/m3			09/01/16 23:25	1.42
Ethylbenzene	**5.6**		0.82		ug/m3			09/01/16 23:25	1.42
Hexachlorobutadiene	ND		2.0		ug/m3			09/01/16 23:25	1.42
Hexane	**4.0**		1.7		ug/m3			09/01/16 23:25	1.42
Methyl tert-butyl ether	ND		1.4		ug/m3			09/01/16 23:25	1.42
Methylene Chloride	**2.1**		1.6		ug/m3			09/01/16 23:25	1.42
m-Xylene & p-Xylene	**23**		0.82		ug/m3			09/01/16 23:25	1.42
o-Xylene	**9.6**		0.82		ug/m3			09/01/16 23:25	1.42
Styrene	**1.9**		0.81		ug/m3			09/01/16 23:25	1.42
t-Butyl alcohol	**2.5**		2.3		ug/m3			09/01/16 23:25	1.42

Client Sample ID: SG-213

Lab Sample ID: 140-5720-6

Date Collected: 08/24/16 13:15
Matrix: Air
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**51**		1.3		ug/m3			09/01/16 23:25	1.42
Toluene	**20**		1.1		ug/m3			09/01/16 23:25	1.42
trans-1,2-Dichloroethene	ND		0.75		ug/m3			09/01/16 23:25	1.42
trans-1,3-Dichloropropene	ND		0.86		ug/m3			09/01/16 23:25	1.42
Trichloroethene	ND		0.51		ug/m3			09/01/16 23:25	1.42
Trichlorofluoromethane	**8.1**		1.1		ug/m3			09/01/16 23:25	1.42
Vinyl chloride	ND		0.24		ug/m3			09/01/16 23:25	1.42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*09/01/16 23:25*	*1.42*

Client Sample ID: AA-1

Lab Sample ID: 140-5720-7

Date Collected: 08/24/16 13:14
Matrix: Air
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/01/16 17:24	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/01/16 17:24	1
1,2,4-Trimethylbenzene	**0.22**		0.080		ppb v/v			09/01/16 17:24	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/01/16 17:24	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/01/16 17:24	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/01/16 17:24	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			09/01/16 17:24	1
1,4-Dioxane	ND		0.20		ppb v/v			09/01/16 17:24	1
2,2,4-Trimethylpentane	**0.42**		0.20		ppb v/v			09/01/16 17:24	1
2-Butanone	**1.0**		0.32		ppb v/v			09/01/16 17:24	1
4-Methyl-2-pentanone (MIBK)	**2.1**		0.20		ppb v/v			09/01/16 17:24	1
Benzene	**0.24**		0.080		ppb v/v			09/01/16 17:24	1
Benzyl chloride	ND		0.16		ppb v/v			09/01/16 17:24	1
Bromodichloromethane	ND		0.080		ppb v/v			09/01/16 17:24	1
Bromoform	ND		0.080		ppb v/v			09/01/16 17:24	1
Bromomethane	ND		0.080		ppb v/v			09/01/16 17:24	1
Carbon tetrachloride	**0.070**		0.040		ppb v/v			09/01/16 17:24	1
Chlorobenzene	ND		0.080		ppb v/v			09/01/16 17:24	1
Chloroethane	ND		0.080		ppb v/v			09/01/16 17:24	1
Chloroform	ND		0.080		ppb v/v			09/01/16 17:24	1
Chloromethane	**0.96**		0.20		ppb v/v			09/01/16 17:24	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/01/16 17:24	1

Client Sample ID: AA-1

Date Collected: 08/24/16 13:14
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-7

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/01/16 17:24	1
Cyclohexane	ND		0.20		ppb v/v			09/01/16 17:24	1
Dibromochloromethane	ND		0.080		ppb v/v			09/01/16 17:24	1
Dichlorodifluoromethane	**0.50**		0.080		ppb v/v			09/01/16 17:24	1
Ethanol	**49**		2.0		ppb v/v			09/01/16 17:24	1
Ethylbenzene	**0.17**		0.080		ppb v/v			09/01/16 17:24	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/01/16 17:24	1
Hexane	**0.57**		0.20		ppb v/v			09/01/16 17:24	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/01/16 17:24	1
Methylene Chloride	**0.90**		0.20		ppb v/v			09/01/16 17:24	1
m-Xylene & p-Xylene	**0.54**		0.080		ppb v/v			09/01/16 17:24	1
o-Xylene	**0.21**		0.080		ppb v/v			09/01/16 17:24	1
Styrene	ND		0.080		ppb v/v			09/01/16 17:24	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/01/16 17:24	1
Tetrachloroethene	ND		0.080		ppb v/v			09/01/16 17:24	1
Toluene	**0.86**		0.12		ppb v/v			09/01/16 17:24	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/01/16 17:24	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/01/16 17:24	1
Trichloroethene	ND		0.040		ppb v/v			09/01/16 17:24	1
Trichlorofluoromethane	**0.32**		0.080		ppb v/v			09/01/16 17:24	1
Vinyl chloride	ND		0.040		ppb v/v			09/01/16 17:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/01/16 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/01/16 17:24	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/01/16 17:24	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/01/16 17:24	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/01/16 17:24	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/01/16 17:24	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/01/16 17:24	1
1,2,4-Trimethylbenzene	**1.1**		0.39		ug/m3			09/01/16 17:24	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/01/16 17:24	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/01/16 17:24	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/01/16 17:24	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/01/16 17:24	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/01/16 17:24	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/01/16 17:24	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/01/16 17:24	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			09/01/16 17:24	1
1,4-Dioxane	ND		0.72		ug/m3			09/01/16 17:24	1
2,2,4-Trimethylpentane	**2.0**		0.93		ug/m3			09/01/16 17:24	1
2-Butanone	**3.0**		0.94		ug/m3			09/01/16 17:24	1
4-Methyl-2-pentanone (MIBK)	**8.8**		0.82		ug/m3			09/01/16 17:24	1
Benzene	**0.75**		0.26		ug/m3			09/01/16 17:24	1
Benzyl chloride	ND		0.83		ug/m3			09/01/16 17:24	1
Bromodichloromethane	ND		0.54		ug/m3			09/01/16 17:24	1
Bromoform	ND		0.83		ug/m3			09/01/16 17:24	1
Bromomethane	ND		0.31		ug/m3			09/01/16 17:24	1
Carbon tetrachloride	**0.44**		0.25		ug/m3			09/01/16 17:24	1

Client Sample ID: AA-1

Lab Sample ID: 140-5720-7

Date Collected: 08/24/16 13:14
Matrix: Air
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.37		ug/m3			09/01/16 17:24	1
Chloroethane	ND		0.21		ug/m3			09/01/16 17:24	1
Chloroform	ND		0.39		ug/m3			09/01/16 17:24	1
Chloromethane	**2.0**		0.41		ug/m3			09/01/16 17:24	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/01/16 17:24	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/01/16 17:24	1
Cyclohexane	ND		0.69		ug/m3			09/01/16 17:24	1
Dibromochloromethane	ND		0.68		ug/m3			09/01/16 17:24	1
Dichlorodifluoromethane	**2.5**		0.40		ug/m3			09/01/16 17:24	1
Ethanol	**92**		3.8		ug/m3			09/01/16 17:24	1
Ethylbenzene	**0.72**		0.35		ug/m3			09/01/16 17:24	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/01/16 17:24	1
Hexane	**2.0**		0.70		ug/m3			09/01/16 17:24	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/01/16 17:24	1
Methylene Chloride	**3.1**		0.69		ug/m3			09/01/16 17:24	1
m-Xylene & p-Xylene	**2.4**		0.35		ug/m3			09/01/16 17:24	1
o-Xylene	**0.92**		0.35		ug/m3			09/01/16 17:24	1
Styrene	ND		0.34		ug/m3			09/01/16 17:24	1
t-Butyl alcohol	ND		0.97		ug/m3			09/01/16 17:24	1
Tetrachloroethene	ND		0.54		ug/m3			09/01/16 17:24	1
Toluene	**3.2**		0.45		ug/m3			09/01/16 17:24	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/01/16 17:24	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/01/16 17:24	1
Trichloroethene	ND		0.21		ug/m3			09/01/16 17:24	1
Trichlorofluoromethane	**1.8**		0.45		ug/m3			09/01/16 17:24	1
Vinyl chloride	ND		0.10		ug/m3			09/01/16 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*09/01/16 17:24*	*1*

Client Sample ID: SG-217

Lab Sample ID: 140-5720-8

Date Collected: 08/24/16 13:25
Matrix: Air
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,1,2,2-Tetrachloroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,1,2-Trichloroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,1,2-Trichlorotrifluoroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,1-Dichloroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,1-Dichloroethene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,2,4-Trichlorobenzene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,2,4-Trimethylbenzene	**1.7**		1.1		ppb v/v			09/01/16 18:12	14.16
1,2-Dibromoethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,2-Dichlorobenzene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,2-Dichloroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,2-Dichloropropane	ND		1.1		ppb v/v			09/01/16 18:12	14.16

Client Sample ID: SG-217

Date Collected: 08/24/16 13:25
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-8

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,3,5-Trimethylbenzene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,3-Dichlorobenzene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
1,4-Dichlorobenzene	**4.7**		1.1		ppb v/v			09/01/16 18:12	14.16
1,4-Dioxane	ND		2.8		ppb v/v			09/01/16 18:12	14.16
2,2,4-Trimethylpentane	**13**		2.8		ppb v/v			09/01/16 18:12	14.16
2-Butanone	**10**		4.5		ppb v/v			09/01/16 18:12	14.16
4-Methyl-2-pentanone (MIBK)	ND		2.8		ppb v/v			09/01/16 18:12	14.16
Benzene	**17**		1.1		ppb v/v			09/01/16 18:12	14.16
Benzyl chloride	ND		2.3		ppb v/v			09/01/16 18:12	14.16
Bromodichloromethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Bromoform	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Bromomethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Carbon tetrachloride	ND		0.57		ppb v/v			09/01/16 18:12	14.16
Chlorobenzene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Chloroethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Chloroform	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Chloromethane	ND		2.8		ppb v/v			09/01/16 18:12	14.16
cis-1,2-Dichloroethene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
cis-1,3-Dichloropropene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Cyclohexane	**13**		2.8		ppb v/v			09/01/16 18:12	14.16
Dibromochloromethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Dichlorodifluoromethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Ethanol	ND		28		ppb v/v			09/01/16 18:12	14.16
Ethylbenzene	**1.1**		1.1		ppb v/v			09/01/16 18:12	14.16
Hexachlorobutadiene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Hexane	**15**		2.8		ppb v/v			09/01/16 18:12	14.16
Methyl tert-butyl ether	ND		2.3		ppb v/v			09/01/16 18:12	14.16
Methylene Chloride	ND		2.8		ppb v/v			09/01/16 18:12	14.16
m-Xylene & p-Xylene	**4.3**		1.1		ppb v/v			09/01/16 18:12	14.16
o-Xylene	**1.8**		1.1		ppb v/v			09/01/16 18:12	14.16
Styrene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
t-Butyl alcohol	ND		4.5		ppb v/v			09/01/16 18:12	14.16
Tetrachloroethene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Toluene	**5.0**		1.7		ppb v/v			09/01/16 18:12	14.16
trans-1,2-Dichloroethene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
trans-1,3-Dichloropropene	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Trichloroethene	ND		0.57		ppb v/v			09/01/16 18:12	14.16
Trichlorofluoromethane	ND		1.1		ppb v/v			09/01/16 18:12	14.16
Vinyl chloride	ND		0.57		ppb v/v			09/01/16 18:12	14.16

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		6.2		ug/m3			09/01/16 18:12	14.16
1,1,2,2-Tetrachloroethane	ND		7.8		ug/m3			09/01/16 18:12	14.16
1,1,2-Trichloroethane	ND		6.2		ug/m3			09/01/16 18:12	14.16
1,1,2-Trichlorotrifluoroethane	ND		8.7		ug/m3			09/01/16 18:12	14.16
1,1-Dichloroethane	ND		4.6		ug/m3			09/01/16 18:12	14.16
1,1-Dichloroethene	ND		4.5		ug/m3			09/01/16 18:12	14.16
1,2,4-Trichlorobenzene	ND		8.4		ug/m3			09/01/16 18:12	14.16

Client Sample ID: SG-217

Date Collected: 08/24/16 13:25
Date Received: 08/29/16 09:30
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-8

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**8.2**		5.6		ug/m3			09/01/16 18:12	14.16
1,2-Dibromoethane	ND		8.7		ug/m3			09/01/16 18:12	14.16
1,2-Dichlorobenzene	ND		6.8		ug/m3			09/01/16 18:12	14.16
1,2-Dichloroethane	ND		4.6		ug/m3			09/01/16 18:12	14.16
1,2-Dichloropropane	ND		5.2		ug/m3			09/01/16 18:12	14.16
1,2-Dichlorotetrafluoroethane	ND		7.9		ug/m3			09/01/16 18:12	14.16
1,3,5-Trimethylbenzene	ND		5.6		ug/m3			09/01/16 18:12	14.16
1,3-Dichlorobenzene	ND		6.8		ug/m3			09/01/16 18:12	14.16
1,4-Dichlorobenzene	**28**		6.8		ug/m3			09/01/16 18:12	14.16
1,4-Dioxane	ND		10		ug/m3			09/01/16 18:12	14.16
2,2,4-Trimethylpentane	**63**		13		ug/m3			09/01/16 18:12	14.16
2-Butanone	**31**		13		ug/m3			09/01/16 18:12	14.16
4-Methyl-2-pentanone (MIBK)	ND		12		ug/m3			09/01/16 18:12	14.16
Benzene	**53**		3.6		ug/m3			09/01/16 18:12	14.16
Benzyl chloride	ND		12		ug/m3			09/01/16 18:12	14.16
Bromodichloromethane	ND		7.6		ug/m3			09/01/16 18:12	14.16
Bromoform	ND		12		ug/m3			09/01/16 18:12	14.16
Bromomethane	ND		4.4		ug/m3			09/01/16 18:12	14.16
Carbon tetrachloride	ND		3.6		ug/m3			09/01/16 18:12	14.16
Chlorobenzene	ND		5.2		ug/m3			09/01/16 18:12	14.16
Chloroethane	ND		3.0		ug/m3			09/01/16 18:12	14.16
Chloroform	ND		5.5		ug/m3			09/01/16 18:12	14.16
Chloromethane	ND		5.8		ug/m3			09/01/16 18:12	14.16
cis-1,2-Dichloroethene	ND		4.5		ug/m3			09/01/16 18:12	14.16
cis-1,3-Dichloropropene	ND		5.1		ug/m3			09/01/16 18:12	14.16
Cyclohexane	**46**		9.7		ug/m3			09/01/16 18:12	14.16
Dibromochloromethane	ND		9.7		ug/m3			09/01/16 18:12	14.16
Dichlorodifluoromethane	ND		5.6		ug/m3			09/01/16 18:12	14.16
Ethanol	ND		53		ug/m3			09/01/16 18:12	14.16
Ethylbenzene	**4.9**		4.9		ug/m3			09/01/16 18:12	14.16
Hexachlorobutadiene	ND		12		ug/m3			09/01/16 18:12	14.16
Hexane	**54**		10		ug/m3			09/01/16 18:12	14.16
Methyl tert-butyl ether	ND		8.2		ug/m3			09/01/16 18:12	14.16
Methylene Chloride	ND		9.8		ug/m3			09/01/16 18:12	14.16
m-Xylene & p-Xylene	**19**		4.9		ug/m3			09/01/16 18:12	14.16
o-Xylene	**7.8**		4.9		ug/m3			09/01/16 18:12	14.16
Styrene	ND		4.8		ug/m3			09/01/16 18:12	14.16
t-Butyl alcohol	ND		14		ug/m3			09/01/16 18:12	14.16
Tetrachloroethene	ND		7.7		ug/m3			09/01/16 18:12	14.16
Toluene	**19**		6.4		ug/m3			09/01/16 18:12	14.16
trans-1,2-Dichloroethene	ND		4.5		ug/m3			09/01/16 18:12	14.16
trans-1,3-Dichloropropene	ND		5.1		ug/m3			09/01/16 18:12	14.16
Trichloroethene	ND		3.0		ug/m3			09/01/16 18:12	14.16
Trichlorofluoromethane	ND		6.4		ug/m3			09/01/16 18:12	14.16
Vinyl chloride	ND		1.4		ug/m3			09/01/16 18:12	14.16

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*09/01/16 18:12*	*14.16*

Client Sample ID: SG-218

Date Collected: 08/24/16 11:10
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-9

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**3.5**		0.80		ppb v/v			09/01/16 18:56	1.46
1,1,2,2-Tetrachloroethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,1,2-Trichloroethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,1,2-Trichlorotrifluoroethane	**1.4**		0.80		ppb v/v			09/01/16 18:56	1.46
1,1-Dichloroethane	**1.2**		0.80		ppb v/v			09/01/16 18:56	1.46
1,1-Dichloroethene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,2,4-Trichlorobenzene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,2,4-Trimethylbenzene	**1.7**		0.80		ppb v/v			09/01/16 18:56	1.46
1,2-Dibromoethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,2-Dichlorobenzene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,2-Dichloroethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,2-Dichloropropane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,2-Dichlorotetrafluoroethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,3,5-Trimethylbenzene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,3-Dichlorobenzene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
1,4-Dichlorobenzene	**15**		0.80		ppb v/v			09/01/16 18:56	1.46
1,4-Dioxane	ND		2.0		ppb v/v			09/01/16 18:56	1.46
2,2,4-Trimethylpentane	ND		2.0		ppb v/v			09/01/16 18:56	1.46
2-Butanone	ND		3.2		ppb v/v			09/01/16 18:56	1.46
4-Methyl-2-pentanone (MIBK)	ND		2.0		ppb v/v			09/01/16 18:56	1.46
Benzene	**2.1**		0.80		ppb v/v			09/01/16 18:56	1.46
Benzyl chloride	ND		1.6		ppb v/v			09/01/16 18:56	1.46
Bromodichloromethane	**5.7**		0.80		ppb v/v			09/01/16 18:56	1.46
Bromoform	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Bromomethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Carbon tetrachloride	ND		0.40		ppb v/v			09/01/16 18:56	1.46
Chlorobenzene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Chloroethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Chloroform	**30**		0.80		ppb v/v			09/01/16 18:56	1.46
Chloromethane	ND		2.0		ppb v/v			09/01/16 18:56	1.46
cis-1,2-Dichloroethene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
cis-1,3-Dichloropropene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Cyclohexane	ND		2.0		ppb v/v			09/01/16 18:56	1.46
Dibromochloromethane	**1.6**		0.80		ppb v/v			09/01/16 18:56	1.46
Dichlorodifluoromethane	**0.82**		0.80		ppb v/v			09/01/16 18:56	1.46
Ethanol	ND		20		ppb v/v			09/01/16 18:56	1.46
Ethylbenzene	**1.1**		0.80		ppb v/v			09/01/16 18:56	1.46
Hexachlorobutadiene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Hexane	**4.5**		2.0		ppb v/v			09/01/16 18:56	1.46
Methyl tert-butyl ether	ND		1.6		ppb v/v			09/01/16 18:56	1.46
Methylene Chloride	ND		2.0		ppb v/v			09/01/16 18:56	1.46
m-Xylene & p-Xylene	**4.6**		0.80		ppb v/v			09/01/16 18:56	1.46
o-Xylene	**1.8**		0.80		ppb v/v			09/01/16 18:56	1.46
Styrene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
t-Butyl alcohol	ND		3.2		ppb v/v			09/01/16 18:56	1.46
Tetrachloroethene	**34**		0.80		ppb v/v			09/01/16 18:56	1.46
Toluene	**5.0**		1.2		ppb v/v			09/01/16 18:56	1.46
trans-1,2-Dichloroethene	ND		0.80		ppb v/v			09/01/16 18:56	1.46

Client Sample ID: SG-218

Date Collected: 08/24/16 11:10
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-9

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Trichloroethene	**5.7**		0.40		ppb v/v			09/01/16 18:56	1.46
Trichlorofluoromethane	ND		0.80		ppb v/v			09/01/16 18:56	1.46
Vinyl chloride	ND		0.40		ppb v/v			09/01/16 18:56	1.46

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**19**		4.4		ug/m3			09/01/16 18:56	1.46
1,1,2,2-Tetrachloroethane	ND		5.5		ug/m3			09/01/16 18:56	1.46
1,1,2-Trichloroethane	ND		4.4		ug/m3			09/01/16 18:56	1.46
1,1,2-Trichlorotrifluoroethane	**11**		6.1		ug/m3			09/01/16 18:56	1.46
1,1-Dichloroethane	**4.7**		3.2		ug/m3			09/01/16 18:56	1.46
1,1-Dichloroethene	ND		3.2		ug/m3			09/01/16 18:56	1.46
1,2,4-Trichlorobenzene	ND		5.9		ug/m3			09/01/16 18:56	1.46
1,2,4-Trimethylbenzene	**8.5**		3.9		ug/m3			09/01/16 18:56	1.46
1,2-Dibromoethane	ND		6.1		ug/m3			09/01/16 18:56	1.46
1,2-Dichlorobenzene	ND		4.8		ug/m3			09/01/16 18:56	1.46
1,2-Dichloroethane	ND		3.2		ug/m3			09/01/16 18:56	1.46
1,2-Dichloropropane	ND		3.7		ug/m3			09/01/16 18:56	1.46
1,2-Dichlorotetrafluoroethane	ND		5.6		ug/m3			09/01/16 18:56	1.46
1,3,5-Trimethylbenzene	ND		3.9		ug/m3			09/01/16 18:56	1.46
1,3-Dichlorobenzene	ND		4.8		ug/m3			09/01/16 18:56	1.46
1,4-Dichlorobenzene	**90**		4.8		ug/m3			09/01/16 18:56	1.46
1,4-Dioxane	ND		7.2		ug/m3			09/01/16 18:56	1.46
2,2,4-Trimethylpentane	ND		9.3		ug/m3			09/01/16 18:56	1.46
2-Butanone	ND		9.4		ug/m3			09/01/16 18:56	1.46
4-Methyl-2-pentanone (MIBK)	ND		8.2		ug/m3			09/01/16 18:56	1.46
Benzene	**6.8**		2.6		ug/m3			09/01/16 18:56	1.46
Benzyl chloride	ND		8.3		ug/m3			09/01/16 18:56	1.46
Bromodichloromethane	**38**		5.4		ug/m3			09/01/16 18:56	1.46
Bromoform	ND		8.3		ug/m3			09/01/16 18:56	1.46
Bromomethane	ND		3.1		ug/m3			09/01/16 18:56	1.46
Carbon tetrachloride	ND		2.5		ug/m3			09/01/16 18:56	1.46
Chlorobenzene	ND		3.7		ug/m3			09/01/16 18:56	1.46
Chloroethane	ND		2.1		ug/m3			09/01/16 18:56	1.46
Chloroform	**140**		3.9		ug/m3			09/01/16 18:56	1.46
Chloromethane	ND		4.1		ug/m3			09/01/16 18:56	1.46
cis-1,2-Dichloroethene	ND		3.2		ug/m3			09/01/16 18:56	1.46
cis-1,3-Dichloropropene	ND		3.6		ug/m3			09/01/16 18:56	1.46
Cyclohexane	ND		6.9		ug/m3			09/01/16 18:56	1.46
Dibromochloromethane	**14**		6.8		ug/m3			09/01/16 18:56	1.46
Dichlorodifluoromethane	**4.1**		4.0		ug/m3			09/01/16 18:56	1.46
Ethanol	ND		38		ug/m3			09/01/16 18:56	1.46
Ethylbenzene	**4.9**		3.5		ug/m3			09/01/16 18:56	1.46
Hexachlorobutadiene	ND		8.5		ug/m3			09/01/16 18:56	1.46
Hexane	**16**		7.0		ug/m3			09/01/16 18:56	1.46
Methyl tert-butyl ether	ND		5.8		ug/m3			09/01/16 18:56	1.46
Methylene Chloride	ND		6.9		ug/m3			09/01/16 18:56	1.46
m-Xylene & p-Xylene	**20**		3.5		ug/m3			09/01/16 18:56	1.46
o-Xylene	**7.7**		3.5		ug/m3			09/01/16 18:56	1.46

Client Sample ID: SG-218

Lab Sample ID: 140-5720-9

Date Collected: 08/24/16 11:10
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		3.4		ug/m3			09/01/16 18:56	1.46
t-Butyl alcohol	ND		9.7		ug/m3			09/01/16 18:56	1.46
Tetrachloroethene	**230**		5.4		ug/m3			09/01/16 18:56	1.46
Toluene	**19**		4.5		ug/m3			09/01/16 18:56	1.46
trans-1,2-Dichloroethene	ND		3.2		ug/m3			09/01/16 18:56	1.46
trans-1,3-Dichloropropene	ND		3.6		ug/m3			09/01/16 18:56	1.46
Trichloroethene	**31**		2.1		ug/m3			09/01/16 18:56	1.46
Trichlorofluoromethane	ND		4.5		ug/m3			09/01/16 18:56	1.46
Vinyl chloride	ND		1.0		ug/m3			09/01/16 18:56	1.46

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*09/01/16 18:56*	*1.46*

Client Sample ID: SG-216

Lab Sample ID: 140-5720-10

Date Collected: 08/24/16 11:13
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**6.5**		0.62		ppb v/v			09/01/16 19:43	4.65
1,1,2,2-Tetrachloroethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,1,2-Trichloroethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,1,2-Trichlorotrifluoroethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,1-Dichloroethane	**0.99**		0.62		ppb v/v			09/01/16 19:43	4.65
1,1-Dichloroethene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,2,4-Trichlorobenzene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,2,4-Trimethylbenzene	**2.1**		0.62		ppb v/v			09/01/16 19:43	4.65
1,2-Dibromoethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,2-Dichlorobenzene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,2-Dichloroethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,2-Dichloropropane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,2-Dichlorotetrafluoroethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,3,5-Trimethylbenzene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,3-Dichlorobenzene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
1,4-Dichlorobenzene	**18**		0.62		ppb v/v			09/01/16 19:43	4.65
1,4-Dioxane	ND		1.6		ppb v/v			09/01/16 19:43	4.65
2,2,4-Trimethylpentane	ND		1.6		ppb v/v			09/01/16 19:43	4.65
2-Butanone	ND		2.5		ppb v/v			09/01/16 19:43	4.65
4-Methyl-2-pentanone (MIBK)	ND		1.6		ppb v/v			09/01/16 19:43	4.65
Benzene	**1.7**		0.62		ppb v/v			09/01/16 19:43	4.65
Benzyl chloride	ND		1.2		ppb v/v			09/01/16 19:43	4.65
Bromodichloromethane	**5.9**		0.62		ppb v/v			09/01/16 19:43	4.65
Bromoform	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Bromomethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Carbon tetrachloride	ND		0.31		ppb v/v			09/01/16 19:43	4.65
Chlorobenzene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Chloroethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Chloroform	**30**		0.62		ppb v/v			09/01/16 19:43	4.65

Client Sample ID: SG-216
Lab Sample ID: 140-5720-10
Date Collected: 08/24/16 11:13
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.6		ppb v/v			09/01/16 19:43	4.65
cis-1,2-Dichloroethene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
cis-1,3-Dichloropropene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Cyclohexane	ND		1.6		ppb v/v			09/01/16 19:43	4.65
Dibromochloromethane	**2.0**		0.62		ppb v/v			09/01/16 19:43	4.65
Dichlorodifluoromethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Ethanol	ND		16		ppb v/v			09/01/16 19:43	4.65
Ethylbenzene	**1.3**		0.62		ppb v/v			09/01/16 19:43	4.65
Hexachlorobutadiene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Hexane	**3.0**		1.6		ppb v/v			09/01/16 19:43	4.65
Methyl tert-butyl ether	ND		1.2		ppb v/v			09/01/16 19:43	4.65
Methylene Chloride	ND		1.6		ppb v/v			09/01/16 19:43	4.65
m-Xylene & p-Xylene	**5.2**		0.62		ppb v/v			09/01/16 19:43	4.65
o-Xylene	**2.0**		0.62		ppb v/v			09/01/16 19:43	4.65
Styrene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
t-Butyl alcohol	ND		2.5		ppb v/v			09/01/16 19:43	4.65
Tetrachloroethene	**65**		0.62		ppb v/v			09/01/16 19:43	4.65
Toluene	**5.4**		0.93		ppb v/v			09/01/16 19:43	4.65
trans-1,2-Dichloroethene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
trans-1,3-Dichloropropene	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Trichloroethene	**12**		0.31		ppb v/v			09/01/16 19:43	4.65
Trichlorofluoromethane	ND		0.62		ppb v/v			09/01/16 19:43	4.65
Vinyl chloride	ND		0.31		ppb v/v			09/01/16 19:43	4.65

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**35**		3.4		ug/m3			09/01/16 19:43	4.65
1,1,2,2-Tetrachloroethane	ND		4.3		ug/m3			09/01/16 19:43	4.65
1,1,2-Trichloroethane	ND		3.4		ug/m3			09/01/16 19:43	4.65
1,1,2-Trichlorotrifluoroethane	ND		4.8		ug/m3			09/01/16 19:43	4.65
1,1-Dichloroethane	**4.0**		2.5		ug/m3			09/01/16 19:43	4.65
1,1-Dichloroethene	ND		2.5		ug/m3			09/01/16 19:43	4.65
1,2,4-Trichlorobenzene	ND		4.6		ug/m3			09/01/16 19:43	4.65
1,2,4-Trimethylbenzene	**10**		3.0		ug/m3			09/01/16 19:43	4.65
1,2-Dibromoethane	ND		4.8		ug/m3			09/01/16 19:43	4.65
1,2-Dichlorobenzene	ND		3.7		ug/m3			09/01/16 19:43	4.65
1,2-Dichloroethane	ND		2.5		ug/m3			09/01/16 19:43	4.65
1,2-Dichloropropane	ND		2.9		ug/m3			09/01/16 19:43	4.65
1,2-Dichlorotetrafluoroethane	ND		4.3		ug/m3			09/01/16 19:43	4.65
1,3,5-Trimethylbenzene	ND		3.0		ug/m3			09/01/16 19:43	4.65
1,3-Dichlorobenzene	ND		3.7		ug/m3			09/01/16 19:43	4.65
1,4-Dichlorobenzene	**110**		3.7		ug/m3			09/01/16 19:43	4.65
1,4-Dioxane	ND		5.6		ug/m3			09/01/16 19:43	4.65
2,2,4-Trimethylpentane	ND		7.2		ug/m3			09/01/16 19:43	4.65
2-Butanone	ND		7.3		ug/m3			09/01/16 19:43	4.65
4-Methyl-2-pentanone (MIBK)	ND		6.3		ug/m3			09/01/16 19:43	4.65
Benzene	**5.5**		2.0		ug/m3			09/01/16 19:43	4.65
Benzyl chloride	ND		6.4		ug/m3			09/01/16 19:43	4.65
Bromodichloromethane	**39**		4.2		ug/m3			09/01/16 19:43	4.65
Bromoform	ND		6.4		ug/m3			09/01/16 19:43	4.65

Client Sample ID: SG-216
Lab Sample ID: 140-5720-10

Date Collected: 08/24/16 11:13
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		2.4		ug/m3			09/01/16 19:43	4.65
Carbon tetrachloride	ND		2.0		ug/m3			09/01/16 19:43	4.65
Chlorobenzene	ND		2.9		ug/m3			09/01/16 19:43	4.65
Chloroethane	ND		1.6		ug/m3			09/01/16 19:43	4.65
Chloroform	**150**		3.0		ug/m3			09/01/16 19:43	4.65
Chloromethane	ND		3.2		ug/m3			09/01/16 19:43	4.65
cis-1,2-Dichloroethene	ND		2.5		ug/m3			09/01/16 19:43	4.65
cis-1,3-Dichloropropene	ND		2.8		ug/m3			09/01/16 19:43	4.65
Cyclohexane	ND		5.3		ug/m3			09/01/16 19:43	4.65
Dibromochloromethane	**17**		5.3		ug/m3			09/01/16 19:43	4.65
Dichlorodifluoromethane	ND		3.1		ug/m3			09/01/16 19:43	4.65
Ethanol	ND		29		ug/m3			09/01/16 19:43	4.65
Ethylbenzene	**5.6**		2.7		ug/m3			09/01/16 19:43	4.65
Hexachlorobutadiene	ND		6.6		ug/m3			09/01/16 19:43	4.65
Hexane	**11**		5.5		ug/m3			09/01/16 19:43	4.65
Methyl tert-butyl ether	ND		4.5		ug/m3			09/01/16 19:43	4.65
Methylene Chloride	ND		5.4		ug/m3			09/01/16 19:43	4.65
m-Xylene & p-Xylene	**22**		2.7		ug/m3			09/01/16 19:43	4.65
o-Xylene	**8.8**		2.7		ug/m3			09/01/16 19:43	4.65
Styrene	ND		2.6		ug/m3			09/01/16 19:43	4.65
t-Butyl alcohol	ND		7.5		ug/m3			09/01/16 19:43	4.65
Tetrachloroethene	**440**		4.2		ug/m3			09/01/16 19:43	4.65
Toluene	**20**		3.5		ug/m3			09/01/16 19:43	4.65
trans-1,2-Dichloroethene	ND		2.5		ug/m3			09/01/16 19:43	4.65
trans-1,3-Dichloropropene	ND		2.8		ug/m3			09/01/16 19:43	4.65
Trichloroethene	**65**		1.7		ug/m3			09/01/16 19:43	4.65
Trichlorofluoromethane	ND		3.5		ug/m3			09/01/16 19:43	4.65
Vinyl chloride	ND		0.79		ug/m3			09/01/16 19:43	4.65

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*09/01/16 19:43*	*4.65*

Client Sample ID: SG-219
Lab Sample ID: 140-5720-11

Date Collected: 08/24/16 11:16
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,1,2,2-Tetrachloroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,1,2-Trichloroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,1,2-Trichlorotrifluoroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,1-Dichloroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,1-Dichloroethene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,2,4-Trichlorobenzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,2,4-Trimethylbenzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,2-Dibromoethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,2-Dichlorobenzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47

Client Sample ID: SG-219
Date Collected: 08/24/16 11:16
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-11
Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,2-Dichloropropane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,2-Dichlorotetrafluoroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,3,5-Trimethylbenzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,3-Dichlorobenzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
1,4-Dichlorobenzene	**12**		3.9		ppb v/v			09/01/16 20:28	14.47
1,4-Dioxane	ND		9.6		ppb v/v			09/01/16 20:28	14.47
2,2,4-Trimethylpentane	**440**		9.6		ppb v/v			09/01/16 20:28	14.47
2-Butanone	ND		15		ppb v/v			09/01/16 20:28	14.47
4-Methyl-2-pentanone (MIBK)	ND		9.6		ppb v/v			09/01/16 20:28	14.47
Benzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Benzyl chloride	ND		7.7		ppb v/v			09/01/16 20:28	14.47
Bromodichloromethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Bromoform	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Bromomethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Carbon tetrachloride	ND		1.9		ppb v/v			09/01/16 20:28	14.47
Chlorobenzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Chloroethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Chloroform	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Chloromethane	ND		9.6		ppb v/v			09/01/16 20:28	14.47
cis-1,2-Dichloroethene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
cis-1,3-Dichloropropene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Cyclohexane	**170**		9.6		ppb v/v			09/01/16 20:28	14.47
Dibromochloromethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Dichlorodifluoromethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Ethanol	ND		96		ppb v/v			09/01/16 20:28	14.47
Ethylbenzene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Hexachlorobutadiene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Hexane	**260**		9.6		ppb v/v			09/01/16 20:28	14.47
Methyl tert-butyl ether	ND		7.7		ppb v/v			09/01/16 20:28	14.47
Methylene Chloride	ND		9.6		ppb v/v			09/01/16 20:28	14.47
m-Xylene & p-Xylene	**8.3**		3.9		ppb v/v			09/01/16 20:28	14.47
o-Xylene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Styrene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
t-Butyl alcohol	ND		15		ppb v/v			09/01/16 20:28	14.47
Tetrachloroethene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Toluene	**6.2**		5.8		ppb v/v			09/01/16 20:28	14.47
trans-1,2-Dichloroethene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
trans-1,3-Dichloropropene	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Trichloroethene	ND		1.9		ppb v/v			09/01/16 20:28	14.47
Trichlorofluoromethane	ND		3.9		ppb v/v			09/01/16 20:28	14.47
Vinyl chloride	**18**		1.9		ppb v/v			09/01/16 20:28	14.47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		21		ug/m3			09/01/16 20:28	14.47
1,1,2,2-Tetrachloroethane	ND		26		ug/m3			09/01/16 20:28	14.47
1,1,2-Trichloroethane	ND		21		ug/m3			09/01/16 20:28	14.47
1,1,2-Trichlorotrifluoroethane	ND		30		ug/m3			09/01/16 20:28	14.47
1,1-Dichloroethane	ND		16		ug/m3			09/01/16 20:28	14.47

Client Sample ID: SG-219
Lab Sample ID: 140-5720-11
Date Collected: 08/24/16 11:16
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		15		ug/m3			09/01/16 20:28	14.47
1,2,4-Trichlorobenzene	ND		29		ug/m3			09/01/16 20:28	14.47
1,2,4-Trimethylbenzene	ND		19		ug/m3			09/01/16 20:28	14.47
1,2-Dibromoethane	ND		30		ug/m3			09/01/16 20:28	14.47
1,2-Dichlorobenzene	ND		23		ug/m3			09/01/16 20:28	14.47
1,2-Dichloroethane	ND		16		ug/m3			09/01/16 20:28	14.47
1,2-Dichloropropane	ND		18		ug/m3			09/01/16 20:28	14.47
1,2-Dichlorotetrafluoroethane	ND		27		ug/m3			09/01/16 20:28	14.47
1,3,5-Trimethylbenzene	ND		19		ug/m3			09/01/16 20:28	14.47
1,3-Dichlorobenzene	ND		23		ug/m3			09/01/16 20:28	14.47
1,4-Dichlorobenzene	**75**		23		ug/m3			09/01/16 20:28	14.47
1,4-Dioxane	ND		35		ug/m3			09/01/16 20:28	14.47
2,2,4-Trimethylpentane	**2100**		45		ug/m3			09/01/16 20:28	14.47
2-Butanone	ND		46		ug/m3			09/01/16 20:28	14.47
4-Methyl-2-pentanone (MIBK)	ND		40		ug/m3			09/01/16 20:28	14.47
Benzene	ND		12		ug/m3			09/01/16 20:28	14.47
Benzyl chloride	ND		40		ug/m3			09/01/16 20:28	14.47
Bromodichloromethane	ND		26		ug/m3			09/01/16 20:28	14.47
Bromoform	ND		40		ug/m3			09/01/16 20:28	14.47
Bromomethane	ND		15		ug/m3			09/01/16 20:28	14.47
Carbon tetrachloride	ND		12		ug/m3			09/01/16 20:28	14.47
Chlorobenzene	ND		18		ug/m3			09/01/16 20:28	14.47
Chloroethane	ND		10		ug/m3			09/01/16 20:28	14.47
Chloroform	ND		19		ug/m3			09/01/16 20:28	14.47
Chloromethane	ND		20		ug/m3			09/01/16 20:28	14.47
cis-1,2-Dichloroethene	ND		15		ug/m3			09/01/16 20:28	14.47
cis-1,3-Dichloropropene	ND		18		ug/m3			09/01/16 20:28	14.47
Cyclohexane	**570**		33		ug/m3			09/01/16 20:28	14.47
Dibromochloromethane	ND		33		ug/m3			09/01/16 20:28	14.47
Dichlorodifluoromethane	ND		19		ug/m3			09/01/16 20:28	14.47
Ethanol	ND		180		ug/m3			09/01/16 20:28	14.47
Ethylbenzene	ND		17		ug/m3			09/01/16 20:28	14.47
Hexachlorobutadiene	ND		41		ug/m3			09/01/16 20:28	14.47
Hexane	**920**		34		ug/m3			09/01/16 20:28	14.47
Methyl tert-butyl ether	ND		28		ug/m3			09/01/16 20:28	14.47
Methylene Chloride	ND		34		ug/m3			09/01/16 20:28	14.47
m-Xylene & p-Xylene	**36**		17		ug/m3			09/01/16 20:28	14.47
o-Xylene	ND		17		ug/m3			09/01/16 20:28	14.47
Styrene	ND		16		ug/m3			09/01/16 20:28	14.47
t-Butyl alcohol	ND		47		ug/m3			09/01/16 20:28	14.47
Tetrachloroethene	ND		26		ug/m3			09/01/16 20:28	14.47
Toluene	**23**		22		ug/m3			09/01/16 20:28	14.47
trans-1,2-Dichloroethene	ND		15		ug/m3			09/01/16 20:28	14.47
trans-1,3-Dichloropropene	ND		18		ug/m3			09/01/16 20:28	14.47
Trichloroethene	ND		10		ug/m3			09/01/16 20:28	14.47
Trichlorofluoromethane	ND		22		ug/m3			09/01/16 20:28	14.47
Vinyl chloride	**45**		4.9		ug/m3			09/01/16 20:28	14.47

Client Sample ID: SG-219

Lab Sample ID: 140-5720-11

Date Collected: 08/24/16 11:16
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		60 - 140		09/01/16 20:28	14.47

Client Sample ID: SG-220

Lab Sample ID: 140-5720-12

Date Collected: 08/24/16 11:19
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.2**		0.39		ppb v/v			09/01/16 21:12	1.47
1,1,2,2-Tetrachloroethane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,1,2-Trichloroethane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,1,2-Trichlorotrifluoroethane	**0.73**		0.39		ppb v/v			09/01/16 21:12	1.47
1,1-Dichloroethane	**1.2**		0.39		ppb v/v			09/01/16 21:12	1.47
1,1-Dichloroethene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,2,4-Trichlorobenzene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,2,4-Trimethylbenzene	**2.8**		0.39		ppb v/v			09/01/16 21:12	1.47
1,2-Dibromoethane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,2-Dichlorobenzene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,2-Dichloroethane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,2-Dichloropropane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,2-Dichlorotetrafluoroethane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,3,5-Trimethylbenzene	**0.94**		0.39		ppb v/v			09/01/16 21:12	1.47
1,3-Dichlorobenzene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
1,4-Dichlorobenzene	**18**		0.39		ppb v/v			09/01/16 21:12	1.47
1,4-Dioxane	ND		0.98		ppb v/v			09/01/16 21:12	1.47
2,2,4-Trimethylpentane	ND		0.98		ppb v/v			09/01/16 21:12	1.47
2-Butanone	**9.4**		1.6		ppb v/v			09/01/16 21:12	1.47
4-Methyl-2-pentanone (MIBK)	**1.2**	**cn**	0.98		ppb v/v			09/01/16 21:12	1.47
Benzene	**2.1**		0.39		ppb v/v			09/01/16 21:12	1.47
Benzyl chloride	ND		0.78		ppb v/v			09/01/16 21:12	1.47
Bromodichloromethane	**8.1**		0.39		ppb v/v			09/01/16 21:12	1.47
Bromoform	ND		0.39		ppb v/v			09/01/16 21:12	1.47
Bromomethane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
Carbon tetrachloride	ND		0.20		ppb v/v			09/01/16 21:12	1.47
Chlorobenzene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
Chloroethane	ND		0.39		ppb v/v			09/01/16 21:12	1.47
Chloroform	**27**		0.39		ppb v/v			09/01/16 21:12	1.47
Chloromethane	ND		0.98		ppb v/v			09/01/16 21:12	1.47
cis-1,2-Dichloroethene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
cis-1,3-Dichloropropene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
Cyclohexane	**1.3**		0.98		ppb v/v			09/01/16 21:12	1.47
Dibromochloromethane	**2.9**		0.39		ppb v/v			09/01/16 21:12	1.47
Dichlorodifluoromethane	**0.46**		0.39		ppb v/v			09/01/16 21:12	1.47
Ethanol	**11**		9.8		ppb v/v			09/01/16 21:12	1.47
Ethylbenzene	**1.7**		0.39		ppb v/v			09/01/16 21:12	1.47
Hexachlorobutadiene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
Hexane	**4.2**		0.98		ppb v/v			09/01/16 21:12	1.47
Methyl tert-butyl ether	ND		0.78		ppb v/v			09/01/16 21:12	1.47

Client Sample ID: SG-220

Date Collected: 08/24/16 11:19
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-12

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**4.2**		0.98		ppb v/v			09/01/16 21:12	1.47
m-Xylene & p-Xylene	**6.6**		0.39		ppb v/v			09/01/16 21:12	1.47
o-Xylene	**2.7**		0.39		ppb v/v			09/01/16 21:12	1.47
Styrene	**0.61**		0.39		ppb v/v			09/01/16 21:12	1.47
t-Butyl alcohol	**2.5**		1.6		ppb v/v			09/01/16 21:12	1.47
Tetrachloroethene	**33**		0.39		ppb v/v			09/01/16 21:12	1.47
Toluene	**7.5**		0.59		ppb v/v			09/01/16 21:12	1.47
trans-1,2-Dichloroethene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
trans-1,3-Dichloropropene	ND		0.39		ppb v/v			09/01/16 21:12	1.47
Trichloroethene	**2.4**		0.20		ppb v/v			09/01/16 21:12	1.47
Trichlorofluoromethane	**0.75**		0.39		ppb v/v			09/01/16 21:12	1.47
Vinyl chloride	ND		0.20		ppb v/v			09/01/16 21:12	1.47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**23**		2.1		ug/m3			09/01/16 21:12	1.47
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			09/01/16 21:12	1.47
1,1,2-Trichloroethane	ND		2.1		ug/m3			09/01/16 21:12	1.47
1,1,2-Trichlorotrifluoroethane	**5.6**		3.0		ug/m3			09/01/16 21:12	1.47
1,1-Dichloroethane	**4.8**		1.6		ug/m3			09/01/16 21:12	1.47
1,1-Dichloroethene	ND		1.6		ug/m3			09/01/16 21:12	1.47
1,2,4-Trichlorobenzene	ND		2.9		ug/m3			09/01/16 21:12	1.47
1,2,4-Trimethylbenzene	**14**		1.9		ug/m3			09/01/16 21:12	1.47
1,2-Dibromoethane	ND		3.0		ug/m3			09/01/16 21:12	1.47
1,2-Dichlorobenzene	ND		2.4		ug/m3			09/01/16 21:12	1.47
1,2-Dichloroethane	ND		1.6		ug/m3			09/01/16 21:12	1.47
1,2-Dichloropropane	ND		1.8		ug/m3			09/01/16 21:12	1.47
1,2-Dichlorotetrafluoroethane	ND		2.7		ug/m3			09/01/16 21:12	1.47
1,3,5-Trimethylbenzene	**4.6**		1.9		ug/m3			09/01/16 21:12	1.47
1,3-Dichlorobenzene	ND		2.4		ug/m3			09/01/16 21:12	1.47
1,4-Dichlorobenzene	**110**		2.4		ug/m3			09/01/16 21:12	1.47
1,4-Dioxane	ND		3.5		ug/m3			09/01/16 21:12	1.47
2,2,4-Trimethylpentane	ND		4.6		ug/m3			09/01/16 21:12	1.47
2-Butanone	**28**		4.6		ug/m3			09/01/16 21:12	1.47
4-Methyl-2-pentanone (MIBK)	**5.0**	**cn**	4.0		ug/m3			09/01/16 21:12	1.47
Benzene	**6.7**		1.3		ug/m3			09/01/16 21:12	1.47
Benzyl chloride	ND		4.1		ug/m3			09/01/16 21:12	1.47
Bromodichloromethane	**54**		2.6		ug/m3			09/01/16 21:12	1.47
Bromoform	ND		4.1		ug/m3			09/01/16 21:12	1.47
Bromomethane	ND		1.5		ug/m3			09/01/16 21:12	1.47
Carbon tetrachloride	ND		1.2		ug/m3			09/01/16 21:12	1.47
Chlorobenzene	ND		1.8		ug/m3			09/01/16 21:12	1.47
Chloroethane	ND		1.0		ug/m3			09/01/16 21:12	1.47
Chloroform	**130**		1.9		ug/m3			09/01/16 21:12	1.47
Chloromethane	ND		2.0		ug/m3			09/01/16 21:12	1.47
cis-1,2-Dichloroethene	ND		1.6		ug/m3			09/01/16 21:12	1.47
cis-1,3-Dichloropropene	ND		1.8		ug/m3			09/01/16 21:12	1.47
Cyclohexane	**4.5**		3.4		ug/m3			09/01/16 21:12	1.47
Dibromochloromethane	**25**		3.3		ug/m3			09/01/16 21:12	1.47
Dichlorodifluoromethane	**2.3**		1.9		ug/m3			09/01/16 21:12	1.47

Client Sample ID: SG-220

Lab Sample ID: 140-5720-12

Date Collected: 08/24/16 11:19
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	**20**		18		ug/m3			09/01/16 21:12	1.47
Ethylbenzene	**7.3**		1.7		ug/m3			09/01/16 21:12	1.47
Hexachlorobutadiene	ND		4.2		ug/m3			09/01/16 21:12	1.47
Hexane	**15**		3.5		ug/m3			09/01/16 21:12	1.47
Methyl tert-butyl ether	ND		2.8		ug/m3			09/01/16 21:12	1.47
Methylene Chloride	**15**		3.4		ug/m3			09/01/16 21:12	1.47
m-Xylene & p-Xylene	**29**		1.7		ug/m3			09/01/16 21:12	1.47
o-Xylene	**12**		1.7		ug/m3			09/01/16 21:12	1.47
Styrene	**2.6**		1.7		ug/m3			09/01/16 21:12	1.47
t-Butyl alcohol	**7.6**		4.8		ug/m3			09/01/16 21:12	1.47
Tetrachloroethene	**220**		2.7		ug/m3			09/01/16 21:12	1.47
Toluene	**28**		2.2		ug/m3			09/01/16 21:12	1.47
trans-1,2-Dichloroethene	ND		1.6		ug/m3			09/01/16 21:12	1.47
trans-1,3-Dichloropropene	ND		1.8		ug/m3			09/01/16 21:12	1.47
Trichloroethene	**13**		1.1		ug/m3			09/01/16 21:12	1.47
Trichlorofluoromethane	**4.2**		2.2		ug/m3			09/01/16 21:12	1.47
Vinyl chloride	ND		0.50		ug/m3			09/01/16 21:12	1.47

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*09/01/16 21:12*	*1.47*

Client Sample ID: SG-222

Lab Sample ID: 140-5720-13

Date Collected: 08/24/16 11:29
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,1,2,2-Tetrachloroethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,1,2-Trichloroethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,1,2-Trichlorotrifluoroethane	**750**	**E**	3.0		ppb v/v			09/01/16 21:55	1.51
1,1-Dichloroethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,1-Dichloroethene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,2,4-Trichlorobenzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,2,4-Trimethylbenzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,2-Dibromoethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,2-Dichlorobenzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,2-Dichloroethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,2-Dichloropropane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,2-Dichlorotetrafluoroethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,3,5-Trimethylbenzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,3-Dichlorobenzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
1,4-Dichlorobenzene	**11**		3.0		ppb v/v			09/01/16 21:55	1.51
1,4-Dioxane	ND		7.6		ppb v/v			09/01/16 21:55	1.51
2,2,4-Trimethylpentane	ND		7.6		ppb v/v			09/01/16 21:55	1.51
2-Butanone	ND		12		ppb v/v			09/01/16 21:55	1.51
4-Methyl-2-pentanone (MIBK)	ND		7.6		ppb v/v			09/01/16 21:55	1.51
Benzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51

Client Sample ID: SG-222

Date Collected: 08/24/16 11:29
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-13

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		6.0		ppb v/v			09/01/16 21:55	1.51
Bromodichloromethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Bromoform	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Bromomethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Carbon tetrachloride	ND		1.5		ppb v/v			09/01/16 21:55	1.51
Chlorobenzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Chloroethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Chloroform	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Chloromethane	ND		7.6		ppb v/v			09/01/16 21:55	1.51
cis-1,2-Dichloroethene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
cis-1,3-Dichloropropene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Cyclohexane	ND		7.6		ppb v/v			09/01/16 21:55	1.51
Dibromochloromethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Dichlorodifluoromethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Ethanol	ND		76		ppb v/v			09/01/16 21:55	1.51
Ethylbenzene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Hexachlorobutadiene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Hexane	ND		7.6		ppb v/v			09/01/16 21:55	1.51
Methyl tert-butyl ether	ND		6.0		ppb v/v			09/01/16 21:55	1.51
Methylene Chloride	ND		7.6		ppb v/v			09/01/16 21:55	1.51
m-Xylene & p-Xylene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
o-Xylene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Styrene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
t-Butyl alcohol	ND		12		ppb v/v			09/01/16 21:55	1.51
Tetrachloroethene	**120**		3.0		ppb v/v			09/01/16 21:55	1.51
Toluene	**4.5**		4.5		ppb v/v			09/01/16 21:55	1.51
trans-1,2-Dichloroethene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
trans-1,3-Dichloropropene	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Trichloroethene	ND		1.5		ppb v/v			09/01/16 21:55	1.51
Trichlorofluoromethane	ND		3.0		ppb v/v			09/01/16 21:55	1.51
Vinyl chloride	ND		1.5		ppb v/v			09/01/16 21:55	1.51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		16		ug/m3			09/01/16 21:55	1.51
1,1,2,2-Tetrachloroethane	ND		21		ug/m3			09/01/16 21:55	1.51
1,1,2-Trichloroethane	ND		16		ug/m3			09/01/16 21:55	1.51
1,1,2-Trichlorotrifluoroethane	**5700**	**E**	23		ug/m3			09/01/16 21:55	1.51
1,1-Dichloroethane	ND		12		ug/m3			09/01/16 21:55	1.51
1,1-Dichloroethene	ND		12		ug/m3			09/01/16 21:55	1.51
1,2,4-Trichlorobenzene	ND		22		ug/m3			09/01/16 21:55	1.51
1,2,4-Trimethylbenzene	ND		15		ug/m3			09/01/16 21:55	1.51
1,2-Dibromoethane	ND		23		ug/m3			09/01/16 21:55	1.51
1,2-Dichlorobenzene	ND		18		ug/m3			09/01/16 21:55	1.51
1,2-Dichloroethane	ND		12		ug/m3			09/01/16 21:55	1.51
1,2-Dichloropropane	ND		14		ug/m3			09/01/16 21:55	1.51
1,2-Dichlorotetrafluoroethane	ND		21		ug/m3			09/01/16 21:55	1.51
1,3,5-Trimethylbenzene	ND		15		ug/m3			09/01/16 21:55	1.51
1,3-Dichlorobenzene	ND		18		ug/m3			09/01/16 21:55	1.51
1,4-Dichlorobenzene	**63**		18		ug/m3			09/01/16 21:55	1.51

Client Sample ID: SG-222

Date Collected: 08/24/16 11:29
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Lab Sample ID: 140-5720-13

Matrix: Air

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		27		ug/m3			09/01/16 21:55	1.51
2,2,4-Trimethylpentane	ND		35		ug/m3			09/01/16 21:55	1.51
2-Butanone	ND		36		ug/m3			09/01/16 21:55	1.51
4-Methyl-2-pentanone (MIBK)	ND		31		ug/m3			09/01/16 21:55	1.51
Benzene	ND		9.6		ug/m3			09/01/16 21:55	1.51
Benzyl chloride	ND		31		ug/m3			09/01/16 21:55	1.51
Bromodichloromethane	ND		20		ug/m3			09/01/16 21:55	1.51
Bromoform	ND		31		ug/m3			09/01/16 21:55	1.51
Bromomethane	ND		12		ug/m3			09/01/16 21:55	1.51
Carbon tetrachloride	ND		9.5		ug/m3			09/01/16 21:55	1.51
Chlorobenzene	ND		14		ug/m3			09/01/16 21:55	1.51
Chloroethane	ND		8.0		ug/m3			09/01/16 21:55	1.51
Chloroform	ND		15		ug/m3			09/01/16 21:55	1.51
Chloromethane	ND		16		ug/m3			09/01/16 21:55	1.51
cis-1,2-Dichloroethene	ND		12		ug/m3			09/01/16 21:55	1.51
cis-1,3-Dichloropropene	ND		14		ug/m3			09/01/16 21:55	1.51
Cyclohexane	ND		26		ug/m3			09/01/16 21:55	1.51
Dibromochloromethane	ND		26		ug/m3			09/01/16 21:55	1.51
Dichlorodifluoromethane	ND		15		ug/m3			09/01/16 21:55	1.51
Ethanol	ND		140		ug/m3			09/01/16 21:55	1.51
Ethylbenzene	ND		13		ug/m3			09/01/16 21:55	1.51
Hexachlorobutadiene	ND		32		ug/m3			09/01/16 21:55	1.51
Hexane	ND		27		ug/m3			09/01/16 21:55	1.51
Methyl tert-butyl ether	ND		22		ug/m3			09/01/16 21:55	1.51
Methylene Chloride	ND		26		ug/m3			09/01/16 21:55	1.51
m-Xylene & p-Xylene	ND		13		ug/m3			09/01/16 21:55	1.51
o-Xylene	ND		13		ug/m3			09/01/16 21:55	1.51
Styrene	ND		13		ug/m3			09/01/16 21:55	1.51
t-Butyl alcohol	ND		37		ug/m3			09/01/16 21:55	1.51
Tetrachloroethene	**830**		20		ug/m3			09/01/16 21:55	1.51
Toluene	**17**		17		ug/m3			09/01/16 21:55	1.51
trans-1,2-Dichloroethene	ND		12		ug/m3			09/01/16 21:55	1.51
trans-1,3-Dichloropropene	ND		14		ug/m3			09/01/16 21:55	1.51
Trichloroethene	ND		8.1		ug/m3			09/01/16 21:55	1.51
Trichlorofluoromethane	ND		17		ug/m3			09/01/16 21:55	1.51
Vinyl chloride	ND		3.9		ug/m3			09/01/16 21:55	1.51

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*09/01/16 21:55*	*1.51*

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**570**	**D**	5.5		ppb v/v			09/02/16 22:00	1.51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane	**4400**	**D**	42		ug/m3			09/02/16 22:00	1.51

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*09/02/16 22:00*	*1.51*

Client Sample ID: SG-221
Lab Sample ID: 140-5720-14

Date Collected: 08/24/16 11:28
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,1,2,2-Tetrachloroethane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,1,2-Trichloroethane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,1,2-Trichlorotrifluoroethane	**8000**		52		ppb v/v			09/01/16 22:38	25.98
1,1-Dichloroethane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,1-Dichloroethene	ND		52		ppb v/v			09/01/16 22:38	25.98
1,2,4-Trichlorobenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
1,2,4-Trimethylbenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
1,2-Dibromoethane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,2-Dichlorobenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
1,2-Dichloroethane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,2-Dichloropropane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,2-Dichlorotetrafluoroethane	ND		52		ppb v/v			09/01/16 22:38	25.98
1,3,5-Trimethylbenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
1,3-Dichlorobenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
1,4-Dichlorobenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
1,4-Dioxane	ND		130		ppb v/v			09/01/16 22:38	25.98
2,2,4-Trimethylpentane	ND		130		ppb v/v			09/01/16 22:38	25.98
2-Butanone	ND		210		ppb v/v			09/01/16 22:38	25.98
4-Methyl-2-pentanone (MIBK)	ND		130		ppb v/v			09/01/16 22:38	25.98
Benzene	ND		52		ppb v/v			09/01/16 22:38	25.98
Benzyl chloride	ND		100		ppb v/v			09/01/16 22:38	25.98
Bromodichloromethane	ND		52		ppb v/v			09/01/16 22:38	25.98
Bromoform	ND		52		ppb v/v			09/01/16 22:38	25.98
Bromomethane	ND		52		ppb v/v			09/01/16 22:38	25.98
Carbon tetrachloride	ND		26		ppb v/v			09/01/16 22:38	25.98
Chlorobenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
Chloroethane	ND		52		ppb v/v			09/01/16 22:38	25.98
Chloroform	ND		52		ppb v/v			09/01/16 22:38	25.98
Chloromethane	ND		130		ppb v/v			09/01/16 22:38	25.98
cis-1,2-Dichloroethene	ND		52		ppb v/v			09/01/16 22:38	25.98
cis-1,3-Dichloropropene	ND		52		ppb v/v			09/01/16 22:38	25.98
Cyclohexane	ND		130		ppb v/v			09/01/16 22:38	25.98
Dibromochloromethane	ND		52		ppb v/v			09/01/16 22:38	25.98
Dichlorodifluoromethane	ND		52		ppb v/v			09/01/16 22:38	25.98
Ethanol	ND		1300		ppb v/v			09/01/16 22:38	25.98
Ethylbenzene	ND		52		ppb v/v			09/01/16 22:38	25.98
Hexachlorobutadiene	ND		52		ppb v/v			09/01/16 22:38	25.98
Hexane	ND		130		ppb v/v			09/01/16 22:38	25.98
Methyl tert-butyl ether	ND		100		ppb v/v			09/01/16 22:38	25.98
Methylene Chloride	ND		130		ppb v/v			09/01/16 22:38	25.98
m-Xylene & p-Xylene	ND		52		ppb v/v			09/01/16 22:38	25.98
o-Xylene	ND		52		ppb v/v			09/01/16 22:38	25.98
Styrene	ND		52		ppb v/v			09/01/16 22:38	25.98
t-Butyl alcohol	ND		210		ppb v/v			09/01/16 22:38	25.98
Tetrachloroethene	**150**		52		ppb v/v			09/01/16 22:38	25.98
Toluene	ND		78		ppb v/v			09/01/16 22:38	25.98
trans-1,2-Dichloroethene	ND		52		ppb v/v			09/01/16 22:38	25.98

Client Sample ID: SG-221
Lab Sample ID: 140-5720-14
Date Collected: 08/24/16 11:28
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		52		ppb v/v			09/01/16 22:38	25.98
Trichloroethene	ND		26		ppb v/v			09/01/16 22:38	25.98
Trichlorofluoromethane	ND		52		ppb v/v			09/01/16 22:38	25.98
Vinyl chloride	ND		26		ppb v/v			09/01/16 22:38	25.98

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		280		ug/m3			09/01/16 22:38	25.98
1,1,2,2-Tetrachloroethane	ND		360		ug/m3			09/01/16 22:38	25.98
1,1,2-Trichloroethane	ND		280		ug/m3			09/01/16 22:38	25.98
1,1,2-Trichlorotrifluoroethane	**62000**		400		ug/m3			09/01/16 22:38	25.98
1,1-Dichloroethane	ND		210		ug/m3			09/01/16 22:38	25.98
1,1-Dichloroethene	ND		210		ug/m3			09/01/16 22:38	25.98
1,2,4-Trichlorobenzene	ND		390		ug/m3			09/01/16 22:38	25.98
1,2,4-Trimethylbenzene	ND		260		ug/m3			09/01/16 22:38	25.98
1,2-Dibromoethane	ND		400		ug/m3			09/01/16 22:38	25.98
1,2-Dichlorobenzene	ND		310		ug/m3			09/01/16 22:38	25.98
1,2-Dichloroethane	ND		210		ug/m3			09/01/16 22:38	25.98
1,2-Dichloropropane	ND		240		ug/m3			09/01/16 22:38	25.98
1,2-Dichlorotetrafluoroethane	ND		360		ug/m3			09/01/16 22:38	25.98
1,3,5-Trimethylbenzene	ND		260		ug/m3			09/01/16 22:38	25.98
1,3-Dichlorobenzene	ND		310		ug/m3			09/01/16 22:38	25.98
1,4-Dichlorobenzene	ND		310		ug/m3			09/01/16 22:38	25.98
1,4-Dioxane	ND		470		ug/m3			09/01/16 22:38	25.98
2,2,4-Trimethylpentane	ND		610		ug/m3			09/01/16 22:38	25.98
2-Butanone	ND		610		ug/m3			09/01/16 22:38	25.98
4-Methyl-2-pentanone (MIBK)	ND		530		ug/m3			09/01/16 22:38	25.98
Benzene	ND		170		ug/m3			09/01/16 22:38	25.98
Benzyl chloride	ND		540		ug/m3			09/01/16 22:38	25.98
Bromodichloromethane	ND		350		ug/m3			09/01/16 22:38	25.98
Bromoform	ND		540		ug/m3			09/01/16 22:38	25.98
Bromomethane	ND		200		ug/m3			09/01/16 22:38	25.98
Carbon tetrachloride	ND		160		ug/m3			09/01/16 22:38	25.98
Chlorobenzene	ND		240		ug/m3			09/01/16 22:38	25.98
Chloroethane	ND		140		ug/m3			09/01/16 22:38	25.98
Chloroform	ND		250		ug/m3			09/01/16 22:38	25.98
Chloromethane	ND		270		ug/m3			09/01/16 22:38	25.98
cis-1,2-Dichloroethene	ND		210		ug/m3			09/01/16 22:38	25.98
cis-1,3-Dichloropropene	ND		240		ug/m3			09/01/16 22:38	25.98
Cyclohexane	ND		450		ug/m3			09/01/16 22:38	25.98
Dibromochloromethane	ND		440		ug/m3			09/01/16 22:38	25.98
Dichlorodifluoromethane	ND		260		ug/m3			09/01/16 22:38	25.98
Ethanol	ND		2400		ug/m3			09/01/16 22:38	25.98
Ethylbenzene	ND		230		ug/m3			09/01/16 22:38	25.98
Hexachlorobutadiene	ND		550		ug/m3			09/01/16 22:38	25.98
Hexane	ND		460		ug/m3			09/01/16 22:38	25.98
Methyl tert-butyl ether	ND		370		ug/m3			09/01/16 22:38	25.98
Methylene Chloride	ND		450		ug/m3			09/01/16 22:38	25.98
m-Xylene & p-Xylene	ND		230		ug/m3			09/01/16 22:38	25.98
o-Xylene	ND		230		ug/m3			09/01/16 22:38	25.98

Client Sample ID: SG-221
Lab Sample ID: 140-5720-14
Date Collected: 08/24/16 11:28
Matrix: Air
Date Received: 08/26/16 09:45
Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		220		ug/m3			09/01/16 22:38	25.98
t-Butyl alcohol	ND		630		ug/m3			09/01/16 22:38	25.98
Tetrachloroethene	**1000**		350		ug/m3			09/01/16 22:38	25.98
Toluene	ND		290		ug/m3			09/01/16 22:38	25.98
trans-1,2-Dichloroethene	ND		210		ug/m3			09/01/16 22:38	25.98
trans-1,3-Dichloropropene	ND		240		ug/m3			09/01/16 22:38	25.98
Trichloroethene	ND		140		ug/m3			09/01/16 22:38	25.98
Trichlorofluoromethane	ND		290		ug/m3			09/01/16 22:38	25.98
Vinyl chloride	ND		66		ug/m3			09/01/16 22:38	25.98

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*09/01/16 22:38*	*25.98*

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.080	0.012	ppb v/v	TO 15 LL
1,1,1-Trichloroethane	0.44	0.065	ug/m3	TO 15 LL
1,1,2,2-Tetrachloroethane	0.080	0.024	ppb v/v	TO 15 LL
1,1,2,2-Tetrachloroethane	0.55	0.16	ug/m3	TO 15 LL
1,1,2-Trichloroethane	0.080	0.021	ppb v/v	TO 15 LL
1,1,2-Trichloroethane	0.44	0.11	ug/m3	TO 15 LL
1,1,2-Trichlorotrifluoroethane	0.080	0.012	ppb v/v	TO 15 LL
1,1,2-Trichlorotrifluoroethane	0.61	0.092	ug/m3	TO 15 LL
1,1-Dichloroethane	0.080	0.010	ppb v/v	TO 15 LL
1,1-Dichloroethane	0.32	0.040	ug/m3	TO 15 LL
1,1-Dichloroethene	0.080	0.014	ppb v/v	TO 15 LL
1,1-Dichloroethene	0.32	0.056	ug/m3	TO 15 LL
1,2,4-Trichlorobenzene	0.080	0.039	ppb v/v	TO 15 LL
1,2,4-Trichlorobenzene	0.59	0.29	ug/m3	TO 15 LL
1,2,4-Trimethylbenzene	0.080	0.025	ppb v/v	TO 15 LL
1,2,4-Trimethylbenzene	0.39	0.12	ug/m3	TO 15 LL
1,2-Dibromoethane	0.080	0.018	ppb v/v	TO 15 LL
1,2-Dibromoethane	0.61	0.14	ug/m3	TO 15 LL
1,2-Dichlorobenzene	0.080	0.028	ppb v/v	TO 15 LL
1,2-Dichlorobenzene	0.48	0.17	ug/m3	TO 15 LL
1,2-Dichloroethane	0.080	0.019	ppb v/v	TO 15 LL
1,2-Dichloroethane	0.32	0.077	ug/m3	TO 15 LL
1,2-Dichloropropane	0.080	0.021	ppb v/v	TO 15 LL
1,2-Dichloropropane	0.37	0.097	ug/m3	TO 15 LL
1,2-Dichlorotetrafluoroethane	0.080	0.013	ppb v/v	TO 15 LL
1,2-Dichlorotetrafluoroethane	0.56	0.091	ug/m3	TO 15 LL
1,3,5-Trimethylbenzene	0.080	0.026	ppb v/v	TO 15 LL
1,3,5-Trimethylbenzene	0.39	0.13	ug/m3	TO 15 LL
1,3-Dichlorobenzene	0.080	0.026	ppb v/v	TO 15 LL
1,3-Dichlorobenzene	0.48	0.16	ug/m3	TO 15 LL
1,4-Dichlorobenzene	0.080	0.026	ppb v/v	TO 15 LL
1,4-Dichlorobenzene	0.48	0.16	ug/m3	TO 15 LL
1,4-Dioxane	0.20	0.032	ppb v/v	TO 15 LL
1,4-Dioxane	0.72	0.12	ug/m3	TO 15 LL
2,2,4-Trimethylpentane	0.20	0.016	ppb v/v	TO 15 LL
2,2,4-Trimethylpentane	0.93	0.075	ug/m3	TO 15 LL
2-Butanone	0.32	0.080	ppb v/v	TO 15 LL
2-Butanone	0.94	0.24	ug/m3	TO 15 LL
4-Methyl-2-pentanone (MIBK)	0.20	0.018	ppb v/v	TO 15 LL
4-Methyl-2-pentanone (MIBK)	0.82	0.074	ug/m3	TO 15 LL
Benzene	0.080	0.023	ppb v/v	TO 15 LL
Benzene	0.26	0.073	ug/m3	TO 15 LL
Benzyl chloride	0.16	0.031	ppb v/v	TO 15 LL
Benzyl chloride	0.83	0.16	ug/m3	TO 15 LL
Bromodichloromethane	0.080	0.018	ppb v/v	TO 15 LL
Bromodichloromethane	0.54	0.12	ug/m3	TO 15 LL
Bromoform	0.080	0.019	ppb v/v	TO 15 LL
Bromoform	0.83	0.20	ug/m3	TO 15 LL
Bromomethane	0.080	0.013	ppb v/v	TO 15 LL
Bromomethane	0.31	0.050	ug/m3	TO 15 LL
Carbon tetrachloride	0.040	0.015	ppb v/v	TO 15 LL
Carbon tetrachloride	0.25	0.094	ug/m3	TO 15 LL

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Conti

Analyte	RL	MDL	Units	Method
Chlorobenzene	0.080	0.020	ppb v/v	TO 15 LL
Chlorobenzene	0.37	0.092	ug/m3	TO 15 LL
Chloroethane	0.080	0.014	ppb v/v	TO 15 LL
Chloroethane	0.21	0.037	ug/m3	TO 15 LL
Chloroform	0.080	0.015	ppb v/v	TO 15 LL
Chloroform	0.39	0.073	ug/m3	TO 15 LL
Chloromethane	0.20	0.064	ppb v/v	TO 15 LL
Chloromethane	0.41	0.13	ug/m3	TO 15 LL
cis-1,2-Dichloroethene	0.080	0.024	ppb v/v	TO 15 LL
cis-1,2-Dichloroethene	0.32	0.095	ug/m3	TO 15 LL
cis-1,3-Dichloropropene	0.080	0.029	ppb v/v	TO 15 LL
cis-1,3-Dichloropropene	0.36	0.13	ug/m3	TO 15 LL
Cyclohexane	0.20	0.016	ppb v/v	TO 15 LL
Cyclohexane	0.69	0.055	ug/m3	TO 15 LL
Dibromochloromethane	0.080	0.017	ppb v/v	TO 15 LL
Dibromochloromethane	0.68	0.14	ug/m3	TO 15 LL
Dichlorodifluoromethane	0.080	0.027	ppb v/v	TO 15 LL
Dichlorodifluoromethane	0.40	0.13	ug/m3	TO 15 LL
Ethanol	2.0	0.64	ppb v/v	TO 15 LL
Ethanol	3.8	1.2	ug/m3	TO 15 LL
Ethylbenzene	0.080	0.027	ppb v/v	TO 15 LL
Ethylbenzene	0.35	0.12	ug/m3	TO 15 LL
Hexachlorobutadiene	0.080	0.049	ppb v/v	TO 15 LL
Hexachlorobutadiene	0.85	0.52	ug/m3	TO 15 LL
Hexane	0.20	0.013	ppb v/v	TO 15 LL
Hexane	0.70	0.046	ug/m3	TO 15 LL
Methyl tert-butyl ether	0.16	0.068	ppb v/v	TO 15 LL
Methyl tert-butyl ether	0.58	0.25	ug/m3	TO 15 LL
Methylene Chloride	0.20	0.13	ppb v/v	TO 15 LL
Methylene Chloride	0.69	0.45	ug/m3	TO 15 LL
m-Xylene & p-Xylene	0.080	0.053	ppb v/v	TO 15 LL
m-Xylene & p-Xylene	0.35	0.23	ug/m3	TO 15 LL
o-Xylene	0.080	0.024	ppb v/v	TO 15 LL
o-Xylene	0.35	0.10	ug/m3	TO 15 LL
Styrene	0.080	0.023	ppb v/v	TO 15 LL
Styrene	0.34	0.098	ug/m3	TO 15 LL
t-Butyl alcohol	0.32	0.015	ppb v/v	TO 15 LL
t-Butyl alcohol	0.97	0.045	ug/m3	TO 15 LL
Tetrachloroethene	0.080	0.016	ppb v/v	TO 15 LL
Tetrachloroethene	0.54	0.11	ug/m3	TO 15 LL
Toluene	0.12	0.12	ppb v/v	TO 15 LL
Toluene	0.45	0.45	ug/m3	TO 15 LL
trans-1,2-Dichloroethene	0.080	0.020	ppb v/v	TO 15 LL
trans-1,2-Dichloroethene	0.32	0.079	ug/m3	TO 15 LL
trans-1,3-Dichloropropene	0.080	0.019	ppb v/v	TO 15 LL
trans-1,3-Dichloropropene	0.36	0.086	ug/m3	TO 15 LL
Trichloroethene	0.040	0.014	ppb v/v	TO 15 LL
Trichloroethene	0.21	0.075	ug/m3	TO 15 LL
Trichlorofluoromethane	0.080	0.010	ppb v/v	TO 15 LL
Trichlorofluoromethane	0.45	0.056	ug/m3	TO 15 LL
Vinyl chloride	0.040	0.029	ppb v/v	TO 15 LL
Vinyl chloride	0.10	0.074	ug/m3	TO 15 LL

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	BFB (60-140)							
140-5720-1	SG-215	108							
140-5720-2	SG-214	106							
140-5720-3	SG-212	104							
140-5720-4	SG-212 B	104							
140-5720-5	SG-211	103							
140-5720-6	SG-213	99							
140-5720-7	AA-1	102							
140-5720-8	SG-217	103							
140-5720-9	SG-218	103							
140-5720-10	SG-216	102							
140-5720-11	SG-219	104							
140-5720-12	SG-220	100							
140-5720-13	SG-222	100							
140-5720-13 - DL	SG-222	98							
140-5720-14	SG-221	96							
LCS 140-6440/1002	Lab Control Sample	105							
LCS 140-6493/1002	Lab Control Sample	102							
MB 140-6440/4	Method Blank	103							
MB 140-6493/7	Method Blank	97							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Lab Sample ID: MB 140-6440/4
Matrix: Air
Analysis Batch: 6440

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/01/16 12:09	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
1,4-Dioxane	ND		0.20		ppb v/v			09/01/16 12:09	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/01/16 12:09	1
2-Butanone	ND		0.32		ppb v/v			09/01/16 12:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			09/01/16 12:09	1
Benzene	ND		0.080		ppb v/v			09/01/16 12:09	1
Benzyl chloride	ND		0.16		ppb v/v			09/01/16 12:09	1
Bromodichloromethane	ND		0.080		ppb v/v			09/01/16 12:09	1
Bromoform	ND		0.080		ppb v/v			09/01/16 12:09	1
Bromomethane	ND		0.080		ppb v/v			09/01/16 12:09	1
Carbon tetrachloride	ND		0.040		ppb v/v			09/01/16 12:09	1
Chlorobenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
Chloroethane	ND		0.080		ppb v/v			09/01/16 12:09	1
Chloroform	ND		0.080		ppb v/v			09/01/16 12:09	1
Chloromethane	ND		0.20		ppb v/v			09/01/16 12:09	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/01/16 12:09	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/01/16 12:09	1
Cyclohexane	ND		0.20		ppb v/v			09/01/16 12:09	1
Dibromochloromethane	ND		0.080		ppb v/v			09/01/16 12:09	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			09/01/16 12:09	1
Ethanol	ND		2.0		ppb v/v			09/01/16 12:09	1
Ethylbenzene	ND		0.080		ppb v/v			09/01/16 12:09	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/01/16 12:09	1
Hexane	ND		0.20		ppb v/v			09/01/16 12:09	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/01/16 12:09	1
Methylene Chloride	ND		0.20		ppb v/v			09/01/16 12:09	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			09/01/16 12:09	1
o-Xylene	ND		0.080		ppb v/v			09/01/16 12:09	1
Styrene	ND		0.080		ppb v/v			09/01/16 12:09	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/01/16 12:09	1
Tetrachloroethene	ND		0.080		ppb v/v			09/01/16 12:09	1
Toluene	ND		0.12		ppb v/v			09/01/16 12:09	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/01/16 12:09	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-6440/4
Matrix: Air
Analysis Batch: 6440

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/01/16 12:09	1
Trichloroethene	ND		0.040		ppb v/v			09/01/16 12:09	1
Trichlorofluoromethane	ND		0.080		ppb v/v			09/01/16 12:09	1
Vinyl chloride	ND		0.040		ppb v/v			09/01/16 12:09	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/01/16 12:09	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/01/16 12:09	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/01/16 12:09	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/01/16 12:09	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/01/16 12:09	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/01/16 12:09	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/01/16 12:09	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			09/01/16 12:09	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/01/16 12:09	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/01/16 12:09	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/01/16 12:09	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/01/16 12:09	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/01/16 12:09	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/01/16 12:09	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/01/16 12:09	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			09/01/16 12:09	1
1,4-Dioxane	ND		0.72		ug/m3			09/01/16 12:09	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/01/16 12:09	1
2-Butanone	ND		0.94		ug/m3			09/01/16 12:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			09/01/16 12:09	1
Benzene	ND		0.26		ug/m3			09/01/16 12:09	1
Benzyl chloride	ND		0.83		ug/m3			09/01/16 12:09	1
Bromodichloromethane	ND		0.54		ug/m3			09/01/16 12:09	1
Bromoform	ND		0.83		ug/m3			09/01/16 12:09	1
Bromomethane	ND		0.31		ug/m3			09/01/16 12:09	1
Carbon tetrachloride	ND		0.25		ug/m3			09/01/16 12:09	1
Chlorobenzene	ND		0.37		ug/m3			09/01/16 12:09	1
Chloroethane	ND		0.21		ug/m3			09/01/16 12:09	1
Chloroform	ND		0.39		ug/m3			09/01/16 12:09	1
Chloromethane	ND		0.41		ug/m3			09/01/16 12:09	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/01/16 12:09	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/01/16 12:09	1
Cyclohexane	ND		0.69		ug/m3			09/01/16 12:09	1
Dibromochloromethane	ND		0.68		ug/m3			09/01/16 12:09	1
Dichlorodifluoromethane	ND		0.40		ug/m3			09/01/16 12:09	1
Ethanol	ND		3.8		ug/m3			09/01/16 12:09	1
Ethylbenzene	ND		0.35		ug/m3			09/01/16 12:09	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/01/16 12:09	1
Hexane	ND		0.70		ug/m3			09/01/16 12:09	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/01/16 12:09	1
Methylene Chloride	ND		0.69		ug/m3			09/01/16 12:09	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-6440/4
Matrix: Air
Analysis Batch: 6440

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		0.35		ug/m3			09/01/16 12:09	1
o-Xylene	ND		0.35		ug/m3			09/01/16 12:09	1
Styrene	ND		0.34		ug/m3			09/01/16 12:09	1
t-Butyl alcohol	ND		0.97		ug/m3			09/01/16 12:09	1
Tetrachloroethene	ND		0.54		ug/m3			09/01/16 12:09	1
Toluene	ND		0.45		ug/m3			09/01/16 12:09	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/01/16 12:09	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/01/16 12:09	1
Trichloroethene	ND		0.21		ug/m3			09/01/16 12:09	1
Trichlorofluoromethane	ND		0.45		ug/m3			09/01/16 12:09	1
Vinyl chloride	ND		0.10		ug/m3			09/01/16 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*09/01/16 12:09*	*1*

Lab Sample ID: LCS 140-6440/1002
Matrix: Air
Analysis Batch: 6440

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	2.09		ppb v/v		105	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,1,2-Trichloroethane	2.00	2.03		ppb v/v		101	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.15		ppb v/v		107	70 - 130
1,1-Dichloroethane	2.00	2.17		ppb v/v		108	70 - 130
1,1-Dichloroethene	2.00	2.06		ppb v/v		103	70 - 130
1,2,4-Trichlorobenzene	2.00	1.57		ppb v/v		78	60 - 140
1,2,4-Trimethylbenzene	2.00	2.06		ppb v/v		103	70 - 130
1,2-Dibromoethane	2.00	1.98		ppb v/v		99	70 - 130
1,2-Dichlorobenzene	2.00	2.01		ppb v/v		100	70 - 130
1,2-Dichloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloropropane	2.00	2.04		ppb v/v		102	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.26		ppb v/v		113	60 - 140
1,3,5-Trimethylbenzene	2.00	2.02		ppb v/v		101	70 - 130
1,3-Dichlorobenzene	2.00	2.03		ppb v/v		101	70 - 130
1,4-Dichlorobenzene	2.00	2.03		ppb v/v		101	70 - 130
1,4-Dioxane	2.00	1.79		ppb v/v		90	60 - 140
2,2,4-Trimethylpentane	2.00	2.04		ppb v/v		102	70 - 130
2-Butanone	2.00	1.81		ppb v/v		91	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.73		ppb v/v		86	60 - 140
Benzene	2.00	1.97		ppb v/v		98	70 - 130
Benzyl chloride	2.00	2.05		ppb v/v		102	70 - 130
Bromodichloromethane	2.00	2.06		ppb v/v		103	70 - 130
Bromoform	2.00	2.10		ppb v/v		105	60 - 140
Bromomethane	2.00	2.32		ppb v/v		116	70 - 130
Carbon tetrachloride	2.00	2.03		ppb v/v		102	70 - 130
Chlorobenzene	2.00	1.99		ppb v/v		99	70 - 130

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-6440/1002
Matrix: Air
Analysis Batch: 6440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2.00	2.23		ppb v/v		112	70 - 130
Chloroform	2.00	2.10		ppb v/v		105	70 - 130
Chloromethane	2.00	2.18		ppb v/v		109	60 - 140
cis-1,2-Dichloroethene	2.00	2.09		ppb v/v		104	70 - 130
cis-1,3-Dichloropropene	2.00	2.03		ppb v/v		102	70 - 130
Cyclohexane	2.00	2.09		ppb v/v		104	70 - 130
Dibromochloromethane	2.00	2.06		ppb v/v		103	70 - 130
Dichlorodifluoromethane	2.00	2.36		ppb v/v		118	60 - 140
Ethanol	10.0	9.63		ppb v/v		96	60 - 140
Ethylbenzene	2.00	2.04		ppb v/v		102	70 - 130
Hexachlorobutadiene	2.00	1.86		ppb v/v		93	60 - 140
Hexane	2.00	2.17		ppb v/v		108	70 - 130
Methyl tert-butyl ether	2.00	1.99		ppb v/v		100	60 - 140
Methylene Chloride	2.00	2.08		ppb v/v		104	70 - 130
m-Xylene & p-Xylene	4.00	4.12		ppb v/v		103	70 - 130
o-Xylene	2.00	2.05		ppb v/v		102	70 - 130
Styrene	2.00	2.17		ppb v/v		108	70 - 130
t-Butyl alcohol	2.00	2.08		ppb v/v		104	60 - 140
Tetrachloroethene	2.00	2.03		ppb v/v		101	70 - 130
Toluene	2.00	1.97		ppb v/v		99	70 - 130
trans-1,2-Dichloroethene	2.00	2.14		ppb v/v		107	70 - 130
trans-1,3-Dichloropropene	2.00	2.04		ppb v/v		102	70 - 130
Trichloroethene	2.00	1.94		ppb v/v		97	70 - 130
Trichlorofluoromethane	2.00	2.32		ppb v/v		116	60 - 140
Vinyl chloride	2.00	2.35		ppb v/v		118	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.4		ug/m3		105	70 - 130
1,1,2,2-Tetrachloroethane	14	14.4		ug/m3		105	70 - 130
1,1,2-Trichloroethane	11	11.1		ug/m3		101	70 - 130
1,1,2-Trichlorotrifluoroethane	15	16.5		ug/m3		107	70 - 130
1,1-Dichloroethane	8.1	8.78		ug/m3		108	70 - 130
1,1-Dichloroethene	7.9	8.18		ug/m3		103	70 - 130
1,2,4-Trichlorobenzene	15	11.6		ug/m3		78	60 - 140
1,2,4-Trimethylbenzene	9.8	10.1		ug/m3		103	70 - 130
1,2-Dibromoethane	15	15.2		ug/m3		99	70 - 130
1,2-Dichlorobenzene	12	12.1		ug/m3		100	70 - 130
1,2-Dichloroethane	8.1	8.42		ug/m3		104	70 - 130
1,2-Dichloropropane	9.2	9.41		ug/m3		102	70 - 130
1,2-Dichlorotetrafluoroethane	14	15.8		ug/m3		113	60 - 140
1,3,5-Trimethylbenzene	9.8	9.94		ug/m3		101	70 - 130
1,3-Dichlorobenzene	12	12.2		ug/m3		101	70 - 130
1,4-Dichlorobenzene	12	12.2		ug/m3		101	70 - 130
1,4-Dioxane	7.2	6.46		ug/m3		90	60 - 140
2,2,4-Trimethylpentane	9.3	9.54		ug/m3		102	70 - 130
2-Butanone	5.9	5.35		ug/m3		91	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	7.09		ug/m3		86	60 - 140

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-6440/1002
Matrix: Air
Analysis Batch: 6440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	6.4	6.29		ug/m3		98	70 - 130
Benzyl chloride	10	10.6		ug/m3		102	70 - 130
Bromodichloromethane	13	13.8		ug/m3		103	70 - 130
Bromoform	21	21.8		ug/m3		105	60 - 140
Bromomethane	7.8	8.99		ug/m3		116	70 - 130
Carbon tetrachloride	13	12.8		ug/m3		102	70 - 130
Chlorobenzene	9.2	9.16		ug/m3		99	70 - 130
Chloroethane	5.3	5.90		ug/m3		112	70 - 130
Chloroform	9.8	10.3		ug/m3		105	70 - 130
Chloromethane	4.1	4.50		ug/m3		109	60 - 140
cis-1,2-Dichloroethene	7.9	8.28		ug/m3		104	70 - 130
cis-1,3-Dichloropropene	9.1	9.22		ug/m3		102	70 - 130
Cyclohexane	6.9	7.19		ug/m3		104	70 - 130
Dibromochloromethane	17	17.6		ug/m3		103	70 - 130
Dichlorodifluoromethane	9.9	11.7		ug/m3		118	60 - 140
Ethanol	19	18.1		ug/m3		96	60 - 140
Ethylbenzene	8.7	8.86		ug/m3		102	70 - 130
Hexachlorobutadiene	21	19.8		ug/m3		93	60 - 140
Hexane	7.1	7.63		ug/m3		108	70 - 130
Methyl tert-butyl ether	7.2	7.19		ug/m3		100	60 - 140
Methylene Chloride	7.0	7.22		ug/m3		104	70 - 130
m-Xylene & p-Xylene	17	17.9		ug/m3		103	70 - 130
o-Xylene	8.7	8.89		ug/m3		102	70 - 130
Styrene	8.5	9.24		ug/m3		108	70 - 130
t-Butyl alcohol	6.1	6.29		ug/m3		104	60 - 140
Tetrachloroethene	14	13.7		ug/m3		101	70 - 130
Toluene	7.5	7.44		ug/m3		99	70 - 130
trans-1,2-Dichloroethene	7.9	8.50		ug/m3		107	70 - 130
trans-1,3-Dichloropropene	9.1	9.27		ug/m3		102	70 - 130
Trichloroethene	11	10.4		ug/m3		97	70 - 130
Trichlorofluoromethane	11	13.0		ug/m3		116	60 - 140
Vinyl chloride	5.1	6.01		ug/m3		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*

Lab Sample ID: MB 140-6493/7
Matrix: Air
Analysis Batch: 6493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/02/16 16:02	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-6493/7
Matrix: Air
Analysis Batch: 6493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
1,4-Dioxane	ND		0.20		ppb v/v			09/02/16 16:02	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/02/16 16:02	1
2-Butanone	ND		0.32		ppb v/v			09/02/16 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			09/02/16 16:02	1
Benzene	ND		0.080		ppb v/v			09/02/16 16:02	1
Benzyl chloride	ND		0.16		ppb v/v			09/02/16 16:02	1
Bromodichloromethane	ND		0.080		ppb v/v			09/02/16 16:02	1
Bromoform	ND		0.080		ppb v/v			09/02/16 16:02	1
Bromomethane	ND		0.080		ppb v/v			09/02/16 16:02	1
Carbon tetrachloride	ND		0.040		ppb v/v			09/02/16 16:02	1
Chlorobenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
Chloroethane	ND		0.080		ppb v/v			09/02/16 16:02	1
Chloroform	ND		0.080		ppb v/v			09/02/16 16:02	1
Chloromethane	ND		0.20		ppb v/v			09/02/16 16:02	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/02/16 16:02	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/02/16 16:02	1
Cyclohexane	ND		0.20		ppb v/v			09/02/16 16:02	1
Dibromochloromethane	ND		0.080		ppb v/v			09/02/16 16:02	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			09/02/16 16:02	1
Ethanol	ND		2.0		ppb v/v			09/02/16 16:02	1
Ethylbenzene	ND		0.080		ppb v/v			09/02/16 16:02	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/02/16 16:02	1
Hexane	ND		0.20		ppb v/v			09/02/16 16:02	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/02/16 16:02	1
Methylene Chloride	ND		0.20		ppb v/v			09/02/16 16:02	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			09/02/16 16:02	1
o-Xylene	ND		0.080		ppb v/v			09/02/16 16:02	1
Styrene	ND		0.080		ppb v/v			09/02/16 16:02	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/02/16 16:02	1
Tetrachloroethene	ND		0.080		ppb v/v			09/02/16 16:02	1
Toluene	ND		0.12		ppb v/v			09/02/16 16:02	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/02/16 16:02	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/02/16 16:02	1
Trichloroethene	ND		0.040		ppb v/v			09/02/16 16:02	1
Trichlorofluoromethane	ND		0.080		ppb v/v			09/02/16 16:02	1
Vinyl chloride	ND		0.040		ppb v/v			09/02/16 16:02	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/02/16 16:02	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/02/16 16:02	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/02/16 16:02	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/02/16 16:02	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/02/16 16:02	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/02/16 16:02	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/02/16 16:02	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			09/02/16 16:02	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/02/16 16:02	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/02/16 16:02	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/02/16 16:02	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/02/16 16:02	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/02/16 16:02	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/02/16 16:02	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/02/16 16:02	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			09/02/16 16:02	1
1,4-Dioxane	ND		0.72		ug/m3			09/02/16 16:02	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/02/16 16:02	1
2-Butanone	ND		0.94		ug/m3			09/02/16 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			09/02/16 16:02	1
Benzene	ND		0.26		ug/m3			09/02/16 16:02	1
Benzyl chloride	ND		0.83		ug/m3			09/02/16 16:02	1
Bromodichloromethane	ND		0.54		ug/m3			09/02/16 16:02	1
Bromoform	ND		0.83		ug/m3			09/02/16 16:02	1
Bromomethane	ND		0.31		ug/m3			09/02/16 16:02	1
Carbon tetrachloride	ND		0.25		ug/m3			09/02/16 16:02	1
Chlorobenzene	ND		0.37		ug/m3			09/02/16 16:02	1
Chloroethane	ND		0.21		ug/m3			09/02/16 16:02	1
Chloroform	ND		0.39		ug/m3			09/02/16 16:02	1
Chloromethane	ND		0.41		ug/m3			09/02/16 16:02	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/02/16 16:02	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/02/16 16:02	1
Cyclohexane	ND		0.69		ug/m3			09/02/16 16:02	1
Dibromochloromethane	ND		0.68		ug/m3			09/02/16 16:02	1
Dichlorodifluoromethane	ND		0.40		ug/m3			09/02/16 16:02	1
Ethanol	ND		3.8		ug/m3			09/02/16 16:02	1
Ethylbenzene	ND		0.35		ug/m3			09/02/16 16:02	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/02/16 16:02	1
Hexane	ND		0.70		ug/m3			09/02/16 16:02	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/02/16 16:02	1
Methylene Chloride	ND		0.69		ug/m3			09/02/16 16:02	1
m-Xylene & p-Xylene	ND		0.35		ug/m3			09/02/16 16:02	1
o-Xylene	ND		0.35		ug/m3			09/02/16 16:02	1
Styrene	ND		0.34		ug/m3			09/02/16 16:02	1
t-Butyl alcohol	ND		0.97		ug/m3			09/02/16 16:02	1
Tetrachloroethene	ND		0.54		ug/m3			09/02/16 16:02	1
Toluene	ND		0.45		ug/m3			09/02/16 16:02	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/02/16 16:02	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/02/16 16:02	1
Trichloroethene	ND		0.21		ug/m3			09/02/16 16:02	1
Trichlorofluoromethane	ND		0.45		ug/m3			09/02/16 16:02	1
Vinyl chloride	ND		0.10		ug/m3			09/02/16 16:02	1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-6493/7
Matrix: Air
Analysis Batch: 6493

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140		09/02/16 16:02	1

Lab Sample ID: LCS 140-6493/1002
Matrix: Air
Analysis Batch: 6493

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	2.05		ppb v/v		102	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.36		ppb v/v		118	70 - 130
1,1,2-Trichloroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.23		ppb v/v		111	70 - 130
1,1-Dichloroethane	2.00	2.16		ppb v/v		108	70 - 130
1,1-Dichloroethene	2.00	2.15		ppb v/v		107	70 - 130
1,2,4-Trichlorobenzene	2.00	2.32		ppb v/v		116	60 - 140
1,2,4-Trimethylbenzene	2.00	2.35		ppb v/v		117	70 - 130
1,2-Dibromoethane	2.00	2.24		ppb v/v		112	70 - 130
1,2-Dichlorobenzene	2.00	2.32		ppb v/v		116	70 - 130
1,2-Dichloroethane	2.00	2.18		ppb v/v		109	70 - 130
1,2-Dichloropropane	2.00	2.21		ppb v/v		111	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.27		ppb v/v		113	60 - 140
1,3,5-Trimethylbenzene	2.00	2.36		ppb v/v		118	70 - 130
1,3-Dichlorobenzene	2.00	2.34		ppb v/v		117	70 - 130
1,4-Dichlorobenzene	2.00	2.36		ppb v/v		118	70 - 130
1,4-Dioxane	2.00	1.88		ppb v/v		94	60 - 140
2,2,4-Trimethylpentane	2.00	2.23		ppb v/v		111	70 - 130
2-Butanone	2.00	1.88		ppb v/v		94	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.86		ppb v/v		93	60 - 140
Benzene	2.00	2.20		ppb v/v		110	70 - 130
Benzyl chloride	2.00	2.41		ppb v/v		121	70 - 130
Bromodichloromethane	2.00	2.21		ppb v/v		110	70 - 130
Bromoform	2.00	2.17		ppb v/v		108	60 - 140
Bromomethane	2.00	2.27		ppb v/v		113	70 - 130
Carbon tetrachloride	2.00	2.21		ppb v/v		111	70 - 130
Chlorobenzene	2.00	2.30		ppb v/v		115	70 - 130
Chloroethane	2.00	2.28		ppb v/v		114	70 - 130
Chloroform	2.00	2.07		ppb v/v		103	70 - 130
Chloromethane	2.00	2.06		ppb v/v		103	60 - 140
cis-1,2-Dichloroethene	2.00	2.19		ppb v/v		110	70 - 130
cis-1,3-Dichloropropene	2.00	2.28		ppb v/v		114	70 - 130
Cyclohexane	2.00	2.28		ppb v/v		114	70 - 130
Dibromochloromethane	2.00	2.23		ppb v/v		111	70 - 130
Dichlorodifluoromethane	2.00	2.20		ppb v/v		110	60 - 140
Ethanol	10.0	9.99		ppb v/v		100	60 - 140
Ethylbenzene	2.00	2.29		ppb v/v		115	70 - 130
Hexachlorobutadiene	2.00	2.30		ppb v/v		115	60 - 140
Hexane	2.00	2.11		ppb v/v		105	70 - 130
Methyl tert-butyl ether	2.00	2.06		ppb v/v		103	60 - 140

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-6493/1002
Matrix: Air
Analysis Batch: 6493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	2.00	2.10		ppb v/v		105	70 - 130
m-Xylene & p-Xylene	4.00	4.63		ppb v/v		116	70 - 130
o-Xylene	2.00	2.27		ppb v/v		113	70 - 130
Styrene	2.00	2.51		ppb v/v		126	70 - 130
t-Butyl alcohol	2.00	2.09		ppb v/v		105	60 - 140
Tetrachloroethene	2.00	2.25		ppb v/v		112	70 - 130
Toluene	2.00	2.28		ppb v/v		114	70 - 130
trans-1,2-Dichloroethene	2.00	2.19		ppb v/v		109	70 - 130
trans-1,3-Dichloropropene	2.00	2.27		ppb v/v		114	70 - 130
Trichloroethene	2.00	2.18		ppb v/v		109	70 - 130
Trichlorofluoromethane	2.00	2.23		ppb v/v		112	60 - 140
Vinyl chloride	2.00	2.41		ppb v/v		121	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.2		ug/m3		102	70 - 130
1,1,2,2-Tetrachloroethane	14	16.2		ug/m3		118	70 - 130
1,1,2-Trichloroethane	11	12.1		ug/m3		111	70 - 130
1,1,2-Trichlorotrifluoroethane	15	17.1		ug/m3		111	70 - 130
1,1-Dichloroethane	8.1	8.73		ug/m3		108	70 - 130
1,1-Dichloroethene	7.9	8.51		ug/m3		107	70 - 130
1,2,4-Trichlorobenzene	15	17.2		ug/m3		116	60 - 140
1,2,4-Trimethylbenzene	9.8	11.5		ug/m3		117	70 - 130
1,2-Dibromoethane	15	17.2		ug/m3		112	70 - 130
1,2-Dichlorobenzene	12	13.9		ug/m3		116	70 - 130
1,2-Dichloroethane	8.1	8.83		ug/m3		109	70 - 130
1,2-Dichloropropane	9.2	10.2		ug/m3		111	70 - 130
1,2-Dichlorotetrafluoroethane	14	15.9		ug/m3		113	60 - 140
1,3,5-Trimethylbenzene	9.8	11.6		ug/m3		118	70 - 130
1,3-Dichlorobenzene	12	14.1		ug/m3		117	70 - 130
1,4-Dichlorobenzene	12	14.2		ug/m3		118	70 - 130
1,4-Dioxane	7.2	6.79		ug/m3		94	60 - 140
2,2,4-Trimethylpentane	9.3	10.4		ug/m3		111	70 - 130
2-Butanone	5.9	5.53		ug/m3		94	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	7.61		ug/m3		93	60 - 140
Benzene	6.4	7.01		ug/m3		110	70 - 130
Benzyl chloride	10	12.5		ug/m3		121	70 - 130
Bromodichloromethane	13	14.8		ug/m3		110	70 - 130
Bromoform	21	22.4		ug/m3		108	60 - 140
Bromomethane	7.8	8.81		ug/m3		113	70 - 130
Carbon tetrachloride	13	13.9		ug/m3		111	70 - 130
Chlorobenzene	9.2	10.6		ug/m3		115	70 - 130
Chloroethane	5.3	6.02		ug/m3		114	70 - 130
Chloroform	9.8	10.1		ug/m3		103	70 - 130
Chloromethane	4.1	4.24		ug/m3		103	60 - 140
cis-1,2-Dichloroethene	7.9	8.69		ug/m3		110	70 - 130
cis-1,3-Dichloropropene	9.1	10.3		ug/m3		114	70 - 130
Cyclohexane	6.9	7.85		ug/m3		114	70 - 130

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-6493/1002
Matrix: Air
Analysis Batch: 6493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	17	19.0		ug/m3		111	70 - 130
Dichlorodifluoromethane	9.9	10.9		ug/m3		110	60 - 140
Ethanol	19	18.8		ug/m3		100	60 - 140
Ethylbenzene	8.7	9.96		ug/m3		115	70 - 130
Hexachlorobutadiene	21	24.6		ug/m3		115	60 - 140
Hexane	7.1	7.42		ug/m3		105	70 - 130
Methyl tert-butyl ether	7.2	7.42		ug/m3		103	60 - 140
Methylene Chloride	7.0	7.31		ug/m3		105	70 - 130
m-Xylene & p-Xylene	17	20.1		ug/m3		116	70 - 130
o-Xylene	8.7	9.84		ug/m3		113	70 - 130
Styrene	8.5	10.7		ug/m3		126	70 - 130
t-Butyl alcohol	6.1	6.35		ug/m3		105	60 - 140
Tetrachloroethene	14	15.3		ug/m3		112	70 - 130
Toluene	7.5	8.59		ug/m3		114	70 - 130
trans-1,2-Dichloroethene	7.9	8.66		ug/m3		109	70 - 130
trans-1,3-Dichloropropene	9.1	10.3		ug/m3		114	70 - 130
Trichloroethene	11	11.7		ug/m3		109	70 - 130
Trichlorofluoromethane	11	12.5		ug/m3		112	60 - 140
Vinyl chloride	5.1	6.17		ug/m3		121	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*

QC Association Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Air - GC/MS VOA

Analysis Batch: 6440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-5720-1	SG-215	Total/NA	Air	TO 15 LL	
140-5720-2	SG-214	Total/NA	Air	TO 15 LL	
140-5720-3	SG-212	Total/NA	Air	TO 15 LL	
140-5720-4	SG-212 B	Total/NA	Air	TO 15 LL	
140-5720-5	SG-211	Total/NA	Air	TO 15 LL	
140-5720-6	SG-213	Total/NA	Air	TO 15 LL	
140-5720-7	AA-1	Total/NA	Air	TO 15 LL	
140-5720-8	SG-217	Total/NA	Air	TO 15 LL	
140-5720-9	SG-218	Total/NA	Air	TO 15 LL	
140-5720-10	SG-216	Total/NA	Air	TO 15 LL	
140-5720-11	SG-219	Total/NA	Air	TO 15 LL	
140-5720-12	SG-220	Total/NA	Air	TO 15 LL	
140-5720-13	SG-222	Total/NA	Air	TO 15 LL	
140-5720-14	SG-221	Total/NA	Air	TO 15 LL	
MB 140-6440/4	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-6440/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Analysis Batch: 6493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-5720-13 - DL	SG-222	Total/NA	Air	TO 15 LL	
MB 140-6493/7	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-6493/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Client Sample ID: SG-215
Date Collected: 08/24/16 11:55
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-1
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 LL		1.65	150 mL	500 mL	6440	09/01/16 12:54	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-214
Date Collected: 08/24/16 11:57
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-2
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 LL		1	100 mL	500 mL	6440	09/01/16 13:38	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-212
Date Collected: 08/24/16 12:57
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-3
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 LL		1.57	200 mL	500 mL	6440	09/01/16 14:22	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-212 B
Date Collected: 08/24/16 12:57
Date Received: 08/29/16 09:30

Lab Sample ID: 140-5720-4
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 LL		1.42	200 mL	500 mL	6440	09/01/16 15:06	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-211
Date Collected: 08/24/16 12:55
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-5
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 LL		1.61	200 mL	500 mL	6440	09/01/16 15:51	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-213
Date Collected: 08/24/16 13:15
Date Received: 08/29/16 09:30

Lab Sample ID: 140-5720-6
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 LL		1.42	300 mL	500 mL	6440	09/01/16 23:25	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: AA-1
Date Collected: 08/24/16 13:14
Date Received: 08/29/16 09:30

Lab Sample ID: 140-5720-7
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 LL		1	500 mL	500 mL	6440	09/01/16 17:24	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-217
Date Collected: 08/24/16 13:25
Date Received: 08/29/16 09:30

Lab Sample ID: 140-5720-8
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 LL		14.16	500 mL	500 mL	6440	09/01/16 18:12	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-218
Date Collected: 08/24/16 11:10
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-9
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 LL		1.46	73 mL	500 mL	6440	09/01/16 18:56	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-216
Date Collected: 08/24/16 11:13
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-10
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 LL		4.65	300 mL	500 mL	6440	09/01/16 19:43	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-219
Date Collected: 08/24/16 11:16
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-11
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 LL		14.47	150 mL	500 mL	6440	09/01/16 20:28	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-220
Date Collected: 08/24/16 11:19
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-12
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 LL		1.47	150 mL	500 mL	6440	09/01/16 21:12	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-222
Date Collected: 08/24/16 11:29
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-13
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 LL		1.51	20 mL	500 mL	6440	09/01/16 21:55	AFB	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO 15 LL	DL	1.51	11 mL	500 mL	6493	09/02/16 22:00	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: SG-221
Date Collected: 08/24/16 11:28
Date Received: 08/26/16 09:45

Lab Sample ID: 140-5720-14
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 LL		25.98	20 mL	500 mL	6440	09/01/16 22:38	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-6440/4
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 LL		1	500 mL	500 mL	6440	09/01/16 12:09	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-6493/7
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 LL		1	500 mL	500 mL	6493	09/02/16 16:02	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 140-6440/1002
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 LL		1	500 mL	500 mL	6440	09/01/16 10:10	AFB	TAL KNX
	Instrument ID: ME									

Client Sample ID: Lab Control Sample

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 140-6493/1002

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 LL		1	500 mL	500 mL	6493	09/02/16 13:50	AFB	TAL KNX
	Instrument ID: ME									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Laboratory: TestAmerica Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10781	03-31-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
TO 15 LL		Air	1,1,2-Trichlorotrifluoroethane
TO 15 LL		Air	1,2,4-Trimethylbenzene
TO 15 LL		Air	1,2-Dichlorotetrafluoroethane
TO 15 LL		Air	1,3,5-Trimethylbenzene
TO 15 LL		Air	1,4-Dioxane
TO 15 LL		Air	Bromodichloromethane
TO 15 LL		Air	Cyclohexane
TO 15 LL		Air	Dibromochloromethane
TO 15 LL		Air	Dichlorodifluoromethane
TO 15 LL		Air	o-Xylene
TO 15 LL		Air	Trichlorofluoromethane

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
TO 15 LL		Air	Ethanol
TO 15 LL		Air	t-Butyl alcohol

Method Summary

Client: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Method	Method Description	Protocol	Laboratory
TO 15 LL	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	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: New York State D.E.C.
Project/Site: Former Goodman Brothers #224211

TestAmerica Job ID: 140-5720-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-5720-1	SG-215	Air	08/24/16 11:55	08/26/16 09:45
140-5720-2	SG-214	Air	08/24/16 11:57	08/26/16 09:45
140-5720-3	SG-212	Air	08/24/16 12:57	08/26/16 09:45
140-5720-4	SG-212 B	Air	08/24/16 12:57	08/29/16 09:30
140-5720-5	SG-211	Air	08/24/16 12:55	08/26/16 09:45
140-5720-6	SG-213	Air	08/24/16 13:15	08/29/16 09:30
140-5720-7	AA-1	Air	08/24/16 13:14	08/29/16 09:30
140-5720-8	SG-217	Air	08/24/16 13:25	08/29/16 09:30
140-5720-9	SG-218	Air	08/24/16 11:10	08/26/16 09:45
140-5720-10	SG-216	Air	08/24/16 11:13	08/26/16 09:45
140-5720-11	SG-219	Air	08/24/16 11:16	08/26/16 09:45
140-5720-12	SG-220	Air	08/24/16 11:19	08/26/16 09:45
140-5720-13	SG-222	Air	08/24/16 11:29	08/26/16 09:45
140-5720-14	SG-221	Air	08/24/16 11:28	08/26/16 09:45

Method TO15 Low Level

Volatile Organic Compounds - Low level (GC/MS) by Method TO 15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): RTX-5 ID: 0.32(mm)

Client Sample ID	Lab Sample ID	BFB #
SG-215	140-5720-1	108
SG-214	140-5720-2	106
SG-212	140-5720-3	104
SG-212 B	140-5720-4	104
SG-211	140-5720-5	103
SG-213	140-5720-6	99
AA-1	140-5720-7	102
SG-217	140-5720-8	103
SG-218	140-5720-9	103
SG-216	140-5720-10	102
SG-219	140-5720-11	104
SG-220	140-5720-12	100
SG-222	140-5720-13	100
SG-222 DL	140-5720-13 DL	98
SG-221	140-5720-14	96
	MB 140-6440/4	103
	MB 140-6493/7	97
	LCS 140-6440/1002	105
	LCS 140-6493/1002	102

	QC LIMITS
BFB = 4-Bromofluorobenzene (Surr)	60-140

Column to be used to flag recovery values

FORM II TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVI01-LCS.d

Lab ID: LCS 140-6440/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.09	105	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.10	105	70-130	
1,1,2-Trichloroethane	2.00	2.03	101	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.15	107	70-130	
1,1-Dichloroethane	2.00	2.17	108	70-130	
1,1-Dichloroethene	2.00	2.06	103	70-130	
1,2,4-Trichlorobenzene	2.00	1.57	78	60-140	
1,2,4-Trimethylbenzene	2.00	2.06	103	70-130	
1,2-Dibromoethane	2.00	1.98	99	70-130	
1,2-Dichlorobenzene	2.00	2.01	100	70-130	
1,2-Dichloroethane	2.00	2.08	104	70-130	
1,2-Dichloropropane	2.00	2.04	102	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.26	113	60-140	
1,3,5-Trimethylbenzene	2.00	2.02	101	70-130	
1,3-Dichlorobenzene	2.00	2.03	101	70-130	
1,4-Dichlorobenzene	2.00	2.03	101	70-130	
1,4-Dioxane	2.00	1.79	90	60-140	
2,2,4-Trimethylpentane	2.00	2.04	102	70-130	
2-Butanone	2.00	1.81	91	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	1.73	86	60-140	
Benzene	2.00	1.97	98	70-130	
Benzyl chloride	2.00	2.05	102	70-130	
Bromodichloromethane	2.00	2.06	103	70-130	
Bromoform	2.00	2.10	105	60-140	
Bromomethane	2.00	2.32	116	70-130	
Carbon tetrachloride	2.00	2.03	102	70-130	
Chlorobenzene	2.00	1.99	99	70-130	
Chloroethane	2.00	2.23	112	70-130	
Chloroform	2.00	2.10	105	70-130	
Chloromethane	2.00	2.18	109	60-140	
cis-1,2-Dichloroethene	2.00	2.09	104	70-130	
cis-1,3-Dichloropropene	2.00	2.03	102	70-130	
Cyclohexane	2.00	2.09	104	70-130	
Dibromochloromethane	2.00	2.06	103	70-130	
Dichlorodifluoromethane	2.00	2.36	118	60-140	
Ethanol	10.0	9.63	96	60-140	
Ethylbenzene	2.00	2.04	102	70-130	
Hexachlorobutadiene	2.00	1.86	93	60-140	
Hexane	2.00	2.17	108	70-130	
Methyl tert-butyl ether	2.00	1.99	100	60-140	
Methylene Chloride	2.00	2.08	104	70-130	
m-Xylene & p-Xylene	4.00	4.12	103	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVI01-LCS.d

Lab ID: LCS 140-6440/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
o-Xylene	2.00	2.05	102	70-130	
Styrene	2.00	2.17	108	70-130	
t-Butyl alcohol	2.00	2.08	104	60-140	
Tetrachloroethene	2.00	2.03	101	70-130	
Toluene	2.00	1.97	99	70-130	
trans-1,2-Dichloroethene	2.00	2.14	107	70-130	
trans-1,3-Dichloropropene	2.00	2.04	102	70-130	
Trichloroethene	2.00	1.94	97	70-130	
Trichlorofluoromethane	2.00	2.32	116	60-140	
Vinyl chloride	2.00	2.35	118	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVI02A-LCS.d

Lab ID: LCS 140-6493/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.05	102	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.36	118	70-130	
1,1,2-Trichloroethane	2.00	2.22	111	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.23	111	70-130	
1,1-Dichloroethane	2.00	2.16	108	70-130	
1,1-Dichloroethene	2.00	2.15	107	70-130	
1,2,4-Trichlorobenzene	2.00	2.32	116	60-140	
1,2,4-Trimethylbenzene	2.00	2.35	117	70-130	
1,2-Dibromoethane	2.00	2.24	112	70-130	
1,2-Dichlorobenzene	2.00	2.32	116	70-130	
1,2-Dichloroethane	2.00	2.18	109	70-130	
1,2-Dichloropropane	2.00	2.21	111	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.27	113	60-140	
1,3,5-Trimethylbenzene	2.00	2.36	118	70-130	
1,3-Dichlorobenzene	2.00	2.34	117	70-130	
1,4-Dichlorobenzene	2.00	2.36	118	70-130	
1,4-Dioxane	2.00	1.88	94	60-140	
2,2,4-Trimethylpentane	2.00	2.23	111	70-130	
2-Butanone	2.00	1.88	94	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	1.86	93	60-140	
Benzene	2.00	2.20	110	70-130	
Benzyl chloride	2.00	2.41	121	70-130	
Bromodichloromethane	2.00	2.21	110	70-130	
Bromoform	2.00	2.17	108	60-140	
Bromomethane	2.00	2.27	113	70-130	
Carbon tetrachloride	2.00	2.21	111	70-130	
Chlorobenzene	2.00	2.30	115	70-130	
Chloroethane	2.00	2.28	114	70-130	
Chloroform	2.00	2.07	103	70-130	
Chloromethane	2.00	2.06	103	60-140	
cis-1,2-Dichloroethene	2.00	2.19	110	70-130	
cis-1,3-Dichloropropene	2.00	2.28	114	70-130	
Cyclohexane	2.00	2.28	114	70-130	
Dibromochloromethane	2.00	2.23	111	70-130	
Dichlorodifluoromethane	2.00	2.20	110	60-140	
Ethanol	10.0	9.99	100	60-140	
Ethylbenzene	2.00	2.29	115	70-130	
Hexachlorobutadiene	2.00	2.30	115	60-140	
Hexane	2.00	2.11	105	70-130	
Methyl tert-butyl ether	2.00	2.06	103	60-140	
Methylene Chloride	2.00	2.10	105	70-130	
m-Xylene & p-Xylene	4.00	4.63	116	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Matrix: Air Level: Low Lab File ID: ECCVI02A-LCS.d

Lab ID: LCS 140-6493/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
o-Xylene	2.00	2.27	113	70-130	
Styrene	2.00	2.51	126	70-130	
t-Butyl alcohol	2.00	2.09	105	60-140	
Tetrachloroethene	2.00	2.25	112	70-130	
Toluene	2.00	2.28	114	70-130	
trans-1,2-Dichloroethene	2.00	2.19	109	70-130	
trans-1,3-Dichloropropene	2.00	2.27	114	70-130	
Trichloroethene	2.00	2.18	109	70-130	
Trichlorofluoromethane	2.00	2.23	112	60-140	
Vinyl chloride	2.00	2.41	121	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab File ID: E500BI01.D Lab Sample ID: MB 140-6440/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 09/01/2016 12:09

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 140-6440/1002	ECCVI01-LCS .d	09/01/2016 10:10
SG-215	140-5720-1	EI01P102.D	09/01/2016 12:54
SG-214	140-5720-2	EI01P103.D	09/01/2016 13:38
SG-212	140-5720-3	EI01P104.D	09/01/2016 14:22
SG-212 B	140-5720-4	EI01P105.D	09/01/2016 15:06
SG-211	140-5720-5	EI01P106.D	09/01/2016 15:51
AA-1	140-5720-7	EI01P108.D	09/01/2016 17:24
SG-217	140-5720-8	EI01P109.D	09/01/2016 18:12
SG-218	140-5720-9	EI01P110.D	09/01/2016 18:56
SG-216	140-5720-10	EI01P111.D	09/01/2016 19:43
SG-219	140-5720-11	EI01P112.D	09/01/2016 20:28
SG-220	140-5720-12	EI01P113.D	09/01/2016 21:12
SG-222	140-5720-13	EI01P114.D	09/01/2016 21:55
SG-221	140-5720-14	EI01P115.D	09/01/2016 22:38
SG-213	140-5720-6	EI01P107R.D	09/01/2016 23:25

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab File ID: LOT5745MB.D Lab Sample ID: MB 140-6493/7

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: ME Date Analyzed: 09/02/2016 16:02

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
SG-222 DL	140-5720-13 DL	EI02p108.D	09/02/2016 22:00

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab File ID: EBFBH23A.D BFB Injection Date: 08/23/2016

Instrument ID: ME BFB Injection Time: 15:48

Analysis Batch No.: 6379

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.0	
75	30.0 - 60.0 % of mass 95	54.6	
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	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	83.7	
175	5.0 - 9.0 % of mass 174	5.9	(7.1) 1
176	95.0 - 101.0 % of mass 174	81.7	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(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 140-6379/3	EH23IC01A.D	08/23/2016	17:03
	IC 140-6379/4	EH23IC02A.D	08/23/2016	17:48
	IC 140-6379/5	EH23IC03A.D	08/23/2016	18:32
	IC 140-6379/6	EH23IC04.D	08/23/2016	19:17
	IC 140-6379/7	EH23IC05.D	08/23/2016	20:01
	ICIS 140-6379/8	EH23IC06.D	08/23/2016	20:46
	IC 140-6379/9	EH23IC07.D	08/23/2016	21:31
	IC 140-6379/10	EH23IC08.D	08/23/2016	22:17
	IC 140-6379/11	EH23IC09.D	08/23/2016	23:02
	ICV 140-6379/13	EH23ICV.D	08/24/2016	00:30

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab File ID: EBFBI01.D BFB Injection Date: 09/01/2016

Instrument ID: ME BFB Injection Time: 09:39

Analysis Batch No.: 6440

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	14.9	
75	30.0 - 60.0 % of mass 95	55.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	78.5	
175	5.0 - 9.0 % of mass 174	5.7	(7.2) 1
176	95.0 - 101.0 % of mass 174	76.3	(97.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.8) 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 140-6440/2	ECCVI01.D	09/01/2016	10:10
	LCS 140-6440/1002	ECCVI01-LCS.d	09/01/2016	10:10
	MB 140-6440/4	E500BI01.D	09/01/2016	12:09
SG-215	140-5720-1	EI01P102.D	09/01/2016	12:54
SG-214	140-5720-2	EI01P103.D	09/01/2016	13:38
SG-212	140-5720-3	EI01P104.D	09/01/2016	14:22
SG-212 B	140-5720-4	EI01P105.D	09/01/2016	15:06
SG-211	140-5720-5	EI01P106.D	09/01/2016	15:51
AA-1	140-5720-7	EI01P108.D	09/01/2016	17:24
SG-217	140-5720-8	EI01P109.D	09/01/2016	18:12
SG-218	140-5720-9	EI01P110.D	09/01/2016	18:56
SG-216	140-5720-10	EI01P111.D	09/01/2016	19:43
SG-219	140-5720-11	EI01P112.D	09/01/2016	20:28
SG-220	140-5720-12	EI01P113.D	09/01/2016	21:12
SG-222	140-5720-13	EI01P114.D	09/01/2016	21:55
SG-221	140-5720-14	EI01P115.D	09/01/2016	22:38
SG-213	140-5720-6	EI01P107R.D	09/01/2016	23:25

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab File ID: EBFBI02A.D BFB Injection Date: 09/02/2016

Instrument ID: ME BFB Injection Time: 13:21

Analysis Batch No.: 6493

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	14.4	
75	30.0 - 60.0 % of mass 95	54.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	80.9	
175	5.0 - 9.0 % of mass 174	5.8	(7.2) 1
176	95.0 - 101.0 % of mass 174	78.2	(96.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(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
	CCVIS 140-6493/2	ECCVI02A.D	09/02/2016	13:50
	LCS 140-6493/1002	ECCVI02A-LCS .d	09/02/2016	13:50
	MB 140-6493/7	LOT5745MB.D	09/02/2016	16:02
SG-222 DL	140-5720-13 DL	EI02p108.D	09/02/2016	22:00

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Sample No.: ICIS 140-6379/8 Date Analyzed: 08/23/2016 20:46

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): EH23IC06.D Heated Purge: (Y/N) N

Calibration ID: 750

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		269675	7.57	1287098	9.82	1211436	14.82
UPPER LIMIT		377545	7.90	1801937	10.15	1696010	15.15
LOWER LIMIT		161805	7.24	772259	9.49	726862	14.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 140-6379/13		255853	7.57	1211654	9.82	1126201	14.82

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = 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 TO 15 LL

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Sample No.: CCVIS 140-6440/2 Date Analyzed: 09/01/2016 10:10

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVI01.D Heated Purge: (Y/N) N

Calibration ID: 750

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		265245	7.57	1292036	9.81	1204822	14.81
UPPER LIMIT		371343	7.90	1808850	10.14	1686751	15.14
LOWER LIMIT		159147	7.24	775222	9.48	722893	14.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-6440/1002		265245	7.57	1292036	9.81	1204822	14.81
MB 140-6440/4		231791	7.56	1034416	9.81	992083	14.81
140-5720-1	SG-215	224239	7.57	1060206	9.81	1070479	14.81
140-5720-2	SG-214	242018	7.57	1083227	9.81	1087159	14.81
140-5720-3	SG-212	261962	7.57	1284207	9.81	1193575	14.81
140-5720-4	SG-212 B	273768	7.57	1286308	9.82	1198528	14.81
140-5720-5	SG-211	254382	7.57	1167152	9.81	1132276	14.81
140-5720-7	AA-1	267627	7.56	1320262	9.81	1219989	14.81
140-5720-8	SG-217	248124	7.56	1164312	9.81	1134381	14.81
140-5720-9	SG-218	275684	7.56	1314383	9.81	1231806	14.81
140-5720-10	SG-216	275968	7.56	1329442	9.81	1254335	14.81
140-5720-11	SG-219	279474	7.57	1359806	9.81	1302385	14.81
140-5720-12	SG-220	298699	7.57	1422859	9.81	1314807	14.81
140-5720-13	SG-222	298098	7.58	1452723	9.82	1315690	14.81
140-5720-14	SG-221	221412	7.56	1025713	9.81	888172	14.81
140-5720-6	SG-213	247998	7.57	1158628	9.81	1059098	14.81

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = 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 TO 15 LL

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Sample No.: CCVIS 140-6493/2 Date Analyzed: 09/02/2016 13:50

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): ECCVI02A.D Heated Purge: (Y/N) N

Calibration ID: 750

		CBM		DFBZ		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		310163	7.57	1394294	9.82	1286927	14.81
UPPER LIMIT		434228	7.90	1952012	10.15	1801698	15.14
LOWER LIMIT		186098	7.24	836576	9.49	772156	14.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-6493/1002		310163	7.57	1394294	9.82	1286927	14.81
MB 140-6493/7		318720	7.57	1487455	9.81	1337962	14.81
140-5720-13 DL	SG-222 DL	298428	7.56	1415817	9.81	1265796	14.81

CBM = Chlorobromomethane (IS)
DFBZ = 1,4-Difluorobenzene
CBZd5 = 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 TO 15 LL

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 Lab Sample ID: 140-5720-1

Matrix: Air Lab File ID: EI01P102.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: Dilution Factor: 1.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.44	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.44	
75-34-3	1,1-Dichloroethane	98.96	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.44	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.44	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.8		0.44	
106-93-4	1,2-Dibromoethane	187.87	ND		0.44	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.44	
107-06-2	1,2-Dichloroethane	98.96	ND		0.44	
78-87-5	1,2-Dichloropropane	112.99	ND		0.44	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.44	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.44	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.44	
106-46-7	1,4-Dichlorobenzene	147.00	18		0.44	
123-91-1	1,4-Dioxane	88.11	ND		1.1	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.1	
78-93-3	2-Butanone	72.11	12		1.8	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.5		1.1	
71-43-2	Benzene	78.11	2.5		0.44	
100-44-7	Benzyl chloride	126.58	ND		0.88	
75-27-4	Bromodichloromethane	163.83	0.44		0.44	
75-25-2	Bromoform	252.75	ND		0.44	
74-83-9	Bromomethane	94.94	ND		0.44	
56-23-5	Carbon tetrachloride	153.81	ND		0.22	
108-90-7	Chlorobenzene	112.56	ND		0.44	
75-00-3	Chloroethane	64.52	ND		0.44	
67-66-3	Chloroform	119.38	5.8		0.44	
74-87-3	Chloromethane	50.49	ND		1.1	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.44	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.44	
110-82-7	Cyclohexane	84.16	ND		1.1	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 Lab Sample ID: 140-5720-1

Matrix: Air Lab File ID: EI01P102.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: Dilution Factor: 1.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.44	
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.44	
64-17-5	Ethanol	46.07	11		11	
100-41-4	Ethylbenzene	106.17	1.1		0.44	
87-68-3	Hexachlorobutadiene	260.76	ND		0.44	
110-54-3	Hexane	86.17	8.2		1.1	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.88	
75-09-2	Methylene Chloride	84.93	ND		1.1	
179601-23-1	m-Xylene & p-Xylene	106.17	3.9		0.44	
95-47-6	o-Xylene	106.17	1.9		0.44	
100-42-5	Styrene	104.15	ND		0.44	
75-65-0	t-Butyl alcohol	74.12	2.0		1.8	
127-18-4	Tetrachloroethene	165.83	2.6		0.44	
108-88-3	Toluene	92.14	4.3		0.66	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.44	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.44	
79-01-6	Trichloroethene	131.39	ND		0.22	
75-69-4	Trichlorofluoromethane	137.37	2.9		0.44	
75-01-4	Vinyl chloride	62.50	ND		0.22	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 Lab Sample ID: 140-5720-1

Matrix: Air Lab File ID: EI01P102.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: Dilution Factor: 1.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.4	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		3.0	
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.4	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.4	
75-34-3	1,1-Dichloroethane	98.96	ND		1.8	
75-35-4	1,1-Dichloroethene	96.94	ND		1.7	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.3	
95-63-6	1,2,4-Trimethylbenzene	120.20	8.9		2.2	
106-93-4	1,2-Dibromoethane	187.87	ND		3.4	
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.6	
107-06-2	1,2-Dichloroethane	98.96	ND		1.8	
78-87-5	1,2-Dichloropropane	112.99	ND		2.0	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		3.1	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		2.2	
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.6	
106-46-7	1,4-Dichlorobenzene	147.00	110		2.6	
123-91-1	1,4-Dioxane	88.11	ND		4.0	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		5.1	
78-93-3	2-Butanone	72.11	36		5.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	6.0		4.5	
71-43-2	Benzene	78.11	8.1		1.4	
100-44-7	Benzyl chloride	126.58	ND		4.6	
75-27-4	Bromodichloromethane	163.83	3.0		2.9	
75-25-2	Bromoform	252.75	ND		4.5	
74-83-9	Bromomethane	94.94	ND		1.7	
56-23-5	Carbon tetrachloride	153.81	ND		1.4	
108-90-7	Chlorobenzene	112.56	ND		2.0	
75-00-3	Chloroethane	64.52	ND		1.2	
67-66-3	Chloroform	119.38	28		2.1	
74-87-3	Chloromethane	50.49	ND		2.3	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.7	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		2.0	
110-82-7	Cyclohexane	84.16	ND		3.8	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 Lab Sample ID: 140-5720-1

Matrix: Air Lab File ID: EI01P102.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: Dilution Factor: 1.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		3.7	
75-71-8	Dichlorodifluoromethane	120.91	2.2		2.2	
64-17-5	Ethanol	46.07	20		21	
100-41-4	Ethylbenzene	106.17	4.7		1.9	
87-68-3	Hexachlorobutadiene	260.76	ND		4.7	
110-54-3	Hexane	86.17	29		3.9	
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.2	
75-09-2	Methylene Chloride	84.93	ND		3.8	
179601-23-1	m-Xylene & p-Xylene	106.17	17		1.9	
95-47-6	o-Xylene	106.17	8.2		1.9	
100-42-5	Styrene	104.15	ND		1.9	
75-65-0	t-Butyl alcohol	74.12	6.0		5.3	
127-18-4	Tetrachloroethene	165.83	17		3.0	
108-88-3	Toluene	92.14	16		2.5	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.7	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		2.0	
79-01-6	Trichloroethene	131.39	ND		1.2	
75-69-4	Trichlorofluoromethane	137.37	16		2.5	
75-01-4	Vinyl chloride	62.50	ND		0.56	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D
Lims ID: 140-5720-A-1
Client ID: SG-215
Sample Type: Client
Inject. Date: 01-Sep-2016 12:54:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.6500
Sample Info: 140-0003369-005
Misc. Info.: 140-5720-a-1@1.65
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 15:59:08 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 15:59:08

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	73	224239	4.00	
*	2 1,4-Difluorobenzene	114	9.811	9.811	0.000	95	1060206	4.00	
*	3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1070479	4.00	
$	4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	86	948531	4.33	
	8 Dichlorodifluoromethane	85	2.946	2.946	0.000	99	19019	0.0807	
	9 Chloromethane	52	3.103	3.097	0.006	95	1658	0.1095	M
	16 Chloroethane	64	3.701	3.696	0.005	17	575	0.0179	
	17 Ethanol	31	3.777	3.777	0.000	99	30370	1.91	
	20 Trichlorofluoromethane	101	4.170	4.165	0.005	99	121709	0.5332	
	28 2-Methyl-2-propanol	59	4.882	4.877	0.005	92	33367	0.3594	
	30 1,1,2-Trichloro-1,2,2-trif	101	4.952	4.942	0.010	93	3132	0.0212	
	31 Methylene Chloride	84	5.114	5.103	0.011	84	7527	0.1070	
	39 2-Butanone (MEK)	72	6.829	6.834	-0.005	97	73298	2.24	
	40 Hexane	56	6.845	6.840	0.005	79	65085	1.49	
	44 Chloroform	83	7.584	7.584	0.000	97	197843	1.06	
	47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	96	10029	0.0479	
	50 Cyclohexane	69	9.207	9.196	0.011	52	6490	0.1806	
	51 Benzene	78	9.201	9.202	-0.001	95	99669	0.4587	
	56 Isooctane	57	10.043	10.037	0.006	89	20055	0.0794	
	61 Dichlorobromomethane	83	10.835	10.835	0.000	70	14886	0.0808	
	65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	92	22499	0.2641	
	68 Toluene	91	12.777	12.777	0.000	94	202334	0.7881	
	74 Chlorodibromomethane	129	13.580	13.586	-0.006	93	2931	0.0177	
	76 Tetrachloroethene	129	13.963	13.963	0.000	93	46365	0.4642	
	79 Ethylbenzene	91	15.160	15.166	-0.006	98	67805	0.1968	
	81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	192193	0.7154	
	84 Styrene	104	15.802	15.802	0.000	94	10174	0.0588	
	85 o-Xylene	91	15.861	15.861	0.000	98	97300	0.3451	
	92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	90	12671	0.0775	
	96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	98	99567	0.3290	
	100 1,4-Dichlorobenzene	146	18.110	18.110	0.000	92	575427	3.22	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40MXISSURP_00001	Amount Added:	40.00	Units: mL	Run Reagent

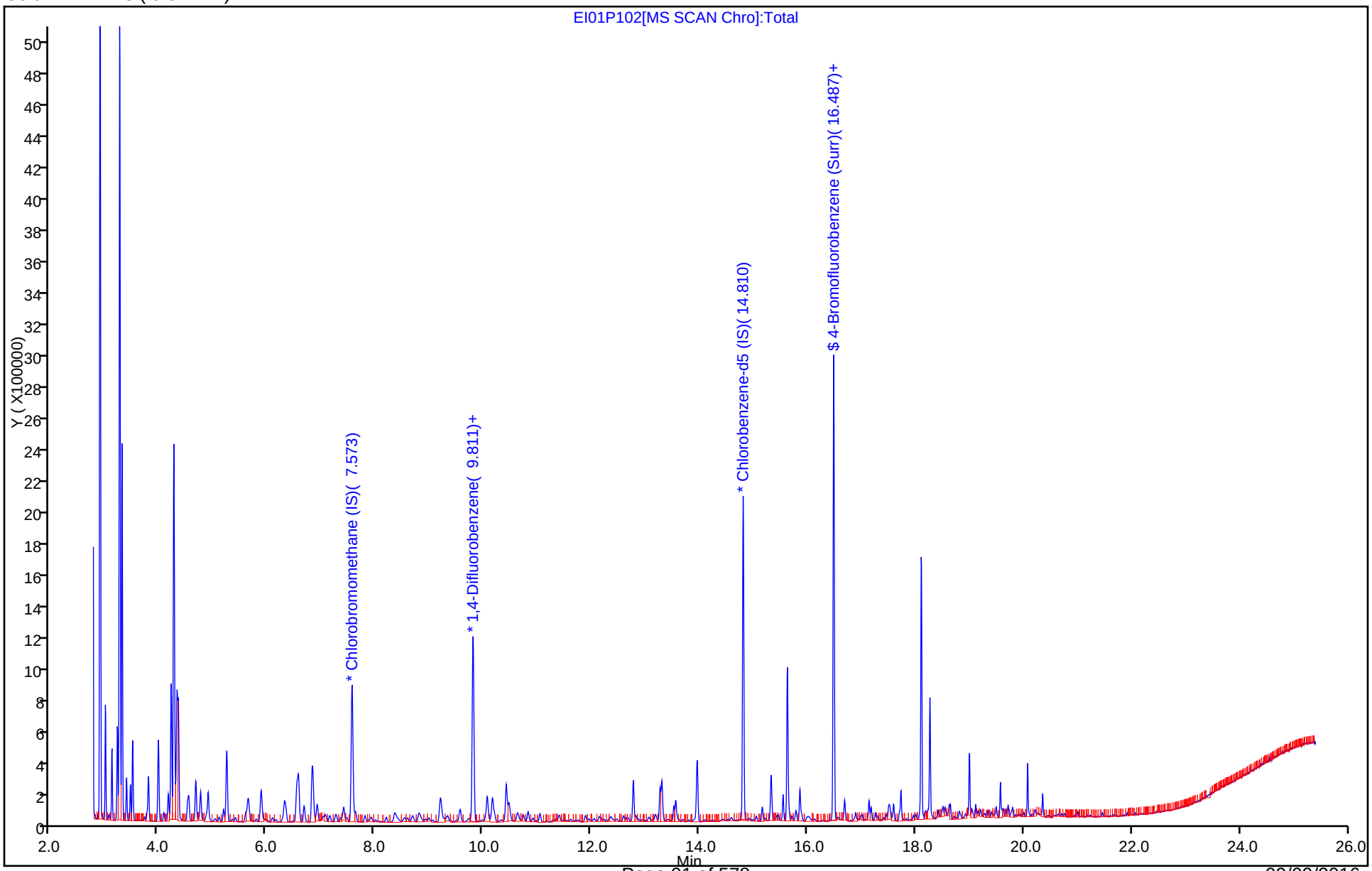
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D

Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1	Worklist Smp#:	5
Client ID:	SG-215				
Purge Vol:	500.000 mL	Dil. Factor:	1.6500	ALS Bottle#:	2
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D				
Lims ID:	140-5720-A-1				
Client ID:	SG-215				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 12:54:30	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Sample Info:	140-0003369-005				
Misc. Info.:	140-5720-a-1@1.65				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 15:59:08	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

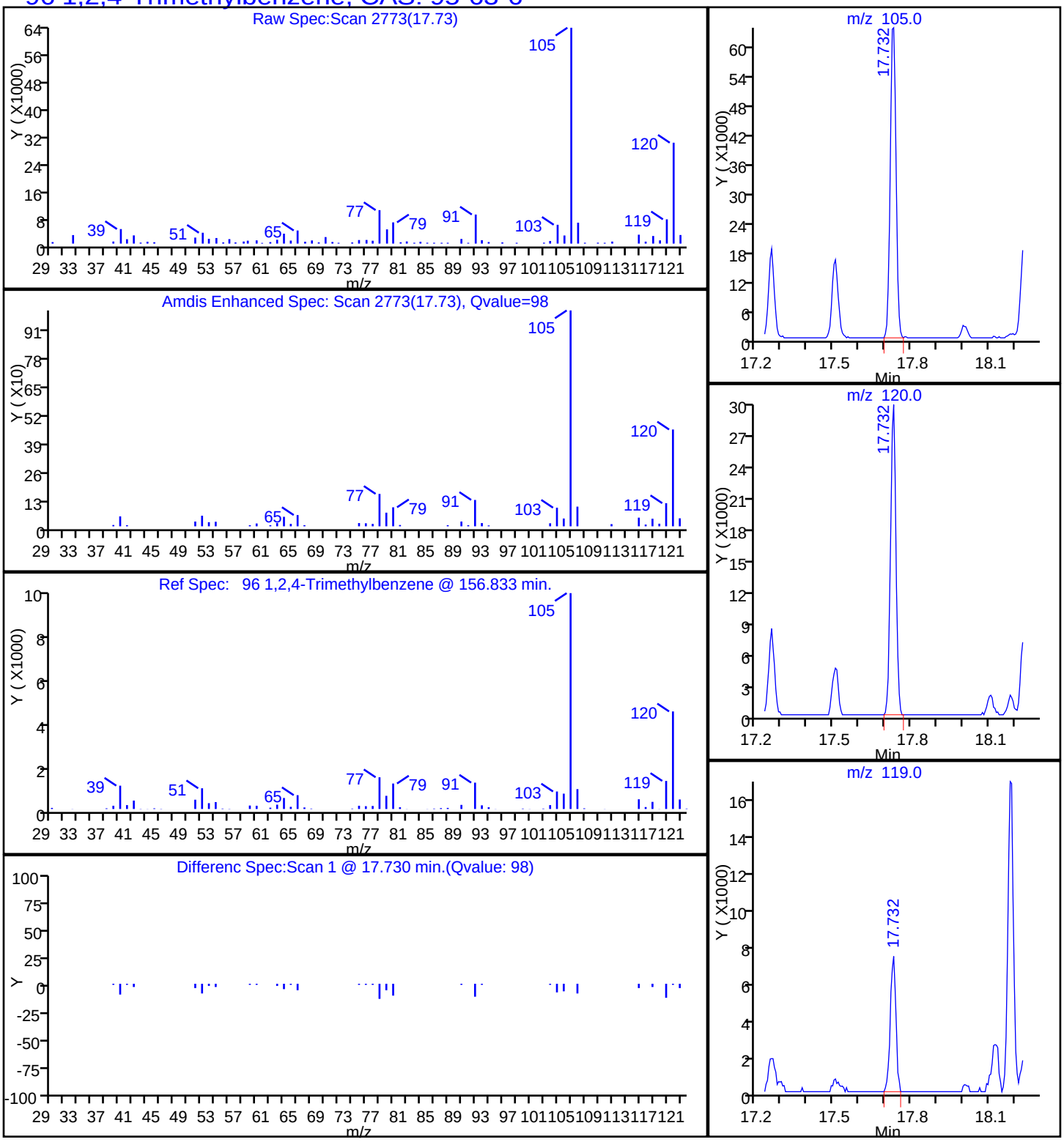
First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 15:59:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.33	108.26

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D		
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1
Client ID:	SG-215		
Operator ID:	007126	ALS Bottle#:	2 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

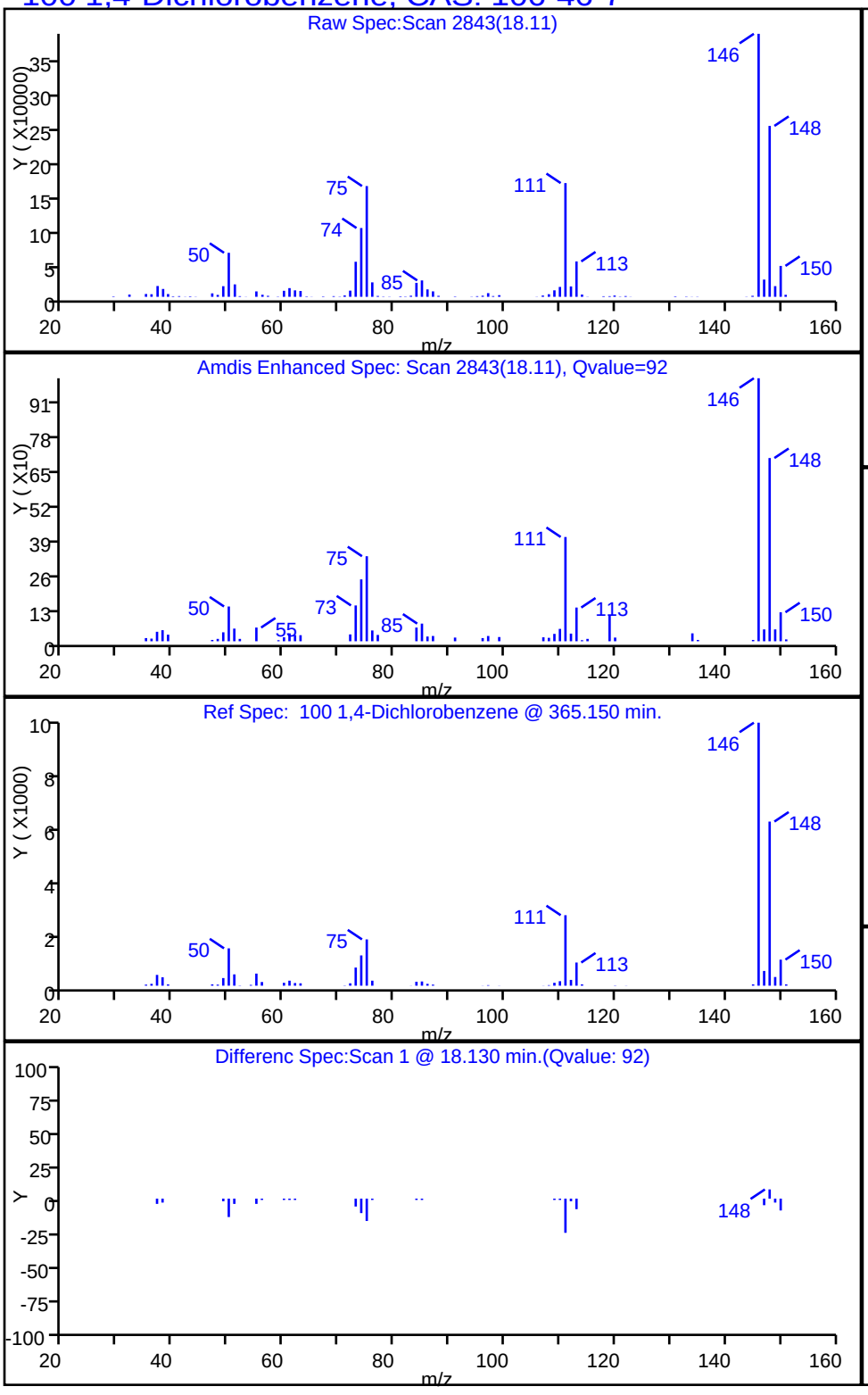
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

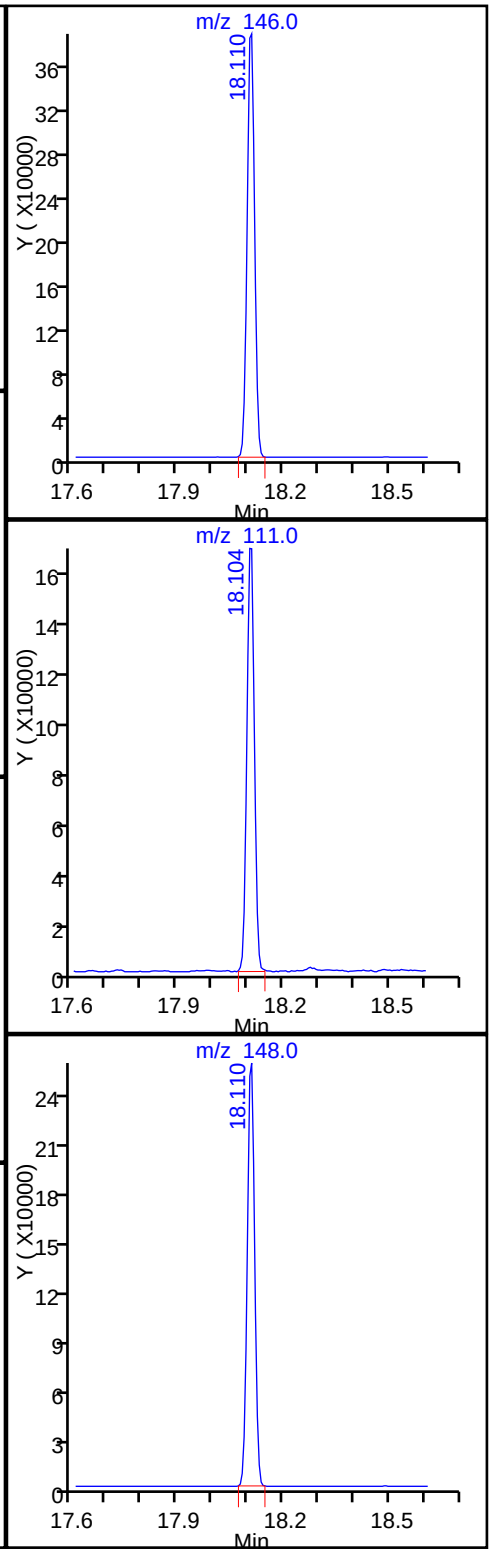


TestAmerica Knoxville

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Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

100 1,4-Dichlorobenzene, CAS: 106-46-7





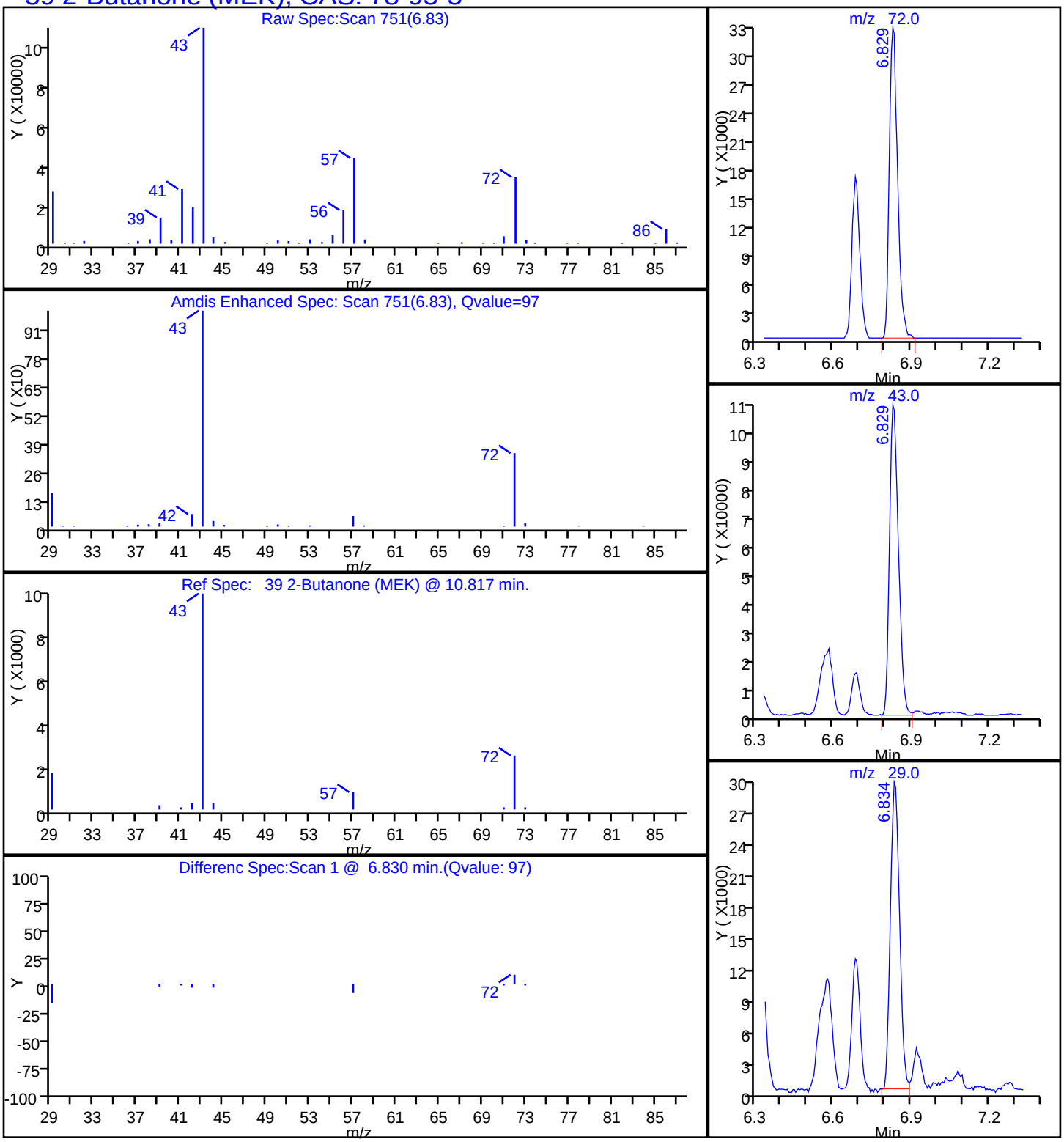
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D

Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_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

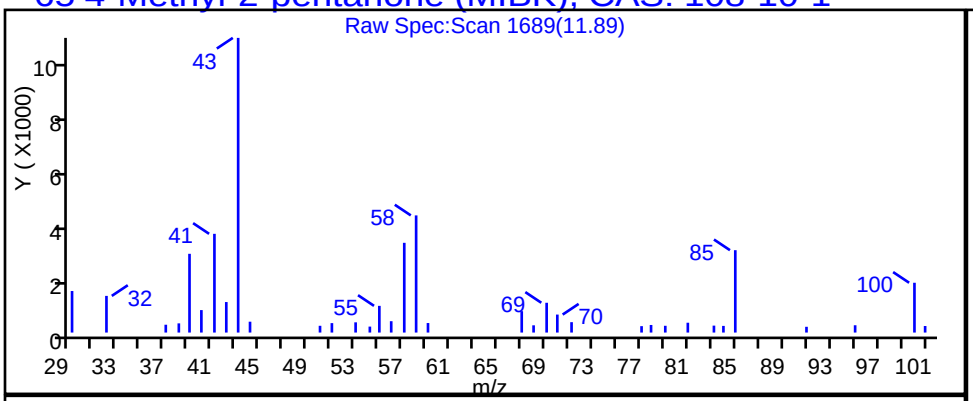


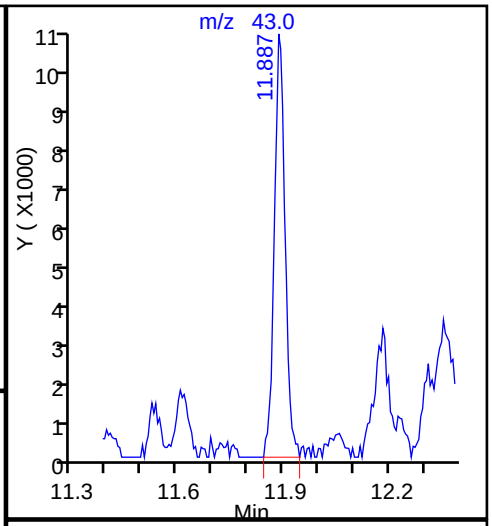
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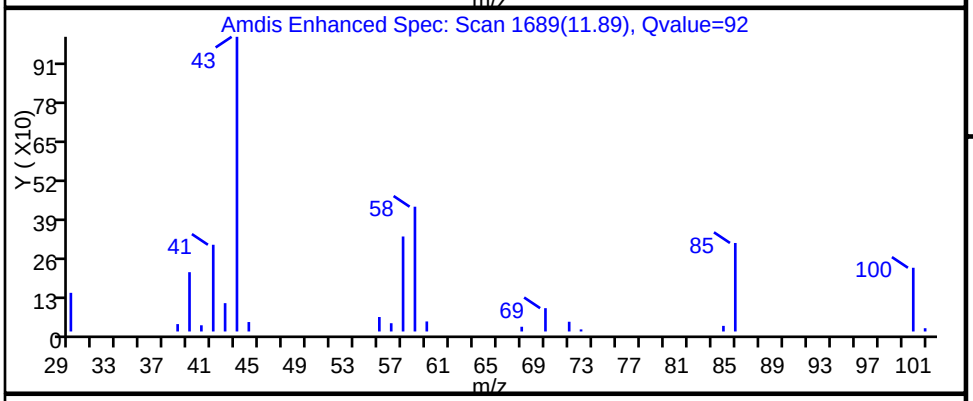
TestAmerica Knoxville

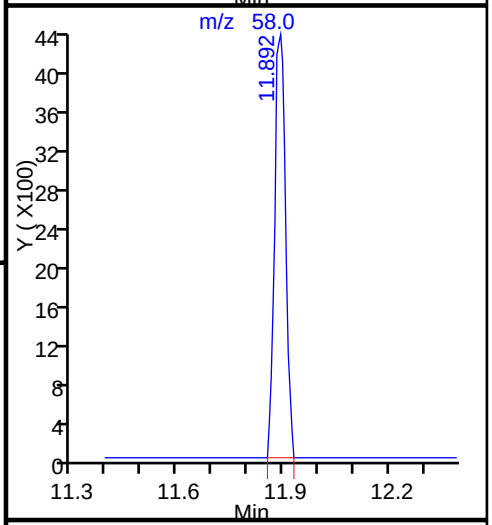
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Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

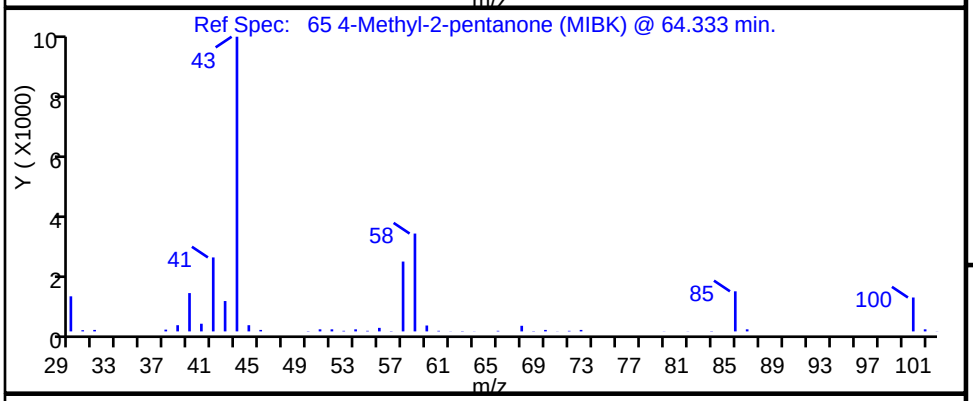
65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

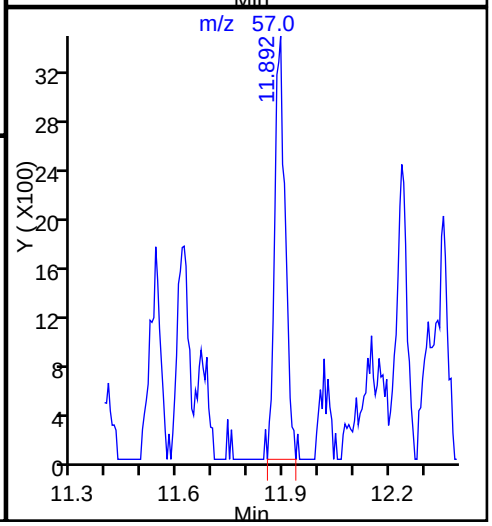


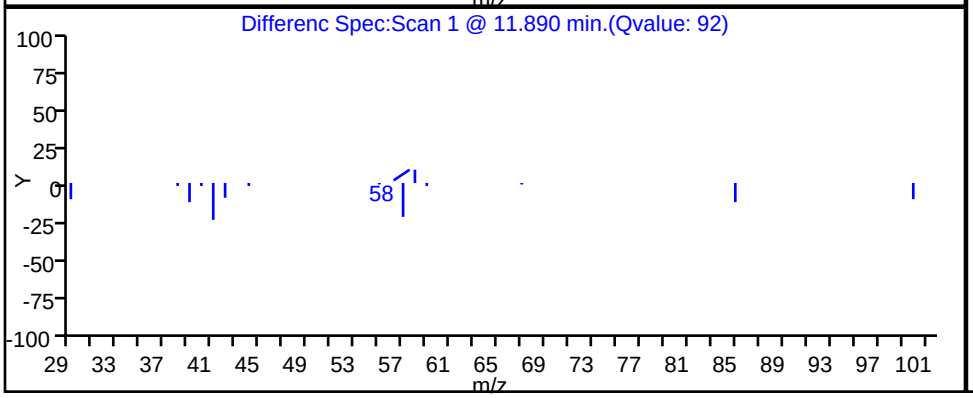








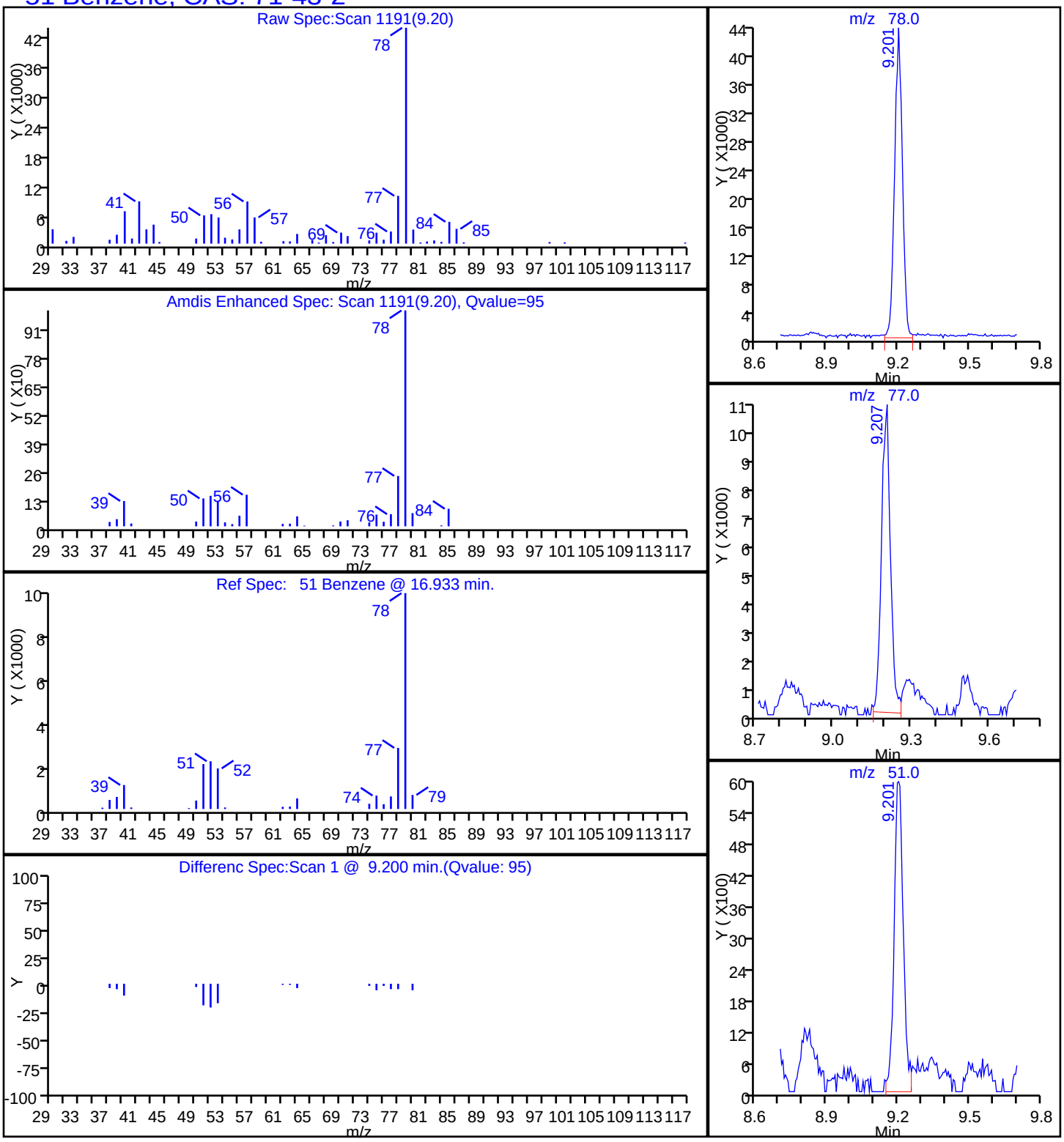




TestAmerica Knoxville

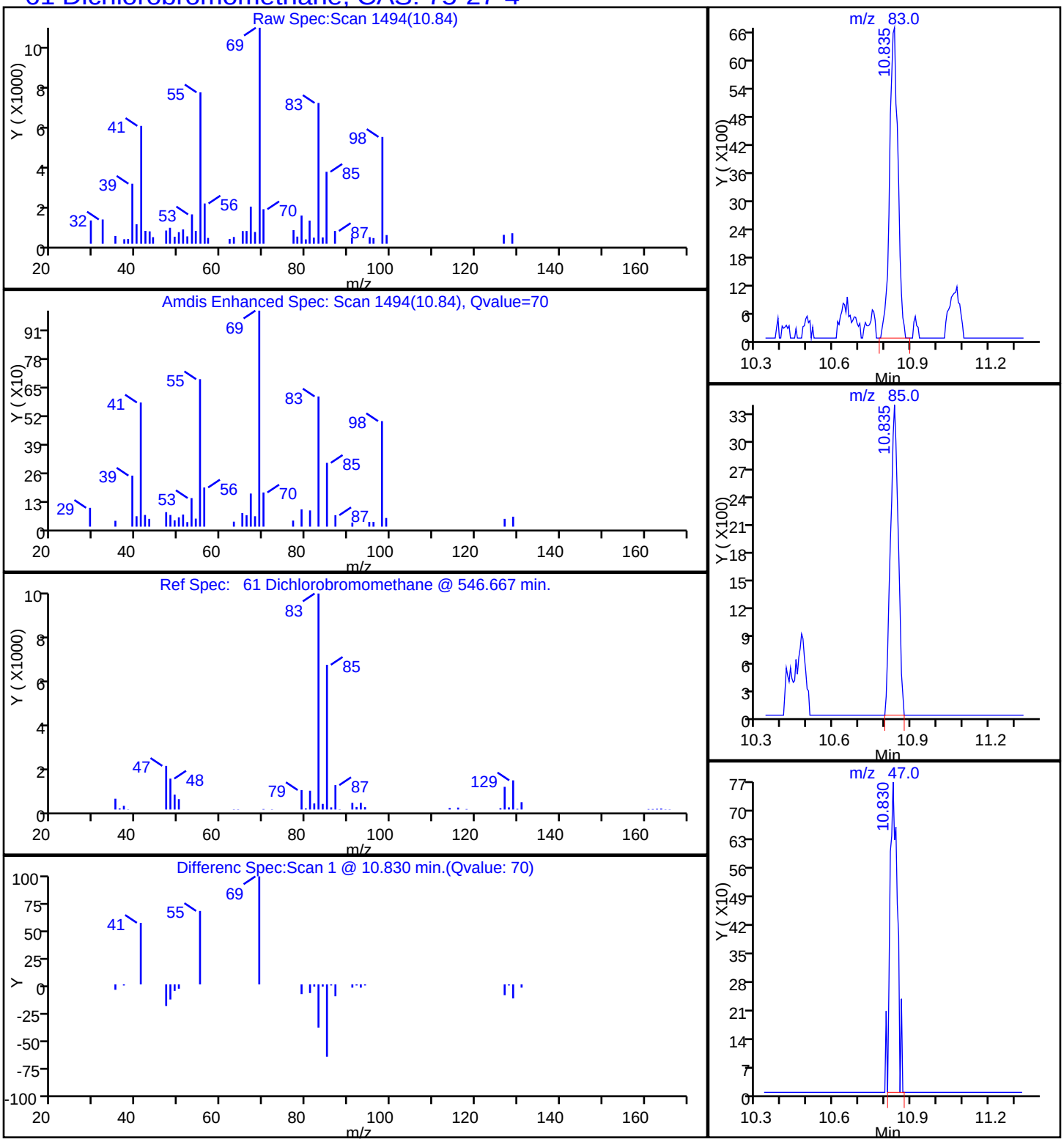
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Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1
Client ID:	SG-215		
Operator ID:	007126	ALS Bottle#:	2 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

51 Benzene, CAS: 71-43-2



Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D		
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1
Client ID:	SG-215		
Operator ID:	007126	ALS Bottle#:	2 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

61 Dichlorobromomethane, CAS: 75-27-4

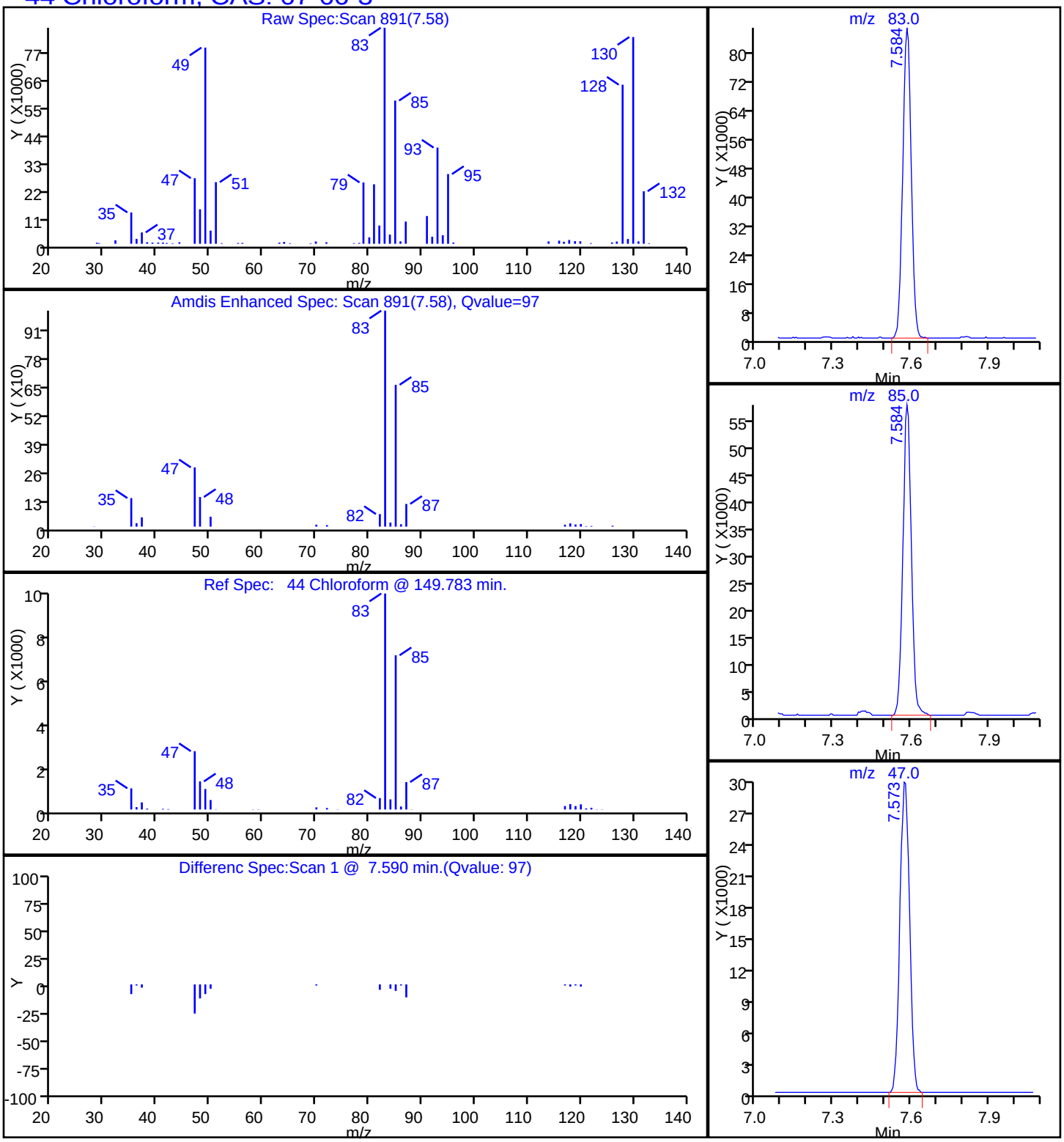


Report Date: 01-Sep-2016 15:59:09 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

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Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

44 Chloroform, CAS: 67-66-3

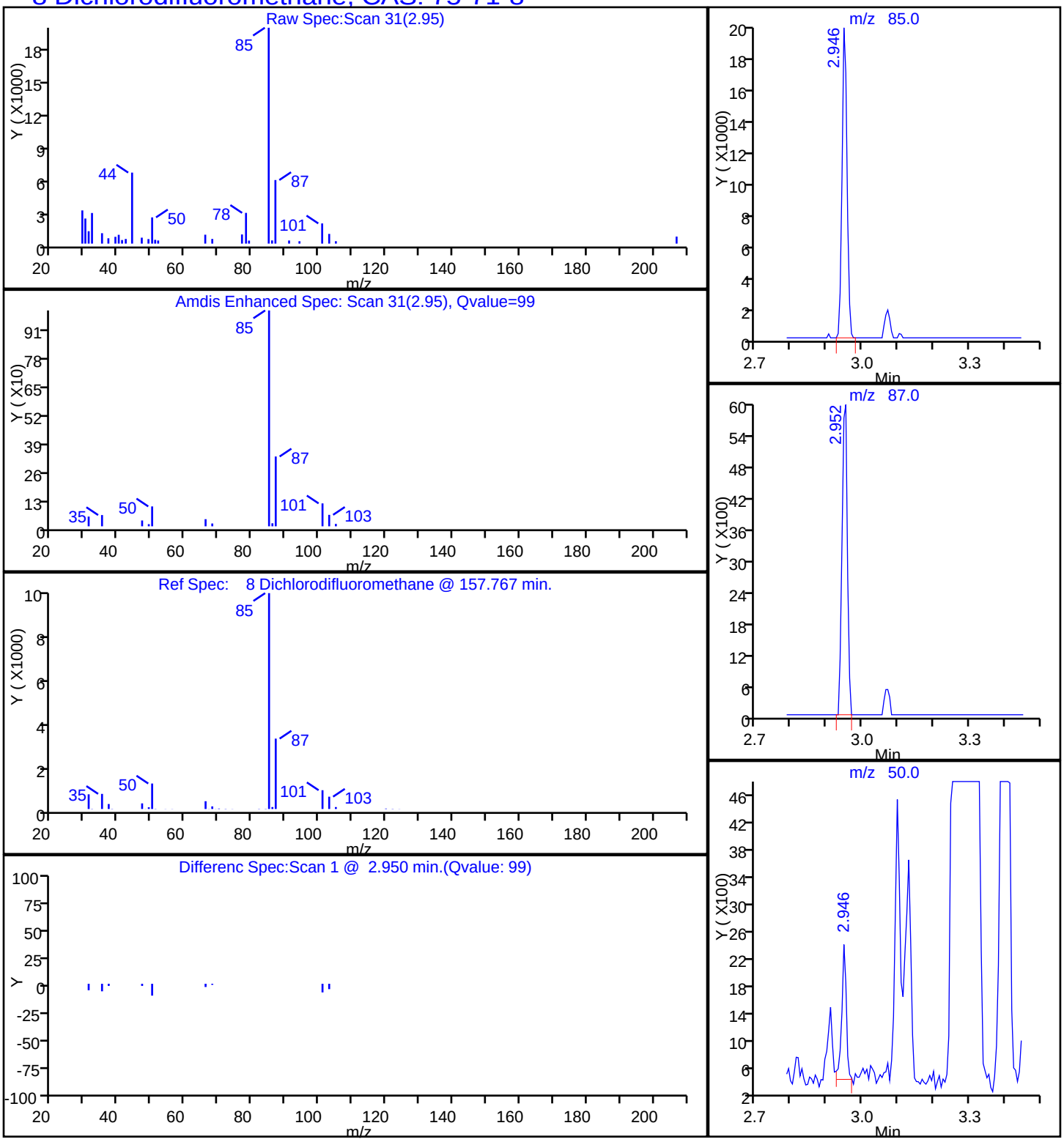


Report Date: 01-Sep-2016 15:59:09 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

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Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8

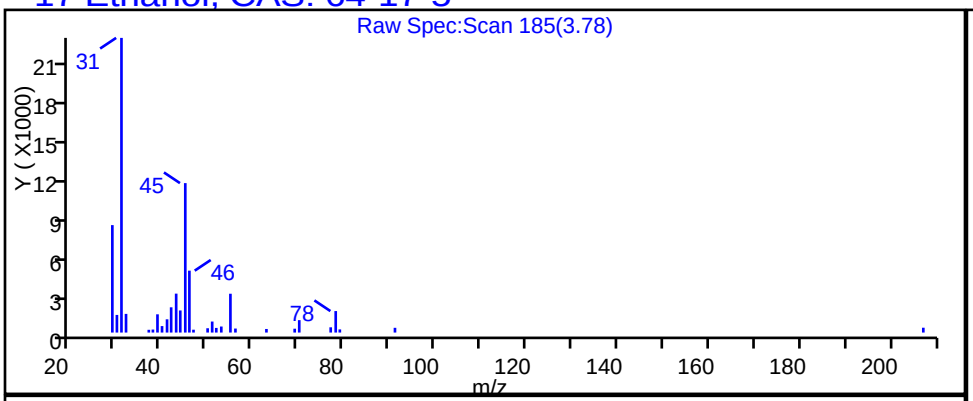


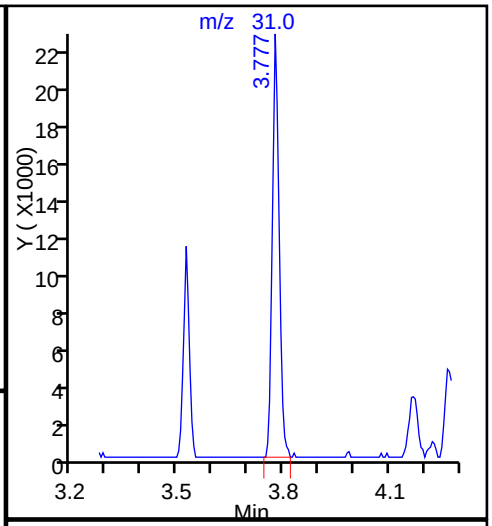
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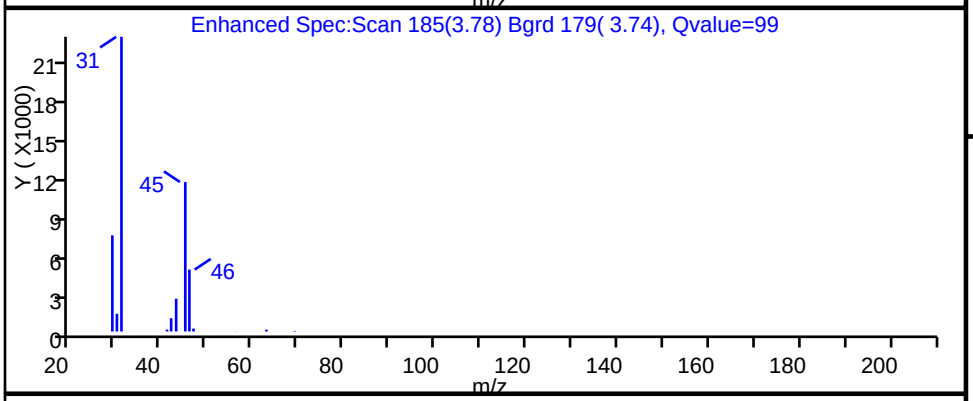
TestAmerica Knoxville

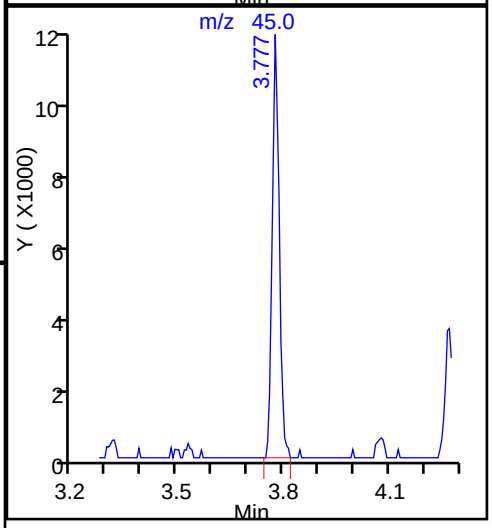
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Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1
Client ID:	SG-215		
Operator ID:	007126	ALS Bottle#:	2 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

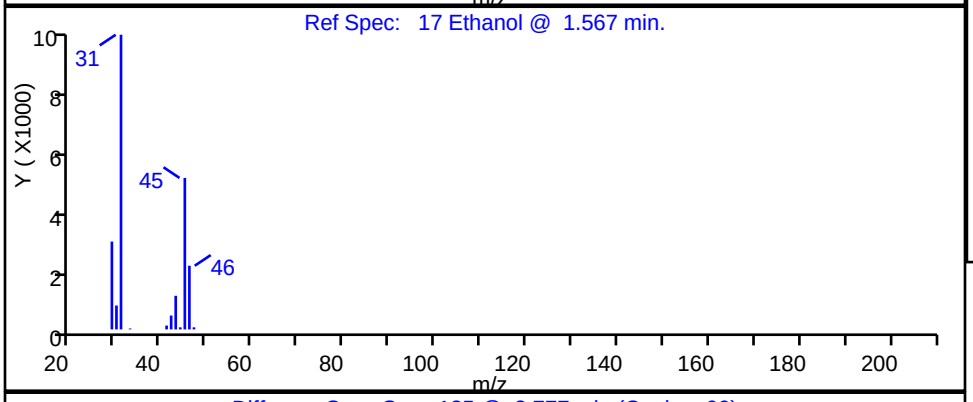
17 Ethanol, CAS: 64-17-5

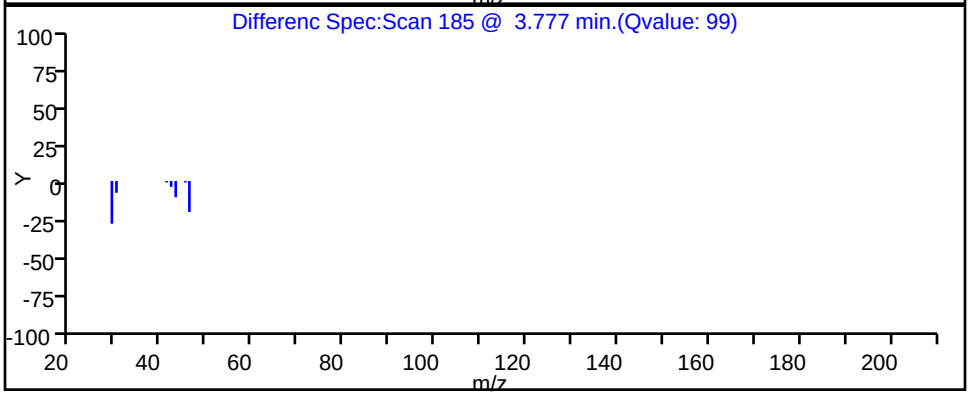






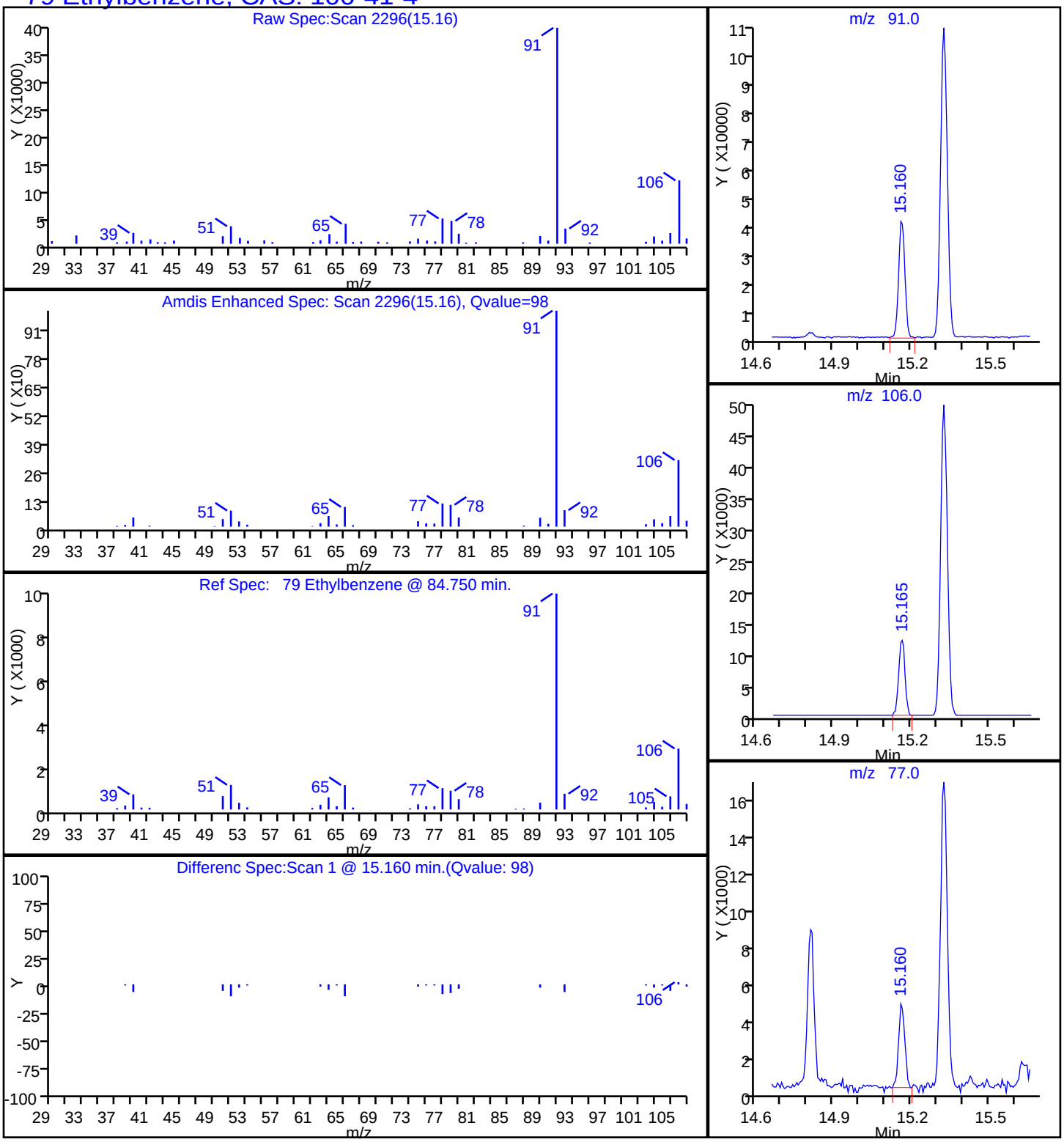






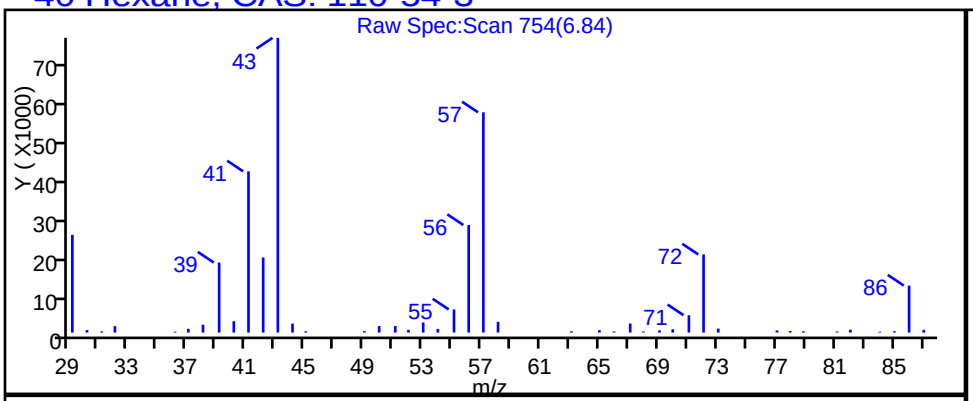
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Injection Date: 01-Sep-2016 12:54:30 Instrument ID: ME
Lims ID: 140-5720-A-1 Lab Sample ID: 140-5720-1
Client ID: SG-215
Operator ID: 007126 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.6500
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

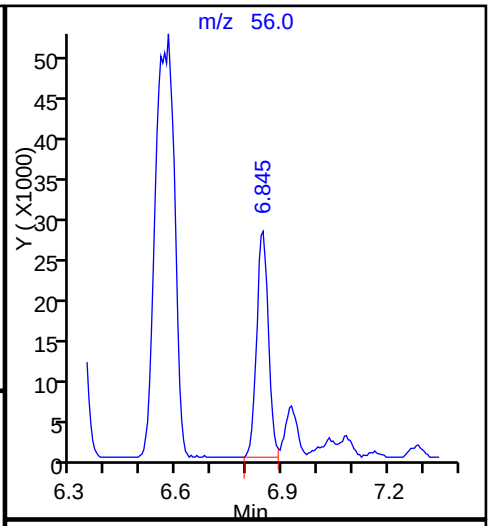
79 Ethylbenzene, CAS: 100-41-4

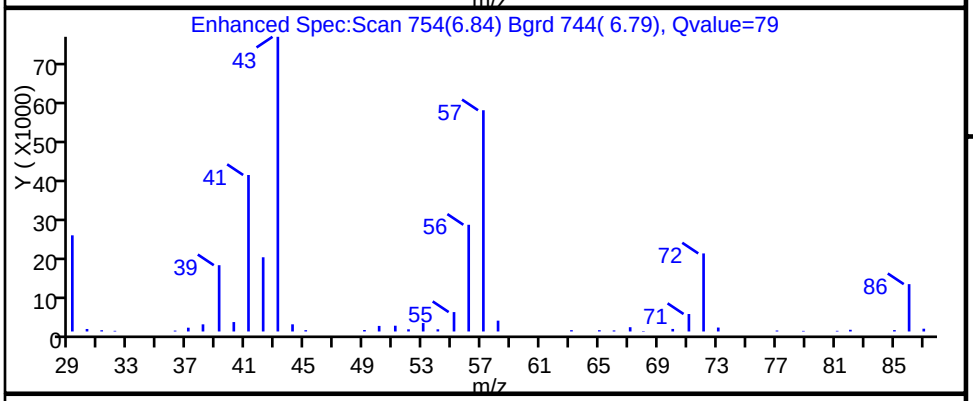


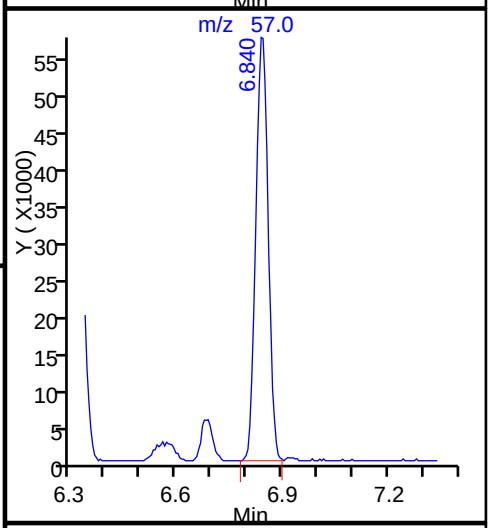
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Injection Date: 01-Sep-2016 12:54:30 Instrument ID: ME
Lims ID: 140-5720-A-1 Lab Sample ID: 140-5720-1
Client ID: SG-215
Operator ID: 007126 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.6500
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

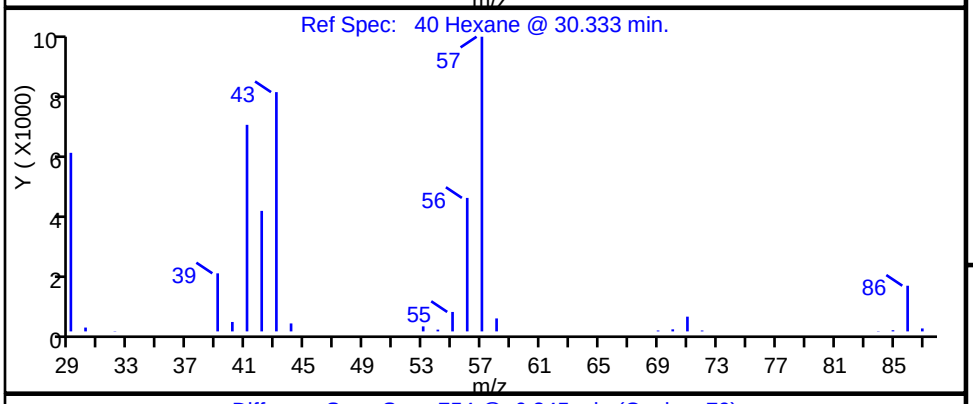
40 Hexane, CAS: 110-54-3

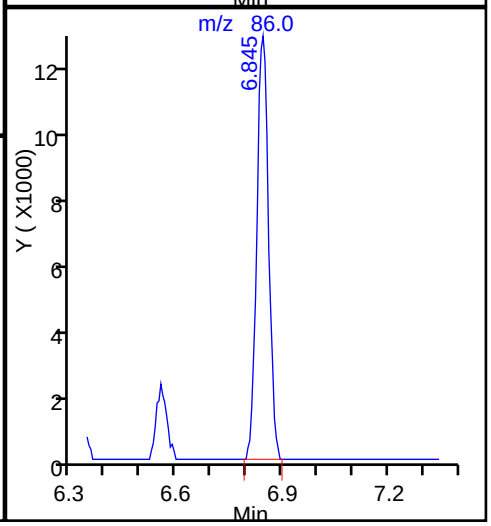


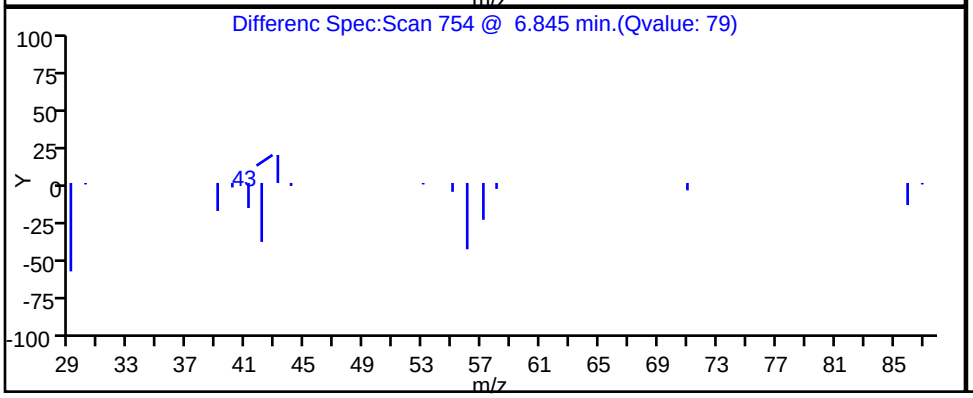










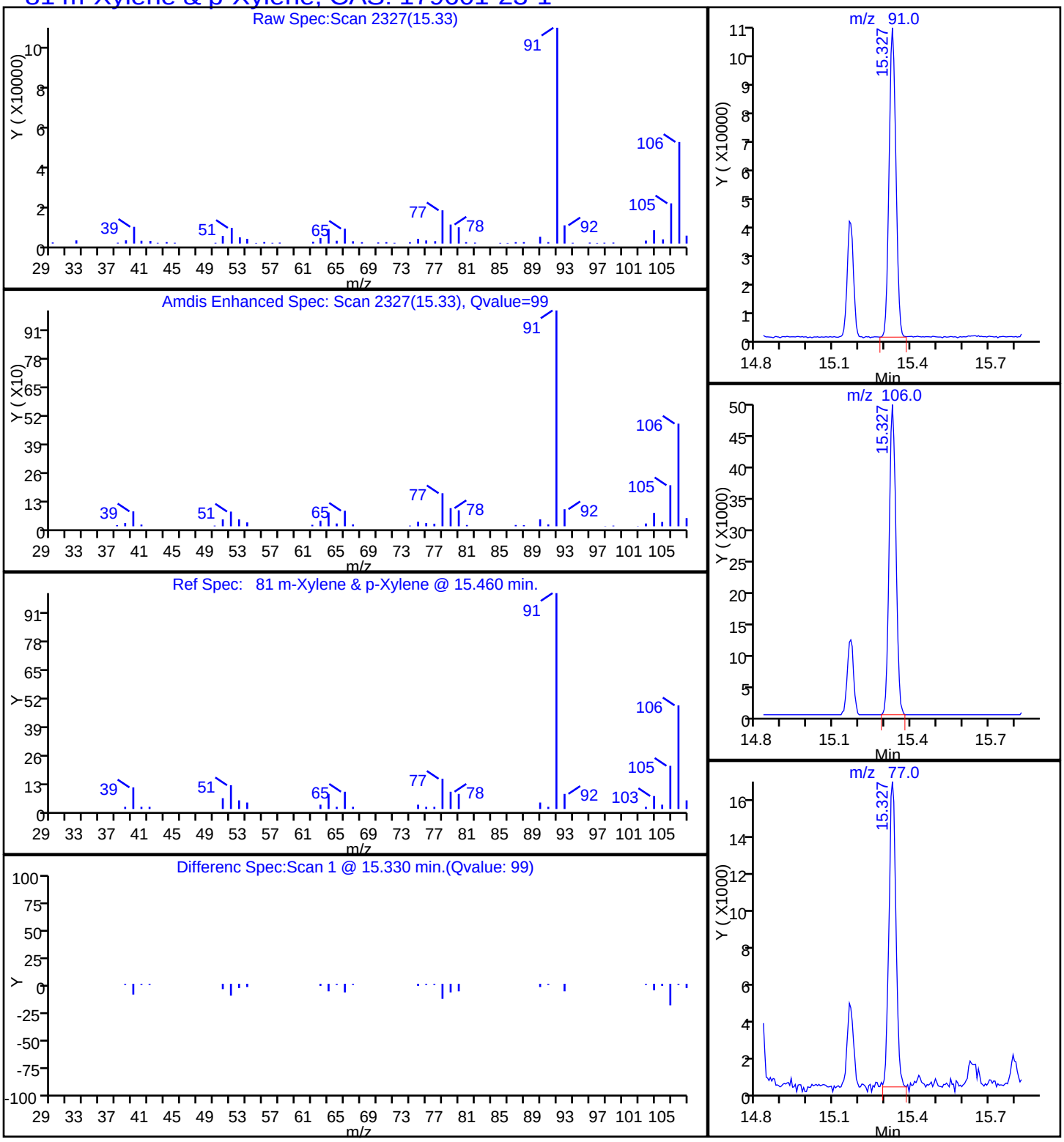


Report Date: 01-Sep-2016 15:59:10 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D				
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

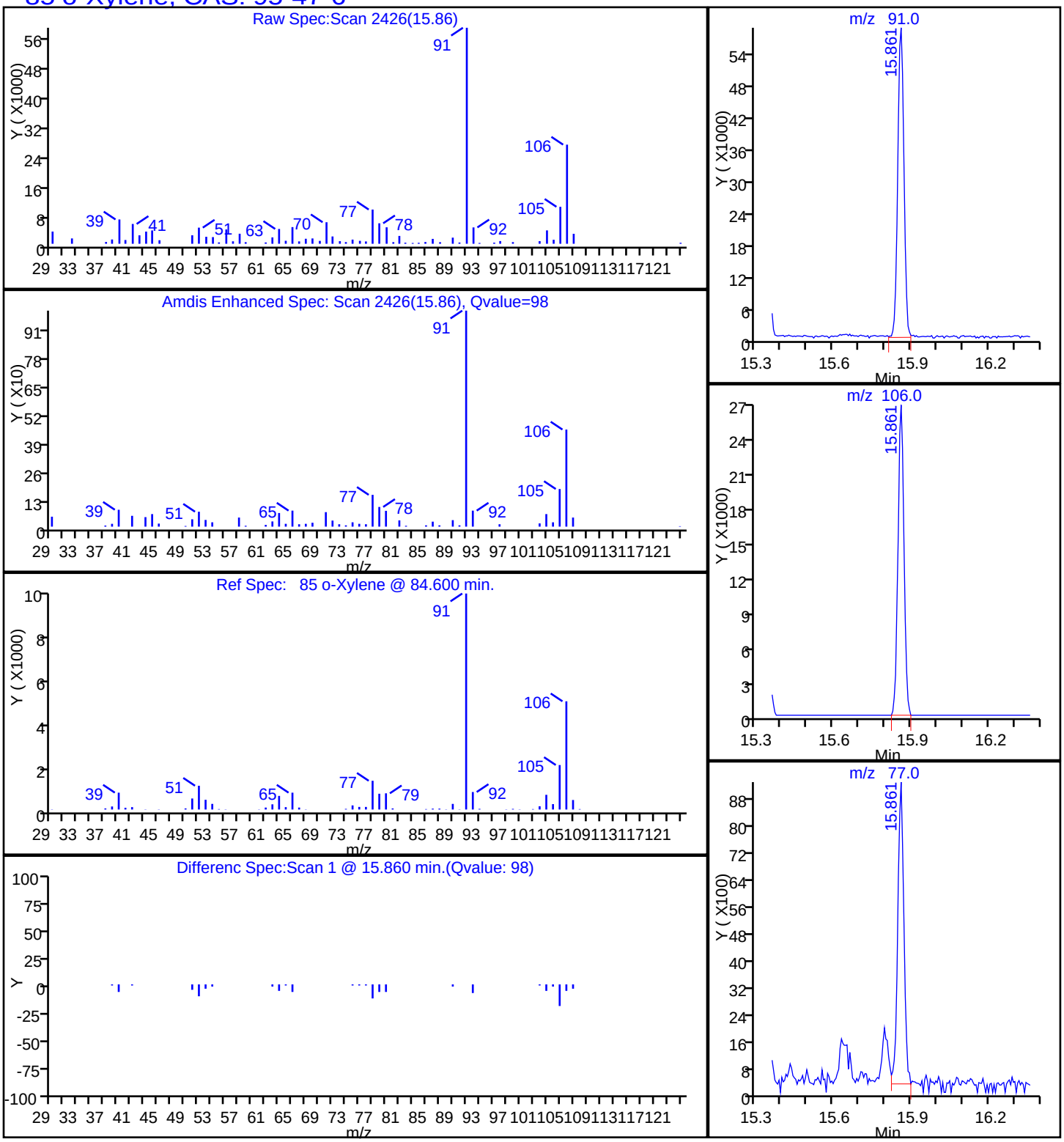
81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D				
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

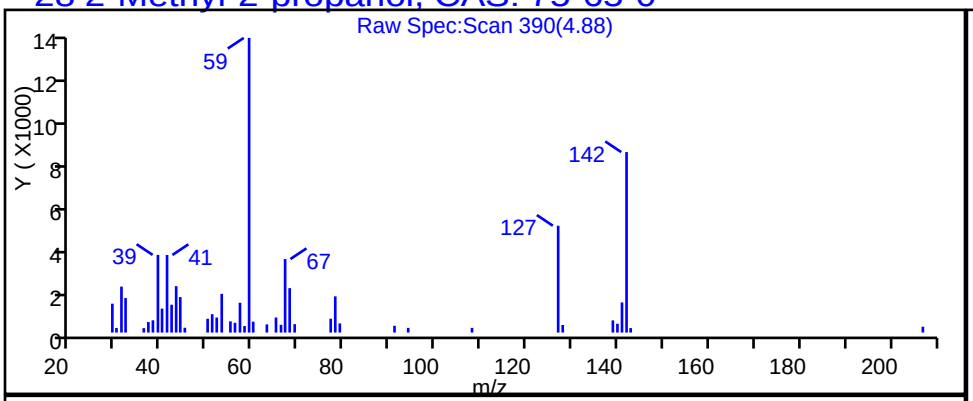
85 o-Xylene, CAS: 95-47-6

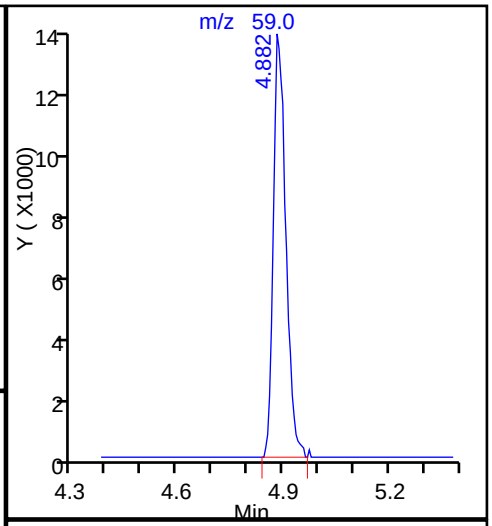


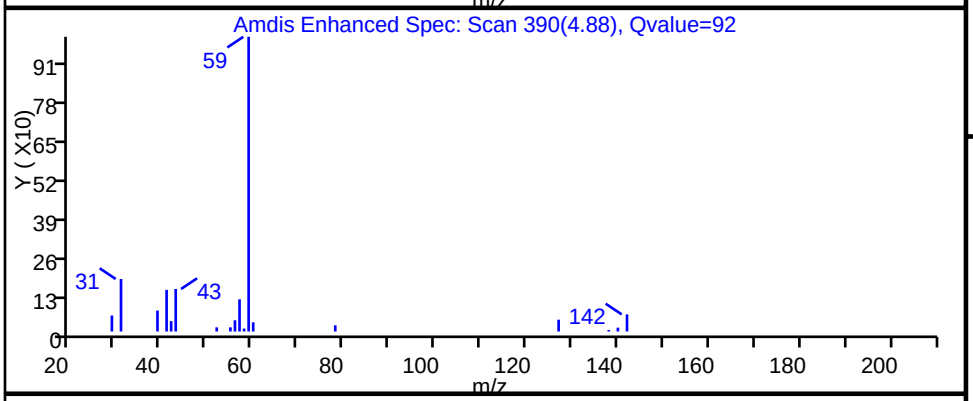
TestAmerica Knoxville

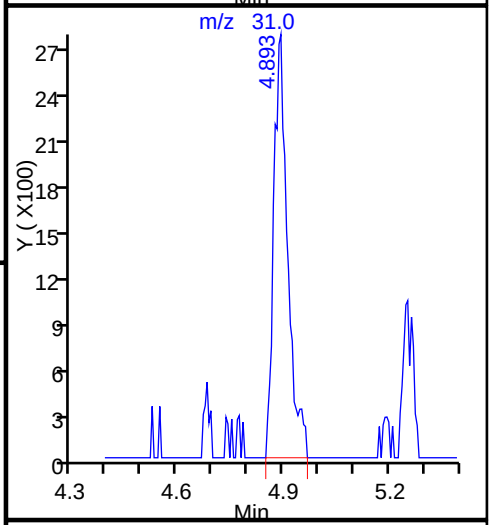
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Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1
Client ID:	SG-215		
Operator ID:	007126	ALS Bottle#:	2 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

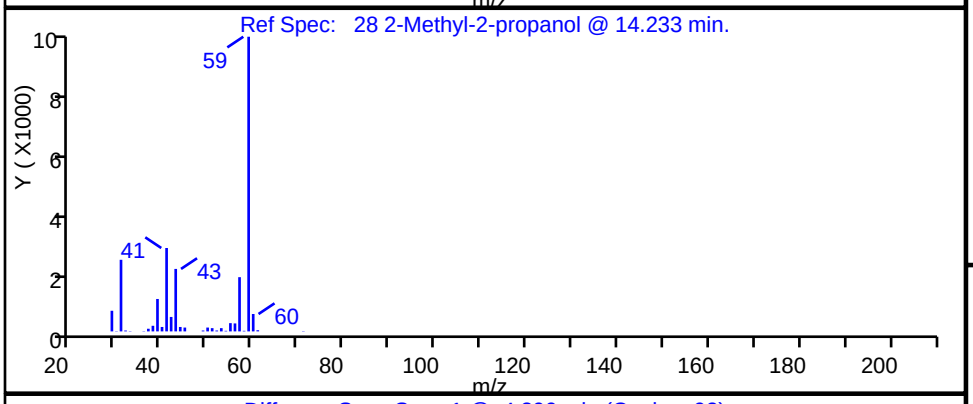
28 2-Methyl-2-propanol, CAS: 75-65-0

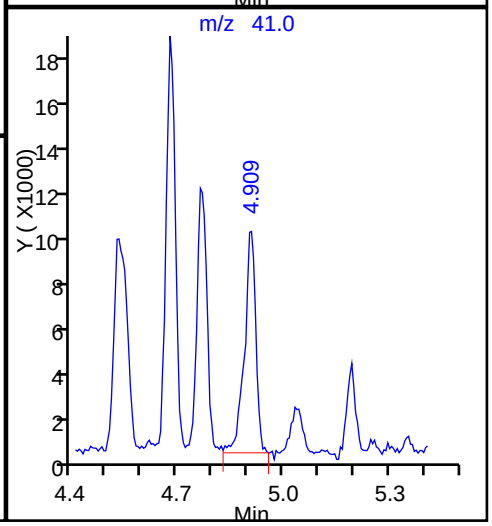


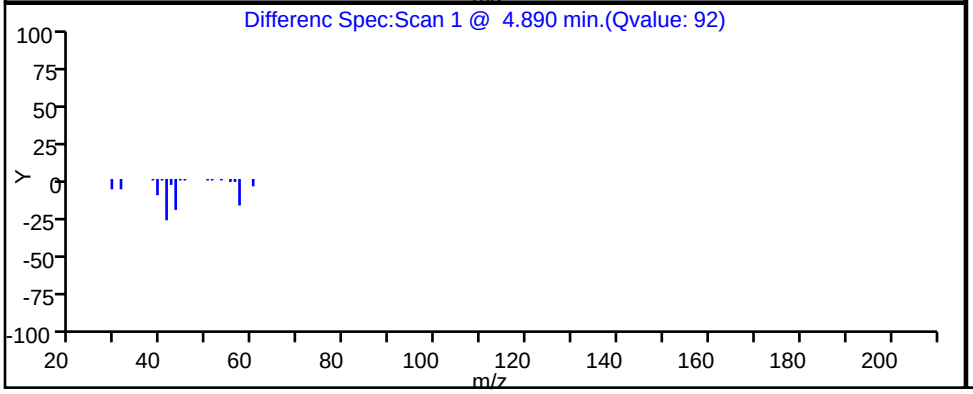








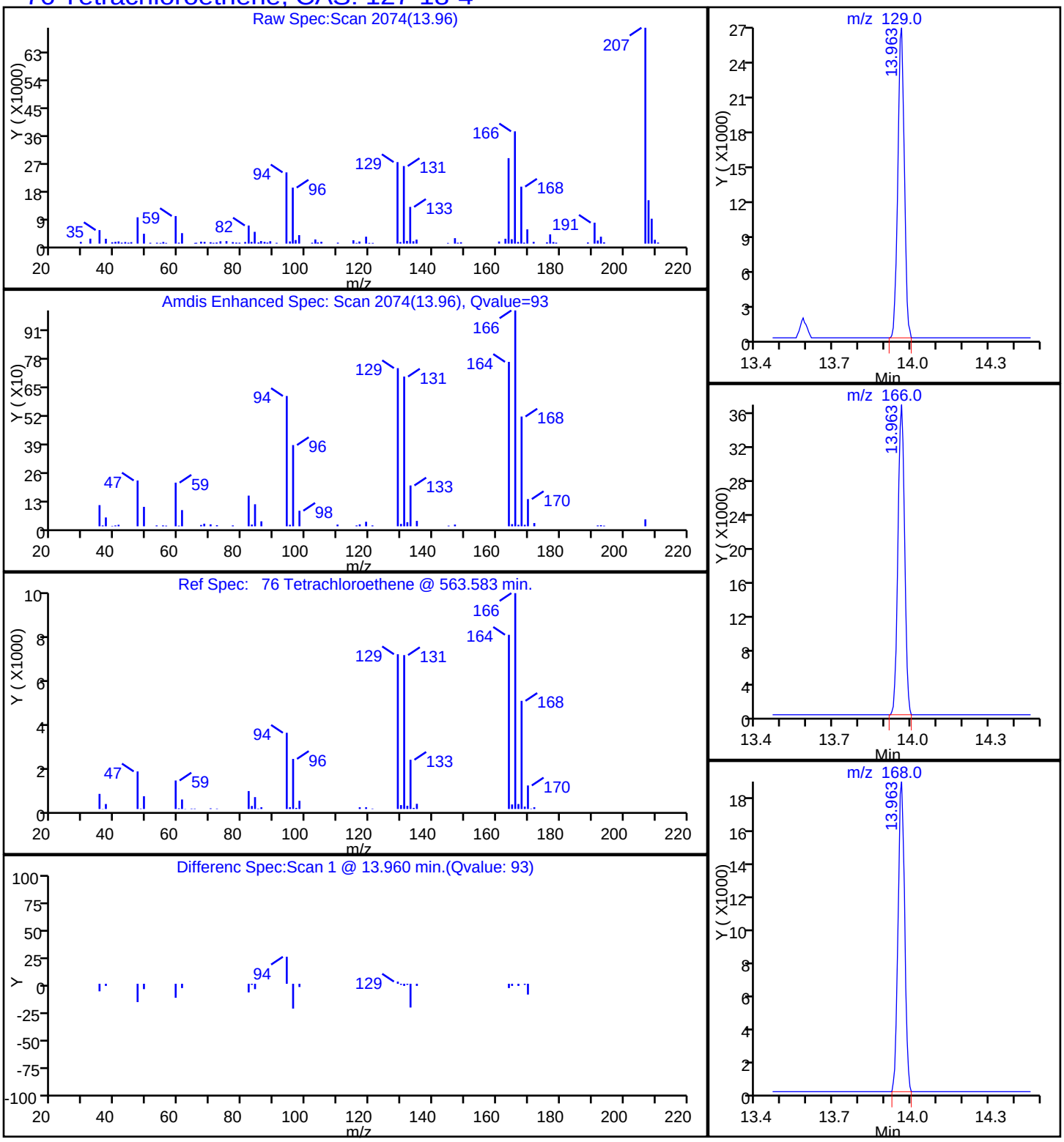




TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D				
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
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Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

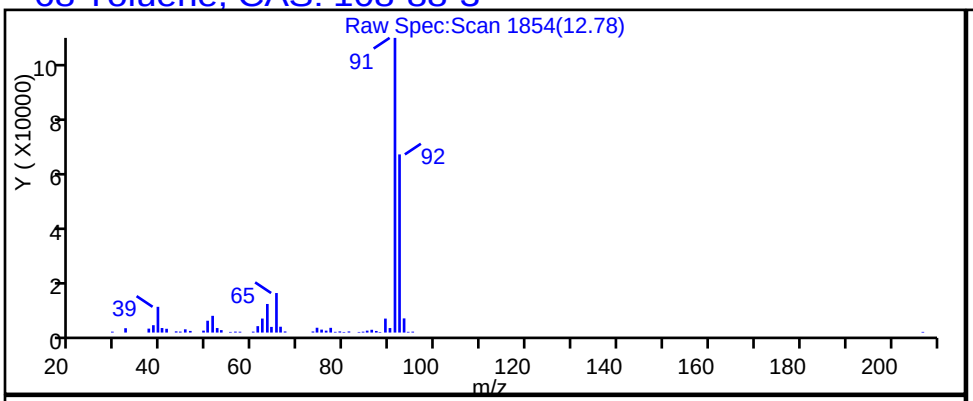
76 Tetrachloroethene, CAS: 127-18-4

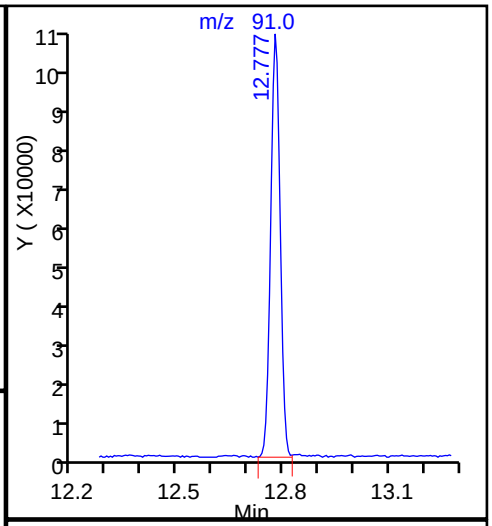


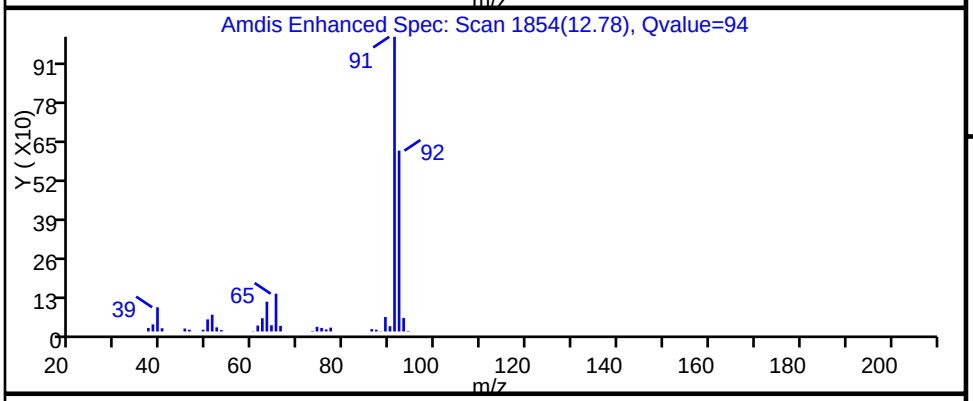
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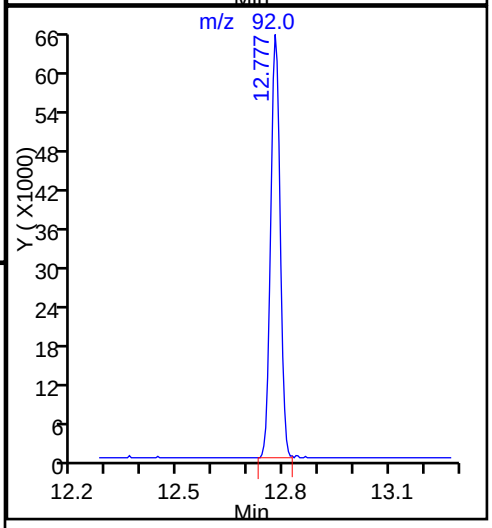
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D		
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1
Client ID:	SG-215		
Operator ID:	007126	ALS Bottle#:	2 Worklist Smp#: 5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

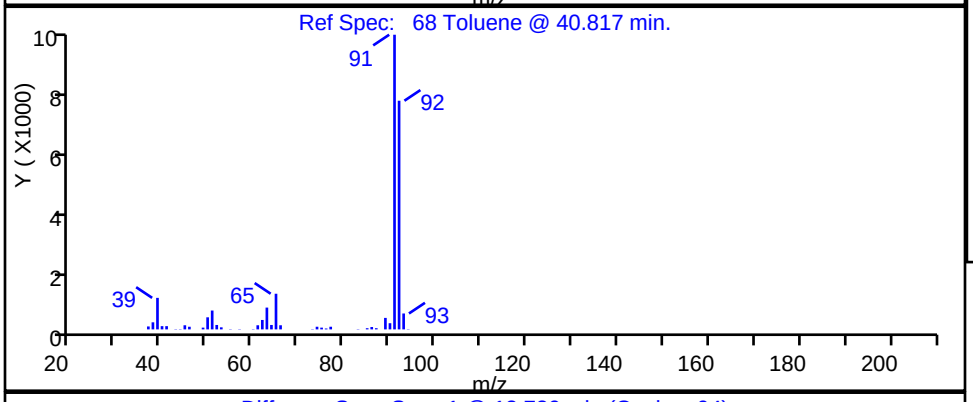
68 Toluene, CAS: 108-88-3

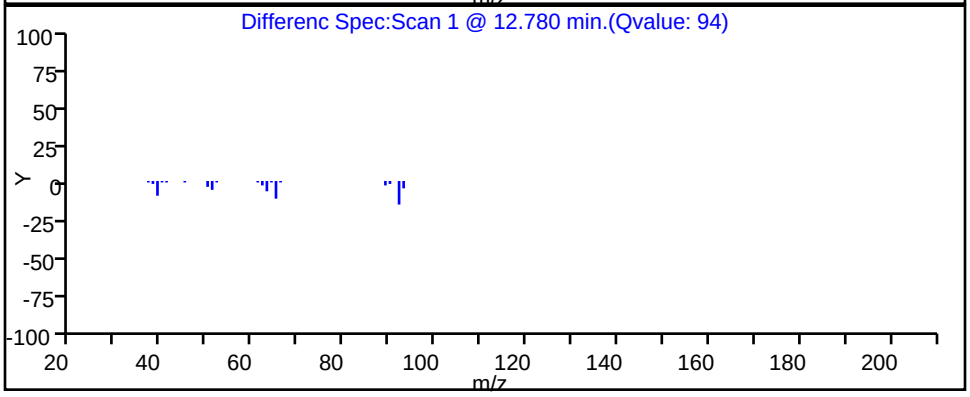








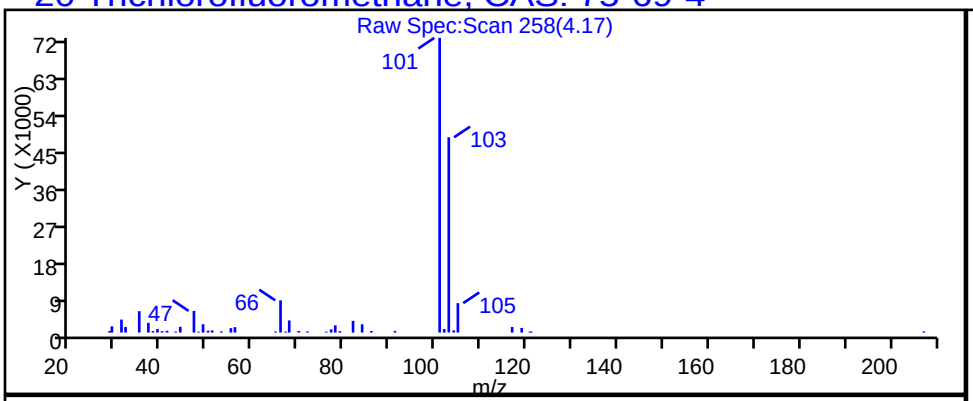


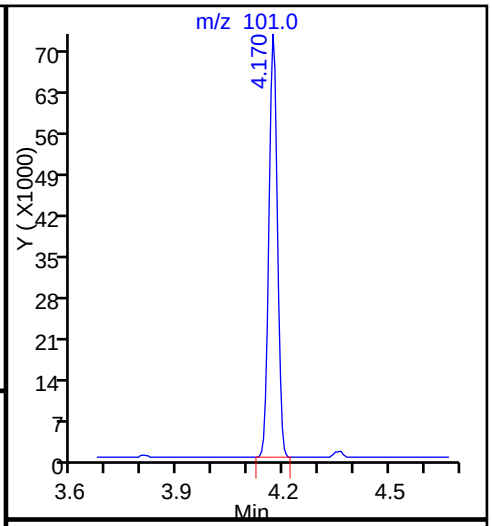


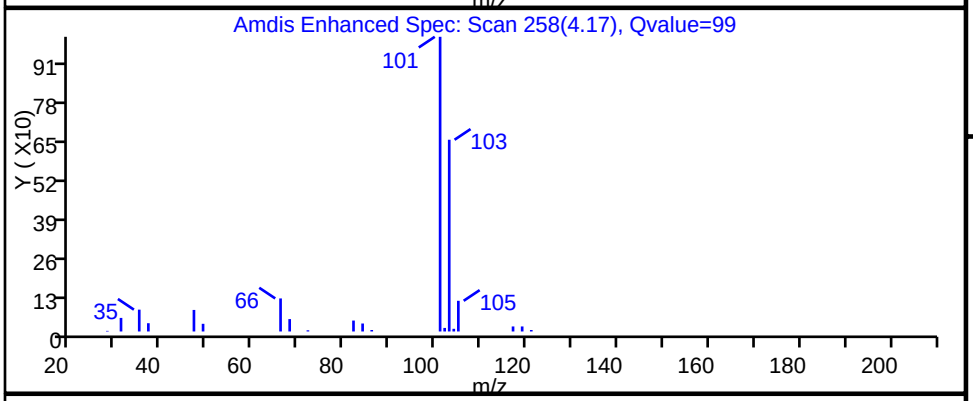
TestAmerica Knoxville

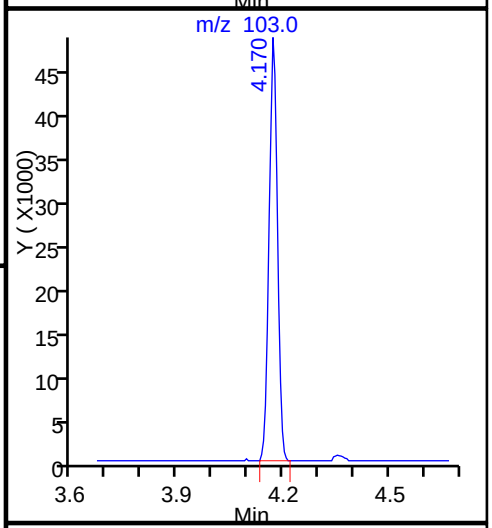
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D				
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

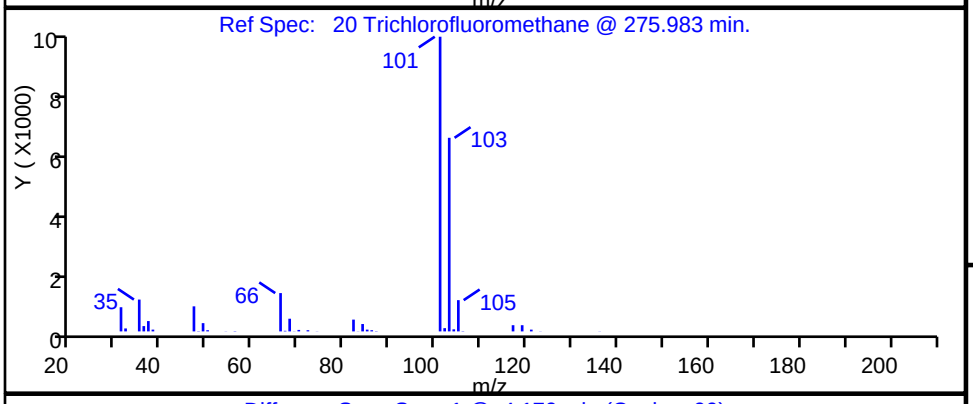
20 Trichlorofluoromethane, CAS: 75-69-4

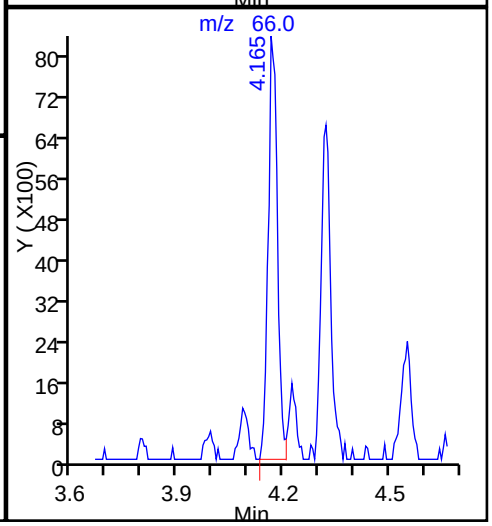


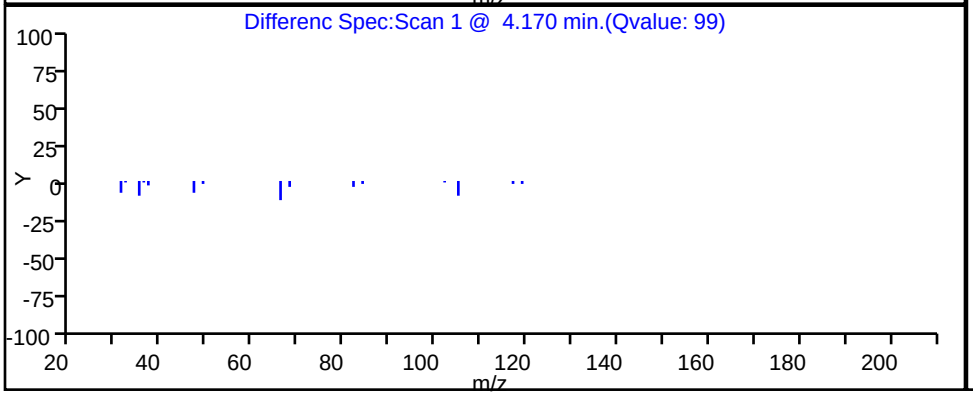












Manual Integration/User Assign Peak Report

TestAmerica Knoxville

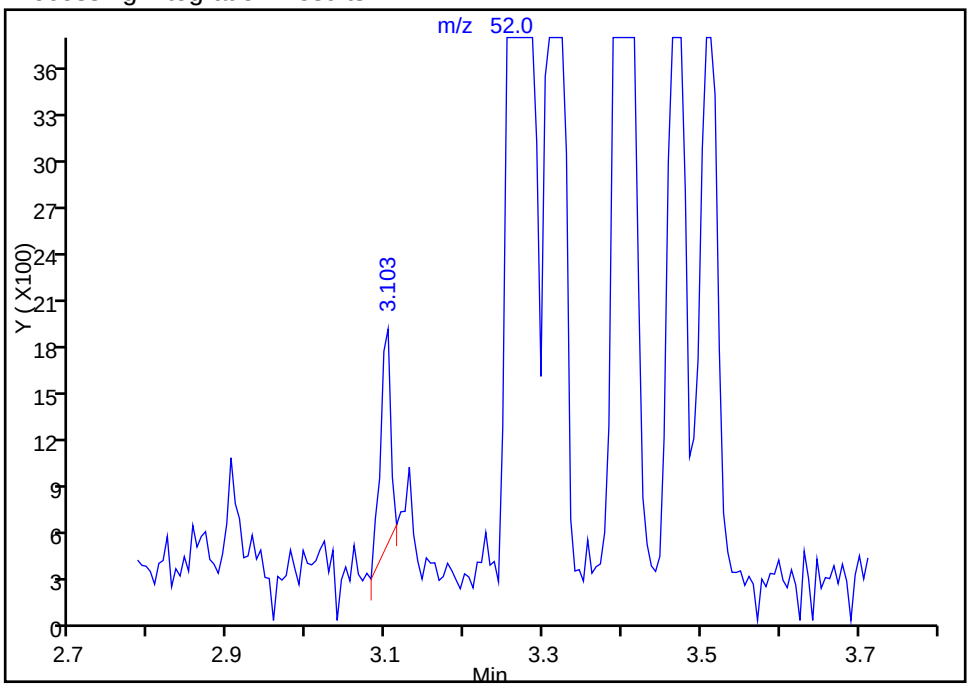
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P102.D				
Injection Date:	01-Sep-2016 12:54:30	Instrument ID:	ME		
Lims ID:	140-5720-A-1	Lab Sample ID:	140-5720-1		
Client ID:	SG-215				
Operator ID:	007126	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	500.000 mL	Dil. Factor:	1.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

Signal: 1

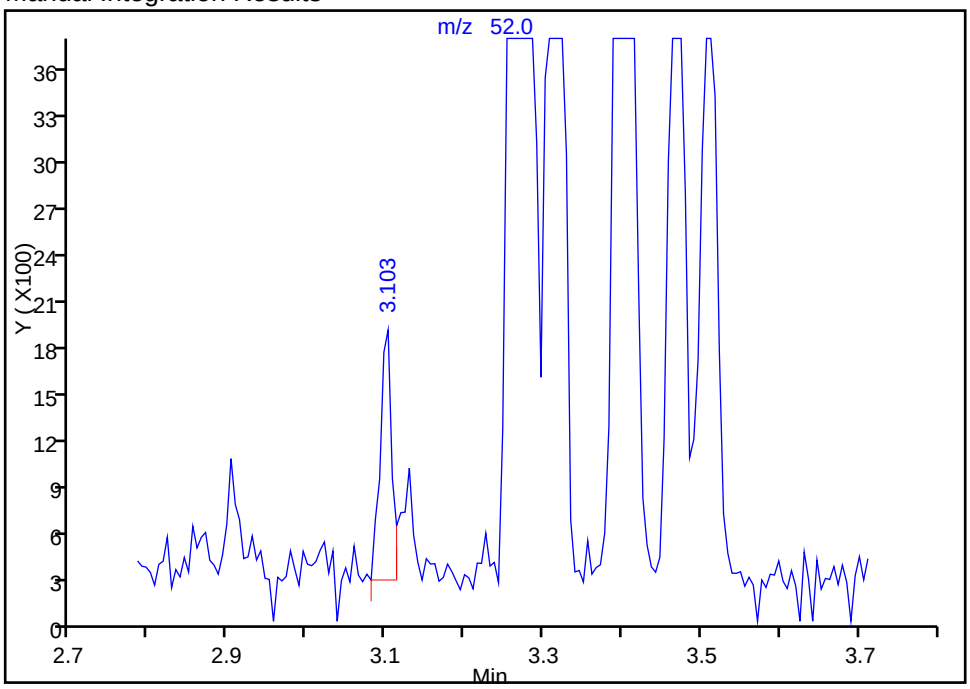
Processing Integration Results

RT: 3.10
Area: 1262
Amount: 0.083357
Amount Units: ppb v/v



Manual Integration Results

RT: 3.10
Area: 1658
Amount: 0.109513
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 01-Sep-2016 15:59:08

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 | Lab Sample ID: 140-5720-2

Matrix: Air | Lab File ID: EI01P103.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) | Date Analyzed: 09/01/2016 13:38

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.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.40	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.40	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.40	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.40	
75-34-3	1,1-Dichloroethane	98.96	ND		0.40	
75-35-4	1,1-Dichloroethene	96.94	ND		0.40	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.40	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.40	
106-93-4	1,2-Dibromoethane	187.87	ND		0.40	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.40	
107-06-2	1,2-Dichloroethane	98.96	ND		0.40	
78-87-5	1,2-Dichloropropane	112.99	ND		0.40	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.40	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.54		0.40	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.40	
106-46-7	1,4-Dichlorobenzene	147.00	23		0.40	
123-91-1	1,4-Dioxane	88.11	ND		1.0	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.0	
78-93-3	2-Butanone	72.11	12		1.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	8.9		1.0	
71-43-2	Benzene	78.11	4.0		0.40	
100-44-7	Benzyl chloride	126.58	ND		0.80	
75-27-4	Bromodichloromethane	163.83	0.72		0.40	
75-25-2	Bromoform	252.75	ND		0.40	
74-83-9	Bromomethane	94.94	ND		0.40	
56-23-5	Carbon tetrachloride	153.81	ND		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.40	
75-00-3	Chloroethane	64.52	ND		0.40	
67-66-3	Chloroform	119.38	3.5		0.40	
74-87-3	Chloromethane	50.49	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.40	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.40	
110-82-7	Cyclohexane	84.16	ND		1.0	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 Lab Sample ID: 140-5720-2

Matrix: Air Lab File ID: EI01P103.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) Date Analyzed: 09/01/2016 13:38

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.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.40	
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.40	
64-17-5	Ethanol	46.07	ND		10	
100-41-4	Ethylbenzene	106.17	1.4		0.40	
87-68-3	Hexachlorobutadiene	260.76	ND		0.40	
110-54-3	Hexane	86.17	6.2		1.0	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.80	
75-09-2	Methylene Chloride	84.93	ND		1.0	
179601-23-1	m-Xylene & p-Xylene	106.17	4.7		0.40	
95-47-6	o-Xylene	106.17	2.2		0.40	
100-42-5	Styrene	104.15	ND		0.40	
75-65-0	t-Butyl alcohol	74.12	1.9		1.6	
127-18-4	Tetrachloroethene	165.83	0.65		0.40	
108-88-3	Toluene	92.14	6.1		0.60	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.40	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.40	
79-01-6	Trichloroethene	131.39	ND		0.20	
75-69-4	Trichlorofluoromethane	137.37	2.6		0.40	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 Lab Sample ID: 140-5720-2

Matrix: Air Lab File ID: EI01P103.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) Date Analyzed: 09/01/2016 13:38

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.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.2	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7	
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.2	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.1	
75-34-3	1,1-Dichloroethane	98.96	ND		1.6	
75-35-4	1,1-Dichloroethene	96.94	ND		1.6	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0	
95-63-6	1,2,4-Trimethylbenzene	120.20	11		2.0	
106-93-4	1,2-Dibromoethane	187.87	ND		3.1	
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4	
107-06-2	1,2-Dichloroethane	98.96	ND		1.6	
78-87-5	1,2-Dichloropropane	112.99	ND		1.8	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.8	
108-67-8	1,3,5-Trimethylbenzene	120.20	2.7		2.0	
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4	
106-46-7	1,4-Dichlorobenzene	147.00	140		2.4	
123-91-1	1,4-Dioxane	88.11	ND		3.6	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.7	
78-93-3	2-Butanone	72.11	36		4.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	37		4.1	
71-43-2	Benzene	78.11	13		1.3	
100-44-7	Benzyl chloride	126.58	ND		4.1	
75-27-4	Bromodichloromethane	163.83	4.8		2.7	
75-25-2	Bromoform	252.75	ND		4.1	
74-83-9	Bromomethane	94.94	ND		1.6	
56-23-5	Carbon tetrachloride	153.81	ND		1.3	
108-90-7	Chlorobenzene	112.56	ND		1.8	
75-00-3	Chloroethane	64.52	ND		1.1	
67-66-3	Chloroform	119.38	17		2.0	
74-87-3	Chloromethane	50.49	ND		2.1	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8	
110-82-7	Cyclohexane	84.16	ND		3.4	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 Lab Sample ID: 140-5720-2

Matrix: Air Lab File ID: EI01P103.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) Date Analyzed: 09/01/2016 13:38

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.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		3.4	
75-71-8	Dichlorodifluoromethane	120.91	2.2		2.0	
64-17-5	Ethanol	46.07	ND		19	
100-41-4	Ethylbenzene	106.17	5.9		1.7	
87-68-3	Hexachlorobutadiene	260.76	ND		4.3	
110-54-3	Hexane	86.17	22		3.5	
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.9	
75-09-2	Methylene Chloride	84.93	ND		3.5	
179601-23-1	m-Xylene & p-Xylene	106.17	20		1.7	
95-47-6	o-Xylene	106.17	9.5		1.7	
100-42-5	Styrene	104.15	ND		1.7	
75-65-0	t-Butyl alcohol	74.12	5.7		4.9	
127-18-4	Tetrachloroethene	165.83	4.4		2.7	
108-88-3	Toluene	92.14	23		2.3	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8	
79-01-6	Trichloroethene	131.39	ND		1.1	
75-69-4	Trichlorofluoromethane	137.37	15		2.2	
75-01-4	Vinyl chloride	62.50	ND		0.51	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D
Lims ID: 140-5720-A-2
Client ID: SG-214
Sample Type: Client
Inject. Date: 01-Sep-2016 13:38:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003369-006
Misc. Info.: 140-5720-a-2
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 16:03:55 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:04:20

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	76	242018	4.00	
*	2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1083227	4.00	
*	3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1087159	4.00	
$	4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	943709	4.24	
	8 Dichlorodifluoromethane	85	2.947	2.946	0.000	98	22783	0.0895	
	9 Chloromethane	52	3.097	3.097	0.000	97	1154	0.0706	
	16 Chloroethane	64	3.707	3.696	0.011	18	793	0.0228	
	17 Ethanol	31	3.777	3.777	0.000	97	14257	0.8308	
	20 Trichlorofluoromethane	101	4.171	4.165	0.006	99	129852	0.5271	
	28 2-Methyl-2-propanol	59	4.888	4.877	0.011	93	37400	0.3732	
	30 1,1,2-Trichloro-1,2,2-trif	101	4.942	4.942	0.000	92	3013	0.0189	
	31 Methylene Chloride	84	5.109	5.103	0.006	80	9150	0.1205	
	37 1,1-Dichloroethane	63	6.274	6.279	-0.005	69	3051	0.0227	
	39 2-Butanone (MEK)	72	6.829	6.834	-0.005	95	87238	2.47	
	40 Hexane	56	6.845	6.840	0.005	75	58203	1.23	
	44 Chloroform	83	7.584	7.584	0.000	95	141286	0.7003	
	50 Cyclohexane	69	9.196	9.196	0.000	40	6244	0.1701	
	51 Benzene	78	9.202	9.202	0.000	95	175569	0.7908	
	56 Isooctane	57	10.043	10.037	0.006	78	16564	0.0642	
	61 Dichlorobromomethane	83	10.841	10.835	0.006	95	27044	0.1436	
	65 4-Methyl-2-pentanone (MIBK	43	11.882	11.887	-0.005	93	155747	1.79	
	68 Toluene	91	12.777	12.777	0.000	94	316981	1.22	
	74 Chlorodibromomethane	129	13.580	13.586	-0.006	94	7396	0.0439	
	76 Tetrachloroethene	129	13.963	13.963	0.000	93	13096	0.1291	
	79 Ethylbenzene	91	15.166	15.166	0.000	98	95492	0.2729	
	81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	256078	0.9385	
	84 Styrene	104	15.802	15.802	0.000	96	11743	0.0668	
	85 o-Xylene	91	15.861	15.861	0.000	97	124666	0.4353	
	92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	91	18077	0.1089	
	96 1,2,4-Trimethylbenzene	105	17.727	17.732	-0.005	98	131911	0.4292	
	100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	90	843075	4.65	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

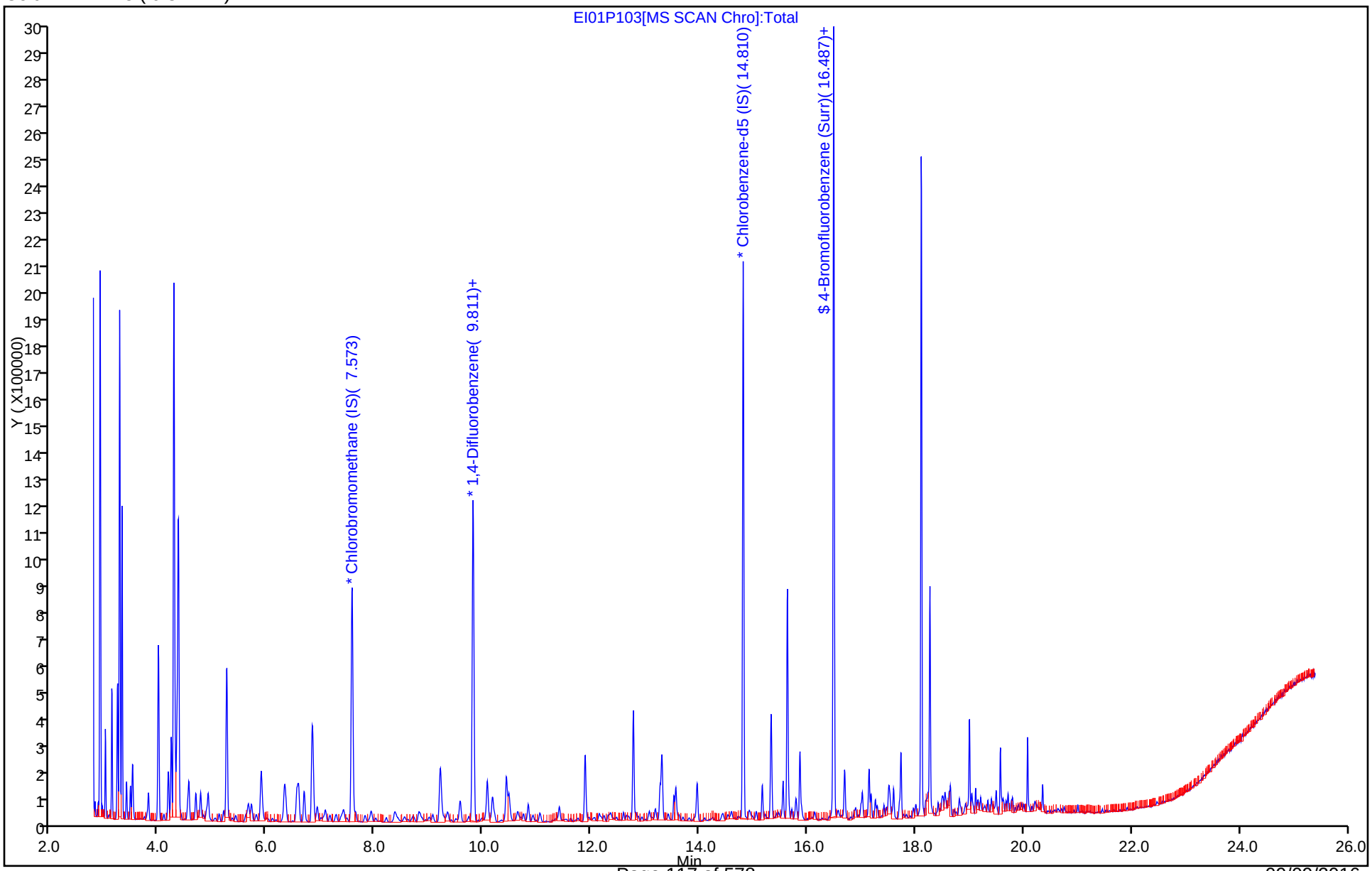
Report Date: 01-Sep-2016 16:04:21 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D

Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2	Worklist Smp#:	6
Client ID:	SG-214				
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
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D				
Lims ID:	140-5720-A-2				
Client ID:	SG-214				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 13:38:30	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003369-006				
Misc. Info.:	140-5720-a-2				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 16:03:55	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

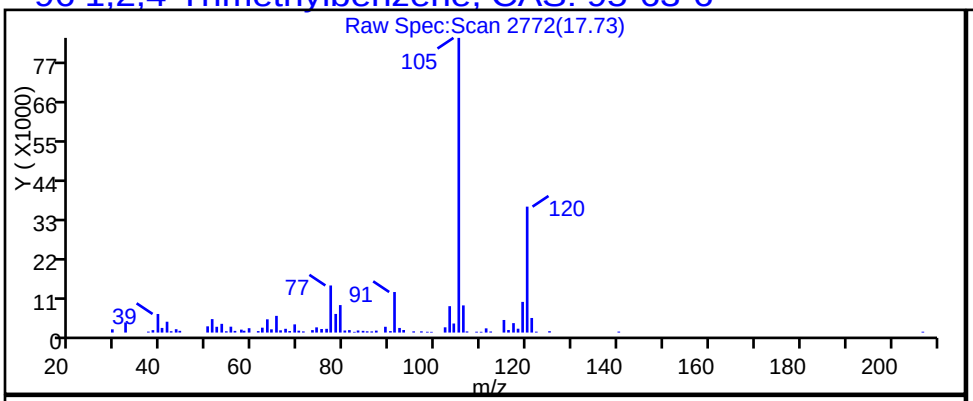
First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:04:20

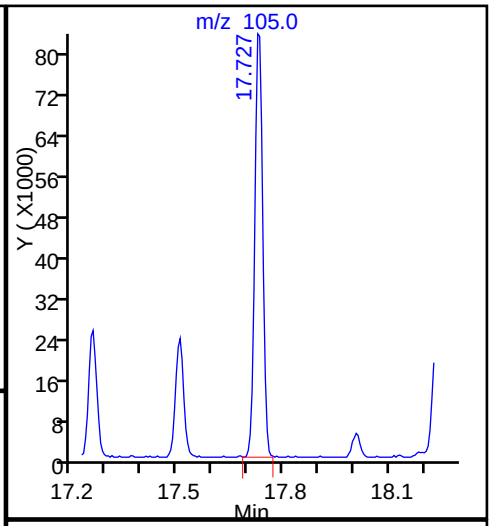
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.24	106.05

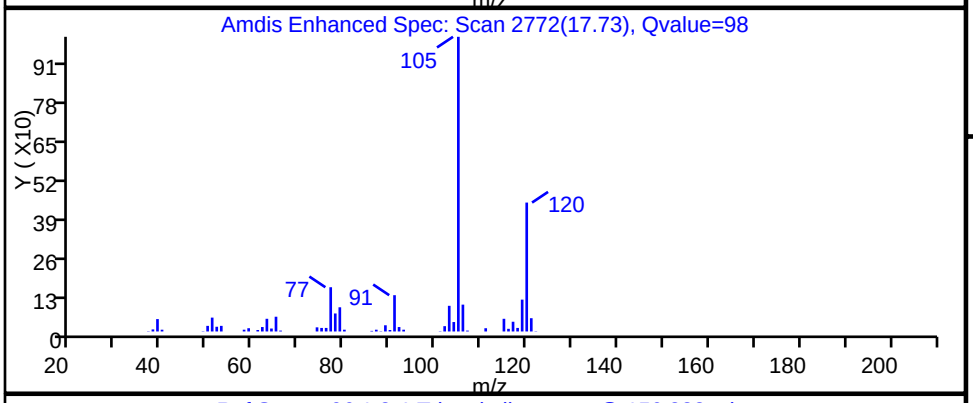
TestAmerica Knoxville

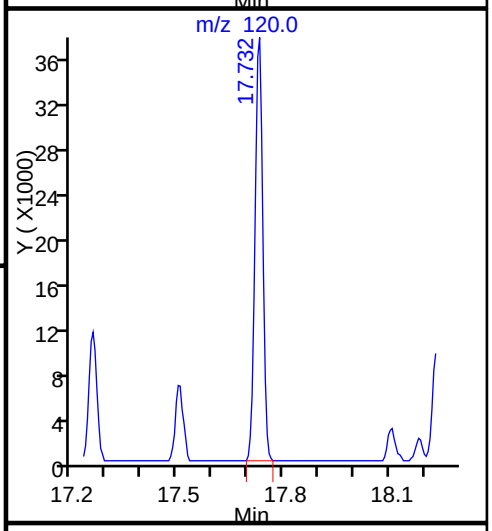
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D		
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2
Client ID:	SG-214		
Operator ID:	007126	ALS Bottle#:	3 Worklist Smp#: 6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

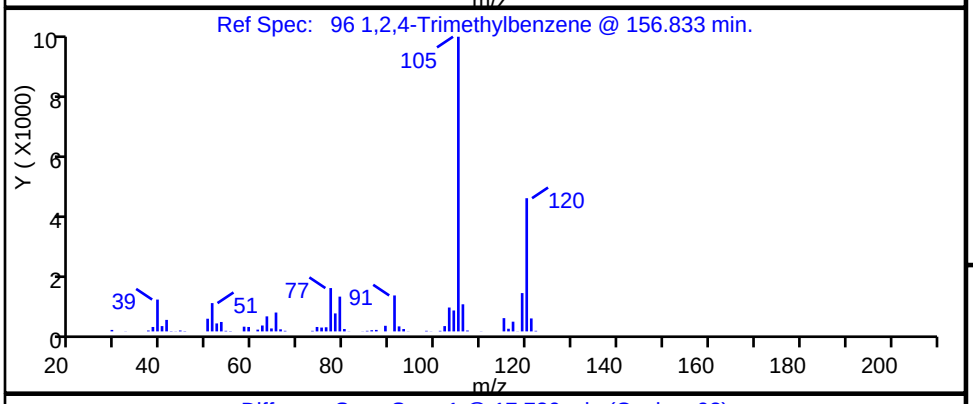
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

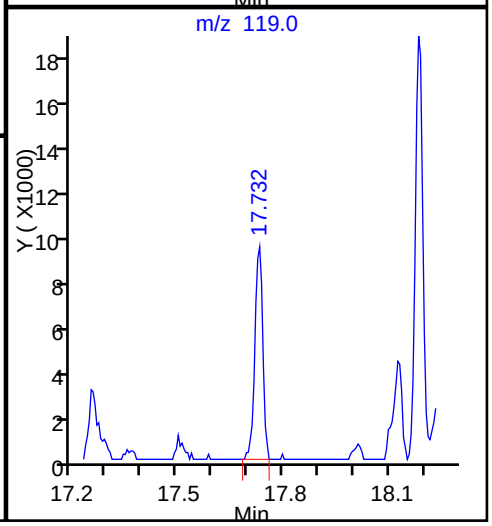


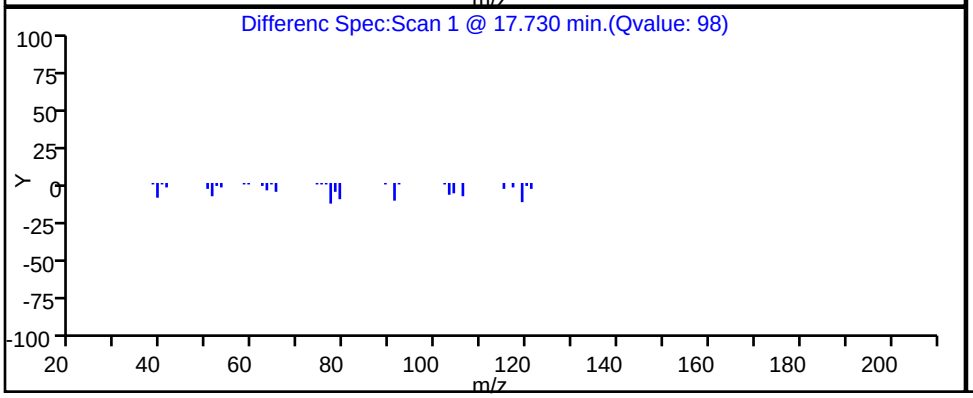






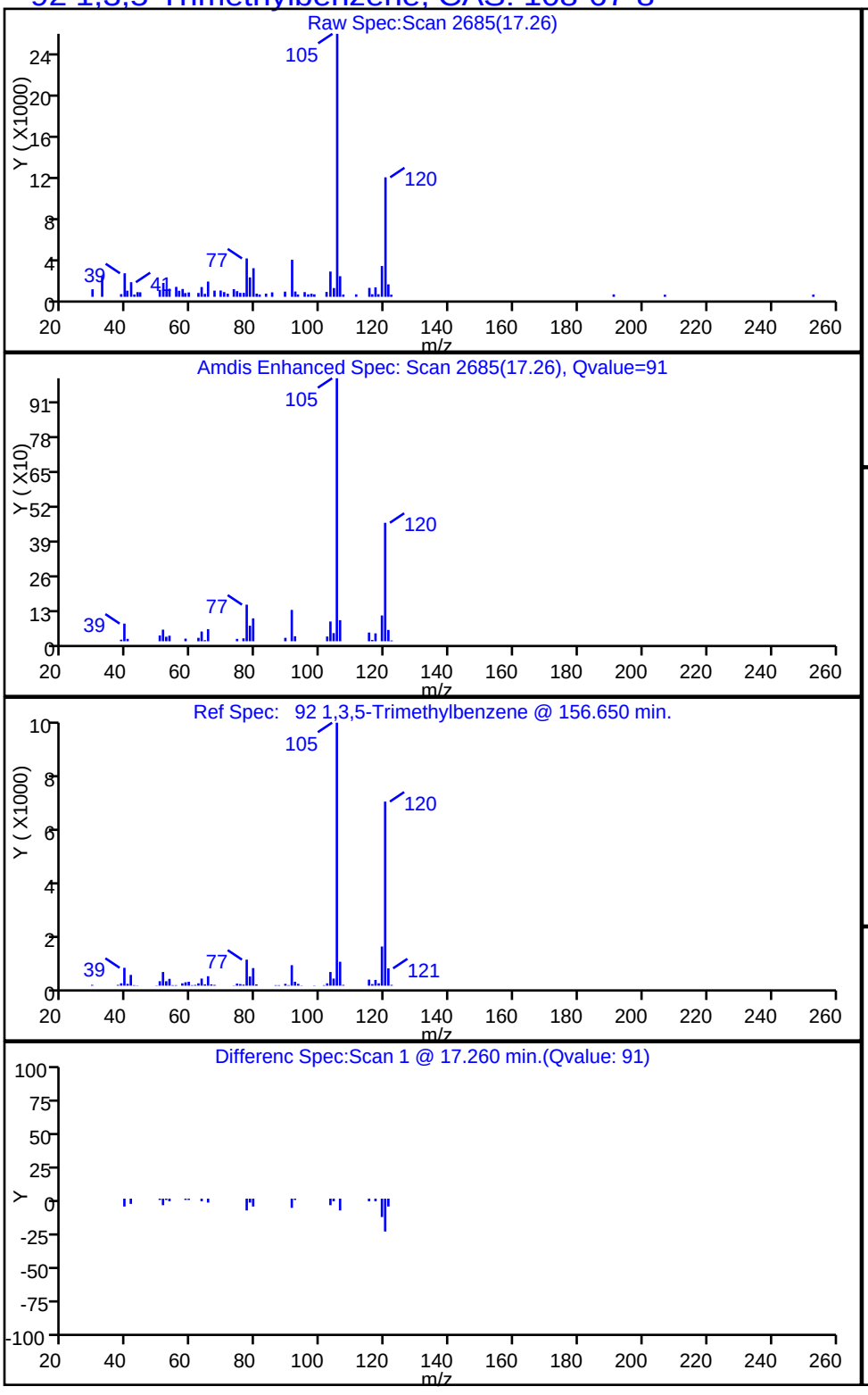


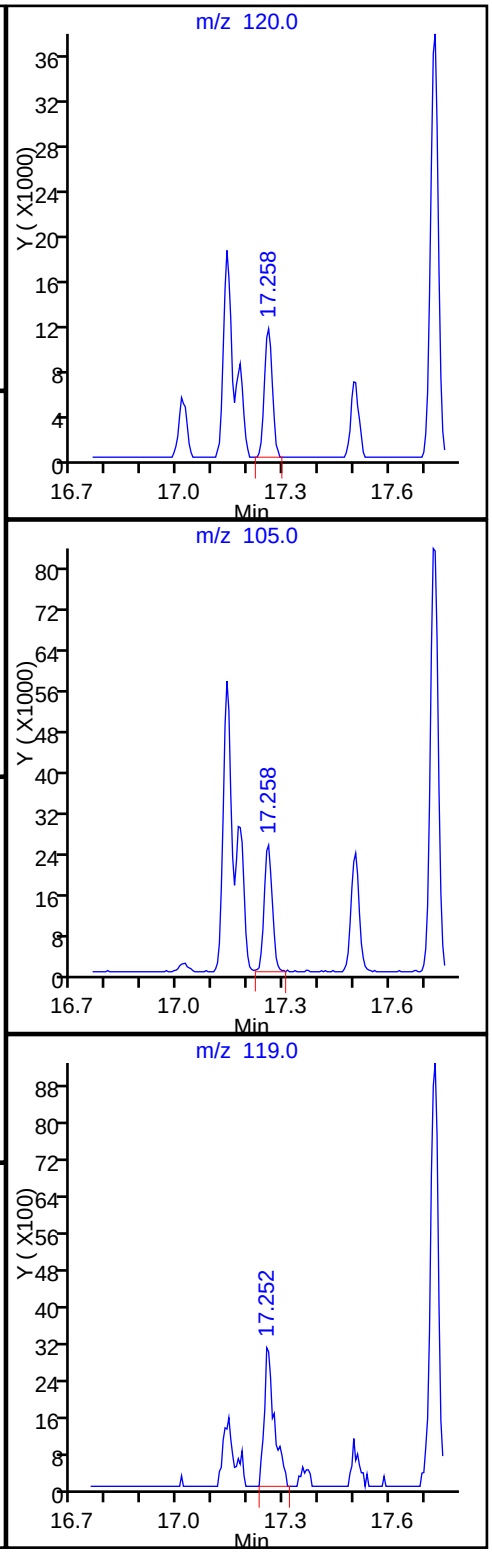




Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D
Injection Date: 01-Sep-2016 13:38:30 Instrument ID: ME
Lims ID: 140-5720-A-2 Lab Sample ID: 140-5720-2
Client ID: SG-214
Operator ID: 007126 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

92 1,3,5-Trimethylbenzene, CAS: 108-67-8

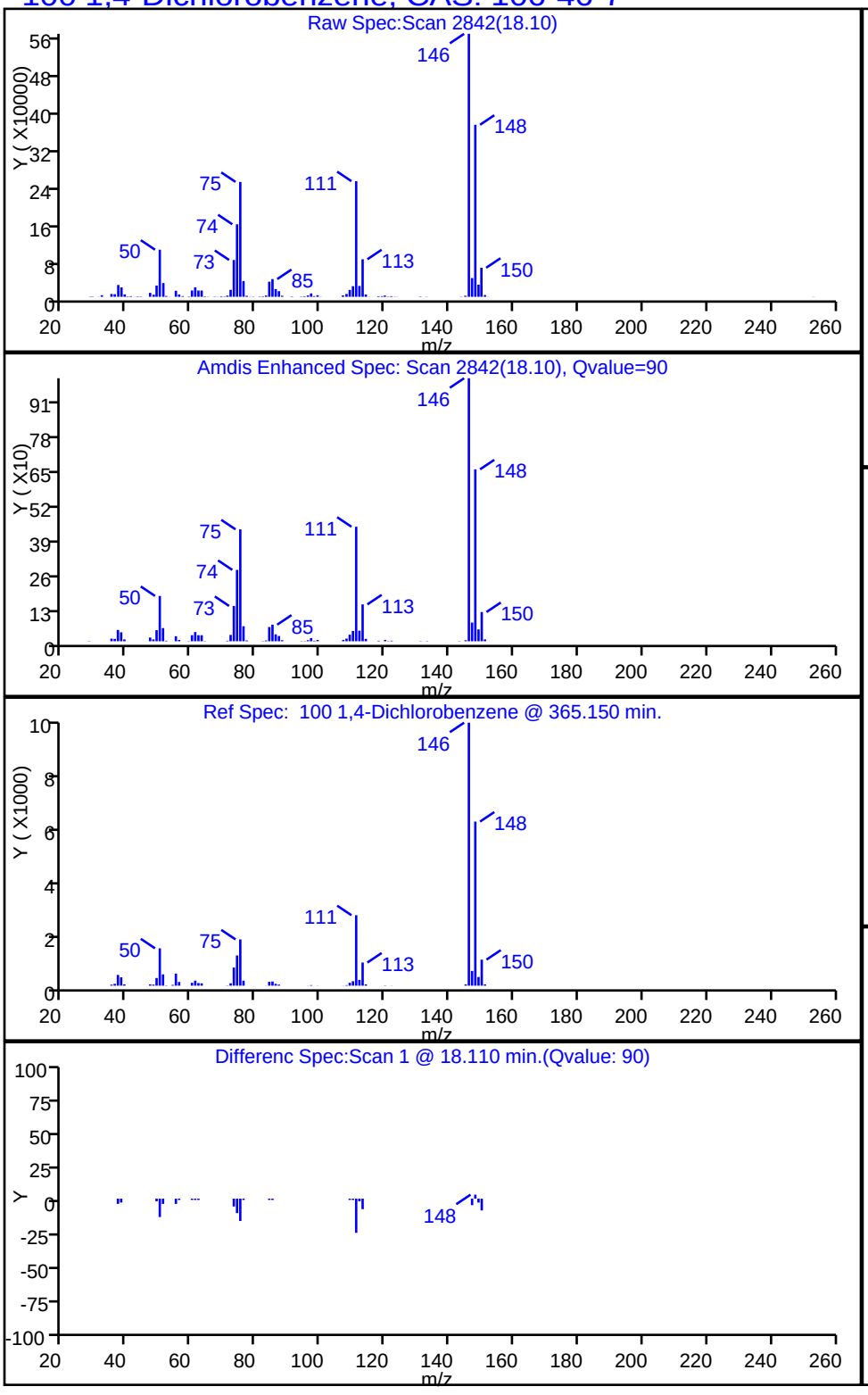


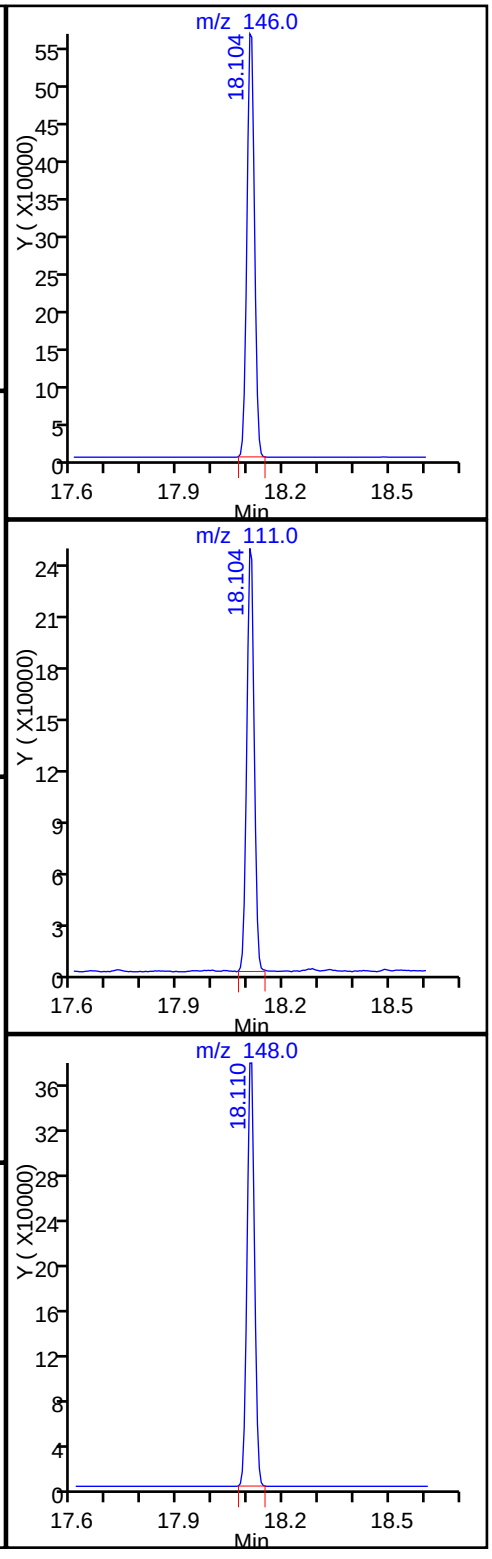


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D		
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2
Client ID:	SG-214		
Operator ID:	007126	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

100 1,4-Dichlorobenzene, CAS: 106-46-7

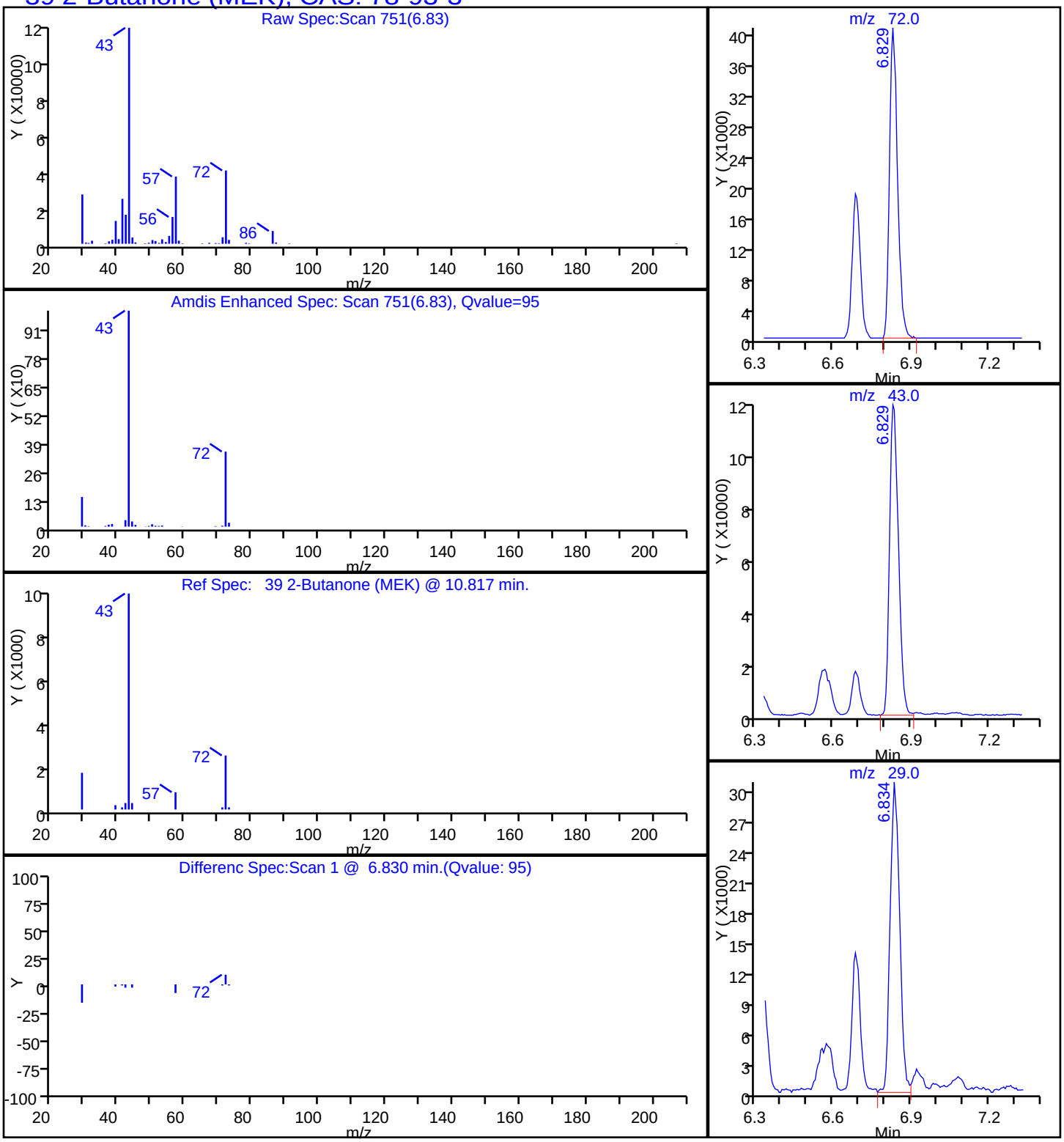




TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D		
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2
Client ID:	SG-214		
Operator ID:	007126	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

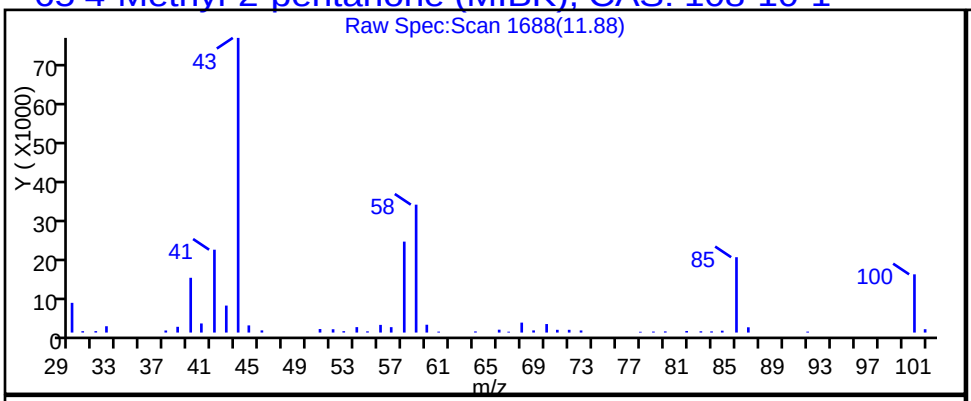
39 2-Butanone (MEK), CAS: 78-93-3

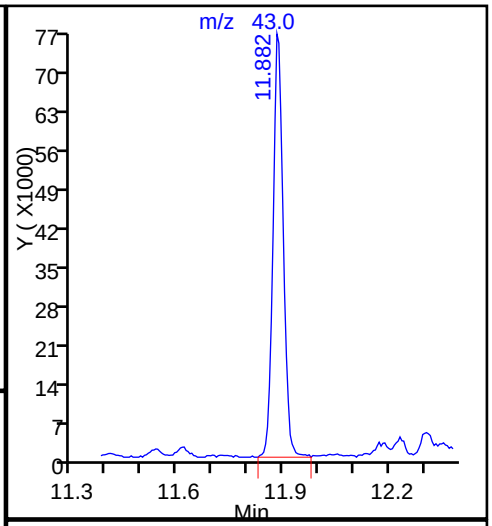


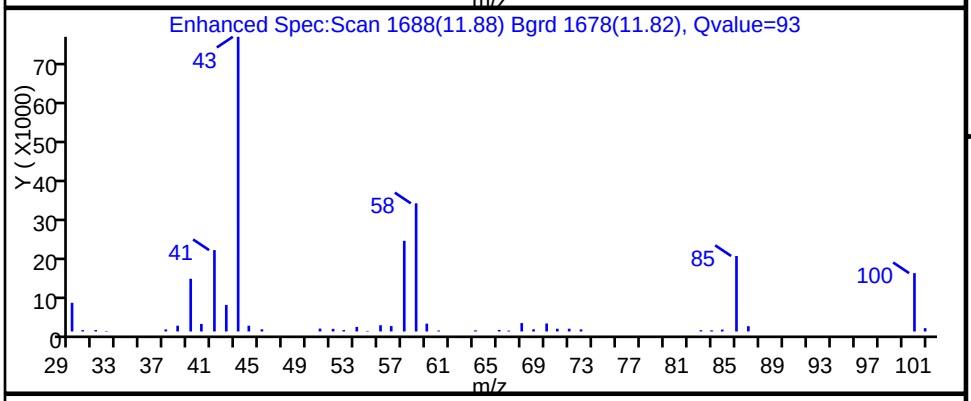
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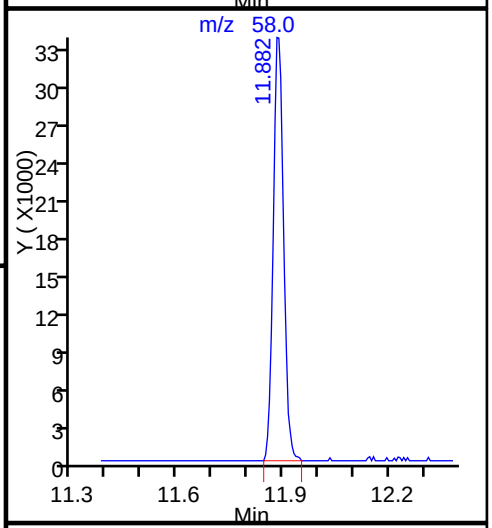
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Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

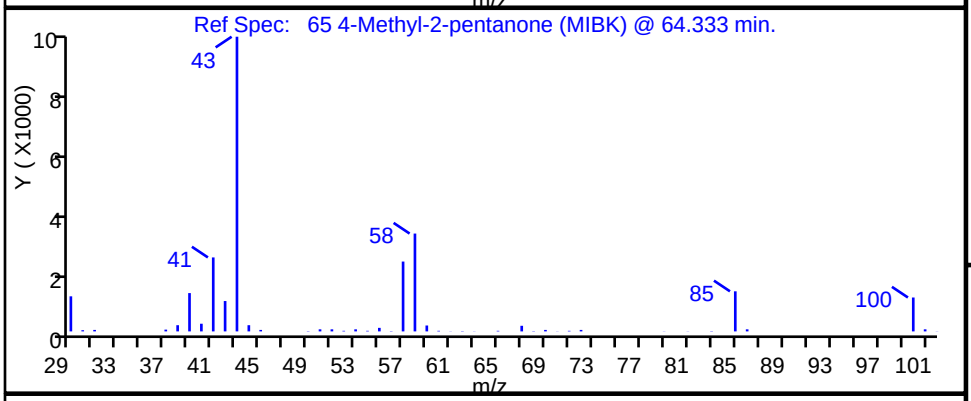
65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

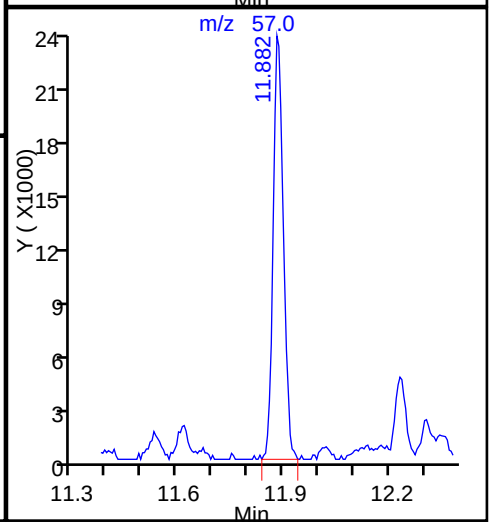


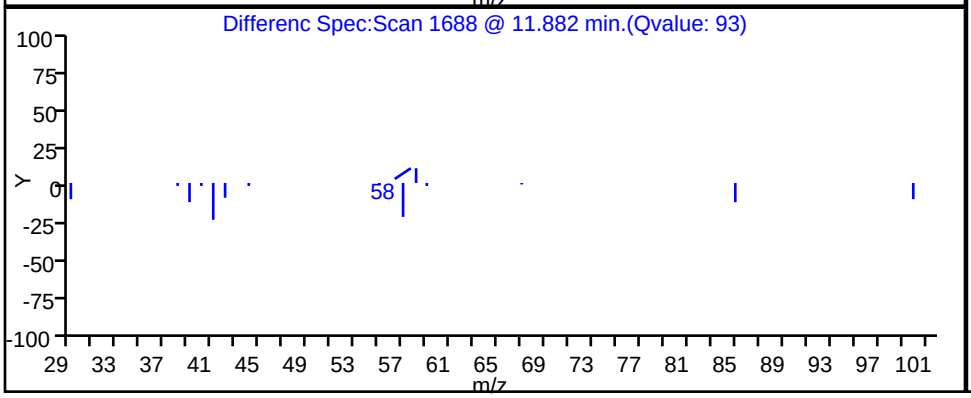








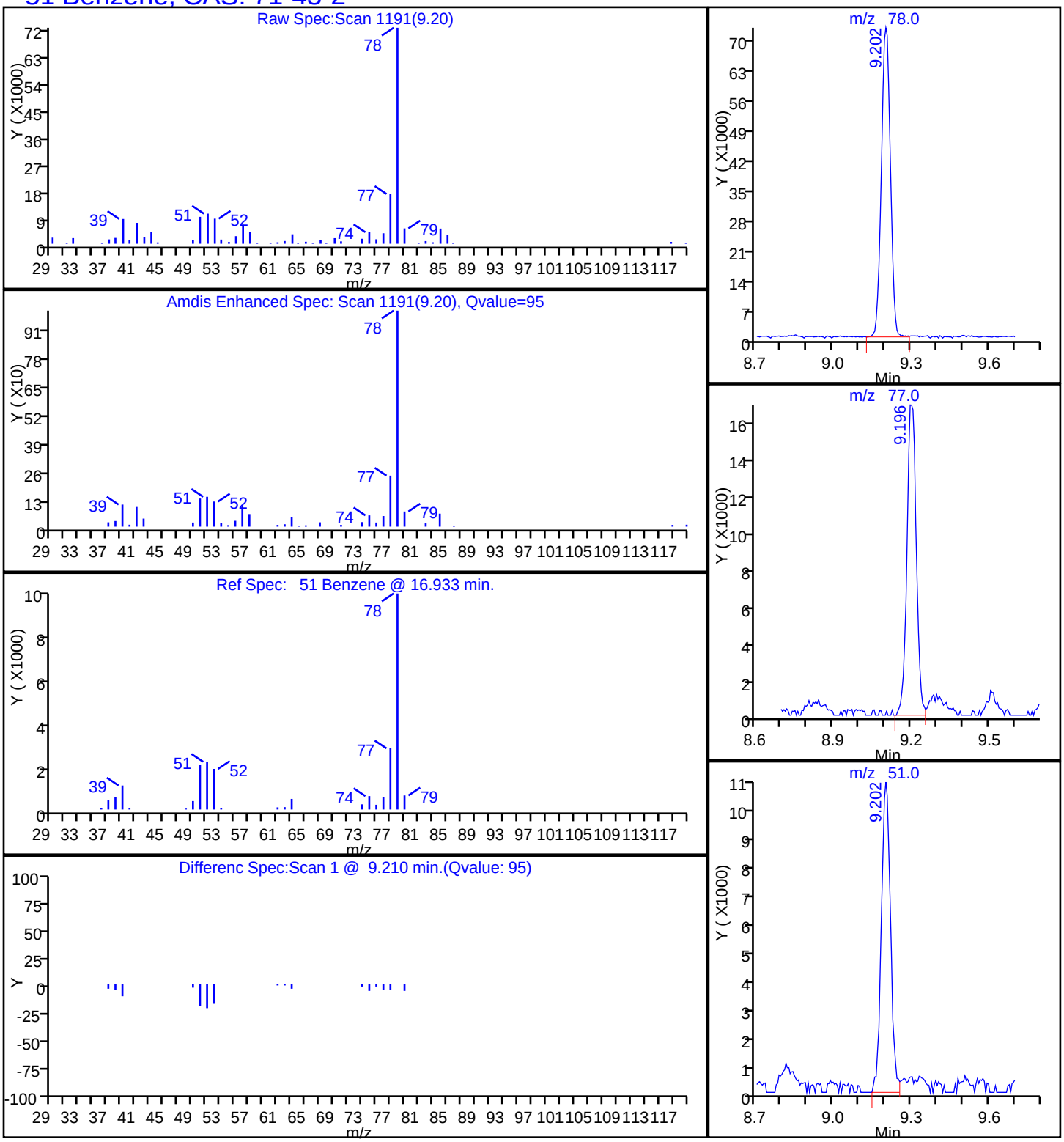




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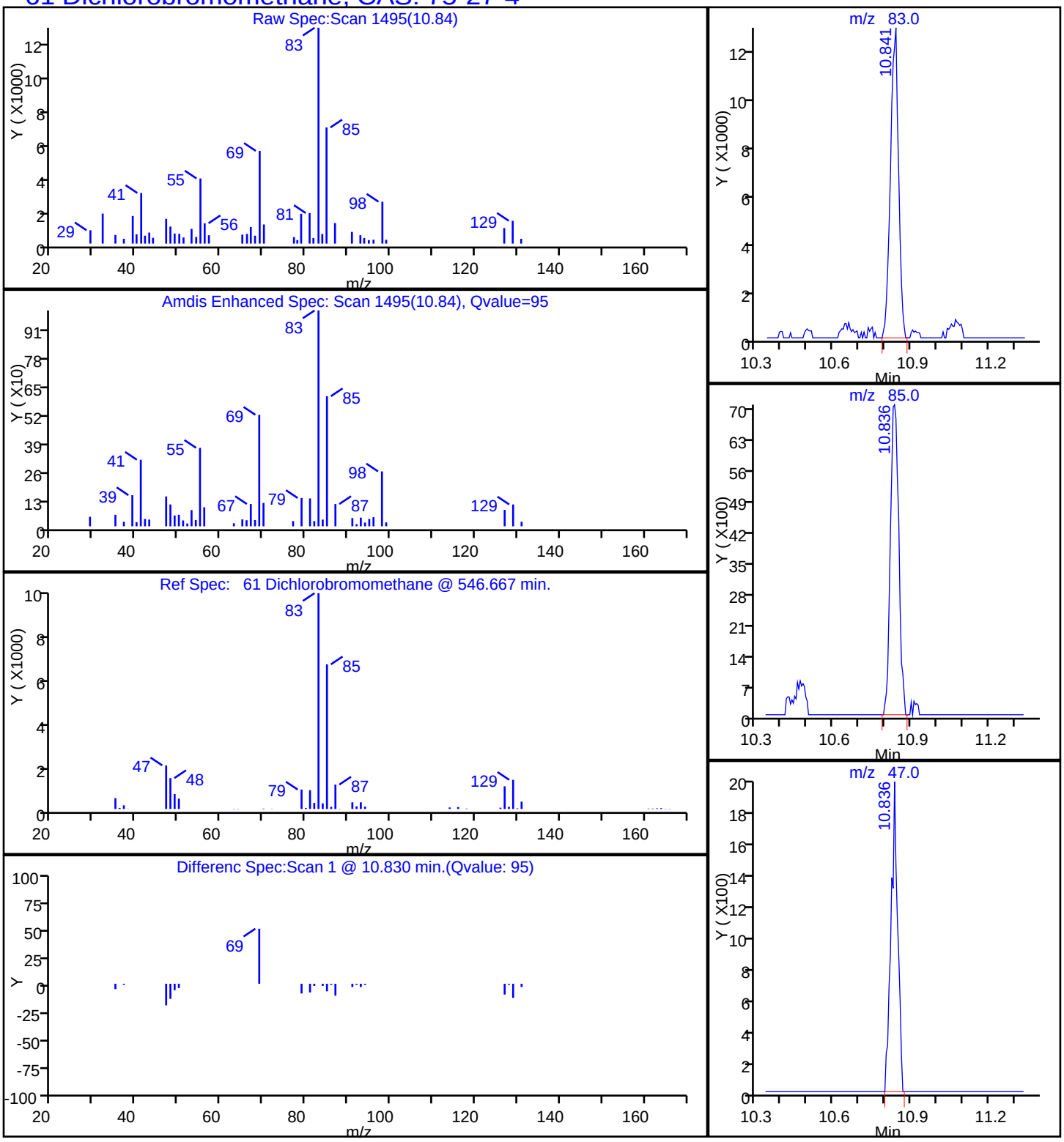
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D				
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

51 Benzene, CAS: 71-43-2



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D
Injection Date: 01-Sep-2016 13:38:30 Instrument ID: ME
Lims ID: 140-5720-A-2 Lab Sample ID: 140-5720-2
Client ID: SG-214
Operator ID: 007126 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

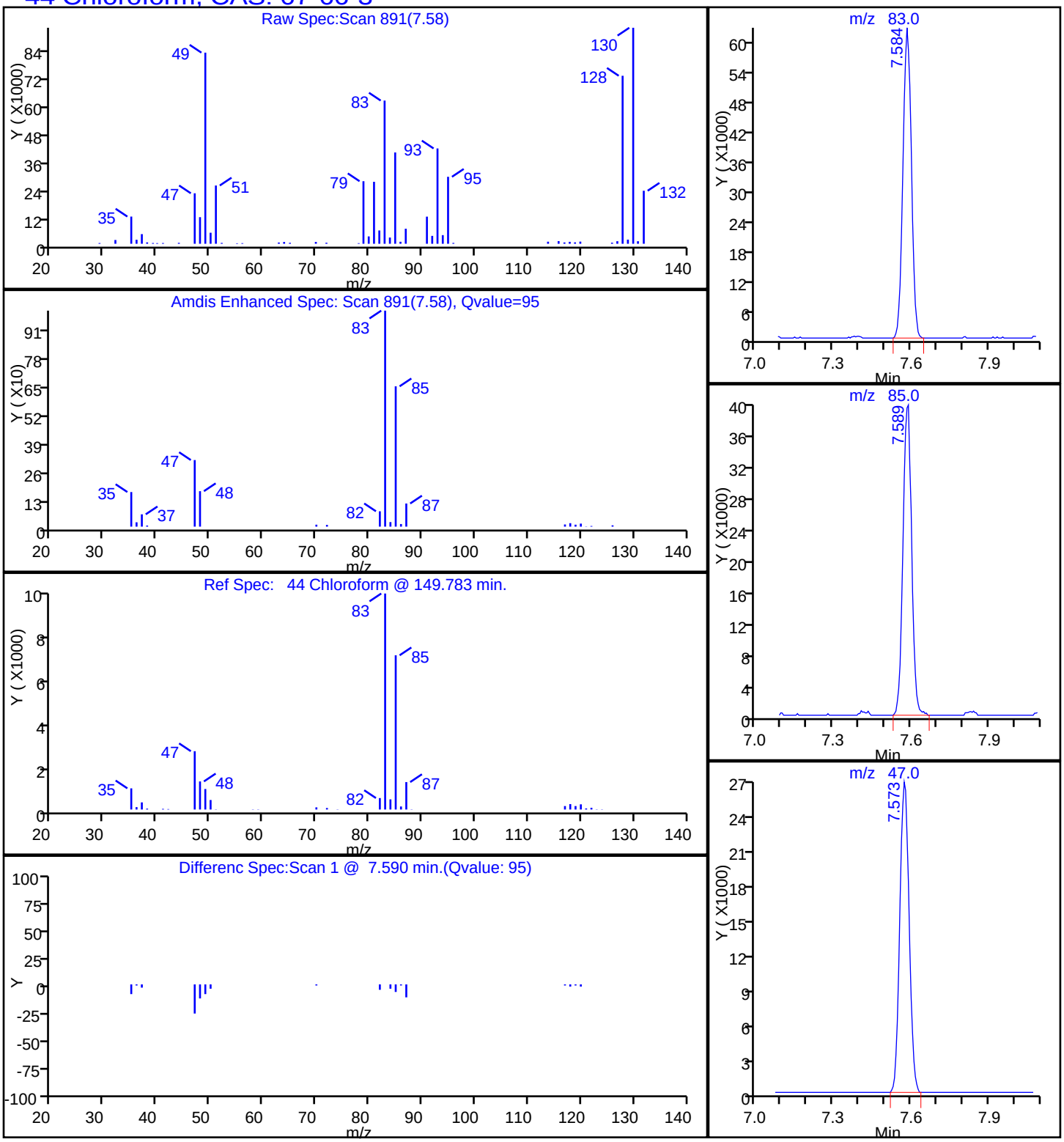
61 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D				
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	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		

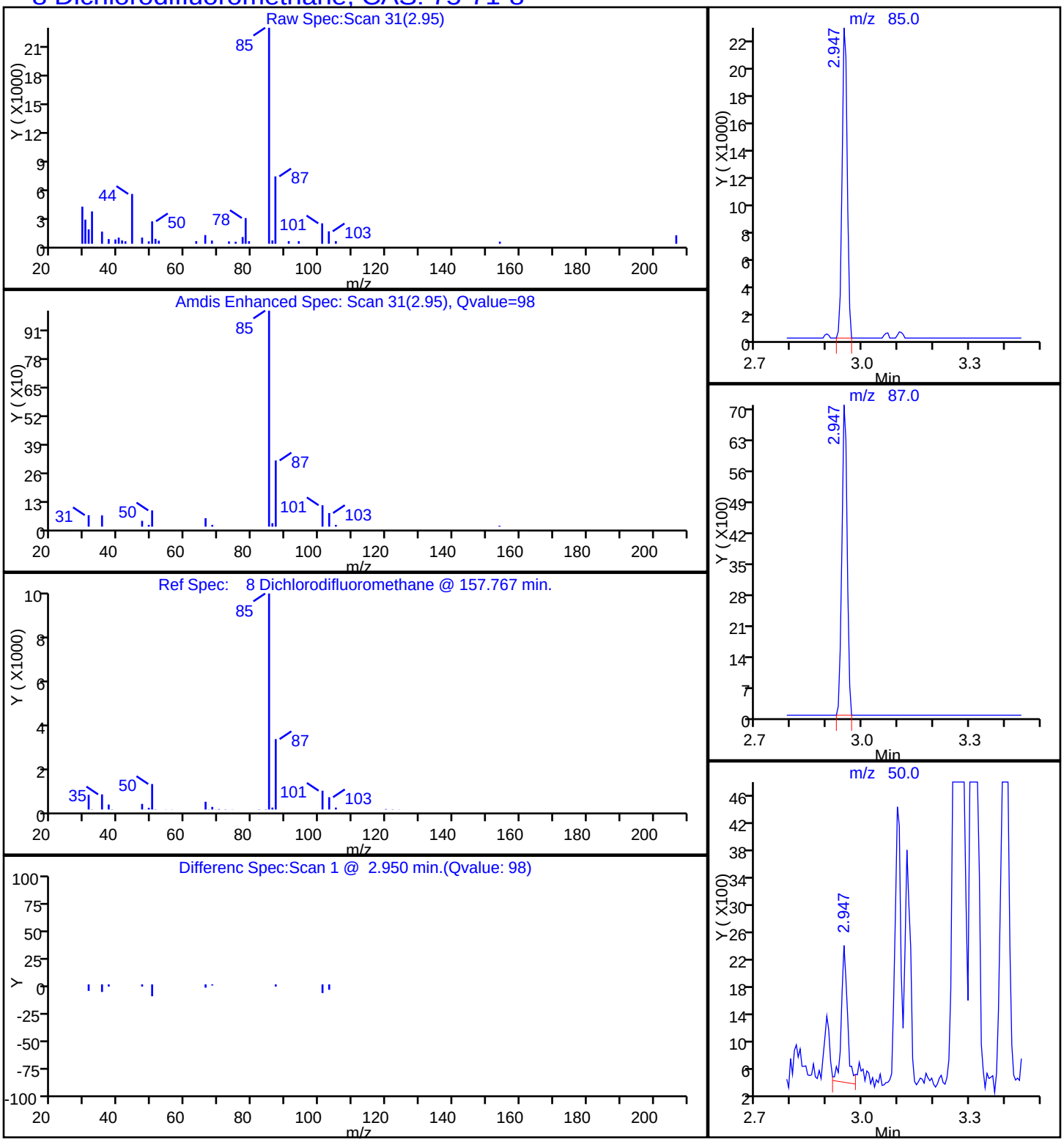
44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D				
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	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		

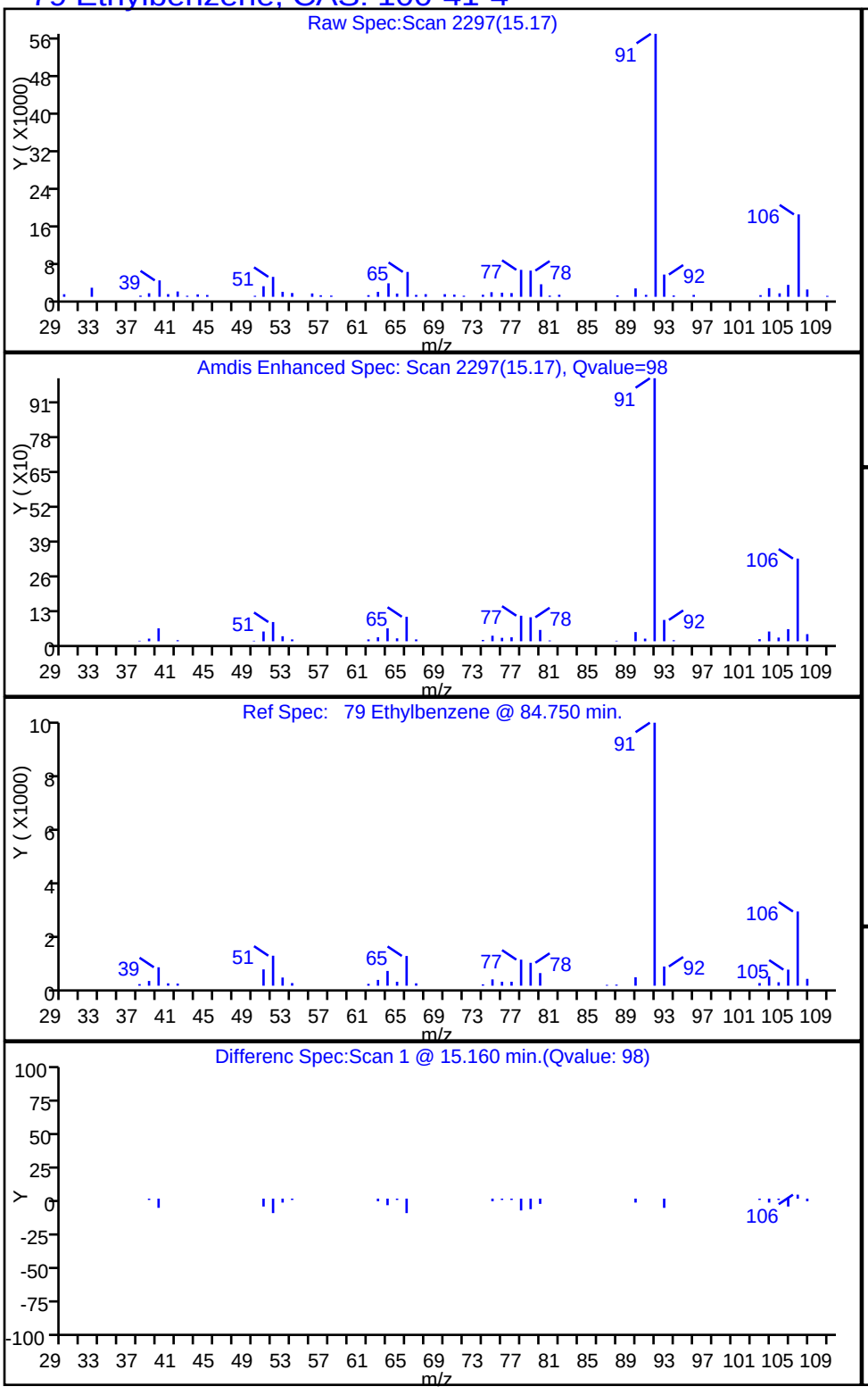
8 Dichlorodifluoromethane, CAS: 75-71-8

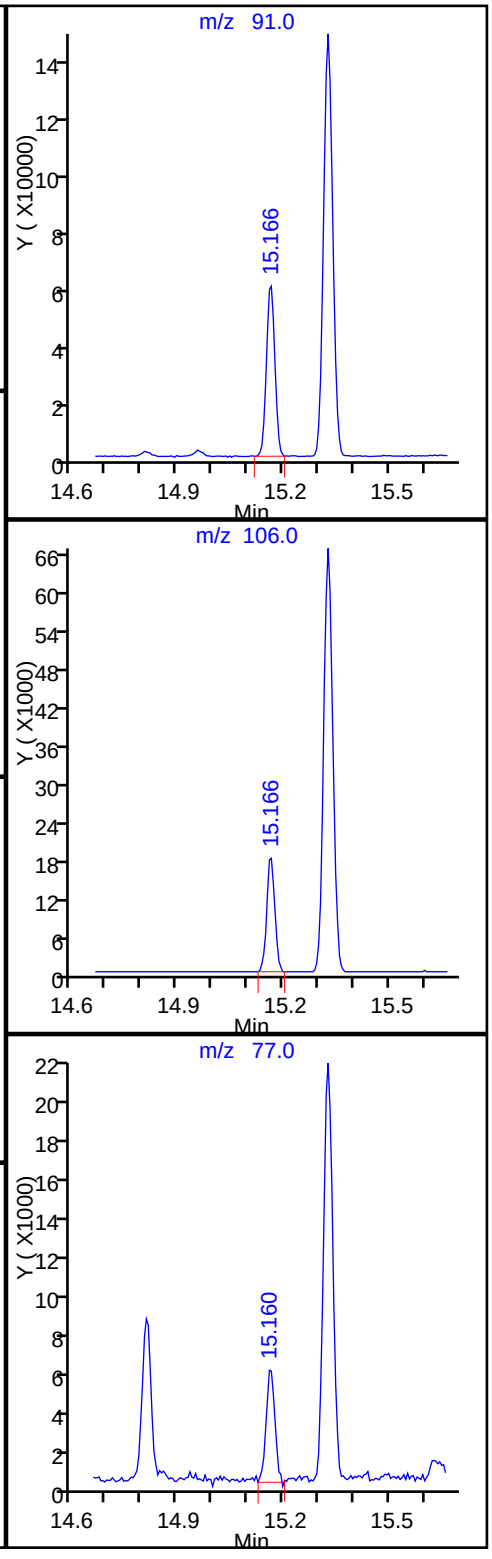


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D				
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	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		

79 Ethylbenzene, CAS: 100-41-4

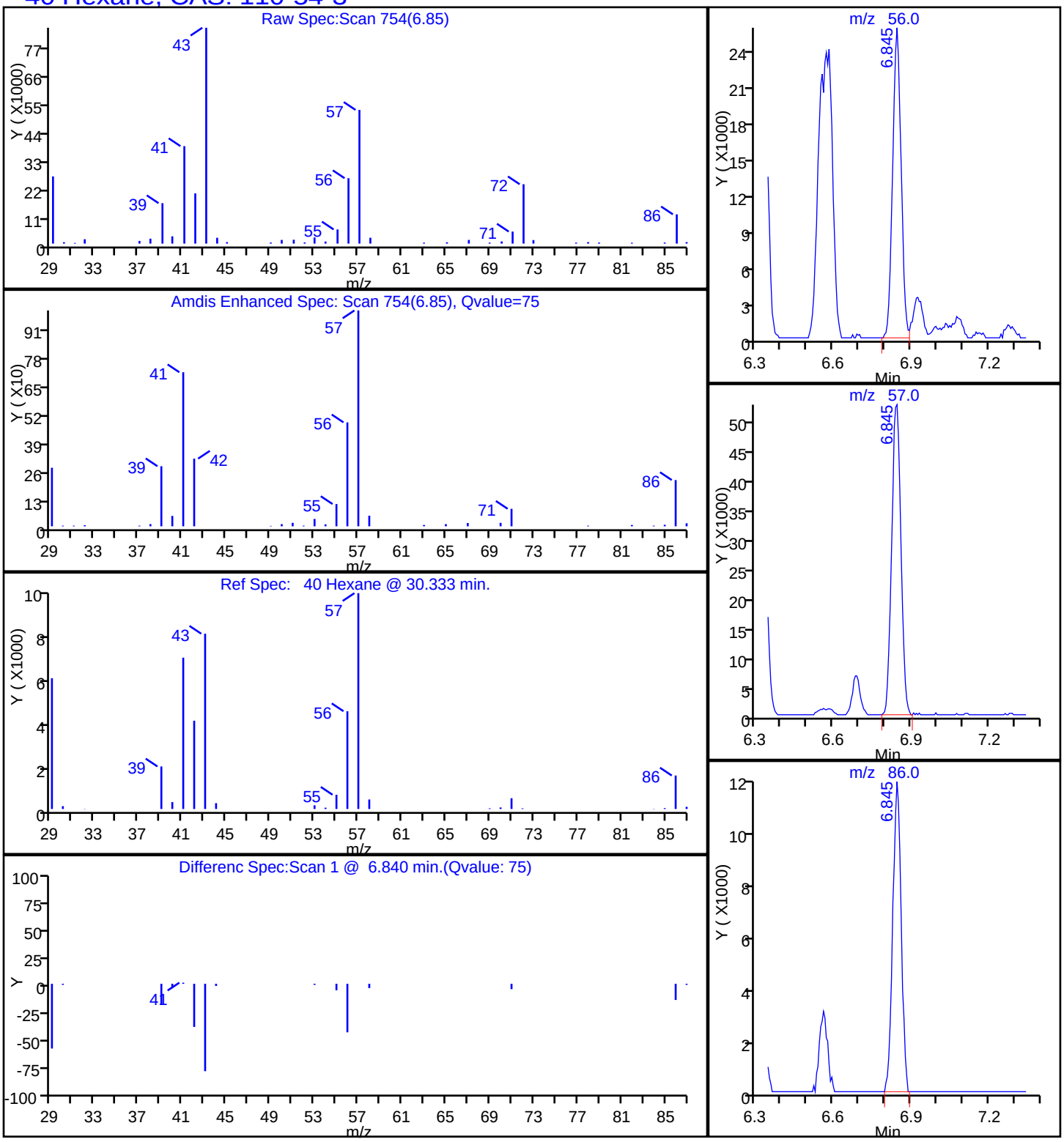




TestAmerica Knoxville

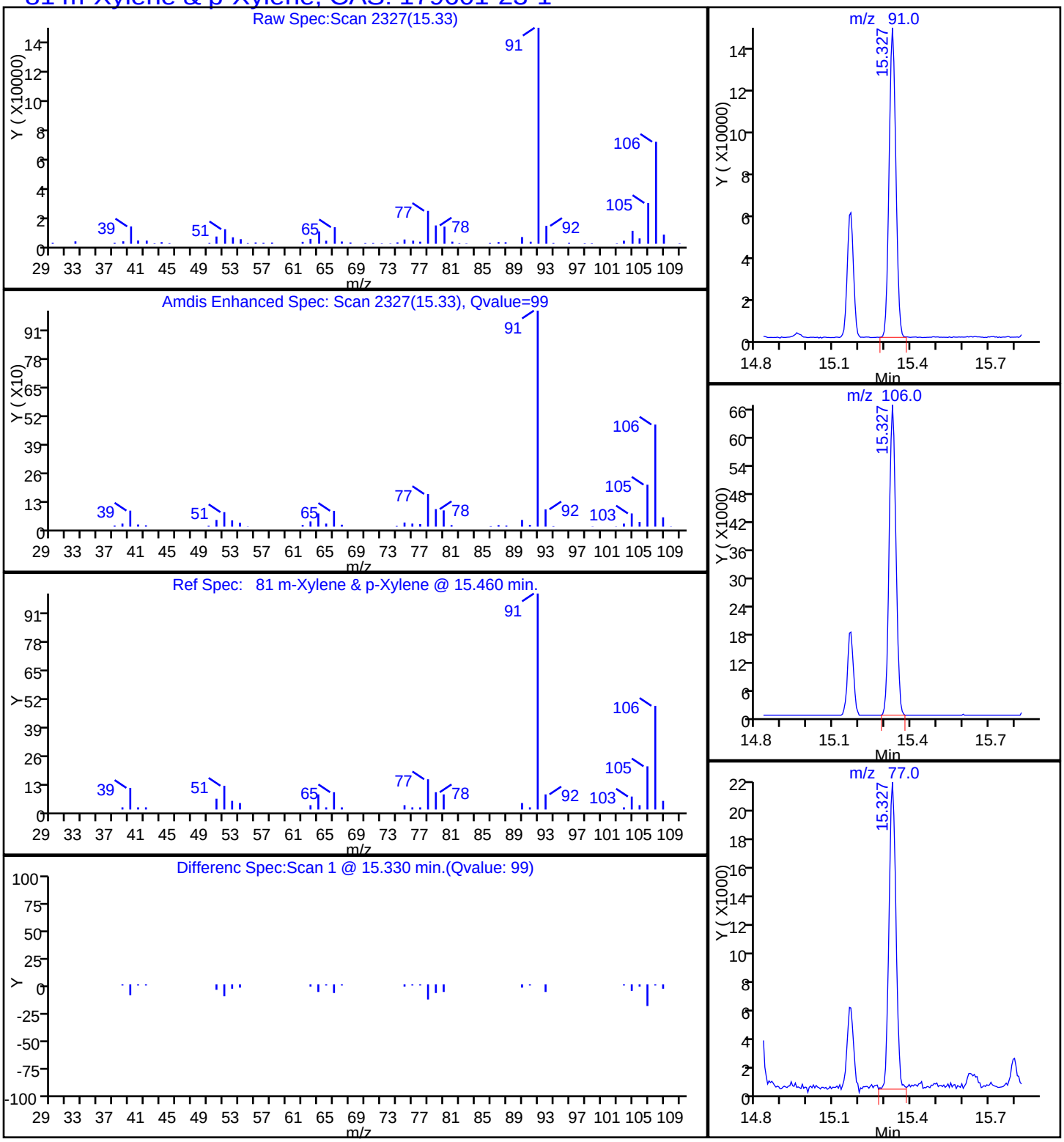
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Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

40 Hexane, CAS: 110-54-3



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D
Injection Date: 01-Sep-2016 13:38:30 Instrument ID: ME
Lims ID: 140-5720-A-2 Lab Sample ID: 140-5720-2
Client ID: SG-214
Operator ID: 007126 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

81 m-Xylene & p-Xylene, CAS: 179601-23-1

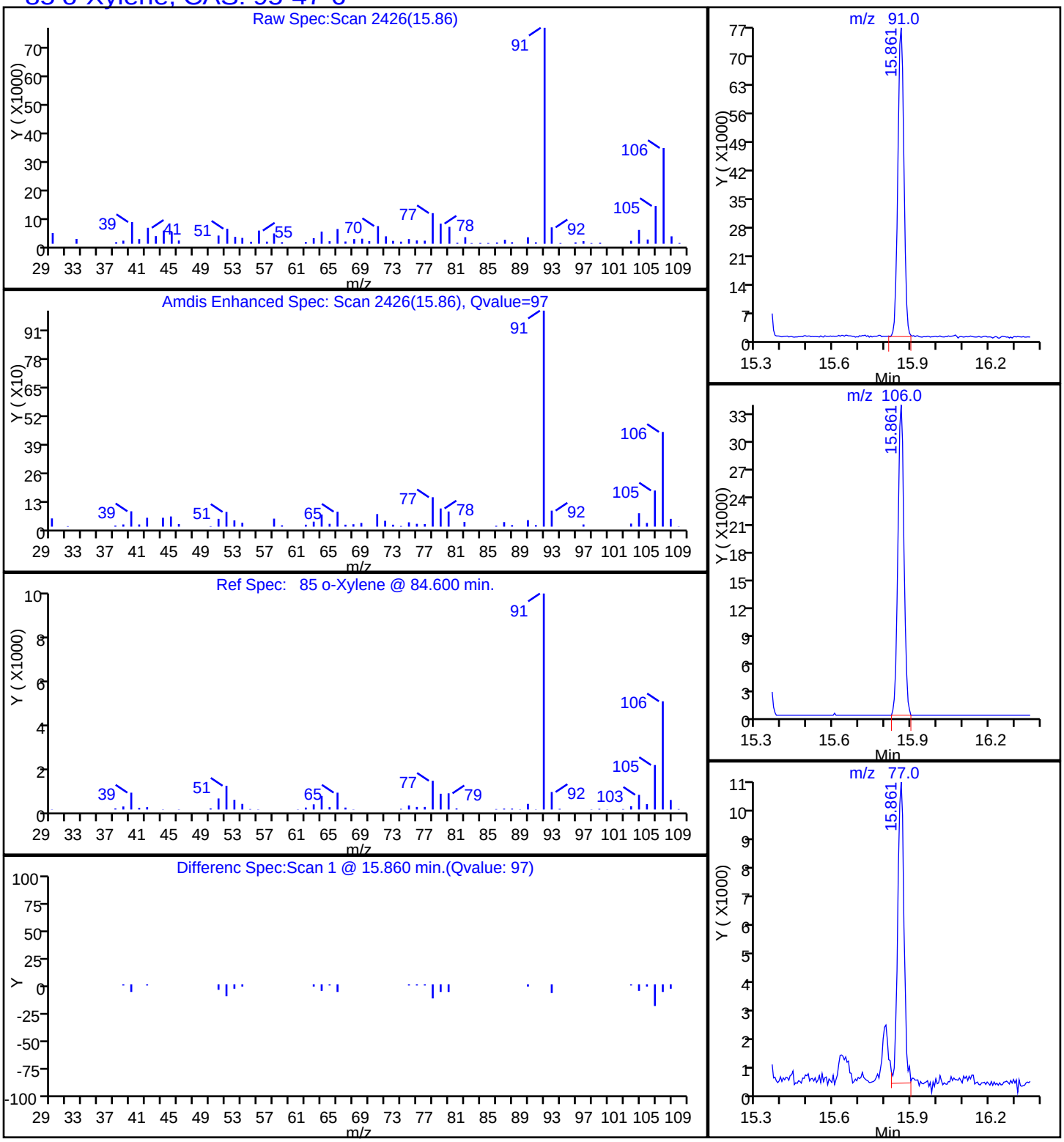


Report Date: 01-Sep-2016 16:04:23 Chrom Revision: 2.2 16-Aug-2016 13:13:02

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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D				
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	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		

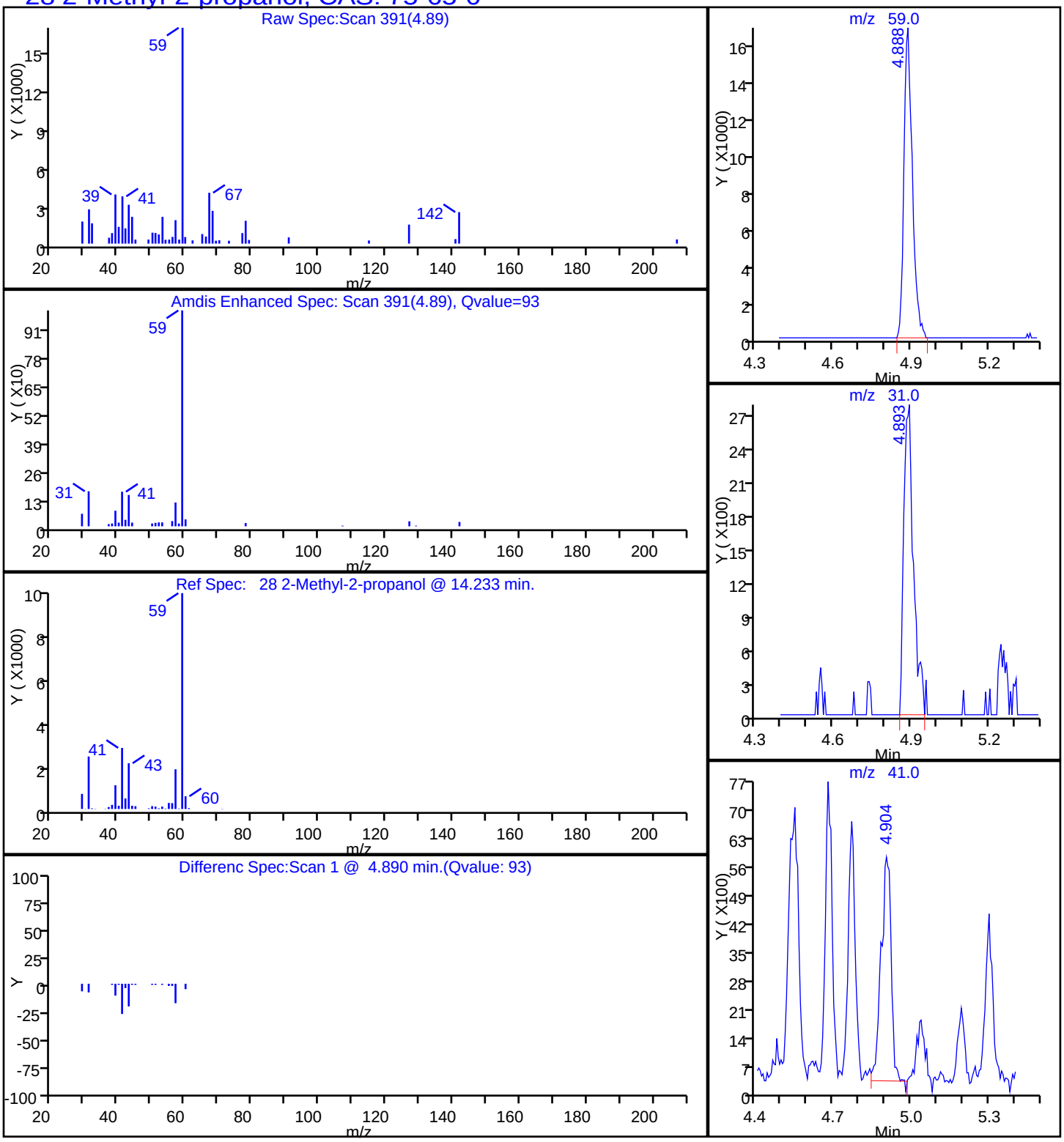
85 o-Xylene, CAS: 95-47-6



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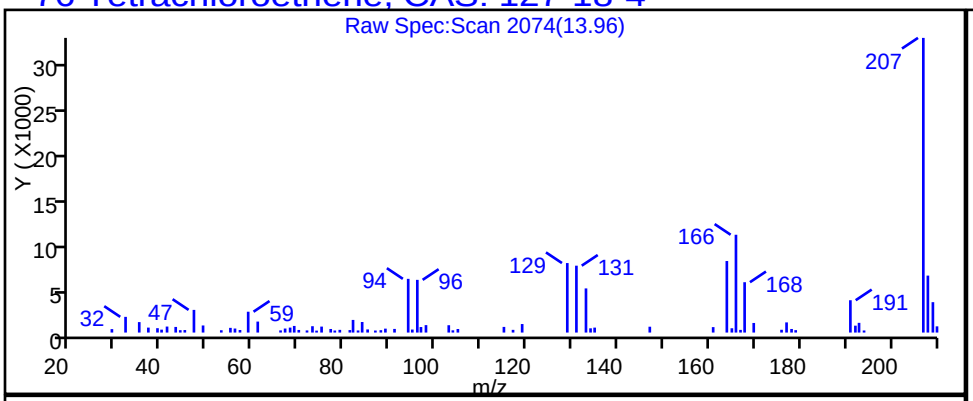
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Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

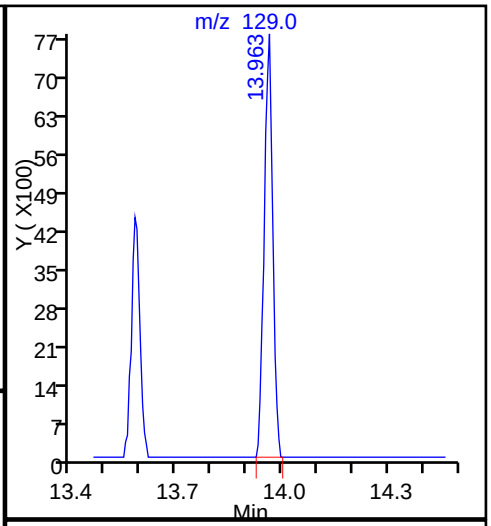
28 2-Methyl-2-propanol, CAS: 75-65-0

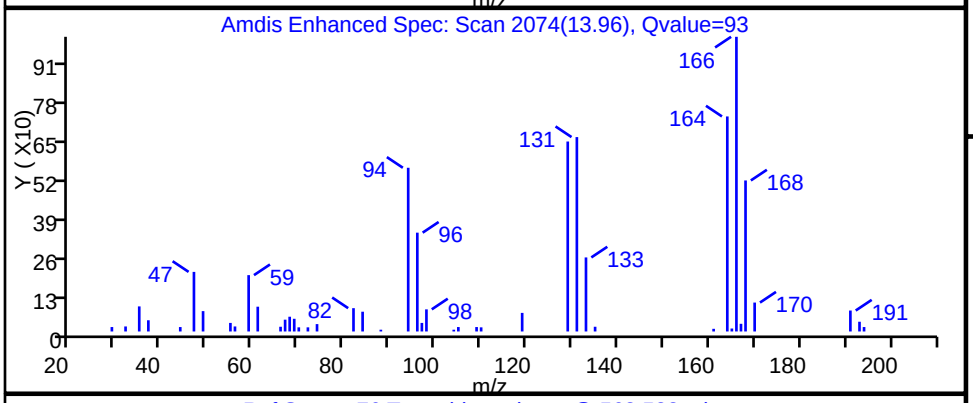


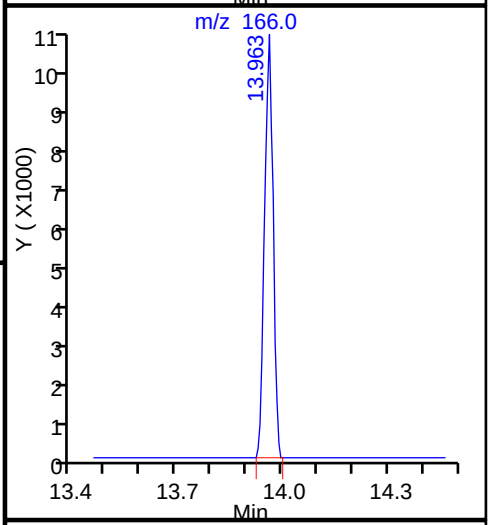
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D
Injection Date: 01-Sep-2016 13:38:30 Instrument ID: ME
Lims ID: 140-5720-A-2 Lab Sample ID: 140-5720-2
Client ID: SG-214
Operator ID: 007126 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

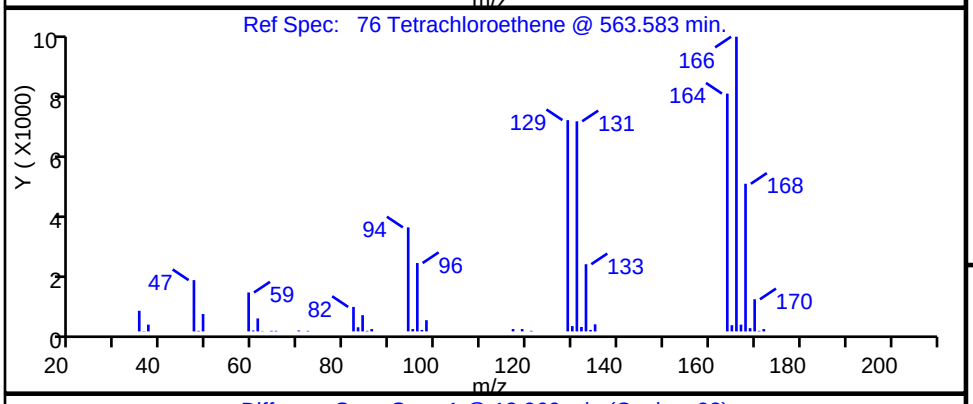
76 Tetrachloroethene, CAS: 127-18-4

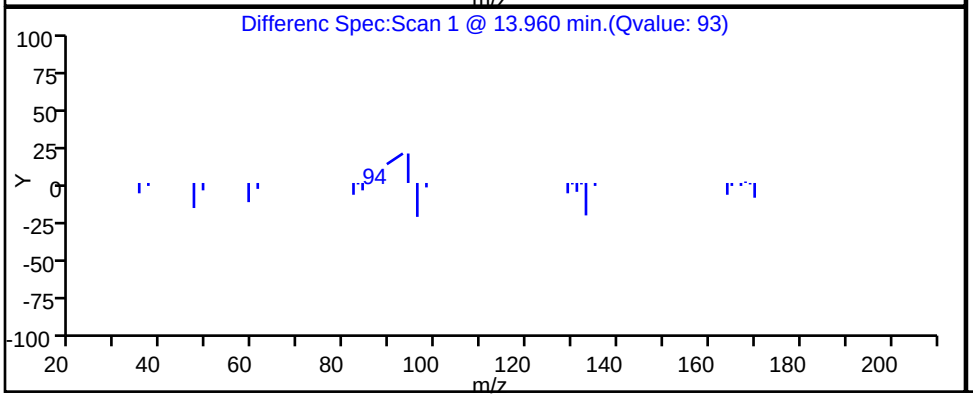


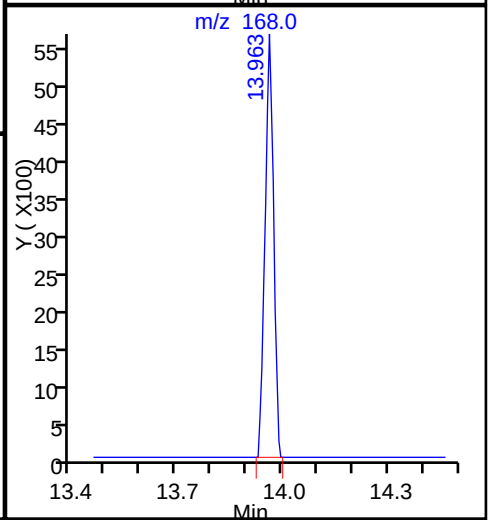








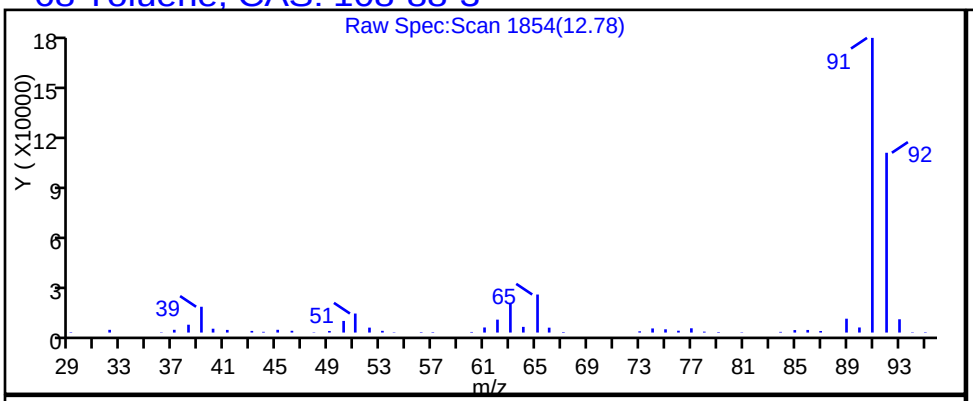


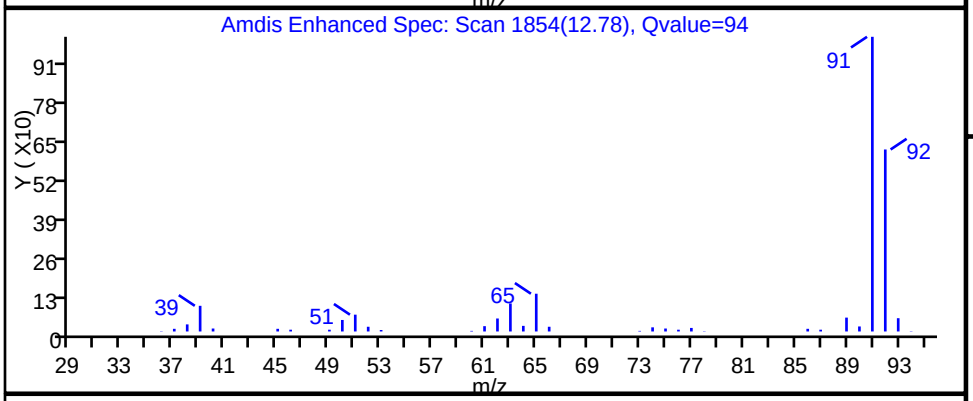


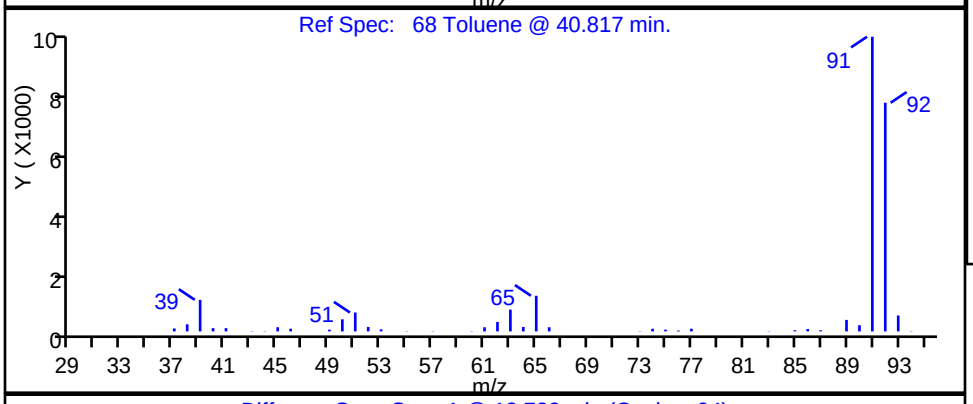
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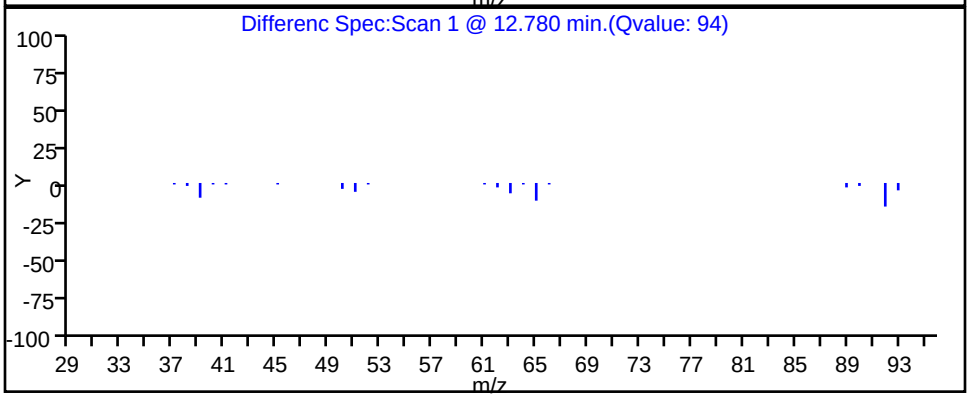
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D				
Injection Date:	01-Sep-2016 13:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-2	Lab Sample ID:	140-5720-2		
Client ID:	SG-214				
Operator ID:	007126	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

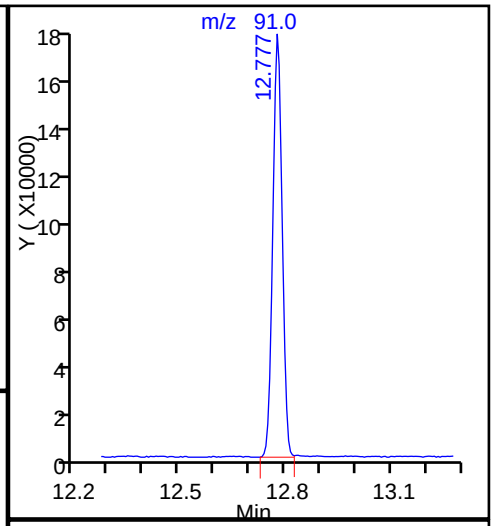
68 Toluene, CAS: 108-88-3

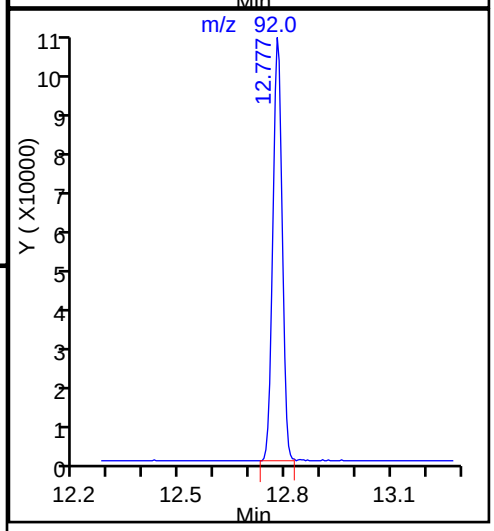






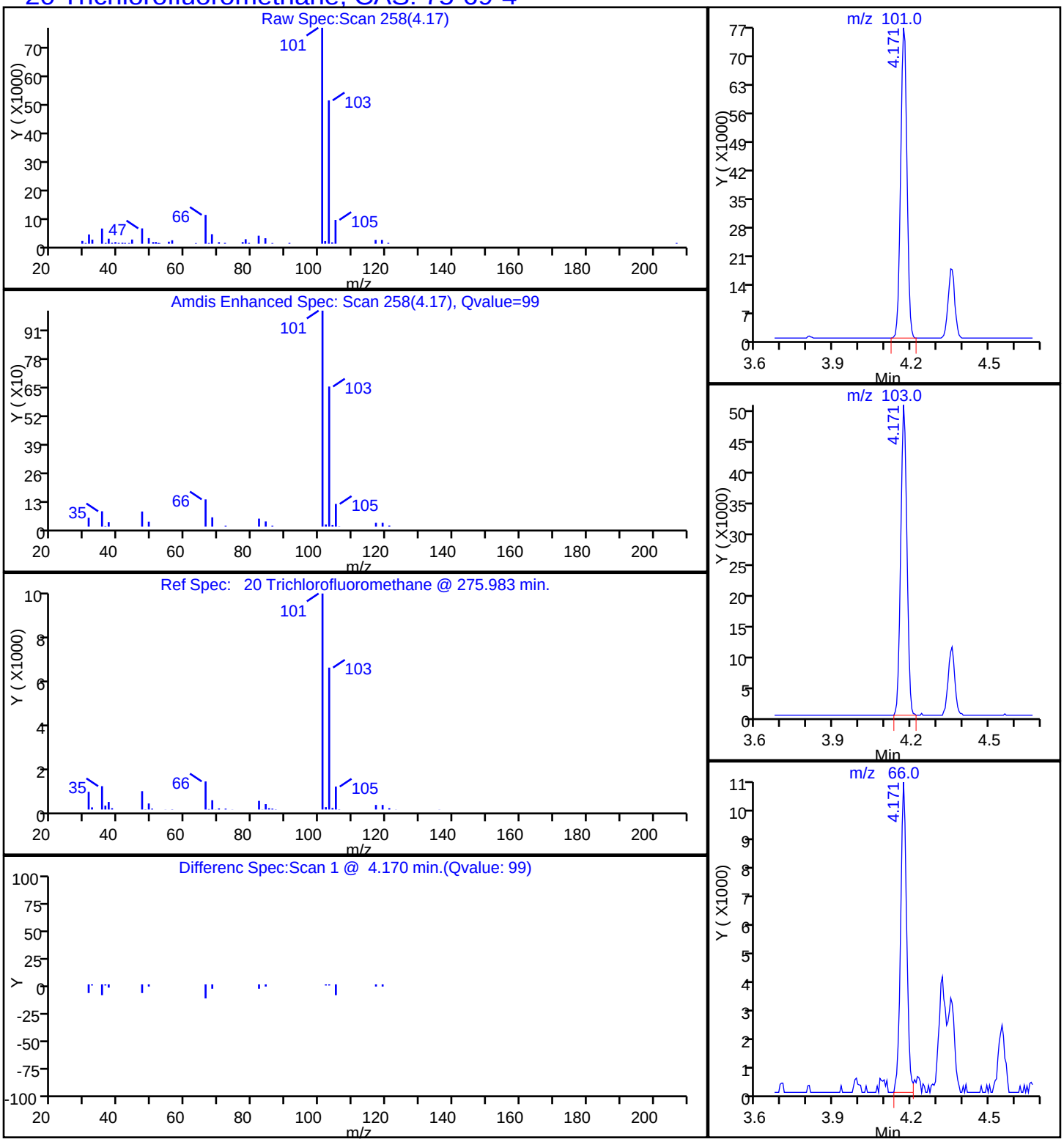






Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P103.D
Injection Date: 01-Sep-2016 13:38:30 Instrument ID: ME
Lims ID: 140-5720-A-2 Lab Sample ID: 140-5720-2
Client ID: SG-214
Operator ID: 007126 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 Lab Sample ID: 140-5720-3

Matrix: Air Lab File ID: EI01P104.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 14:22

Soil Aliquot Vol: Dilution Factor: 1.57

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	0.95		0.31	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.31	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.31	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.31	
75-34-3	1,1-Dichloroethane	98.96	ND		0.31	
75-35-4	1,1-Dichloroethene	96.94	ND		0.31	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.31	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.5		0.31	
106-93-4	1,2-Dibromoethane	187.87	ND		0.31	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.31	
107-06-2	1,2-Dichloroethane	98.96	ND		0.31	
78-87-5	1,2-Dichloropropane	112.99	ND		0.31	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.31	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.36		0.31	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.31	
106-46-7	1,4-Dichlorobenzene	147.00	17		0.31	
123-91-1	1,4-Dioxane	88.11	ND		0.79	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.79	
78-93-3	2-Butanone	72.11	15		1.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.79	
71-43-2	Benzene	78.11	0.42		0.31	
100-44-7	Benzyl chloride	126.58	ND		0.63	
75-27-4	Bromodichloromethane	163.83	ND		0.31	
75-25-2	Bromoform	252.75	ND		0.31	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	ND		0.16	
108-90-7	Chlorobenzene	112.56	ND		0.31	
75-00-3	Chloroethane	64.52	ND		0.31	
67-66-3	Chloroform	119.38	3.2		0.31	
74-87-3	Chloromethane	50.49	ND		0.79	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.31	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.31	
110-82-7	Cyclohexane	84.16	ND		0.79	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 Lab Sample ID: 140-5720-3

Matrix: Air Lab File ID: EI01P104.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 14:22

Soil Aliquot Vol: Dilution Factor: 1.57

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.31	
75-71-8	Dichlorodifluoromethane	120.91	0.38		0.31	
64-17-5	Ethanol	46.07	ND		7.9	
100-41-4	Ethylbenzene	106.17	0.59		0.31	
87-68-3	Hexachlorobutadiene	260.76	ND		0.31	
110-54-3	Hexane	86.17	1.2		0.79	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.63	
75-09-2	Methylene Chloride	84.93	ND		0.79	
179601-23-1	m-Xylene & p-Xylene	106.17	2.5		0.31	
95-47-6	o-Xylene	106.17	1.2		0.31	
100-42-5	Styrene	104.15	ND		0.31	
75-65-0	t-Butyl alcohol	74.12	2.4		1.3	
127-18-4	Tetrachloroethene	165.83	3.1		0.31	
108-88-3	Toluene	92.14	2.1		0.47	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.31	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.31	
79-01-6	Trichloroethene	131.39	ND		0.16	
75-69-4	Trichlorofluoromethane	137.37	0.50		0.31	
75-01-4	Vinyl chloride	62.50	ND		0.16	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 Lab Sample ID: 140-5720-3

Matrix: Air Lab File ID: EI01P104.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 14:22

Soil Aliquot Vol: Dilution Factor: 1.57

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	5.2		1.7	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.2	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.7	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		2.4	
75-34-3	1,1-Dichloroethane	98.96	ND		1.3	
75-35-4	1,1-Dichloroethene	96.94	ND		1.2	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.3	
95-63-6	1,2,4-Trimethylbenzene	120.20	7.5		1.5	
106-93-4	1,2-Dibromoethane	187.87	ND		2.4	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.9	
107-06-2	1,2-Dichloroethane	98.96	ND		1.3	
78-87-5	1,2-Dichloropropane	112.99	ND		1.5	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.2	
108-67-8	1,3,5-Trimethylbenzene	120.20	1.7		1.5	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.9	
106-46-7	1,4-Dichlorobenzene	147.00	100		1.9	
123-91-1	1,4-Dioxane	88.11	ND		2.8	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		3.7	
78-93-3	2-Butanone	72.11	44		3.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		3.2	
71-43-2	Benzene	78.11	1.4		1.0	
100-44-7	Benzyl chloride	126.58	ND		3.3	
75-27-4	Bromodichloromethane	163.83	ND		2.1	
75-25-2	Bromoform	252.75	ND		3.2	
74-83-9	Bromomethane	94.94	ND		1.2	
56-23-5	Carbon tetrachloride	153.81	ND		0.99	
108-90-7	Chlorobenzene	112.56	ND		1.4	
75-00-3	Chloroethane	64.52	ND		0.83	
67-66-3	Chloroform	119.38	16		1.5	
74-87-3	Chloromethane	50.49	ND		1.6	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.2	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.4	
110-82-7	Cyclohexane	84.16	ND		2.7	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 Lab Sample ID: 140-5720-3

Matrix: Air Lab File ID: EI01P104.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 14:22

Soil Aliquot Vol: Dilution Factor: 1.57

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		2.7	
75-71-8	Dichlorodifluoromethane	120.91	1.9		1.6	
64-17-5	Ethanol	46.07	ND		15	
100-41-4	Ethylbenzene	106.17	2.6		1.4	
87-68-3	Hexachlorobutadiene	260.76	ND		3.3	
110-54-3	Hexane	86.17	4.2		2.8	
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.3	
75-09-2	Methylene Chloride	84.93	ND		2.7	
179601-23-1	m-Xylene & p-Xylene	106.17	11		1.4	
95-47-6	o-Xylene	106.17	5.3		1.4	
100-42-5	Styrene	104.15	ND		1.3	
75-65-0	t-Butyl alcohol	74.12	7.4		3.8	
127-18-4	Tetrachloroethene	165.83	21		2.1	
108-88-3	Toluene	92.14	8.0		1.8	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.2	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.4	
79-01-6	Trichloroethene	131.39	ND		0.84	
75-69-4	Trichlorofluoromethane	137.37	2.8		1.8	
75-01-4	Vinyl chloride	62.50	ND		0.40	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P104.D
Lims ID: 140-5720-A-3
Client ID: SG-212
Sample Type: Client
Inject. Date: 01-Sep-2016 14:22:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.5700
Sample Info: 140-0003369-007
Misc. Info.: 140-5720-a-3@1.57
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 16:02:40 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:02:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	73	261962	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1284207	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1193575	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	87	1016132	4.16	
8 Dichlorodifluoromethane	85	2.946	2.946	0.000	99	26767	0.0972	
9 Chloromethane	52	3.092	3.092	-0.005	73	1031	0.0583	7
17 Ethanol	31	3.777	3.777	0.000	98	28788	1.55	
20 Trichlorofluoromethane	101	4.165	4.165	0.000	99	33996	0.1275	
28 2-Methyl-2-propanol	59	4.882	4.877	0.005	93	67424	0.6216	
30 1,1,2-Trichloro-1,2,2-trif	101	4.936	4.942	-0.006	76	4337	0.0252	
31 Methylene Chloride	84	5.114	5.103	0.011	78	11156	0.1358	
39 2-Butanone (MEK)	72	6.829	6.834	-0.005	95	143895	3.77	
40 Hexane	56	6.845	6.840	0.005	50	15458	0.3021	
44 Chloroform	83	7.584	7.584	0.000	96	178236	0.8162	
47 1,1,1-Trichloroethane	97	8.592	8.598	-0.006	93	59254	0.2421	
50 Cyclohexane	69	9.202	9.196	0.006	66	2984	0.0686	
51 Benzene	78	9.202	9.202	0.000	94	28465	0.1081	
52 Carbon tetrachloride	117	9.218	9.223	-0.005	88	5446	0.0214	
56 Isooctane	57	10.037	10.037	0.000	89	14753	0.0482	
61 Dichlorobromomethane	83	10.836	10.835	0.001	66	14991	0.0672	
65 4-Methyl-2-pentanone (MIBK	43	11.892	11.887	0.005	88	10687	0.1036	
68 Toluene	91	12.777	12.777	0.000	94	154465	0.5396	
76 Tetrachloroethene	129	13.958	13.963	-0.005	95	87080	0.7820	
79 Ethylbenzene	91	15.166	15.166	0.000	98	58164	0.1514	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	194040	0.6477	
84 Styrene	104	15.802	15.802	0.000	94	9903	0.0513	
85 o-Xylene	91	15.861	15.861	0.000	97	97318	0.3095	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	90	16489	0.0905	M
96 1,2,4-Trimethylbenzene	105	17.727	17.732	-0.005	97	130643	0.3872	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	91	865387	4.35	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

40MXISSURP_00001	Amount Added:	40.00	Units: mL	Run Reagent

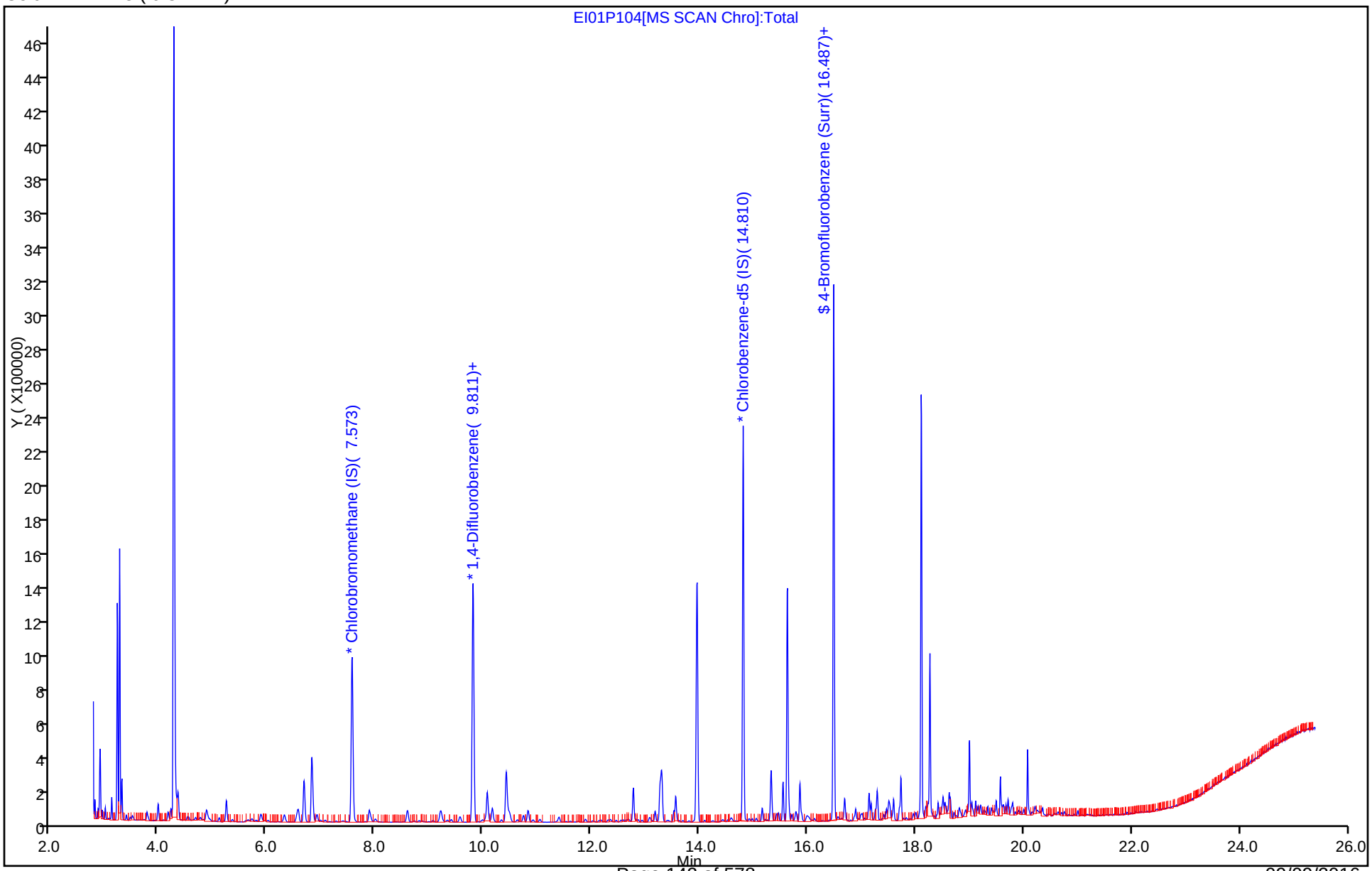
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P104.D

Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3	Worklist Smp#:	7
Client ID:	SG-212				
Purge Vol:	500.000 mL	Dil. Factor:	1.5700	ALS Bottle#:	4
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

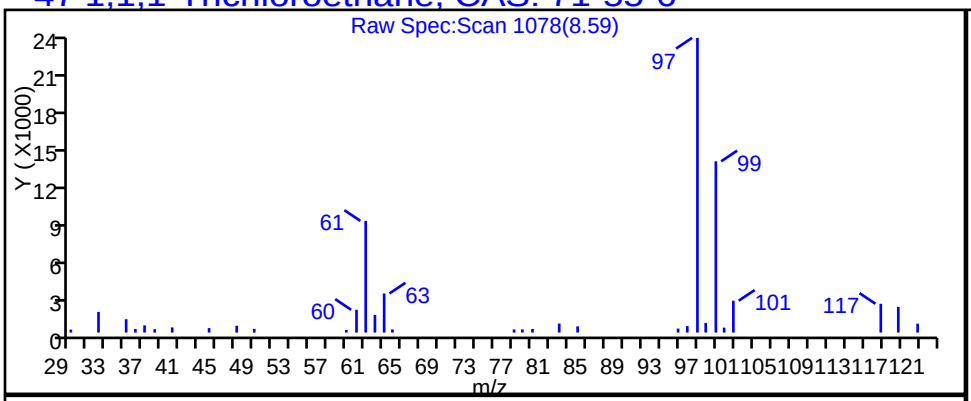
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Lims ID:	140-5720-A-3				
Client ID:	SG-212				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 14:22:30	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700		
Sample Info:	140-0003369-007				
Misc. Info.:	140-5720-a-3@1.57				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 16:02:40	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
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Process Host:	XAWRK023				

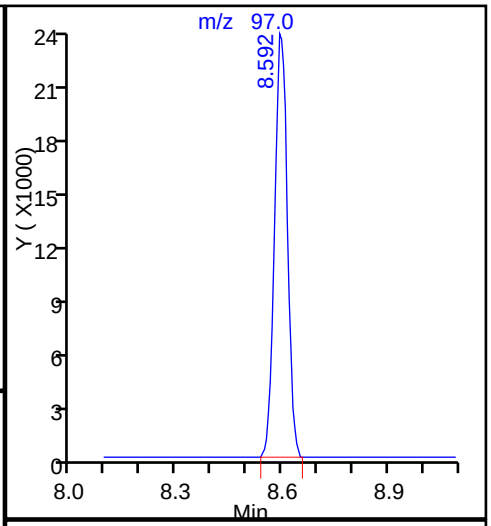
First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:02:40

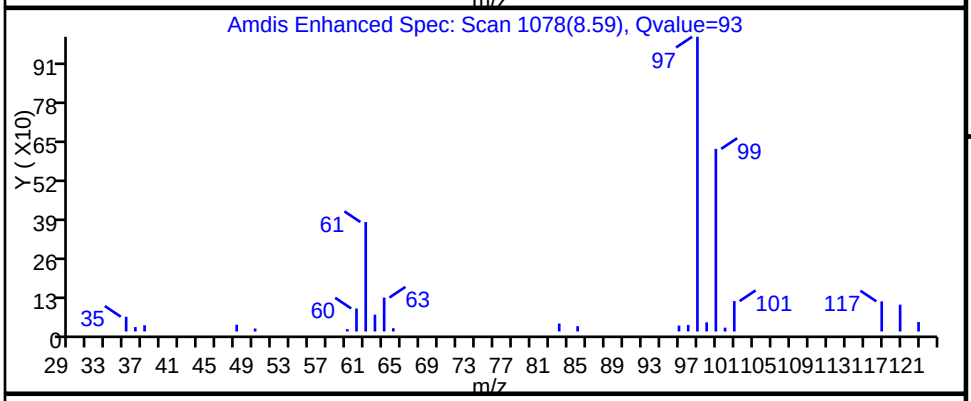
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.16	104.01

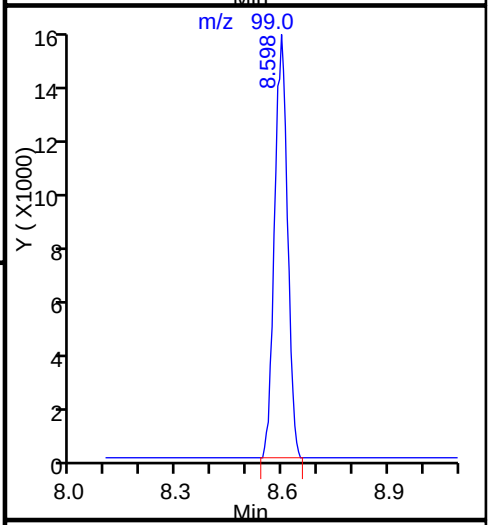
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Injection Date: 01-Sep-2016 14:22:30 Instrument ID: ME
Lims ID: 140-5720-A-3 Lab Sample ID: 140-5720-3
Client ID: SG-212
Operator ID: 007126 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.5700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

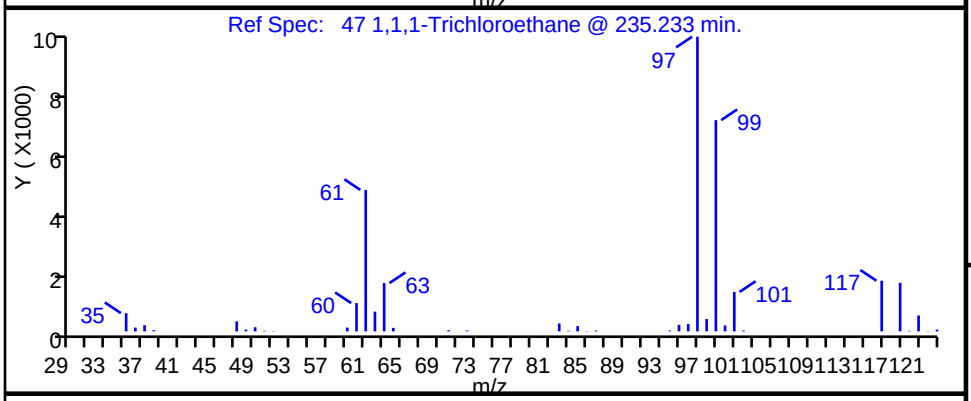
47 1,1,1-Trichloroethane, CAS: 71-55-6

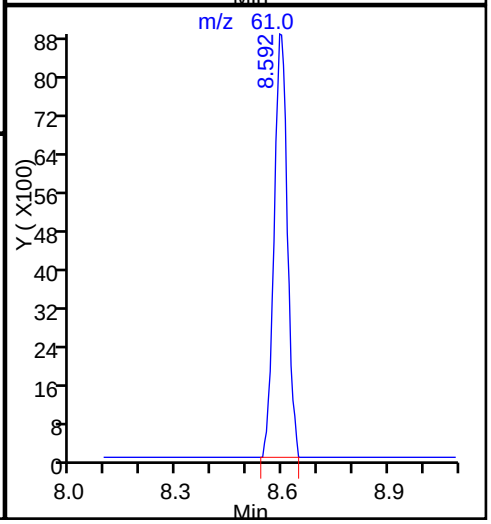


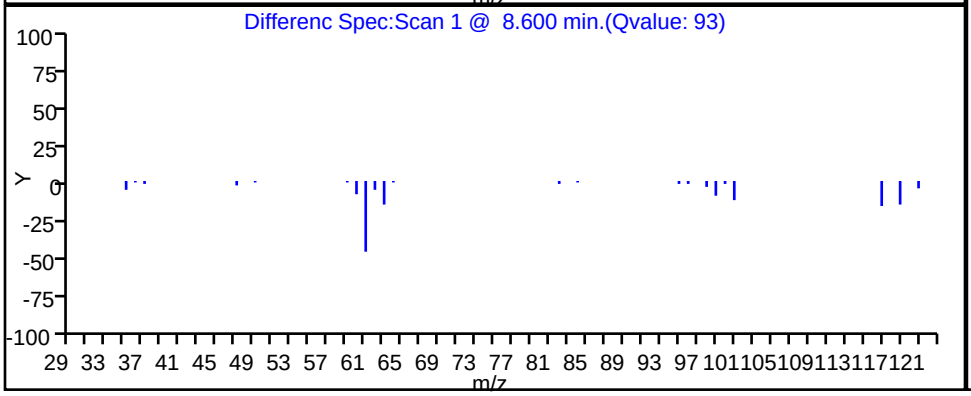






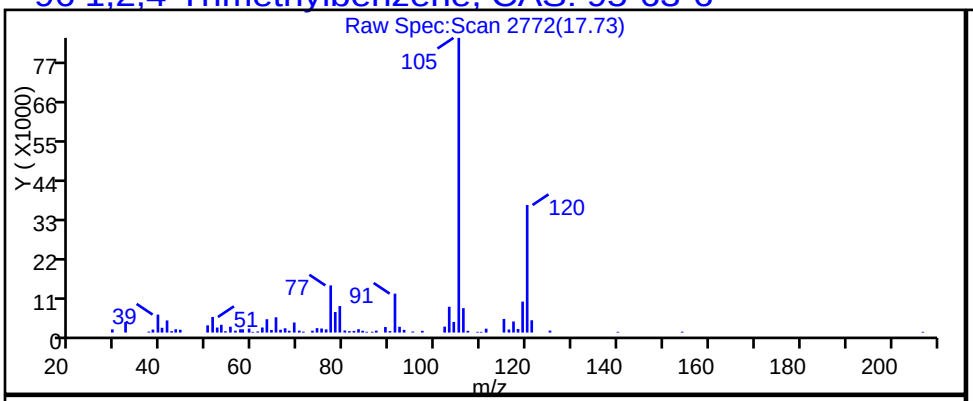


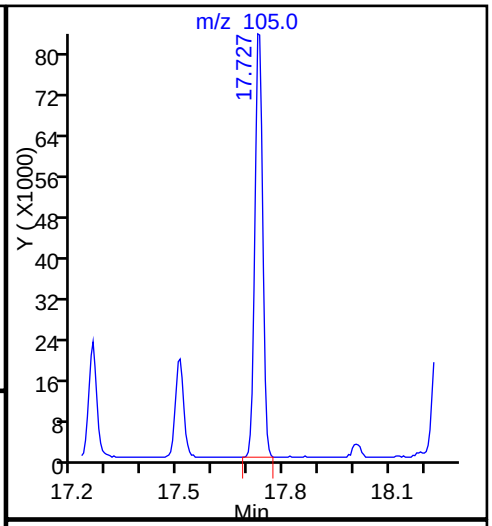


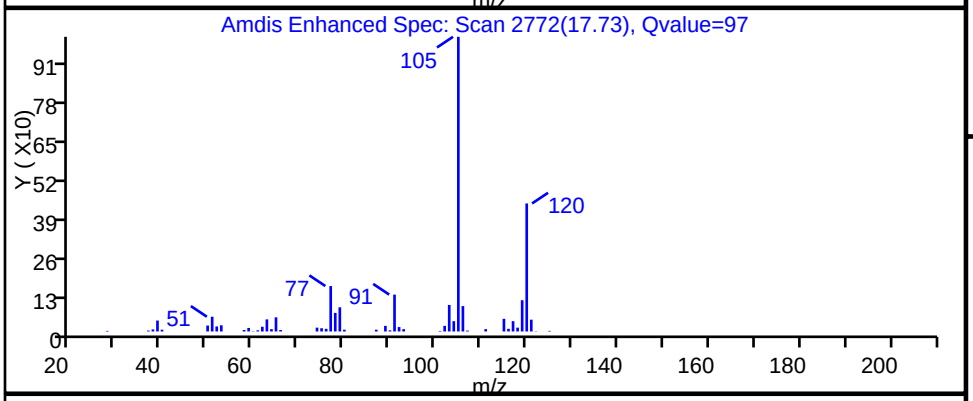


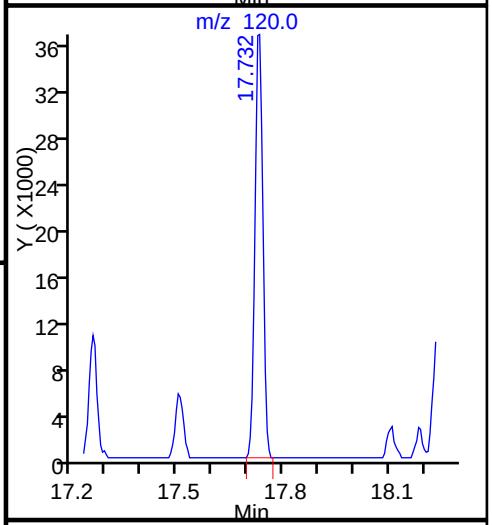
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Injection Date: 01-Sep-2016 14:22:30 Instrument ID: ME
Lims ID: 140-5720-A-3 Lab Sample ID: 140-5720-3
Client ID: SG-212
Operator ID: 007126 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.5700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

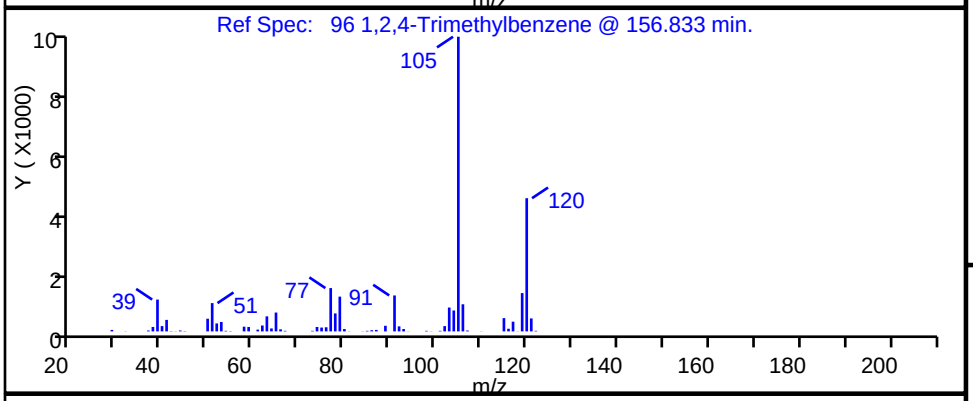
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

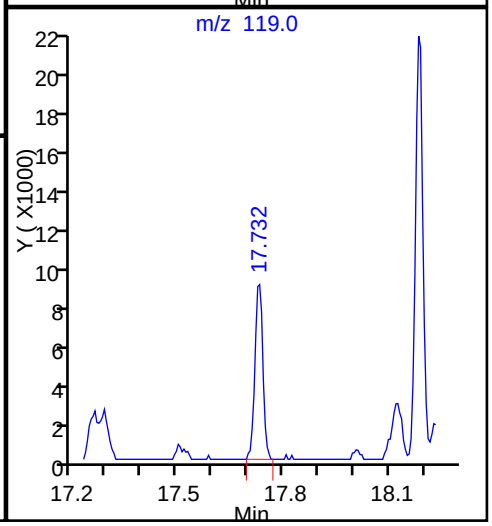


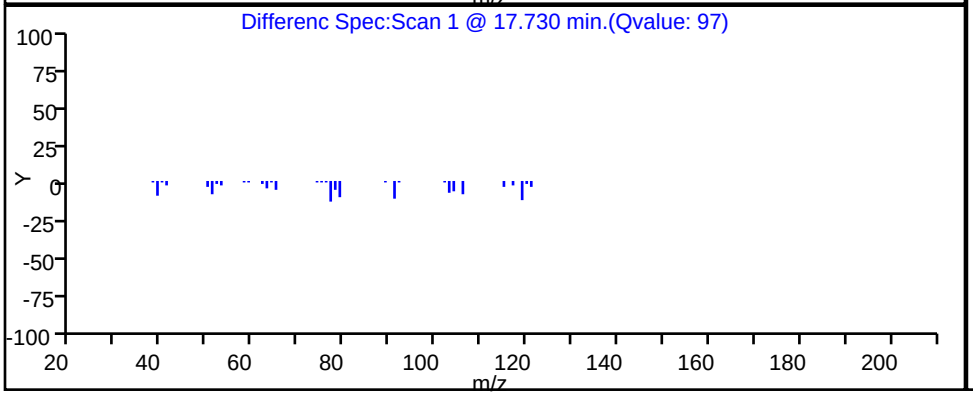






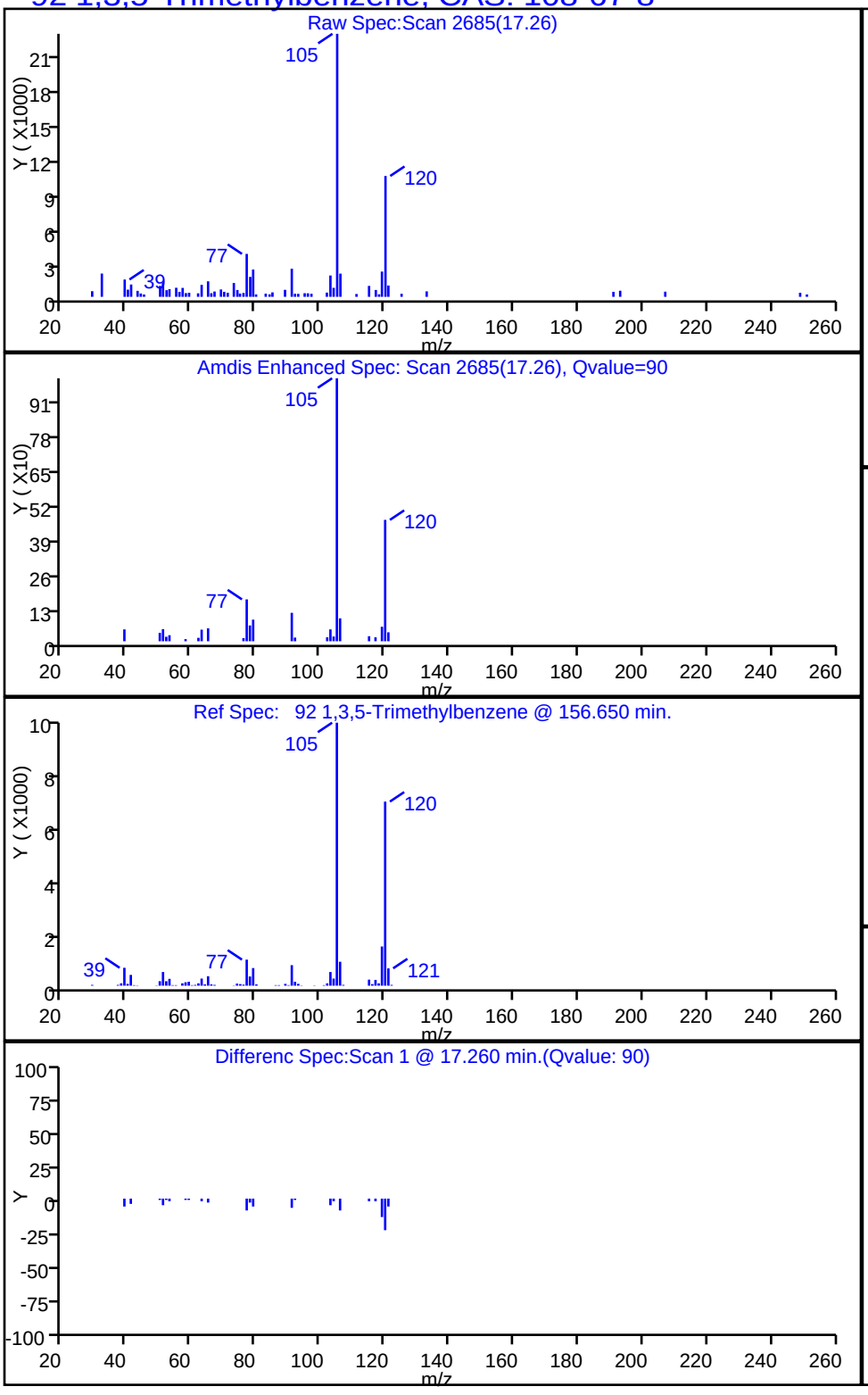


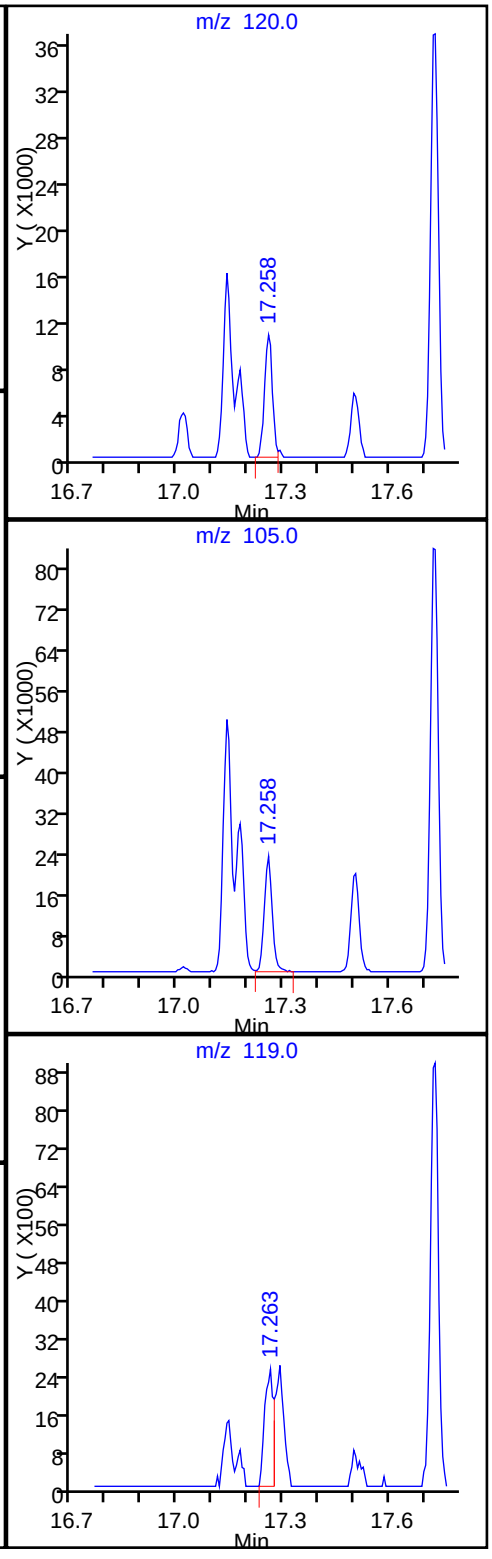




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Injection Date: 01-Sep-2016 14:22:30 Instrument ID: ME
Lims ID: 140-5720-A-3 Lab Sample ID: 140-5720-3
Client ID: SG-212
Operator ID: 007126 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.5700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

92 1,3,5-Trimethylbenzene, CAS: 108-67-8





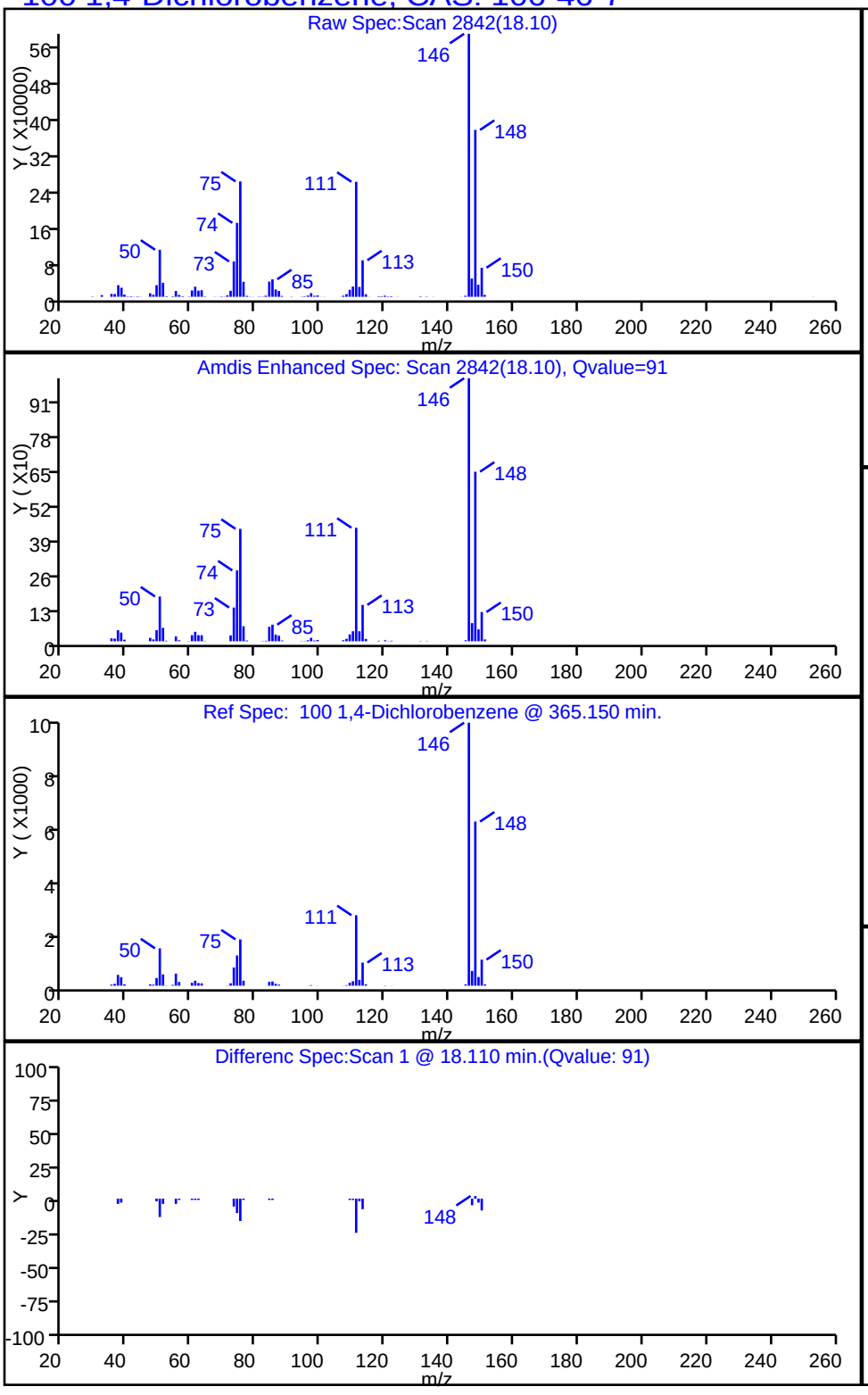
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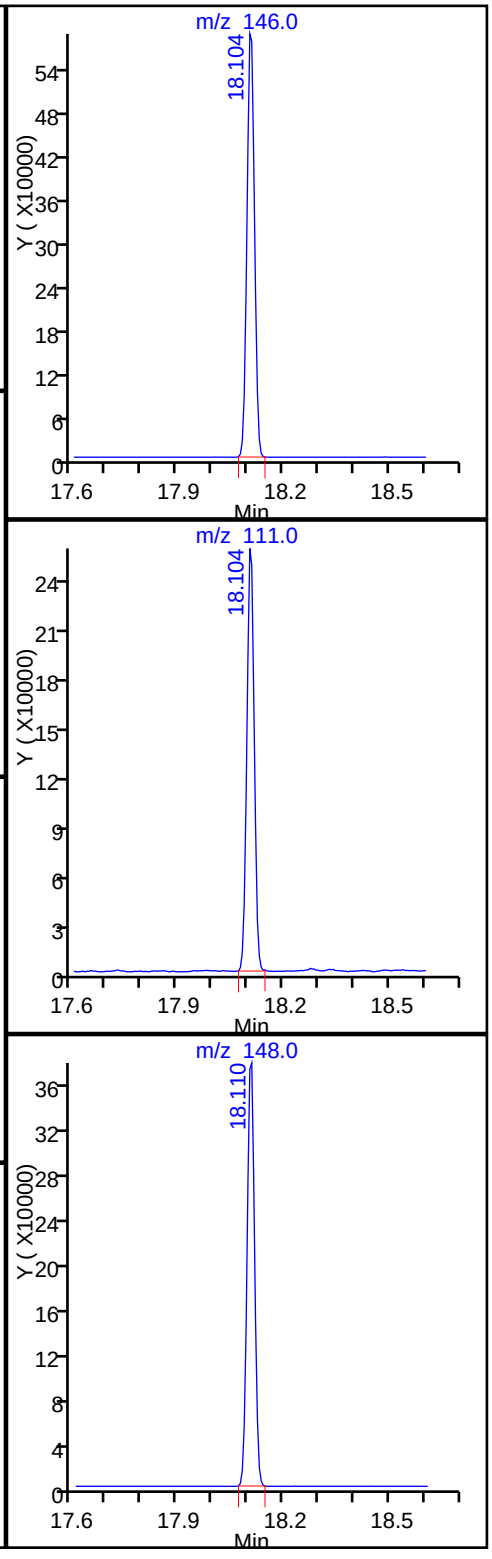
TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P104.D

Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3
Client ID:	SG-212		
Operator ID:	007126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

100 1,4-Dichlorobenzene, CAS: 106-46-7

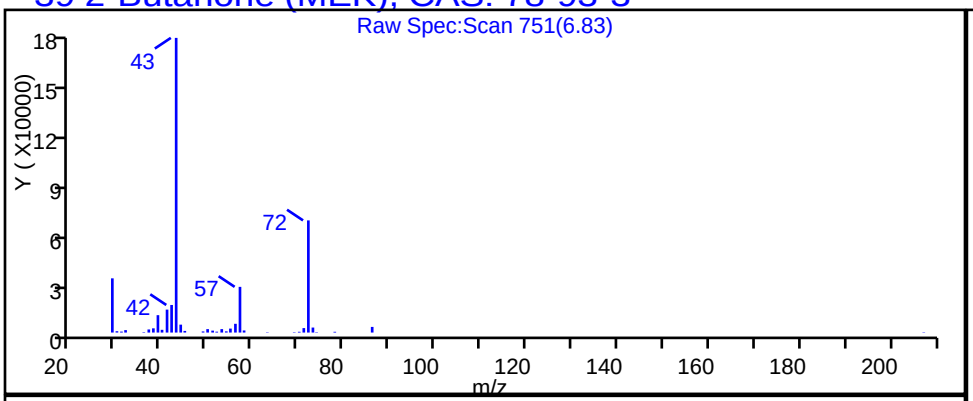


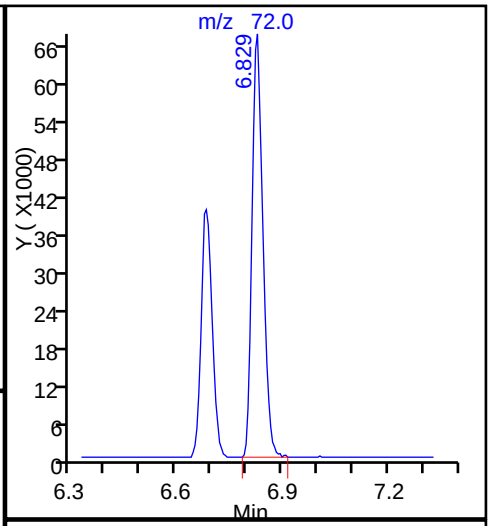


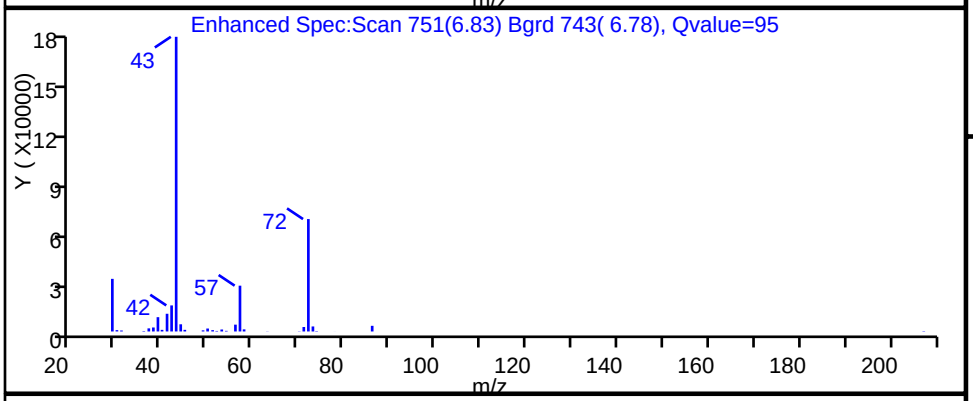
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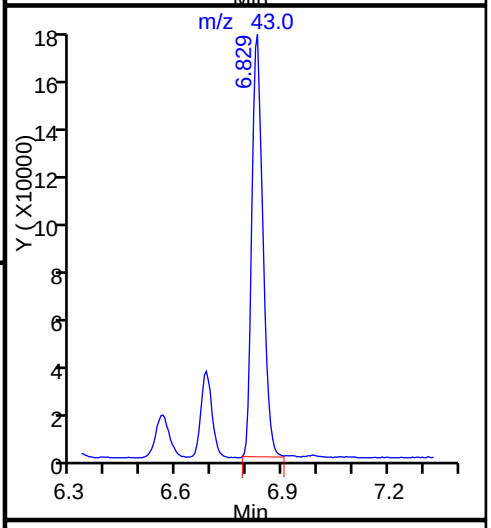
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Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3
Client ID:	SG-212		
Operator ID:	007126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

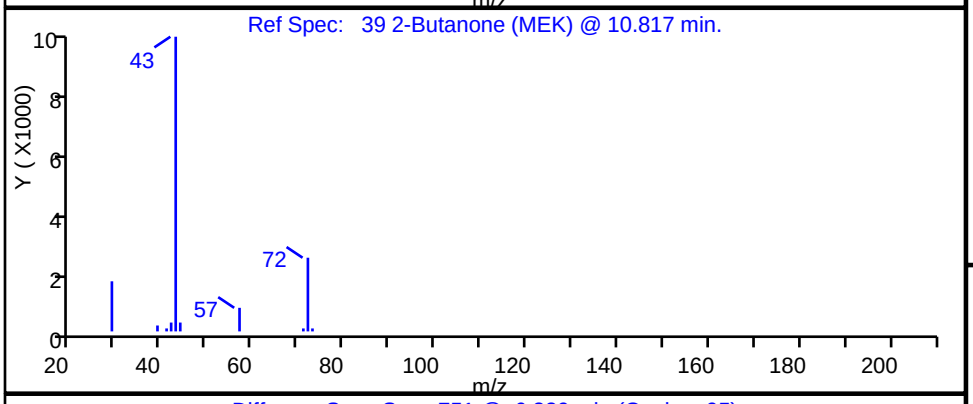
39 2-Butanone (MEK), CAS: 78-93-3

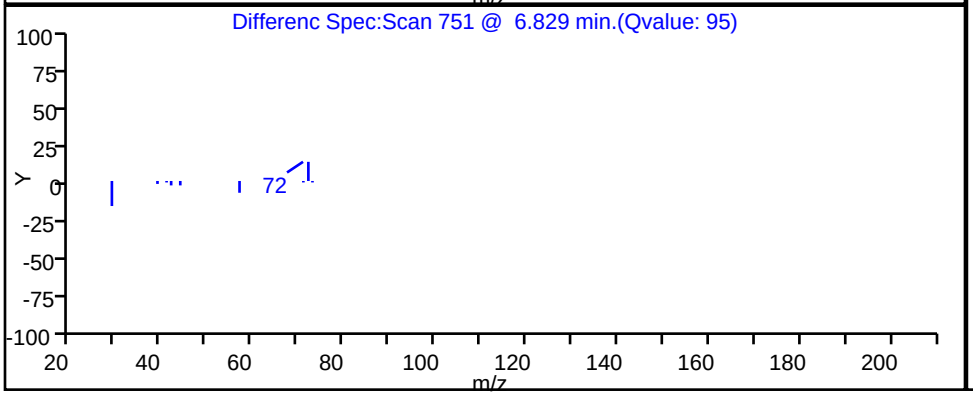


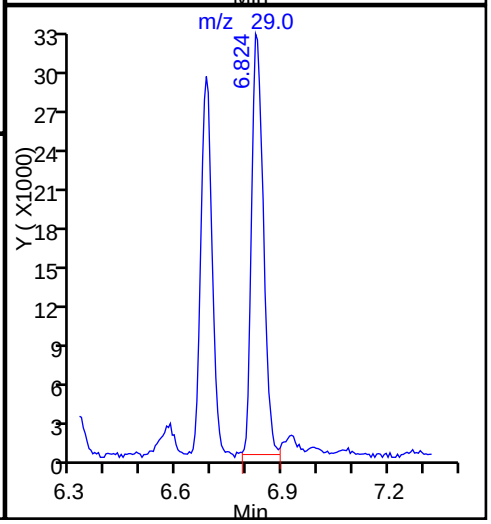








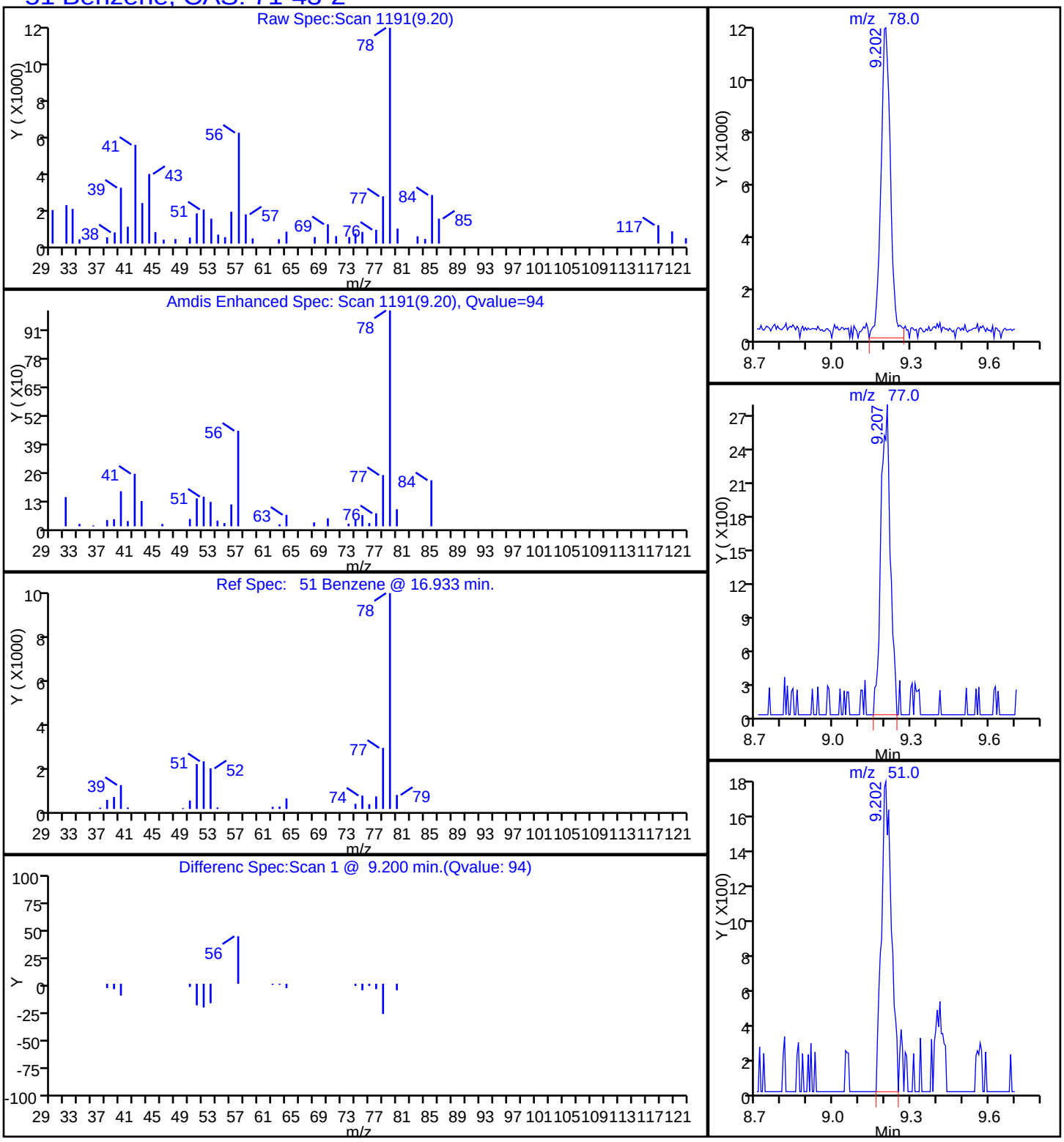




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Client ID:	SG-212		
Operator ID:	007126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

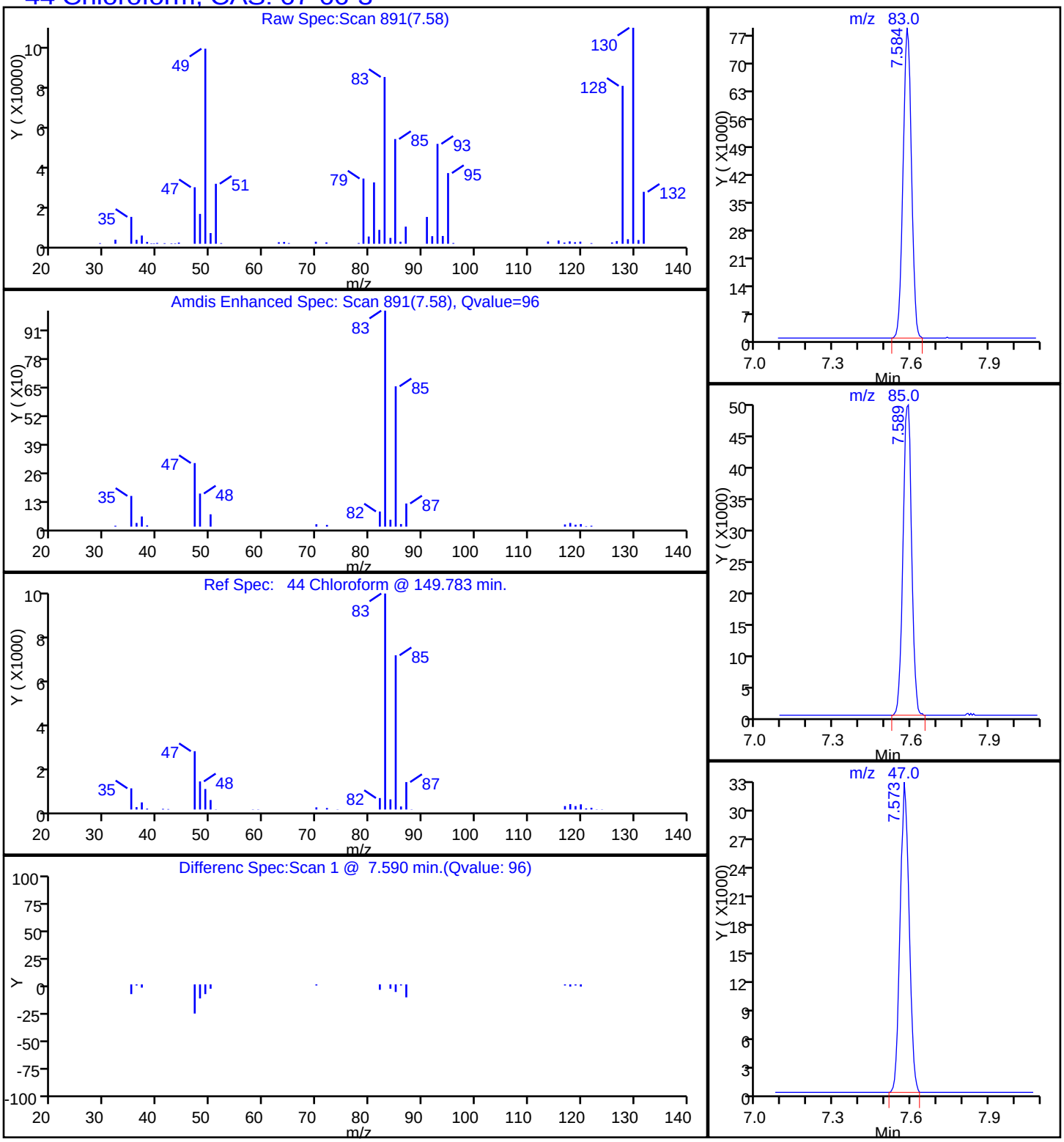
51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P104.D		
Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3
Client ID:	SG-212		
Operator ID:	007126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

44 Chloroform, CAS: 67-66-3

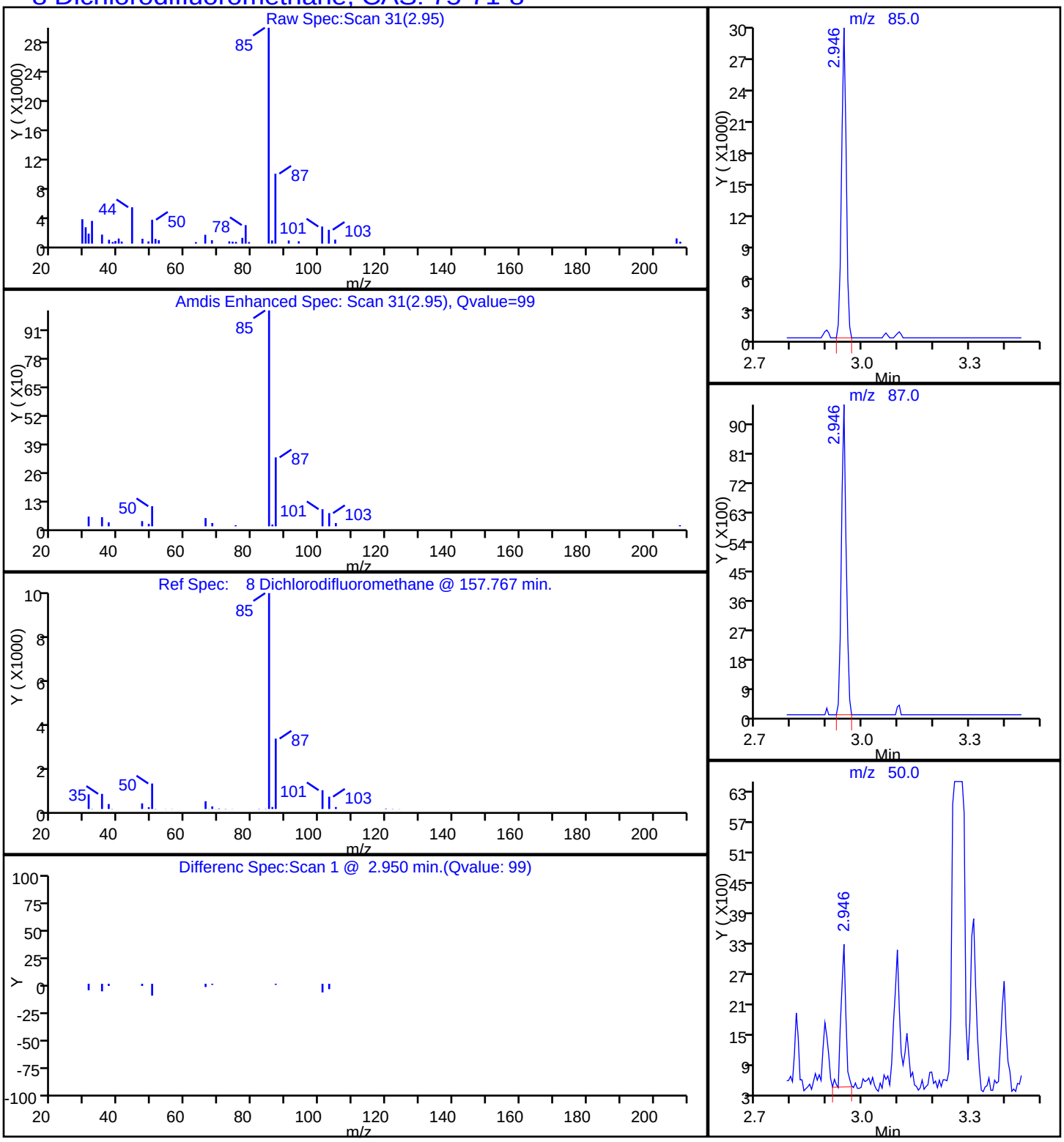


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Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME		
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3		
Client ID:	SG-212				
Operator ID:	007126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

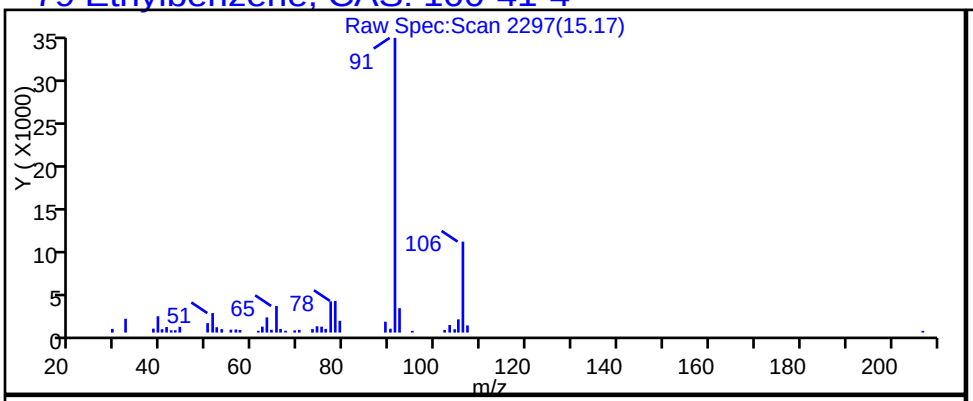
8 Dichlorodifluoromethane, CAS: 75-71-8

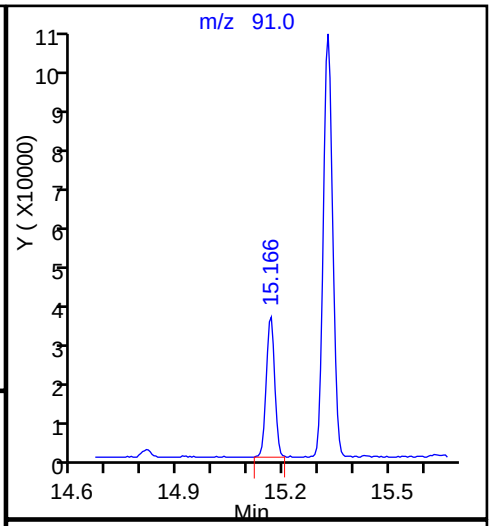


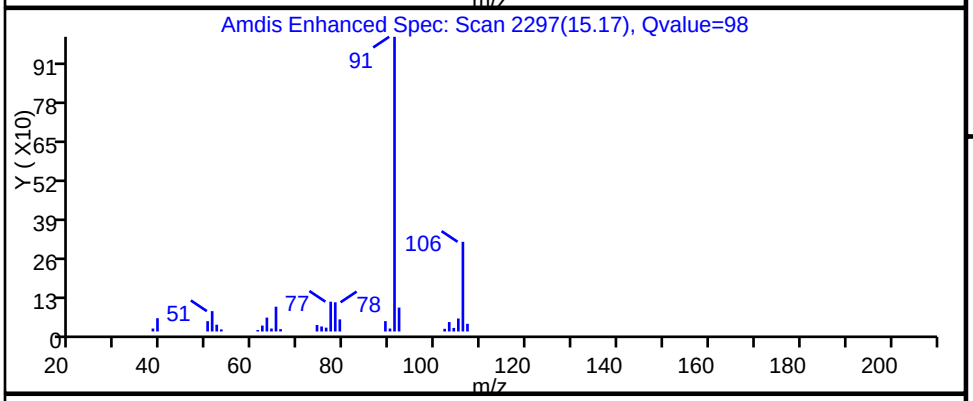
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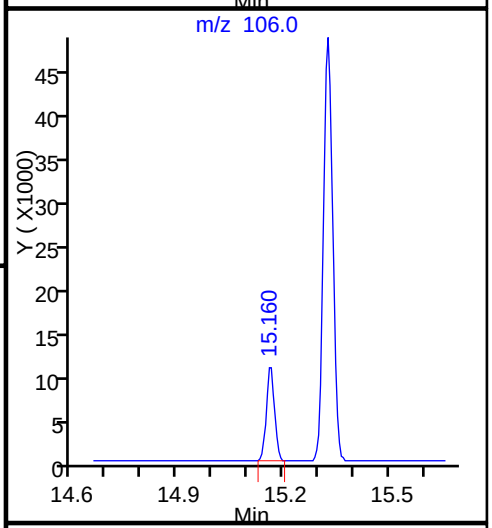
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Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3		
Client ID:	SG-212				
Operator ID:	007126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

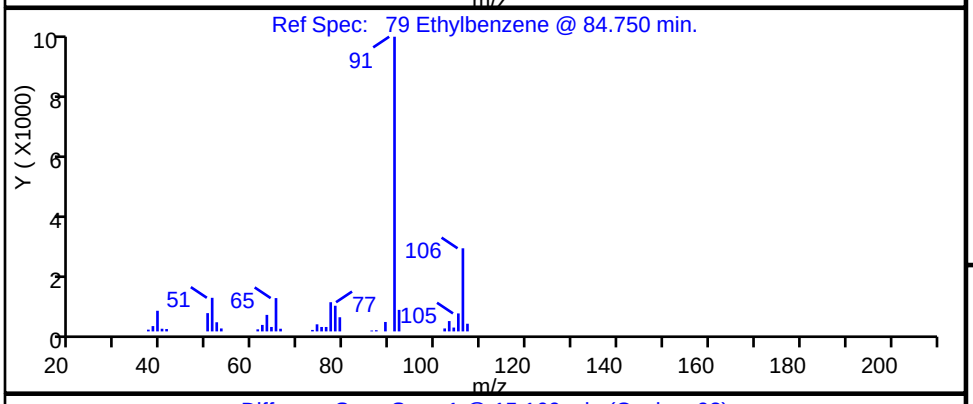
79 Ethylbenzene, CAS: 100-41-4

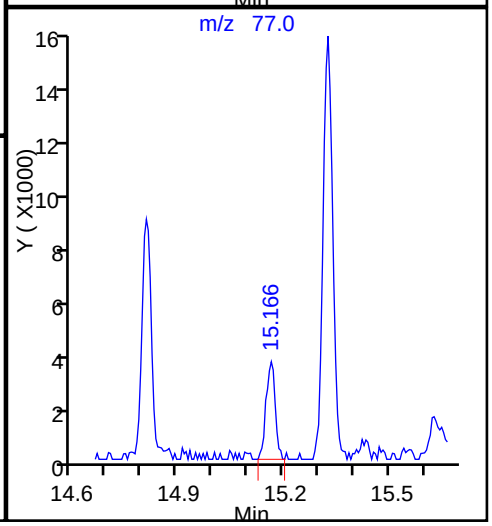


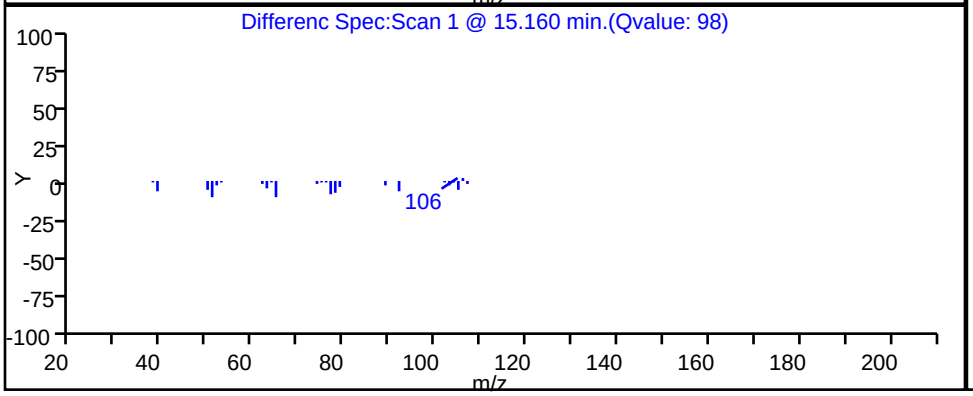








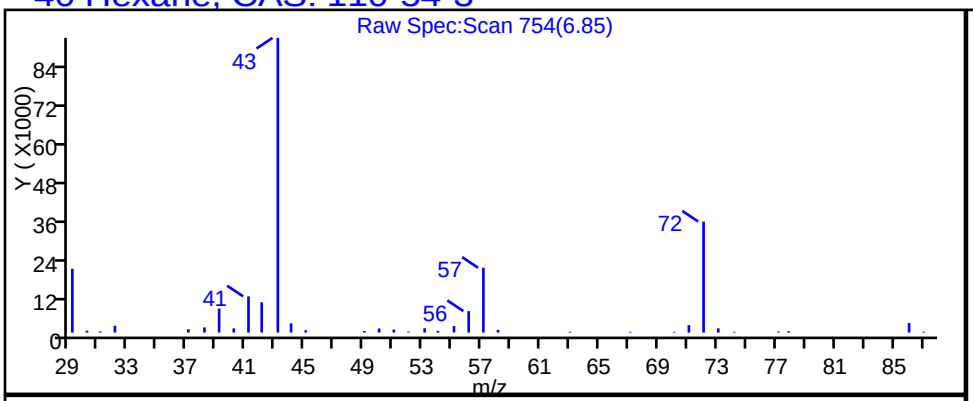


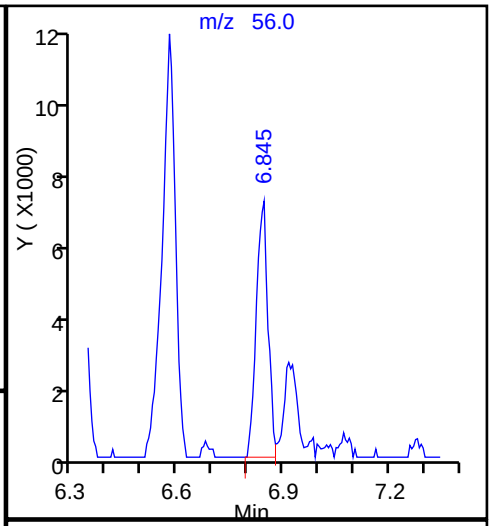


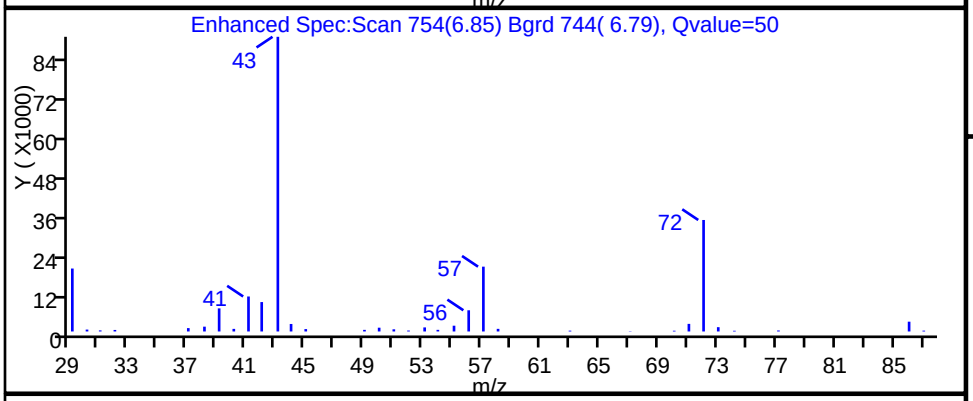
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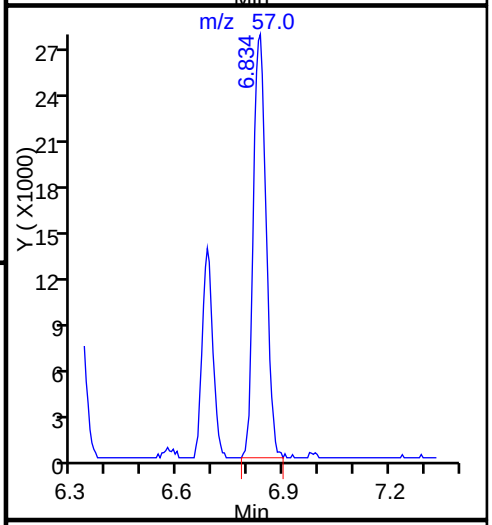
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Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3
Client ID:	SG-212		
Operator ID:	007126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

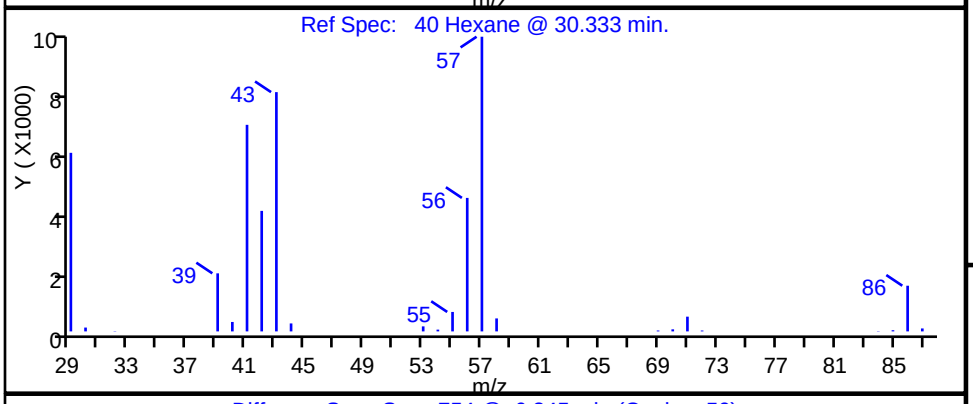
40 Hexane, CAS: 110-54-3

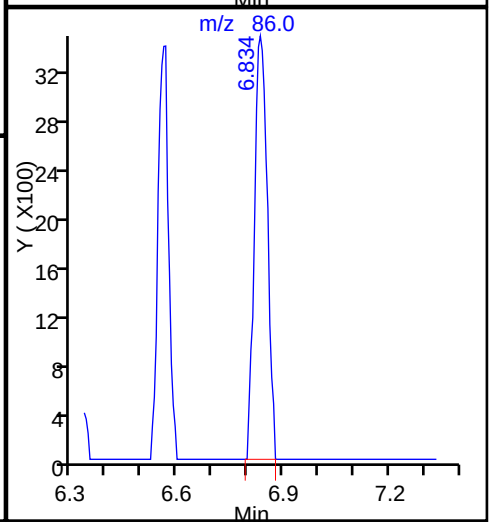


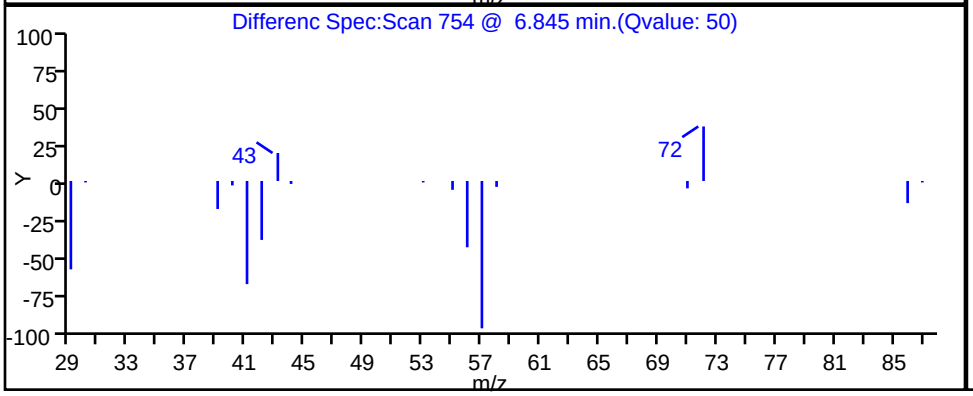






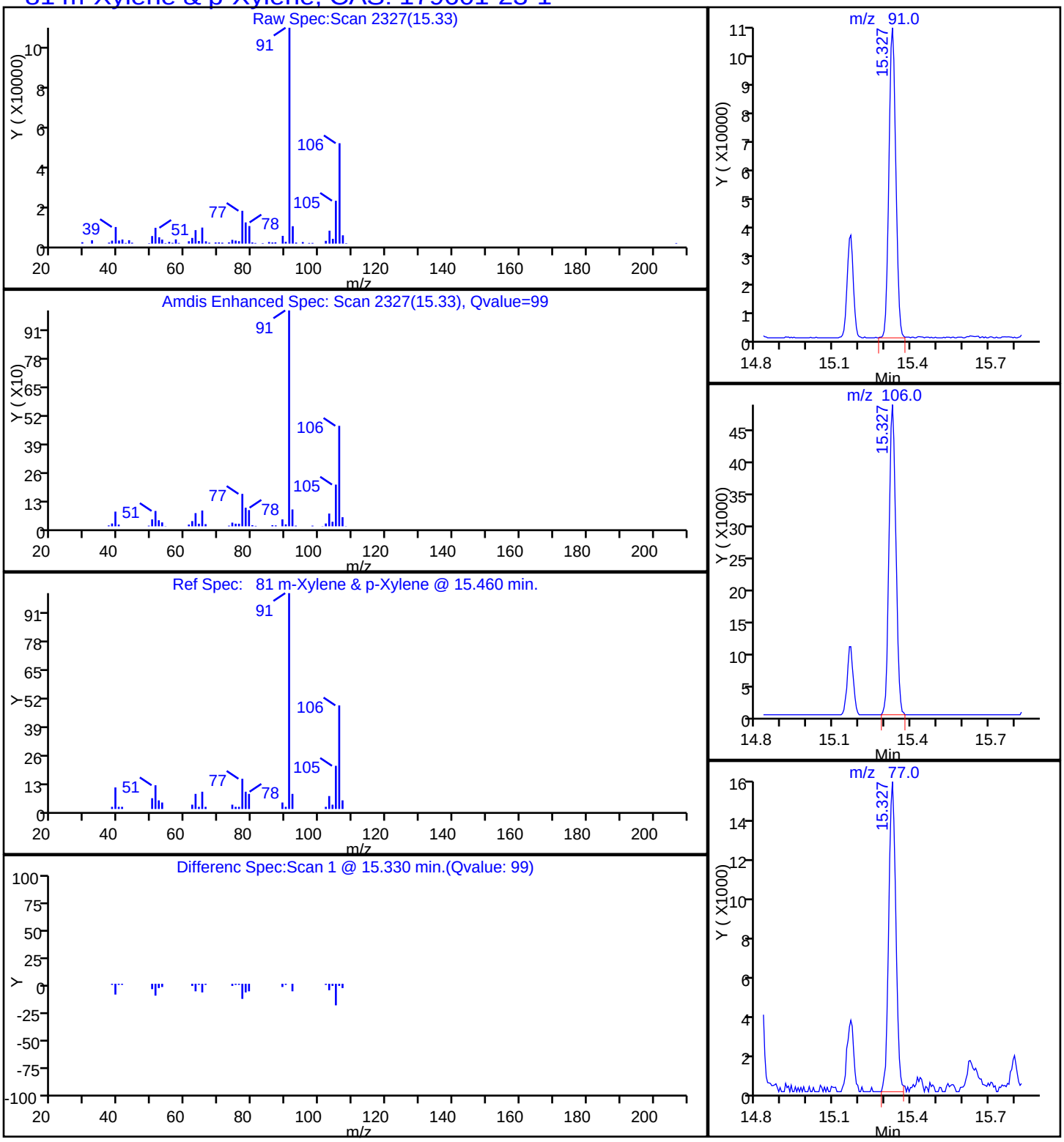






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Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3		
Client ID:	SG-212				
Operator ID:	007126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

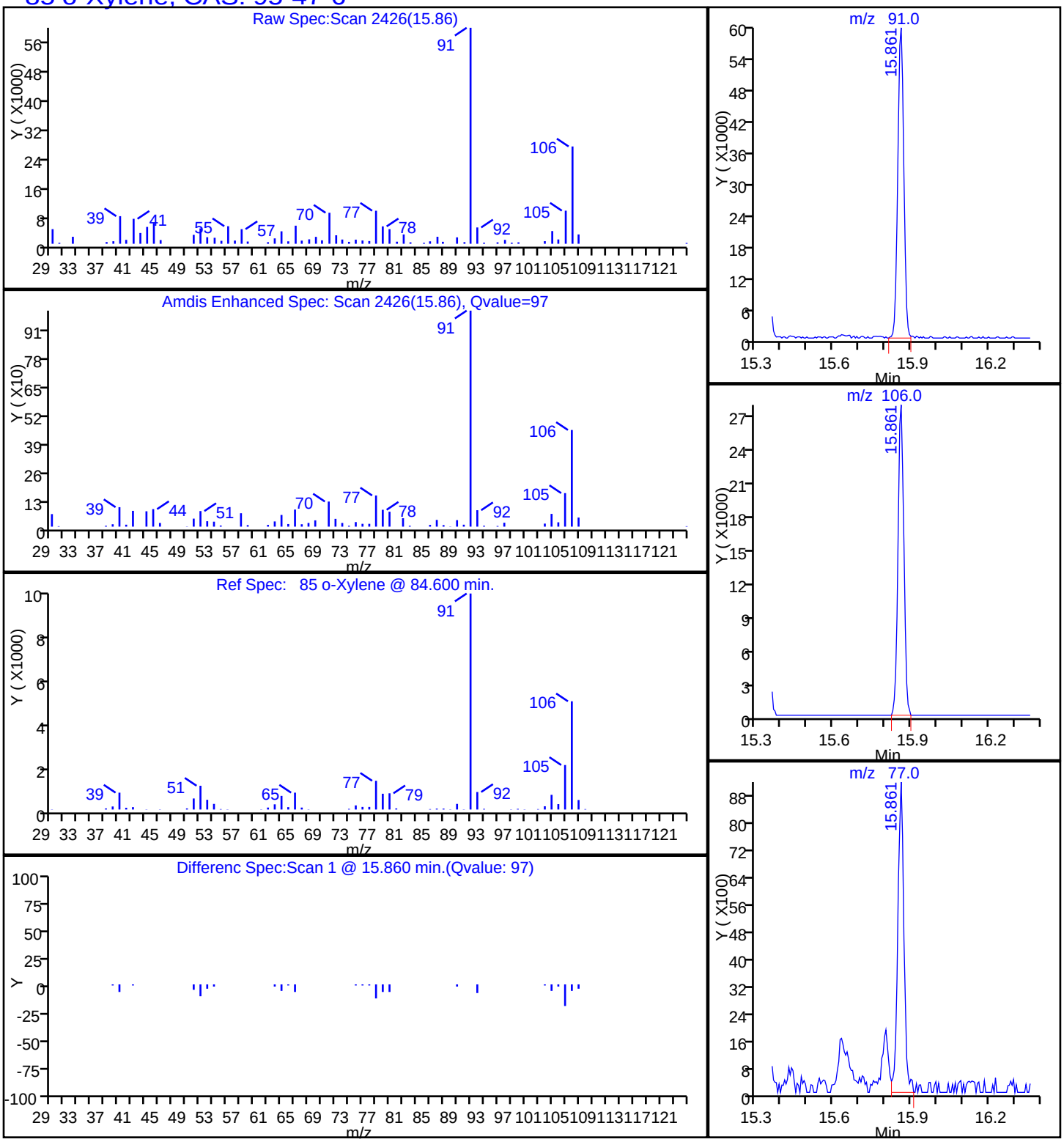
81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

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Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3		
Client ID:	SG-212				
Operator ID:	007126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

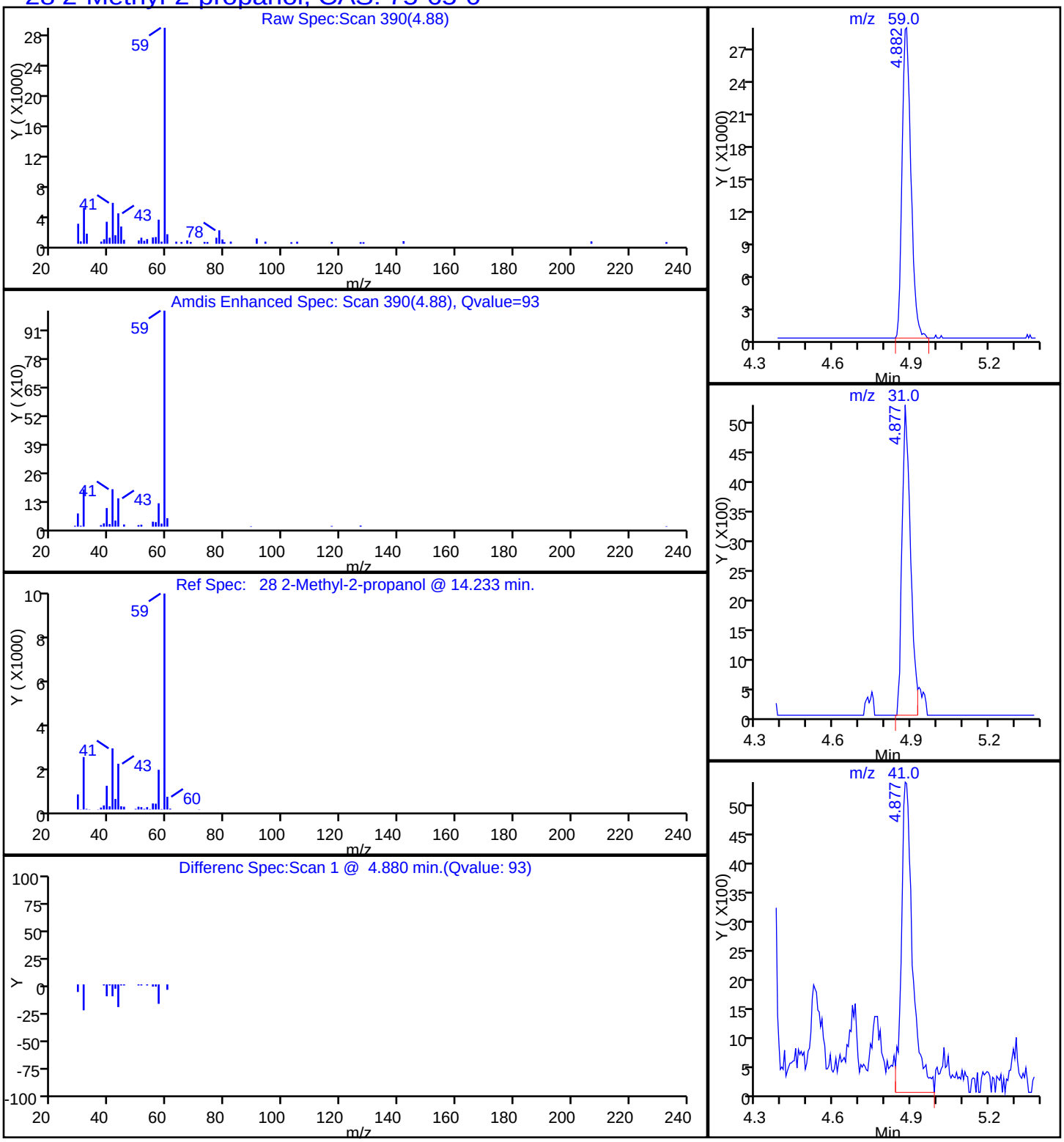
85 o-Xylene, CAS: 95-47-6



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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P104.D		
Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3
Client ID:	SG-212		
Operator ID:	007126	ALS Bottle#:	4 Worklist Smp#: 7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

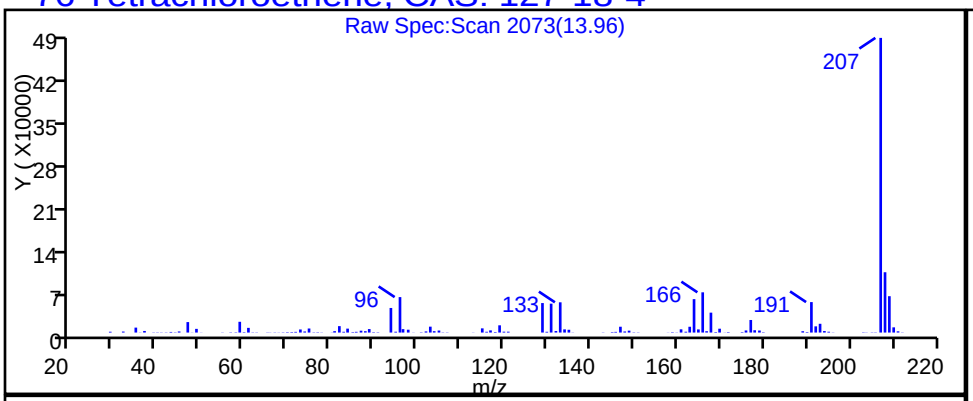
28 2-Methyl-2-propanol, CAS: 75-65-0

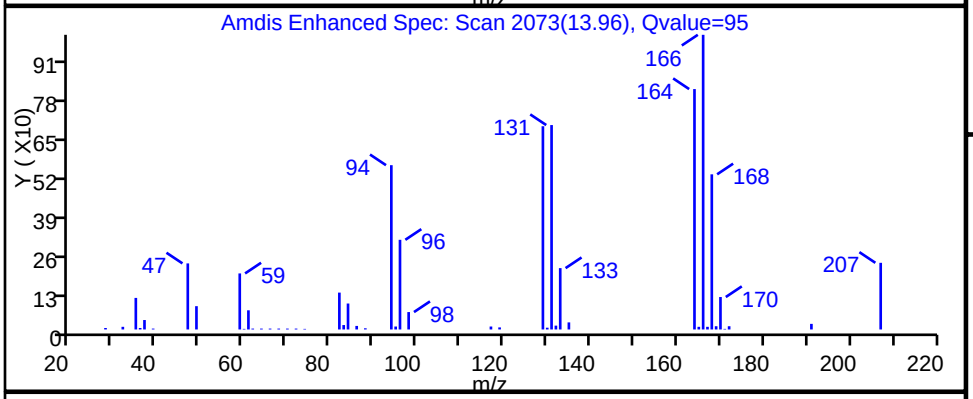


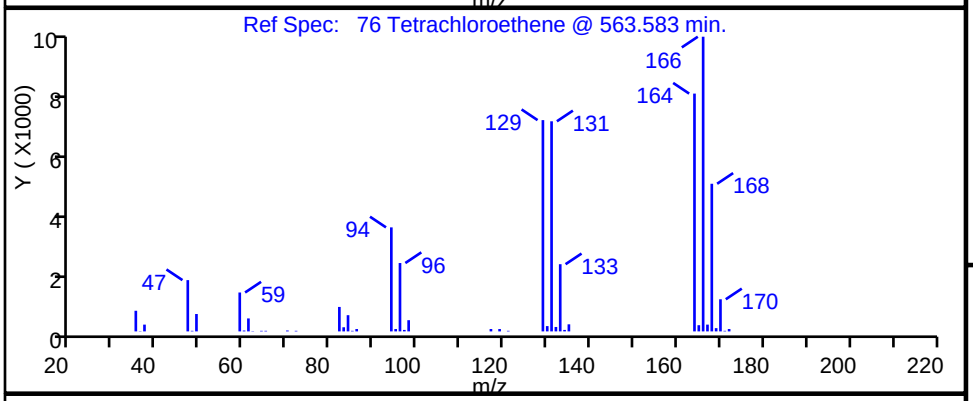
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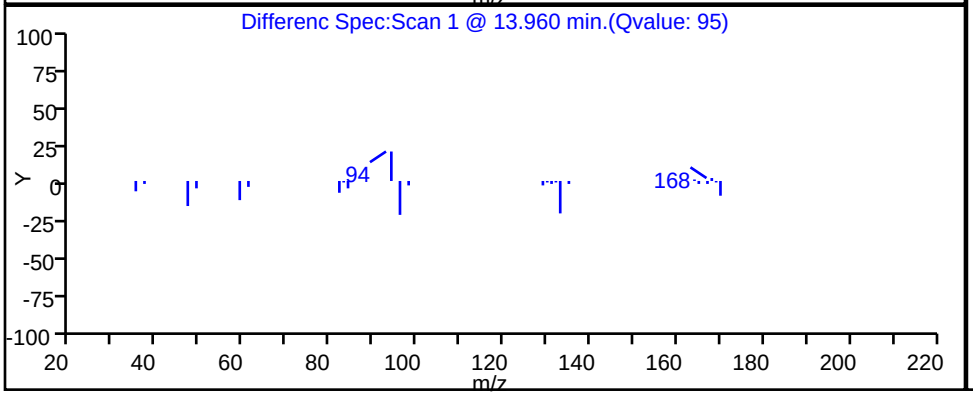
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Client ID: SG-212
Operator ID: 007126 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.5700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

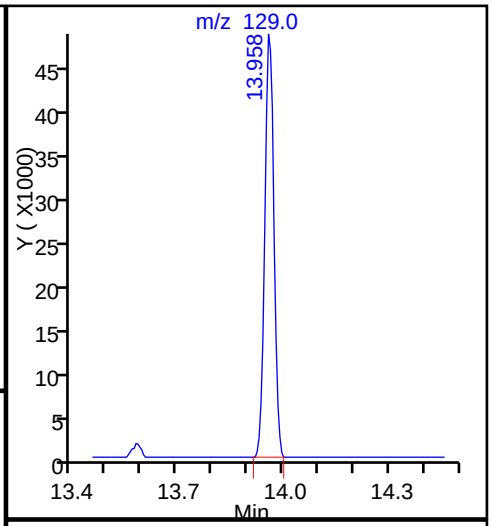
76 Tetrachloroethene, CAS: 127-18-4

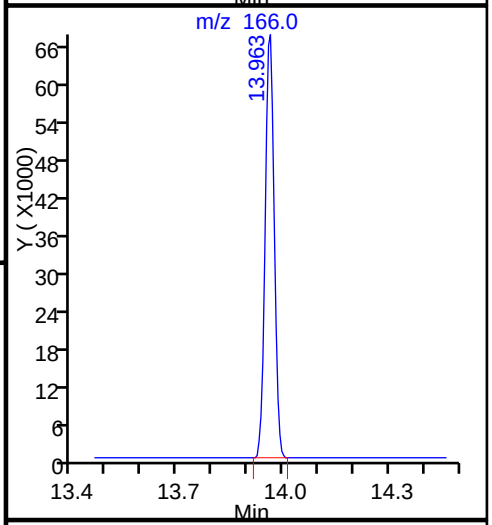


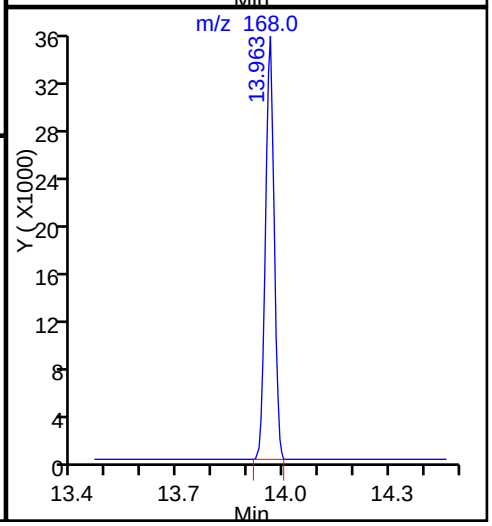








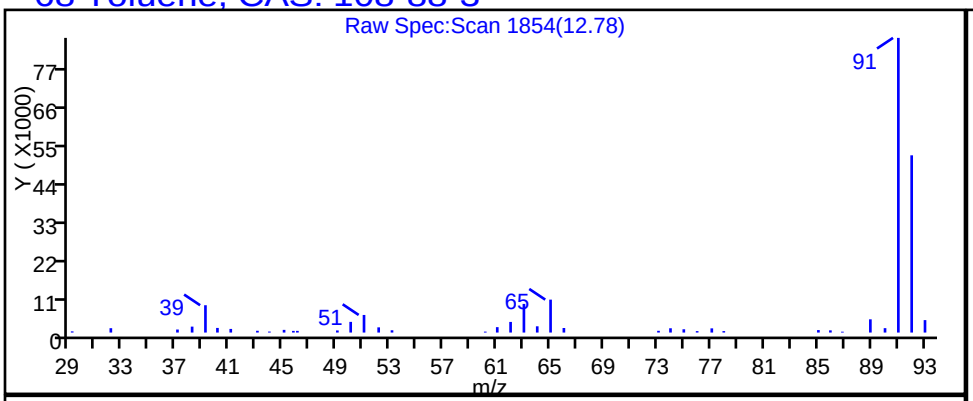


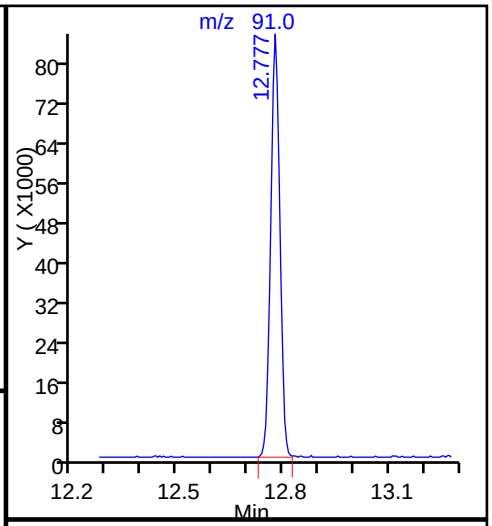


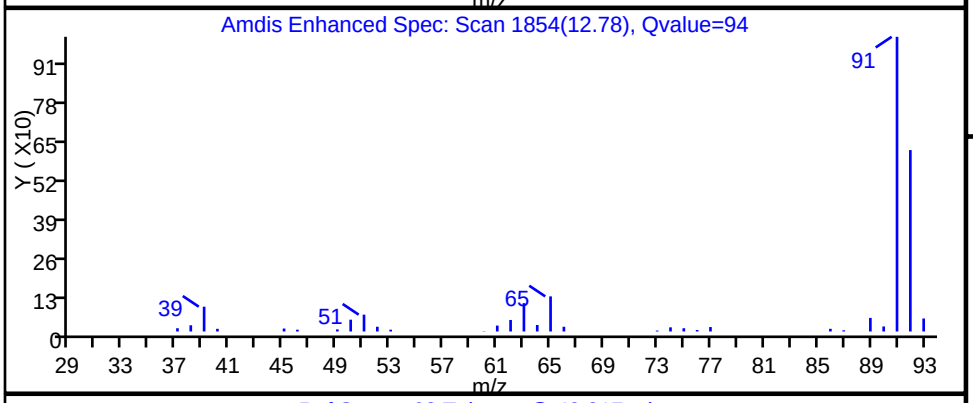
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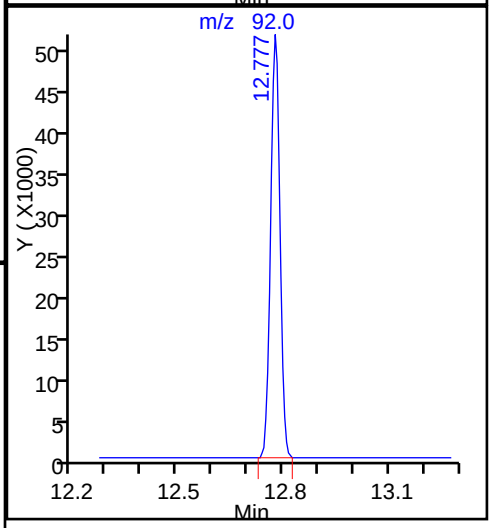
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P104.D				
Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME		
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3		
Client ID:	SG-212				
Operator ID:	007126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

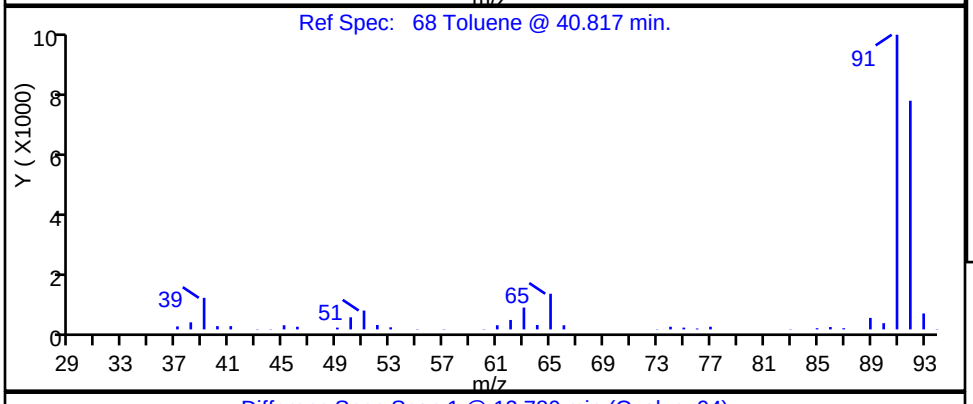
68 Toluene, CAS: 108-88-3

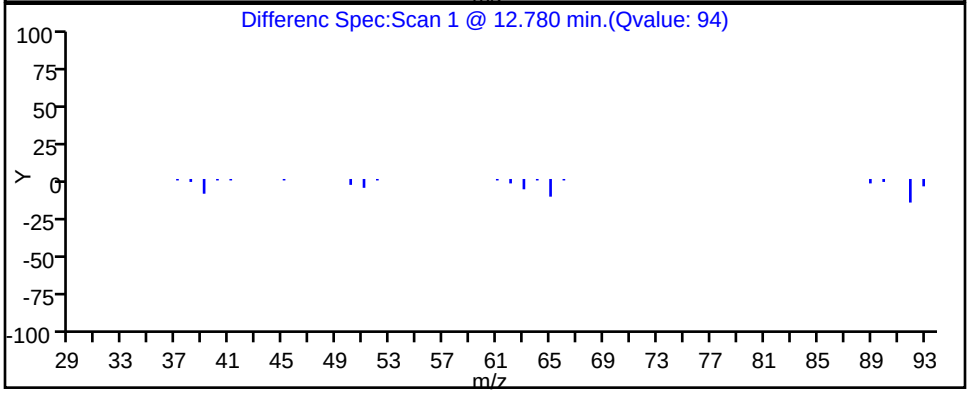






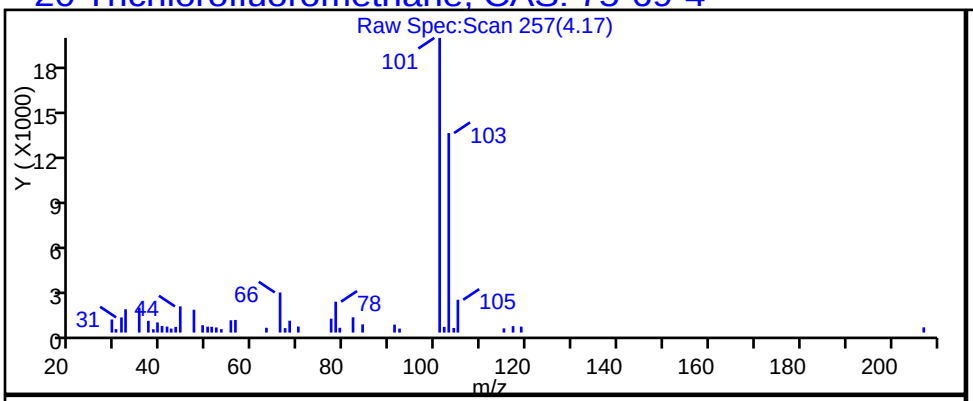


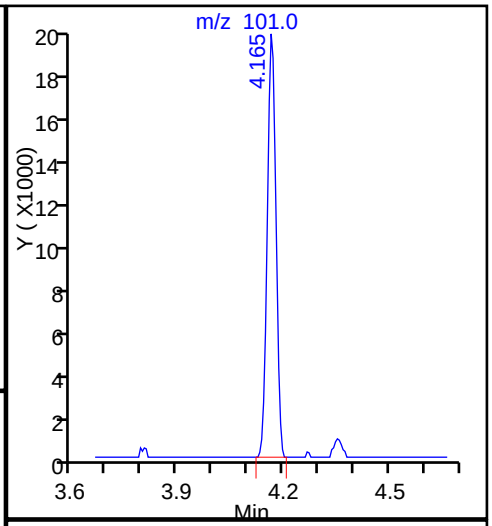


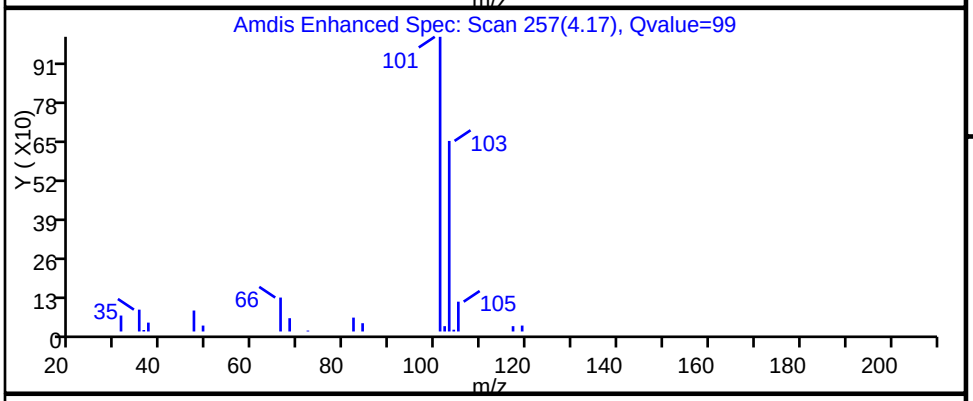


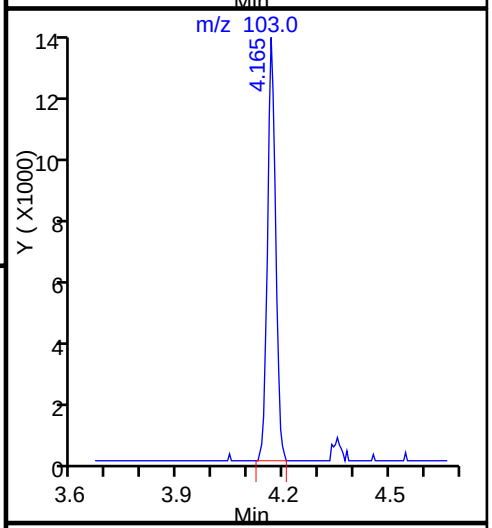
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P104.D
Injection Date: 01-Sep-2016 14:22:30 Instrument ID: ME
Lims ID: 140-5720-A-3 Lab Sample ID: 140-5720-3
Client ID: SG-212
Operator ID: 007126 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.5700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

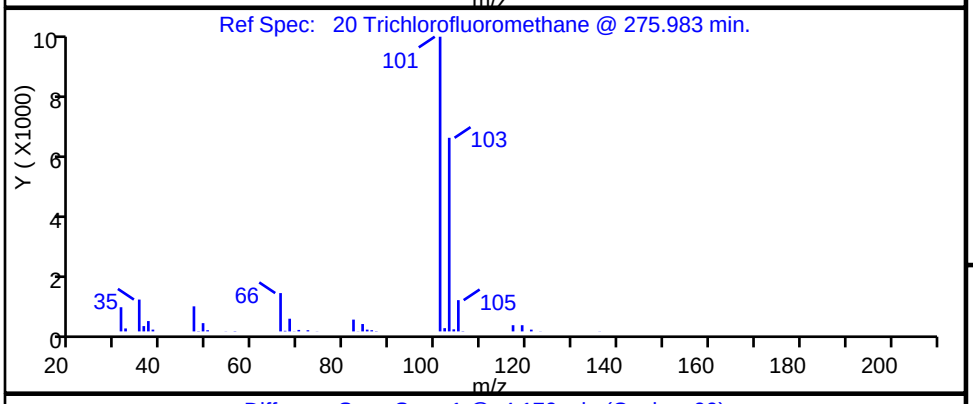
20 Trichlorofluoromethane, CAS: 75-69-4

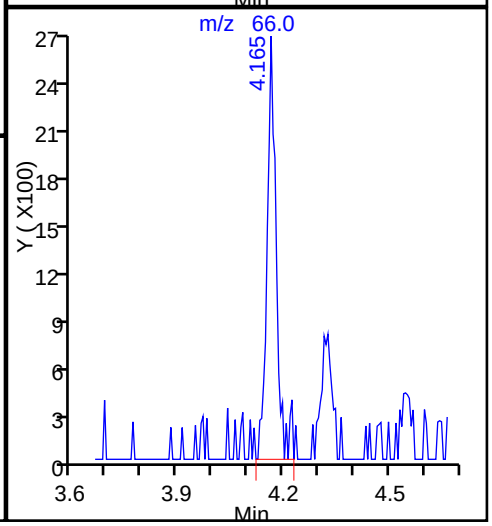


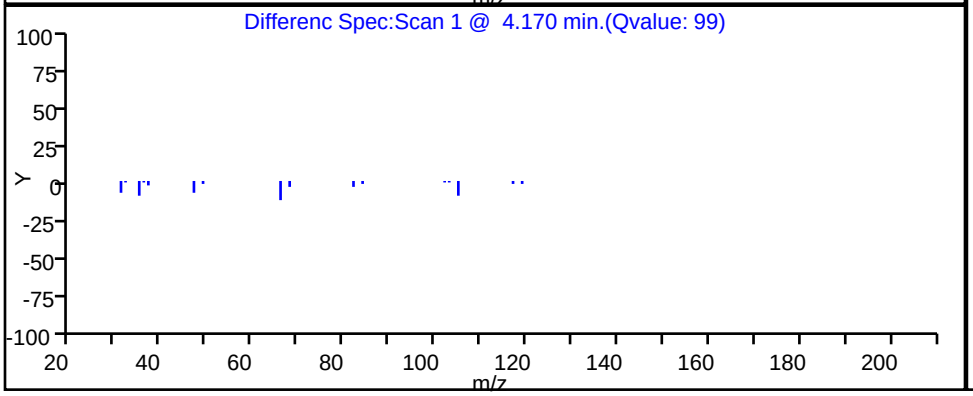












Manual Integration/User Assign Peak Report

TestAmerica Knoxville

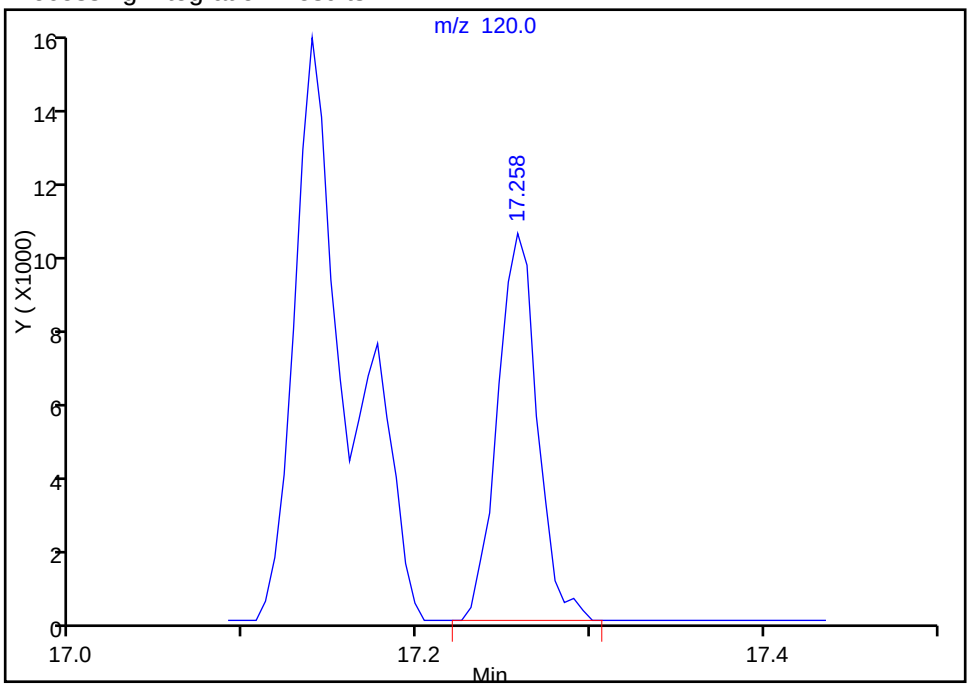
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Injection Date:	01-Sep-2016 14:22:30	Instrument ID:	ME		
Lims ID:	140-5720-A-3	Lab Sample ID:	140-5720-3		
Client ID:	SG-212				
Operator ID:	007126	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.5700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

92 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

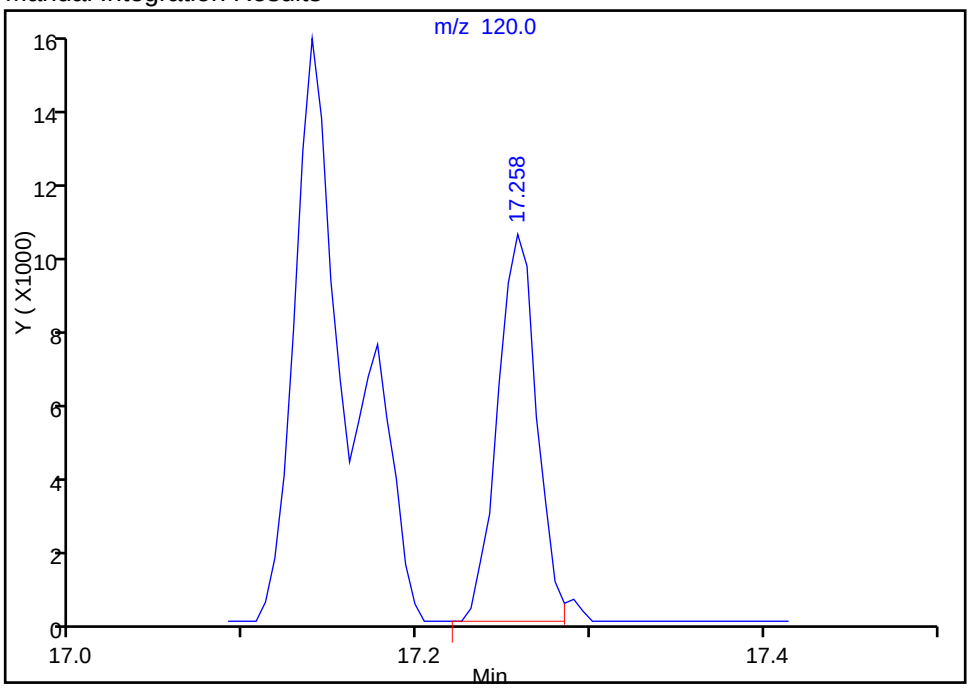
Processing Integration Results

RT: 17.26
Area: 16768
Amount: 0.092008
Amount Units: ppb v/v



Manual Integration Results

RT: 17.26
Area: 16489
Amount: 0.090477
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 01-Sep-2016 16:01:38

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.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B Lab Sample ID: 140-5720-4

Matrix: Air Lab File ID: EI01P105.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: Dilution Factor: 1.42

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	0.97		0.28	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.28	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.28	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.28	
75-34-3	1,1-Dichloroethane	98.96	ND		0.28	
75-35-4	1,1-Dichloroethene	96.94	ND		0.28	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.28	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.28	
106-93-4	1,2-Dibromoethane	187.87	ND		0.28	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.28	
107-06-2	1,2-Dichloroethane	98.96	ND		0.28	
78-87-5	1,2-Dichloropropane	112.99	ND		0.28	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.28	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.38		0.28	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.28	
106-46-7	1,4-Dichlorobenzene	147.00	19		0.28	
123-91-1	1,4-Dioxane	88.11	ND		0.71	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.71	
78-93-3	2-Butanone	72.11	16		1.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.71	
71-43-2	Benzene	78.11	0.43		0.28	
100-44-7	Benzyl chloride	126.58	ND		0.57	
75-27-4	Bromodichloromethane	163.83	0.28		0.28	
75-25-2	Bromoform	252.75	ND		0.28	
74-83-9	Bromomethane	94.94	ND		0.28	
56-23-5	Carbon tetrachloride	153.81	ND		0.14	
108-90-7	Chlorobenzene	112.56	ND		0.28	
75-00-3	Chloroethane	64.52	ND		0.28	
67-66-3	Chloroform	119.38	3.2		0.28	
74-87-3	Chloromethane	50.49	ND		0.71	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.28	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.28	
110-82-7	Cyclohexane	84.16	ND		0.71	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B | Lab Sample ID: 140-5720-4

Matrix: Air | Lab File ID: EI01P105.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.28	
75-71-8	Dichlorodifluoromethane	120.91	0.36		0.28	
64-17-5	Ethanol	46.07	12		7.1	
100-41-4	Ethylbenzene	106.17	0.65		0.28	
87-68-3	Hexachlorobutadiene	260.76	ND		0.28	
110-54-3	Hexane	86.17	1.3		0.71	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.57	
75-09-2	Methylene Chloride	84.93	1.1		0.71	
179601-23-1	m-Xylene & p-Xylene	106.17	2.7		0.28	
95-47-6	o-Xylene	106.17	1.3		0.28	
100-42-5	Styrene	104.15	ND		0.28	
75-65-0	t-Butyl alcohol	74.12	2.1		1.1	
127-18-4	Tetrachloroethene	165.83	3.2		0.28	
108-88-3	Toluene	92.14	2.3		0.43	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.28	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.28	
79-01-6	Trichloroethene	131.39	ND		0.14	
75-69-4	Trichlorofluoromethane	137.37	0.56		0.28	
75-01-4	Vinyl chloride	62.50	ND		0.14	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B | Lab Sample ID: 140-5720-4

Matrix: Air | Lab File ID: EI01P105.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	5.3		1.5	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.9	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.5	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		2.2	
75-34-3	1,1-Dichloroethane	98.96	ND		1.1	
75-35-4	1,1-Dichloroethene	96.94	ND		1.1	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.1	
95-63-6	1,2,4-Trimethylbenzene	120.20	8.2		1.4	
106-93-4	1,2-Dibromoethane	187.87	ND		2.2	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.7	
107-06-2	1,2-Dichloroethane	98.96	ND		1.1	
78-87-5	1,2-Dichloropropane	112.99	ND		1.3	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.0	
108-67-8	1,3,5-Trimethylbenzene	120.20	1.9		1.4	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.7	
106-46-7	1,4-Dichlorobenzene	147.00	110		1.7	
123-91-1	1,4-Dioxane	88.11	ND		2.6	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		3.3	
78-93-3	2-Butanone	72.11	48		3.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.9	
71-43-2	Benzene	78.11	1.4		0.91	
100-44-7	Benzyl chloride	126.58	ND		2.9	
75-27-4	Bromodichloromethane	163.83	1.8		1.9	
75-25-2	Bromoform	252.75	ND		2.9	
74-83-9	Bromomethane	94.94	ND		1.1	
56-23-5	Carbon tetrachloride	153.81	ND		0.89	
108-90-7	Chlorobenzene	112.56	ND		1.3	
75-00-3	Chloroethane	64.52	ND		0.75	
67-66-3	Chloroform	119.38	16		1.4	
74-87-3	Chloromethane	50.49	ND		1.5	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.1	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.3	
110-82-7	Cyclohexane	84.16	ND		2.4	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B | Lab Sample ID: 140-5720-4

Matrix: Air | Lab File ID: EI01P105.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		2.4	
75-71-8	Dichlorodifluoromethane	120.91	1.8		1.4	
64-17-5	Ethanol	46.07	22		13	
100-41-4	Ethylbenzene	106.17	2.8		1.2	
87-68-3	Hexachlorobutadiene	260.76	ND		3.0	
110-54-3	Hexane	86.17	4.6		2.5	
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.0	
75-09-2	Methylene Chloride	84.93	3.8		2.5	
179601-23-1	m-Xylene & p-Xylene	106.17	12		1.2	
95-47-6	o-Xylene	106.17	5.6		1.2	
100-42-5	Styrene	104.15	ND		1.2	
75-65-0	t-Butyl alcohol	74.12	6.4		3.4	
127-18-4	Tetrachloroethene	165.83	22		1.9	
108-88-3	Toluene	92.14	8.6		1.6	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.1	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.3	
79-01-6	Trichloroethene	131.39	ND		0.76	
75-69-4	Trichlorofluoromethane	137.37	3.1		1.6	
75-01-4	Vinyl chloride	62.50	ND		0.36	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D
Lims ID: 140-5720-A-4
Client ID: SG-212 B
Sample Type: Client
Inject. Date: 01-Sep-2016 15:06:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Sample Info: 140-0003369-008
Misc. Info.: 140-5720-a-4@1.42
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 16:03:55 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:03:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.568	0.005	76	273768	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.811	0.005	94	1286308	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1198528	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	1016712	4.15	
8 Dichlorodifluoromethane	85	2.946	2.946	0.000	99	28856	0.1002	
9 Chloromethane	52	3.097	3.097	0.000	61	745	0.0403	7
17 Ethanol	31	3.782	3.777	0.005	99	63952	3.29	
20 Trichlorofluoromethane	101	4.170	4.165	0.005	98	43638	0.1566	
28 2-Methyl-2-propanol	59	4.888	4.877	0.011	94	67717	0.5974	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.942	0.005	93	5017	0.0279	
31 Methylene Chloride	84	5.120	5.103	0.017	78	26160	0.3046	
39 2-Butanone (MEK)	72	6.829	6.834	-0.005	95	182649	4.58	
40 Hexane	56	6.840	6.840	0.000	70	19522	0.3651	
44 Chloroform	83	7.589	7.584	0.005	97	206727	0.9058	
47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	94	69919	0.2733	
50 Cyclohexane	69	9.196	9.196	0.000	61	3756	0.0862	
51 Benzene	78	9.202	9.202	0.000	94	32252	0.1223	
52 Carbon tetrachloride	117	9.229	9.223	0.006	45	6584	0.0259	
56 Isooctane	57	10.043	10.037	0.006	79	19398	0.0633	
61 Dichlorobromomethane	83	10.841	10.835	0.006	68	17378	0.0777	
65 4-Methyl-2-pentanone (MIBK	43	11.892	11.887	0.005	90	17120	0.1656	
68 Toluene	91	12.777	12.777	0.000	94	184378	0.6414	
74 Chlorodibromomethane	129	13.586	13.586	0.000	91	3230	0.0174	
76 Tetrachloroethene	129	13.963	13.963	0.000	94	101829	0.9106	
79 Ethylbenzene	91	15.166	15.166	0.000	99	70778	0.1835	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	230436	0.7661	
84 Styrene	104	15.802	15.802	0.000	96	11676	0.0602	
85 o-Xylene	91	15.861	15.861	0.000	98	115513	0.3659	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	90	19560	0.1069	
96 1,2,4-Trimethylbenzene	105	17.727	17.732	-0.005	98	158547	0.4679	
100 1,4-Dichlorobenzene	146	18.110	18.110	0.000	93	1043727	5.22	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

40MXISSURP_00001	Amount Added:	40.00	Units: mL	Run Reagent

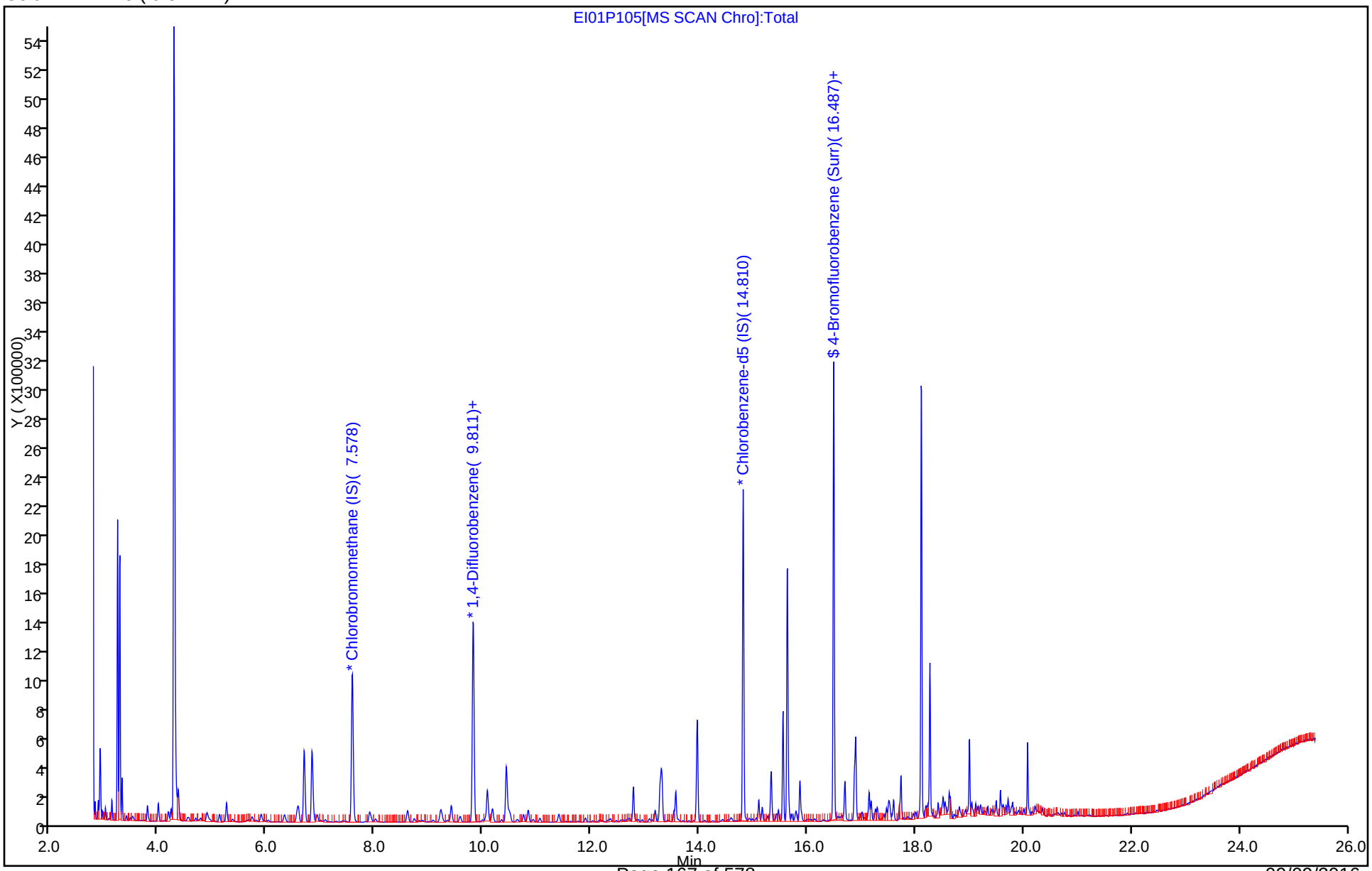
Report Date: 01-Sep-2016 16:03:57 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D

Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4	Worklist Smp#:	8
Client ID:	SG-212 B				
Purge Vol:	500.000 mL	Dil. Factor:	1.4200	ALS Bottle#:	5
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

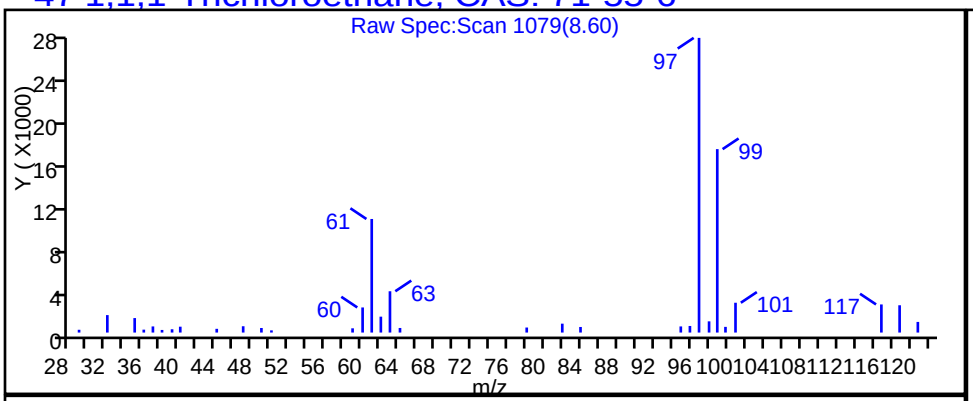
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D				
Lims ID:	140-5720-A-4				
Client ID:	SG-212 B				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 15:06:30	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Sample Info:	140-0003369-008				
Misc. Info.:	140-5720-a-4@1.42				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 16:03:55	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
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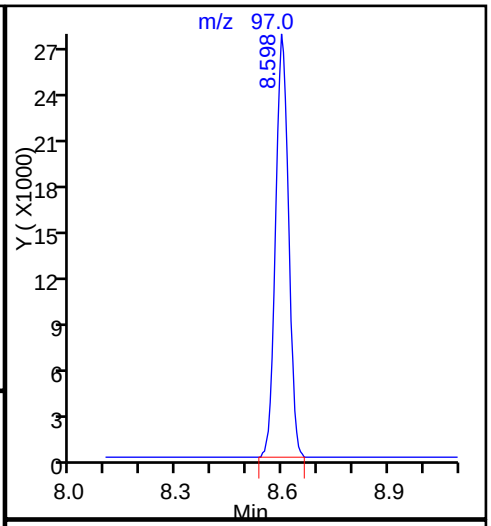
First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:03:55

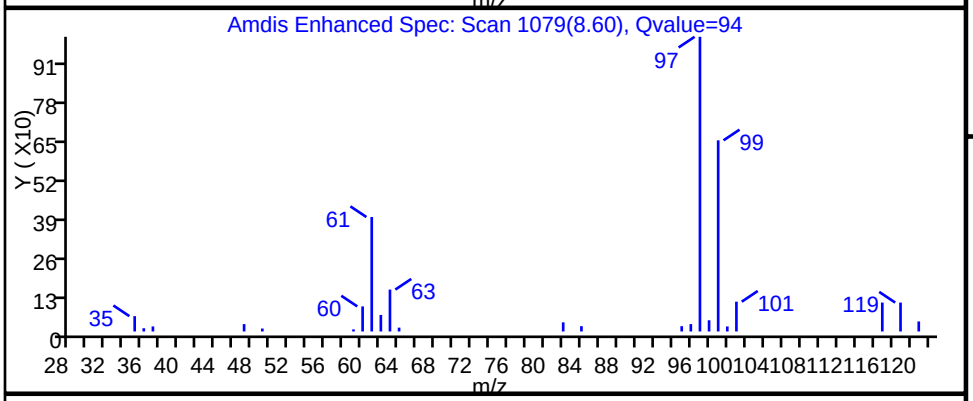
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.15	103.64

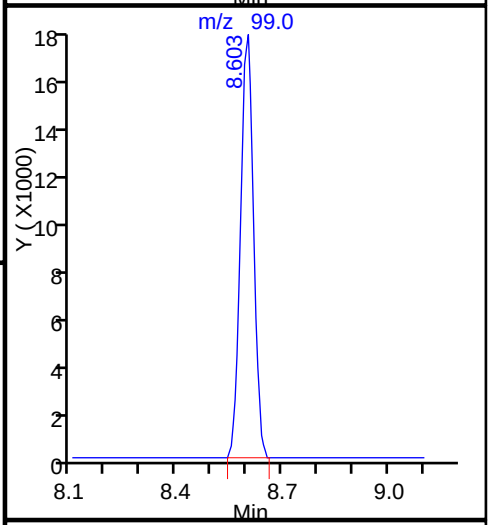
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Injection Date: 01-Sep-2016 15:06:30 Instrument ID: ME
Lims ID: 140-5720-A-4 Lab Sample ID: 140-5720-4
Client ID: SG-212 B
Operator ID: 007126 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

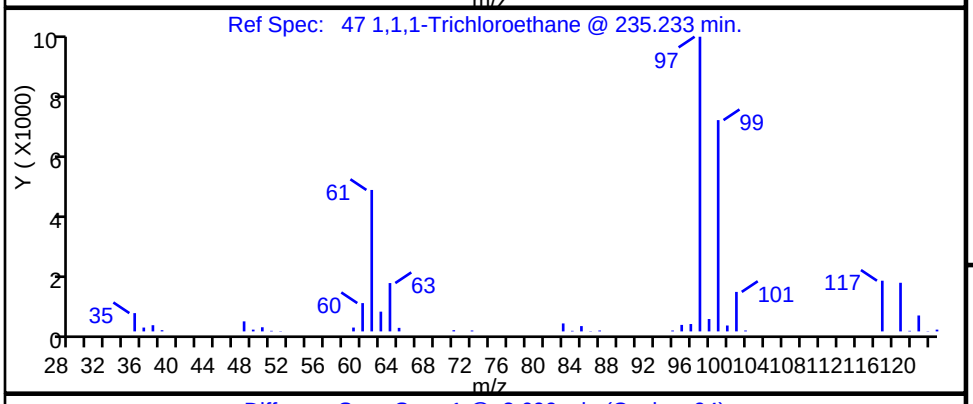
47 1,1,1-Trichloroethane, CAS: 71-55-6

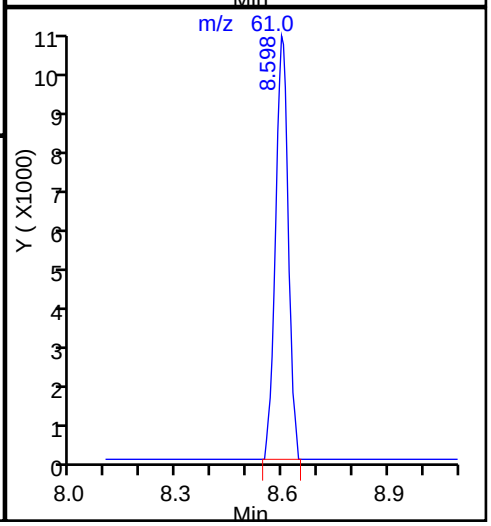


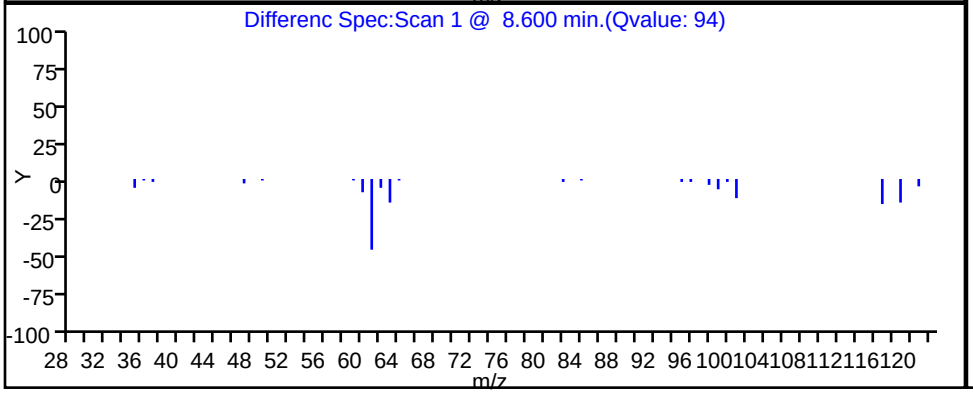








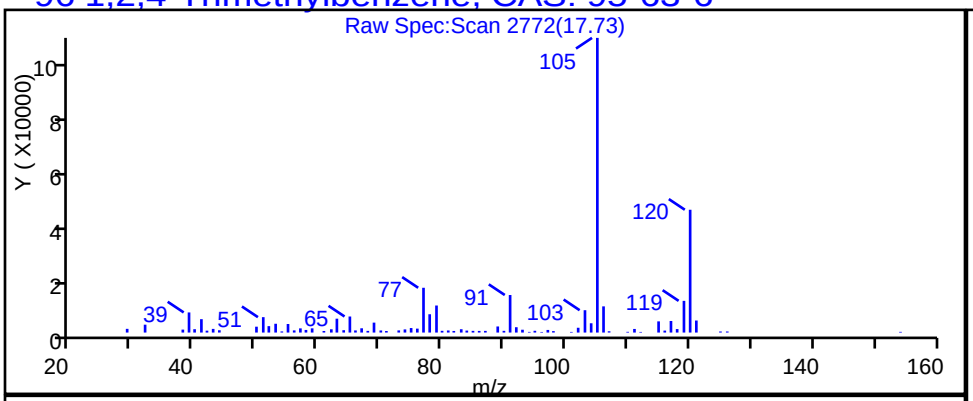


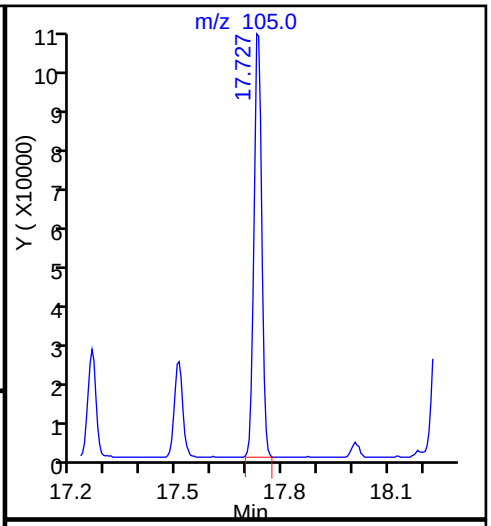


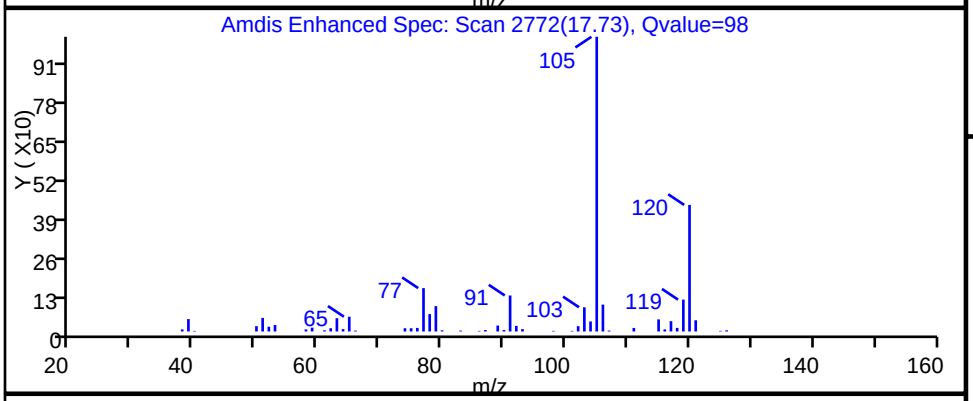
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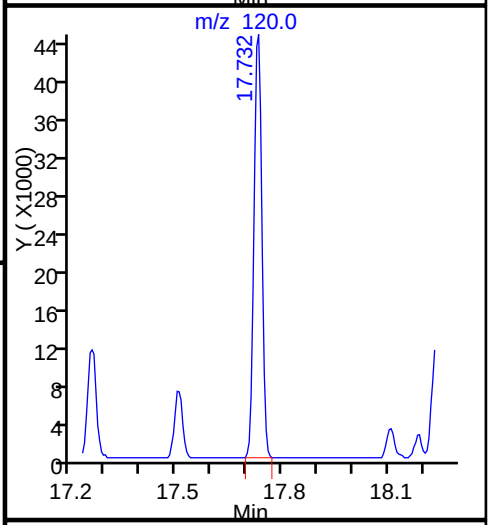
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Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4		
Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

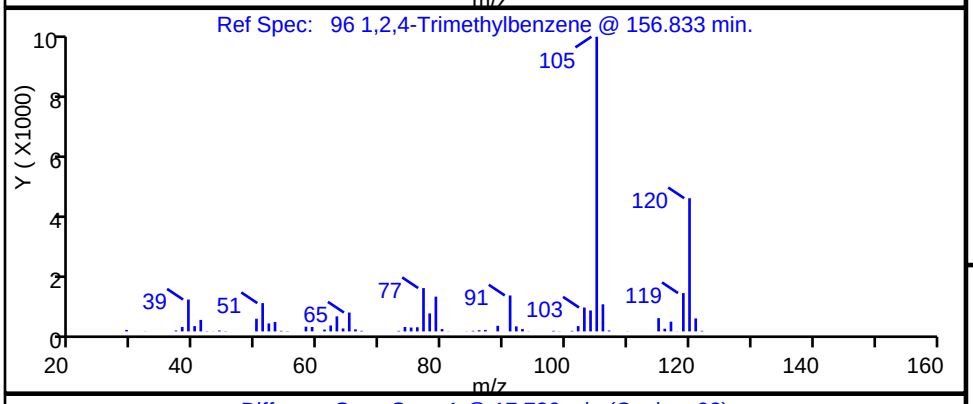
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

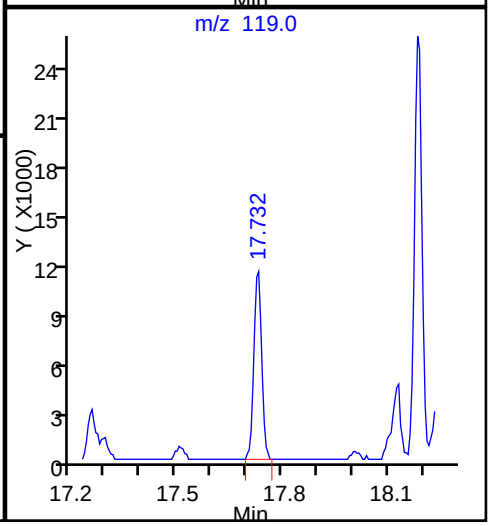


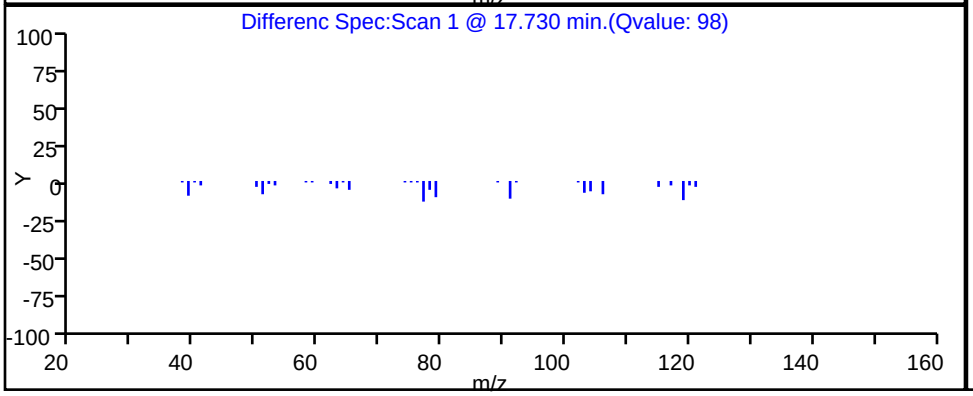








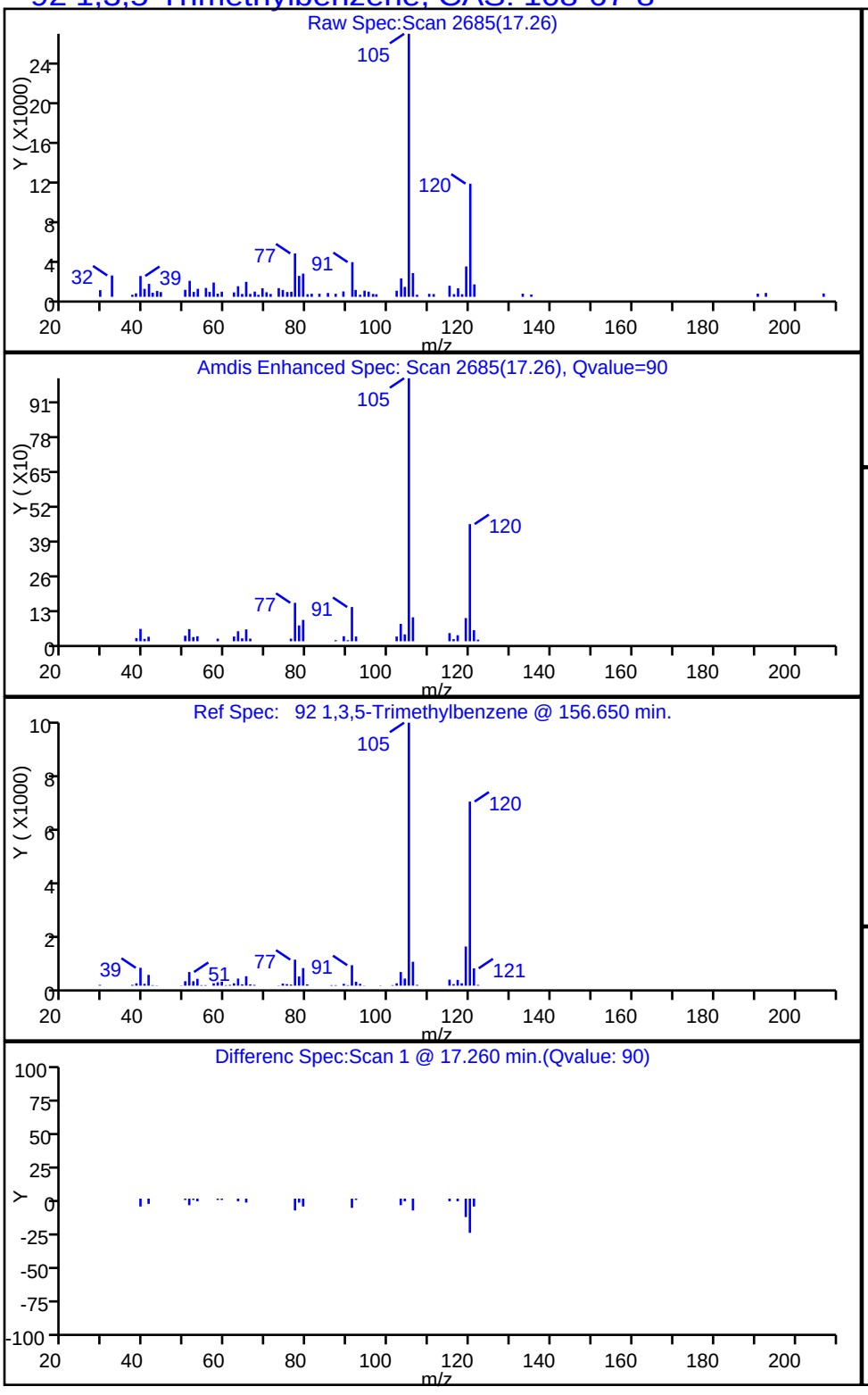


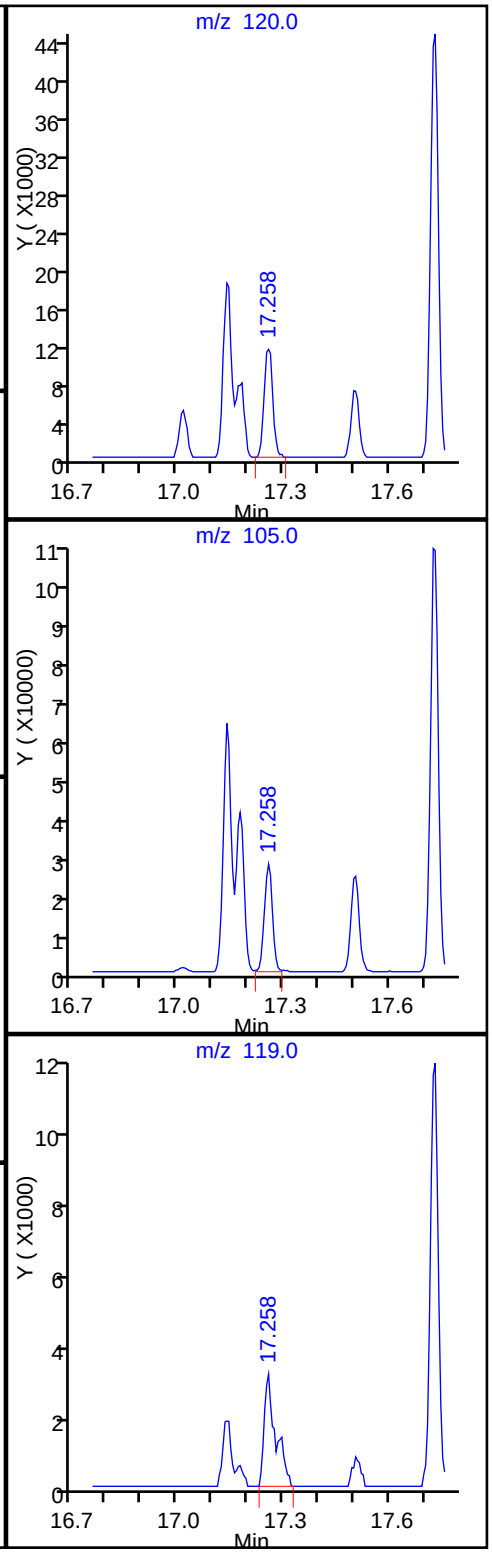


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Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4		
Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

92 1,3,5-Trimethylbenzene, CAS: 108-67-8





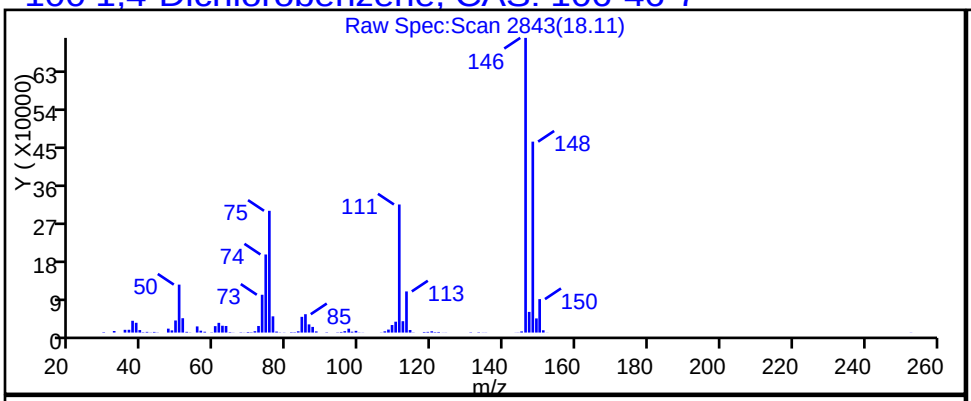
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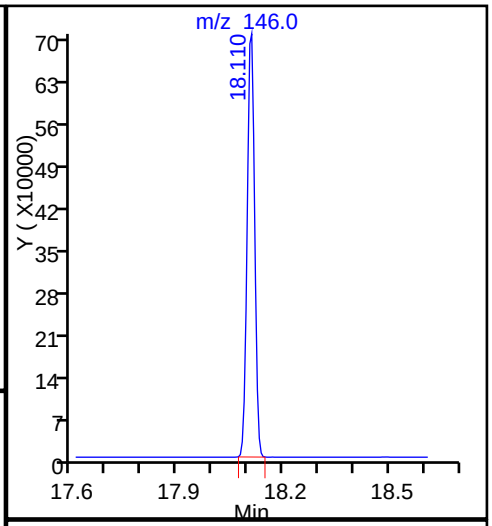
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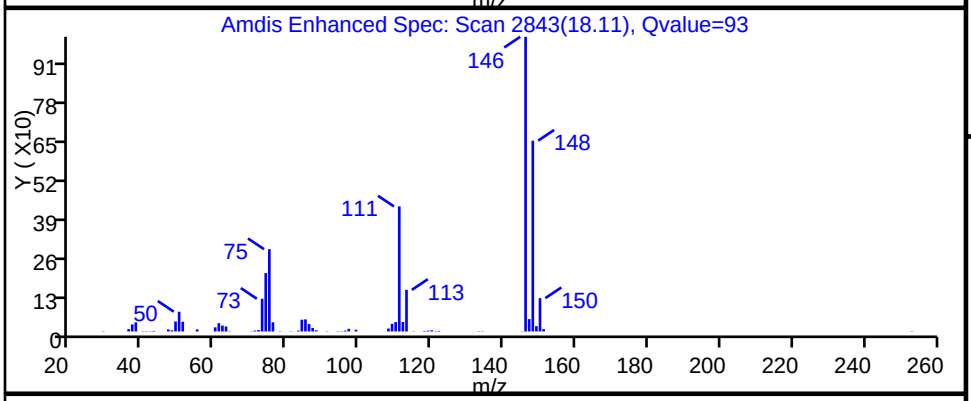
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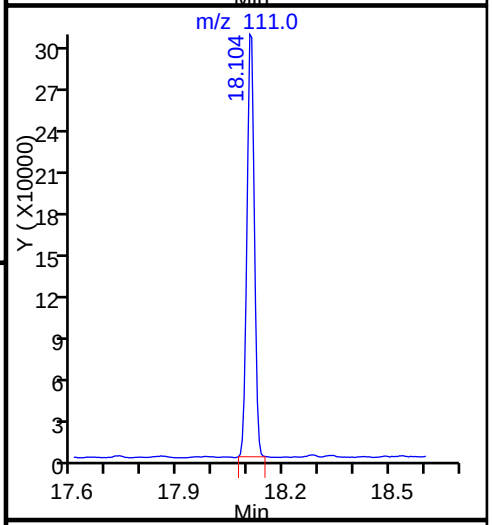
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Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
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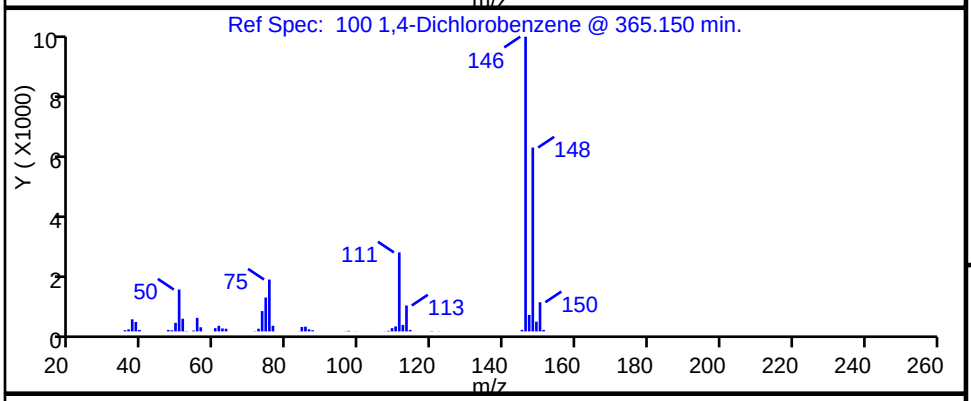
100 1,4-Dichlorobenzene, CAS: 106-46-7

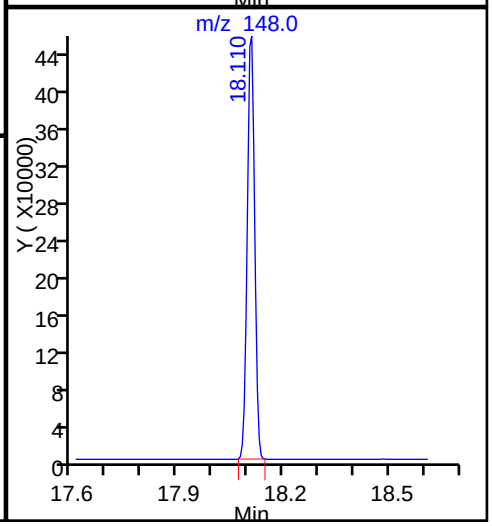


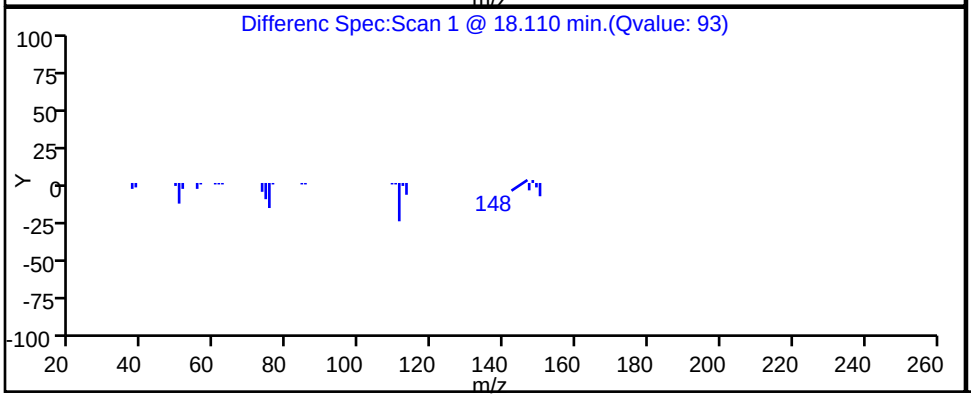








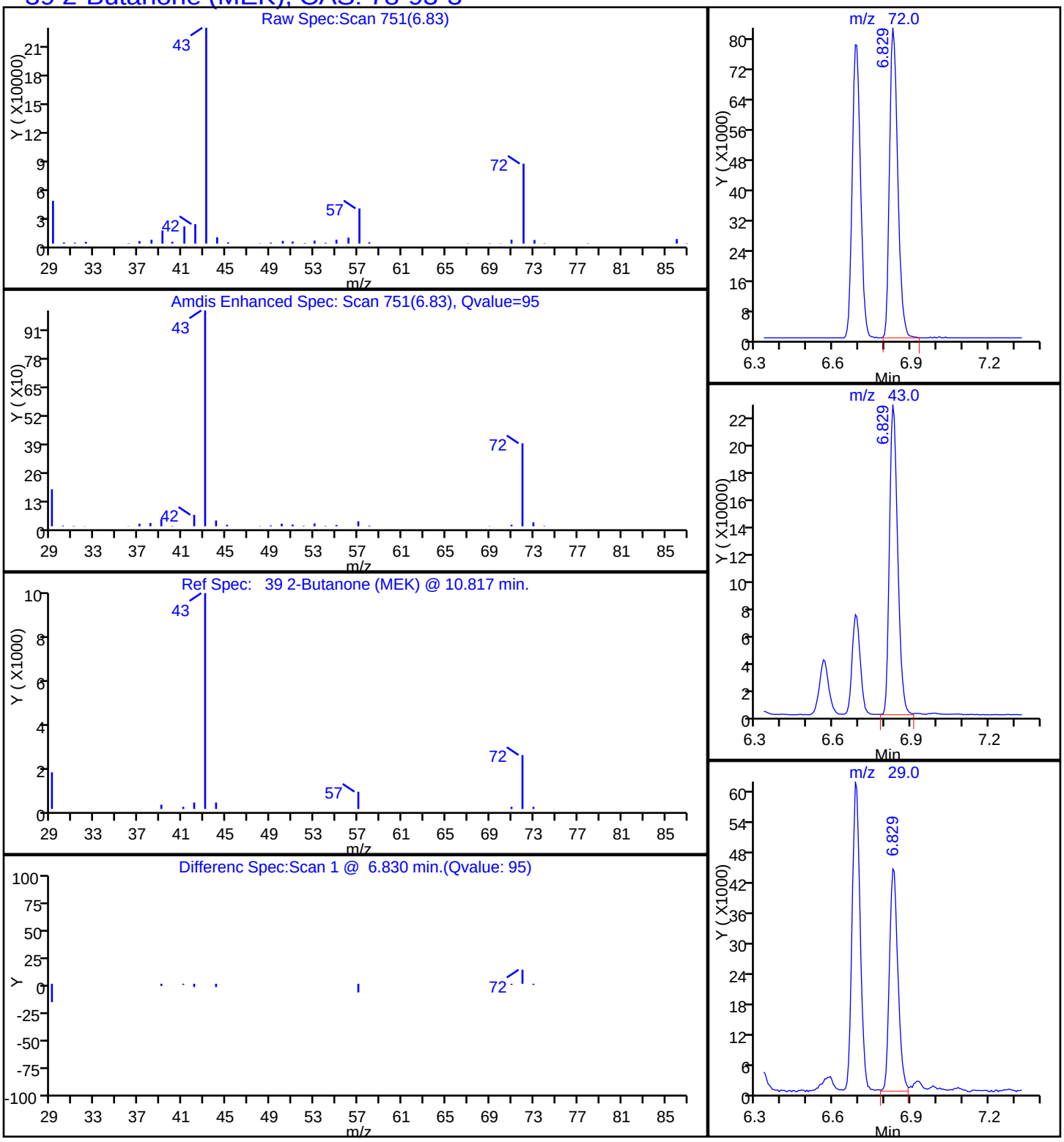




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Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4
Client ID:	SG-212 B		
Operator ID:	007126	ALS Bottle#:	5 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

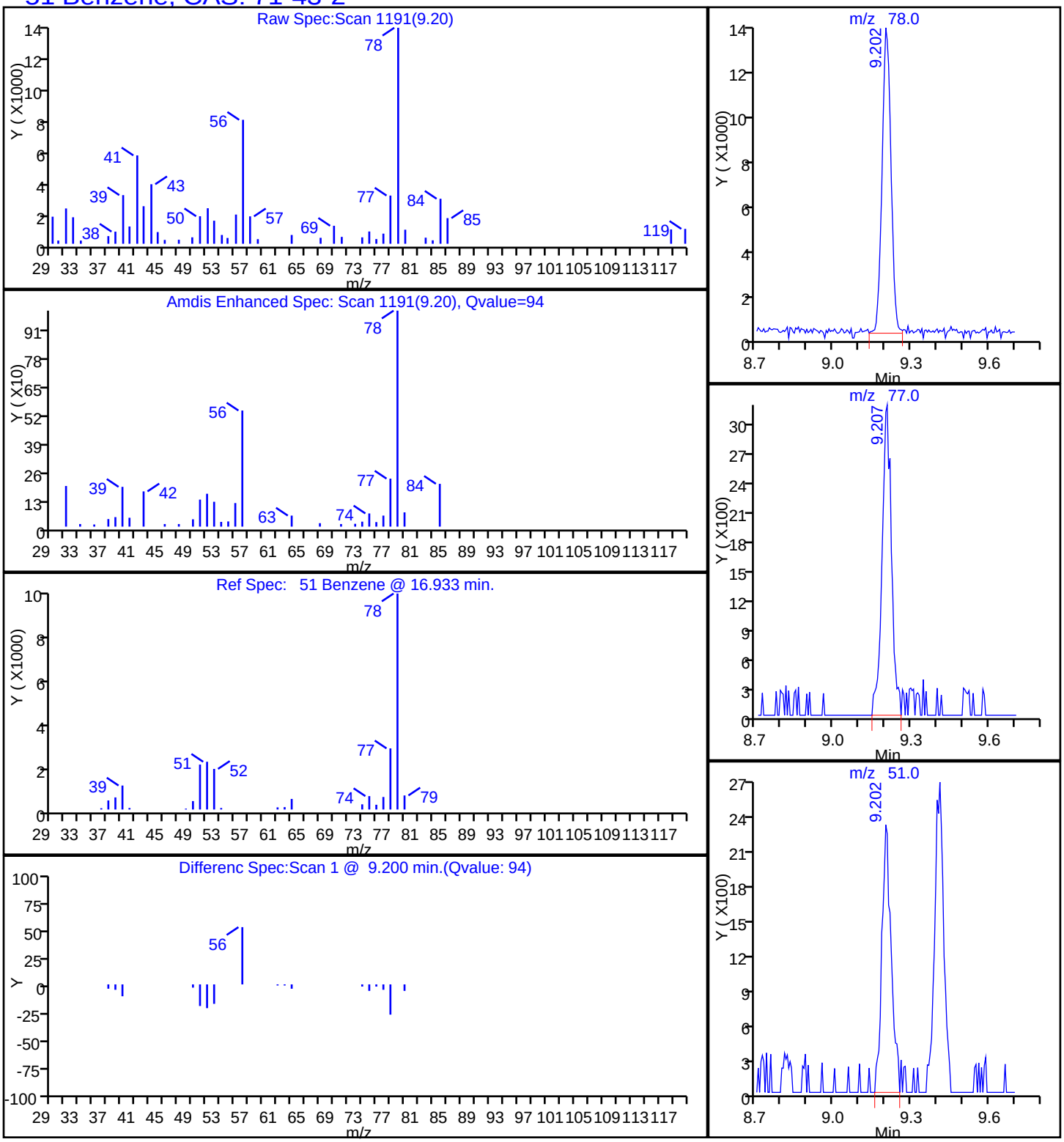
39 2-Butanone (MEK), CAS: 78-93-3



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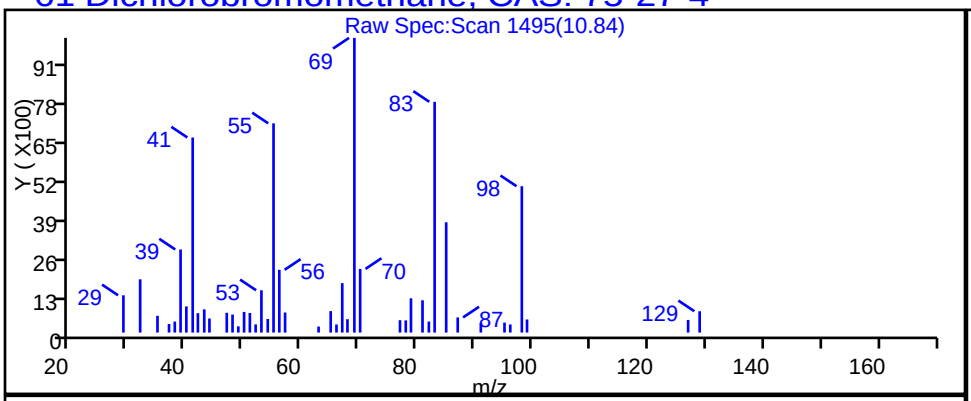
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Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

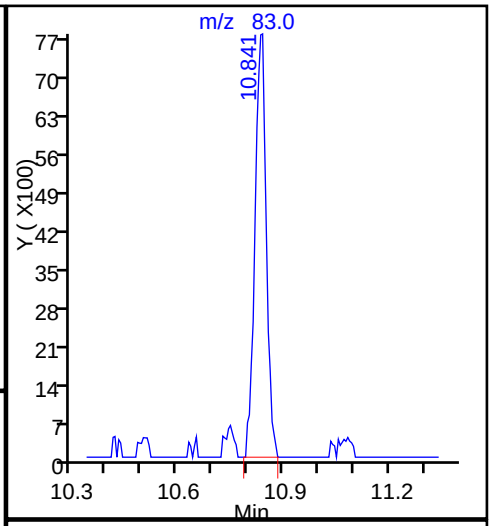
51 Benzene, CAS: 71-43-2

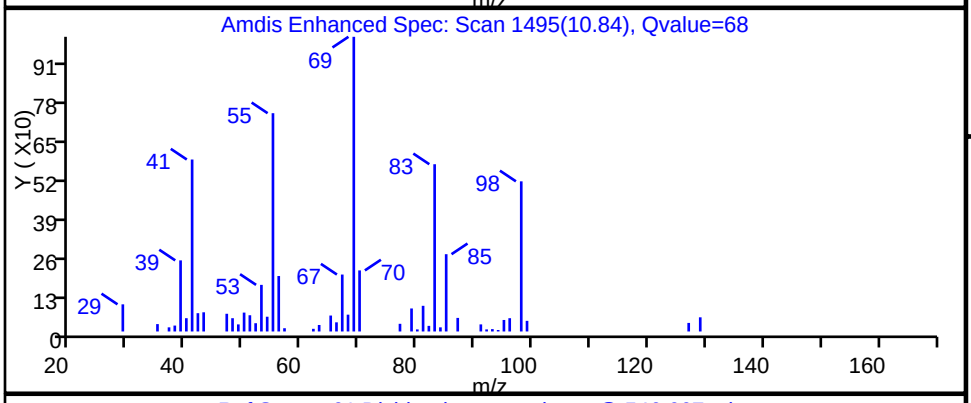


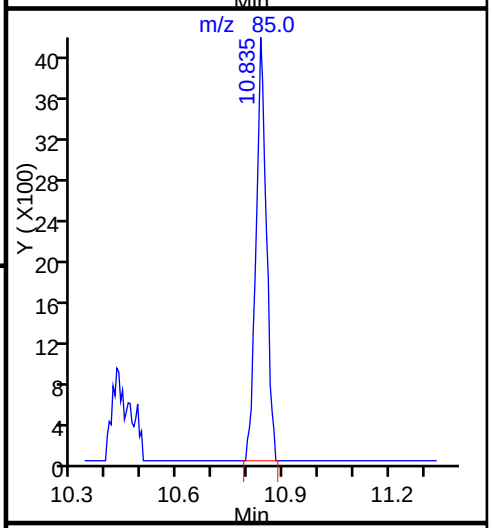
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Client ID: SG-212 B
Operator ID: 007126 ALS Bottle#: 5 Worklist Smp#: 8
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Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

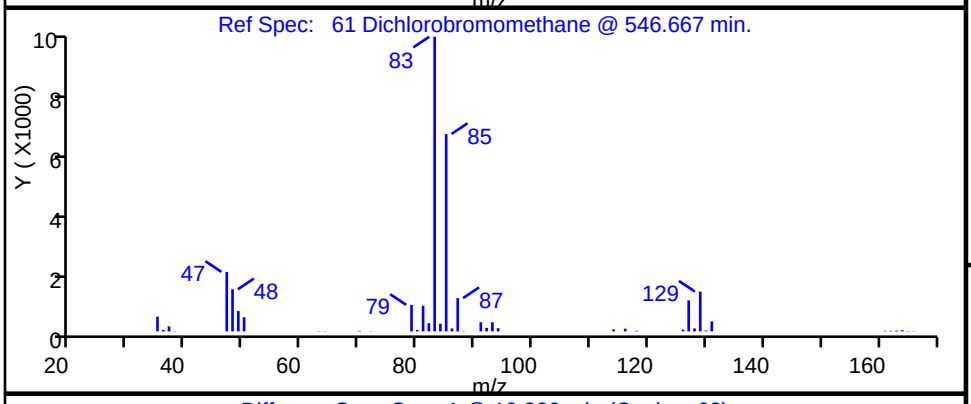
61 Dichlorobromomethane, CAS: 75-27-4

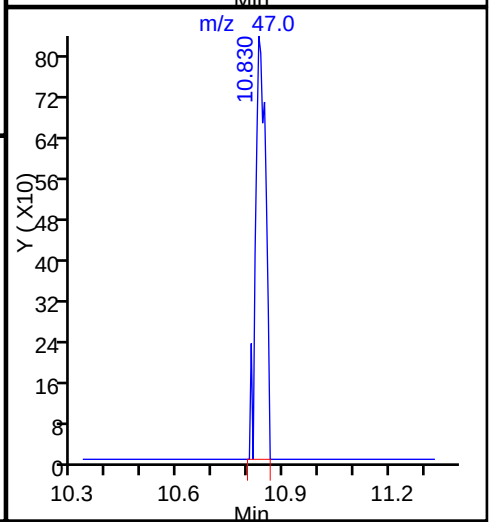


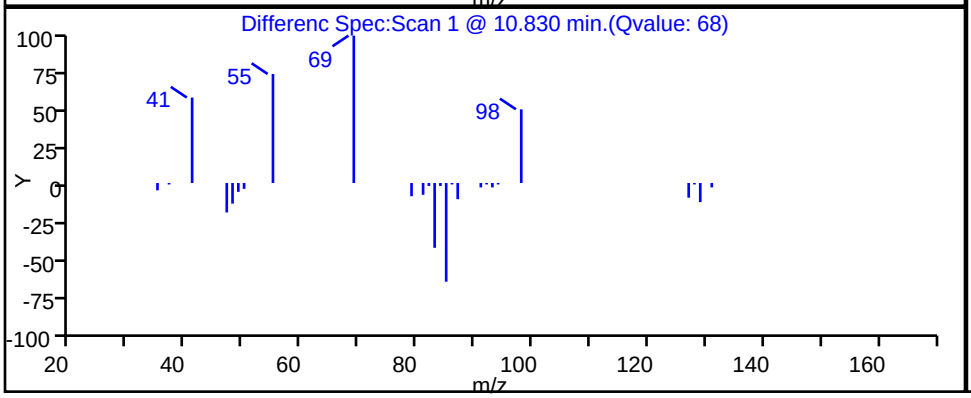






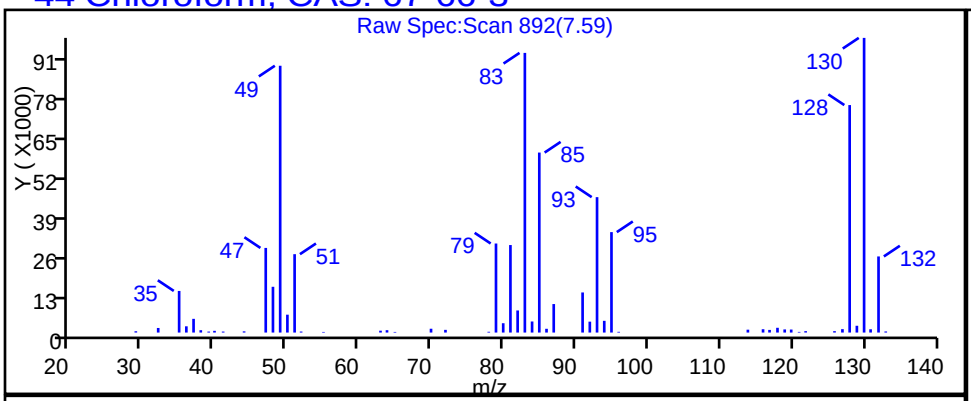


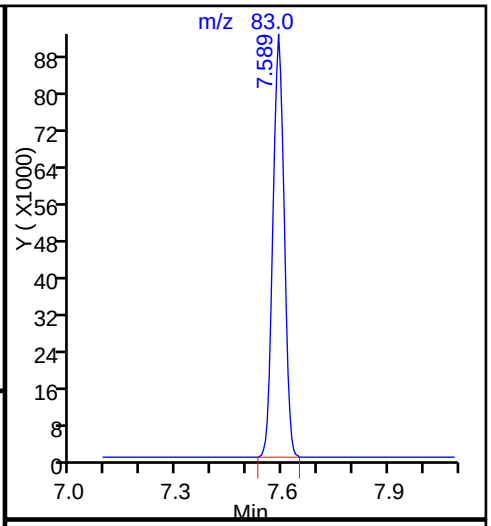


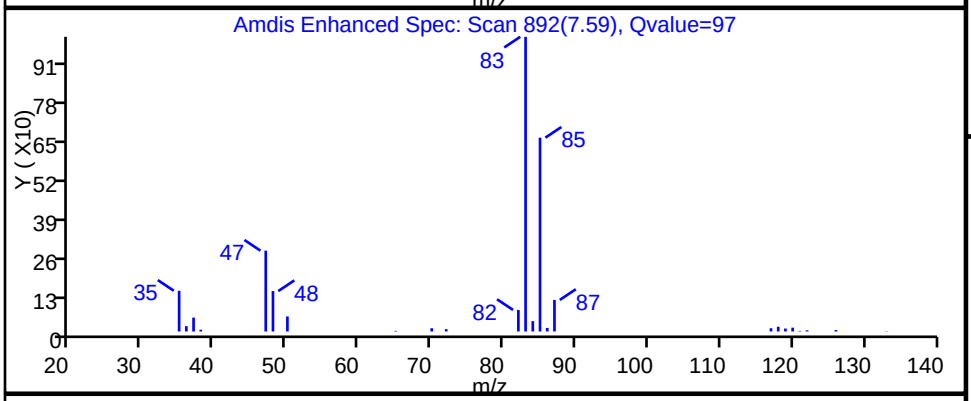


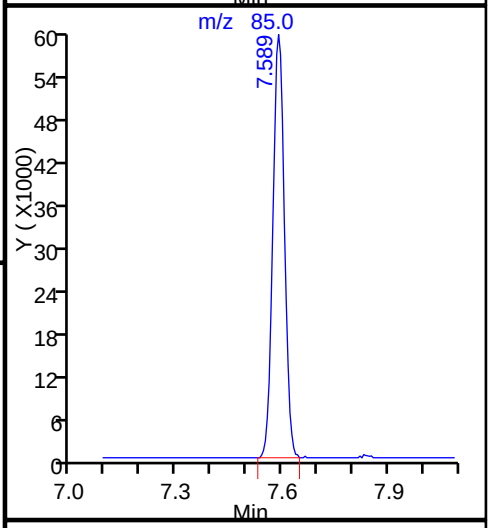
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Injection Date: 01-Sep-2016 15:06:30 Instrument ID: ME
Lims ID: 140-5720-A-4 Lab Sample ID: 140-5720-4
Client ID: SG-212 B
Operator ID: 007126 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

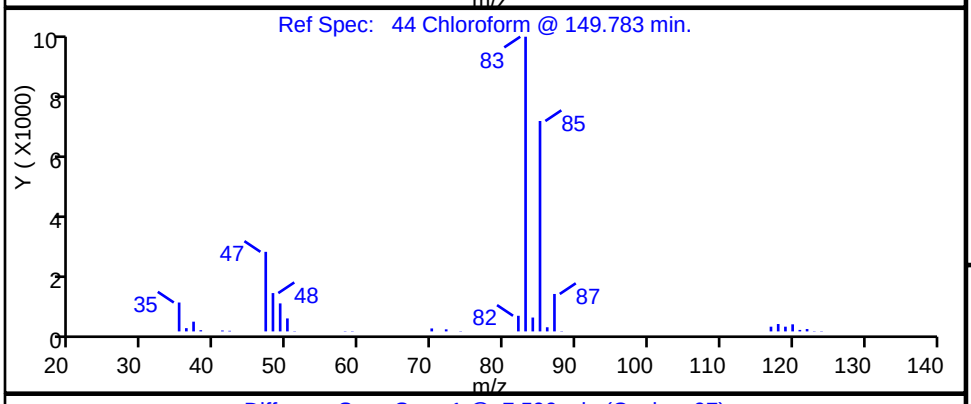
44 Chloroform, CAS: 67-66-3

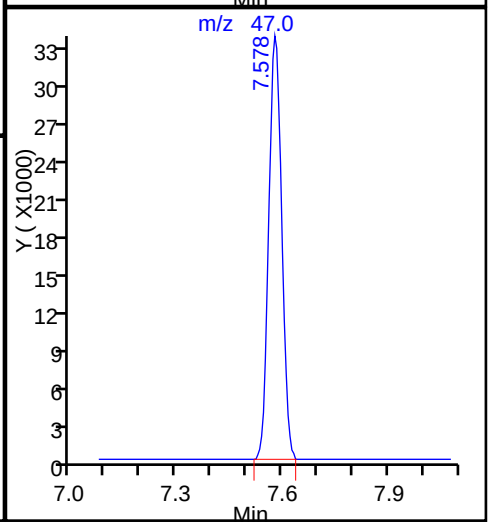


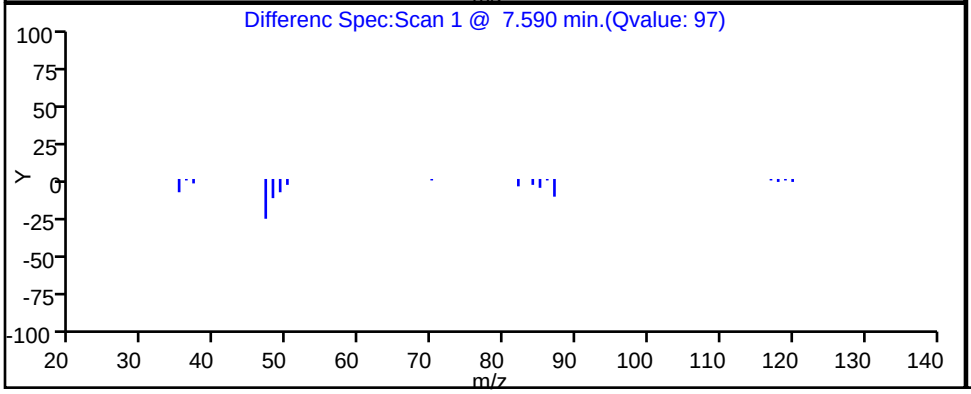








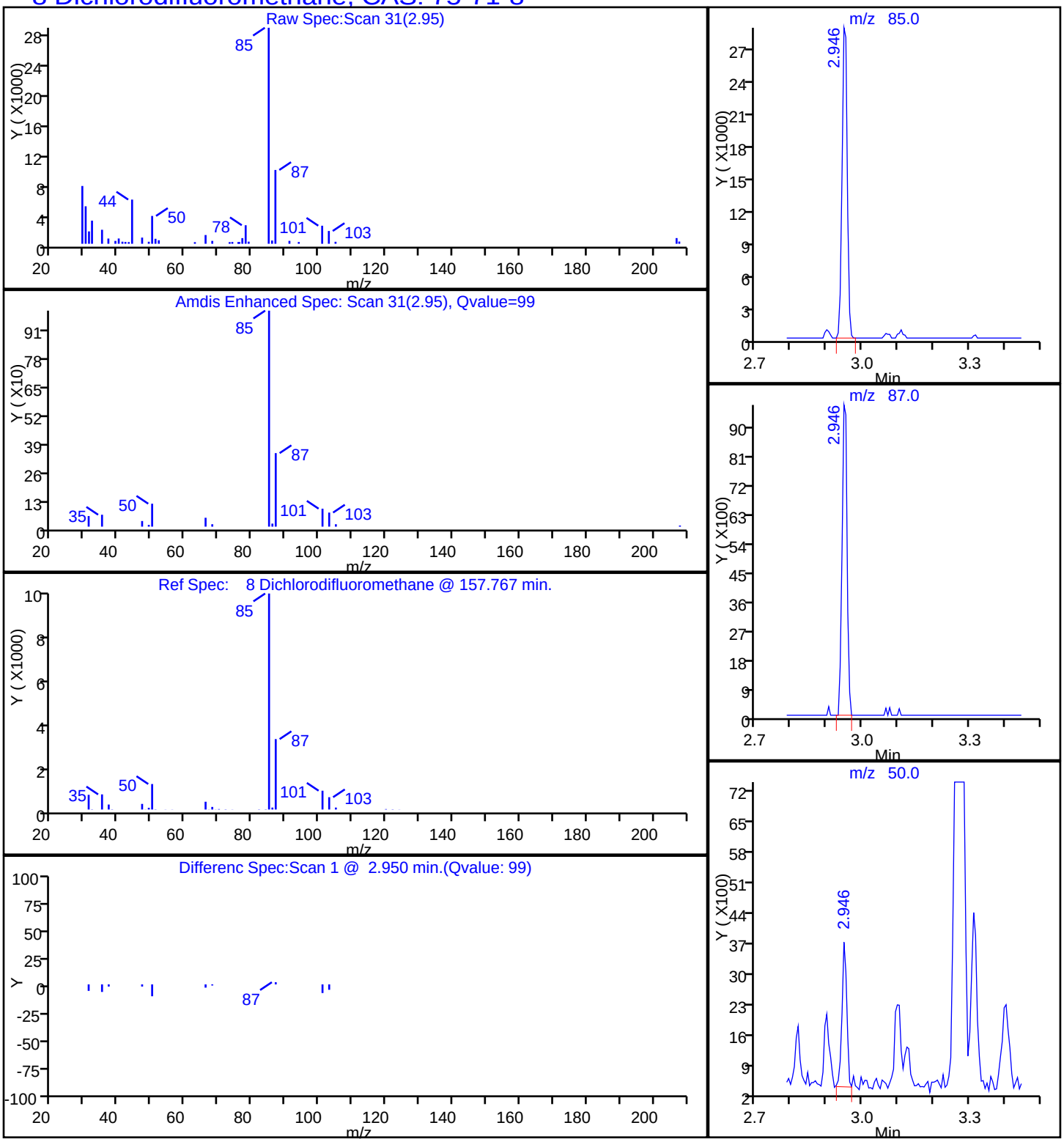




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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D				
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Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4		
Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

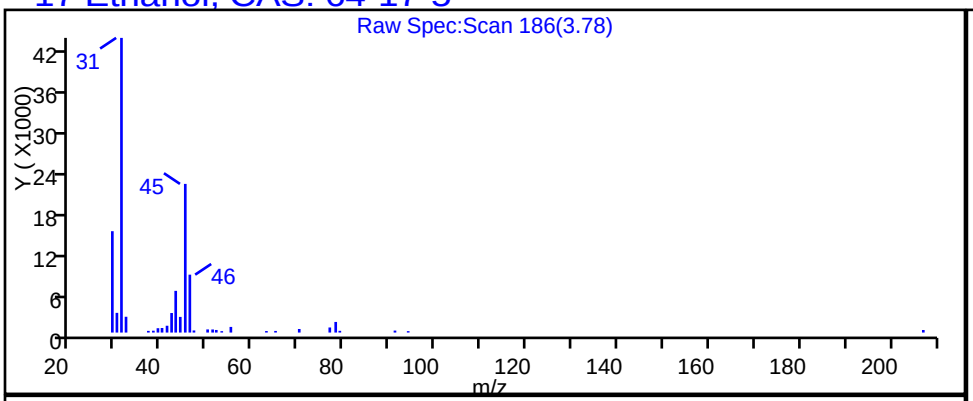
8 Dichlorodifluoromethane, CAS: 75-71-8

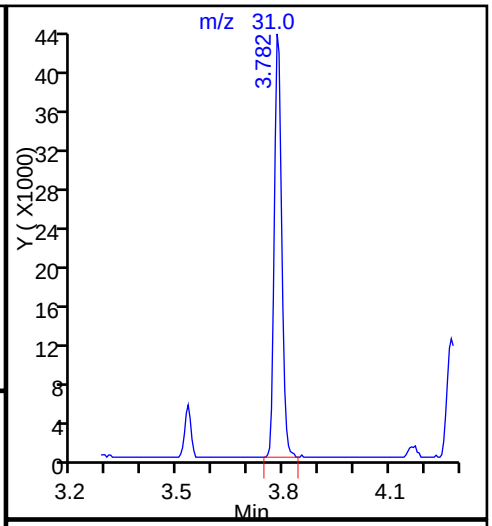


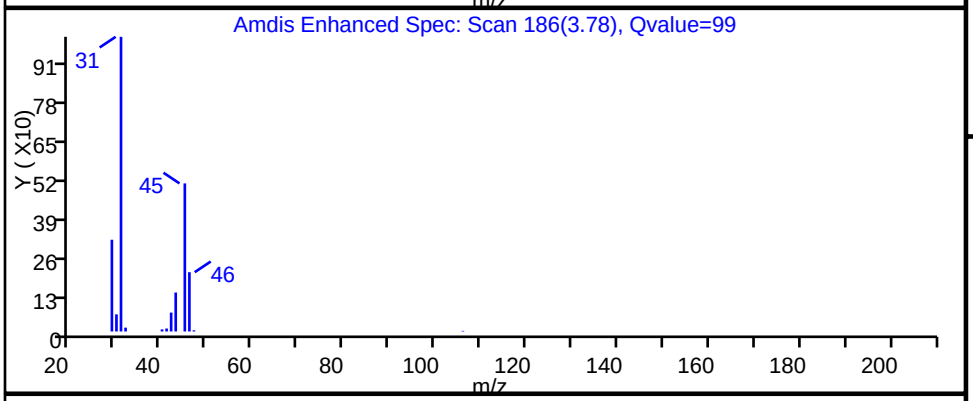
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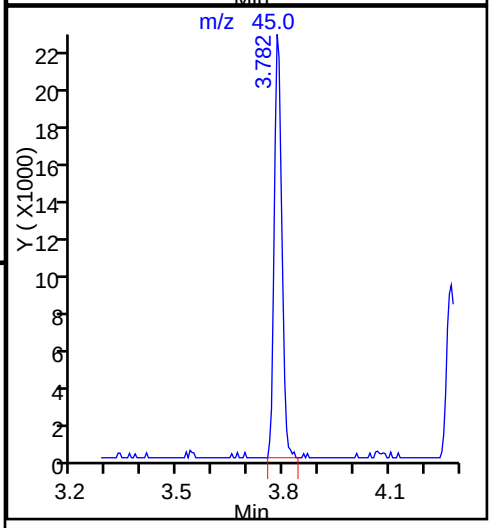
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Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME		
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4		
Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

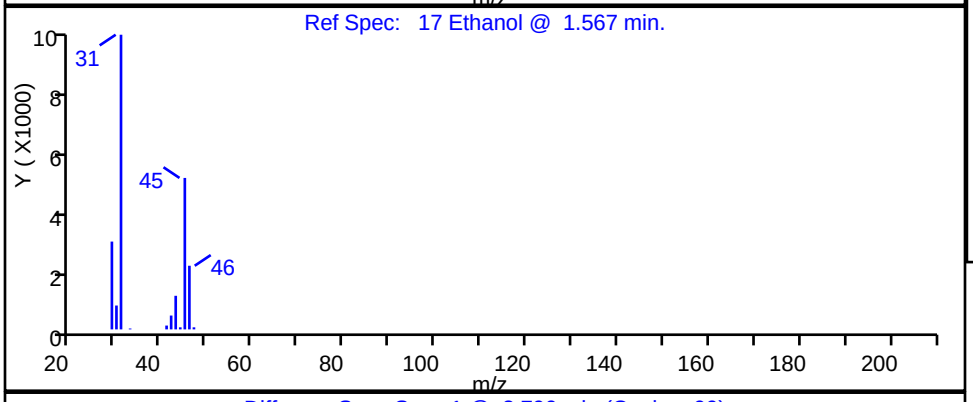
17 Ethanol, CAS: 64-17-5

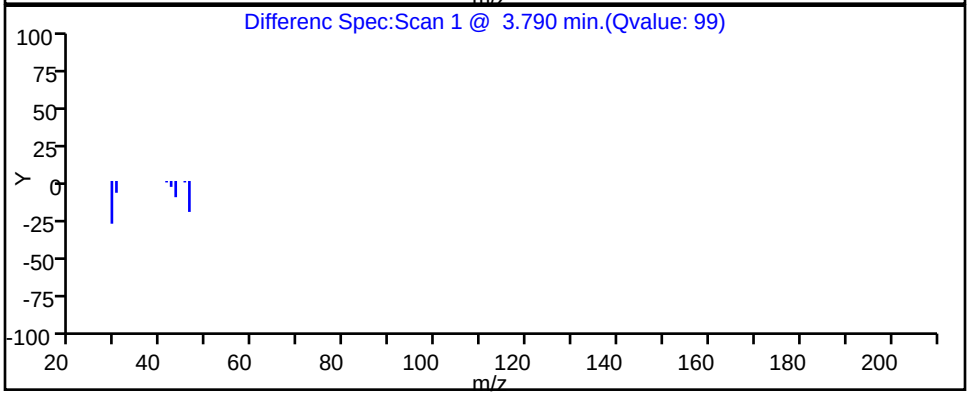






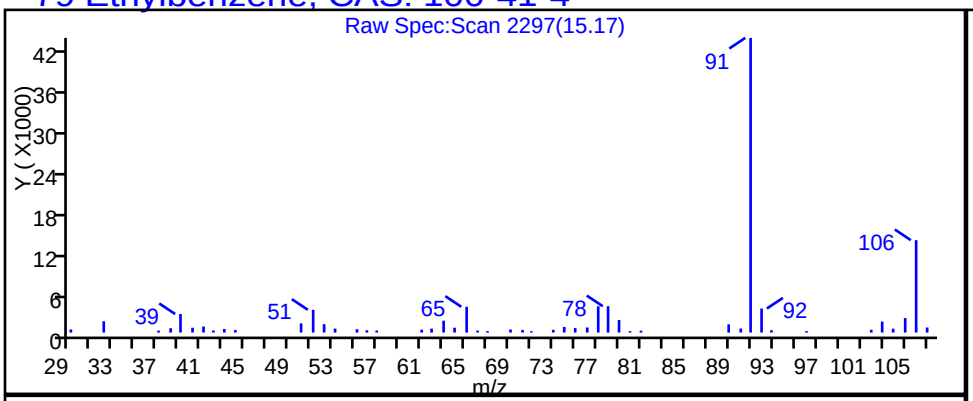


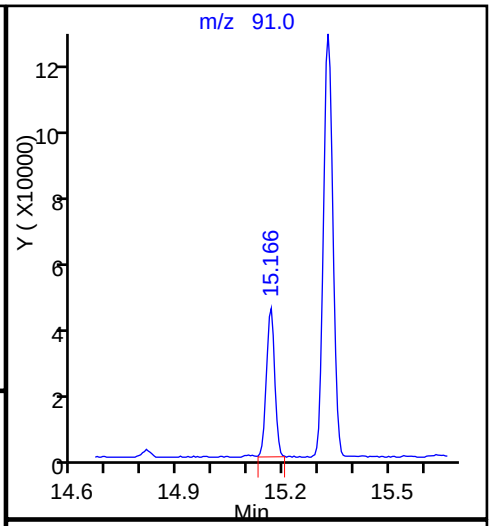


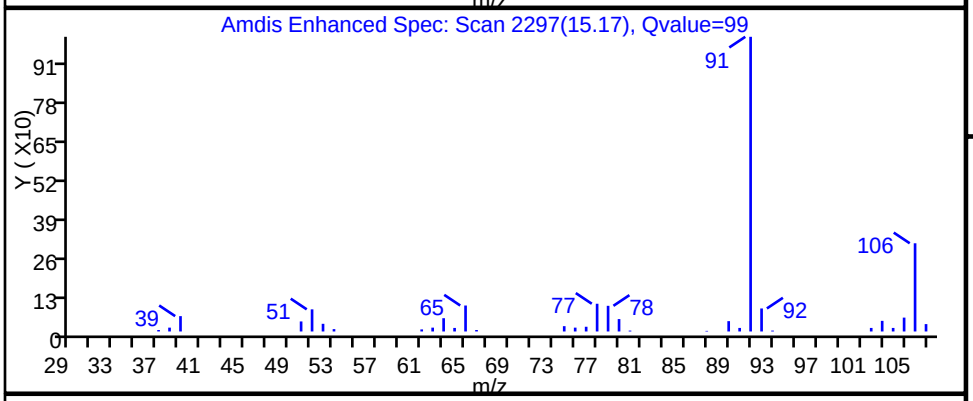


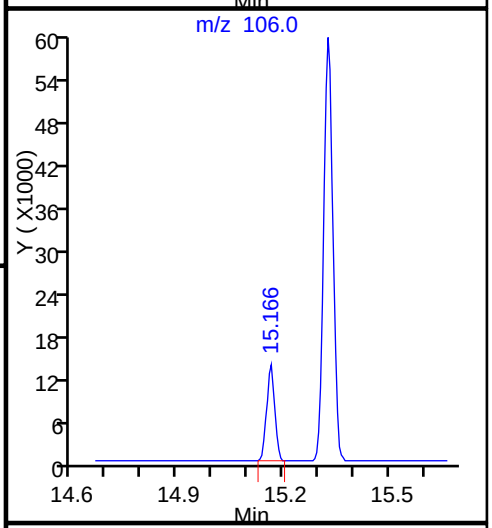
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Injection Date: 01-Sep-2016 15:06:30 Instrument ID: ME
Lims ID: 140-5720-A-4 Lab Sample ID: 140-5720-4
Client ID: SG-212 B
Operator ID: 007126 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

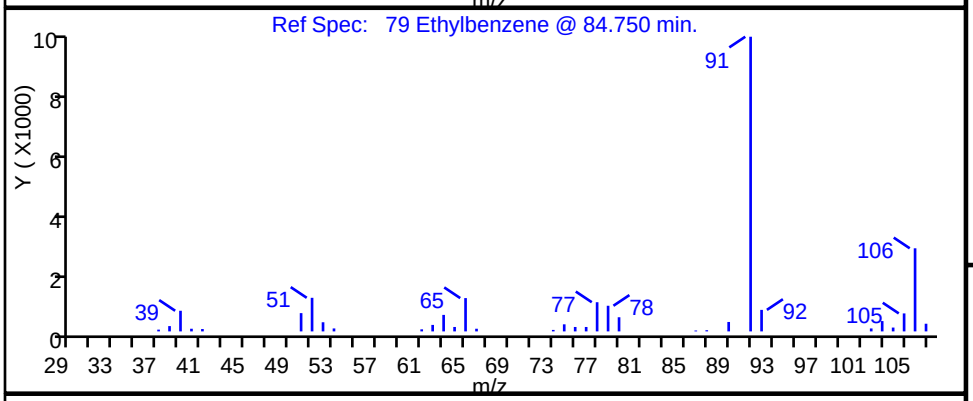
79 Ethylbenzene, CAS: 100-41-4

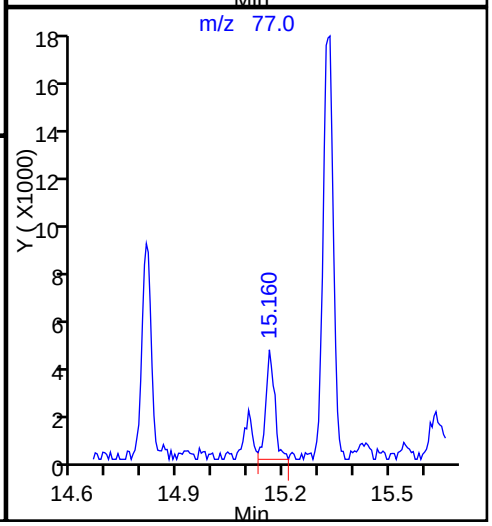


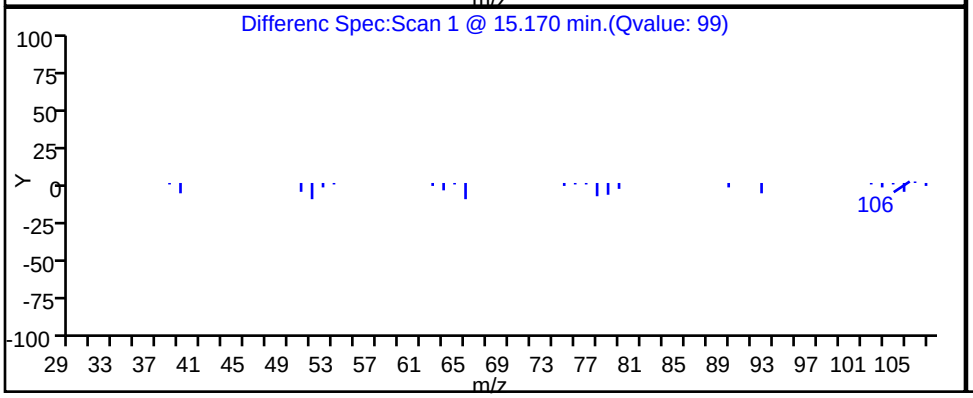








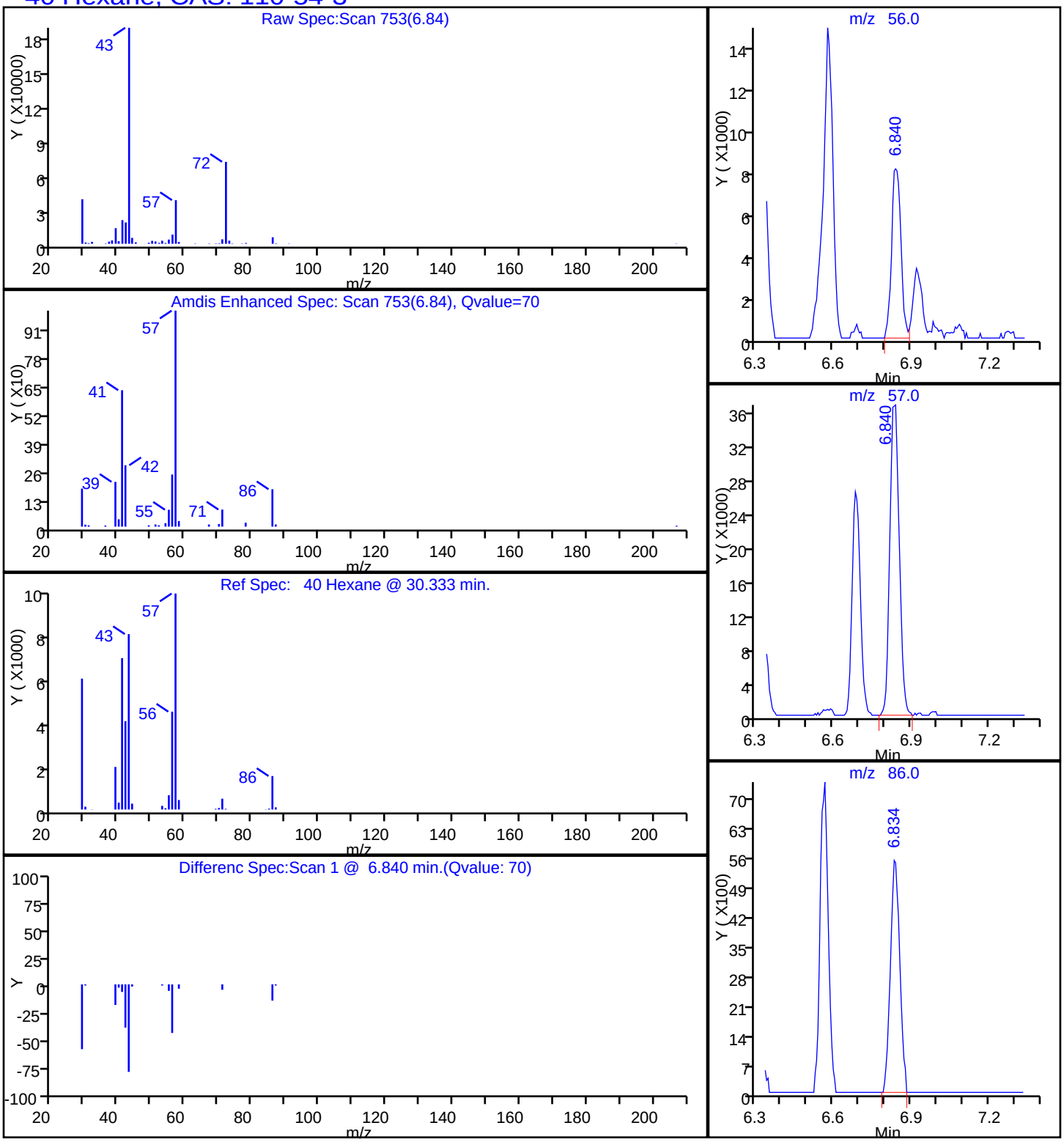




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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D		
Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4
Client ID:	SG-212 B		
Operator ID:	007126	ALS Bottle#:	5 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

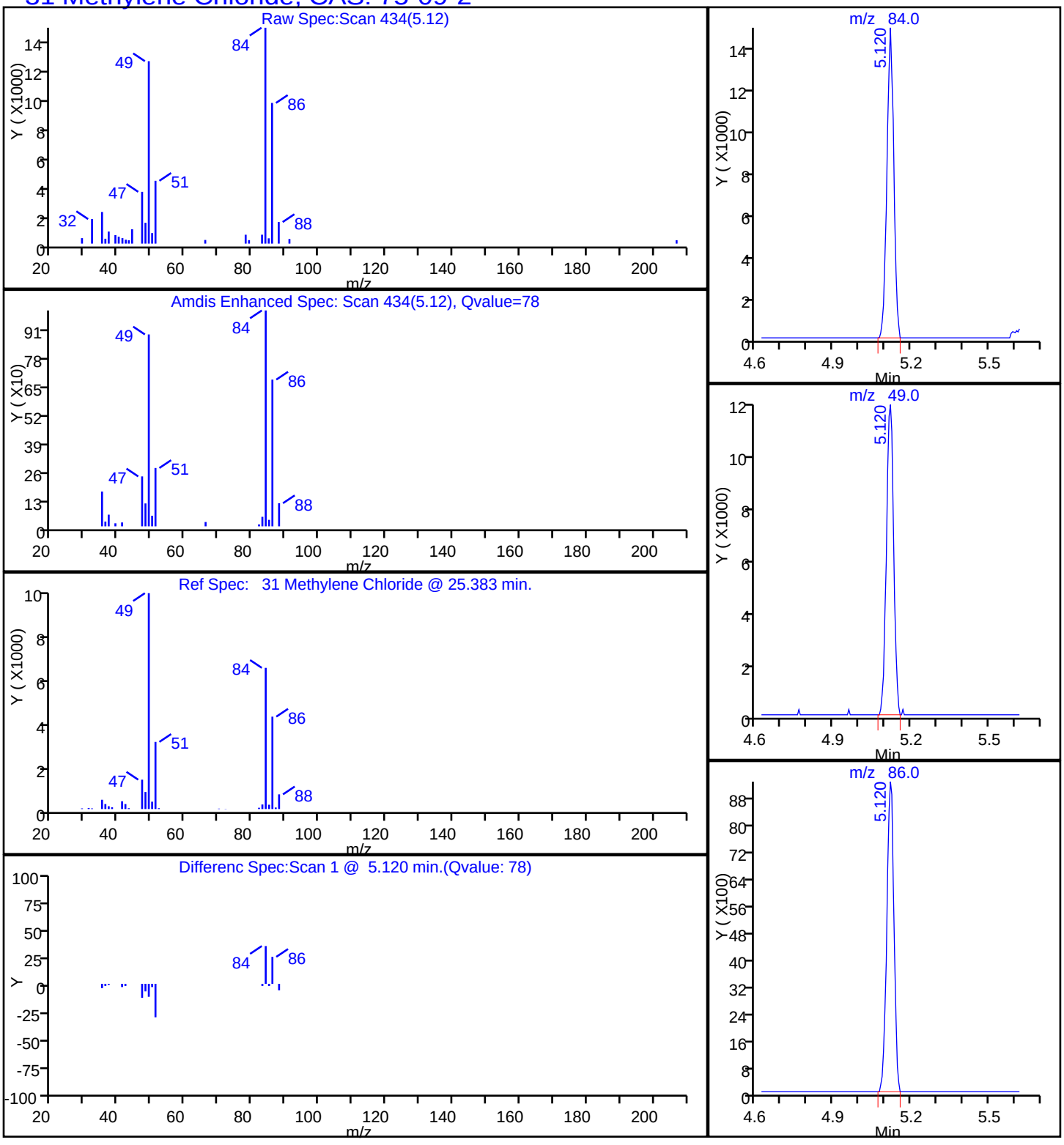
40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

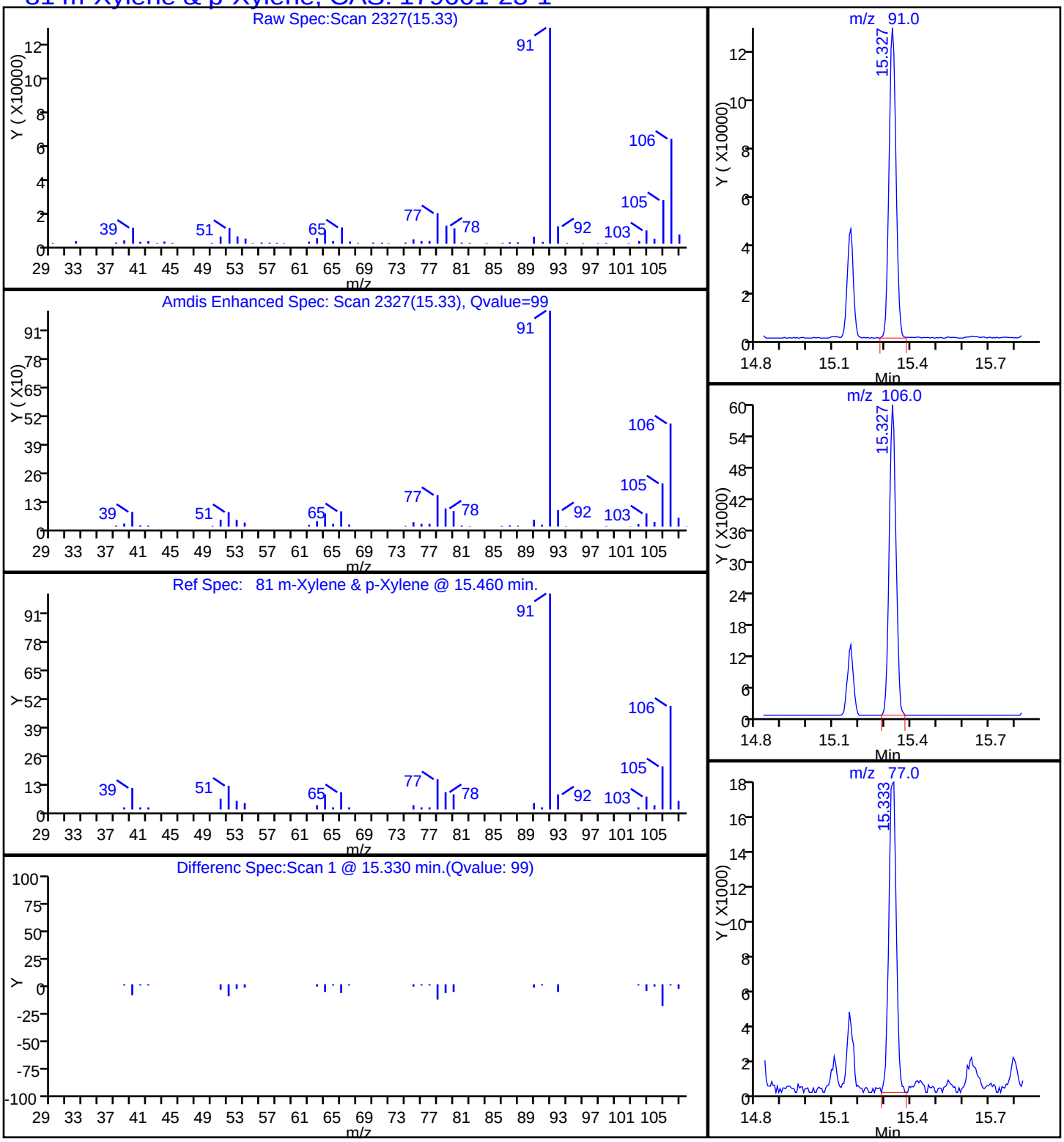
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D		
Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4
Client ID:	SG-212 B		
Operator ID:	007126	ALS Bottle#:	5 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

31 Methylene Chloride, CAS: 75-09-2



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D
Injection Date: 01-Sep-2016 15:06:30 Instrument ID: ME
Lims ID: 140-5720-A-4 Lab Sample ID: 140-5720-4
Client ID: SG-212 B
Operator ID: 007126 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

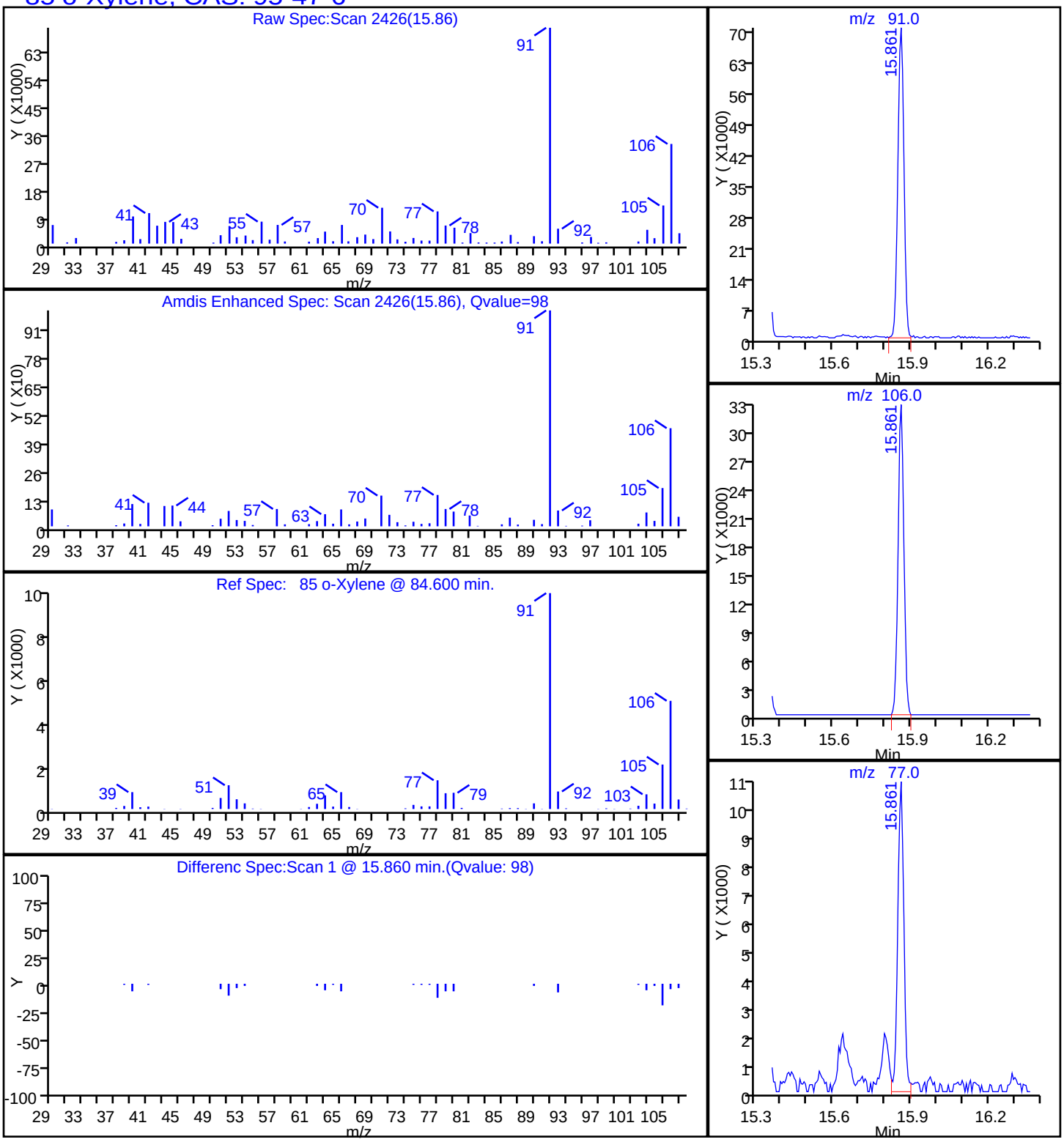
81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D				
Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME		
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4		
Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

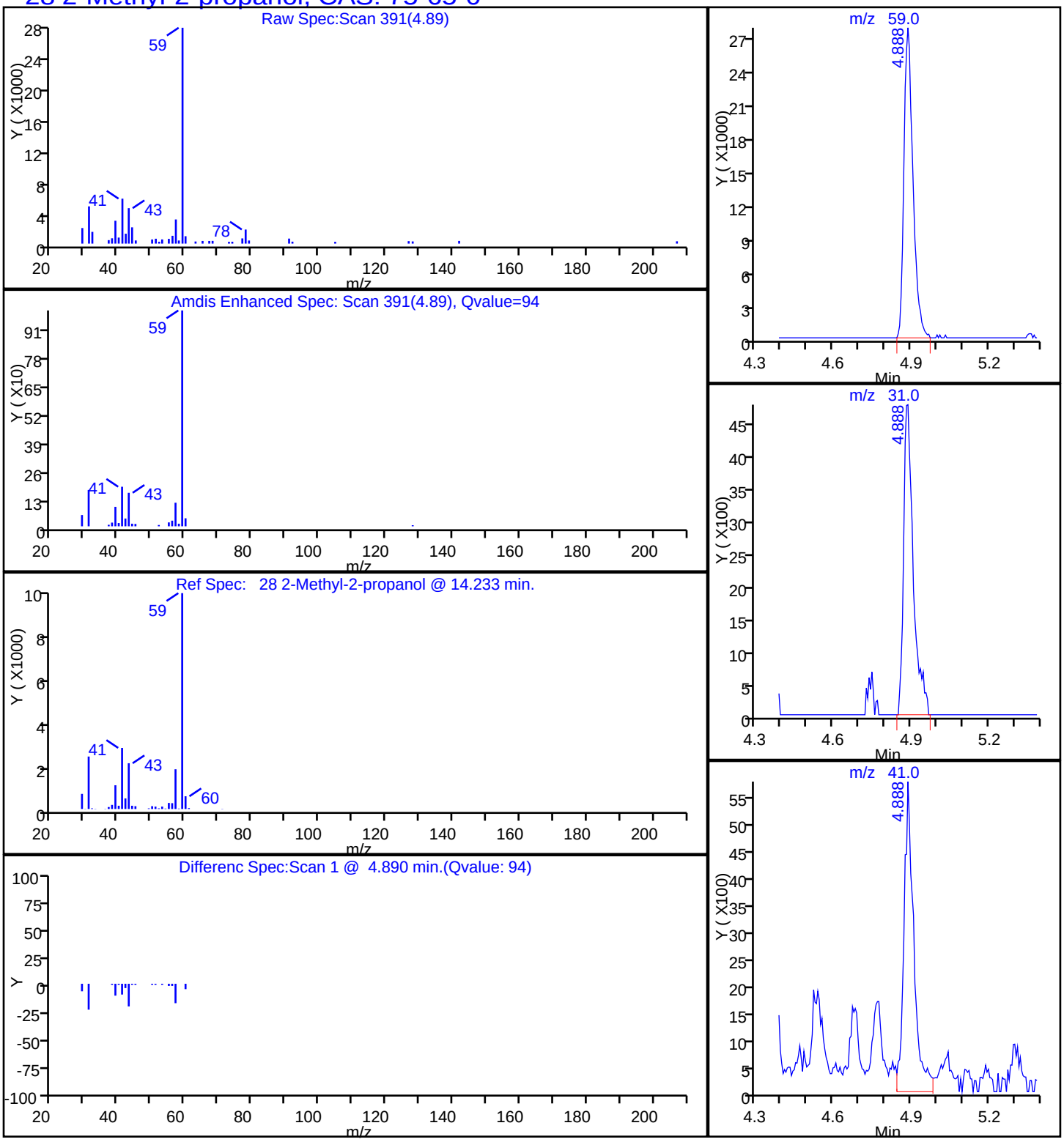
85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D		
Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4
Client ID:	SG-212 B		
Operator ID:	007126	ALS Bottle#:	5 Worklist Smp#: 8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

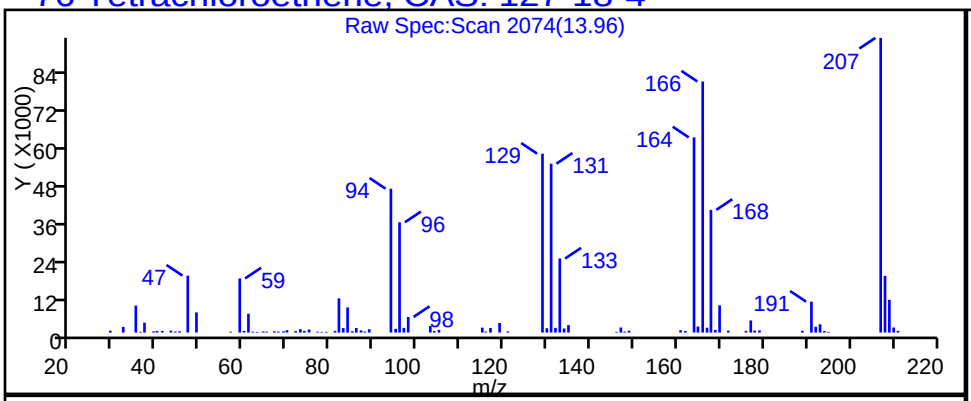
28 2-Methyl-2-propanol, CAS: 75-65-0

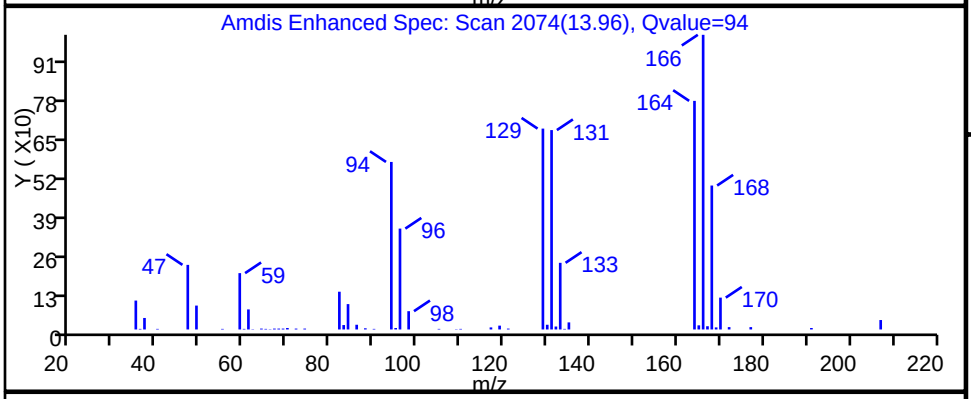


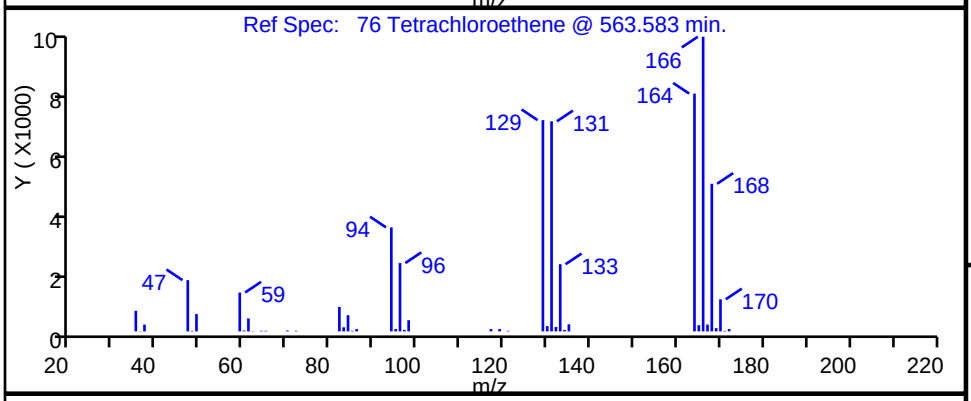
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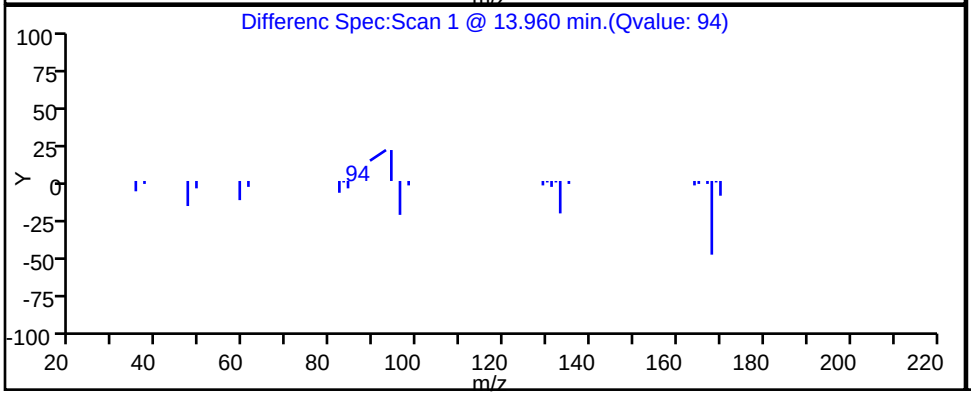
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D
Injection Date: 01-Sep-2016 15:06:30 Instrument ID: ME
Lims ID: 140-5720-A-4 Lab Sample ID: 140-5720-4
Client ID: SG-212 B
Operator ID: 007126 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

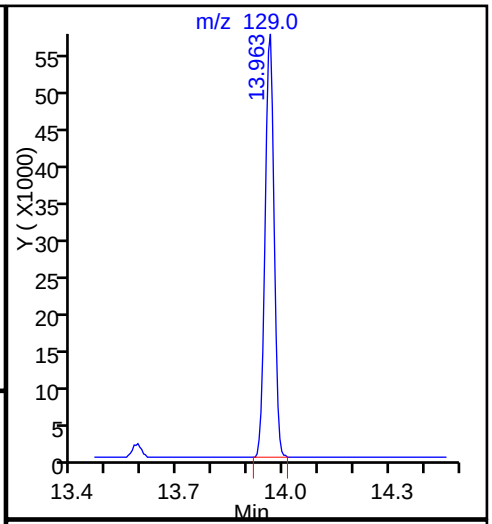
76 Tetrachloroethene, CAS: 127-18-4

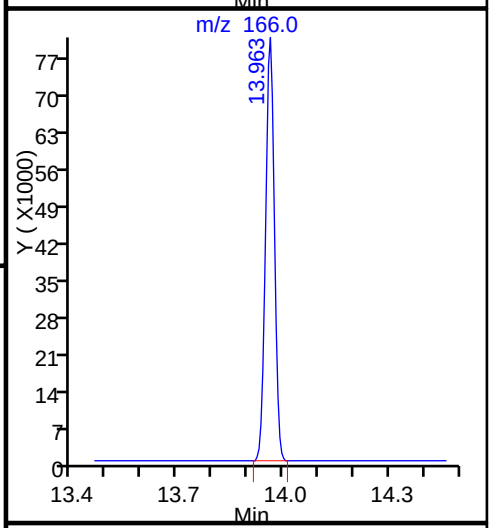


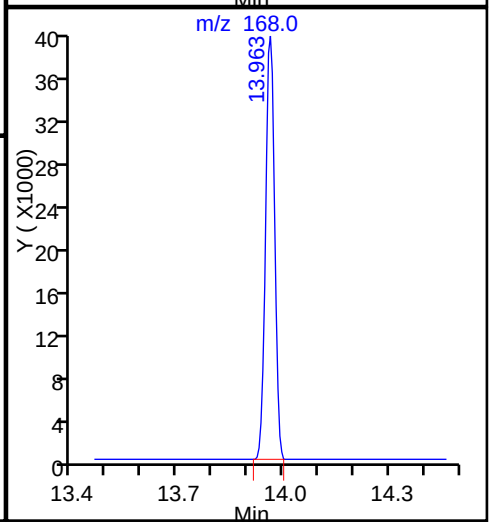








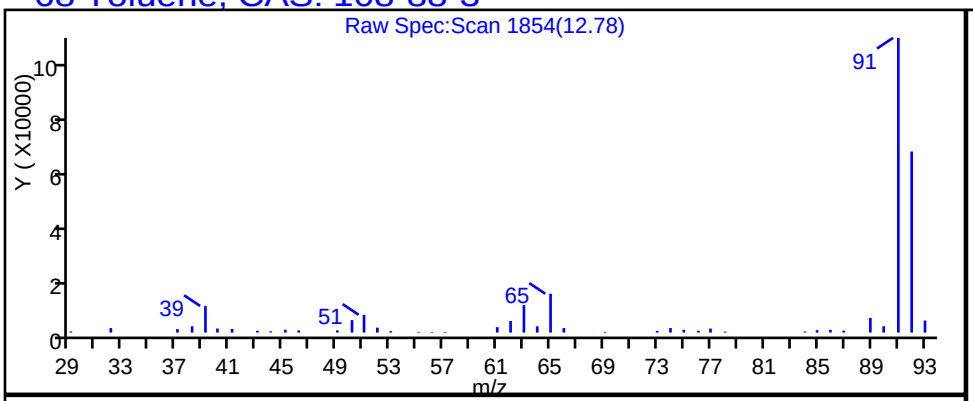


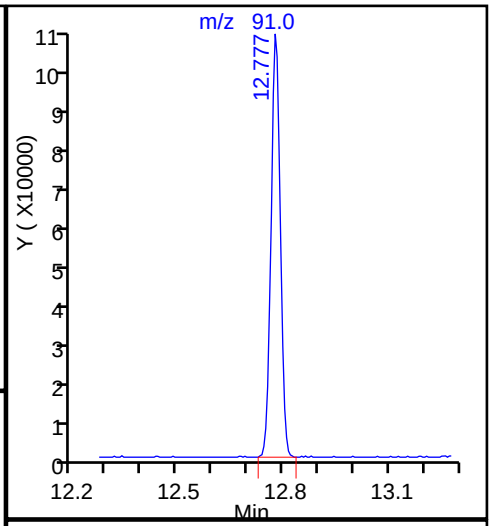


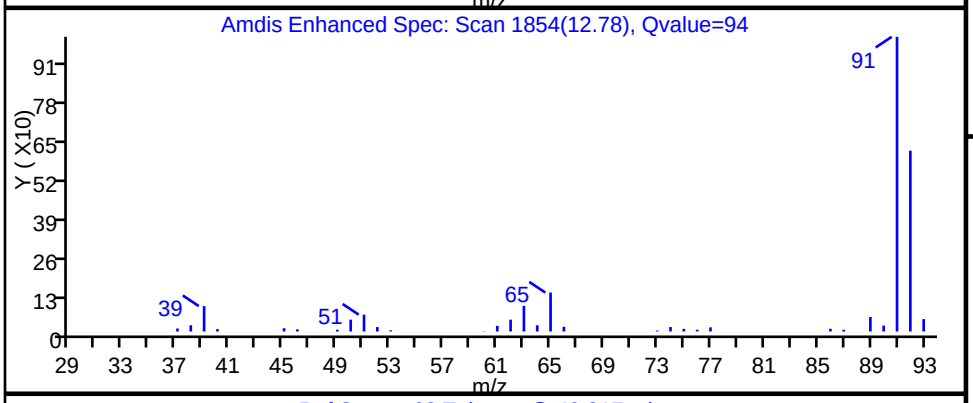
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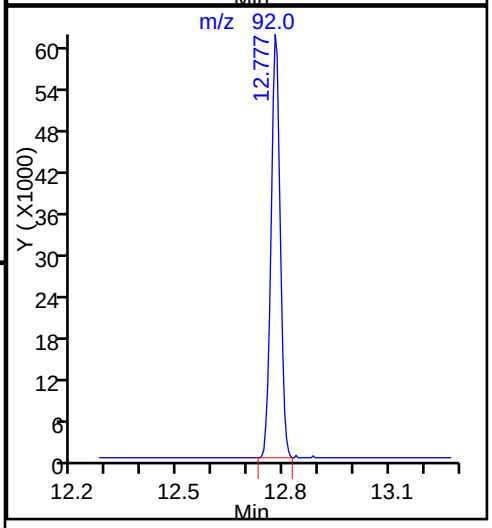
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D				
Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME		
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4		
Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

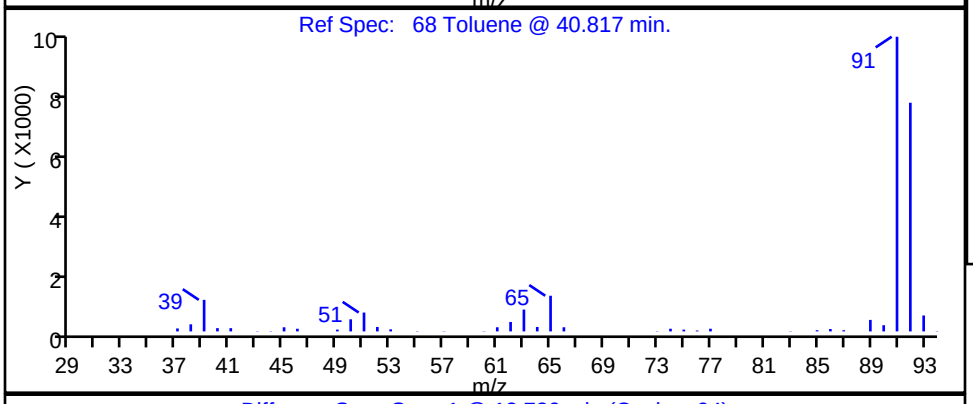
68 Toluene, CAS: 108-88-3

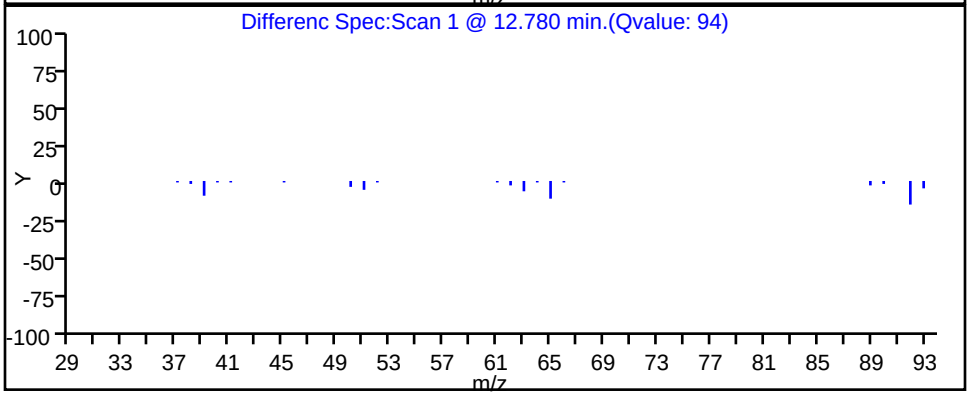








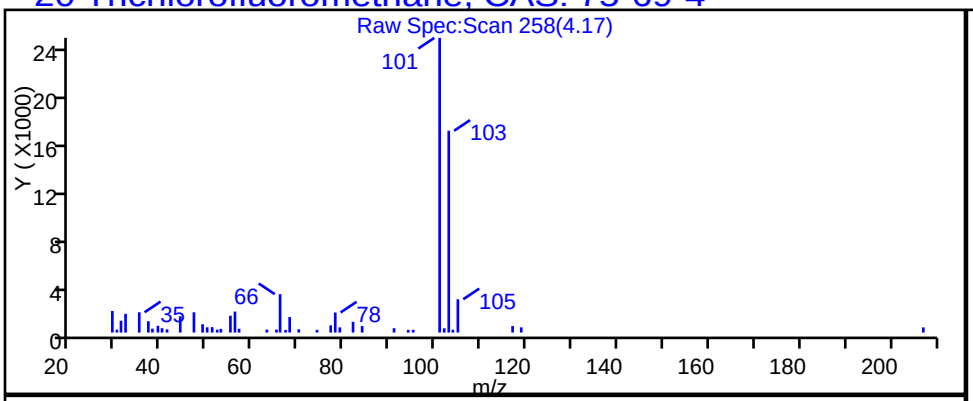


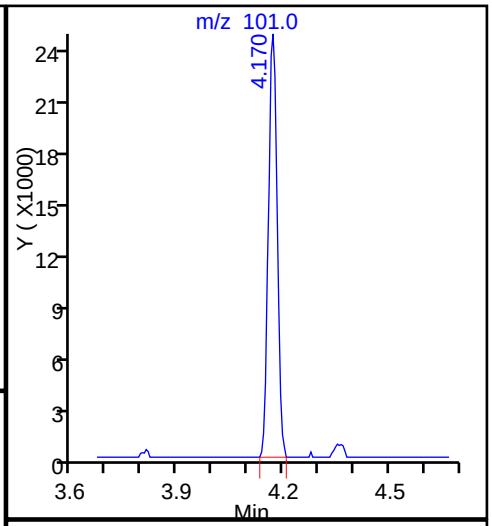


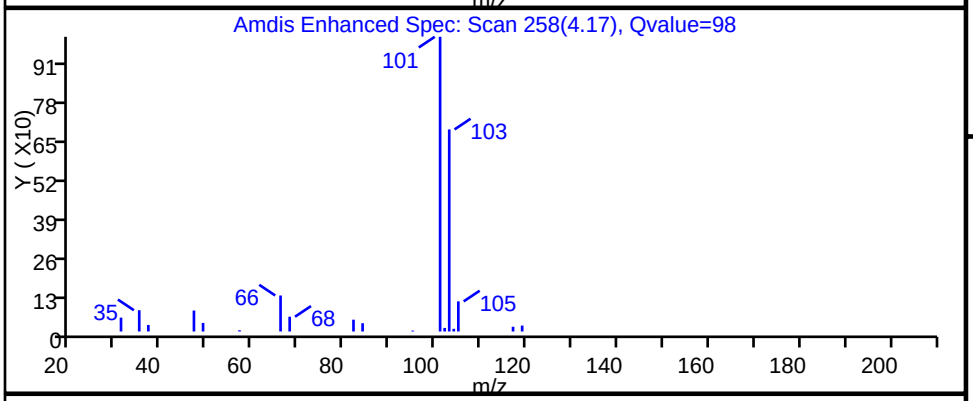
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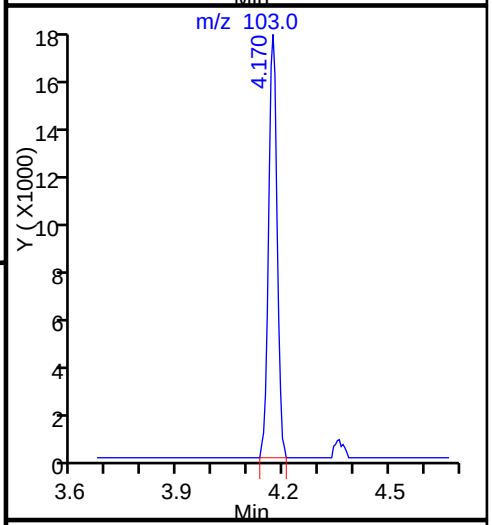
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P105.D				
Injection Date:	01-Sep-2016 15:06:30	Instrument ID:	ME		
Lims ID:	140-5720-A-4	Lab Sample ID:	140-5720-4		
Client ID:	SG-212 B				
Operator ID:	007126	ALS Bottle#:	5	Worklist Smp#:	8
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

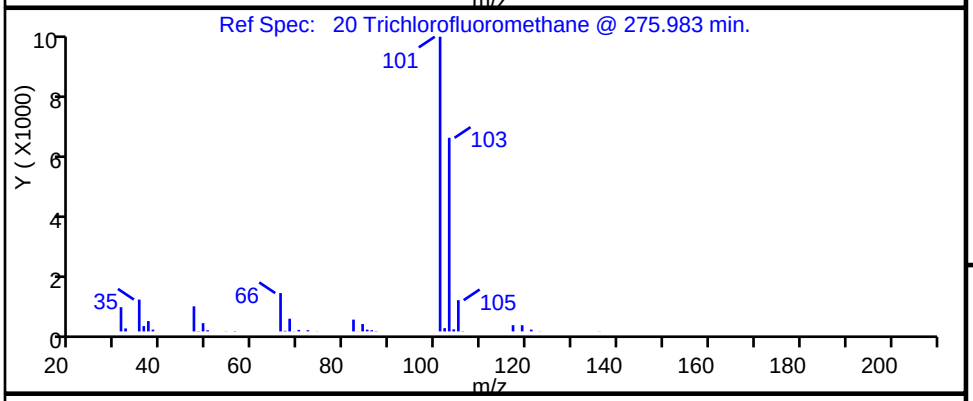
20 Trichlorofluoromethane, CAS: 75-69-4

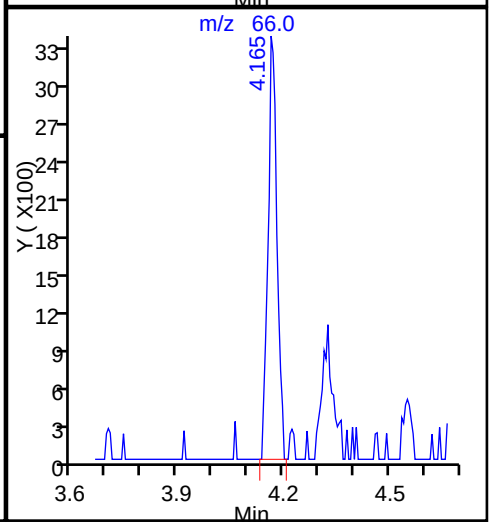


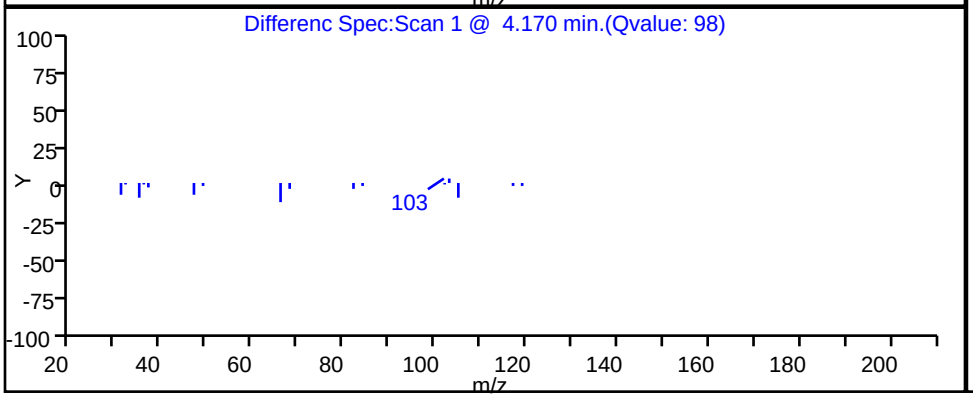












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-211 | Lab Sample ID: 140-5720-5

Matrix: Air | Lab File ID: EI01P106.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:55

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:51

Soil Aliquot Vol: | Dilution Factor: 1.61

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	1.3		0.32	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.32	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.32	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.9		0.32	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.32	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.2		0.32	
106-93-4	1,2-Dibromoethane	187.87	ND		0.32	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.32	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.32	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.32	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.61		0.32	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.32	
106-46-7	1,4-Dichlorobenzene	147.00	16		0.32	
123-91-1	1,4-Dioxane	88.11	ND		0.81	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.81	
78-93-3	2-Butanone	72.11	27		1.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.81	
71-43-2	Benzene	78.11	2.9		0.32	
100-44-7	Benzyl chloride	126.58	ND		0.64	
75-27-4	Bromodichloromethane	163.83	0.46		0.32	
75-25-2	Bromoform	252.75	ND		0.32	
74-83-9	Bromomethane	94.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	ND		0.16	
108-90-7	Chlorobenzene	112.56	ND		0.32	
75-00-3	Chloroethane	64.52	0.33		0.32	
67-66-3	Chloroform	119.38	6.8		0.32	
74-87-3	Chloromethane	50.49	1.1		0.81	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.32	
110-82-7	Cyclohexane	84.16	ND		0.81	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-211 Lab Sample ID: 140-5720-5

Matrix: Air Lab File ID: EI01P106.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:55

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 15:51

Soil Aliquot Vol: Dilution Factor: 1.61

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.32	
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.32	
64-17-5	Ethanol	46.07	ND		8.1	
100-41-4	Ethylbenzene	106.17	1.2		0.32	
87-68-3	Hexachlorobutadiene	260.76	ND		0.32	
110-54-3	Hexane	86.17	4.8		0.81	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.64	
75-09-2	Methylene Chloride	84.93	1.2		0.81	
179601-23-1	m-Xylene & p-Xylene	106.17	4.7		0.32	
95-47-6	o-Xylene	106.17	2.1		0.32	
100-42-5	Styrene	104.15	0.41		0.32	
75-65-0	t-Butyl alcohol	74.12	4.0		1.3	
127-18-4	Tetrachloroethene	165.83	2.7		0.32	
108-88-3	Toluene	92.14	7.3		0.48	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.16	
75-69-4	Trichlorofluoromethane	137.37	0.53		0.32	
75-01-4	Vinyl chloride	62.50	ND		0.16	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-211 Lab Sample ID: 140-5720-5

Matrix: Air Lab File ID: EI01P106.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:55

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 15:51

Soil Aliquot Vol: Dilution Factor: 1.61

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	7.1		1.8	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.2	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.8	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	22		2.5	
75-34-3	1,1-Dichloroethane	98.96	ND		1.3	
75-35-4	1,1-Dichloroethene	96.94	ND		1.3	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.4	
95-63-6	1,2,4-Trimethylbenzene	120.20	11		1.6	
106-93-4	1,2-Dibromoethane	187.87	ND		2.5	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.9	
107-06-2	1,2-Dichloroethane	98.96	ND		1.3	
78-87-5	1,2-Dichloropropane	112.99	ND		1.5	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.3	
108-67-8	1,3,5-Trimethylbenzene	120.20	3.0		1.6	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.9	
106-46-7	1,4-Dichlorobenzene	147.00	97		1.9	
123-91-1	1,4-Dioxane	88.11	ND		2.9	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		3.8	
78-93-3	2-Butanone	72.11	80		3.8	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		3.3	
71-43-2	Benzene	78.11	9.2		1.0	
100-44-7	Benzyl chloride	126.58	ND		3.3	
75-27-4	Bromodichloromethane	163.83	3.1		2.2	
75-25-2	Bromoform	252.75	ND		3.3	
74-83-9	Bromomethane	94.94	ND		1.3	
56-23-5	Carbon tetrachloride	153.81	ND		1.0	
108-90-7	Chlorobenzene	112.56	ND		1.5	
75-00-3	Chloroethane	64.52	0.88		0.85	
67-66-3	Chloroform	119.38	33		1.6	
74-87-3	Chloromethane	50.49	2.3		1.7	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.3	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.5	
110-82-7	Cyclohexane	84.16	ND		2.8	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-211 Lab Sample ID: 140-5720-5

Matrix: Air Lab File ID: EI01P106.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 12:55

Sample wt/vol: 200(mL) Date Analyzed: 09/01/2016 15:51

Soil Aliquot Vol: Dilution Factor: 1.61

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		2.7	
75-71-8	Dichlorodifluoromethane	120.91	2.6		1.6	
64-17-5	Ethanol	46.07	ND		15	
100-41-4	Ethylbenzene	106.17	5.3		1.4	
87-68-3	Hexachlorobutadiene	260.76	ND		3.4	
110-54-3	Hexane	86.17	17		2.8	
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.3	
75-09-2	Methylene Chloride	84.93	4.2		2.8	
179601-23-1	m-Xylene & p-Xylene	106.17	21		1.4	
95-47-6	o-Xylene	106.17	9.3		1.4	
100-42-5	Styrene	104.15	1.8		1.4	
75-65-0	t-Butyl alcohol	74.12	12		3.9	
127-18-4	Tetrachloroethene	165.83	18		2.2	
108-88-3	Toluene	92.14	28		1.8	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.3	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.5	
79-01-6	Trichloroethene	131.39	ND		0.87	
75-69-4	Trichlorofluoromethane	137.37	2.9		1.8	
75-01-4	Vinyl chloride	62.50	ND		0.41	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D
Lims ID: 140-5720-A-5
Client ID: SG-211
Sample Type: Client
Inject. Date: 01-Sep-2016 15:51:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6100
Sample Info: 140-0003369-009
Misc. Info.: 140-5720-a-5@1.61
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 16:36:00 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:35:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	74	254382	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1167152	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1132276	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	954450	4.12	
8 Dichlorodifluoromethane	85	2.941	2.946	-0.005	99	35448	0.1325	
9 Chloromethane	52	3.092	3.097	-0.005	96	4668	0.2718	M
15 Bromomethane	94	3.577	3.577	0.000	47	1220	0.0157	
16 Chloroethane	64	3.690	3.696	-0.006	91	3033	0.0831	
17 Ethanol	31	3.777	3.777	0.000	100	34142	1.89	
20 Trichlorofluoromethane	101	4.165	4.165	0.000	99	33777	0.1304	
27 1,1-Dichloroethene	96	4.774	4.780	-0.006	33	1126	0.0145	
28 2-Methyl-2-propanol	59	4.871	4.877	-0.006	92	105477	1.00	
30 1,1,2-Trichloro-1,2,2-trif	101	4.942	4.942	0.000	96	119062	0.7120	
31 Methylene Chloride	84	5.114	5.103	0.011	79	24006	0.3009	
37 1,1-Dichloroethane	63	6.284	6.279	0.005	55	3037	0.0215	
39 2-Butanone (MEK)	72	6.823	6.834	-0.011	95	248492	6.70	
40 Hexane	56	6.834	6.840	-0.006	72	59217	1.19	
44 Chloroform	83	7.584	7.584	0.000	97	360067	1.70	
47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	96	77175	0.3247	
50 Cyclohexane	69	9.196	9.196	0.000	47	7003	0.1771	
51 Benzene	78	9.201	9.202	-0.001	94	170297	0.7119	
56 Isooctane	57	10.037	10.037	0.000	81	32817	0.1180	
61 Dichlorobromomethane	83	10.830	10.835	-0.005	56	23127	0.1140	
65 4-Methyl-2-pentanone (MIBK	43	11.892	11.887	0.005	91	14518	0.1548	
68 Toluene	91	12.777	12.777	0.000	94	495431	1.82	
74 Chlorodibromomethane	129	13.580	13.586	-0.006	97	4474	0.0255	
76 Tetrachloroethene	129	13.963	13.963	0.000	95	70902	0.6711	
79 Ethylbenzene	91	15.165	15.166	-0.001	98	111437	0.3058	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	334467	1.18	
84 Styrene	104	15.802	15.802	0.000	95	18722	0.1022	
85 o-Xylene	91	15.856	15.861	-0.005	97	158502	0.5314	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	89	26368	0.1525	M
96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	98	172556	0.5391	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	91	759895	4.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

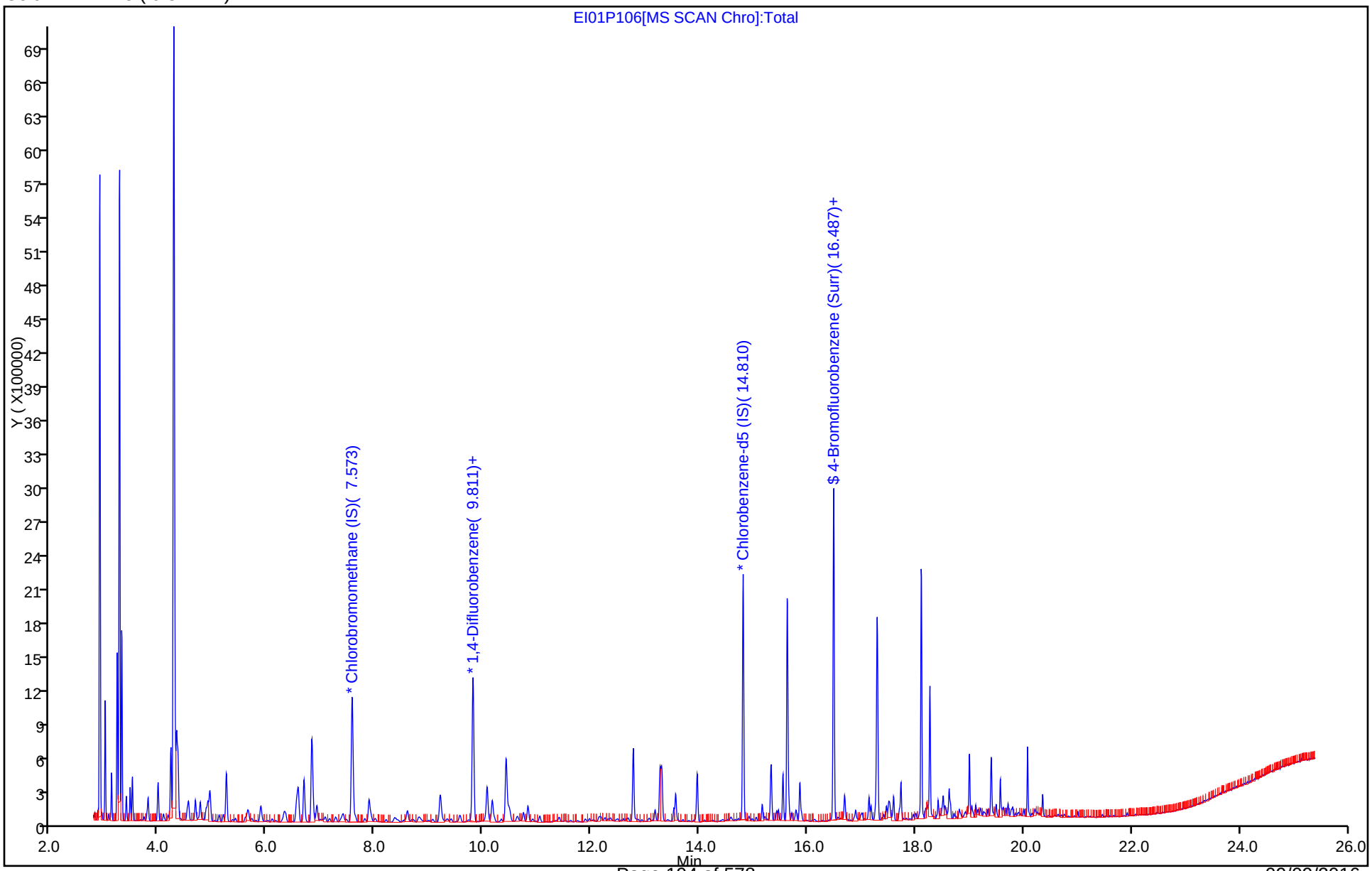
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D

Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5	Worklist Smp#:	9
Client ID:	SG-211				
Purge Vol:	500.000 mL	Dil. Factor:	1.6100	ALS Bottle#:	6
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Lims ID:	140-5720-A-5				
Client ID:	SG-211				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 15:51:30	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Sample Info:	140-0003369-009				
Misc. Info.:	140-5720-a-5@1.61				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 16:36:00	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
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Process Host:	XAWRK023				

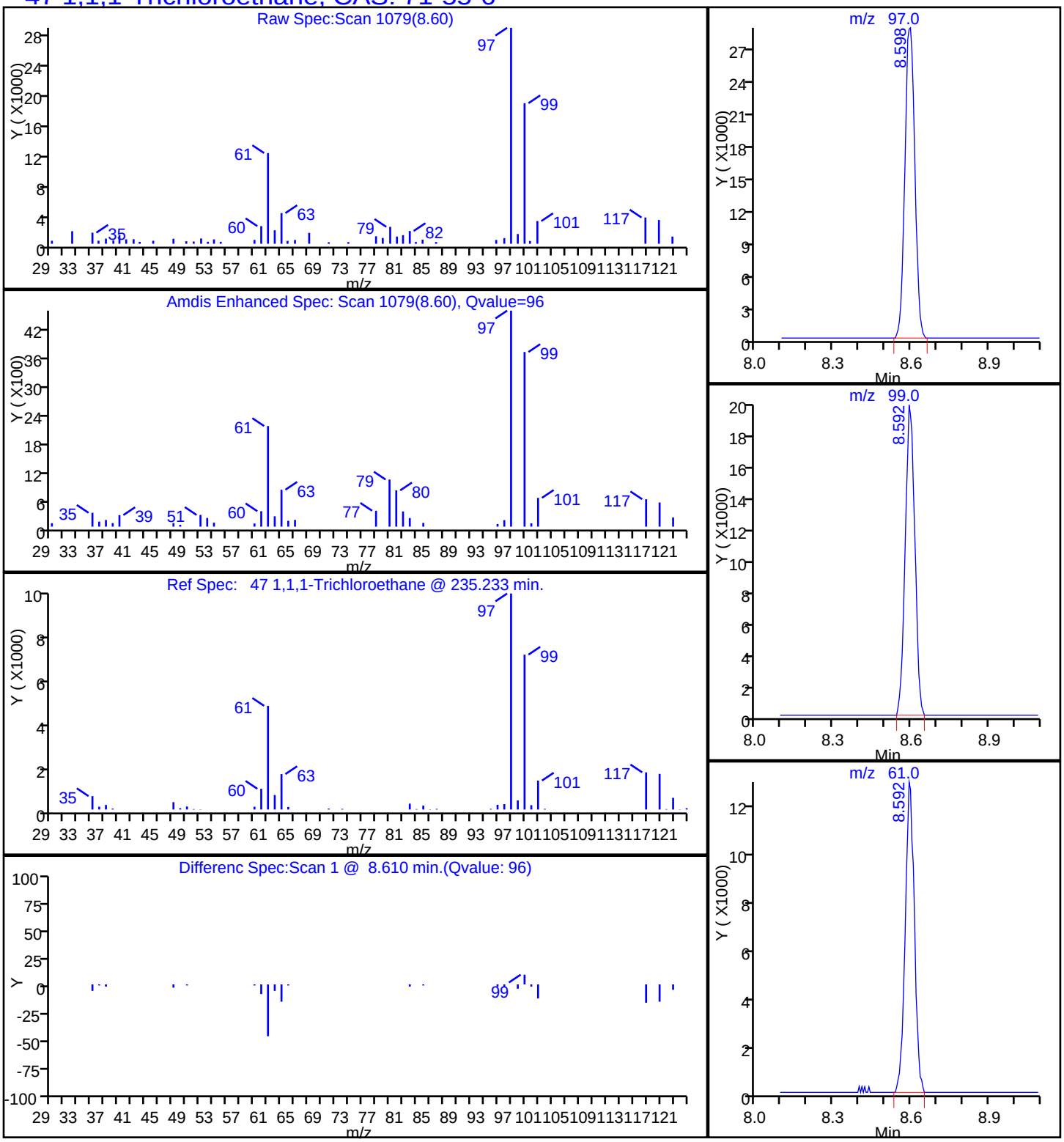
First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 16:35:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.12	102.99

TestAmerica Knoxville

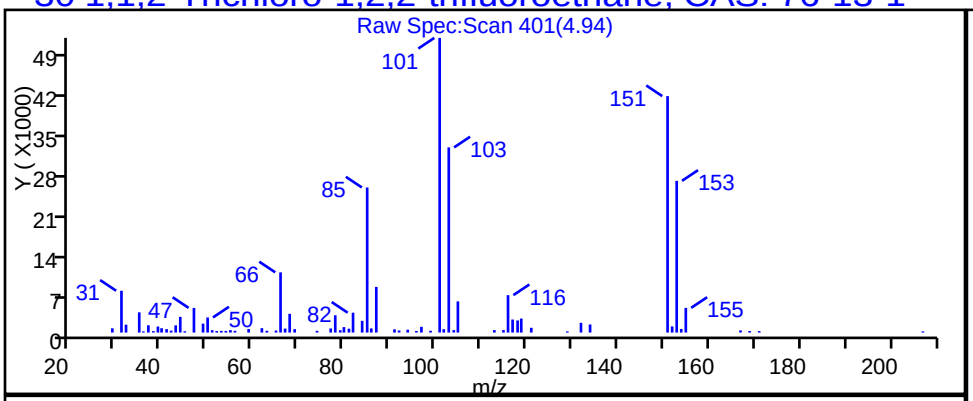
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Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

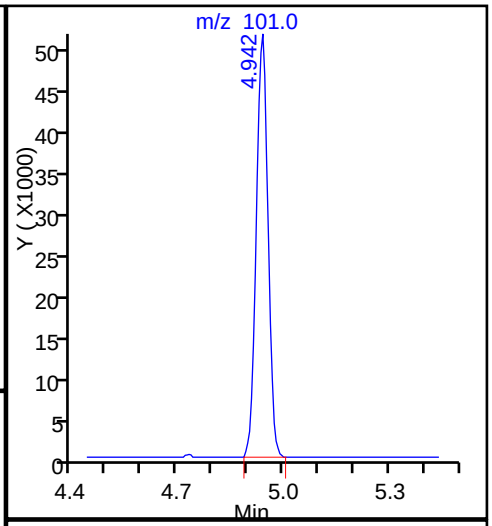
47 1,1,1-Trichloroethane, CAS: 71-55-6

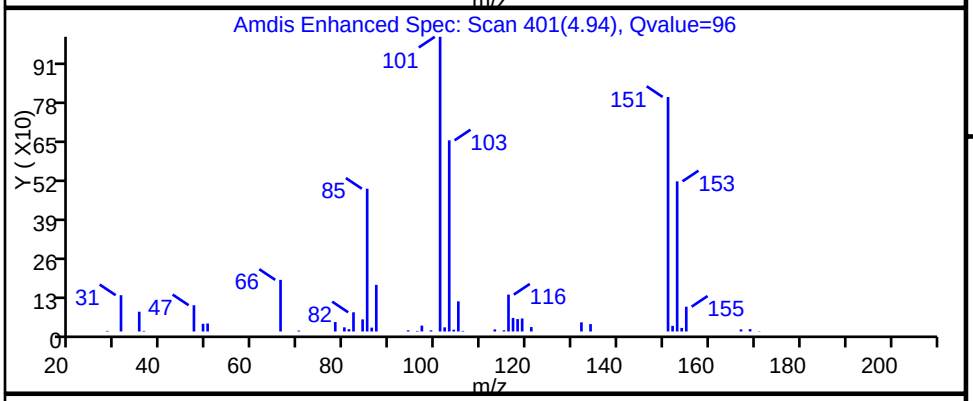


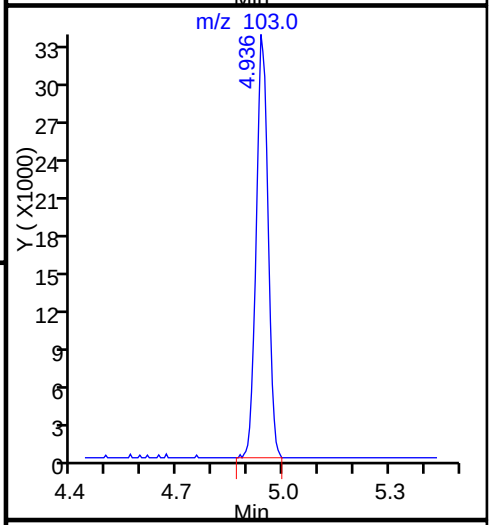
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Injection Date: 01-Sep-2016 15:51:30 Instrument ID: ME
Lims ID: 140-5720-A-5 Lab Sample ID: 140-5720-5
Client ID: SG-211
Operator ID: 007126 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6100
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

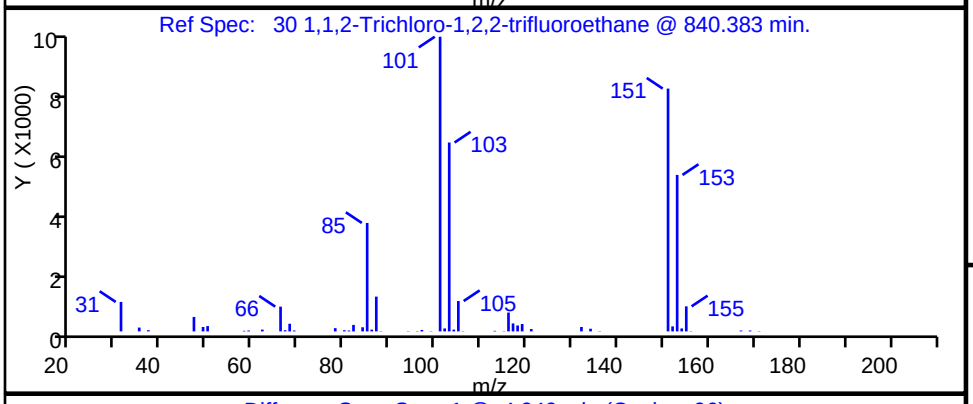
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

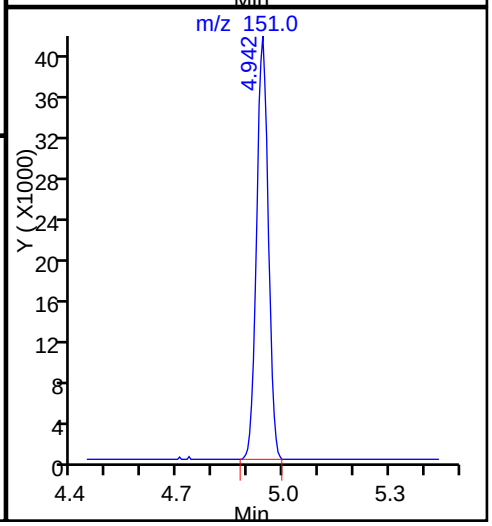


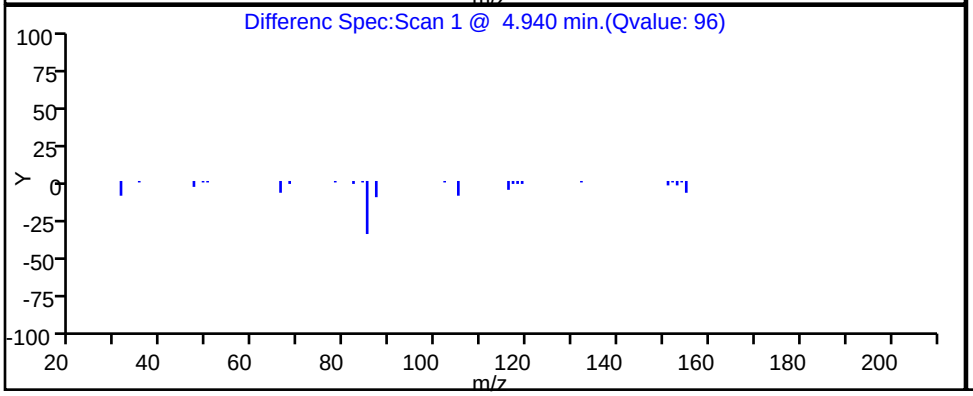








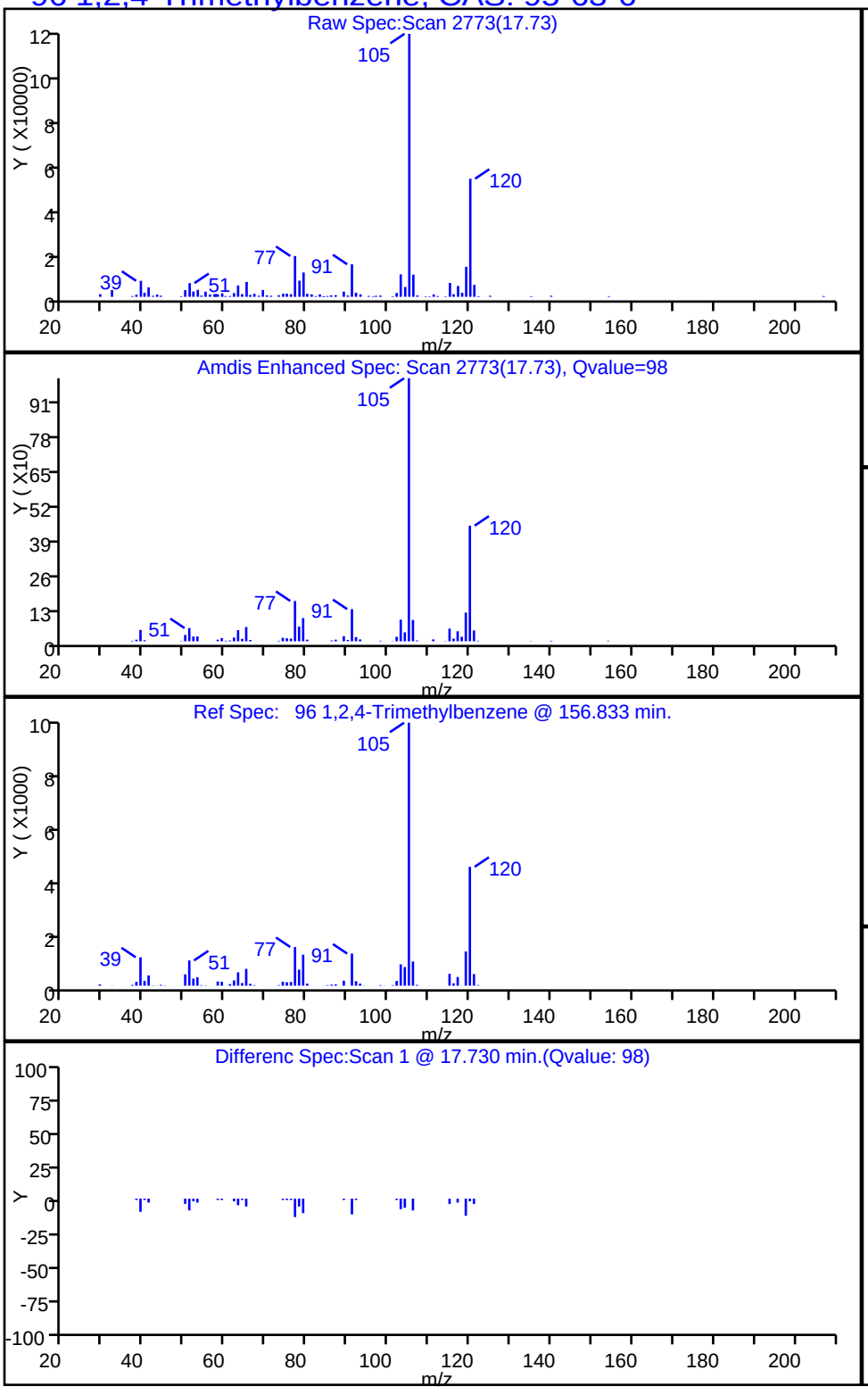


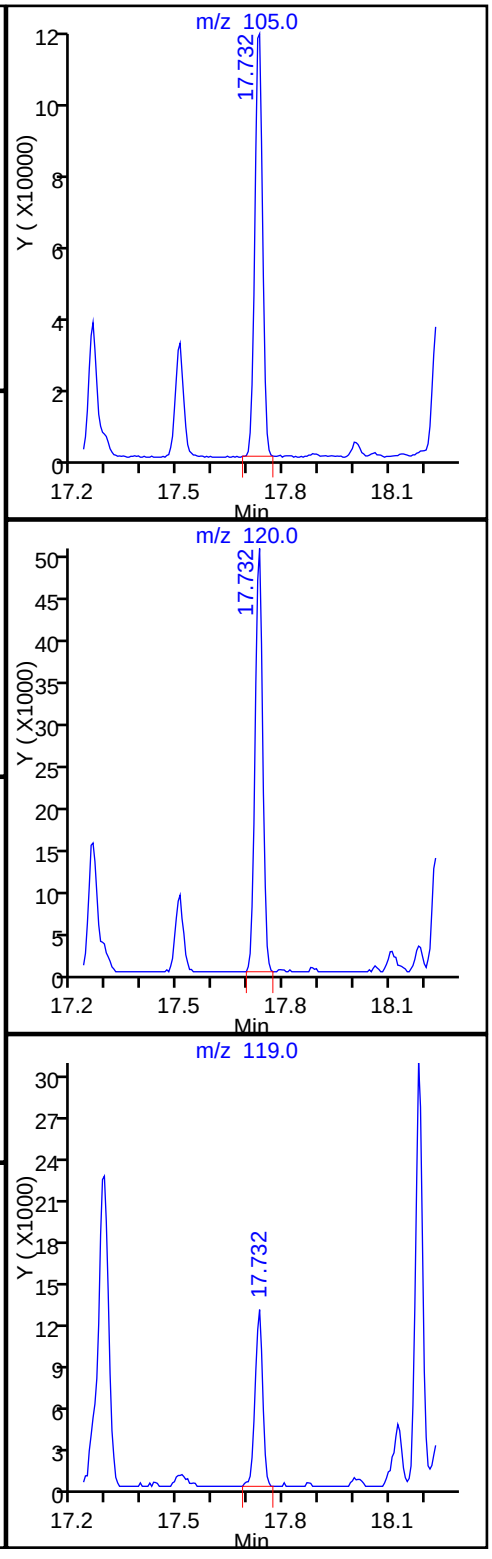


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

96 1,2,4-Trimethylbenzene, CAS: 95-63-6

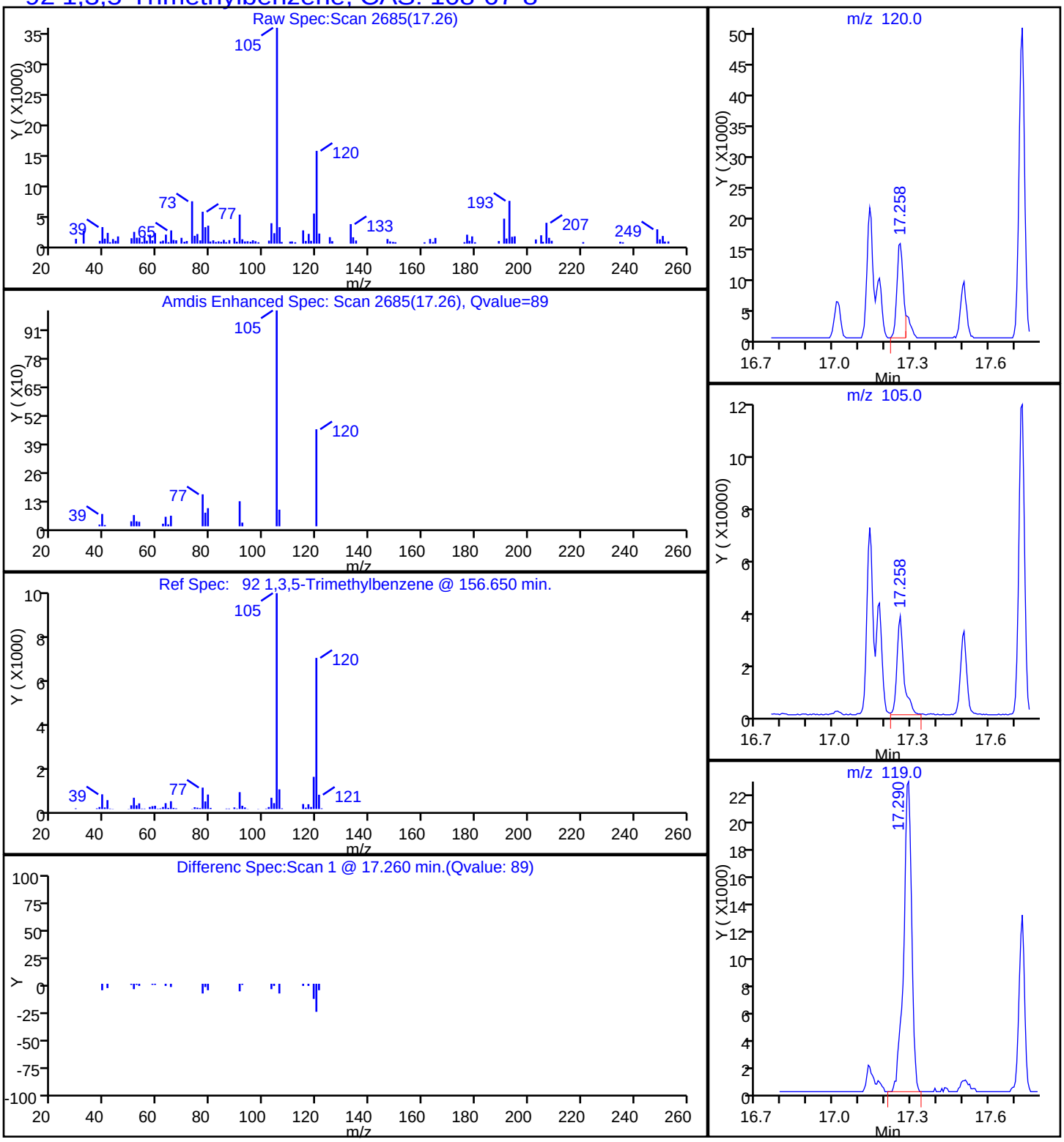




TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

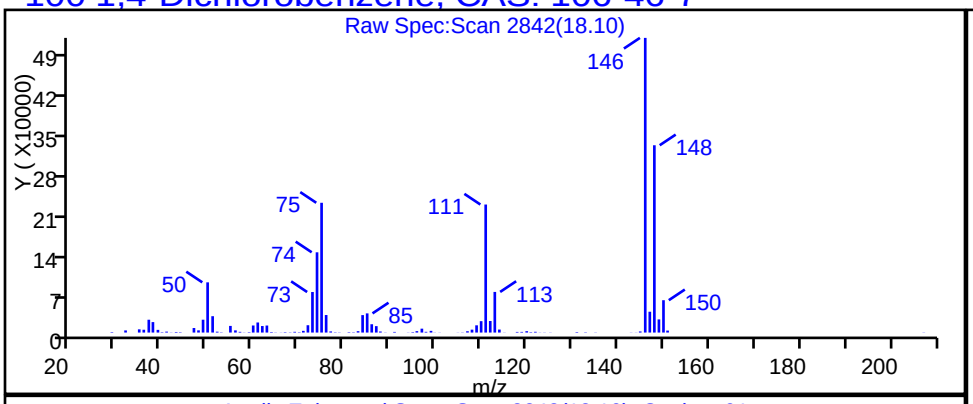
92 1,3,5-Trimethylbenzene, CAS: 108-67-8

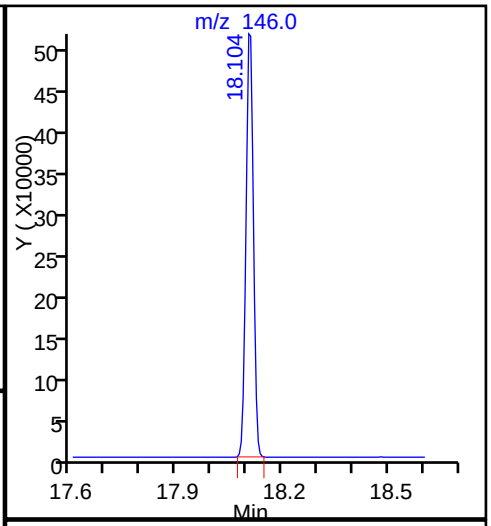


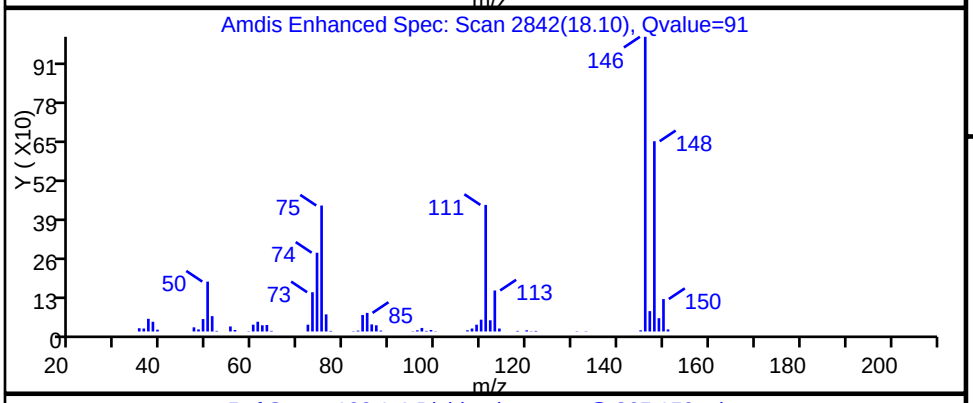
TestAmerica Knoxville

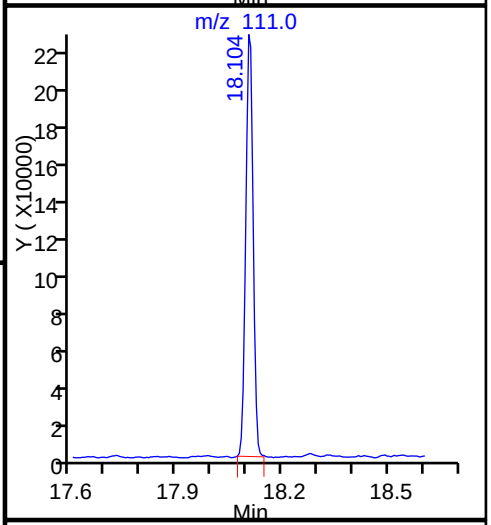
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Injection Date: 01-Sep-2016 15:51:30 Instrument ID: ME
Lims ID: 140-5720-A-5 Lab Sample ID: 140-5720-5
Client ID: SG-211
Operator ID: 007126 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6100
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

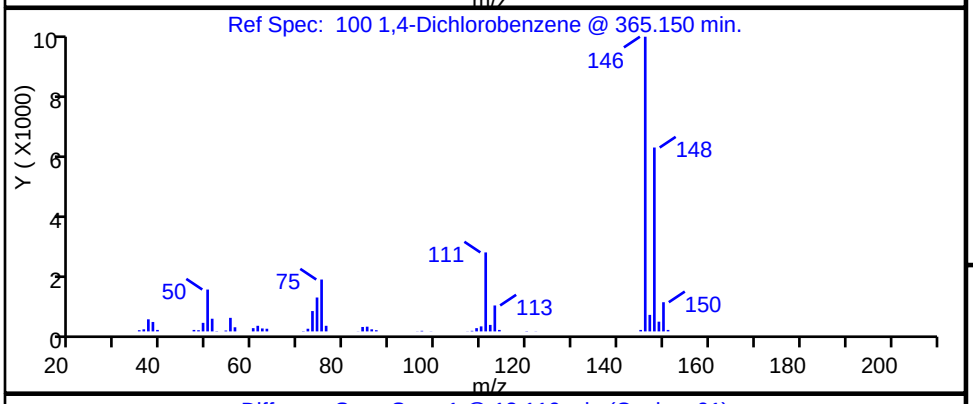
100 1,4-Dichlorobenzene, CAS: 106-46-7

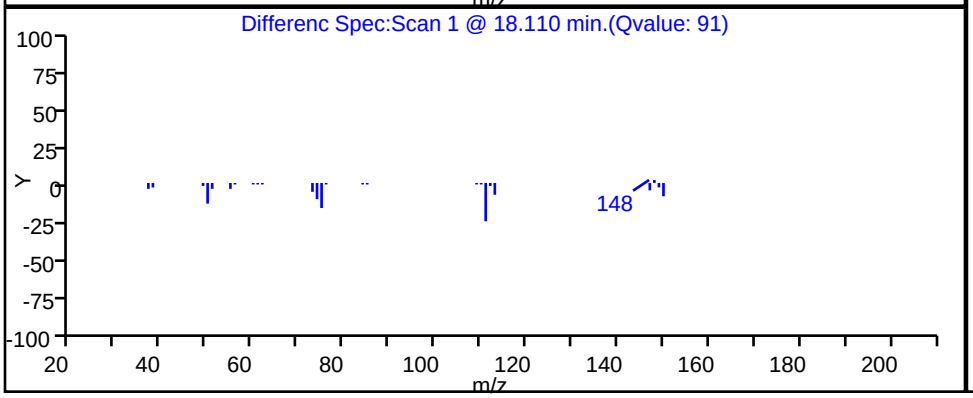


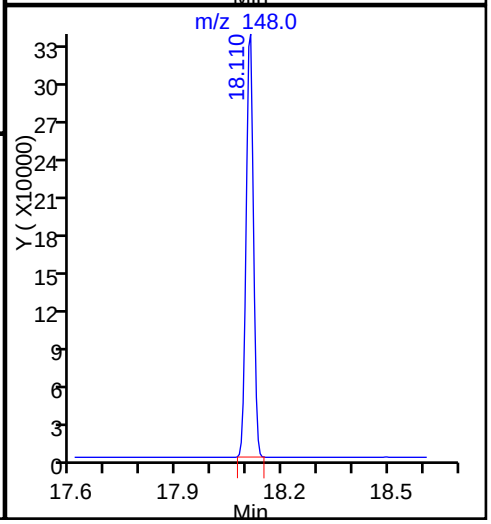








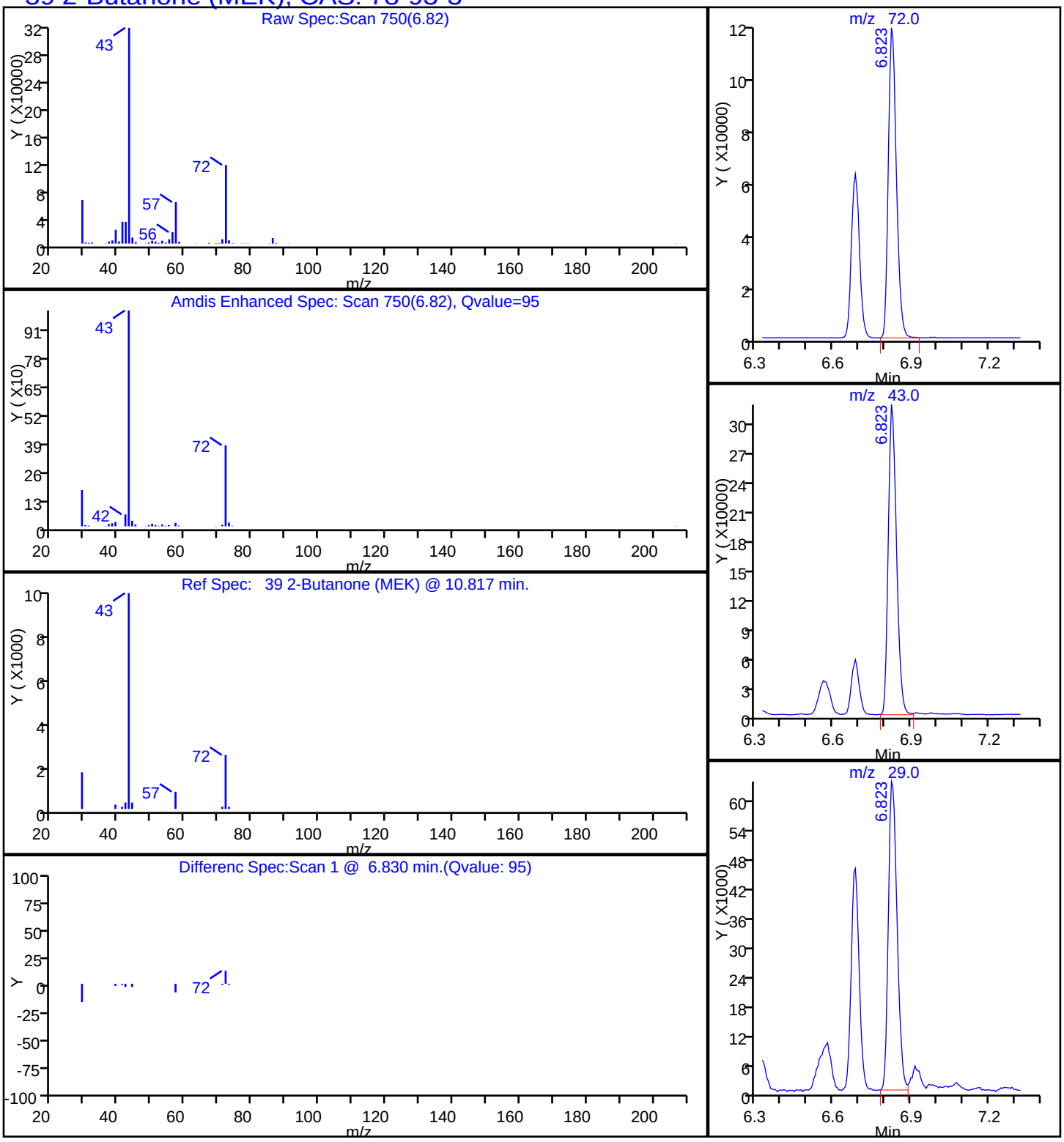




TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D		
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5
Client ID:	SG-211		
Operator ID:	007126	ALS Bottle#:	6 Worklist Smp#: 9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

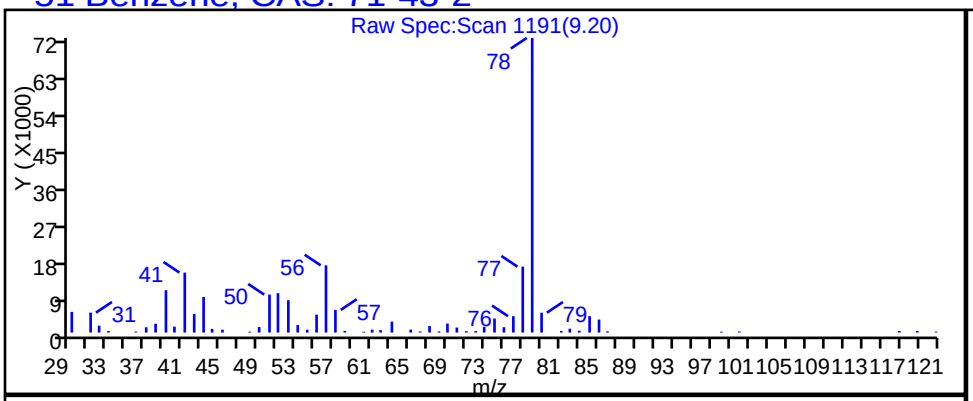
39 2-Butanone (MEK), CAS: 78-93-3

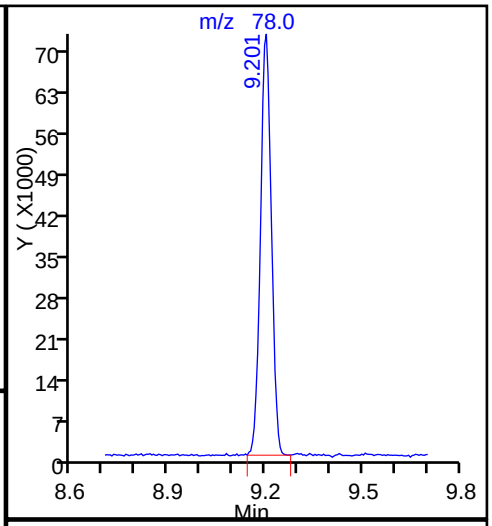


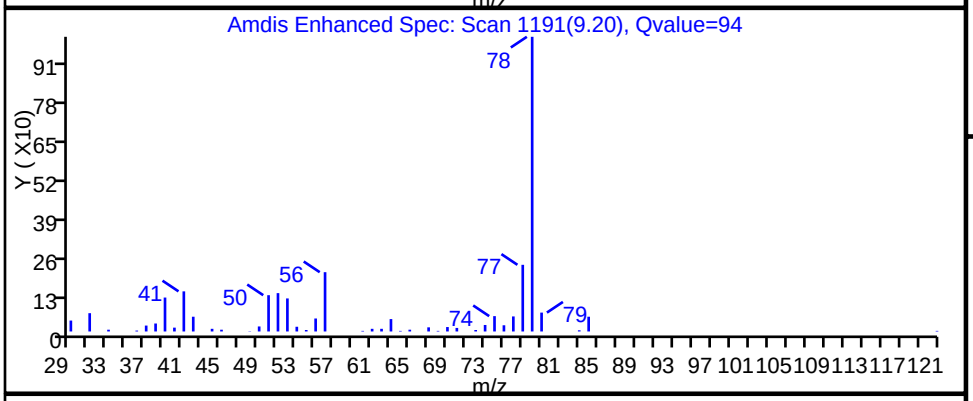
TestAmerica Knoxville

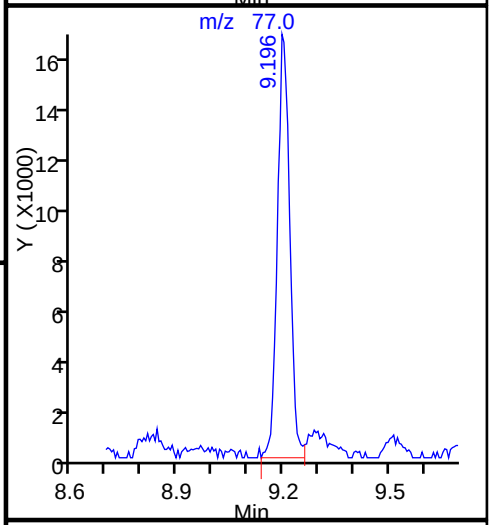
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Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

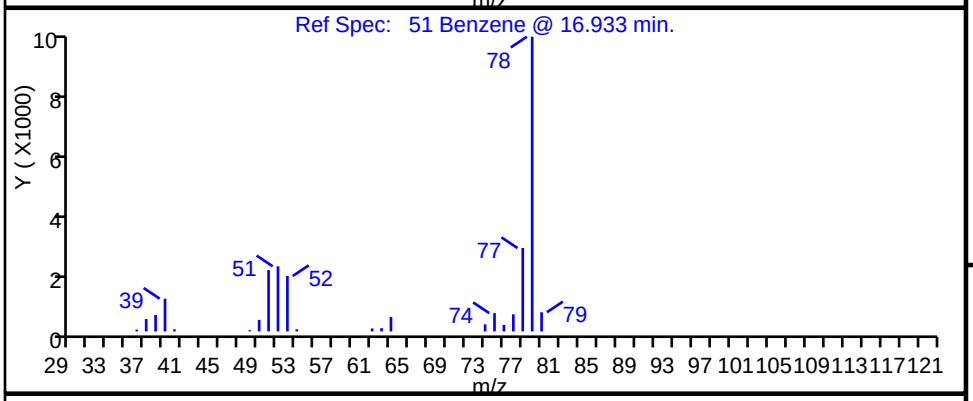
51 Benzene, CAS: 71-43-2

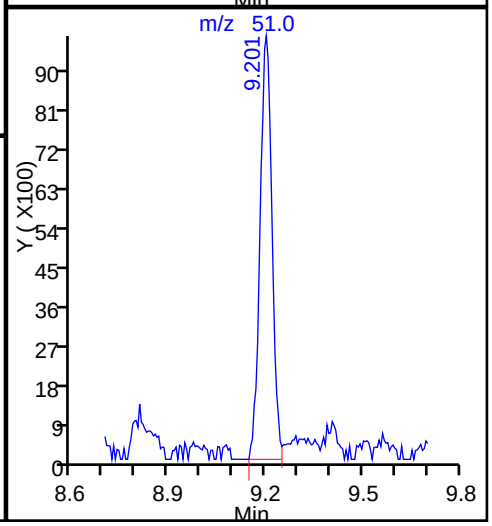


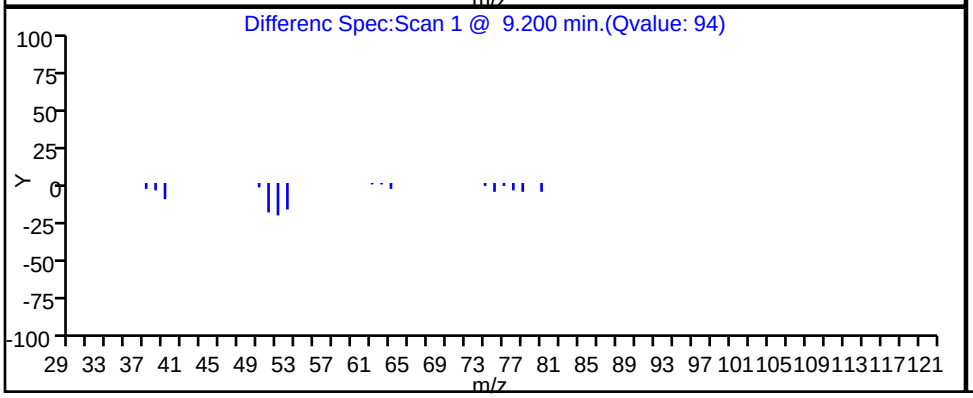








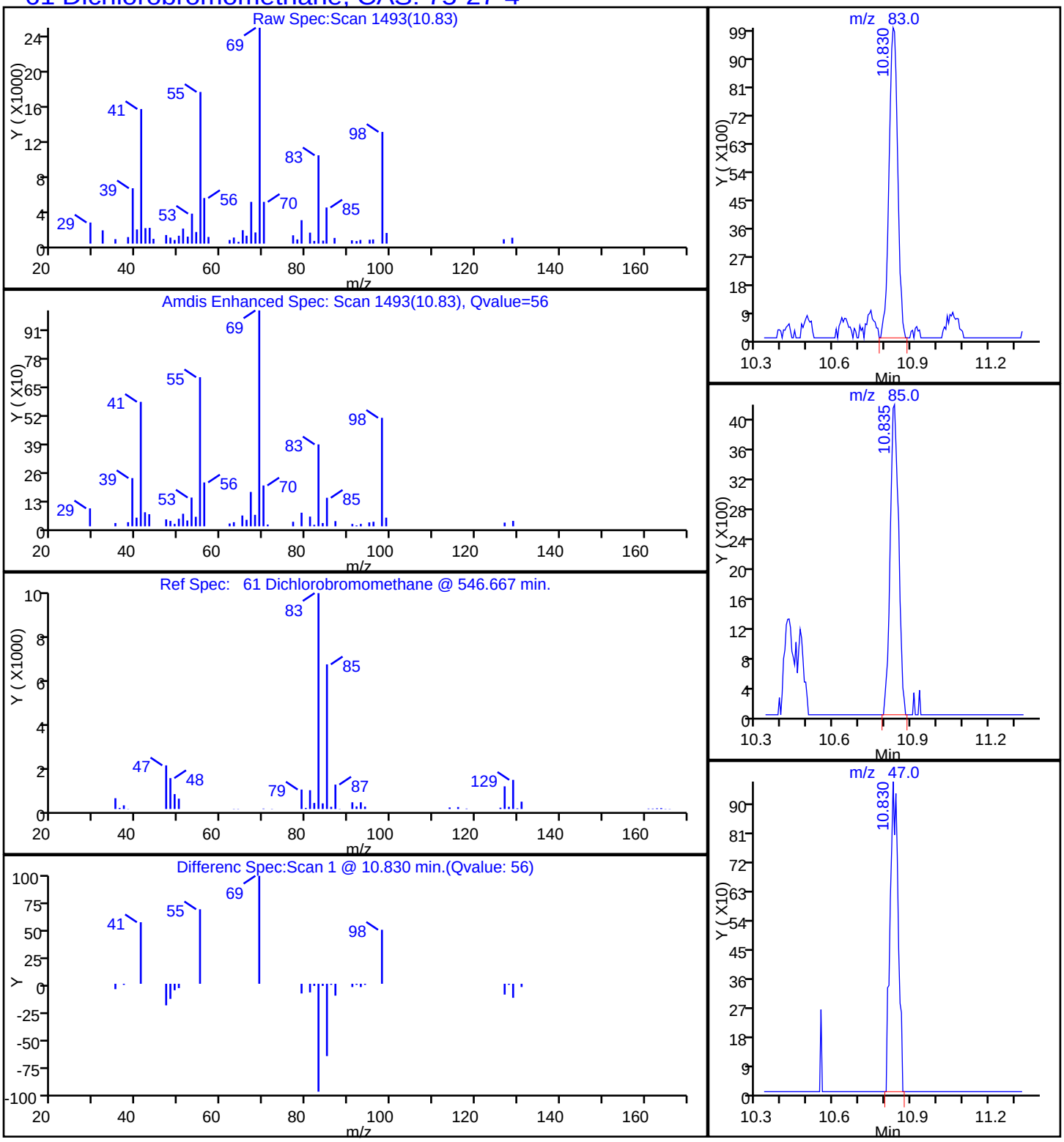




TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

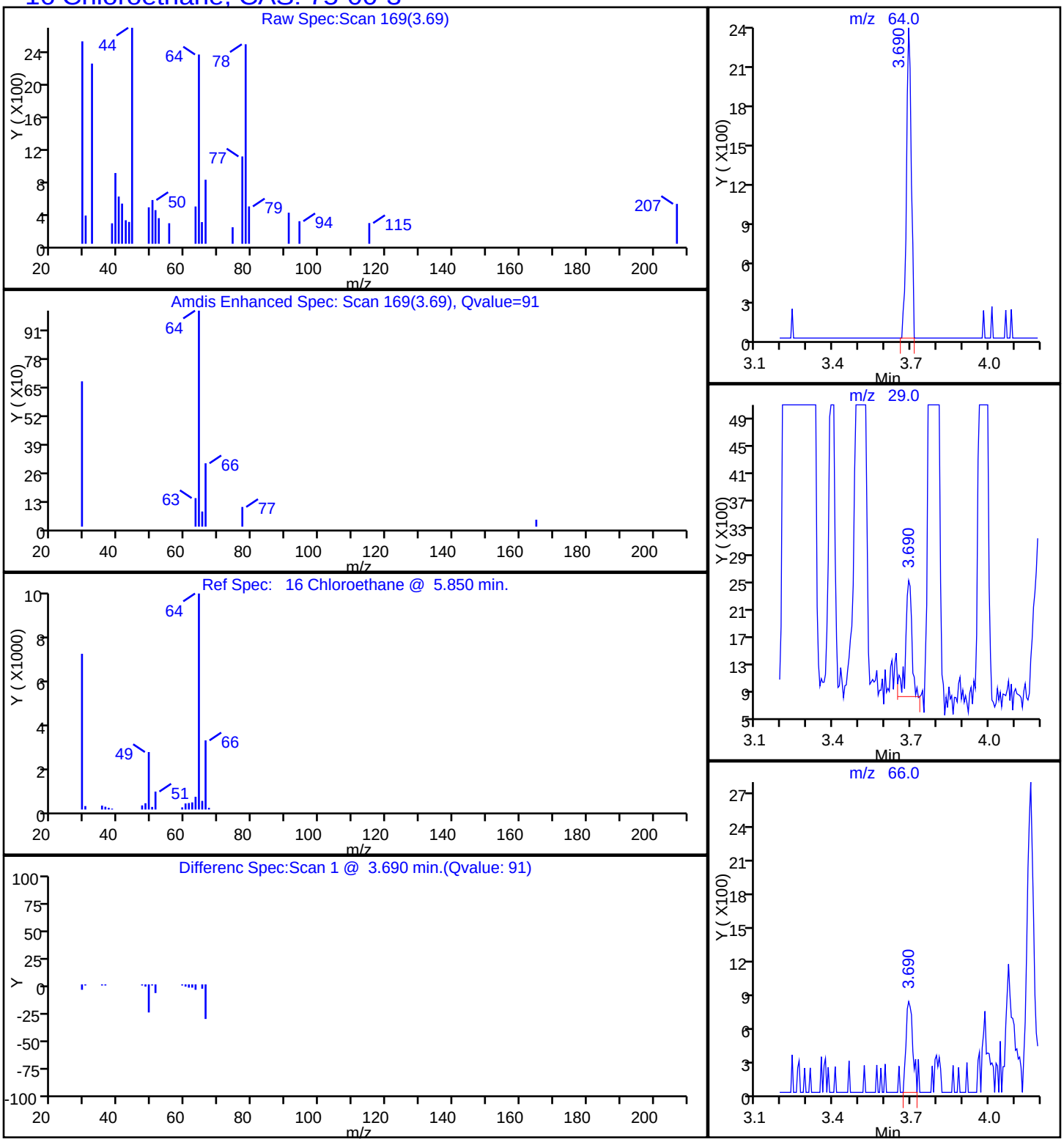
61 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

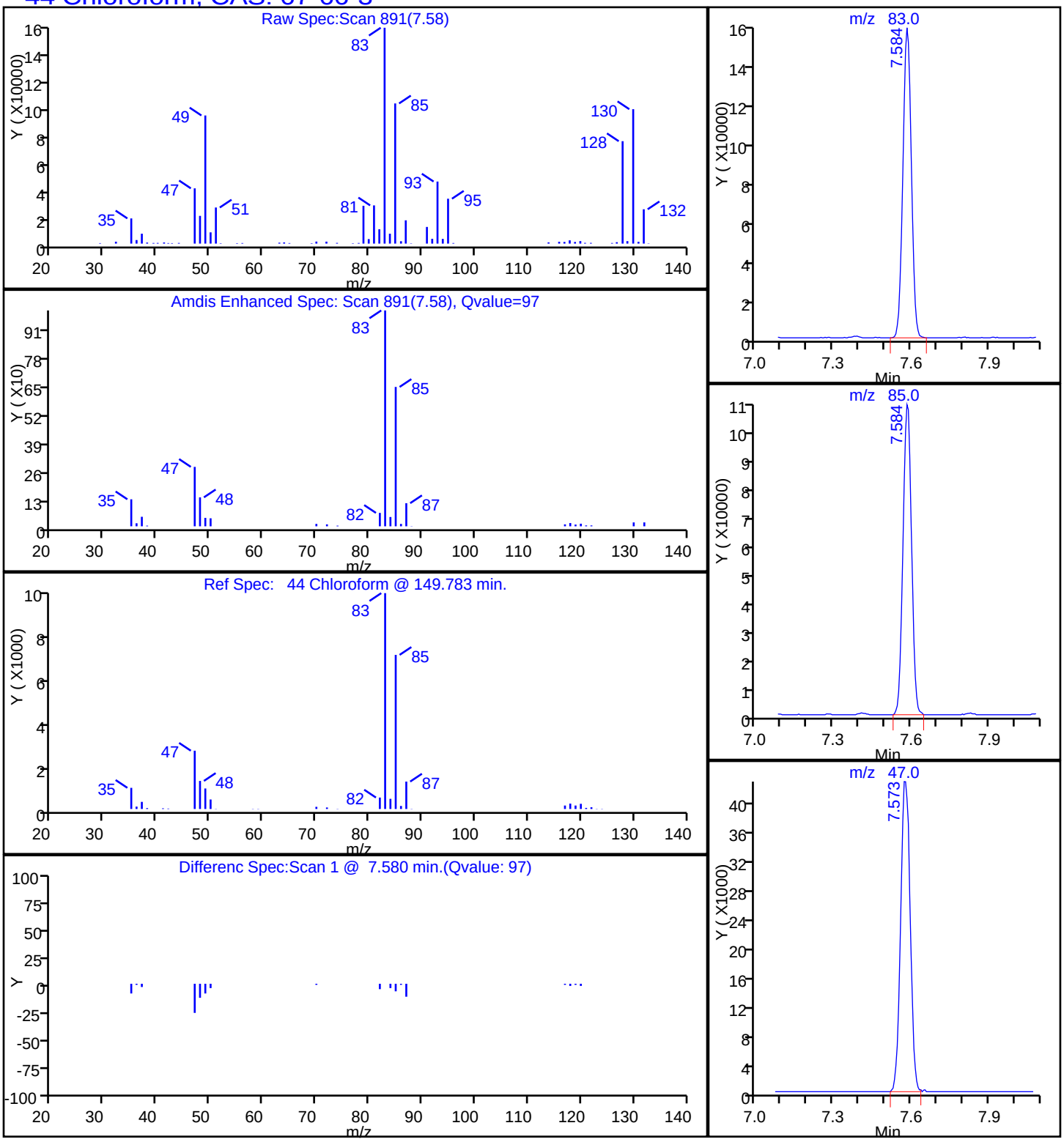
16 Chloroethane, CAS: 75-00-3



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

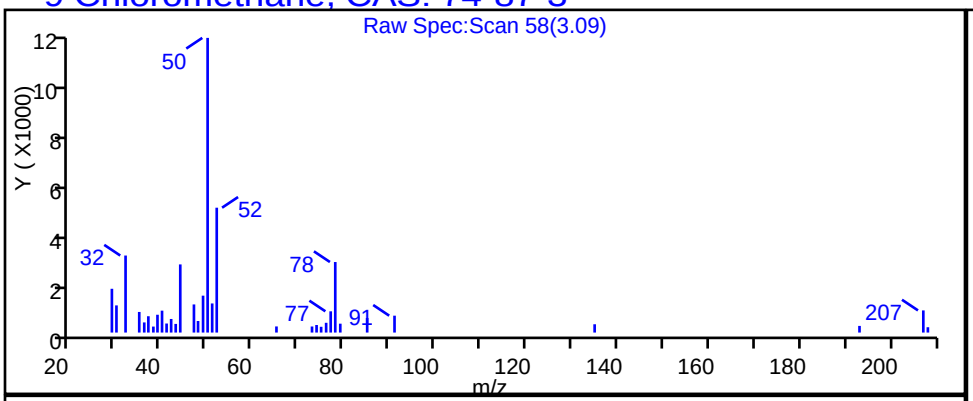
44 Chloroform, CAS: 67-66-3

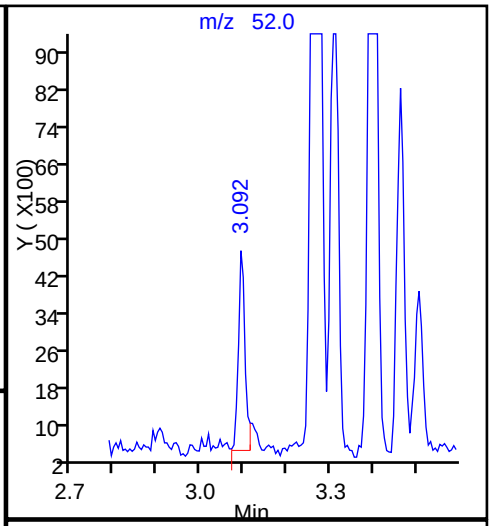


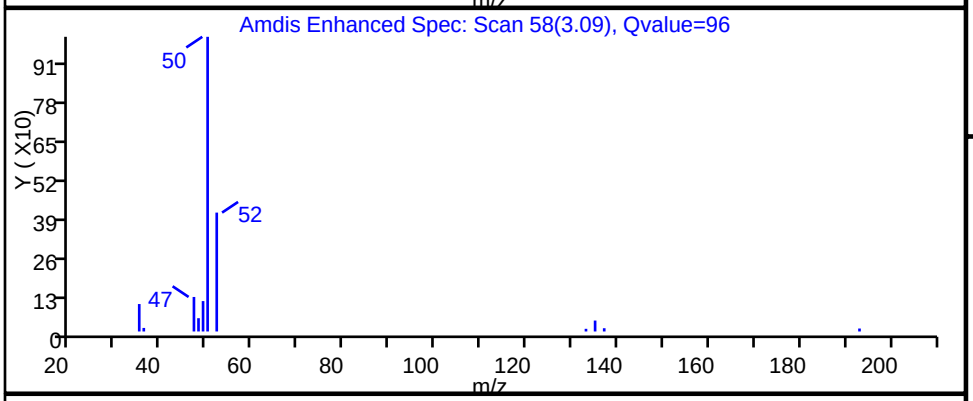
TestAmerica Knoxville

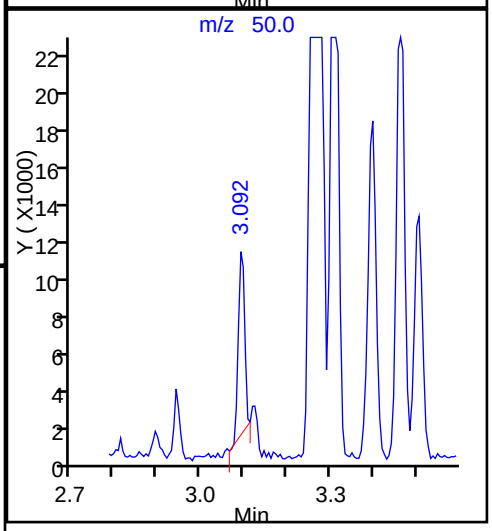
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Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

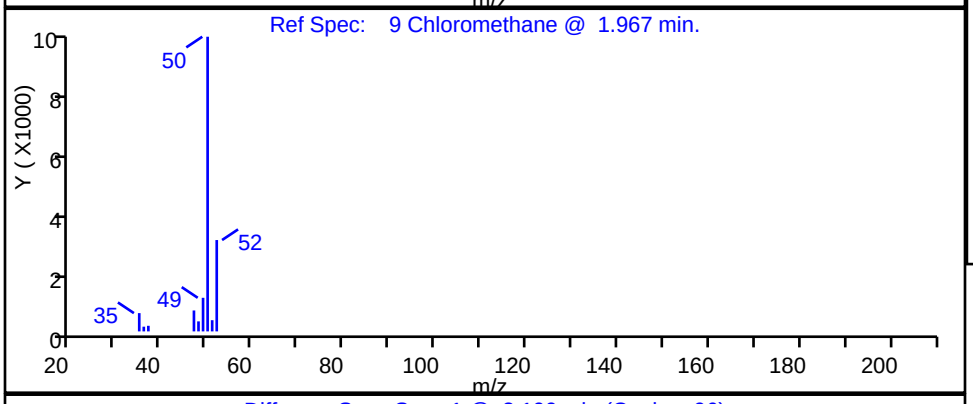
9 Chloromethane, CAS: 74-87-3

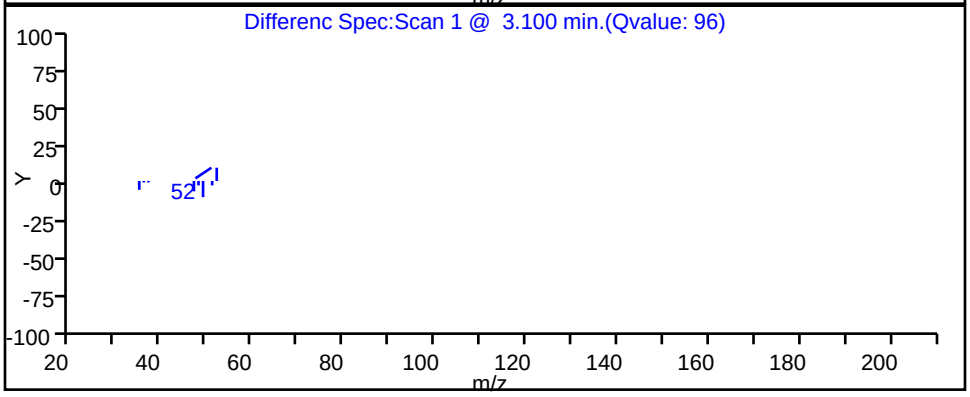








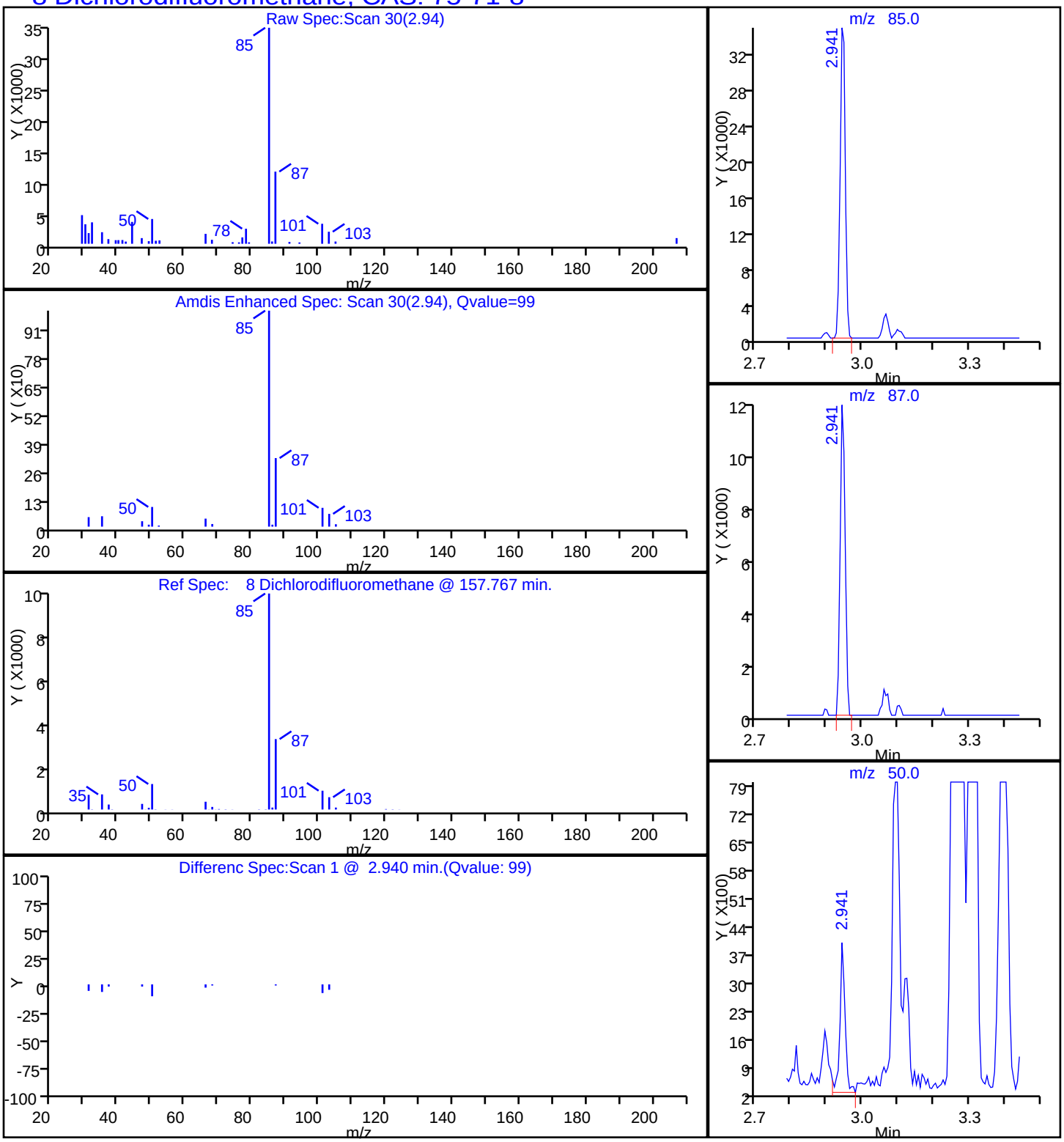




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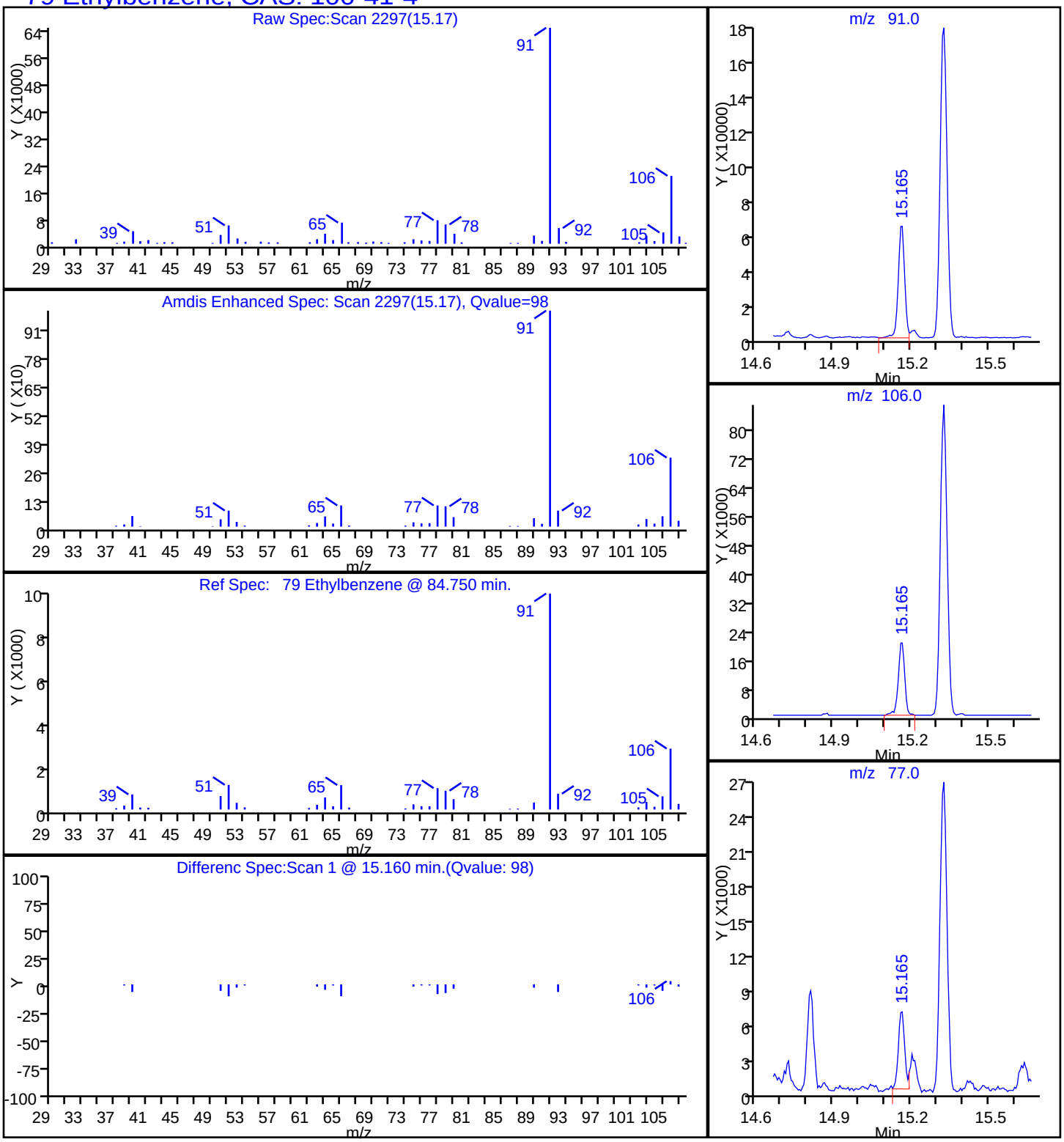
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Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D
Injection Date: 01-Sep-2016 15:51:30 Instrument ID: ME
Lims ID: 140-5720-A-5 Lab Sample ID: 140-5720-5
Client ID: SG-211
Operator ID: 007126 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6100
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

79 Ethylbenzene, CAS: 100-41-4

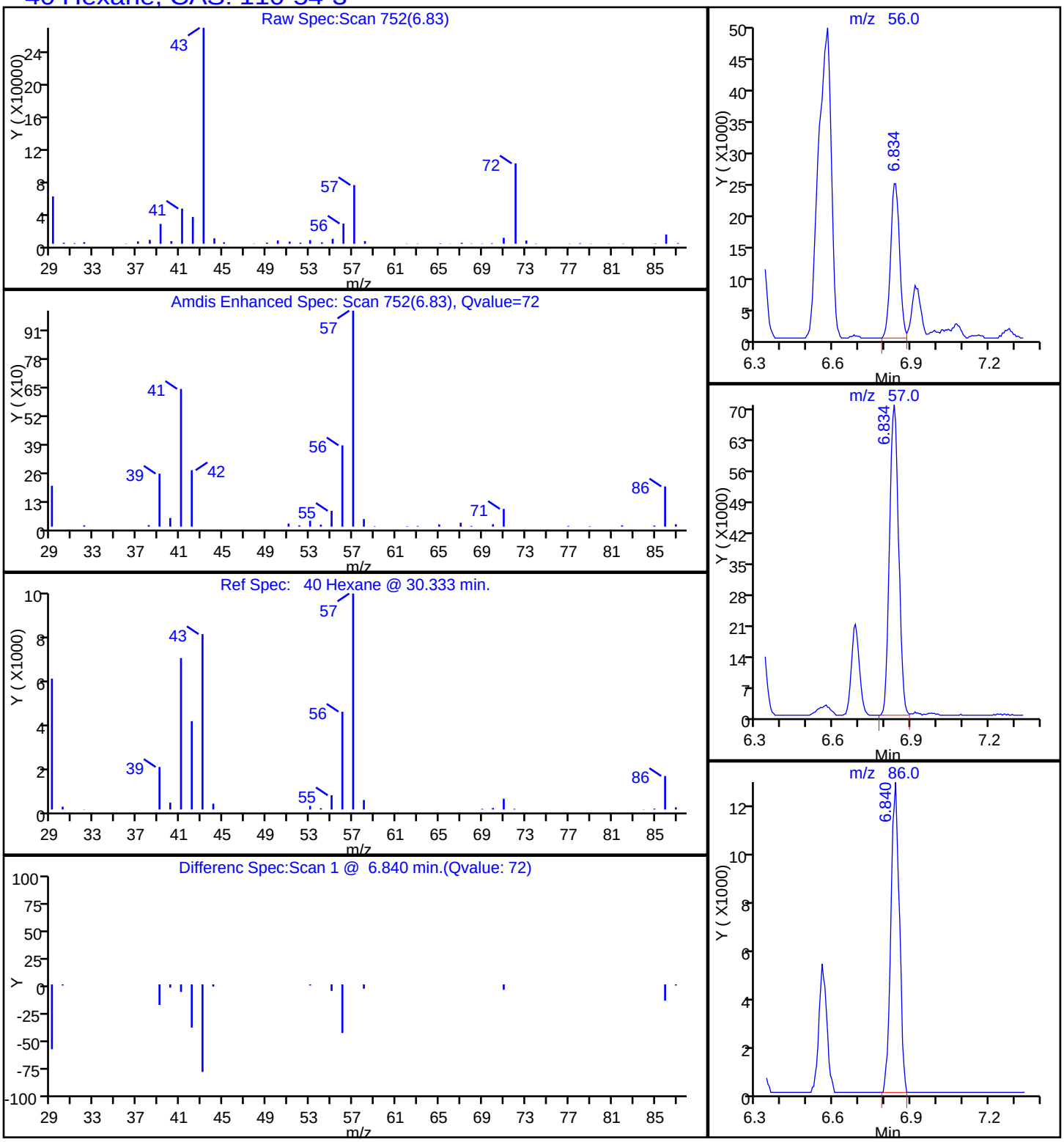


Report Date: 01-Sep-2016 16:36:01 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

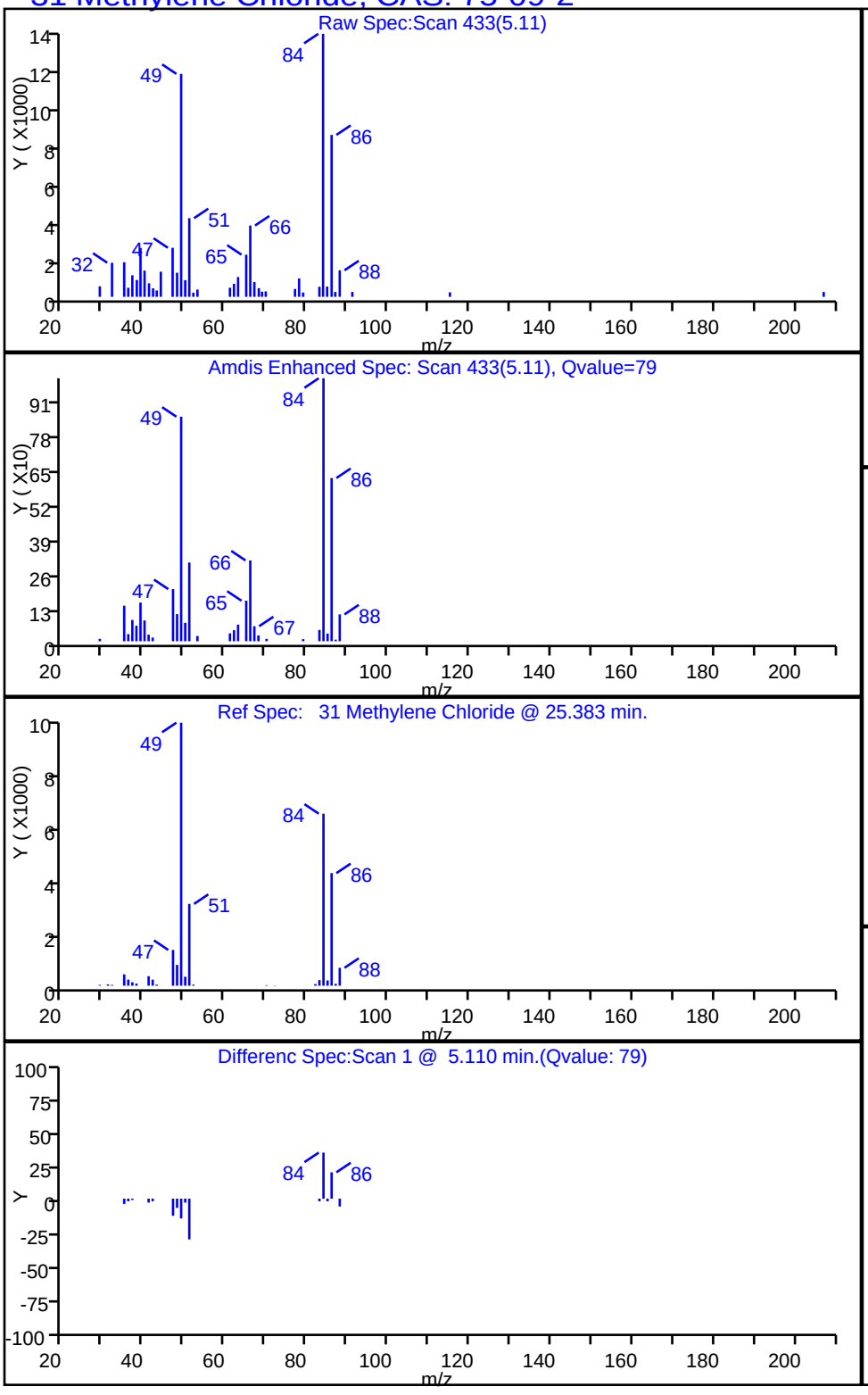
40 Hexane, CAS: 110-54-3

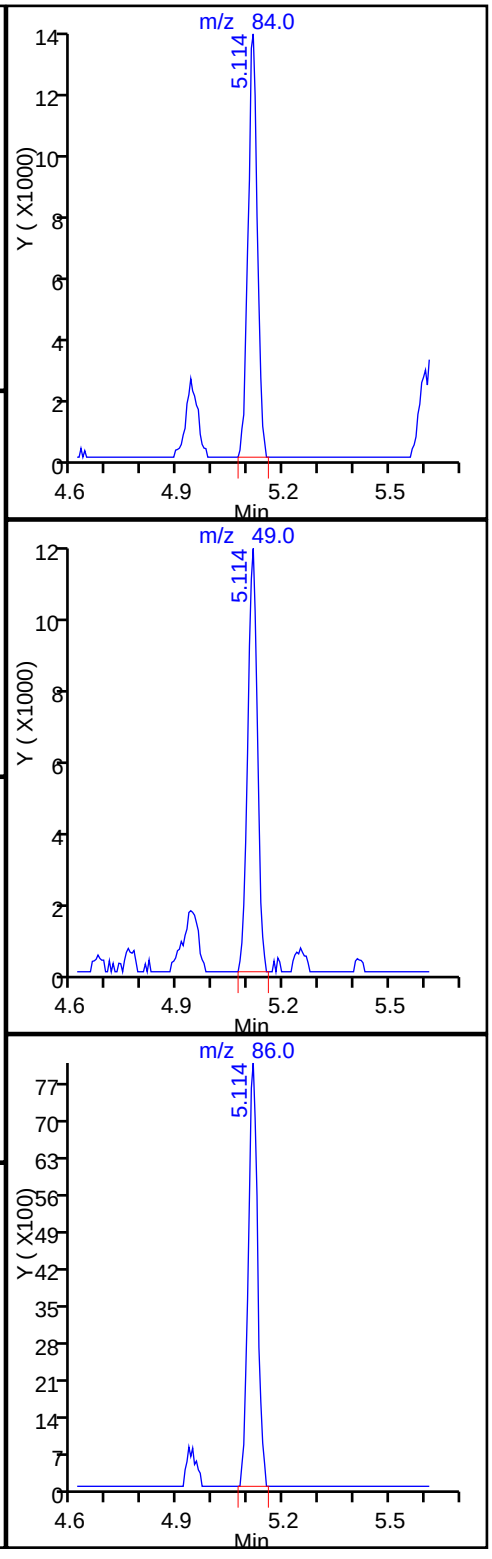


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

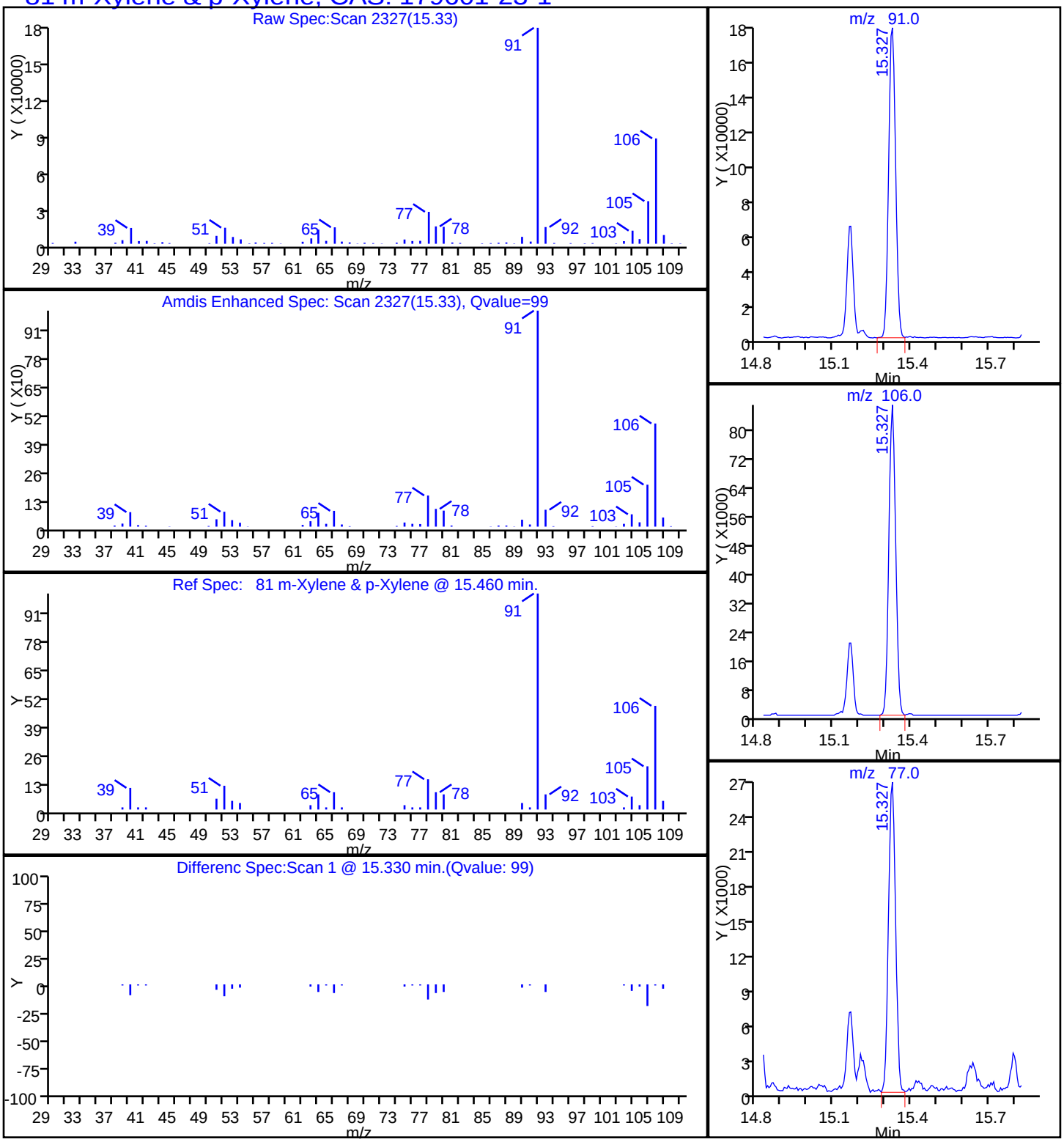
31 Methylene Chloride, CAS: 75-09-2





Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D
Injection Date: 01-Sep-2016 15:51:30 Instrument ID: ME
Lims ID: 140-5720-A-5 Lab Sample ID: 140-5720-5
Client ID: SG-211
Operator ID: 007126 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6100
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

81 m-Xylene & p-Xylene, CAS: 179601-23-1



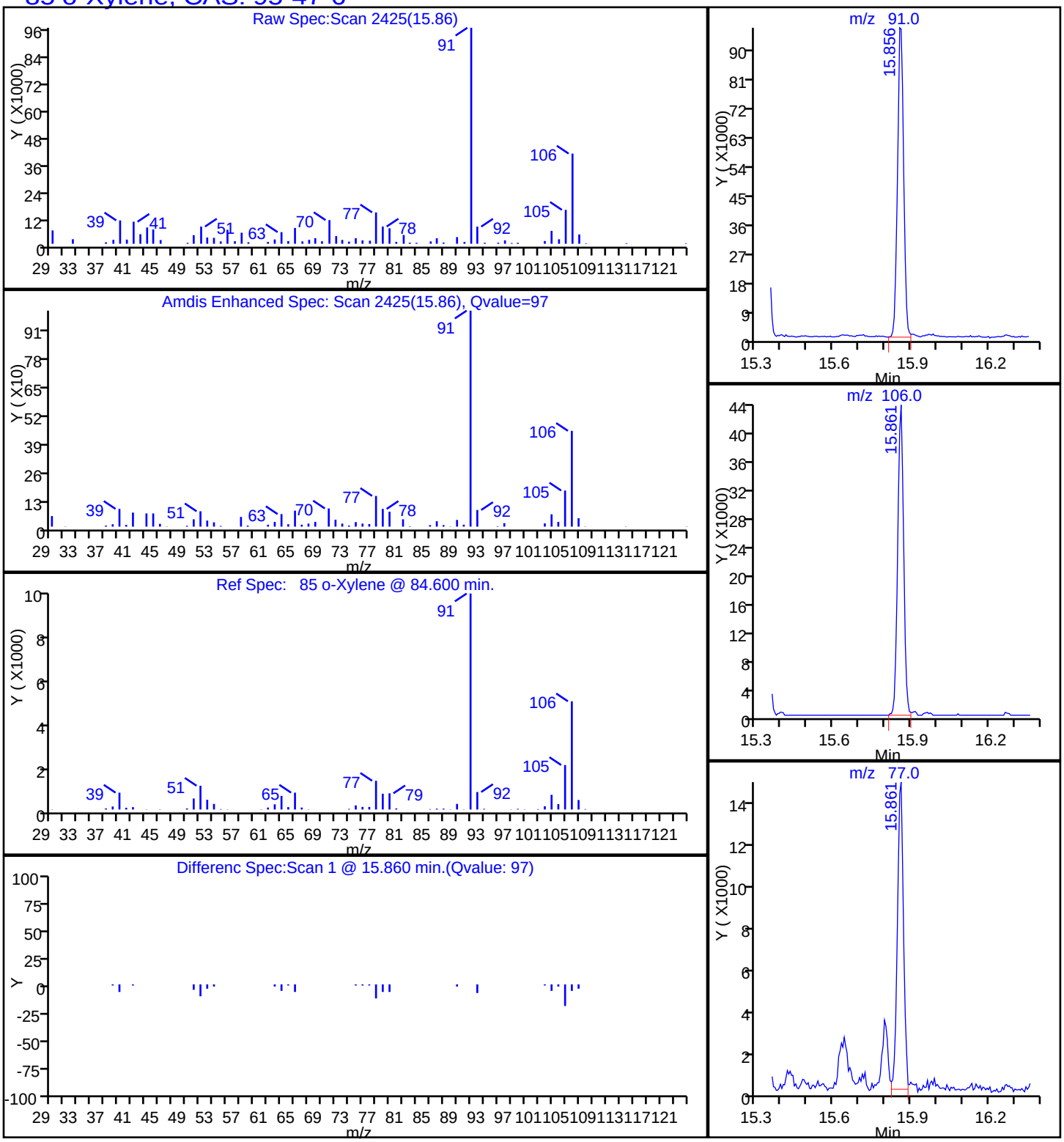
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D

Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

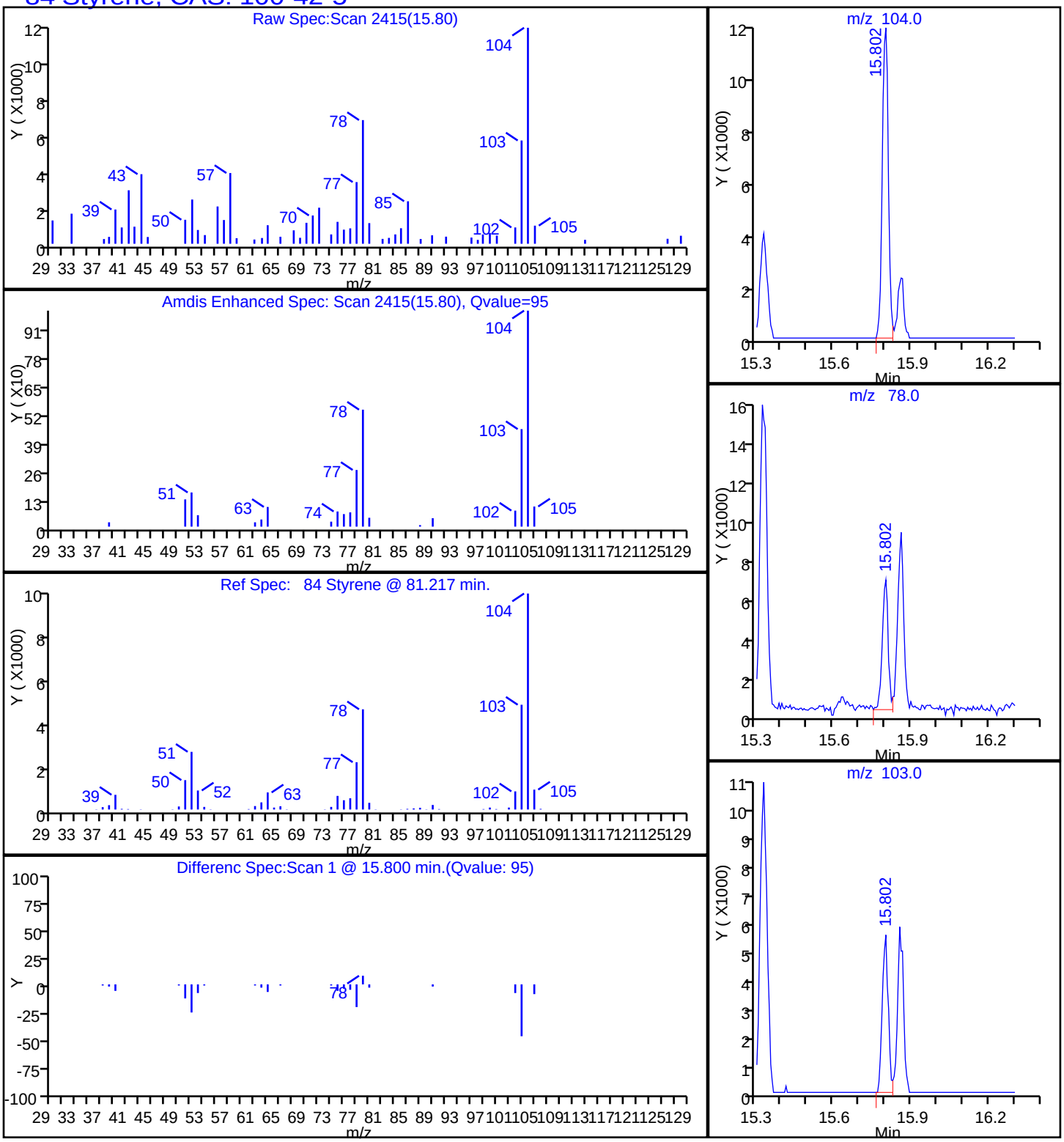
85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

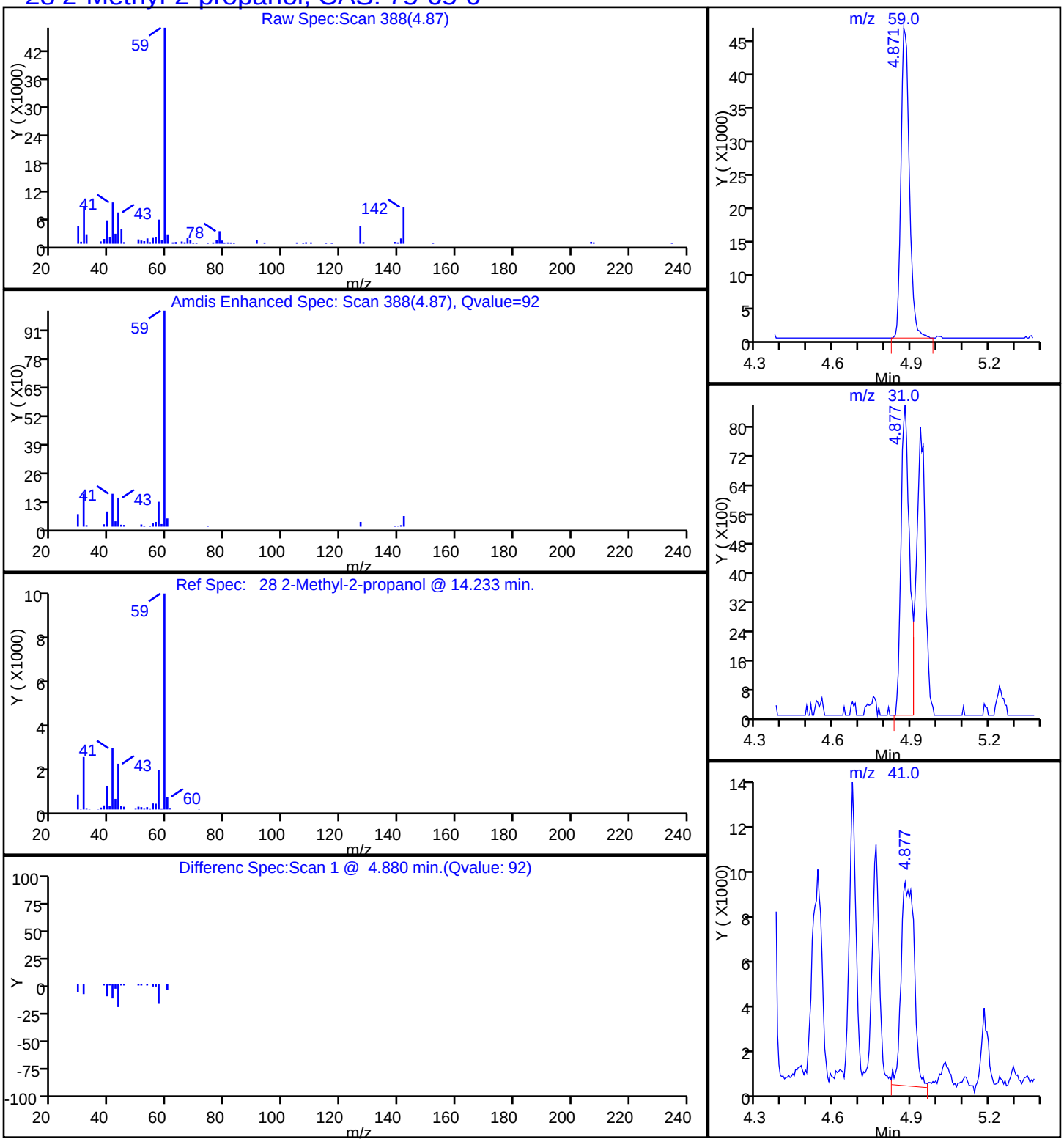
84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

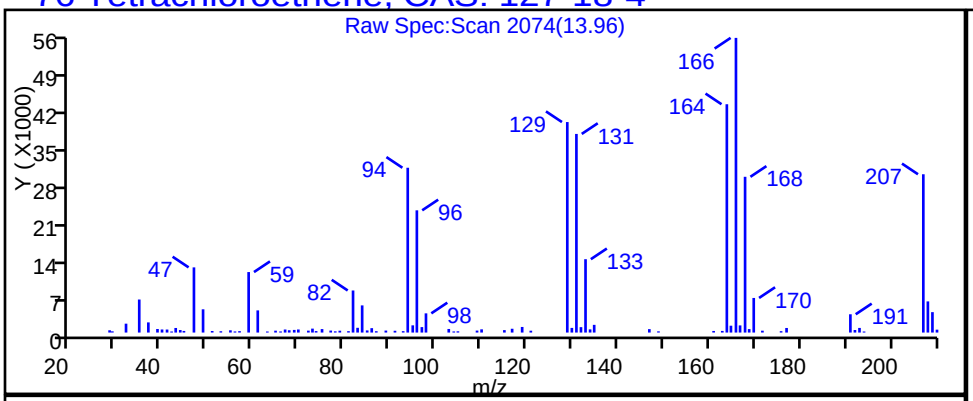
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Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

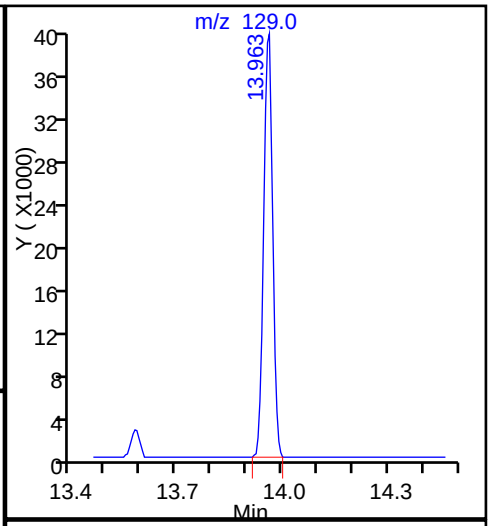
28 2-Methyl-2-propanol, CAS: 75-65-0

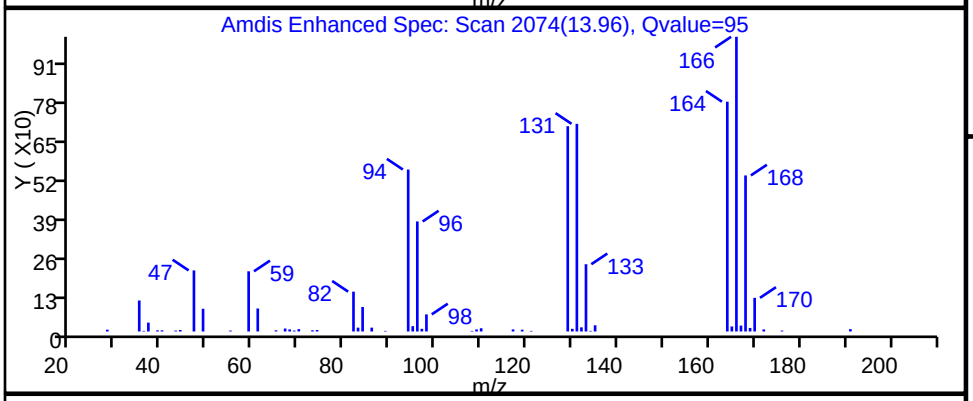


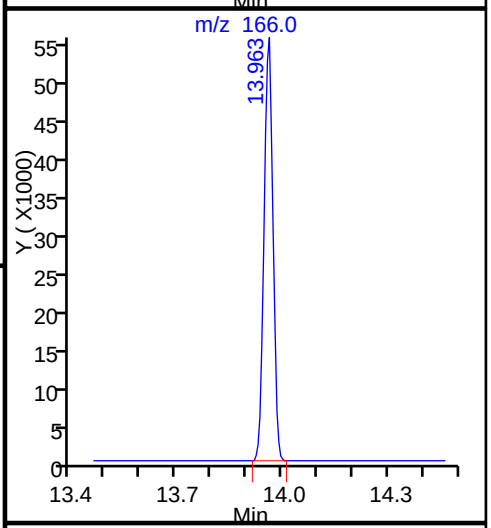
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Injection Date: 01-Sep-2016 15:51:30 Instrument ID: ME
Lims ID: 140-5720-A-5 Lab Sample ID: 140-5720-5
Client ID: SG-211
Operator ID: 007126 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.6100
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

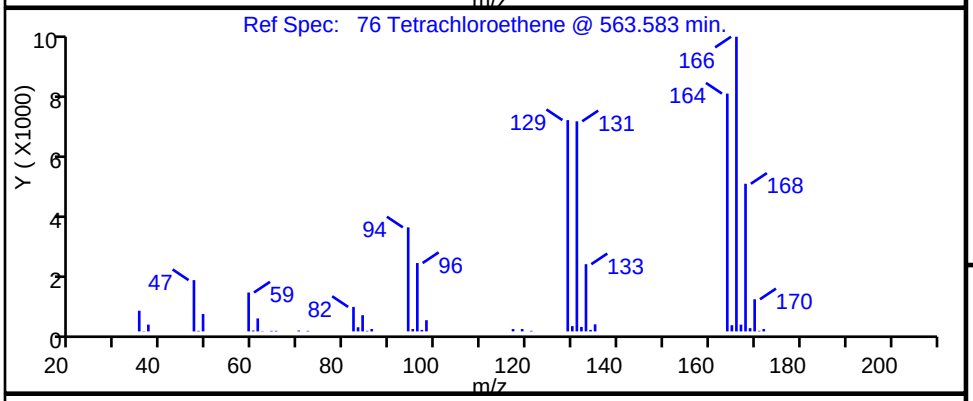
76 Tetrachloroethene, CAS: 127-18-4

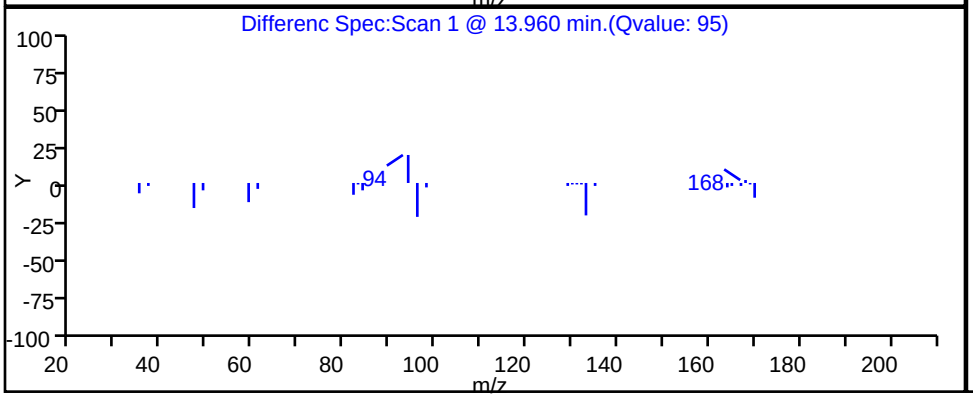


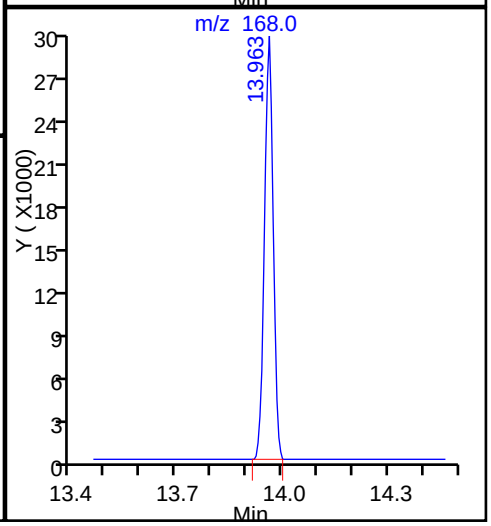








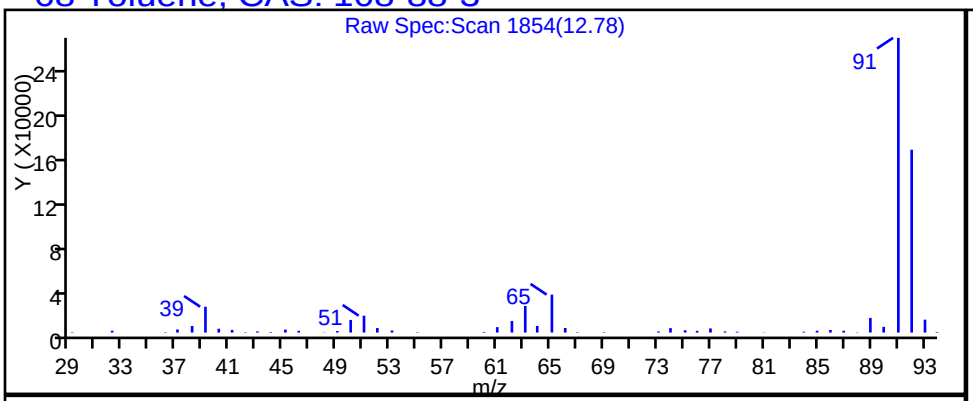


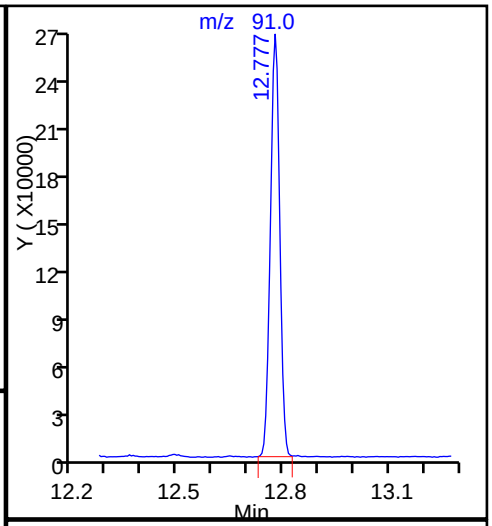


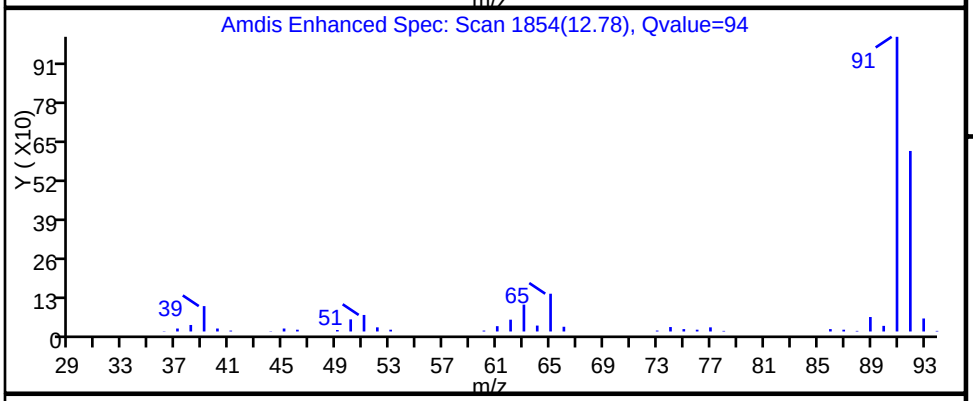
TestAmerica Knoxville

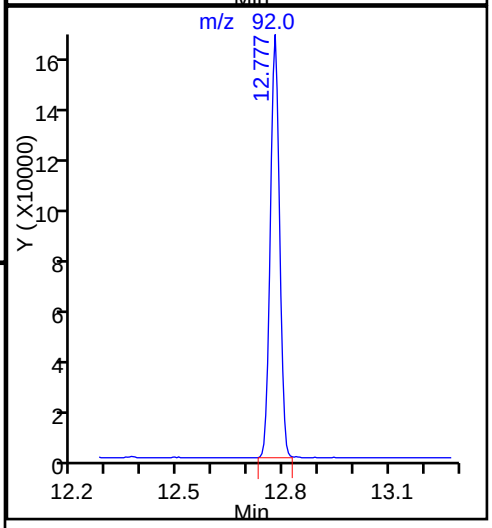
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

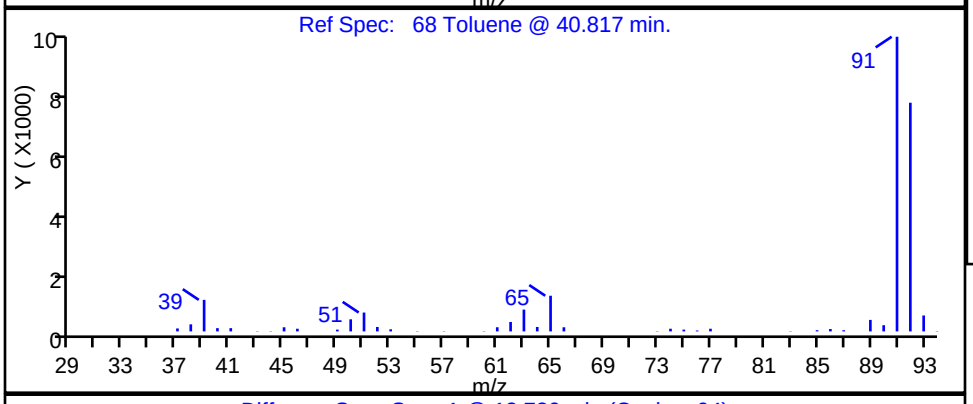
68 Toluene, CAS: 108-88-3

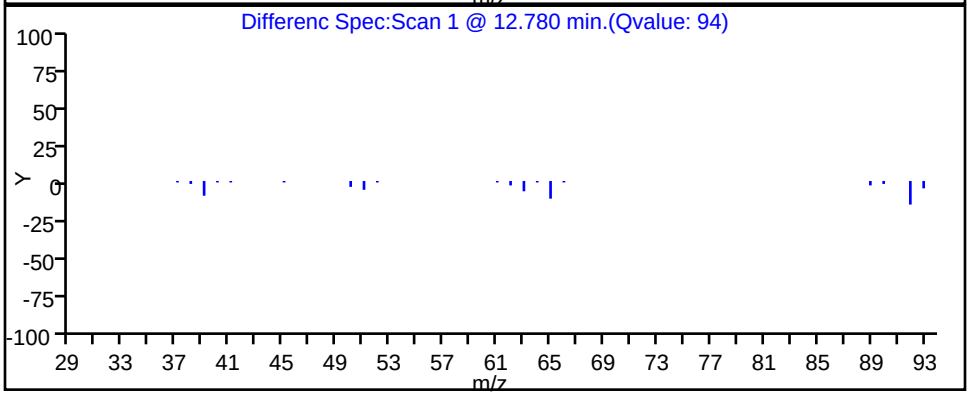








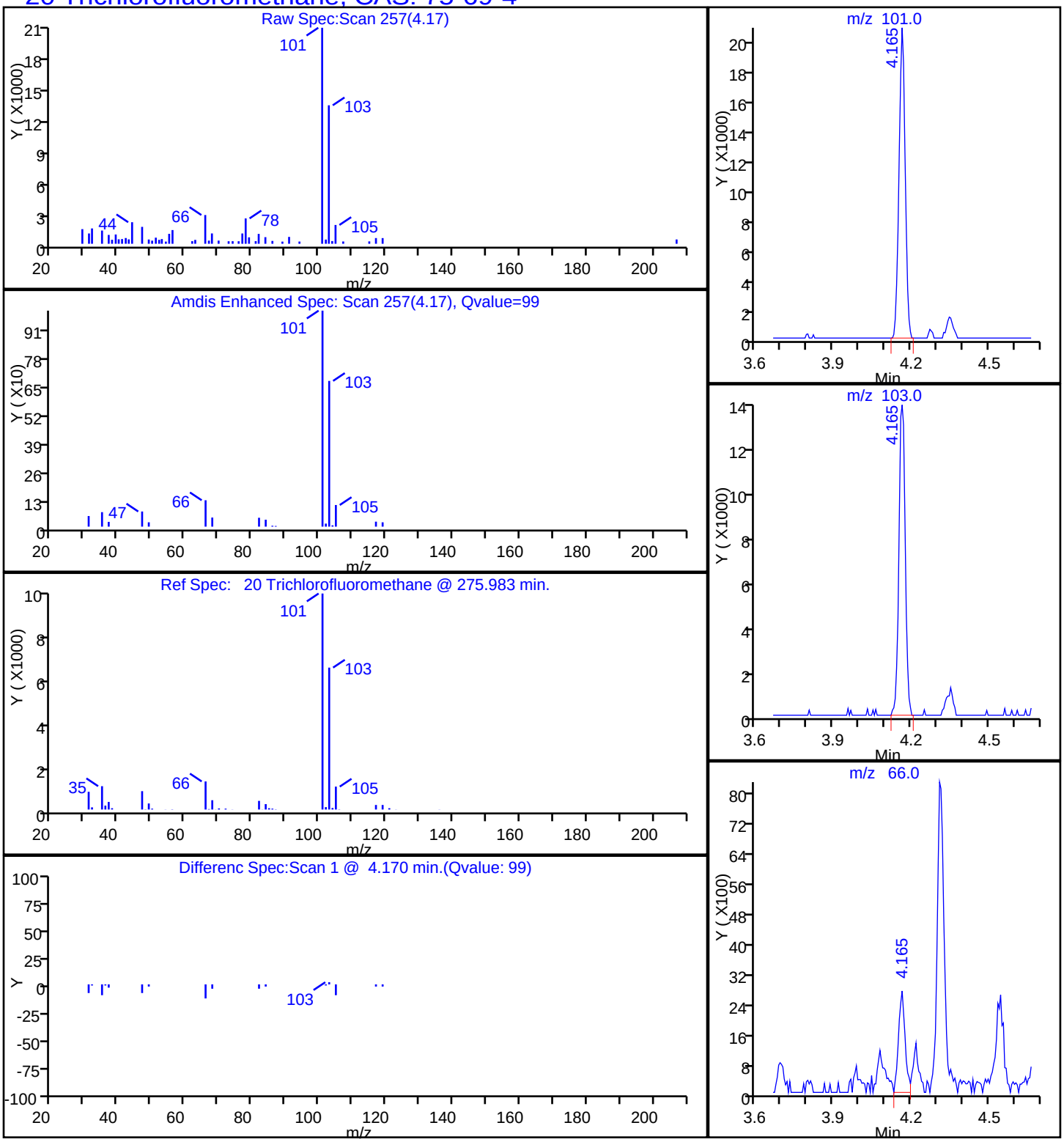




TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

20 Trichlorofluoromethane, CAS: 75-69-4



Manual Integration/User Assign Peak Report

TestAmerica Knoxville

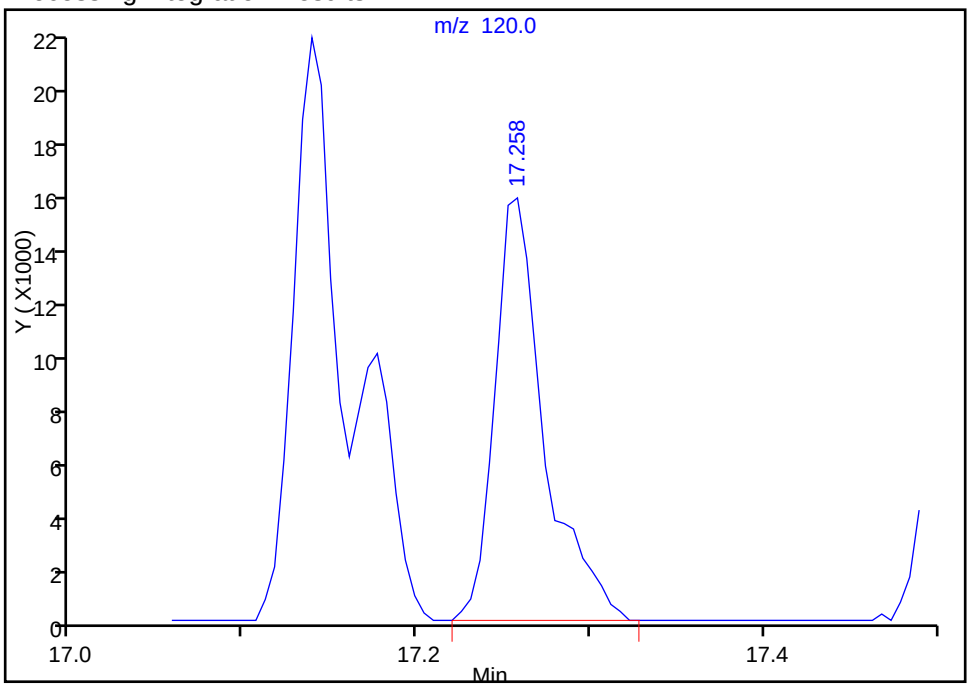
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Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

92 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

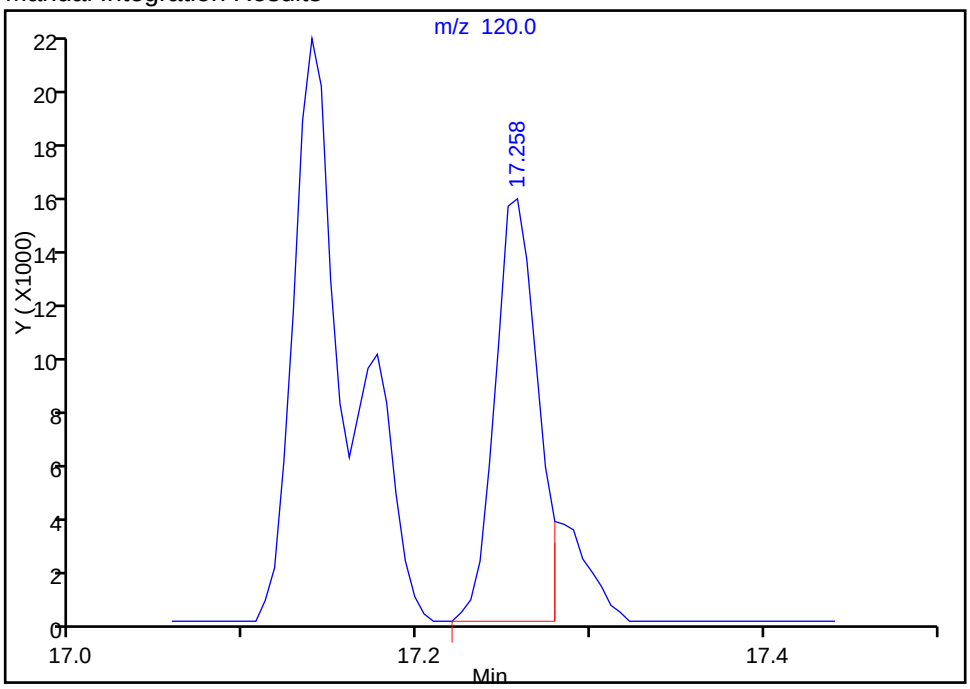
Processing Integration Results

RT: 17.26
Area: 30600
Amount: 0.176995
Amount Units: ppb v/v



Manual Integration Results

RT: 17.26
Area: 26368
Amount: 0.152516
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 01-Sep-2016 16:35:59

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Knoxville

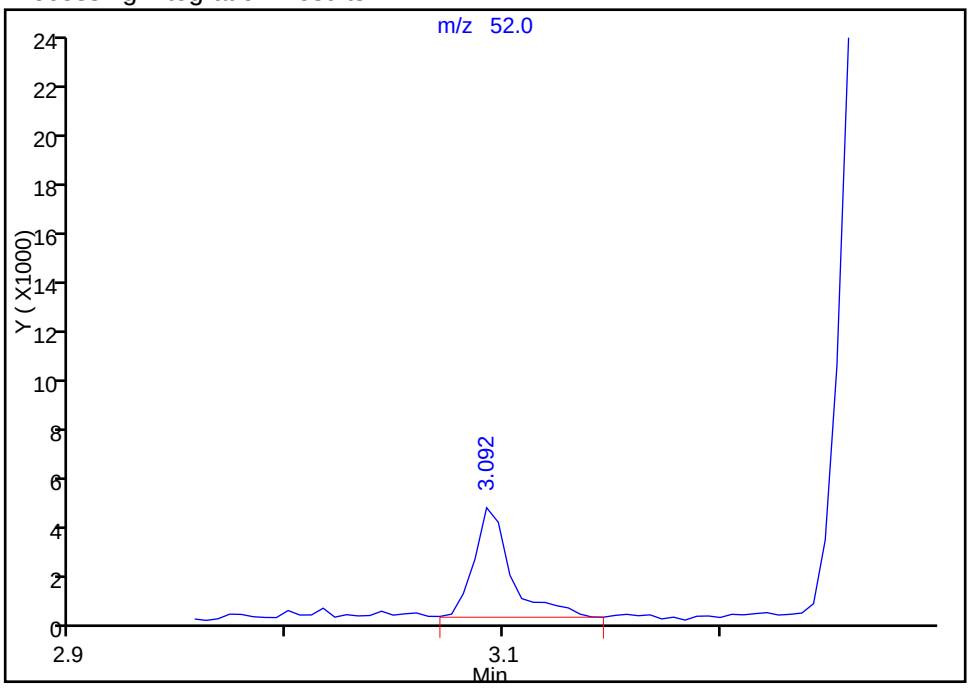
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P106.D				
Injection Date:	01-Sep-2016 15:51:30	Instrument ID:	ME		
Lims ID:	140-5720-A-5	Lab Sample ID:	140-5720-5		
Client ID:	SG-211				
Operator ID:	007126	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	500.000 mL	Dil. Factor:	1.6100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

9 Chloromethane, CAS: 74-87-3

Signal: 1

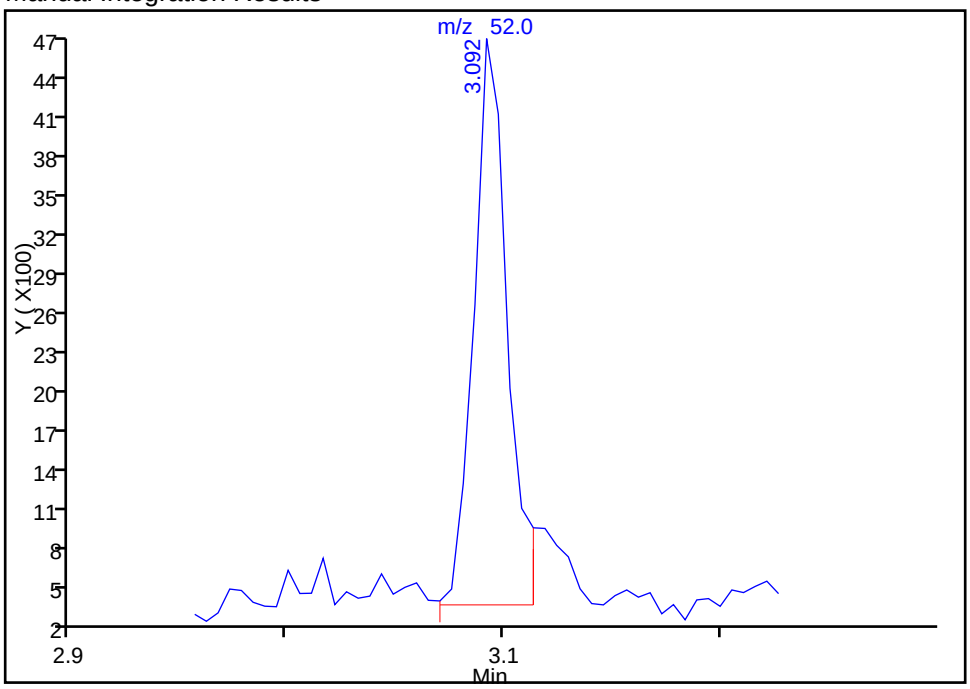
Processing Integration Results

RT: 3.09
Area: 5167
Amount: 0.300845
Amount Units: ppb v/v



Manual Integration Results

RT: 3.09
Area: 4668
Amount: 0.271791
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 01-Sep-2016 16:29:45

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.: 140-5720-1

SDG No.:

Client Sample ID: SG-213 | Lab Sample ID: 140-5720-6

Matrix: Air | Lab File ID: EI01P107R.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:15

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 23:25

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	1.4		0.19	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.19	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.19	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	0.42		0.19	
75-34-3	1,1-Dichloroethane	98.96	ND		0.19	
75-35-4	1,1-Dichloroethene	96.94	ND		0.19	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.19	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.19	
106-93-4	1,2-Dibromoethane	187.87	ND		0.19	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.19	
107-06-2	1,2-Dichloroethane	98.96	ND		0.19	
78-87-5	1,2-Dichloropropane	112.99	ND		0.19	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.19	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.58		0.19	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.19	
106-46-7	1,4-Dichlorobenzene	147.00	2.8		0.19	
123-91-1	1,4-Dioxane	88.11	ND		0.47	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.47	
78-93-3	2-Butanone	72.11	9.2		0.76	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.0		0.47	
71-43-2	Benzene	78.11	3.9		0.19	
100-44-7	Benzyl chloride	126.58	ND		0.38	
75-27-4	Bromodichloromethane	163.83	ND		0.19	
75-25-2	Bromoform	252.75	ND		0.19	
74-83-9	Bromomethane	94.94	ND		0.19	
56-23-5	Carbon tetrachloride	153.81	ND		0.095	
108-90-7	Chlorobenzene	112.56	ND		0.19	
75-00-3	Chloroethane	64.52	ND		0.19	
67-66-3	Chloroform	119.38	1.0		0.19	
74-87-3	Chloromethane	50.49	ND		0.47	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.19	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.19	
110-82-7	Cyclohexane	84.16	0.48		0.47	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-213 | Lab Sample ID: 140-5720-6

Matrix: Air | Lab File ID: EI01P107R.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:15

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 23:25

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.19	
75-71-8	Dichlorodifluoromethane	120.91	0.19		0.19	
64-17-5	Ethanol	46.07	ND		4.7	
100-41-4	Ethylbenzene	106.17	1.3		0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		0.19	
110-54-3	Hexane	86.17	1.1		0.47	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.38	
75-09-2	Methylene Chloride	84.93	0.60		0.47	
179601-23-1	m-Xylene & p-Xylene	106.17	5.3		0.19	
95-47-6	o-Xylene	106.17	2.2		0.19	
100-42-5	Styrene	104.15	0.44		0.19	
75-65-0	t-Butyl alcohol	74.12	0.83		0.76	
127-18-4	Tetrachloroethene	165.83	7.6		0.19	
108-88-3	Toluene	92.14	5.2		0.28	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.19	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.19	
79-01-6	Trichloroethene	131.39	ND		0.095	
75-69-4	Trichlorofluoromethane	137.37	1.4		0.19	
75-01-4	Vinyl chloride	62.50	ND		0.095	

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.: 140-5720-1

SDG No.:

Client Sample ID: SG-213 Lab Sample ID: 140-5720-6

Matrix: Air Lab File ID: EI01P107R.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 13:15

Sample wt/vol: 300(mL) Date Analyzed: 09/01/2016 23:25

Soil Aliquot Vol: Dilution Factor: 1.42

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	7.7		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.3	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.0	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	3.2		1.5	
75-34-3	1,1-Dichloroethane	98.96	ND		0.77	
75-35-4	1,1-Dichloroethene	96.94	ND		0.75	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.4	
95-63-6	1,2,4-Trimethylbenzene	120.20	10		0.93	
106-93-4	1,2-Dibromoethane	187.87	ND		1.5	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.1	
107-06-2	1,2-Dichloroethane	98.96	ND		0.77	
78-87-5	1,2-Dichloropropane	112.99	ND		0.87	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		1.3	
108-67-8	1,3,5-Trimethylbenzene	120.20	2.8		0.93	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.1	
106-46-7	1,4-Dichlorobenzene	147.00	17		1.1	
123-91-1	1,4-Dioxane	88.11	ND		1.7	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.2	
78-93-3	2-Butanone	72.11	27		2.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.3		1.9	
71-43-2	Benzene	78.11	12		0.60	
100-44-7	Benzyl chloride	126.58	ND		2.0	
75-27-4	Bromodichloromethane	163.83	ND		1.3	
75-25-2	Bromoform	252.75	ND		2.0	
74-83-9	Bromomethane	94.94	ND		0.74	
56-23-5	Carbon tetrachloride	153.81	ND		0.60	
108-90-7	Chlorobenzene	112.56	ND		0.87	
75-00-3	Chloroethane	64.52	ND		0.50	
67-66-3	Chloroform	119.38	4.9		0.92	
74-87-3	Chloromethane	50.49	ND		0.98	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.75	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.86	
110-82-7	Cyclohexane	84.16	1.7		1.6	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-213 Lab Sample ID: 140-5720-6

Matrix: Air Lab File ID: EI01P107R.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 13:15

Sample wt/vol: 300(mL) Date Analyzed: 09/01/2016 23:25

Soil Aliquot Vol: Dilution Factor: 1.42

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		1.6	
75-71-8	Dichlorodifluoromethane	120.91	0.96		0.94	
64-17-5	Ethanol	46.07	ND		8.9	
100-41-4	Ethylbenzene	106.17	5.6		0.82	
87-68-3	Hexachlorobutadiene	260.76	ND		2.0	
110-54-3	Hexane	86.17	4.0		1.7	
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.4	
75-09-2	Methylene Chloride	84.93	2.1		1.6	
179601-23-1	m-Xylene & p-Xylene	106.17	23		0.82	
95-47-6	o-Xylene	106.17	9.6		0.82	
100-42-5	Styrene	104.15	1.9		0.81	
75-65-0	t-Butyl alcohol	74.12	2.5		2.3	
127-18-4	Tetrachloroethene	165.83	51		1.3	
108-88-3	Toluene	92.14	20		1.1	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.75	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.86	
79-01-6	Trichloroethene	131.39	ND		0.51	
75-69-4	Trichlorofluoromethane	137.37	8.1		1.1	
75-01-4	Vinyl chloride	62.50	ND		0.24	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P107R.D
Lims ID: 140-5720-A-6
Client ID: SG-213
Sample Type: Client
Inject. Date: 01-Sep-2016 23:25:30 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Sample Info: 140-0003369-019
Misc. Info.: 140-5720-a-6@1.42
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 12:33:40 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:33:40

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	7.573	7.568	0.005	74	247998	4.00	
*	2 1,4-Difluorobenzene	114	9.811	9.811	0.000	95	1158628	4.00	
*	3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1059098	4.00	
$	4 4-Bromofluorobenzene (Surr	95	16.481	16.487	-0.006	86	859583	3.97	
	8 Dichlorodifluoromethane	85	2.936	2.946	-0.010	99	21327	0.0818	
	9 Chloromethane	52	3.087	3.097	-0.010	97	2243	0.1340	M
	16 Chloroethane	64	3.696	3.696	0.000	2	503	0.0141	
	17 Ethanol	31	3.782	3.777	0.005	97	25427	1.45	
	20 Trichlorofluoromethane	101	4.170	4.165	0.005	99	152944	0.6058	
	28 2-Methyl-2-propanol	59	4.888	4.877	0.011	94	35869	0.3493	
	30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.942	0.005	94	28906	0.1773	
	31 Methylene Chloride	84	5.120	5.103	0.017	79	19669	0.2528	
	34 trans-1,2-Dichloroethene	96	5.880	5.869	0.011	46	3599	0.0438	
	39 2-Butanone (MEK)	72	6.829	6.834	-0.005	94	140850	3.90	
	40 Hexane	56	6.845	6.840	0.005	52	23014	0.4751	
	44 Chloroform	83	7.589	7.584	0.005	94	88417	0.4277	
	47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	94	137578	0.5937	
	50 Cyclohexane	69	9.196	9.196	0.000	44	8008	0.2040	
	51 Benzene	78	9.202	9.202	0.000	94	391762	1.65	
	56 Isooctane	57	10.048	10.037	0.011	89	49639	0.1799	
	59 Trichloroethene	130	10.587	10.582	0.005	92	2390	0.0230	
	61 Dichlorobromomethane	83	10.830	10.835	-0.005	48	15590	0.0774	
	65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	92	41086	0.4413	
	68 Toluene	91	12.777	12.777	0.000	94	560631	2.21	
	76 Tetrachloroethene	129	13.958	13.963	-0.005	94	315973	3.20	
	79 Ethylbenzene	91	15.166	15.166	0.000	98	185562	0.5444	
	81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	593299	2.23	
	84 Styrene	104	15.802	15.802	0.000	96	31834	0.1859	
	85 o-Xylene	91	15.861	15.861	0.000	97	260810	0.9349	
	92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	90	39510	0.2443	
	96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	98	263125	0.8788	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	91	206018	1.17	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

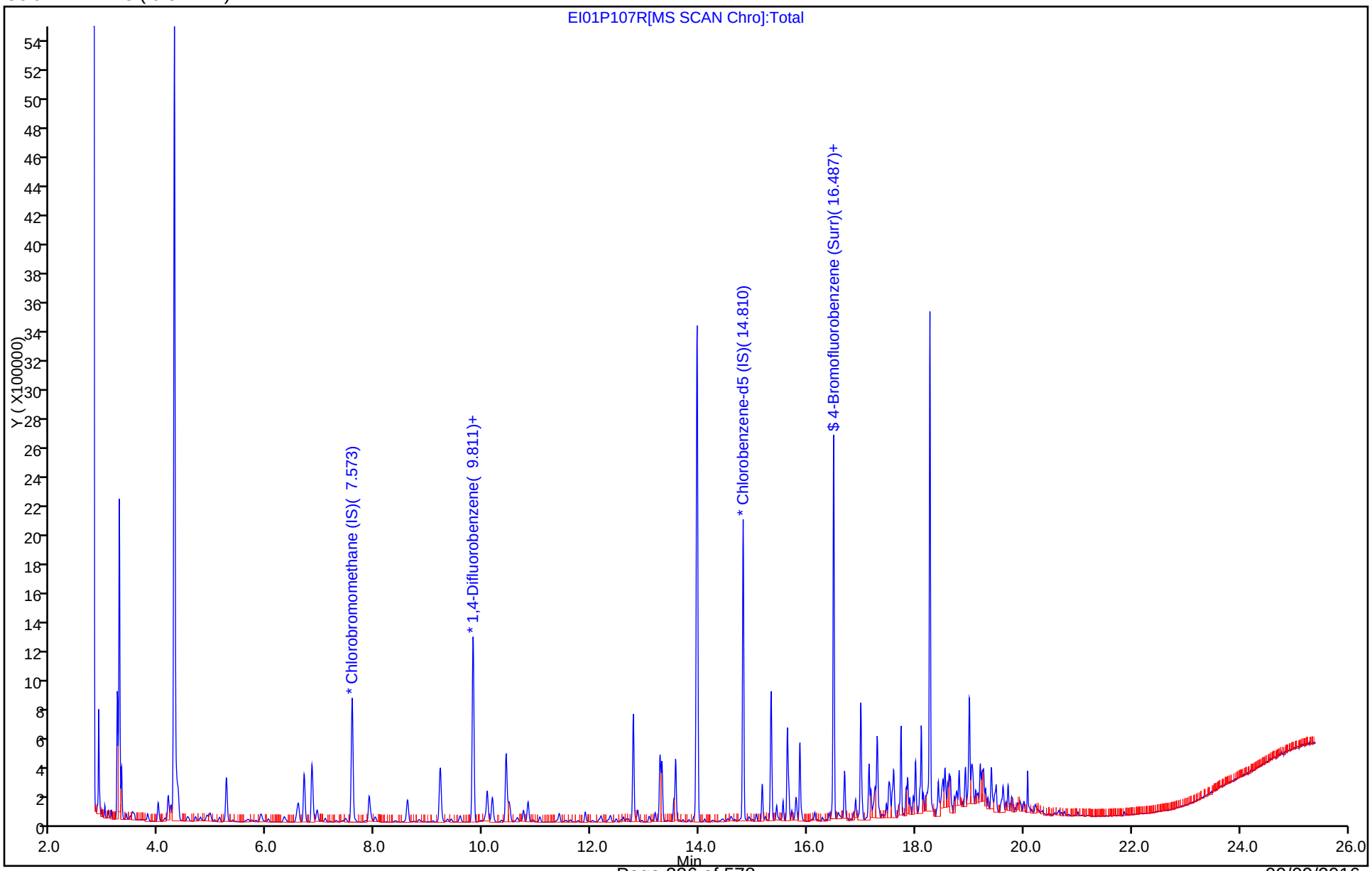
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P107R.D

Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6	Worklist Smp#:	19
Client ID:	SG-213				
Purge Vol:	500.000 mL	Dil. Factor:	1.4200	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

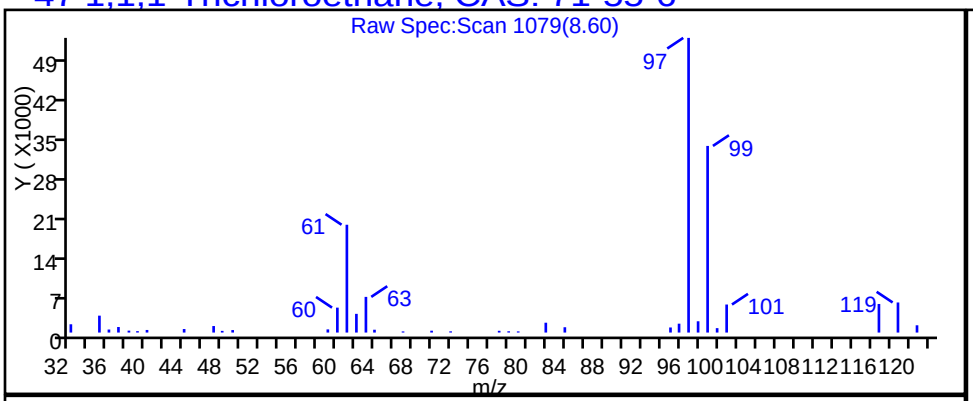
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Lims ID:	140-5720-A-6				
Client ID:	SG-213				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 23:25:30	ALS Bottle#:	7	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Sample Info:	140-0003369-019				
Misc. Info.:	140-5720-a-6@1.42				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 12:33:40	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

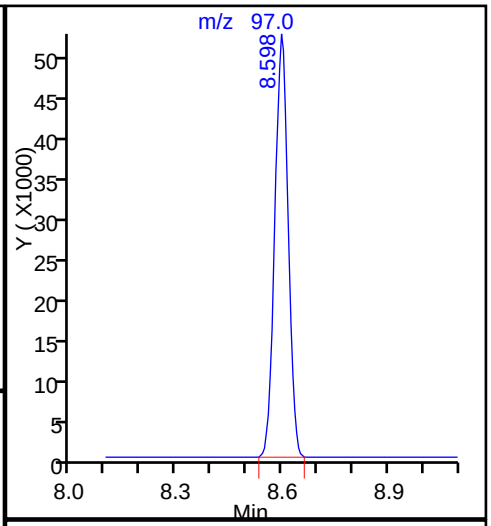
First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:33:40

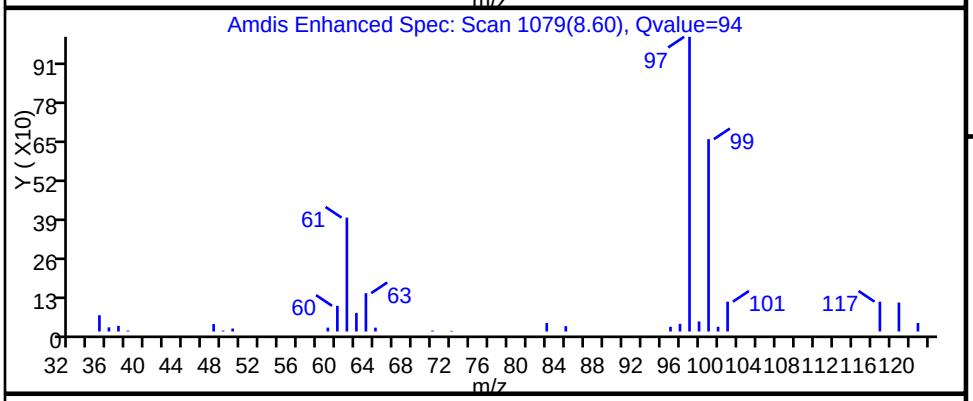
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	3.97	99.16

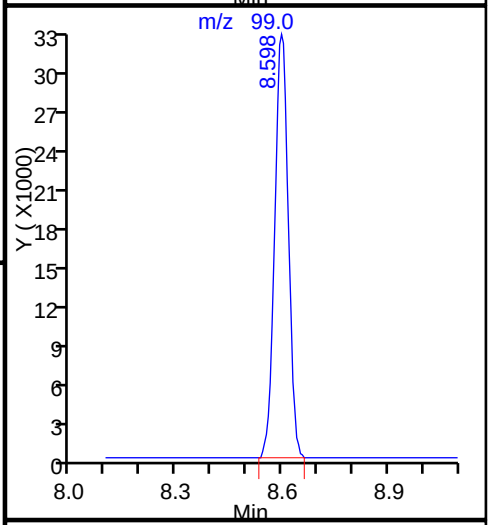
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

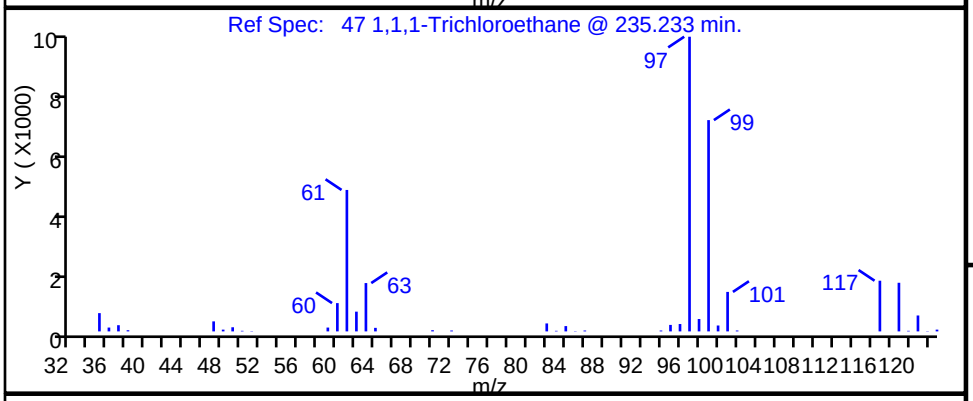
47 1,1,1-Trichloroethane, CAS: 71-55-6

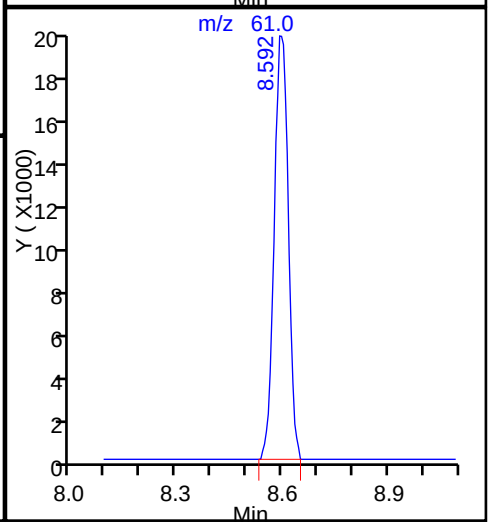


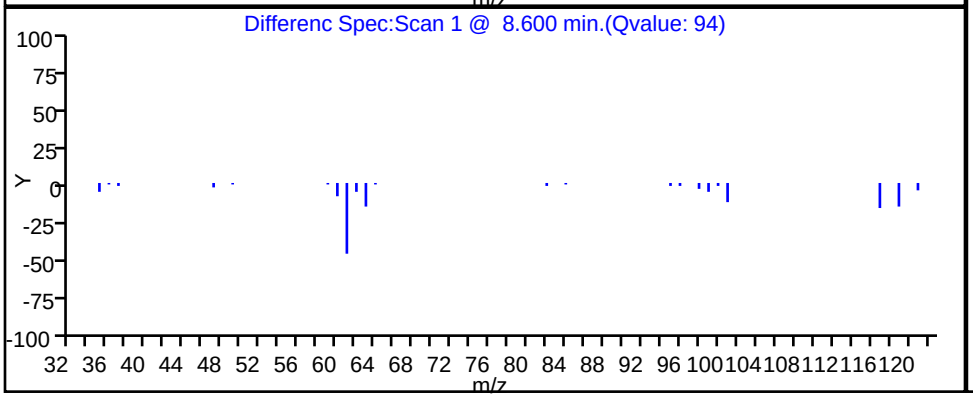






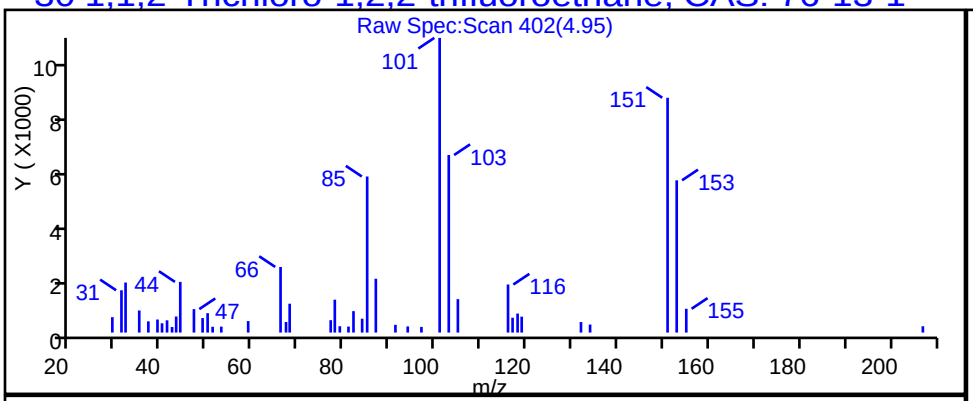


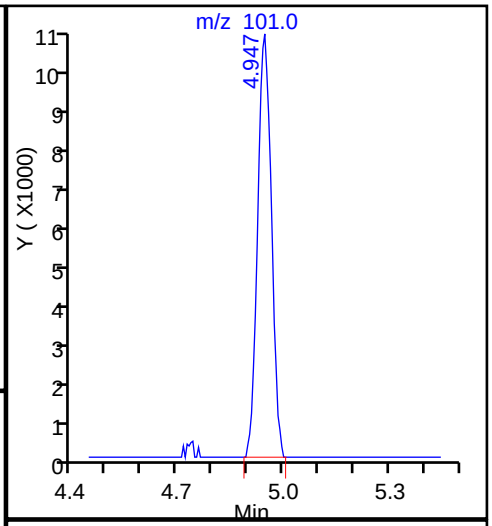


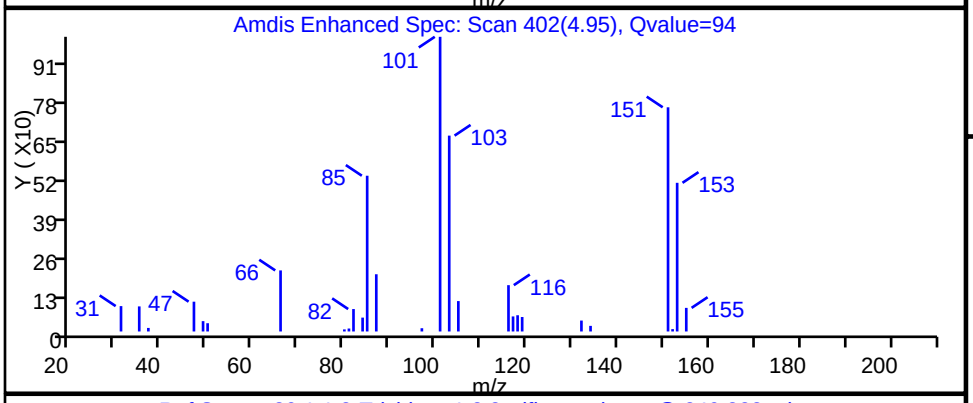


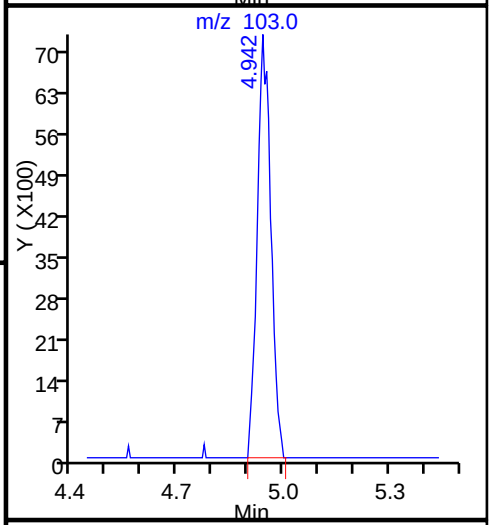
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

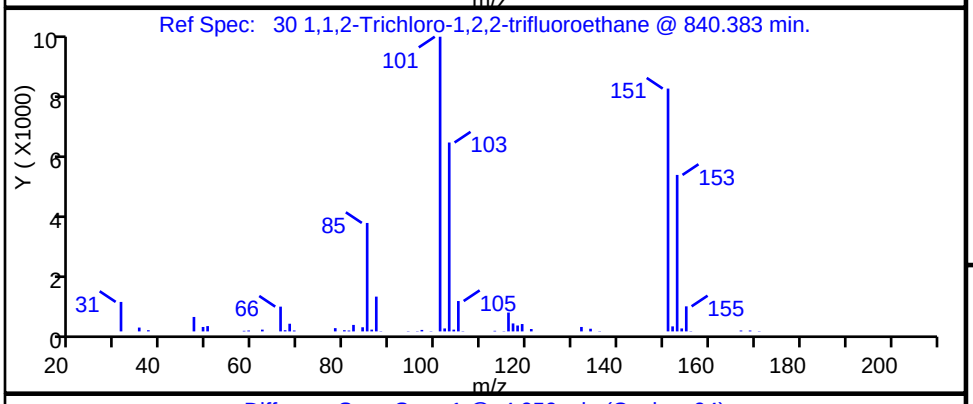
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

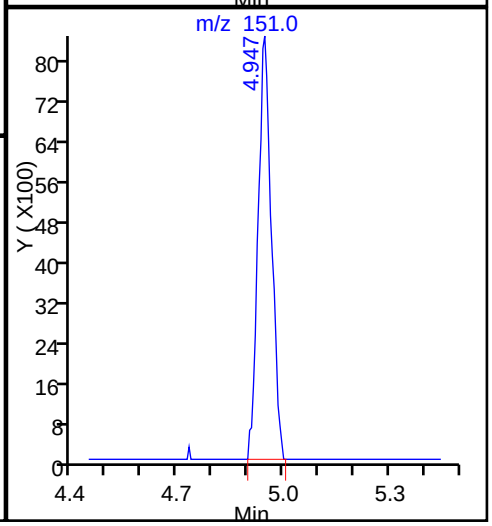


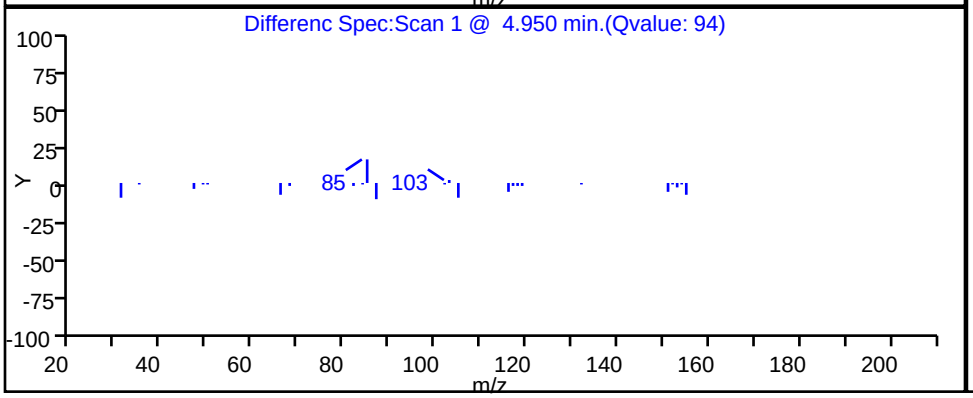






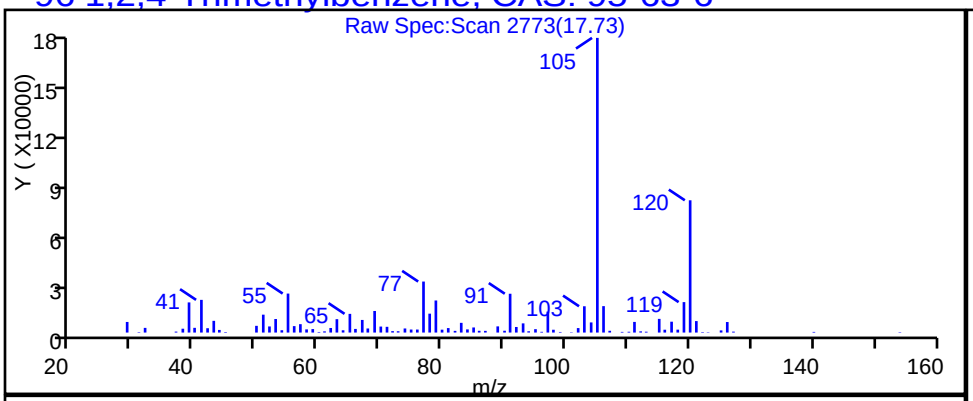


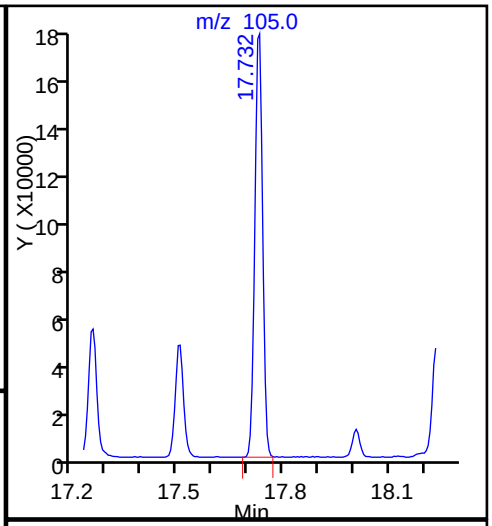


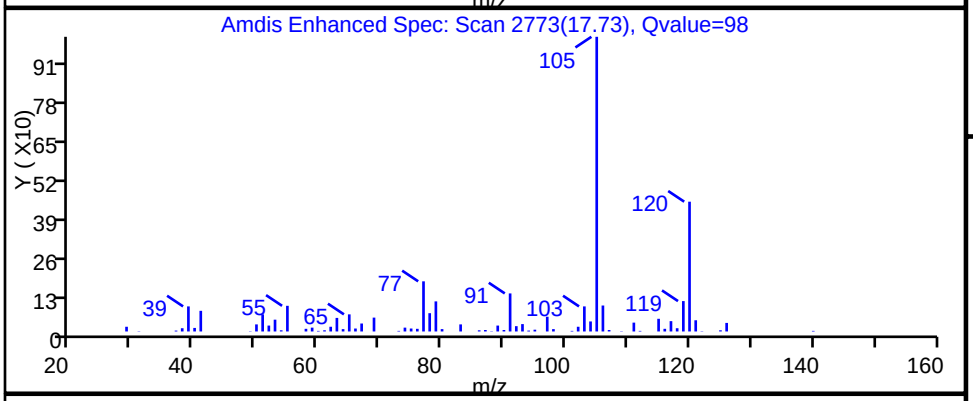


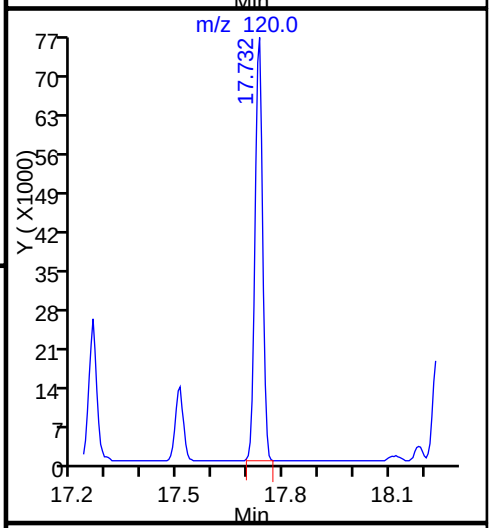
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
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Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

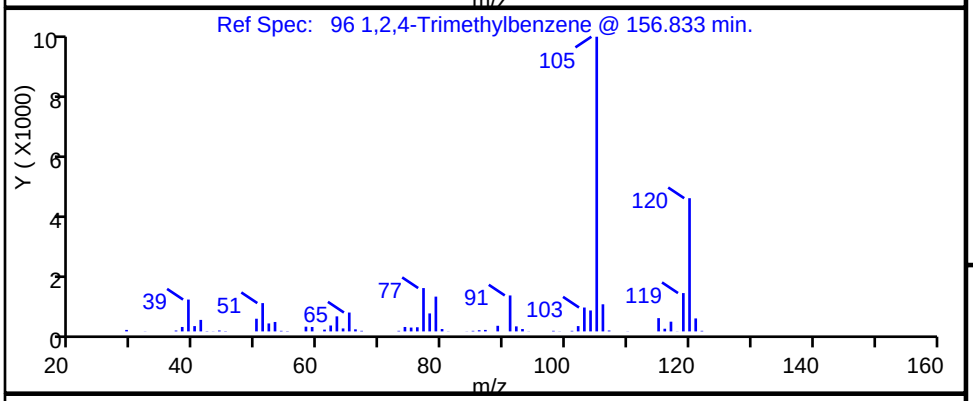
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

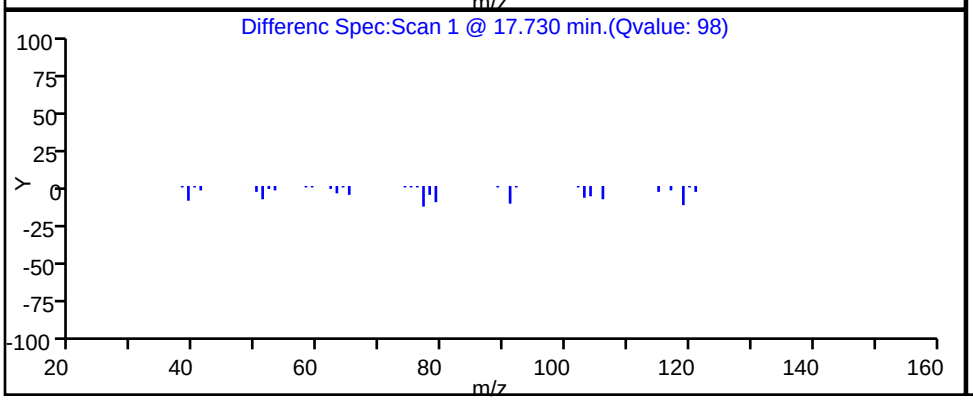


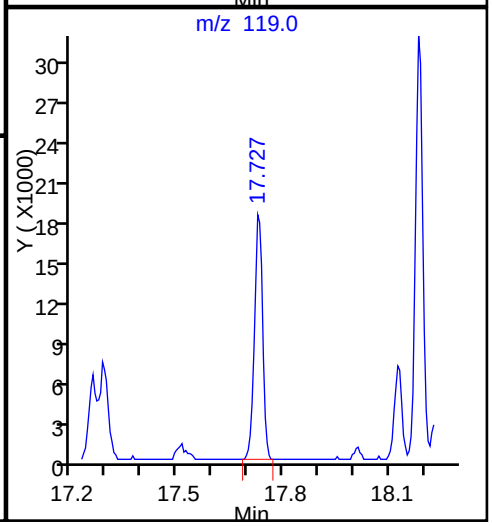








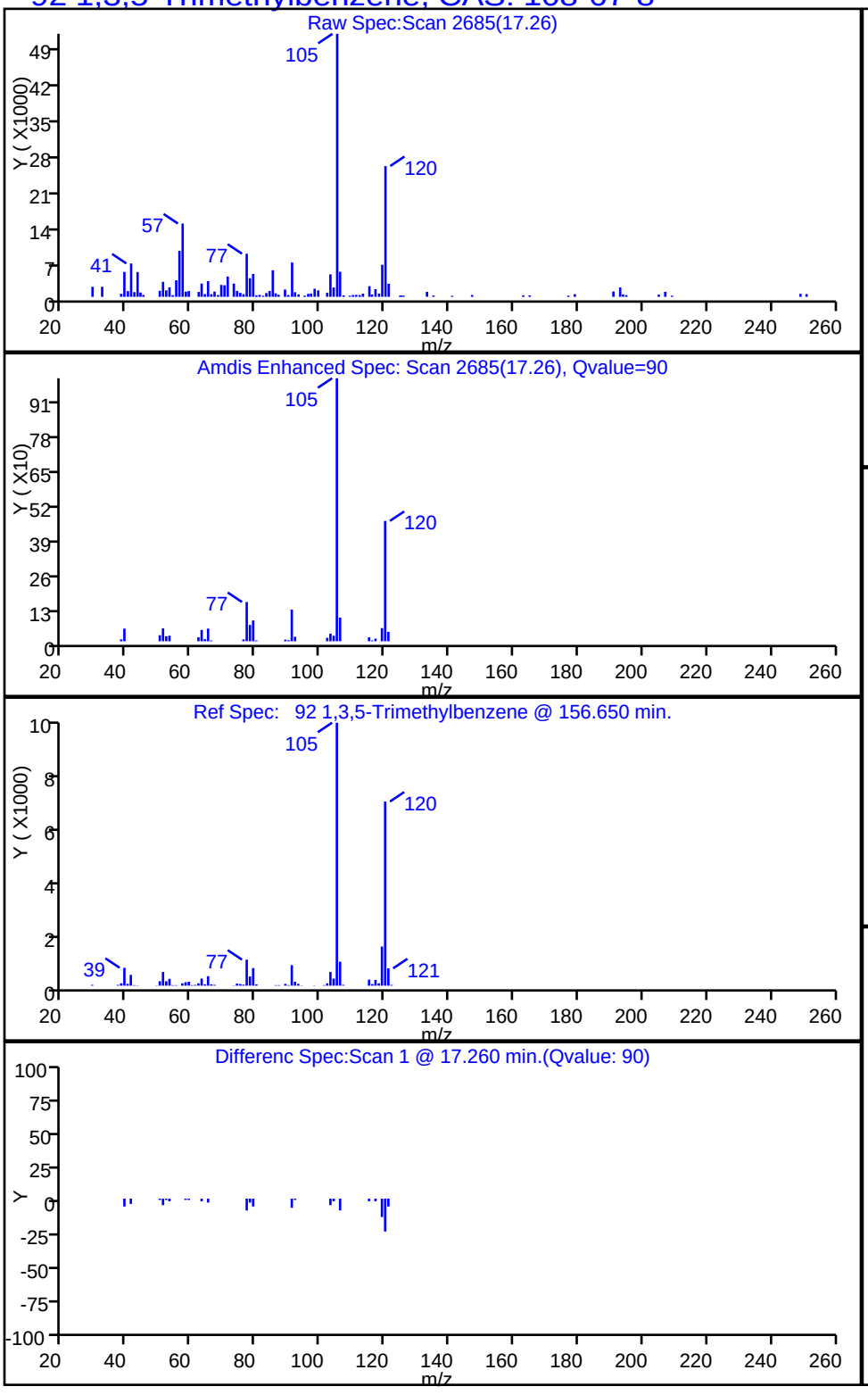


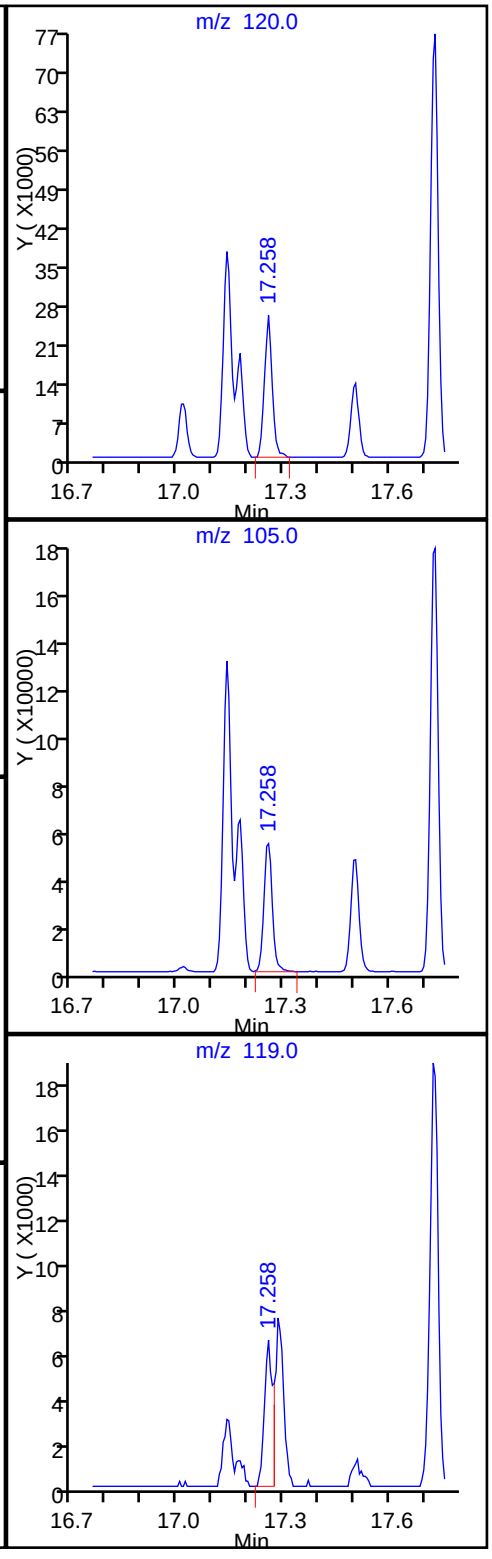


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P107R.D				
Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME		
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6		
Client ID:	SG-213				
Operator ID:	007126	ALS Bottle#:	7	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

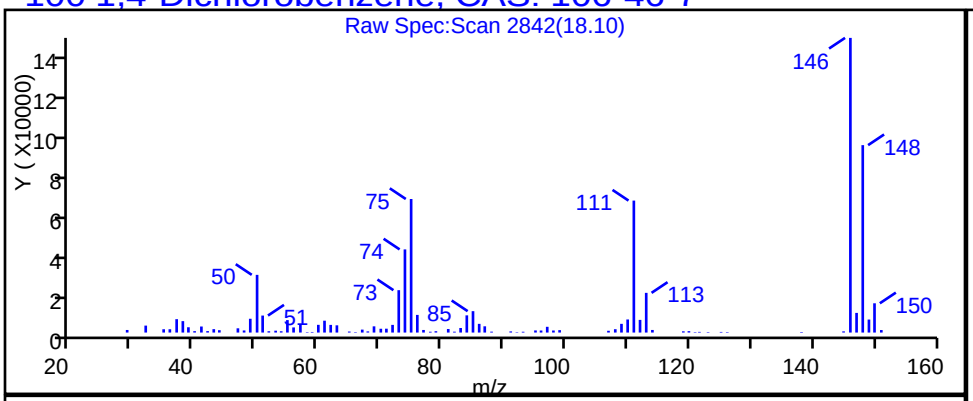
92 1,3,5-Trimethylbenzene, CAS: 108-67-8

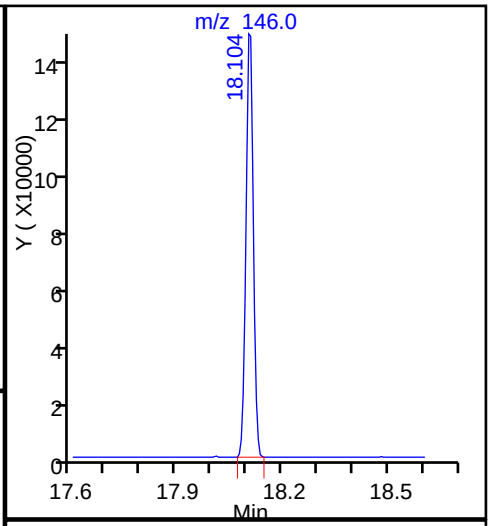


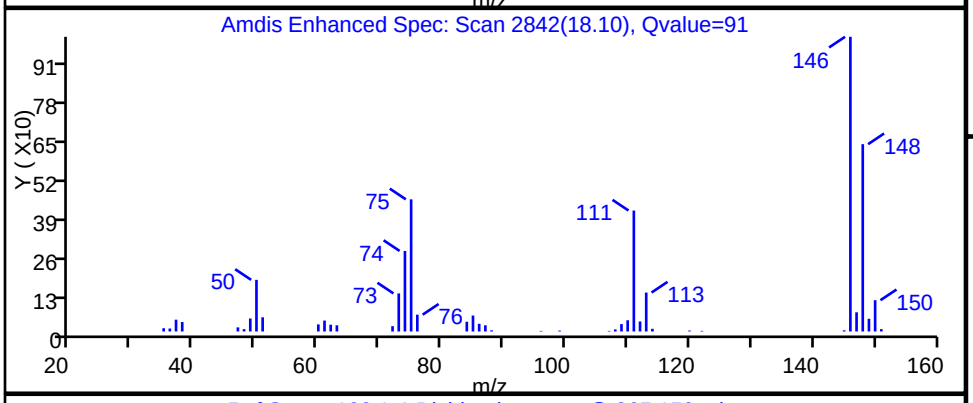


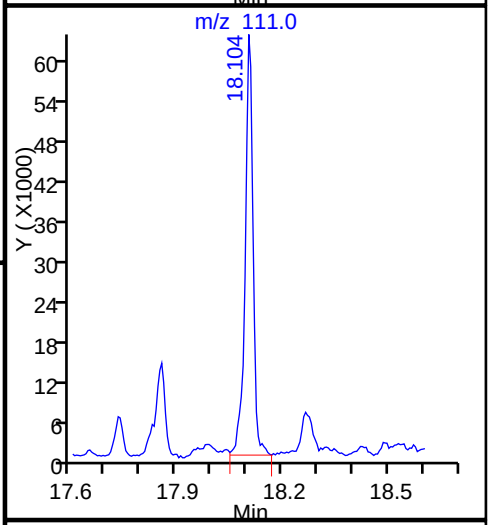
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

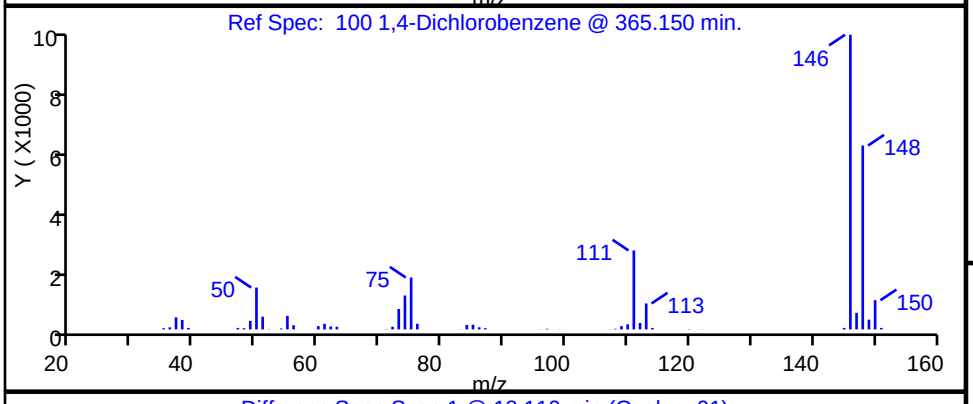
100 1,4-Dichlorobenzene, CAS: 106-46-7

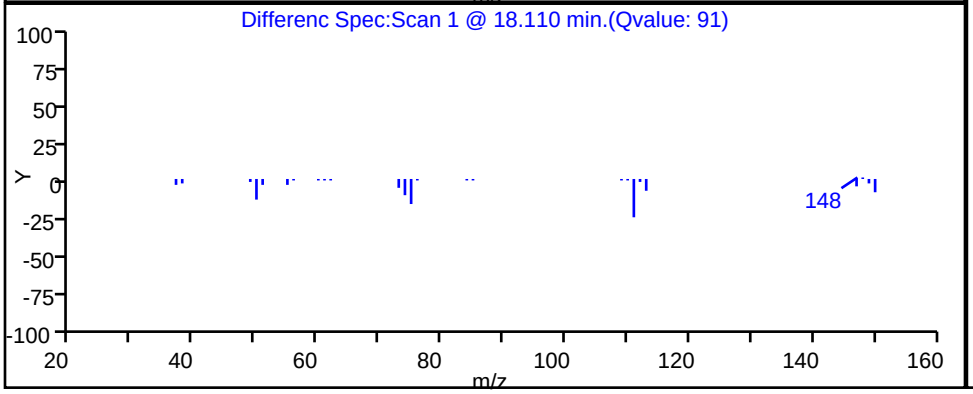


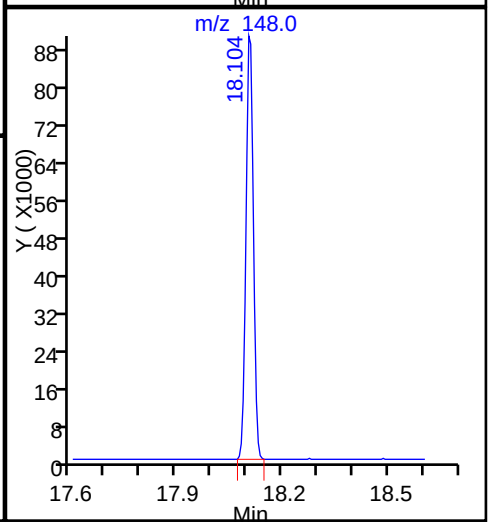










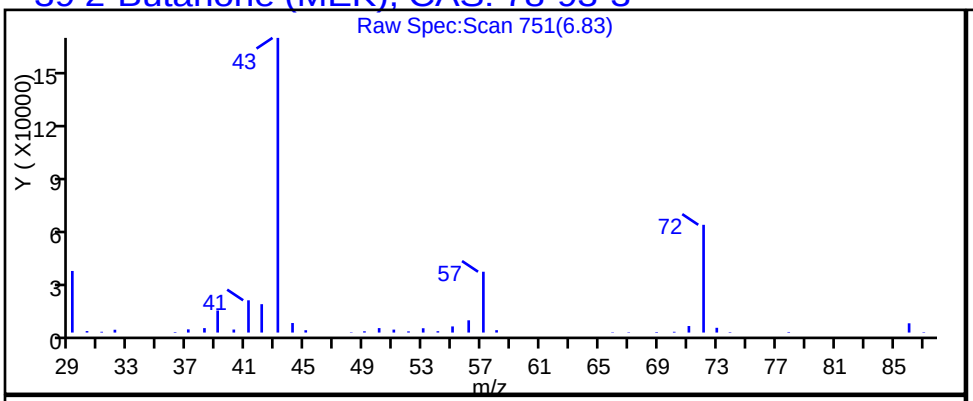


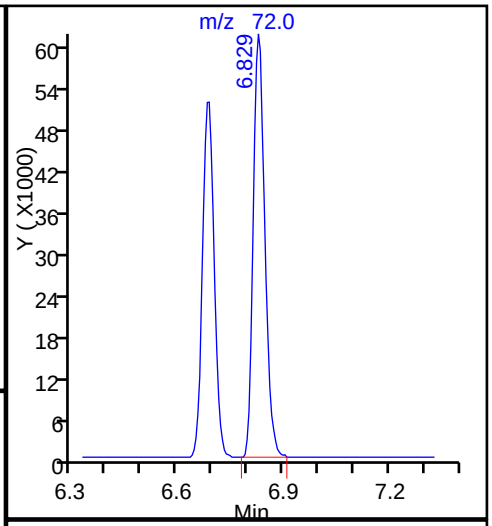
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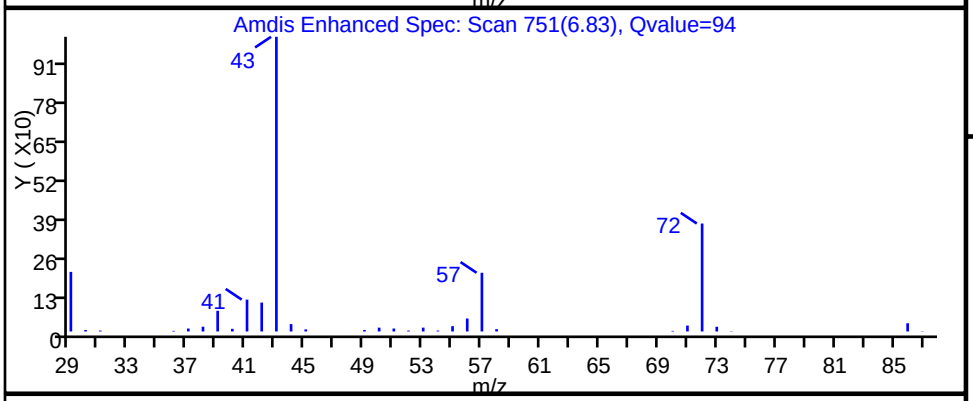
TestAmerica Knoxville

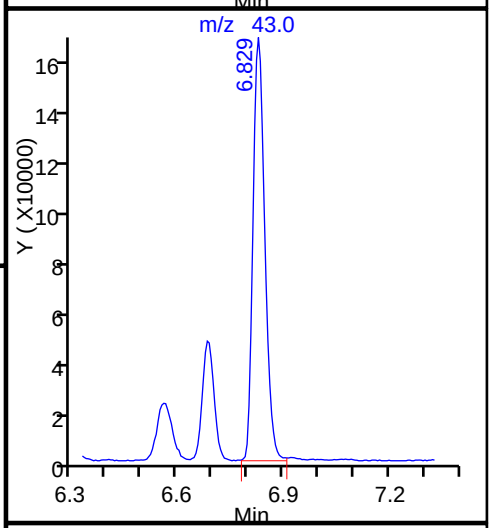
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P107R.D		
Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6
Client ID:	SG-213		
Operator ID:	007126	ALS Bottle#:	7 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

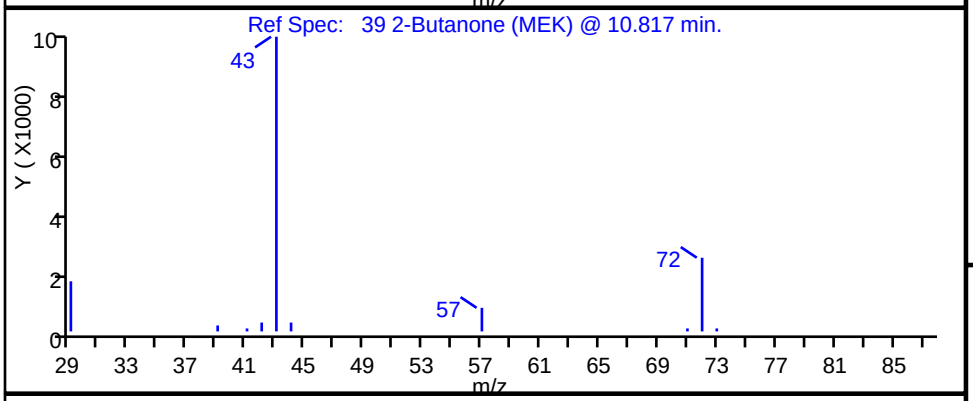
39 2-Butanone (MEK), CAS: 78-93-3

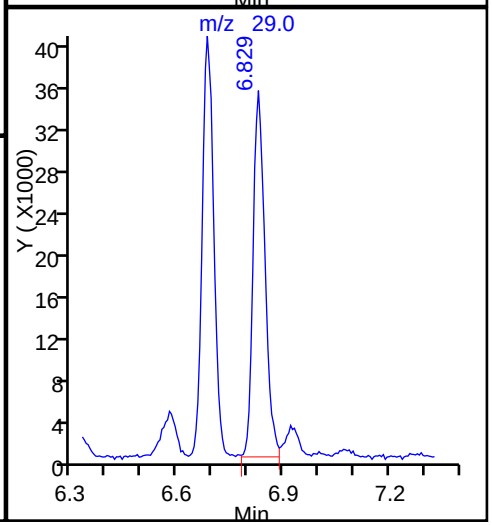


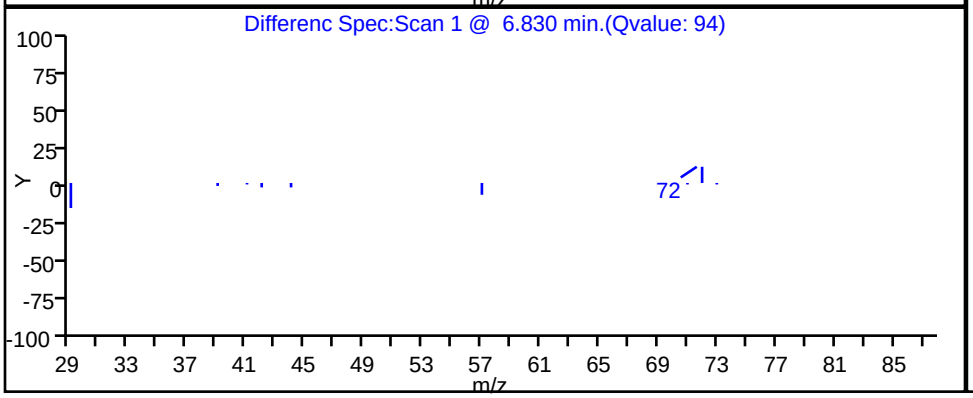








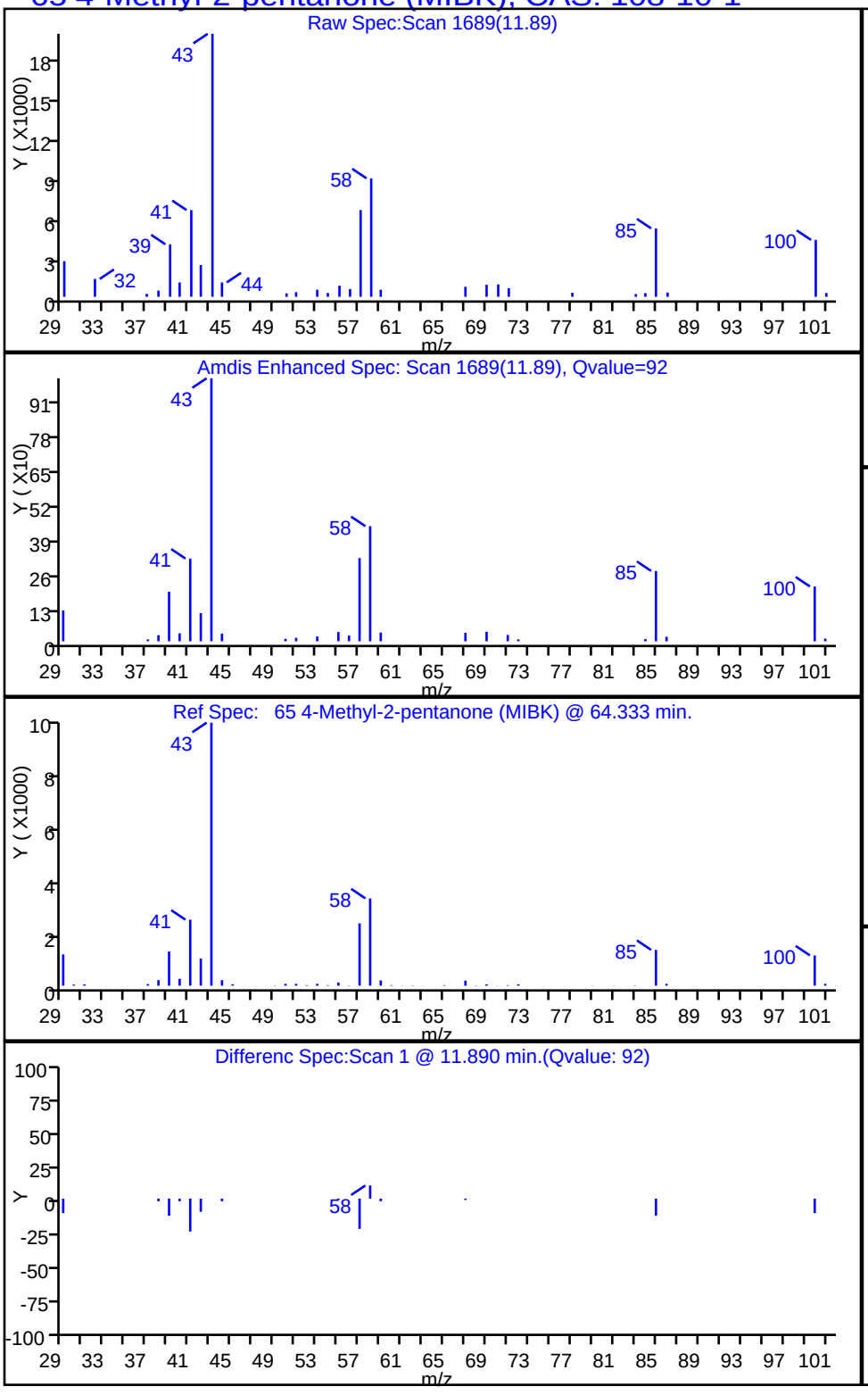


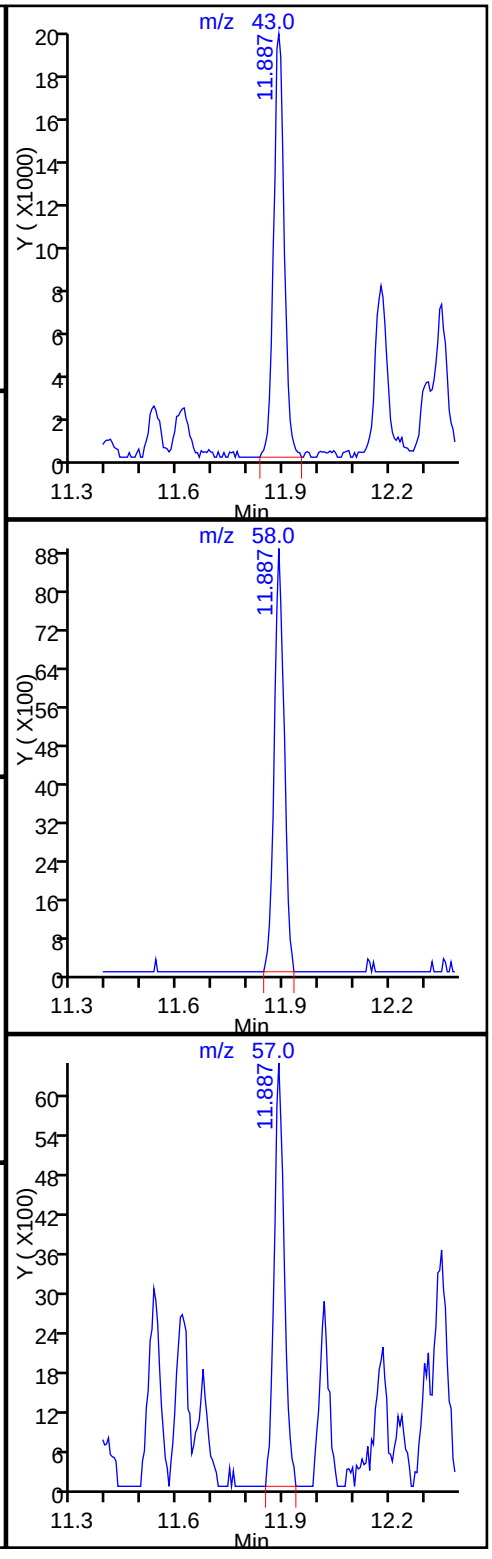


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P107R.D				
Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME		
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6		
Client ID:	SG-213				
Operator ID:	007126	ALS Bottle#:	7	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

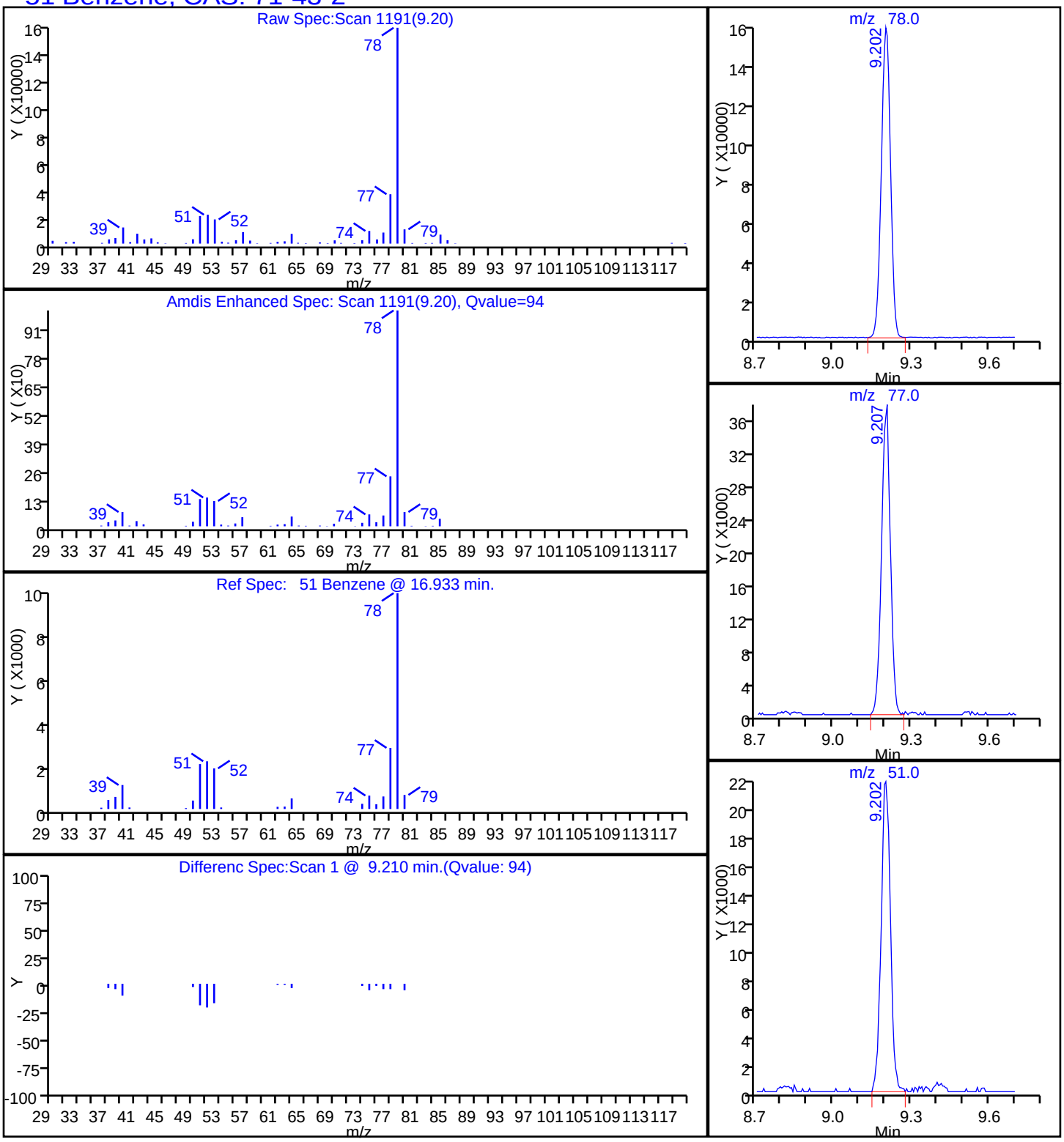




TestAmerica Knoxville

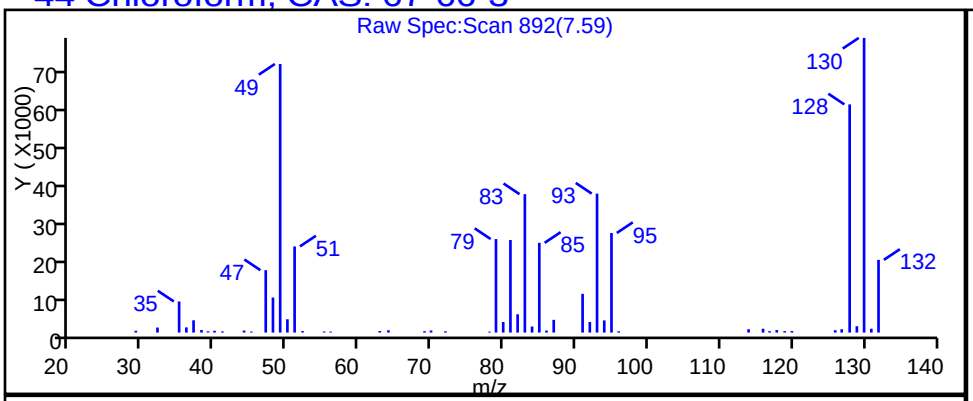
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Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6
Client ID:	SG-213		
Operator ID:	007126	ALS Bottle#:	7 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

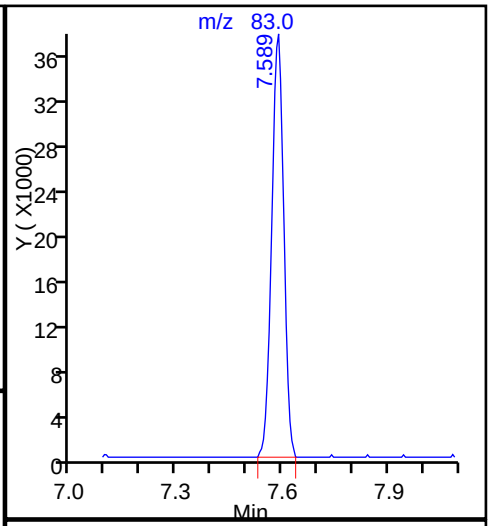
51 Benzene, CAS: 71-43-2

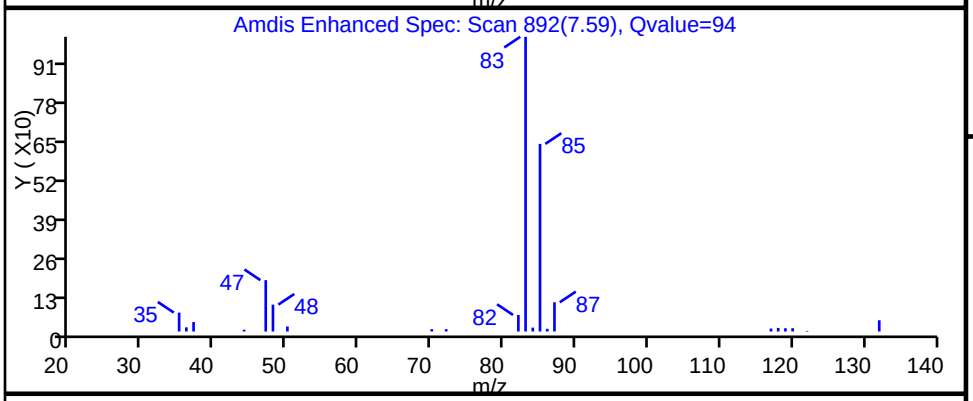


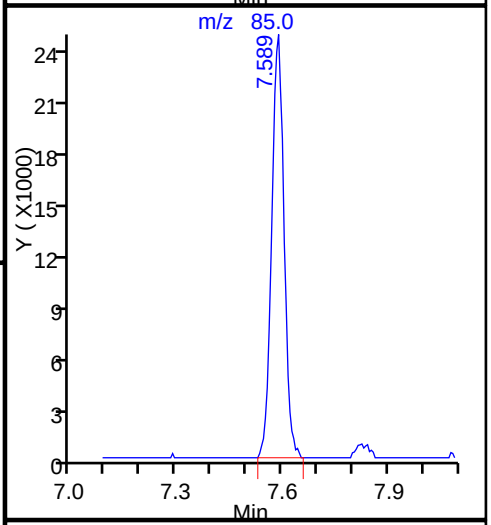
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

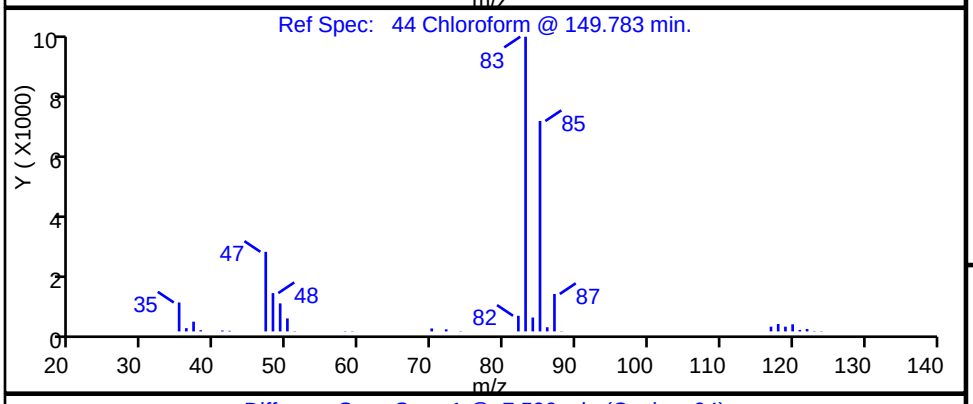
44 Chloroform, CAS: 67-66-3

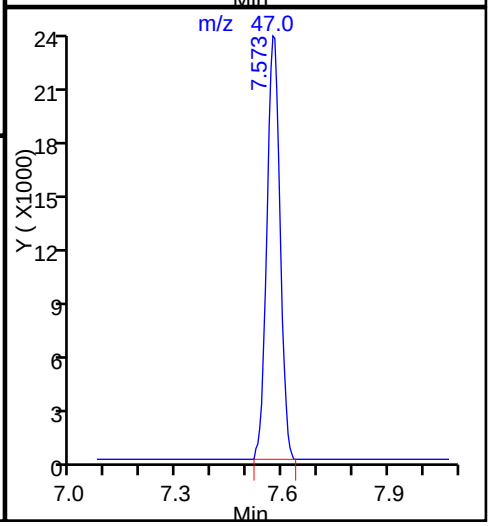


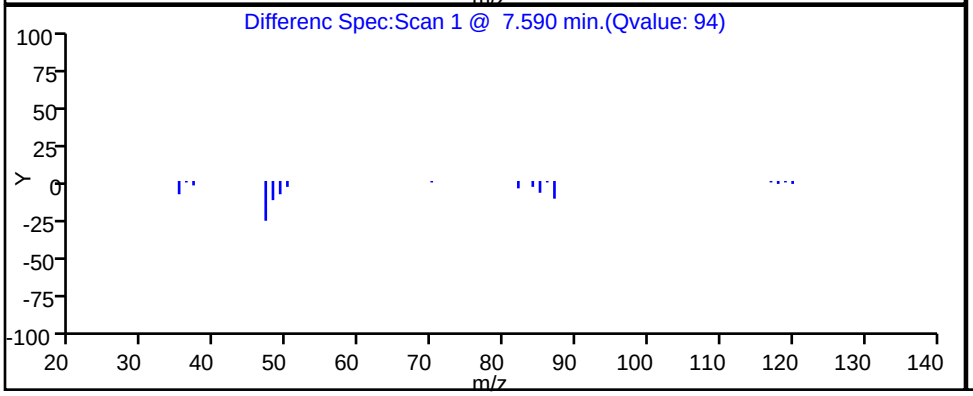






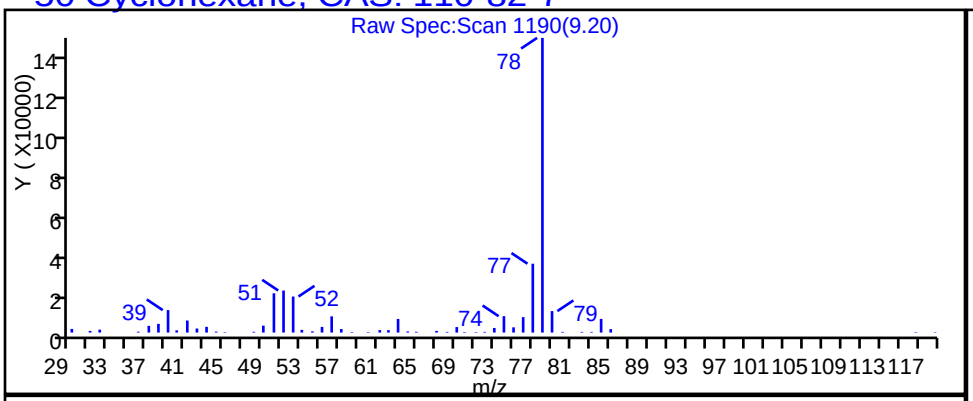


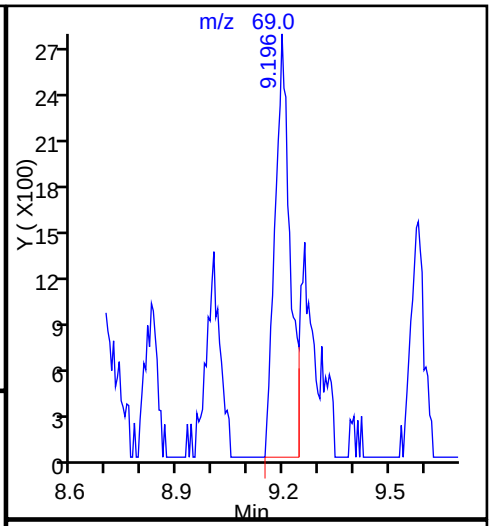


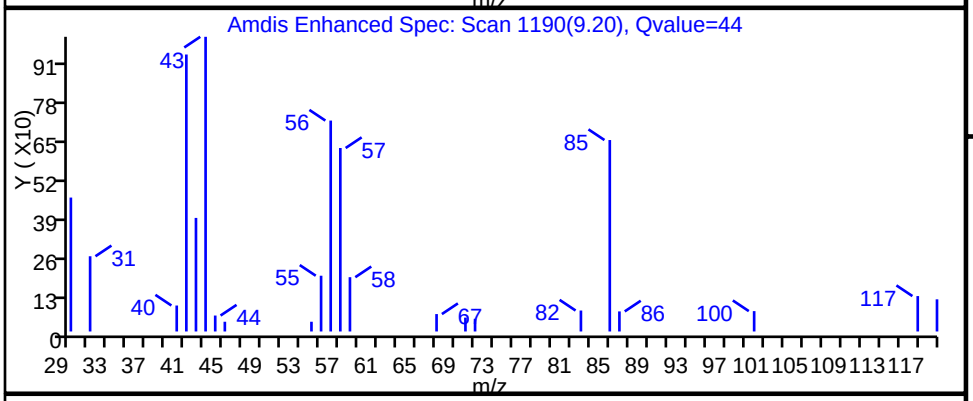


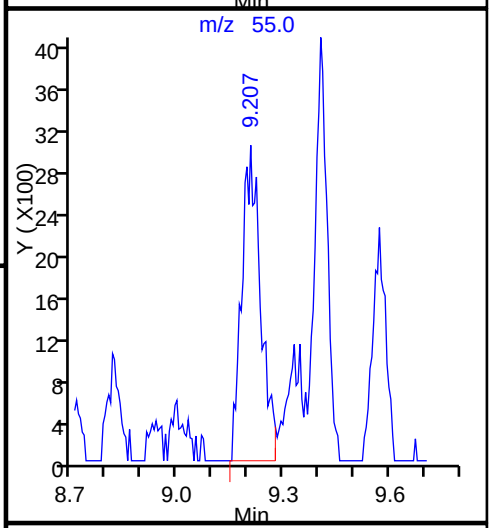
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Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6
Client ID:	SG-213		
Operator ID:	007126	ALS Bottle#:	7 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

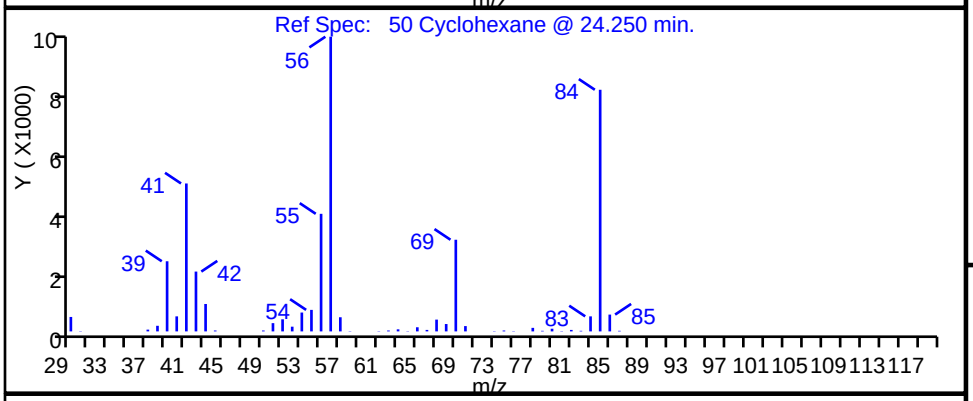
50 Cyclohexane, CAS: 110-82-7

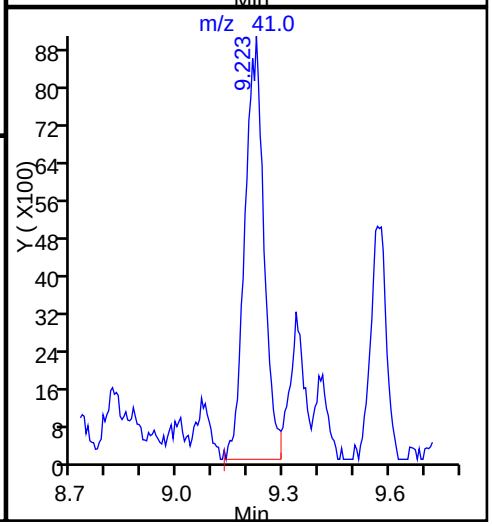


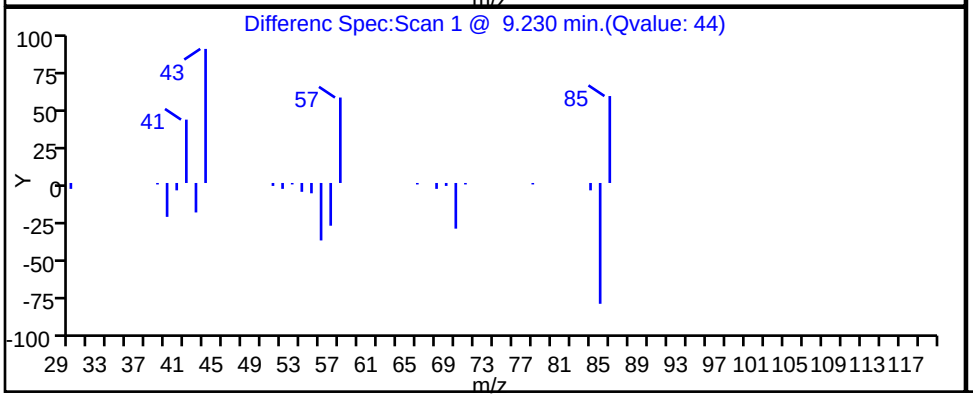






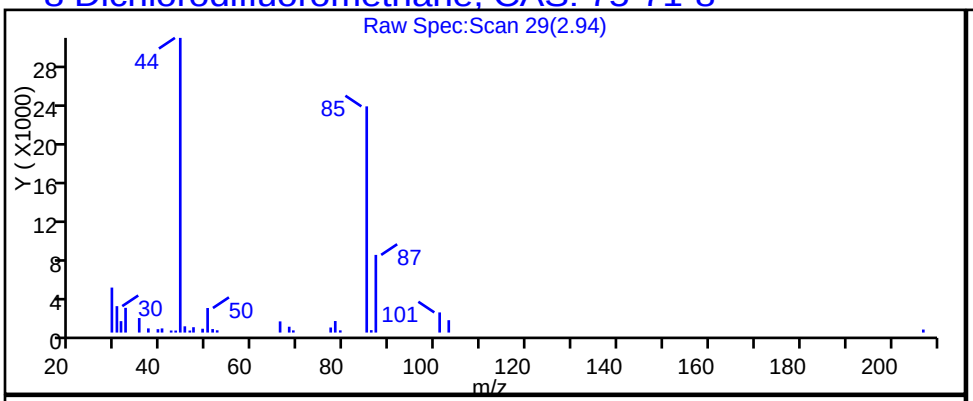


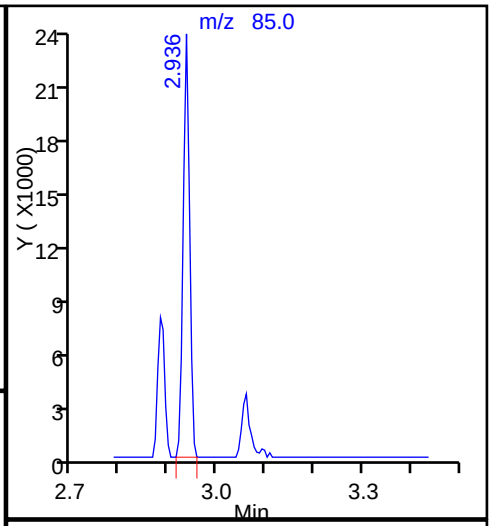


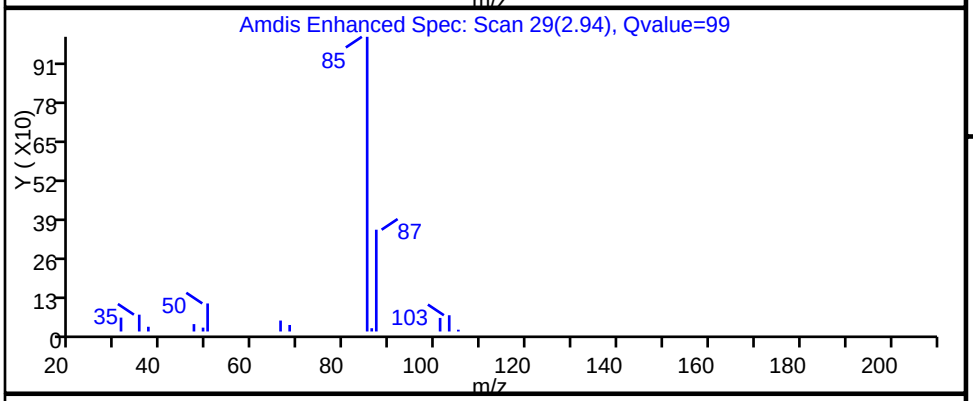


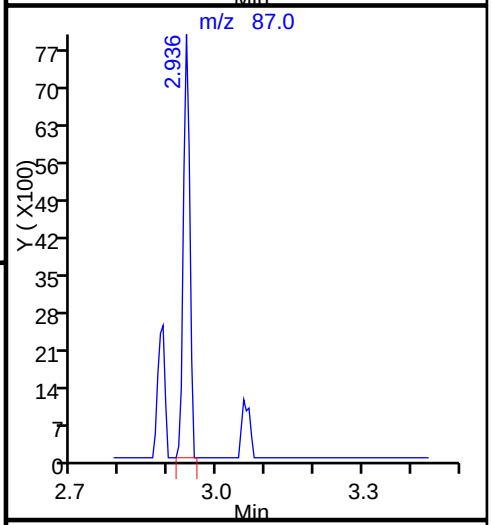
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

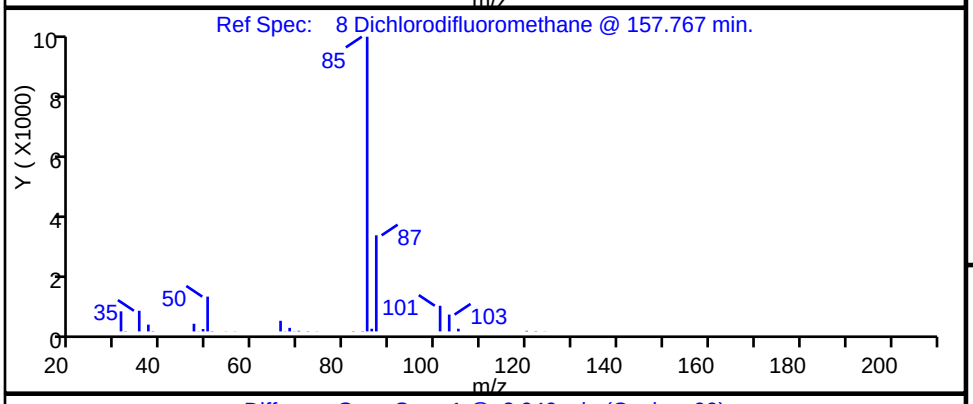
8 Dichlorodifluoromethane, CAS: 75-71-8

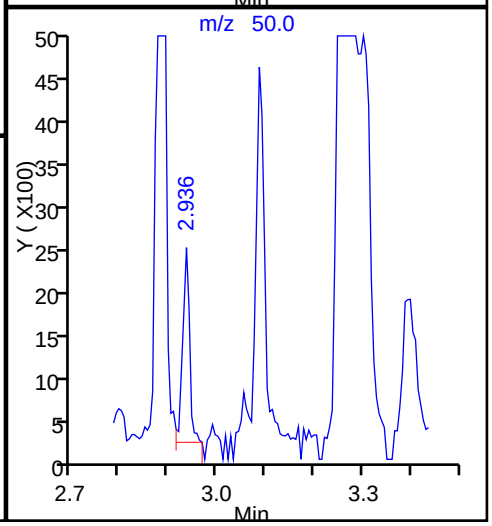


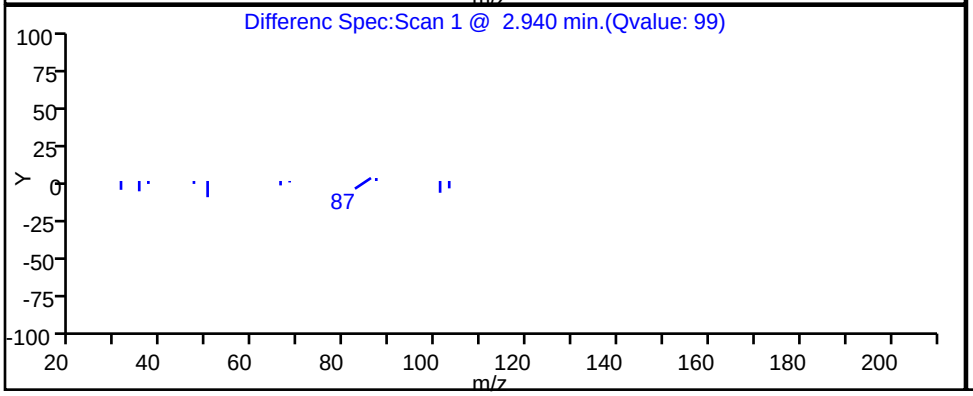






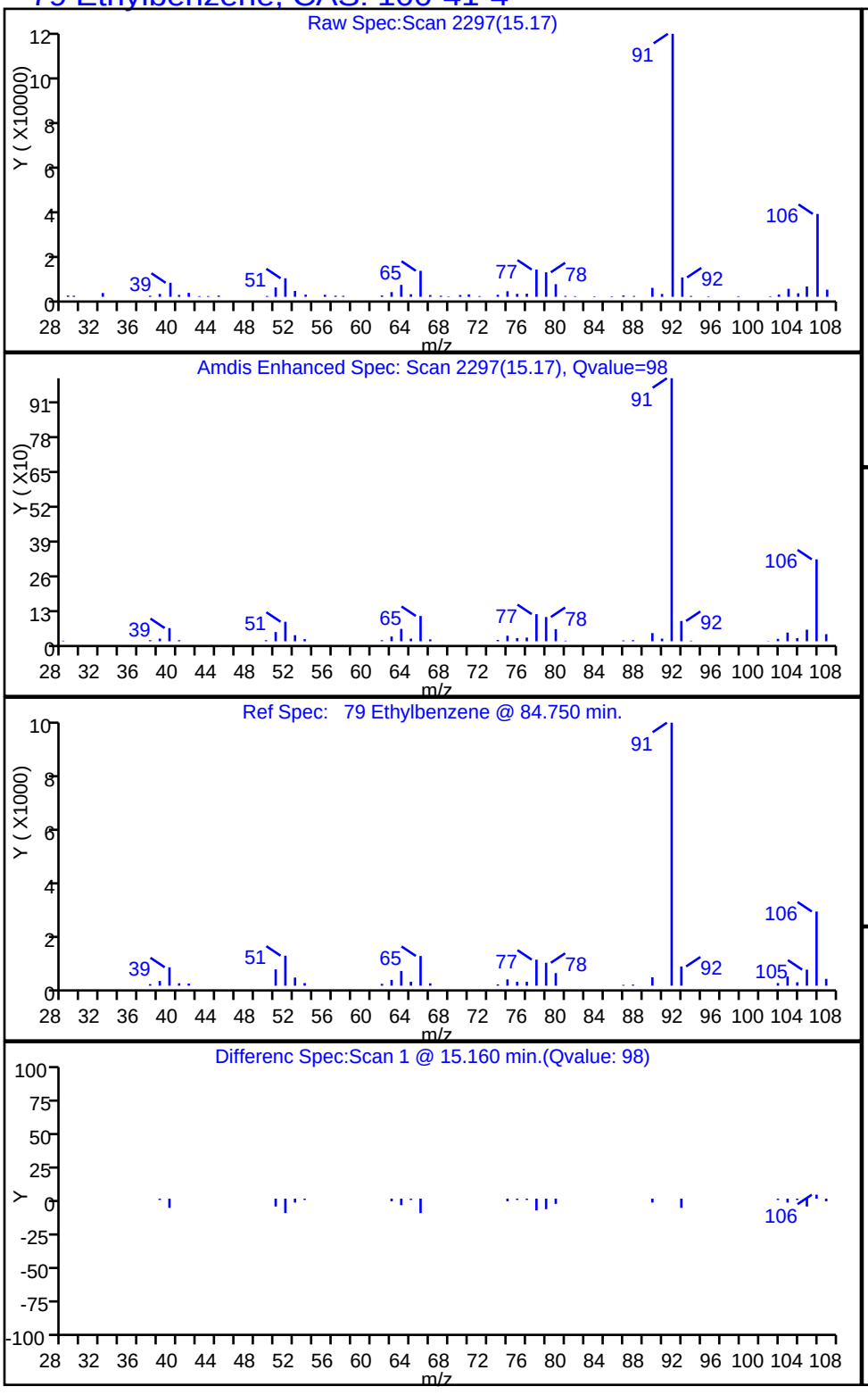


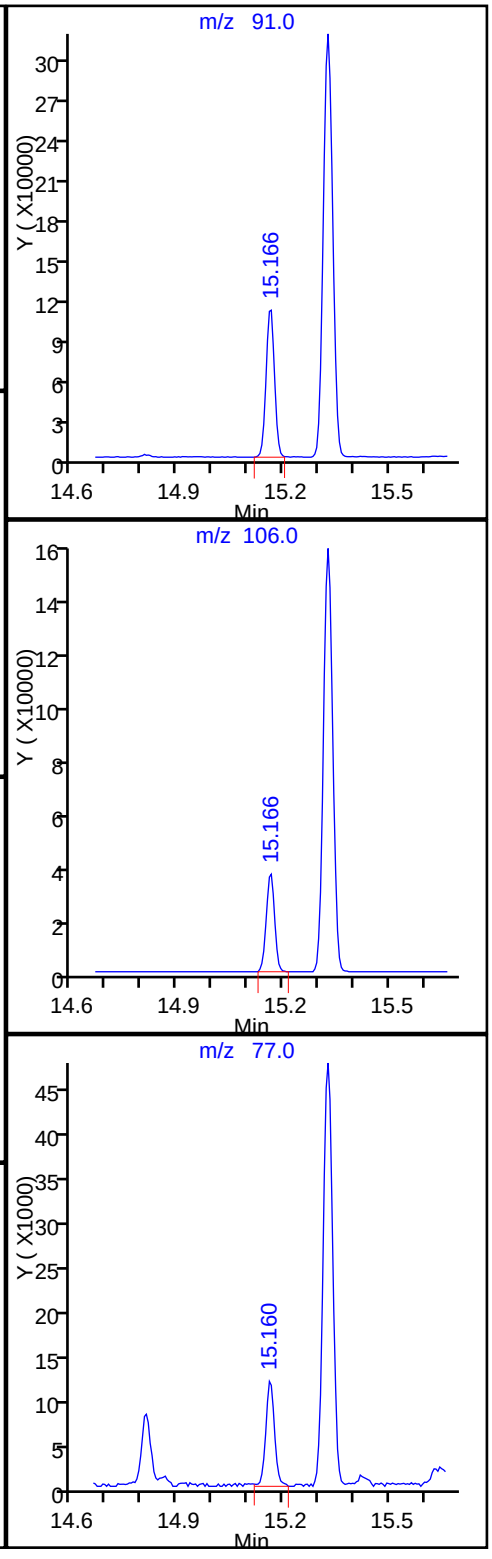




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Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

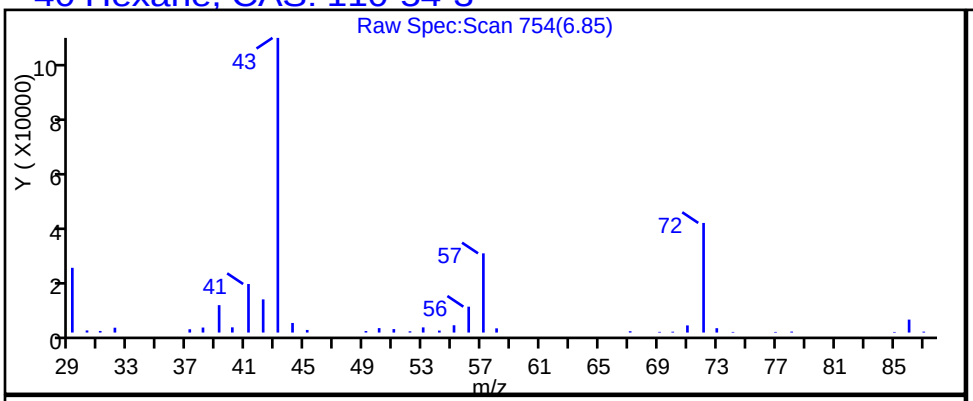
79 Ethylbenzene, CAS: 100-41-4

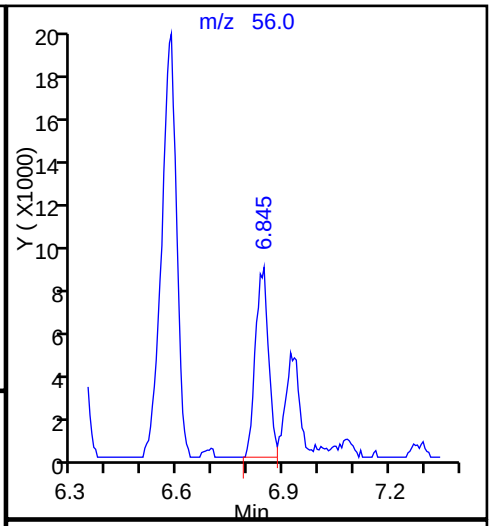


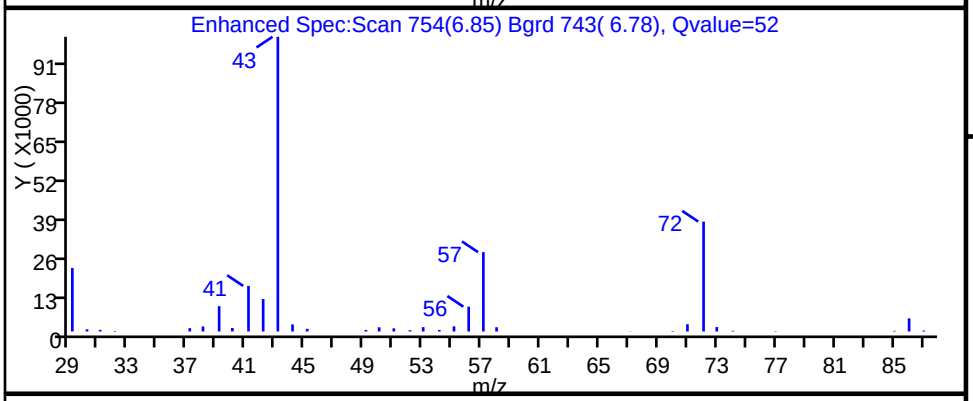


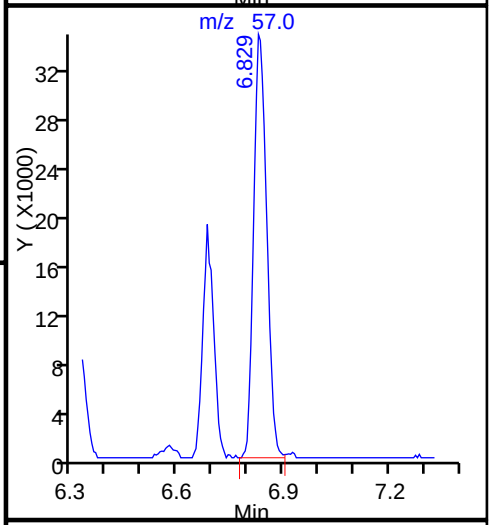
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Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6
Client ID:	SG-213		
Operator ID:	007126	ALS Bottle#:	7 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

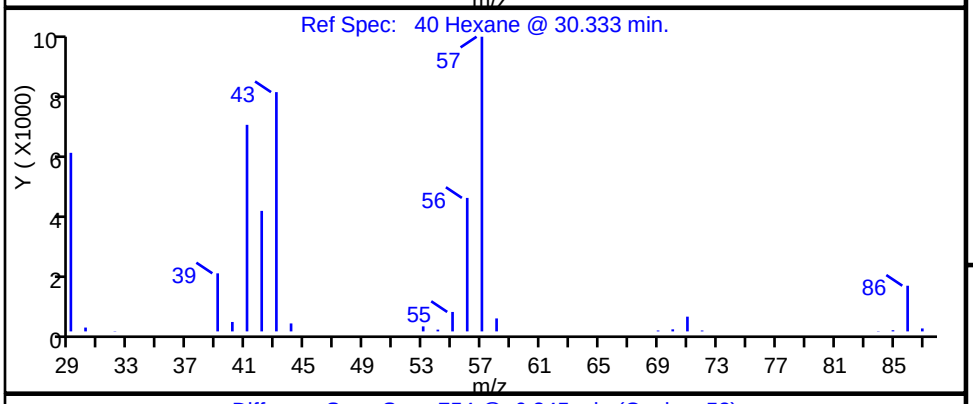
40 Hexane, CAS: 110-54-3

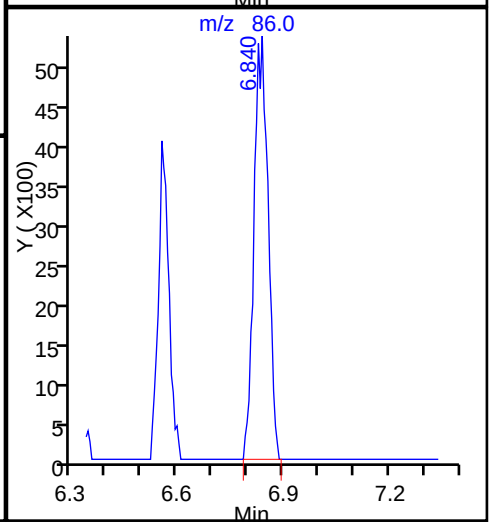


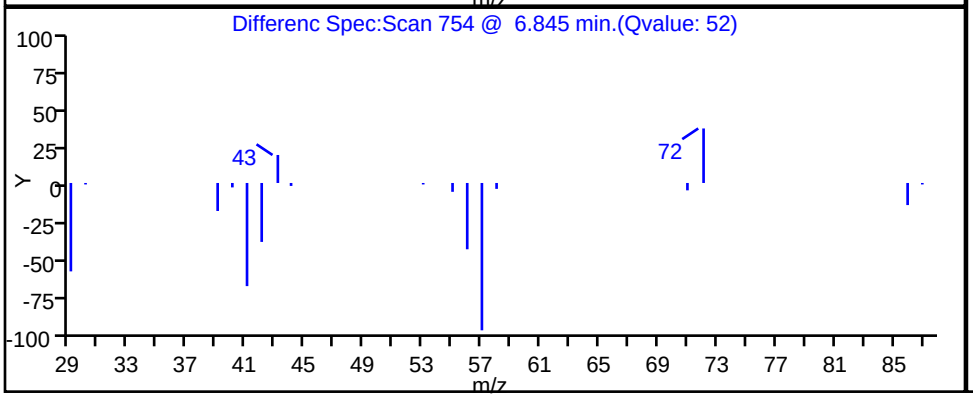






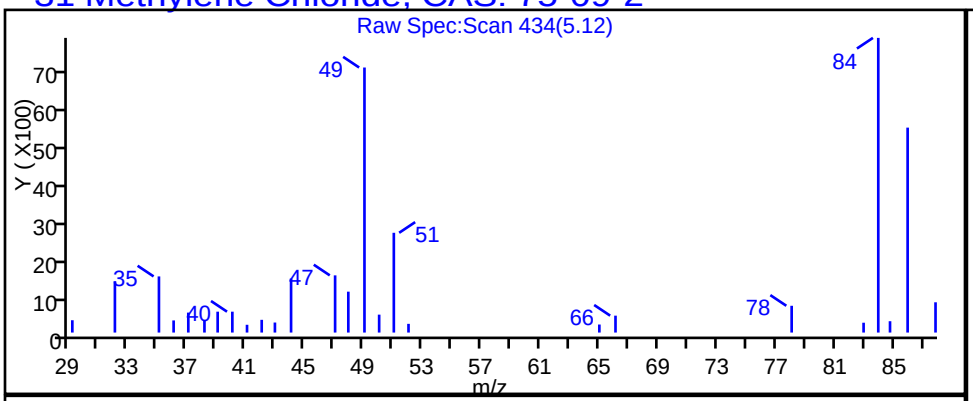


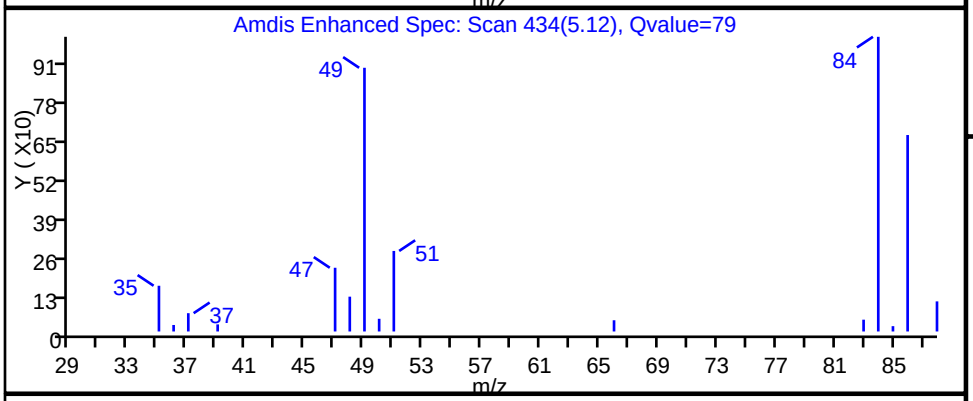


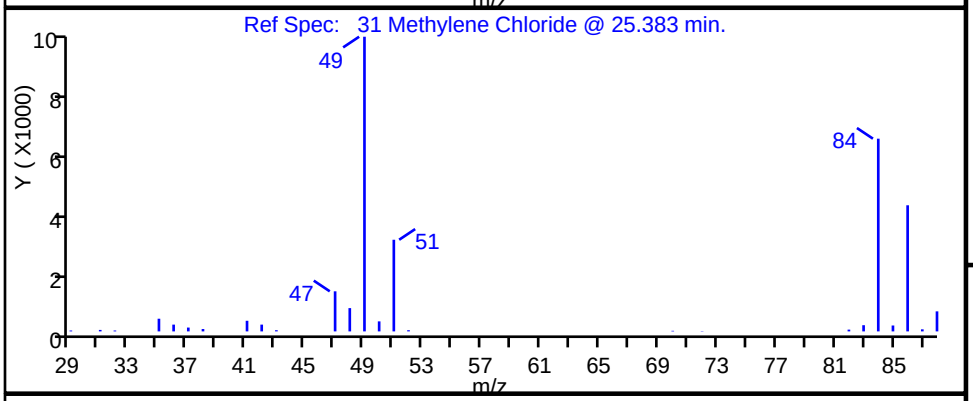


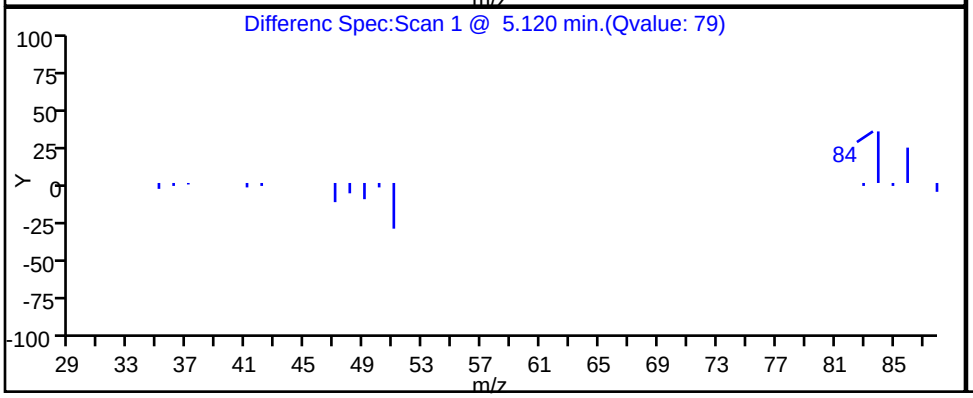
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
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Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

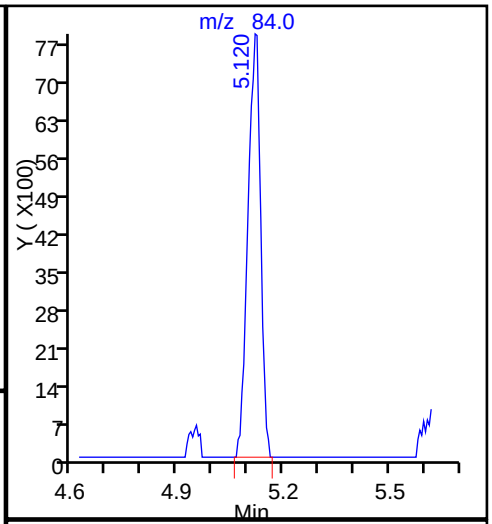
31 Methylene Chloride, CAS: 75-09-2

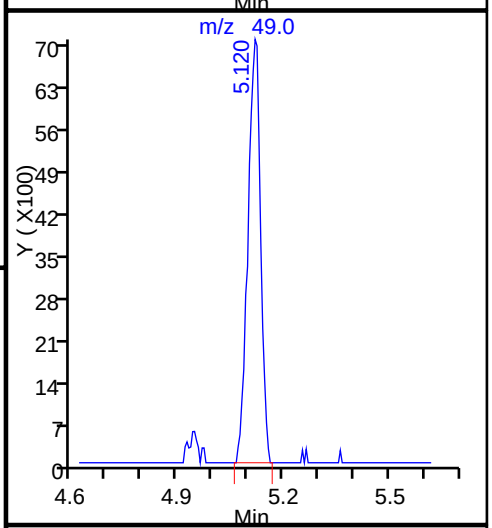


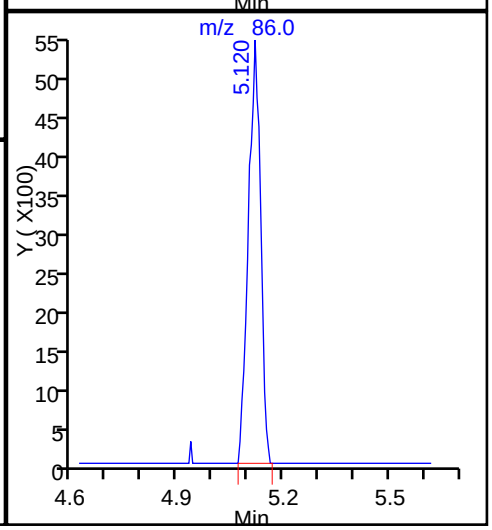






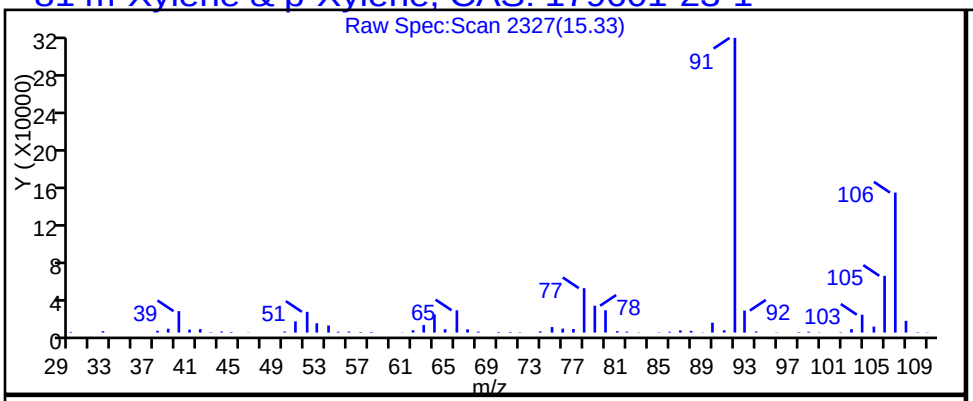


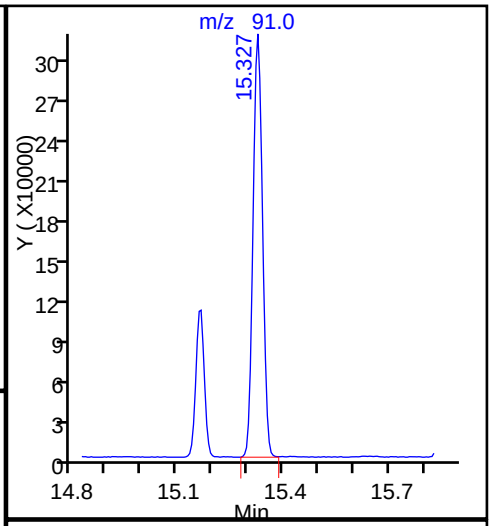


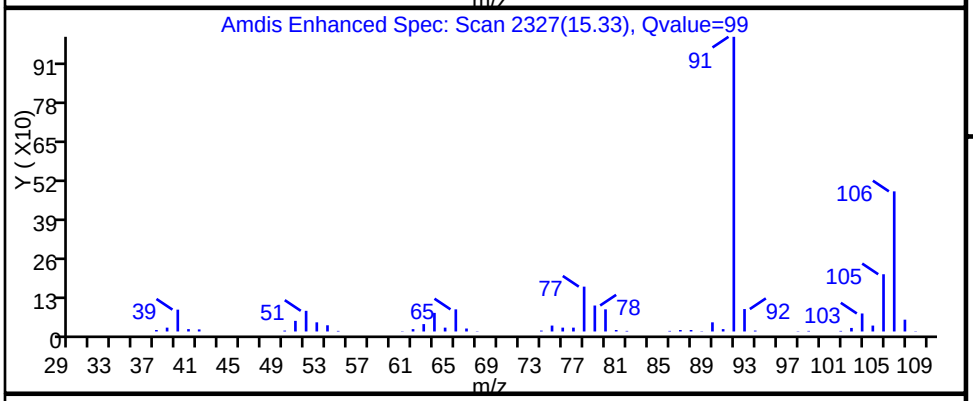


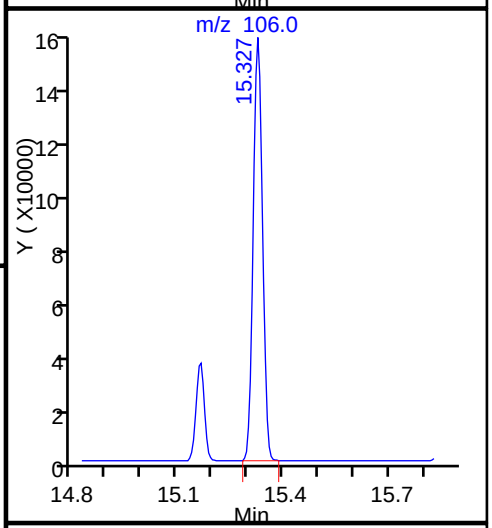
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
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Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

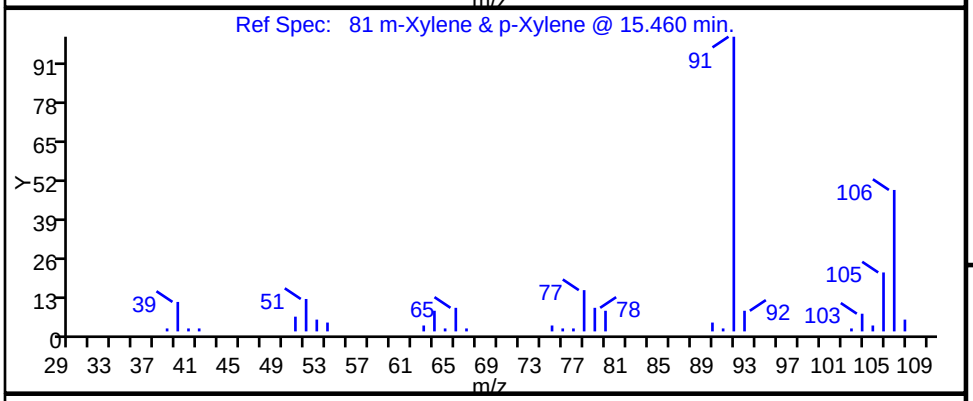
81 m-Xylene & p-Xylene, CAS: 179601-23-1

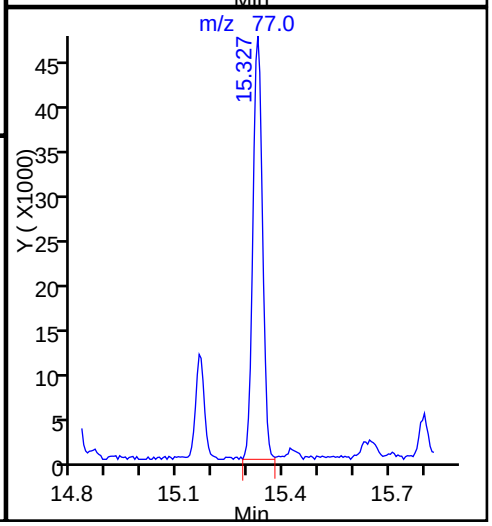


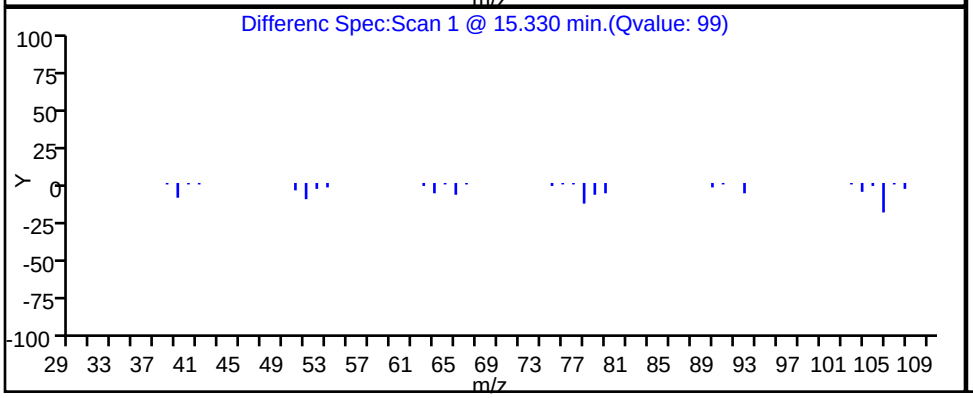






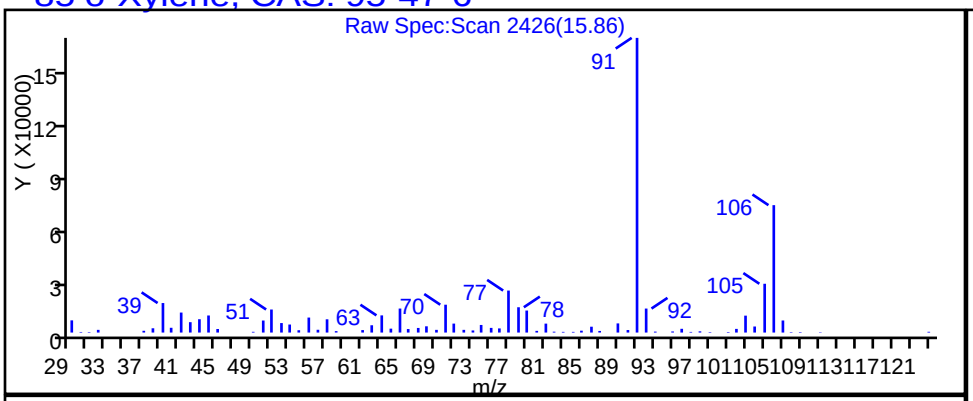


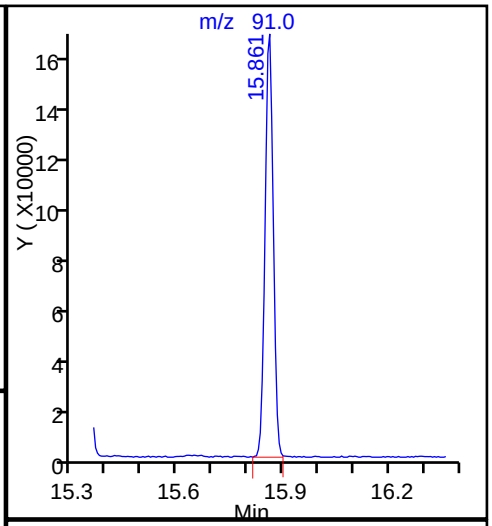


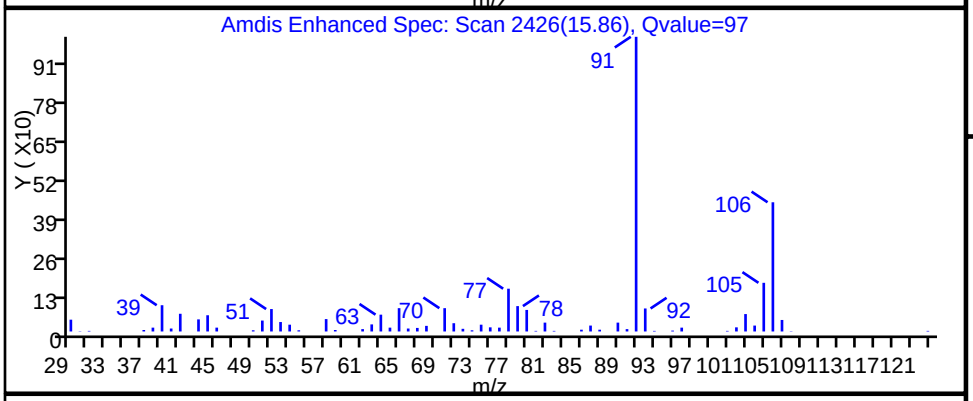


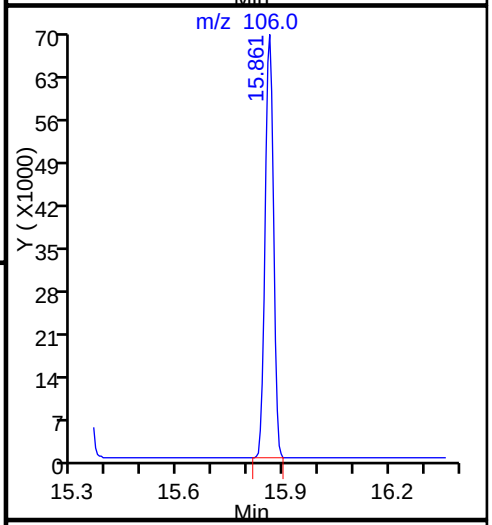
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

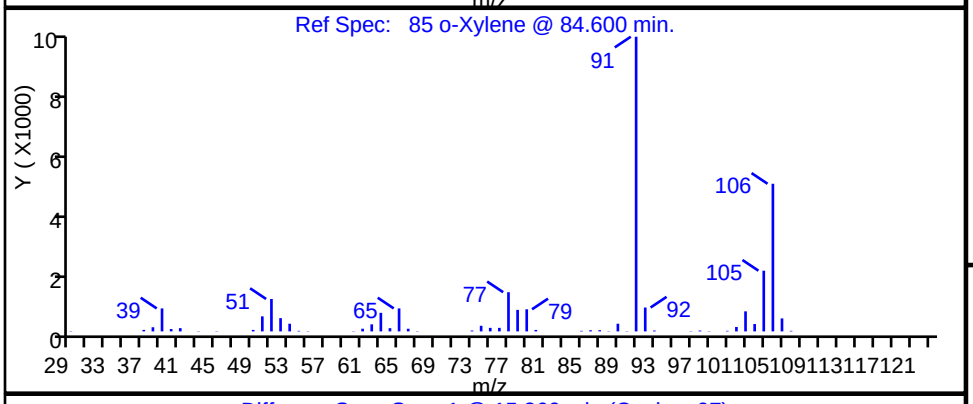
85 o-Xylene, CAS: 95-47-6

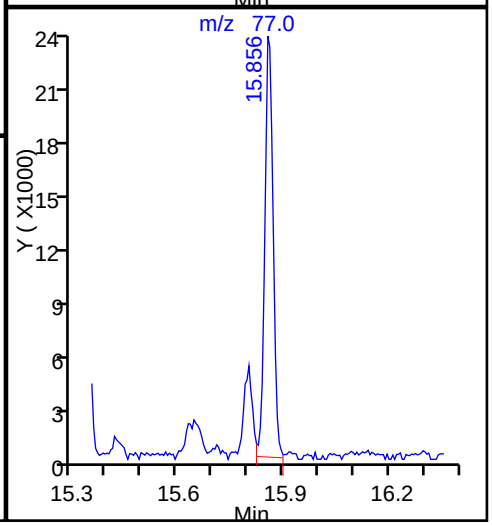


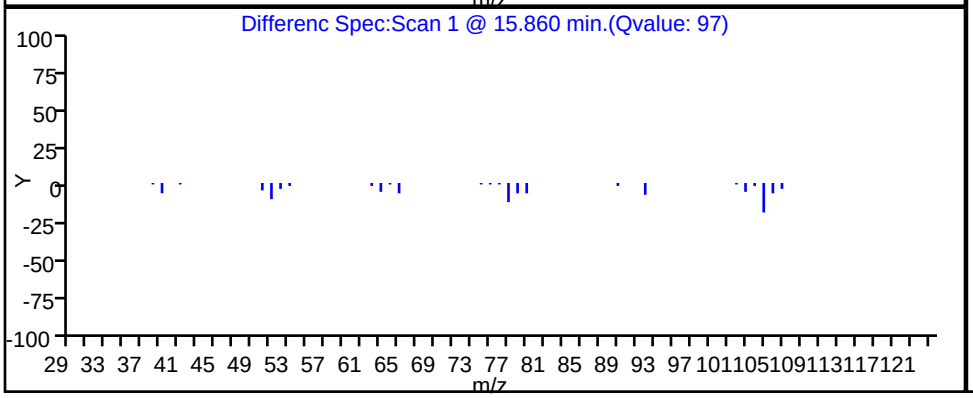






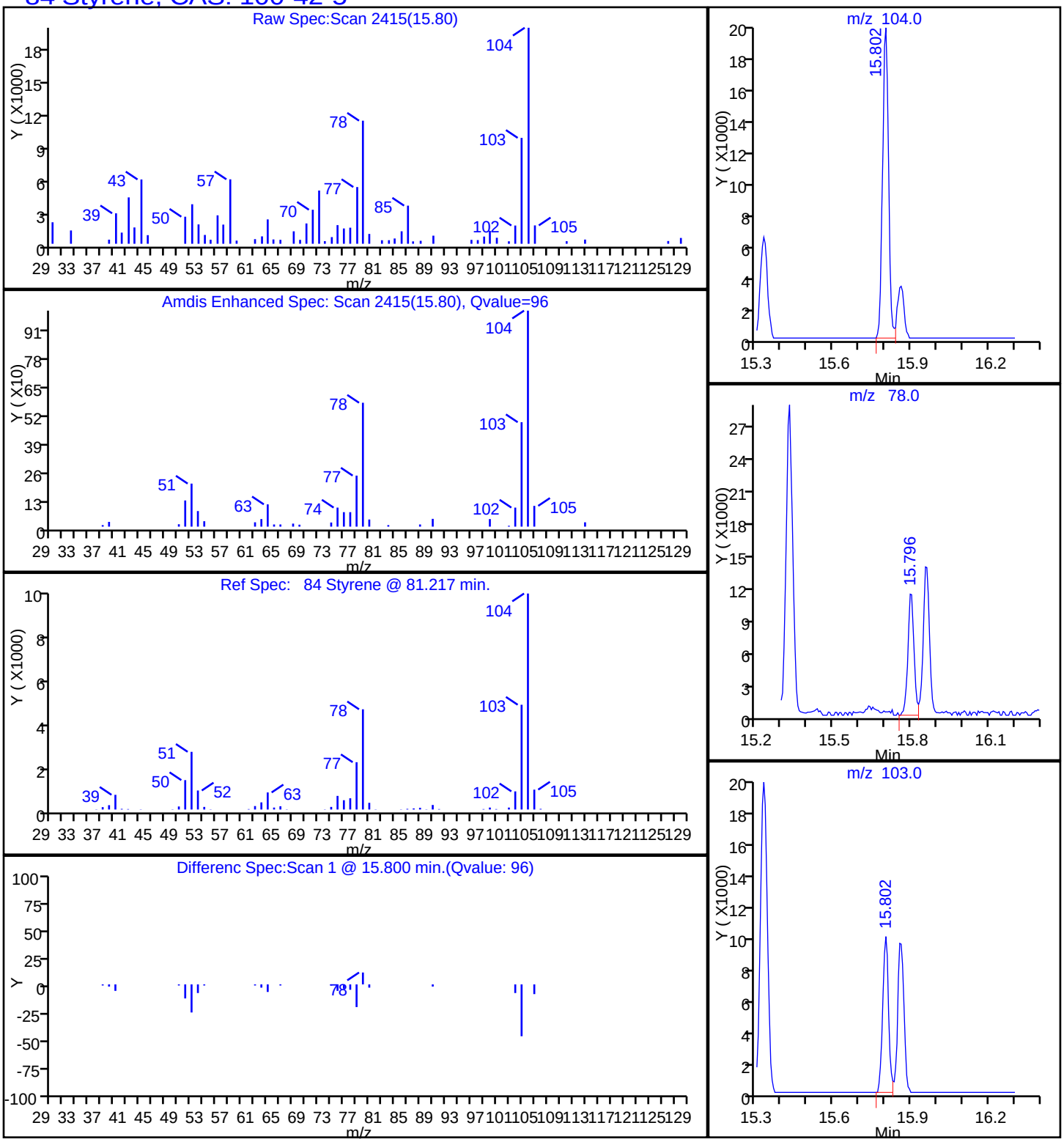






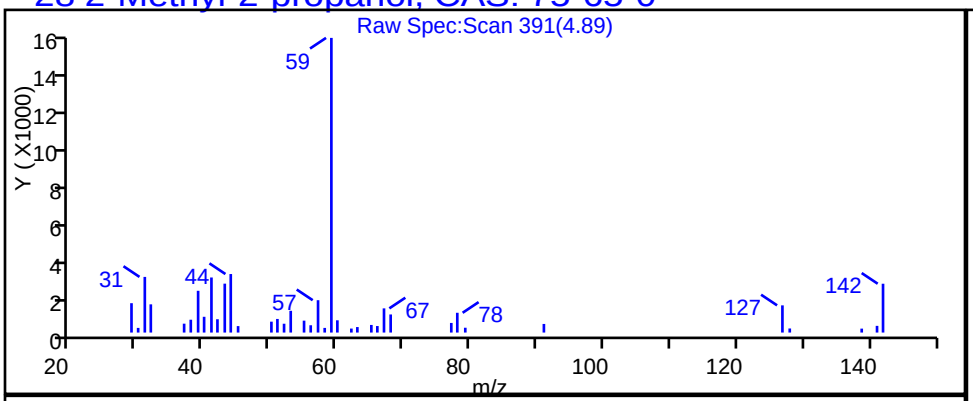
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Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

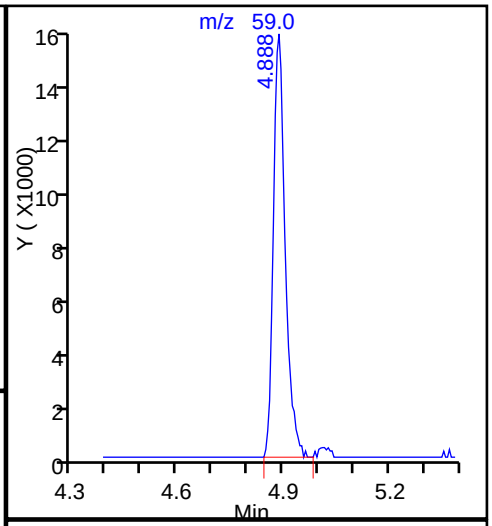
84 Styrene, CAS: 100-42-5

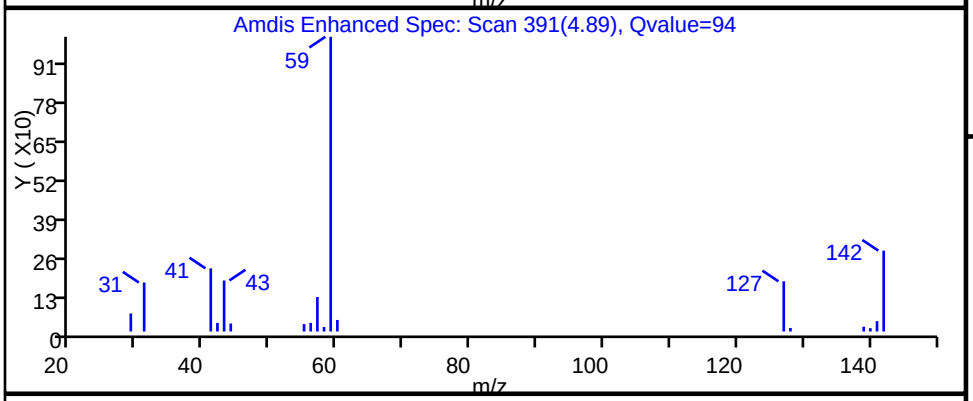


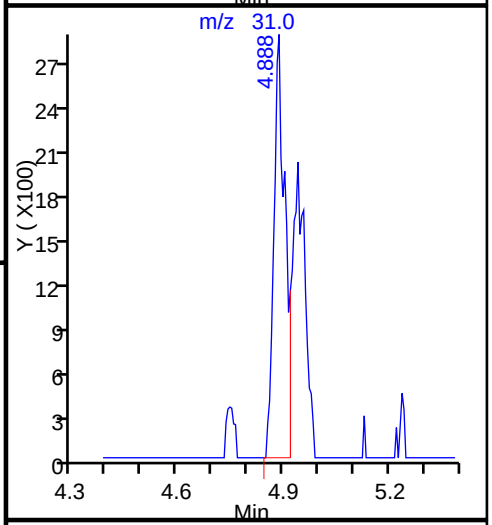
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
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Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

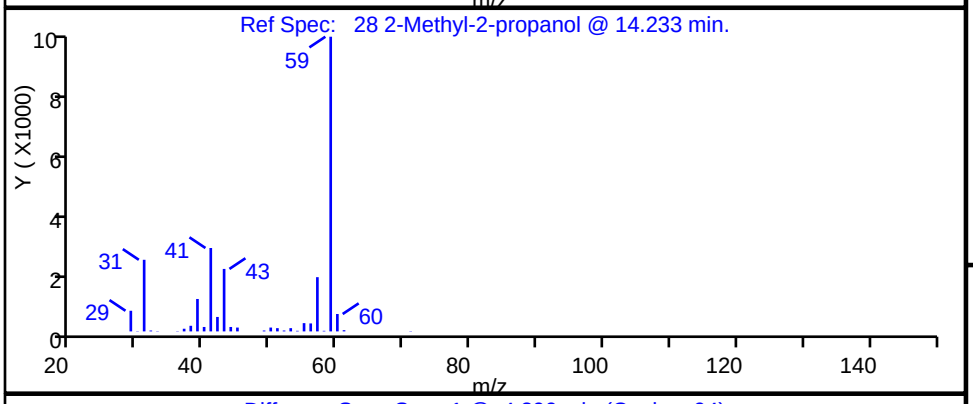
28 2-Methyl-2-propanol, CAS: 75-65-0

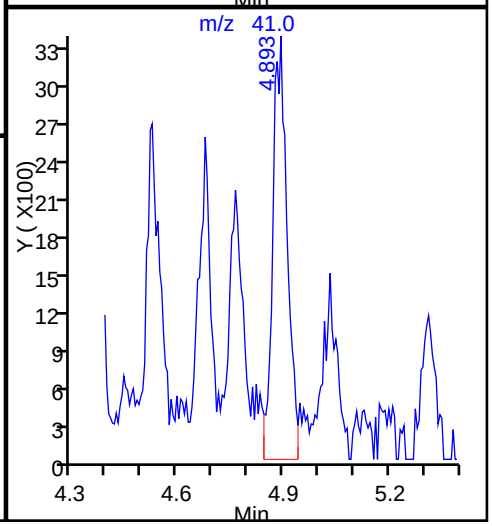


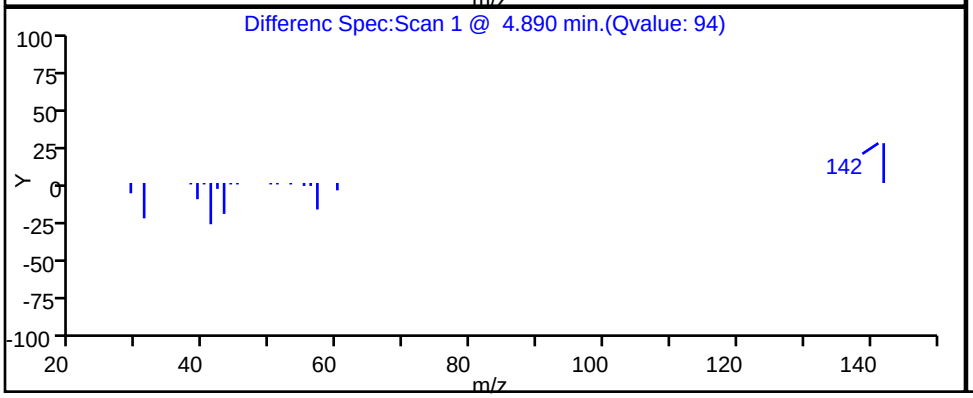






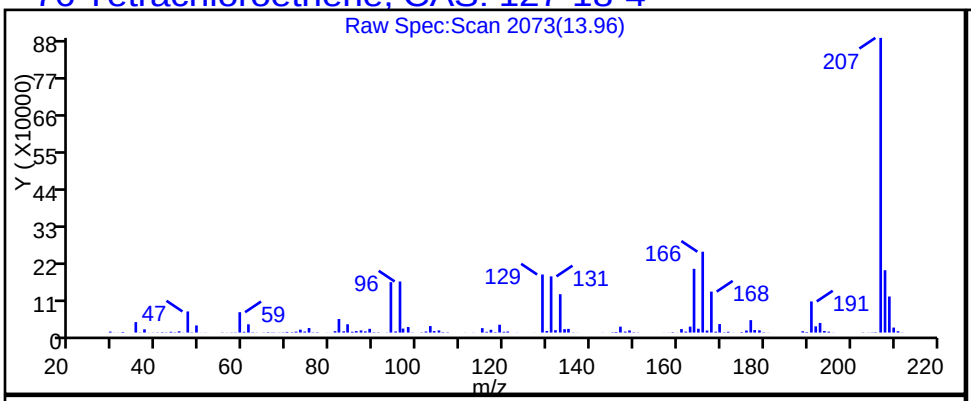


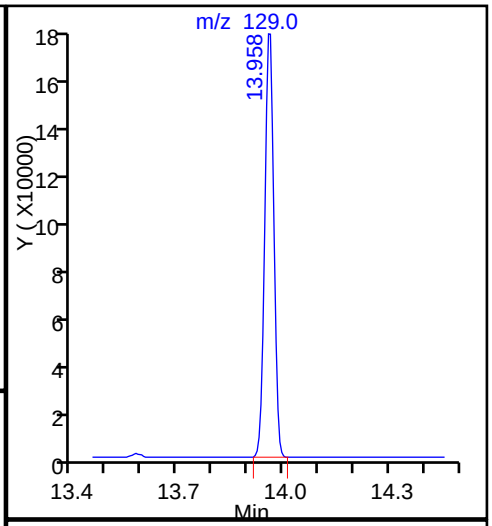


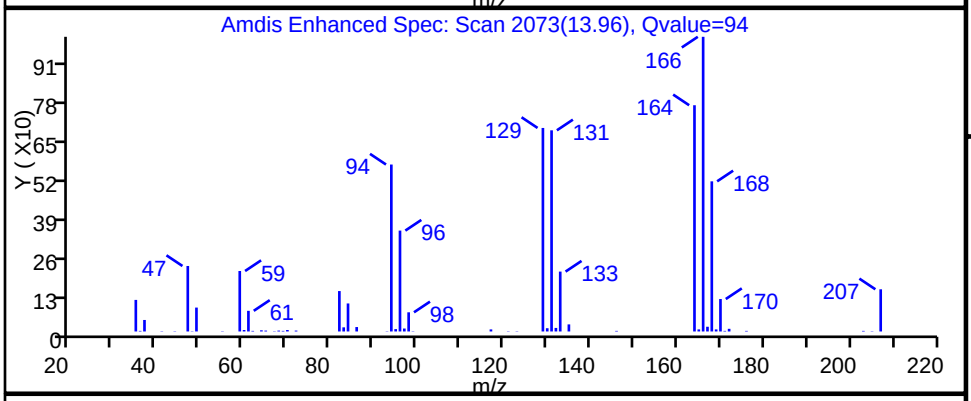


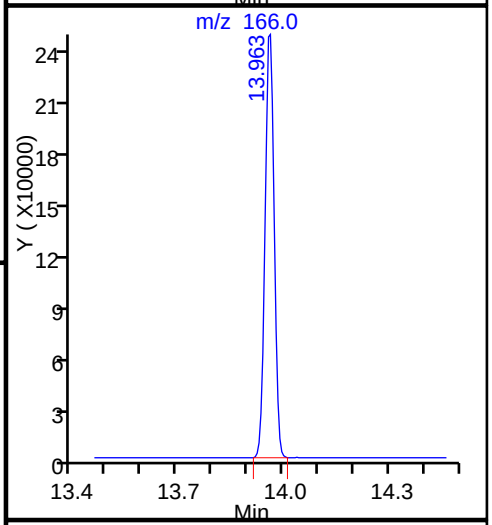
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P107R.D
Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
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Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

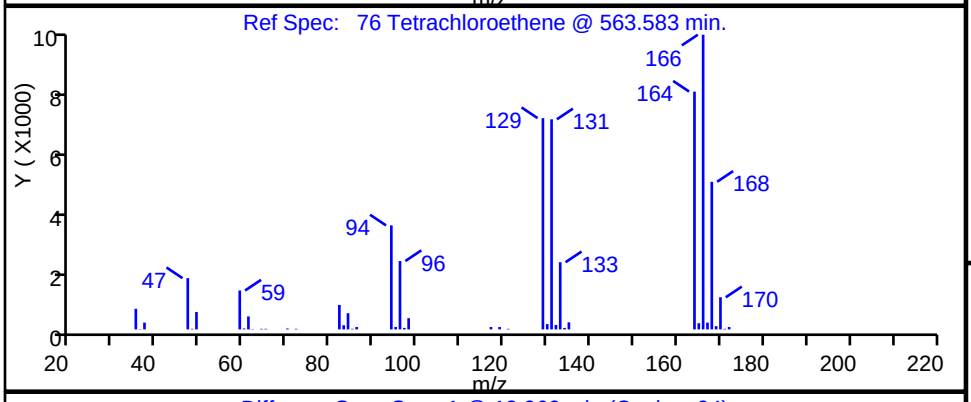
76 Tetrachloroethene, CAS: 127-18-4

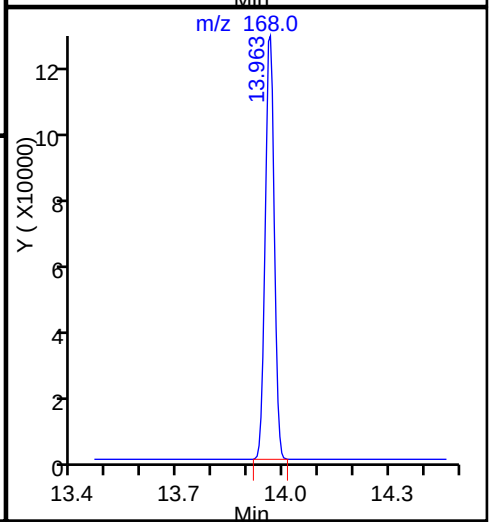


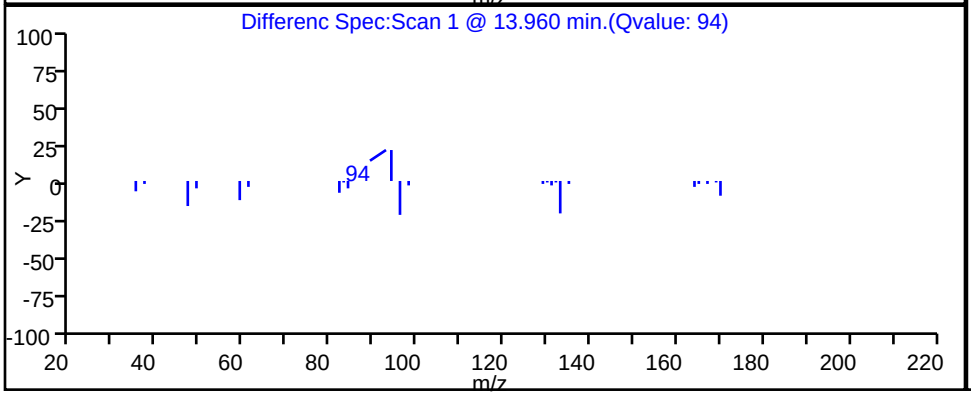








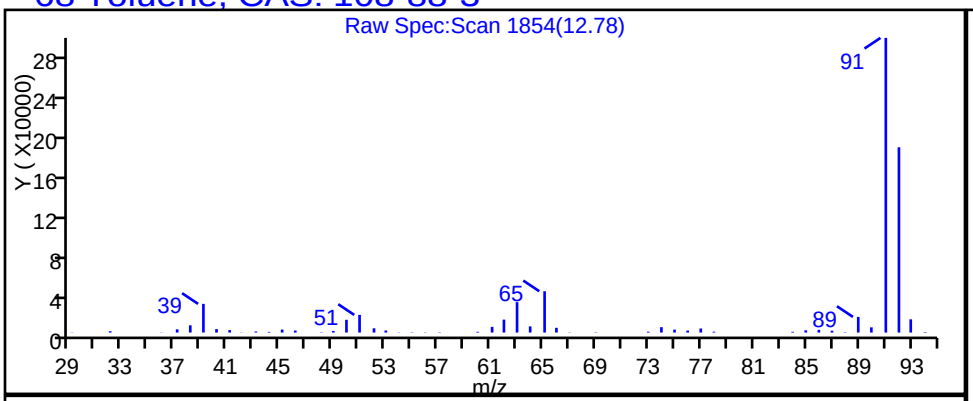


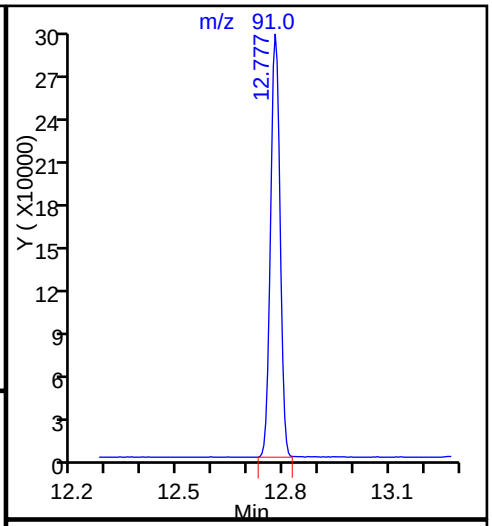


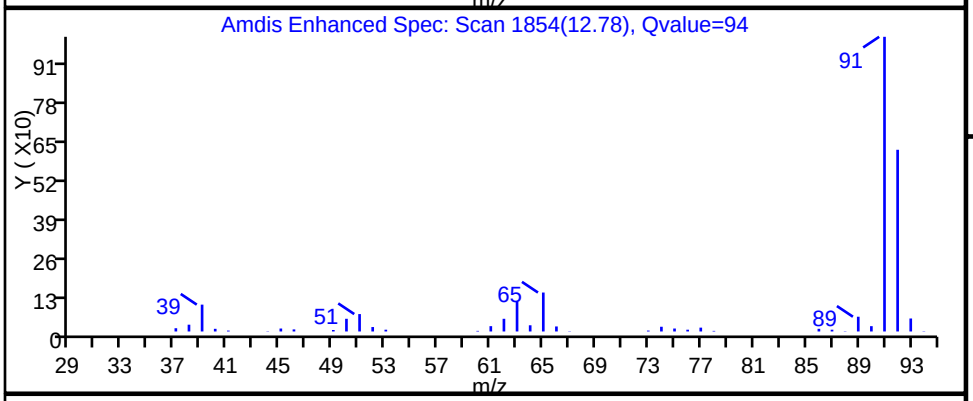
TestAmerica Knoxville

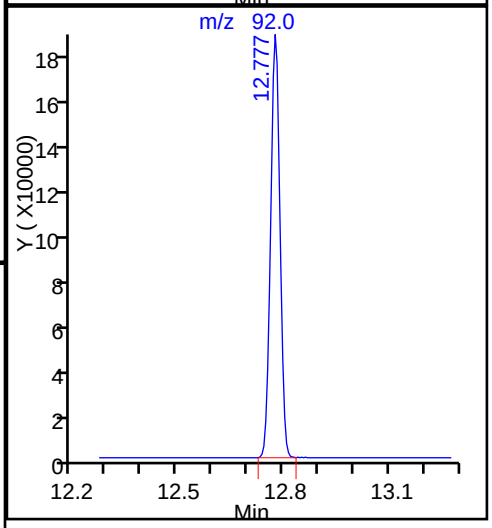
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Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME		
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6		
Client ID:	SG-213				
Operator ID:	007126	ALS Bottle#:	7	Worklist Smp#:	19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

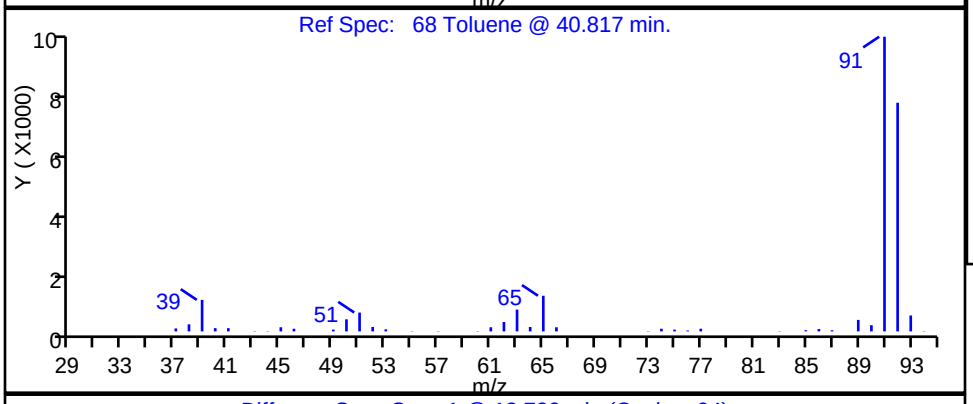
68 Toluene, CAS: 108-88-3

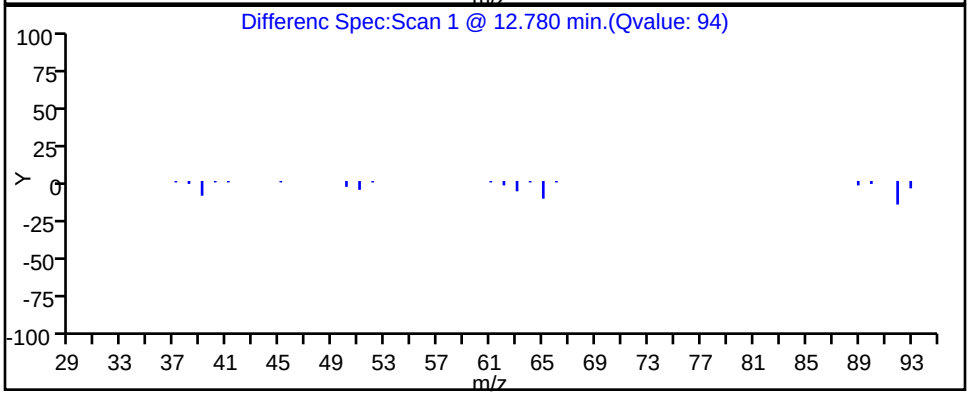






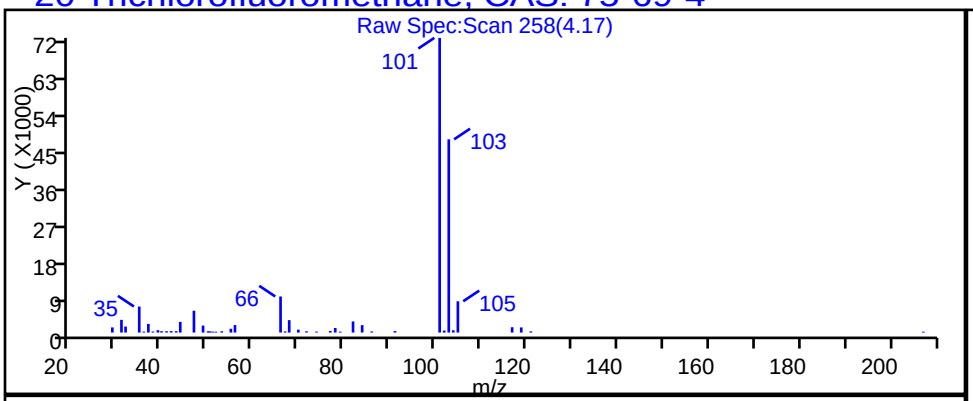


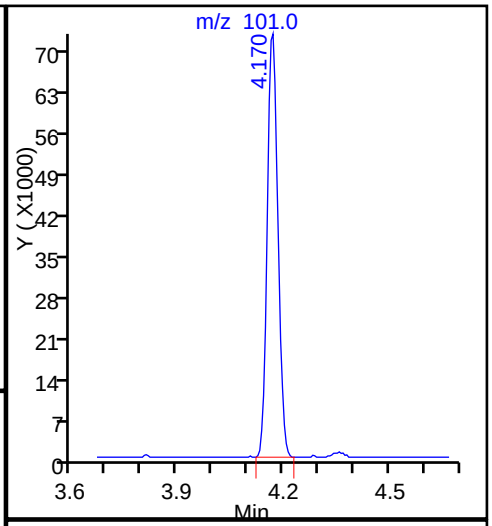


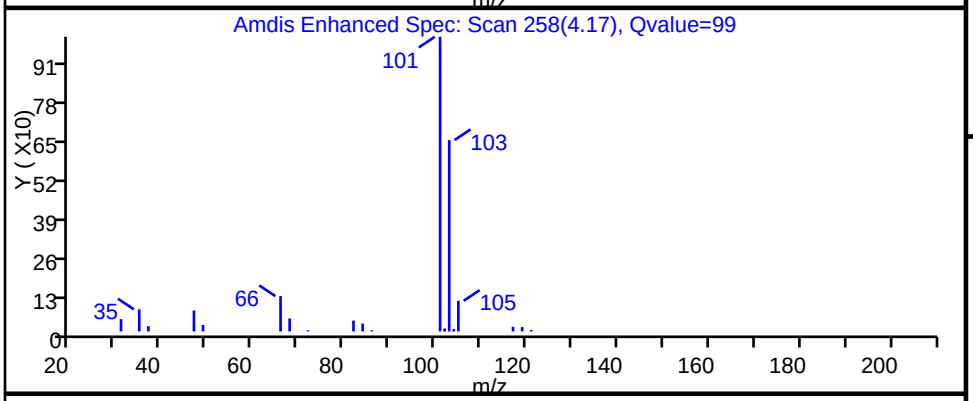


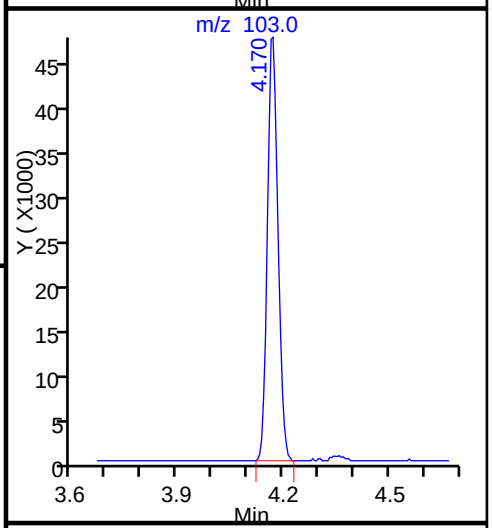
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Injection Date: 01-Sep-2016 23:25:30 Instrument ID: ME
Lims ID: 140-5720-A-6 Lab Sample ID: 140-5720-6
Client ID: SG-213
Operator ID: 007126 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.4200
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

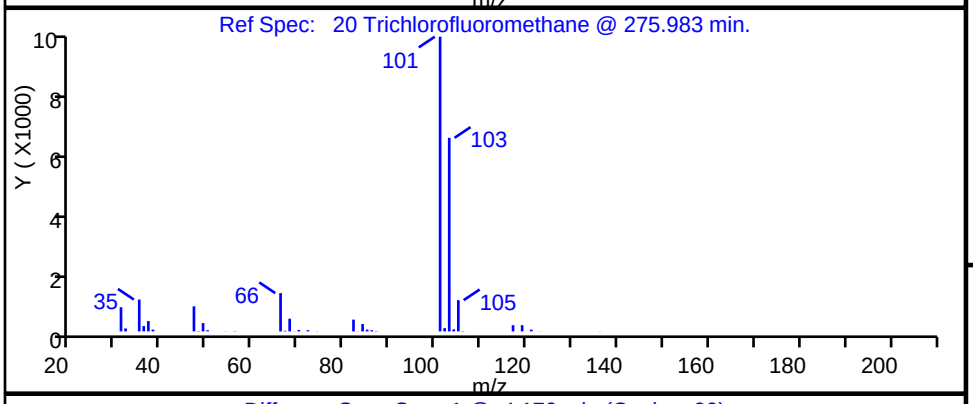
20 Trichlorofluoromethane, CAS: 75-69-4

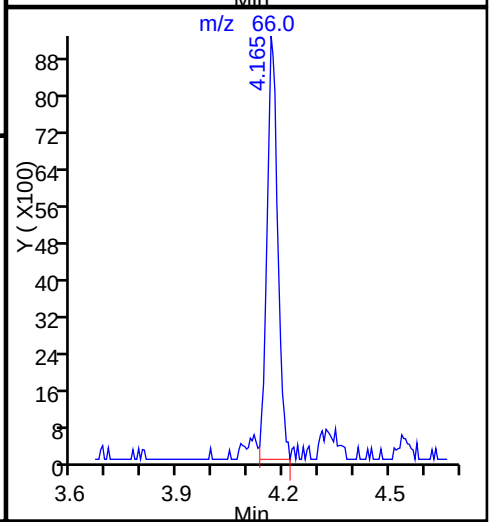


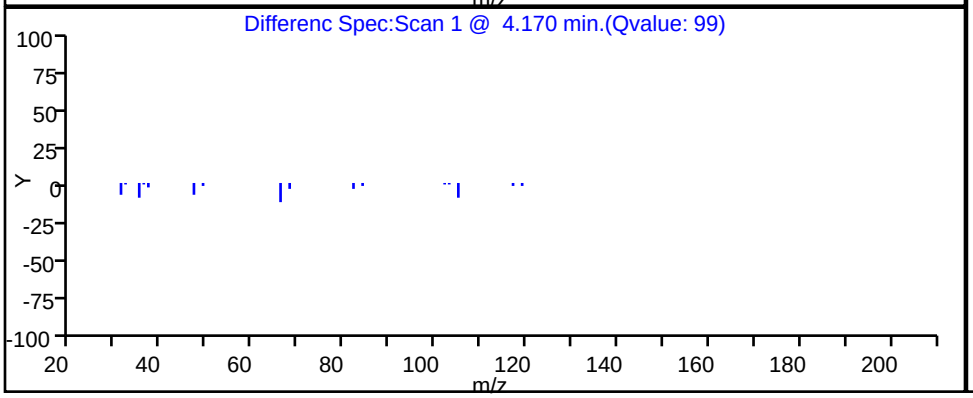












Manual Integration/User Assign Peak Report

TestAmerica Knoxville

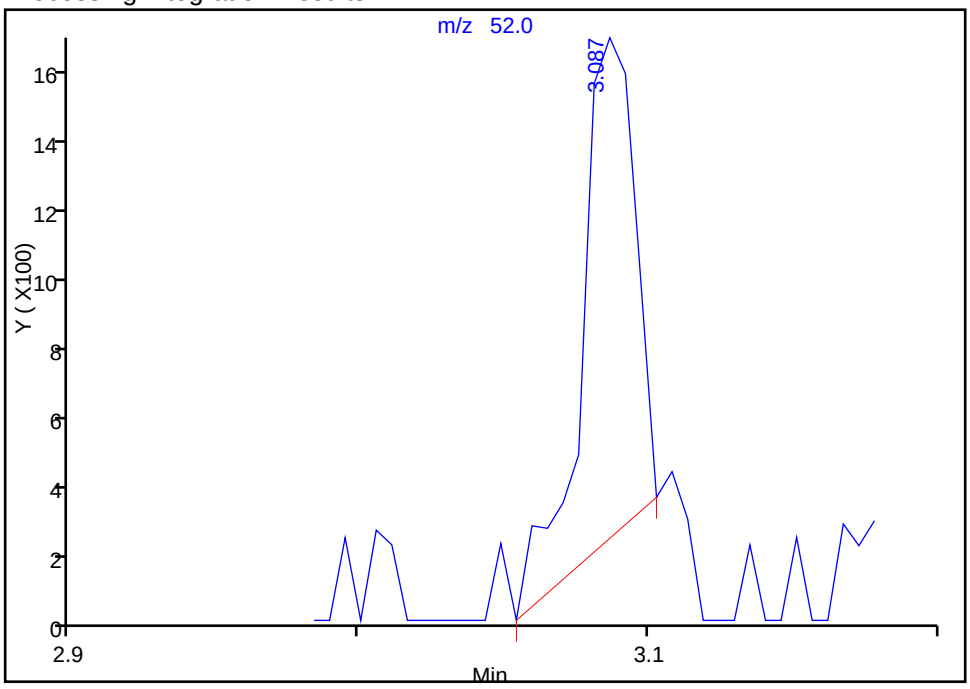
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Injection Date:	01-Sep-2016 23:25:30	Instrument ID:	ME
Lims ID:	140-5720-A-6	Lab Sample ID:	140-5720-6
Client ID:	SG-213		
Operator ID:	007126	ALS Bottle#:	7 Worklist Smp#: 19
Purge Vol:	500.000 mL	Dil. Factor:	1.4200
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

9 Chloromethane, CAS: 74-87-3

Signal: 1

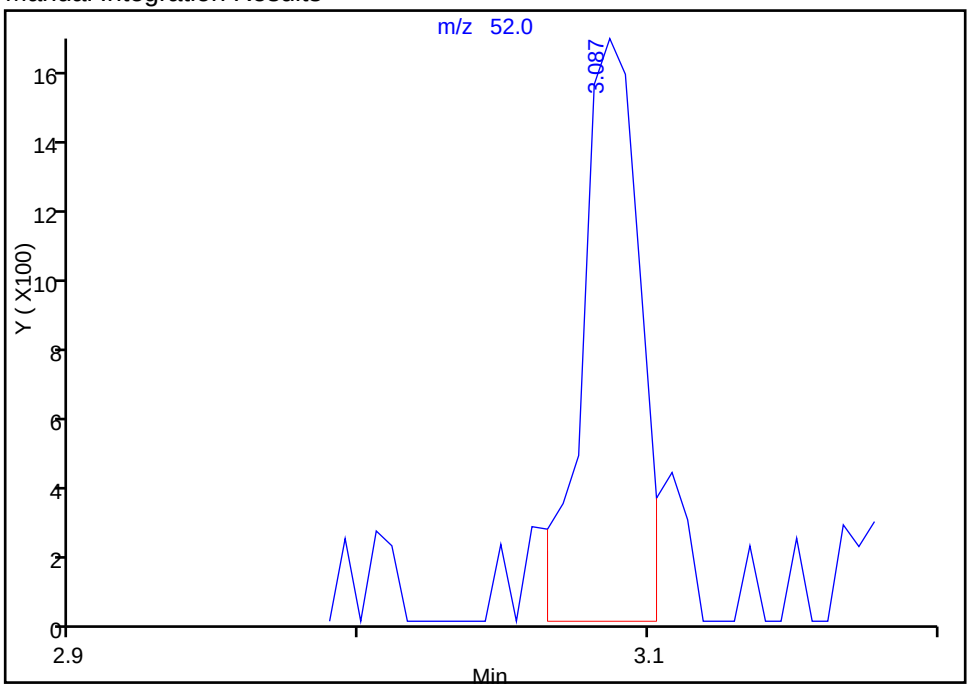
Processing Integration Results

RT: 3.09
Area: 1776
Amount: 0.106068
Amount Units: ppb v/v



Manual Integration Results

RT: 3.09
Area: 2243
Amount: 0.133959
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 02-Sep-2016 12:33:40

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: AA-1 | Lab Sample ID: 140-5720-7

Matrix: Air | Lab File ID: EI01P108.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:14

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 17:24

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.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.22		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	0.42		0.20	
78-93-3	2-Butanone	72.11	1.0		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.1		0.20	
71-43-2	Benzene	78.11	0.24		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.070		0.040	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	0.96		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: AA-1 Lab Sample ID: 140-5720-7

Matrix: Air Lab File ID: EI01P108.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 13:14

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 17:24

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.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.080	
64-17-5	Ethanol	46.07	49		2.0	
100-41-4	Ethylbenzene	106.17	0.17		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	0.57		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	0.90		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	0.54		0.080	
95-47-6	o-Xylene	106.17	0.21		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	0.86		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	0.32		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: AA-1 | Lab Sample ID: 140-5720-7

Matrix: Air | Lab File ID: EI01P108.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:14

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 17:24

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.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.1		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	2.0		0.93	
78-93-3	2-Butanone	72.11	3.0		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	8.8		0.82	
71-43-2	Benzene	78.11	0.75		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	0.44		0.25	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	2.0		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: AA-1 Lab Sample ID: 140-5720-7

Matrix: Air Lab File ID: EI01P108.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 13:14

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 17:24

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.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.40	
64-17-5	Ethanol	46.07	92		3.8	
100-41-4	Ethylbenzene	106.17	0.72		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	2.0		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	3.1		0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	2.4		0.35	
95-47-6	o-Xylene	106.17	0.92		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	3.2		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-69-4	Trichlorofluoromethane	137.37	1.8		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D
Lims ID: 140-5720-A-7
Client ID: AA-1
Sample Type: Client
Inject. Date: 01-Sep-2016 17:24:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003369-011
Misc. Info.: 140-5720-a-7
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 18:29:15 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 18:29:15

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
*	1 Chlorobromomethane (IS)	128	7.562	7.568	-0.006	73	267627	4.00	
*	2 1,4-Difluorobenzene	114	9.805	9.811	-0.006	94	1320262	4.00	
*	3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1219989	4.00	
$	4 4-Bromofluorobenzene (Surr	95	16.481	16.487	-0.006	87	1018685	4.08	
	8 Dichlorodifluoromethane	85	2.946	2.946	0.000	99	141487	0.5027	
	9 Chloromethane	52	3.092	3.097	-0.005	99	17304	0.9577	
	10 1,2-Dichloro-1,1,2,2-tetra	135	3.103	3.103	0.000	96	2321	0.0155	
	15 Bromomethane	94	3.572	3.577	-0.005	89	1420	0.0174	
	16 Chloroethane	64	3.696	3.696	0.000	77	1501	0.0391	
	17 Ethanol	31	3.782	3.777	0.005	99	922105	48.6	
	20 Trichlorofluoromethane	101	4.165	4.165	0.000	99	86739	0.3184	
	28 2-Methyl-2-propanol	59	4.893	4.877	0.016	91	6665	0.0601	
	30 1,1,2-Trichloro-1,2,2-trif	101	4.941	4.942	-0.001	95	11749	0.0668	
	31 Methylene Chloride	84	5.103	5.103	0.000	79	75308	0.8971	
	39 2-Butanone (MEK)	72	6.829	6.834	-0.005	96	39725	1.02	
	40 Hexane	56	6.834	6.840	-0.006	76	29849	0.5710	
	44 Chloroform	83	7.578	7.584	-0.006	87	12656	0.0567	
	50 Cyclohexane	69	9.196	9.196	0.000	56	6480	0.1448	
	51 Benzene	78	9.196	9.202	-0.006	95	63930	0.2363	
	52 Carbon tetrachloride	117	9.212	9.223	-0.011	79	18412	0.0705	
	56 Isooctane	57	10.037	10.037	0.000	97	133100	0.4232	
	65 4-Methyl-2-pentanone (MIBK	43	11.881	11.887	-0.006	92	227149	2.14	
	68 Toluene	91	12.777	12.777	0.000	94	251500	0.8595	
	76 Tetrachloroethene	129	13.952	13.963	-0.011	31	5076	0.0446	
	79 Ethylbenzene	91	15.160	15.166	-0.006	98	64975	0.1655	
	81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	165760	0.5414	
	85 o-Xylene	91	15.861	15.861	0.000	96	68420	0.2129	
	92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	92	10650	0.0572	
	96 1,2,4-Trimethylbenzene	105	17.727	17.732	-0.005	98	76271	0.2211	
	100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	89	13155	0.0646	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

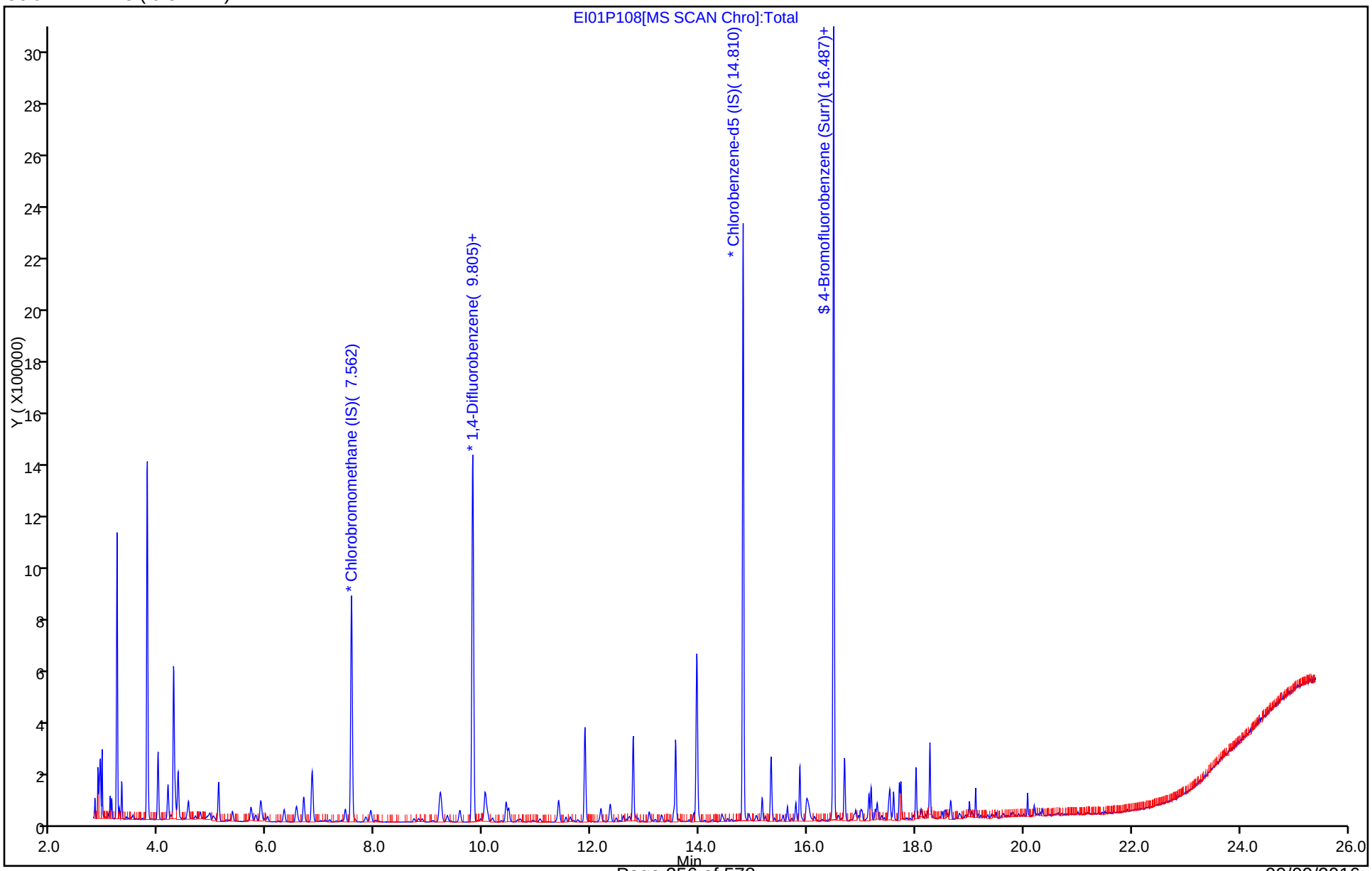
Report Date: 01-Sep-2016 18:29:16 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D

Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7	Worklist Smp#:	11
Client ID:	AA-1				
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
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Lims ID:	140-5720-A-7				
Client ID:	AA-1				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 17:24:30	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003369-011				
Misc. Info.:	140-5720-a-7				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 18:29:15	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
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Process Host:	XAWRK023				

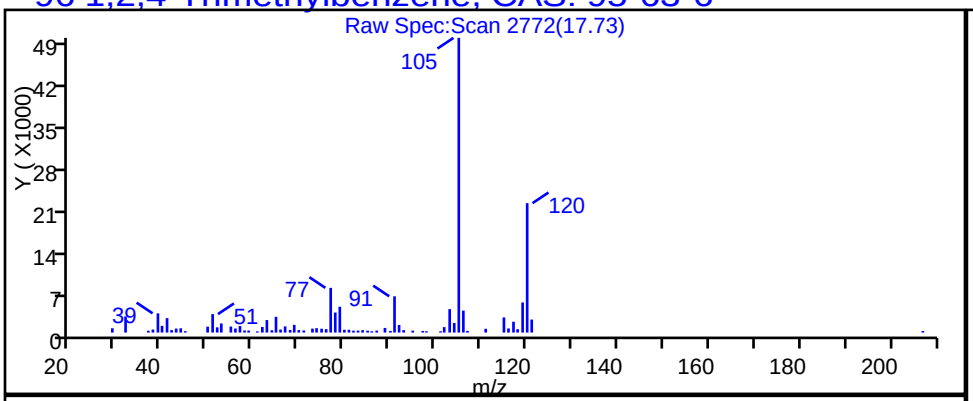
First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 18:29:15

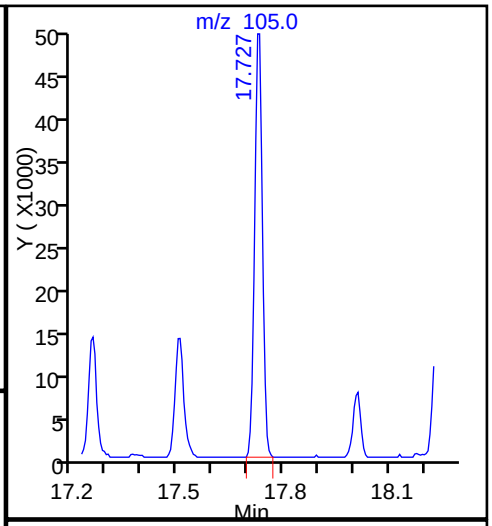
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.08	102.01

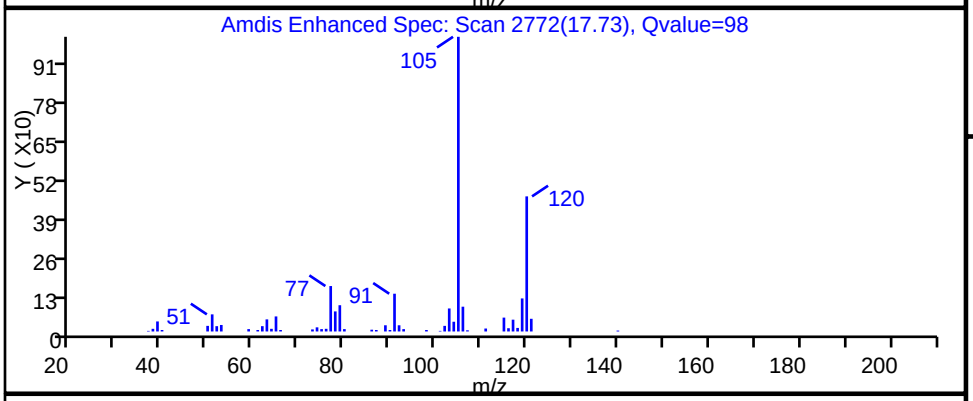
TestAmerica Knoxville

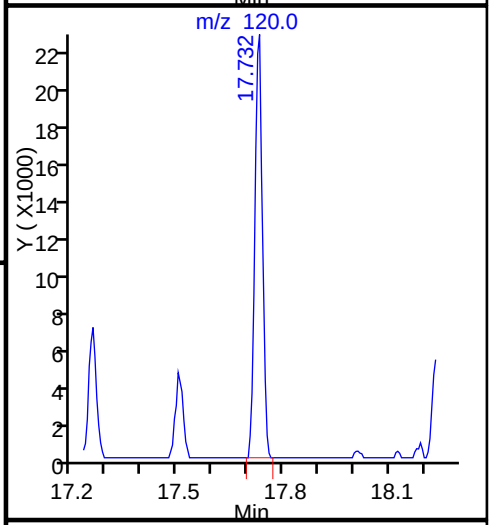
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Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

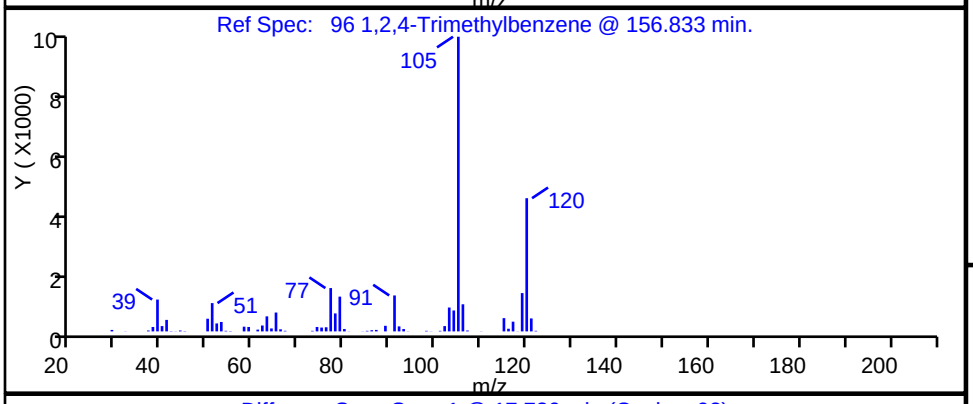
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

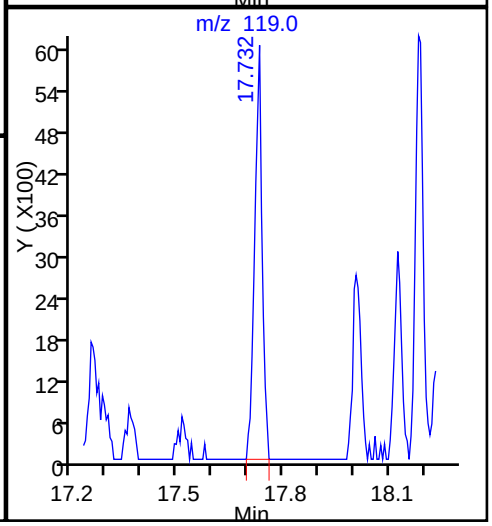


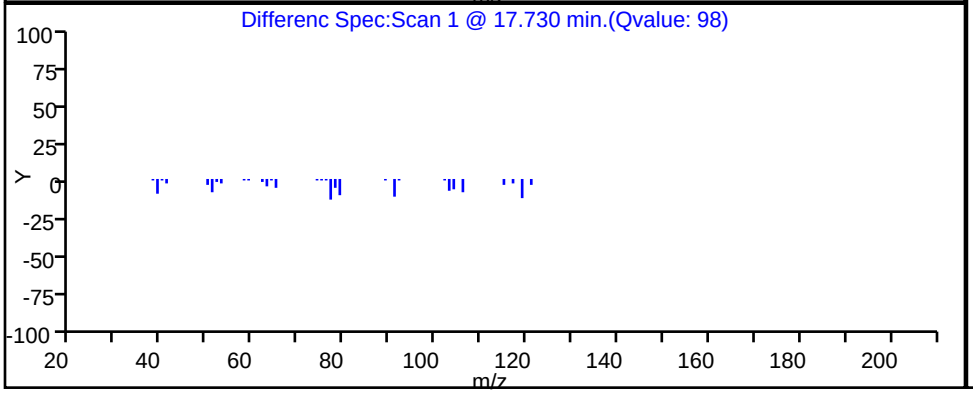








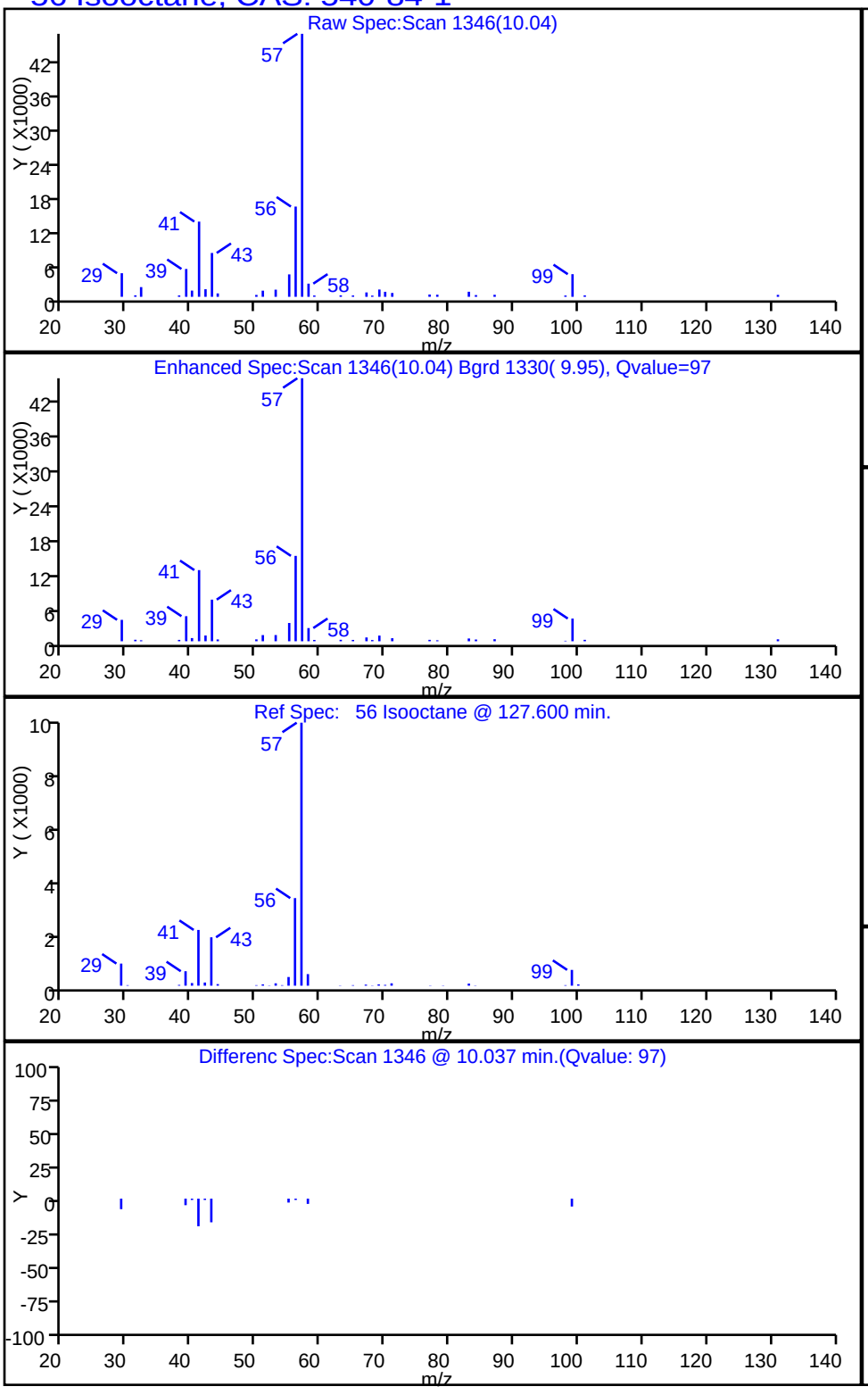


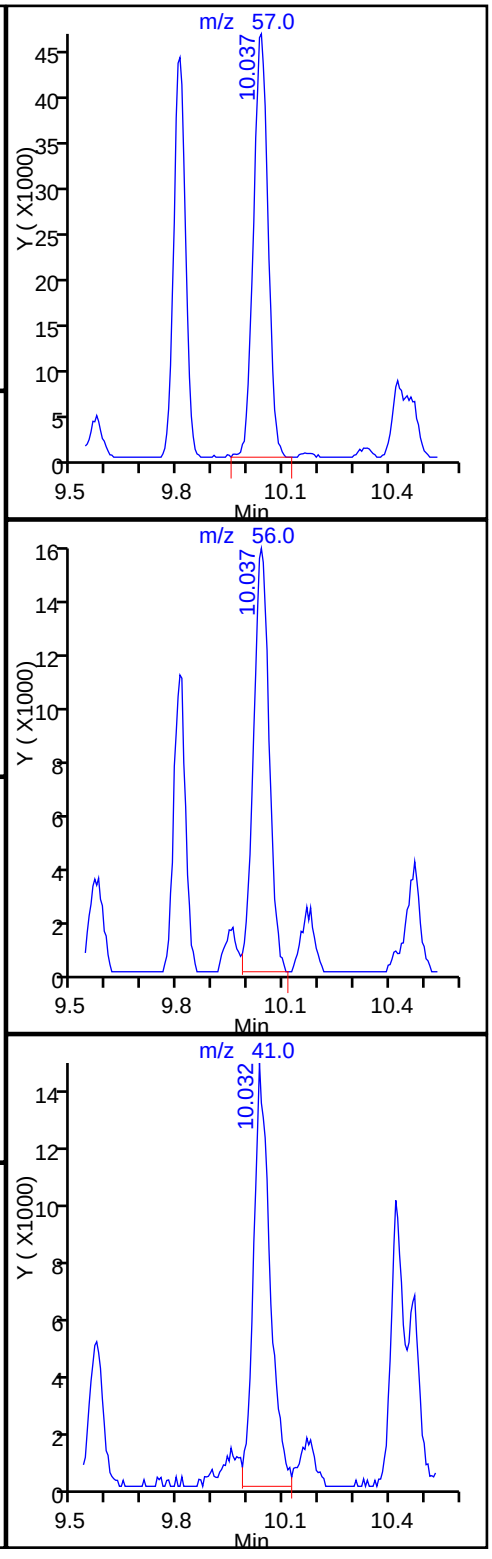


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	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		

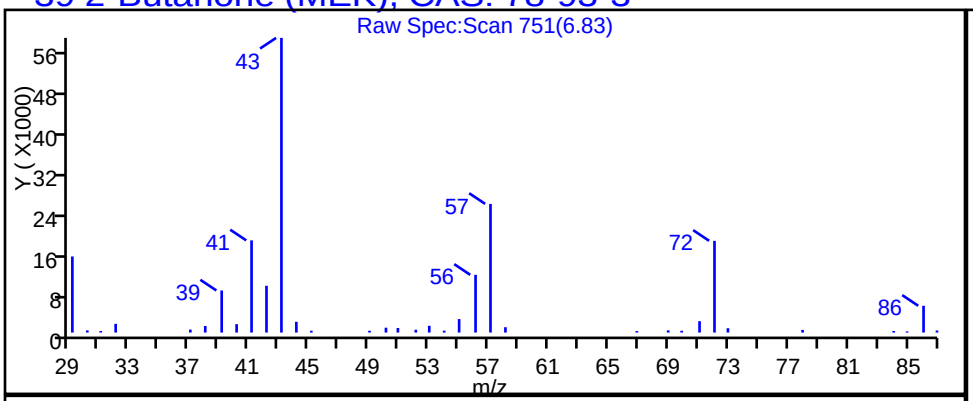
56 Isooctane, CAS: 540-84-1

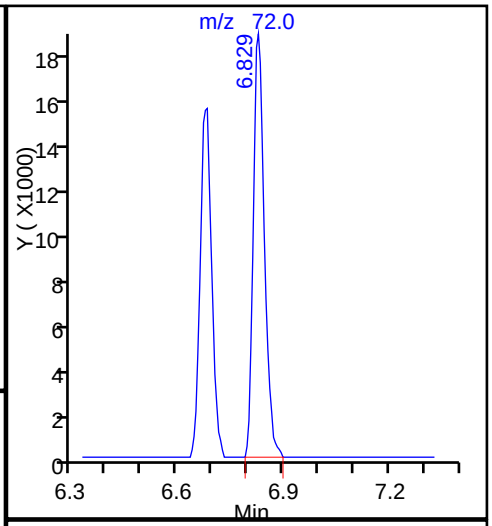


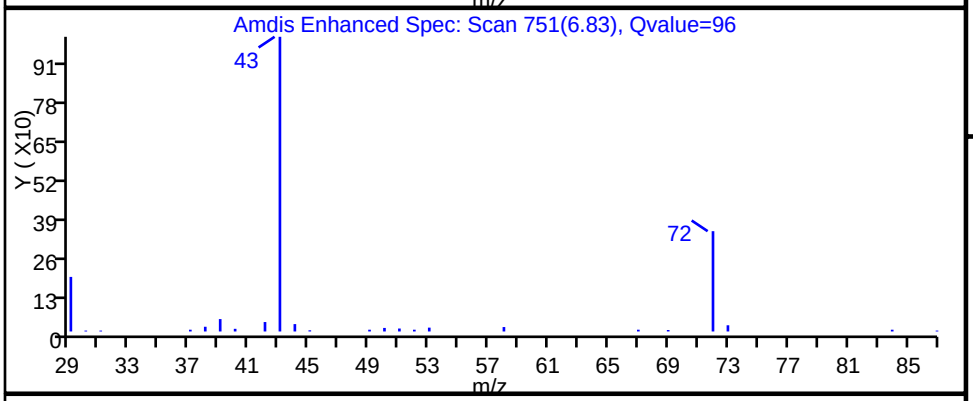


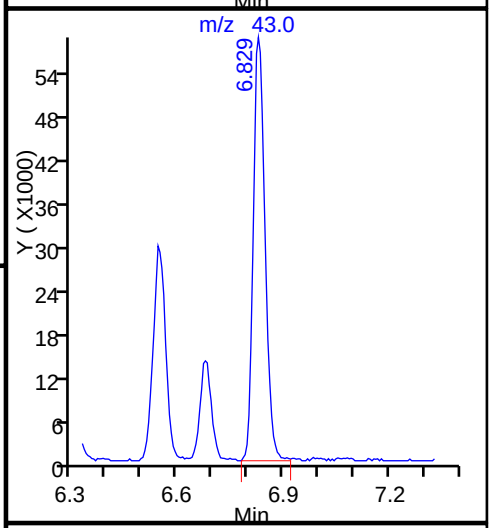
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Injection Date: 01-Sep-2016 17:24:30 Instrument ID: ME
Lims ID: 140-5720-A-7 Lab Sample ID: 140-5720-7
Client ID: AA-1
Operator ID: 007126 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

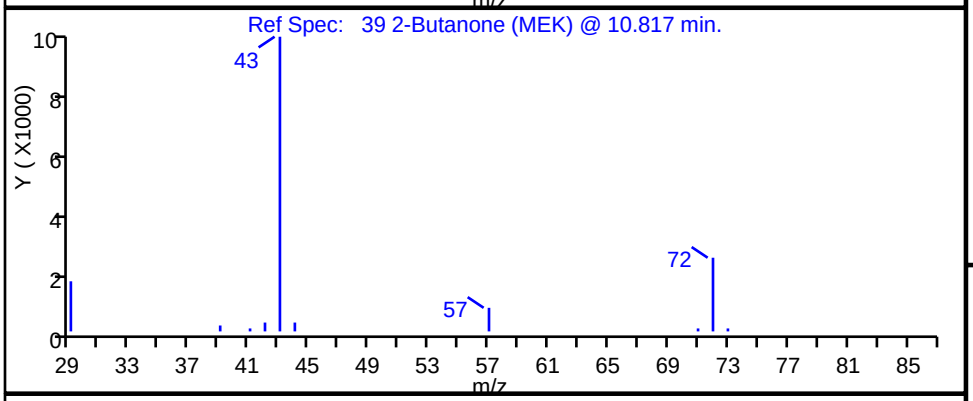
39 2-Butanone (MEK), CAS: 78-93-3

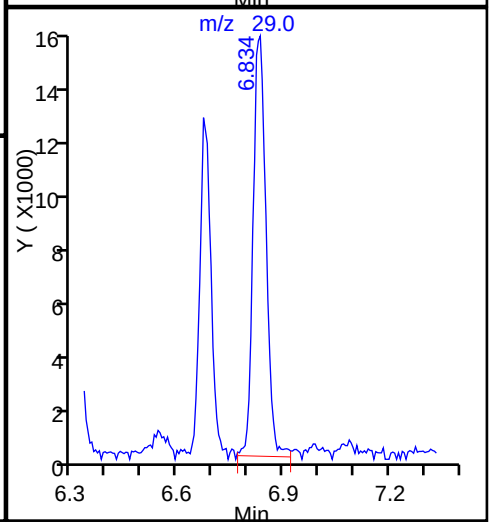


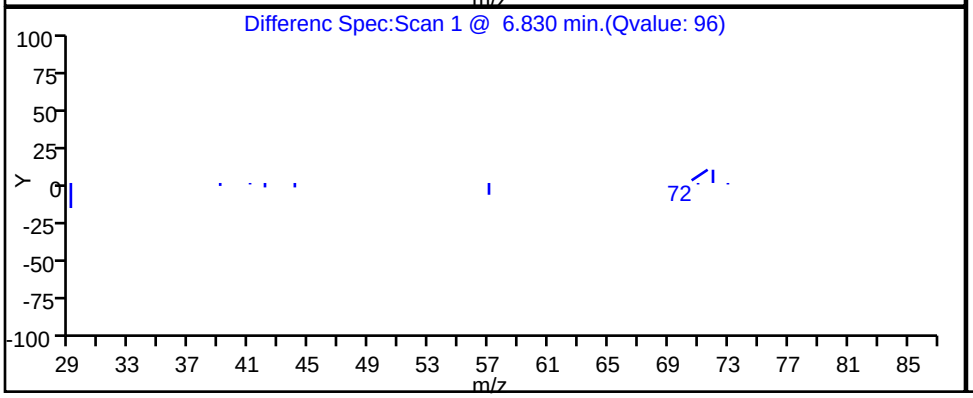








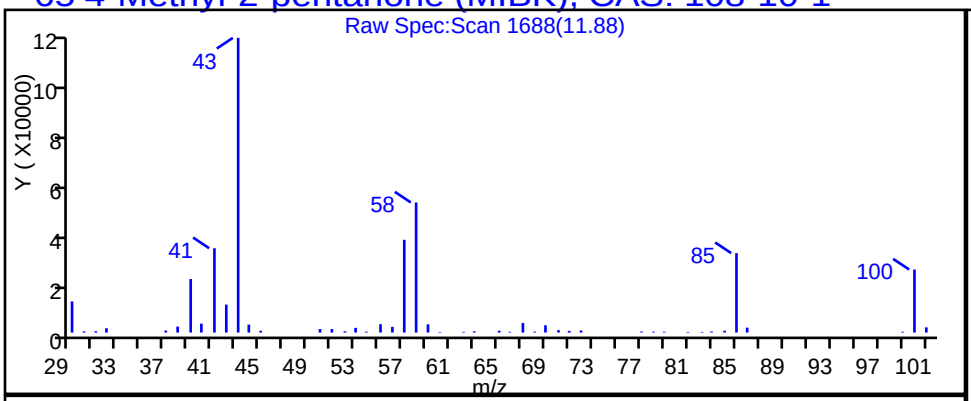


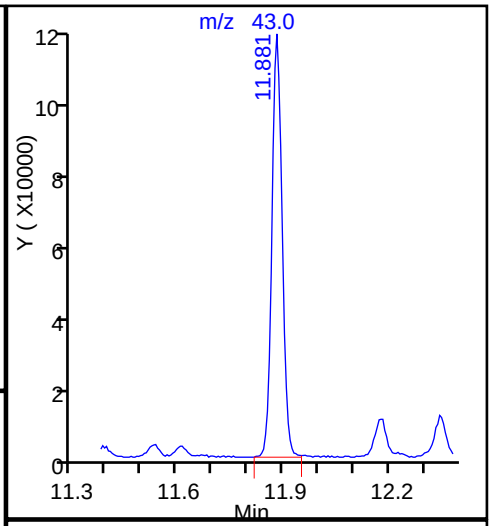


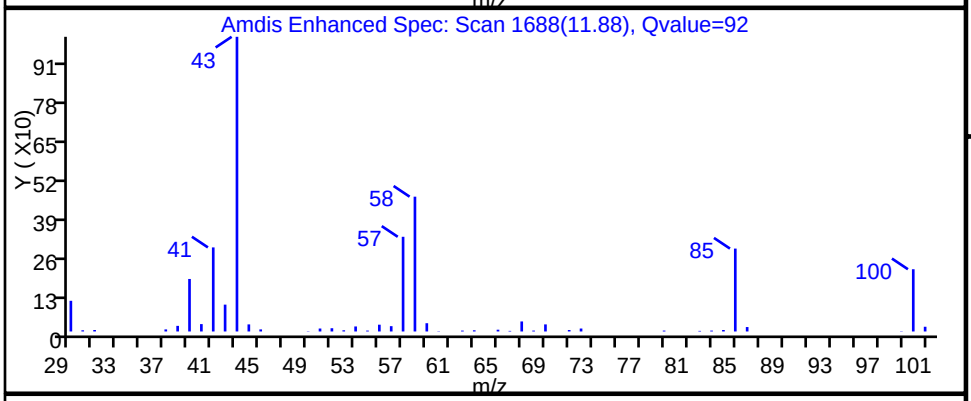
TestAmerica Knoxville

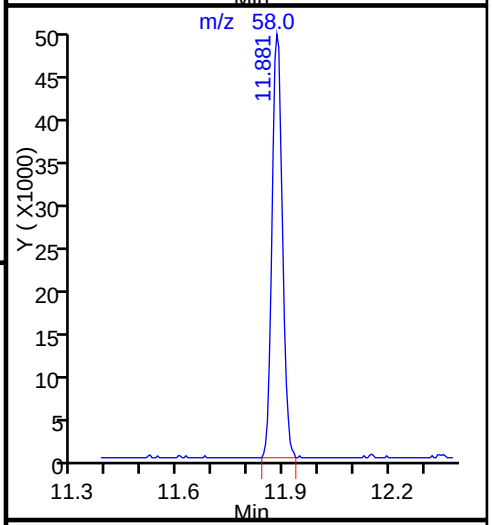
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Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

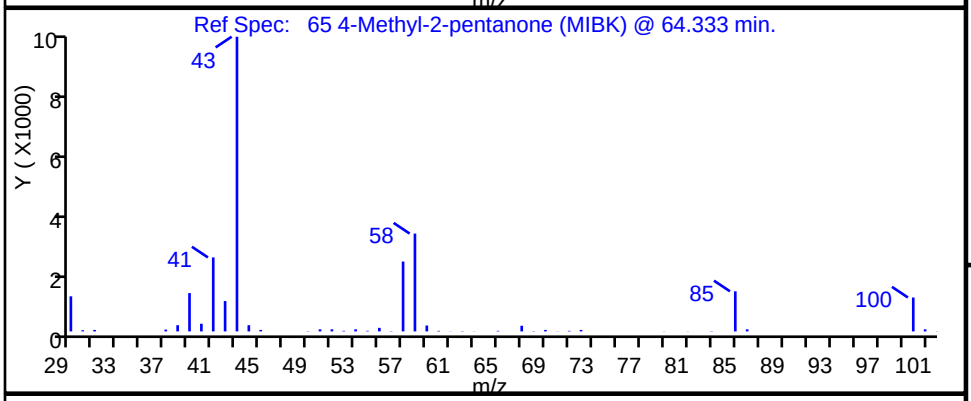
65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

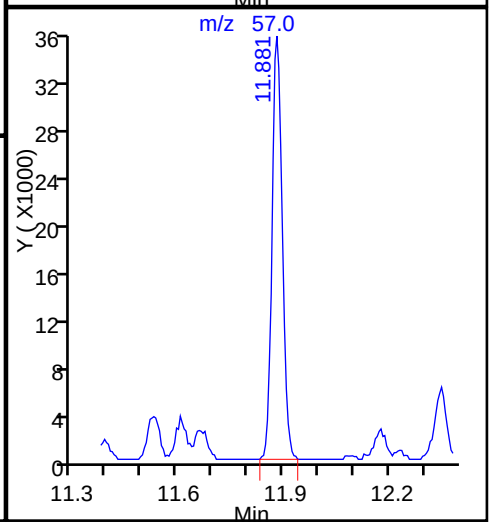


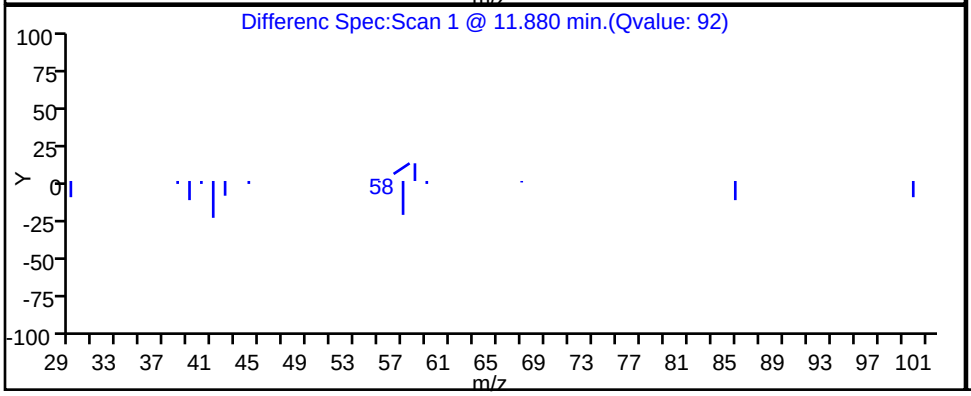








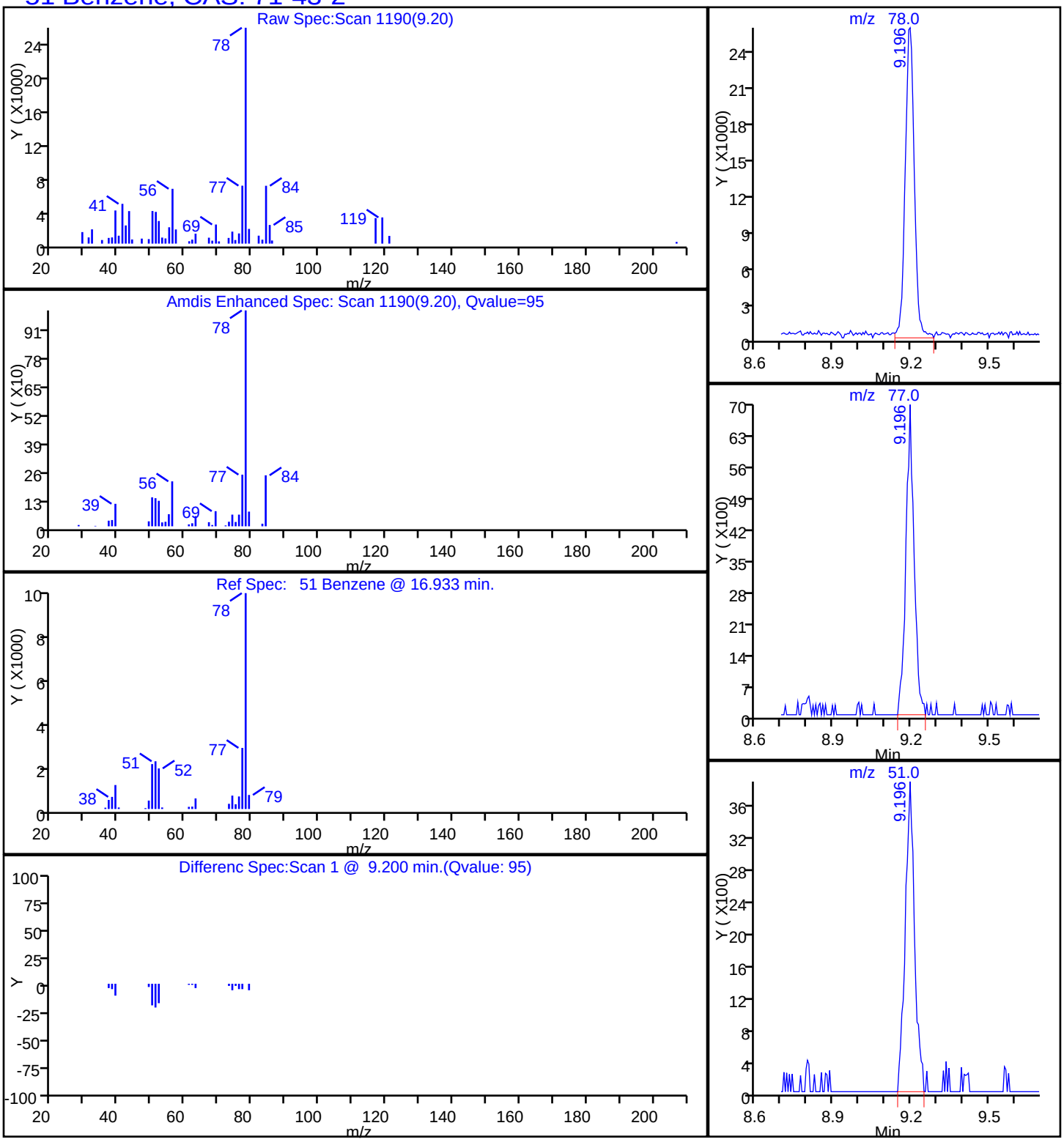




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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	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		

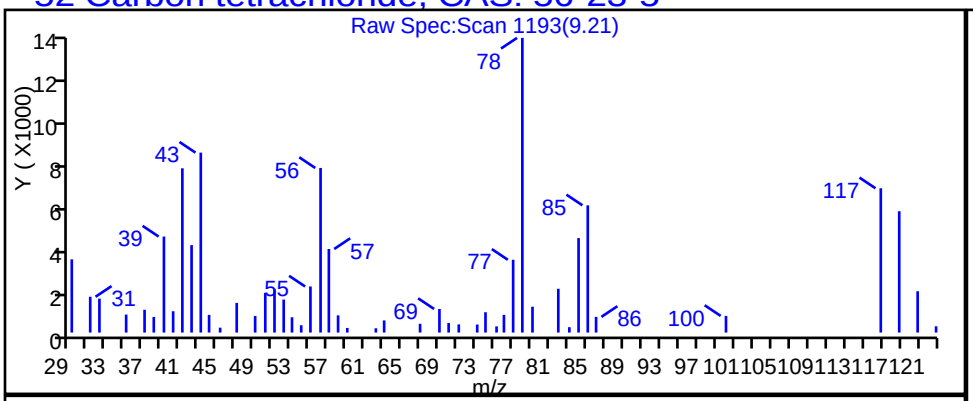
51 Benzene, CAS: 71-43-2

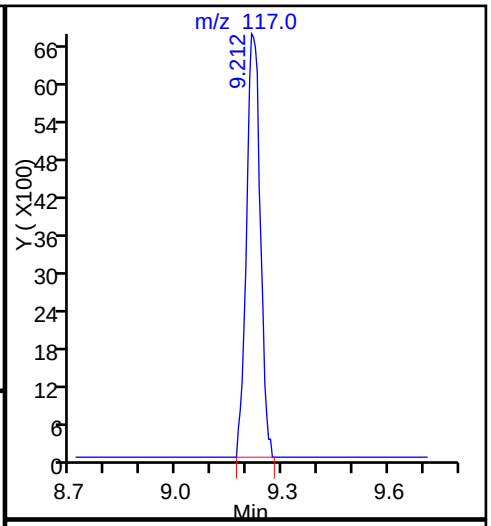


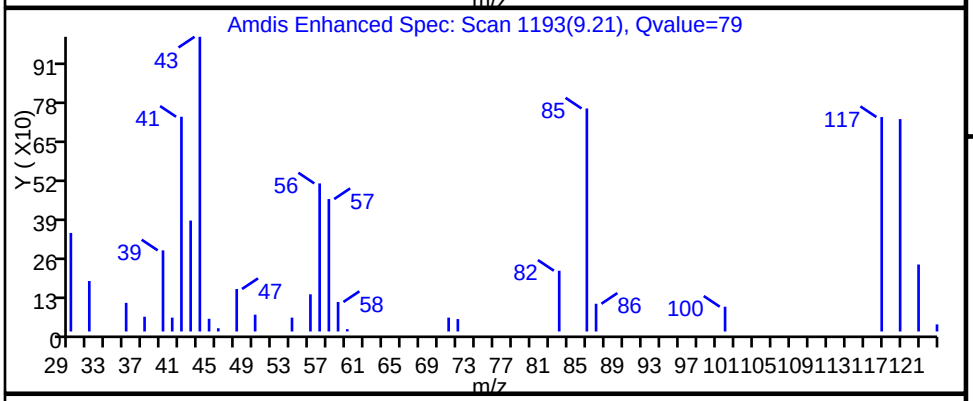
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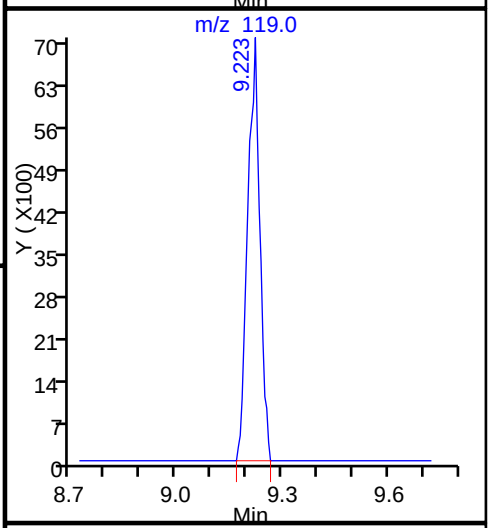
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Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

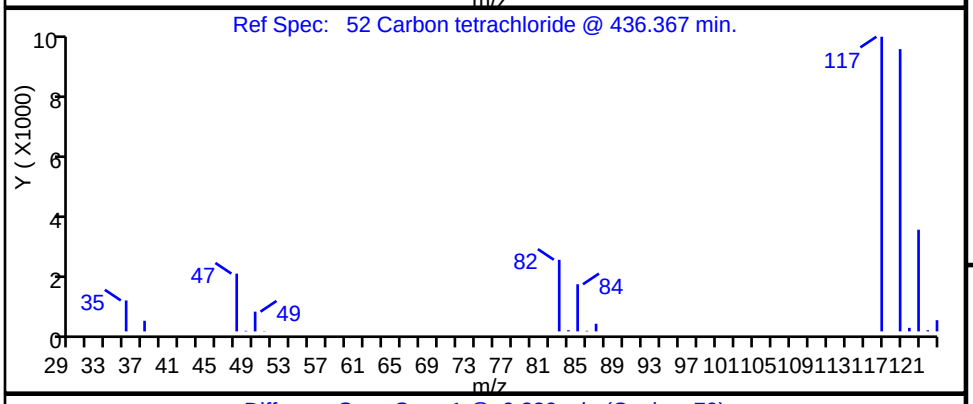
52 Carbon tetrachloride, CAS: 56-23-5

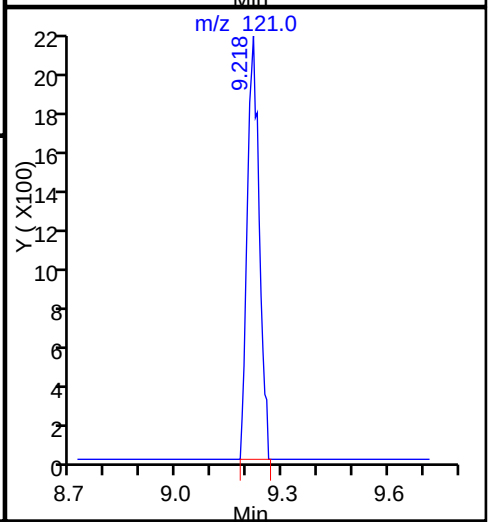


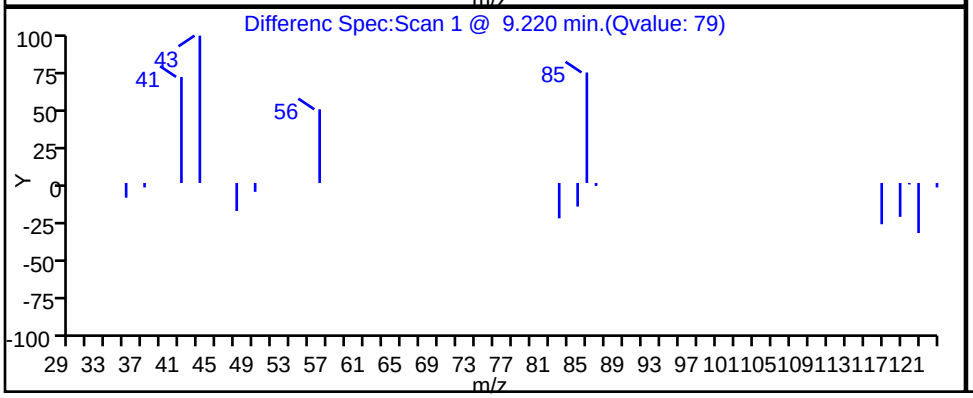








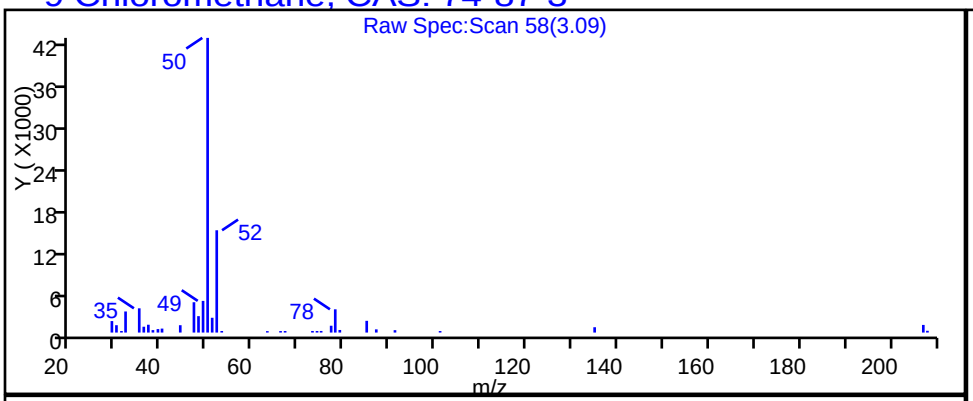


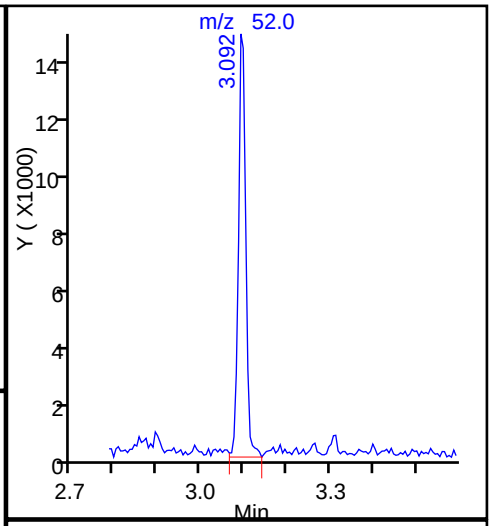


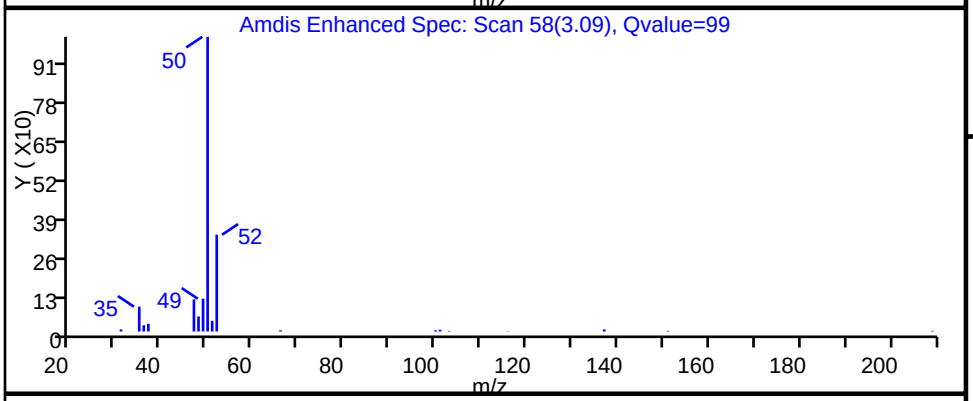
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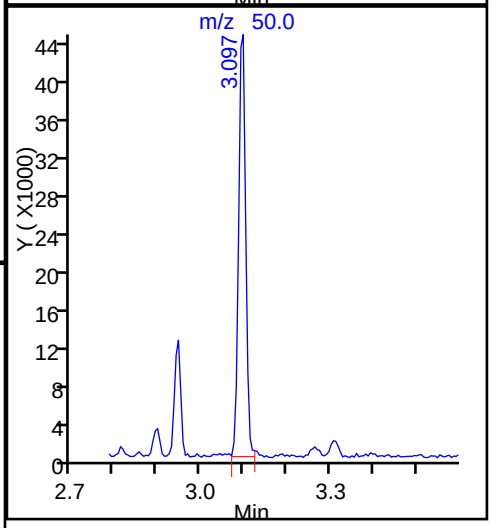
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Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

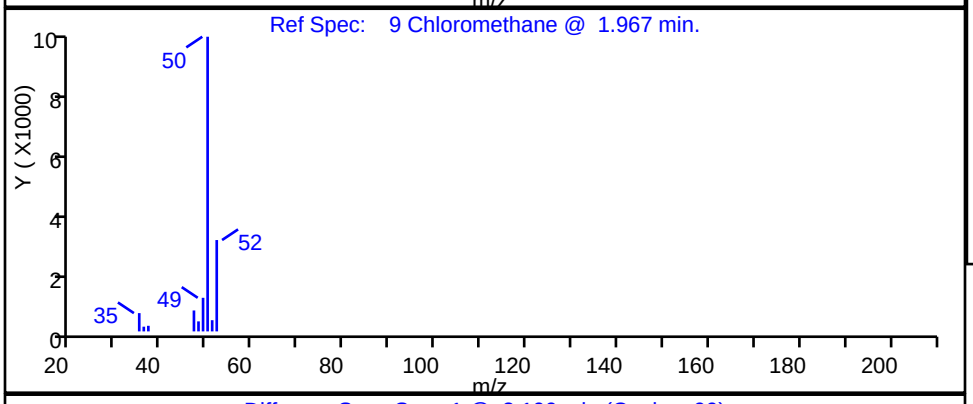
9 Chloromethane, CAS: 74-87-3

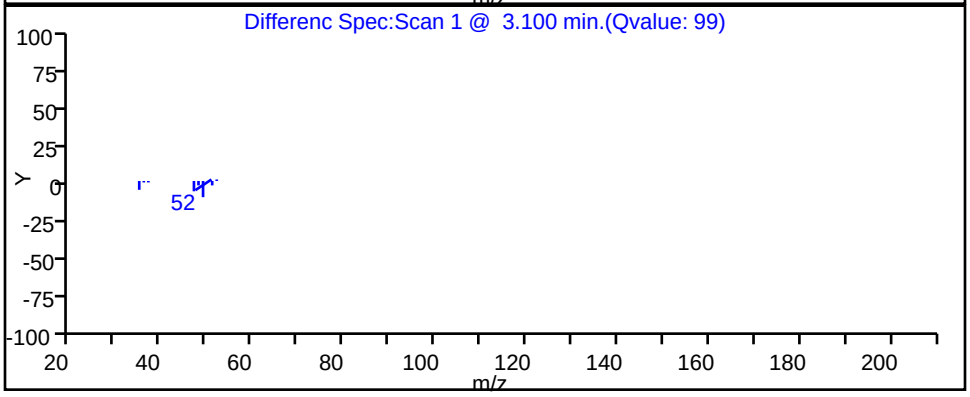








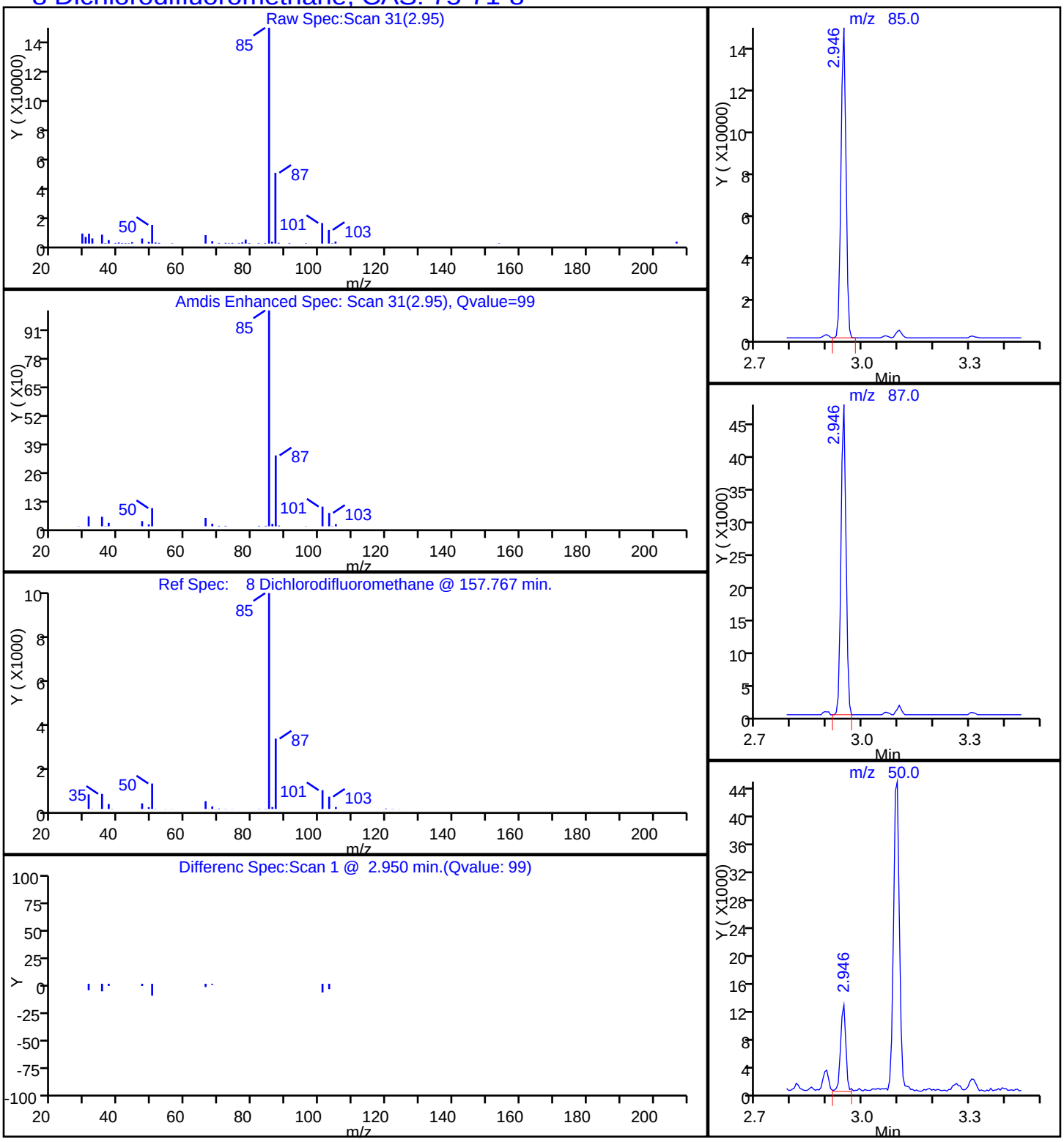




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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	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		

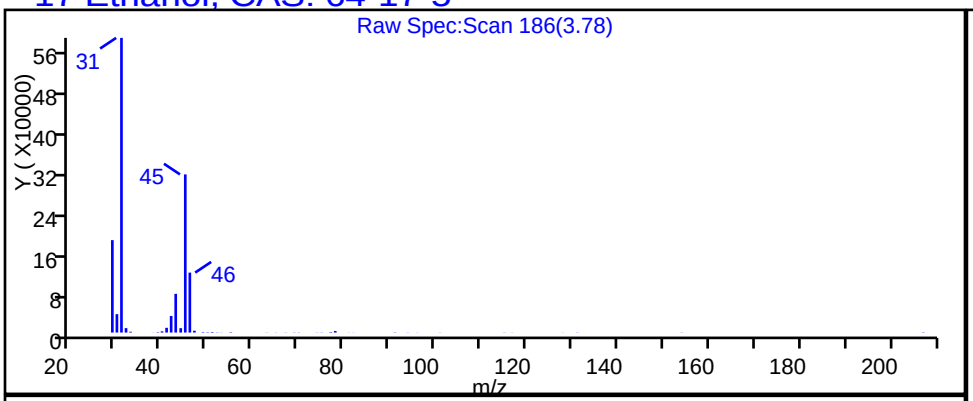
8 Dichlorodifluoromethane, CAS: 75-71-8

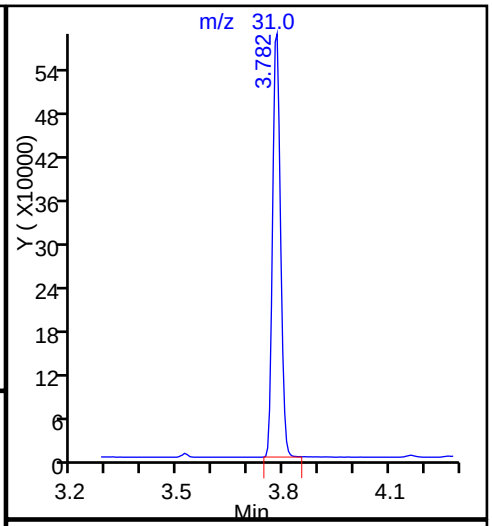


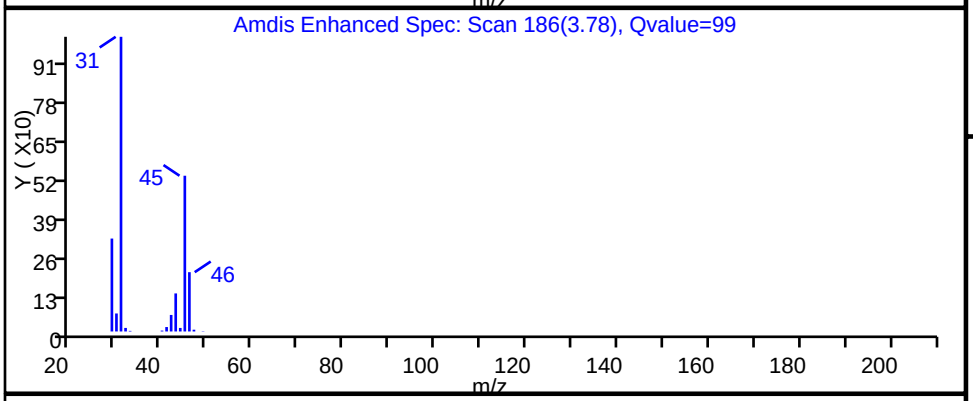
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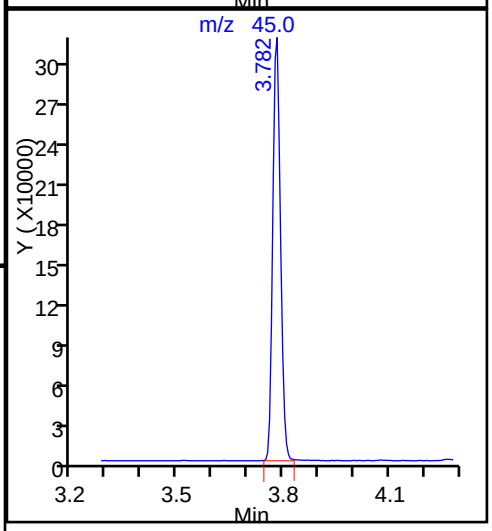
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Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

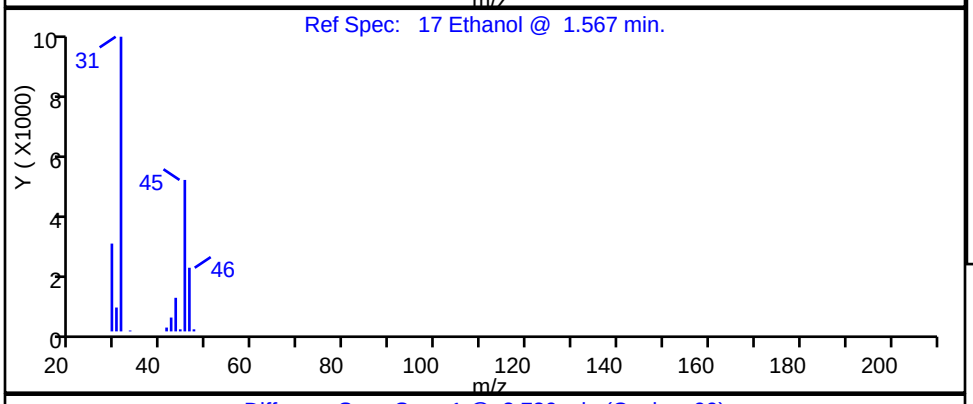
17 Ethanol, CAS: 64-17-5

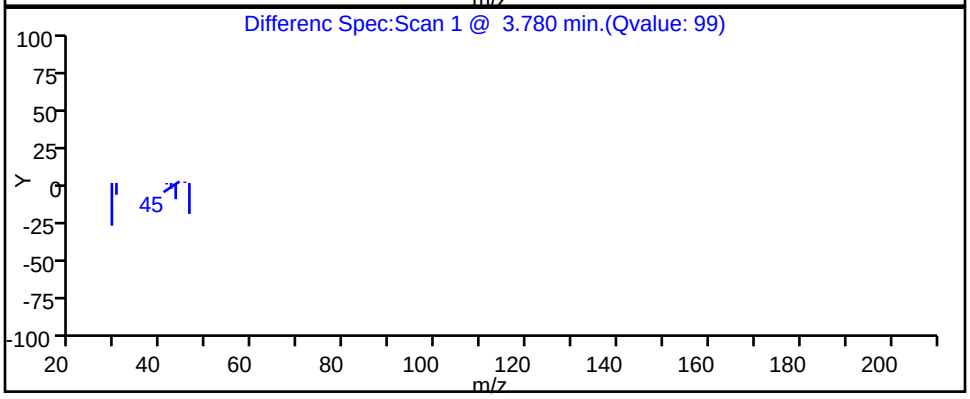






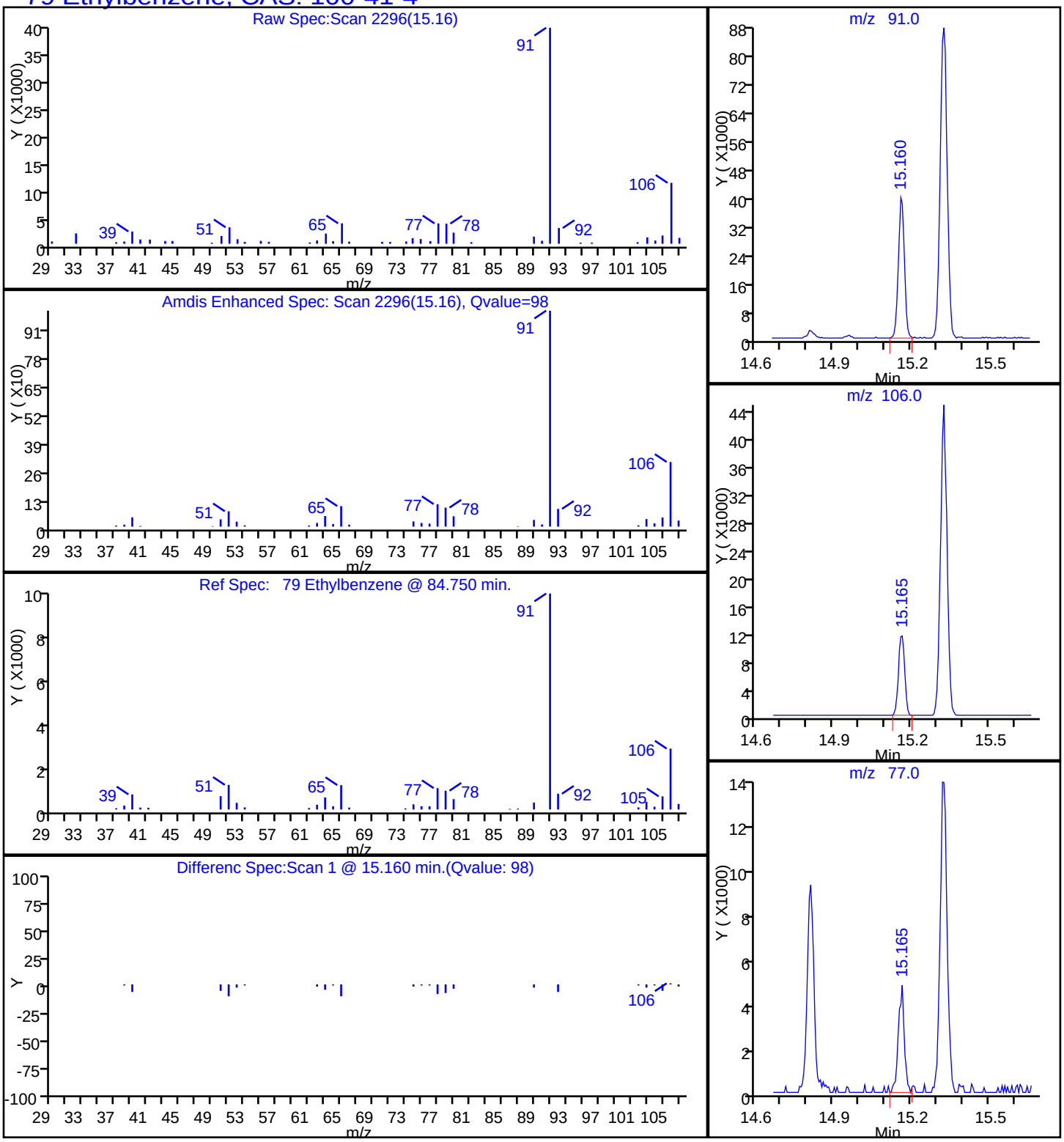






Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D
Injection Date: 01-Sep-2016 17:24:30 Instrument ID: ME
Lims ID: 140-5720-A-7 Lab Sample ID: 140-5720-7
Client ID: AA-1
Operator ID: 007126 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

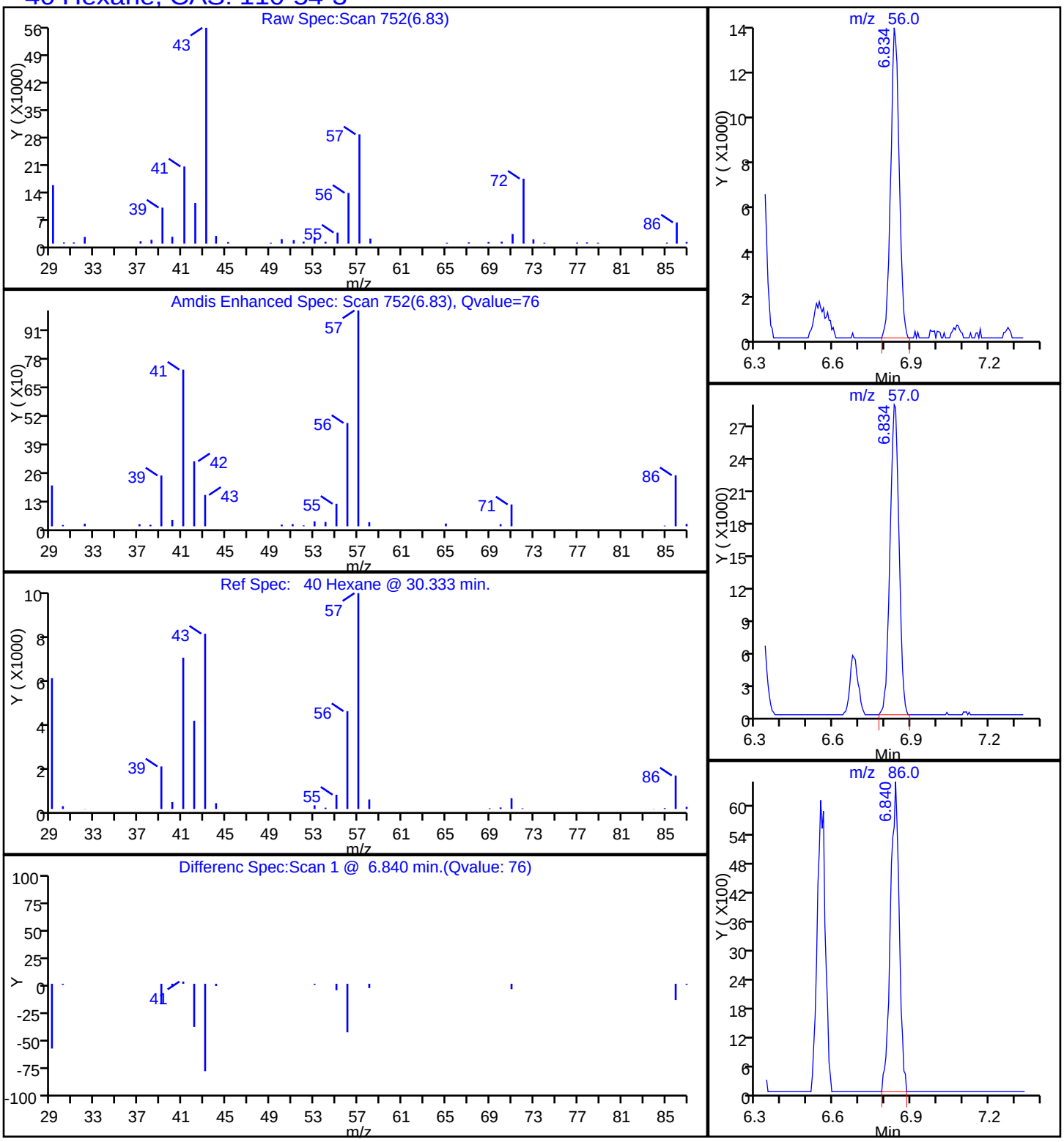
79 Ethylbenzene, CAS: 100-41-4



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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	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		

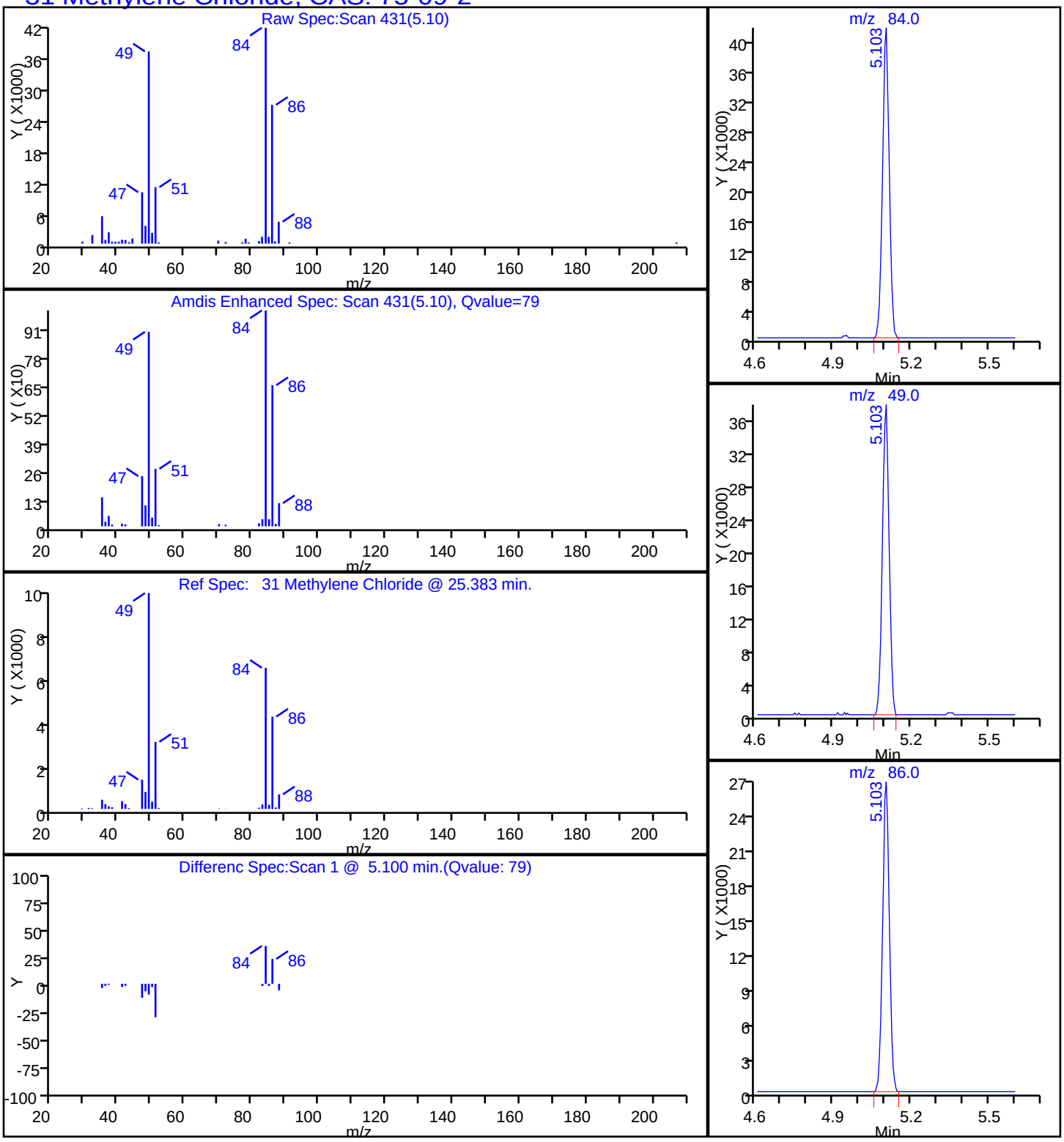
40 Hexane, CAS: 110-54-3



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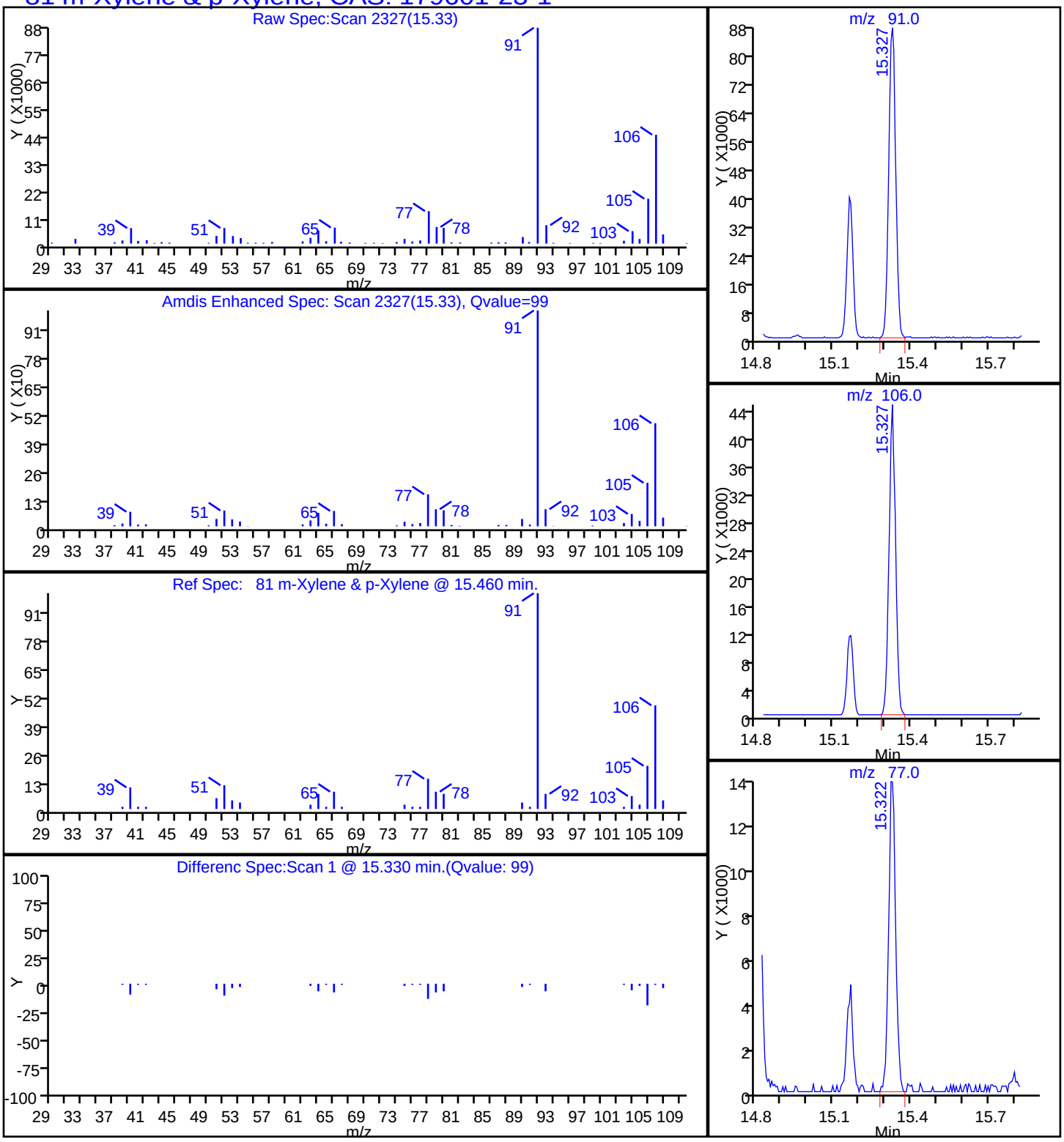
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D
Injection Date: 01-Sep-2016 17:24:30 Instrument ID: ME
Lims ID: 140-5720-A-7 Lab Sample ID: 140-5720-7
Client ID: AA-1
Operator ID: 007126 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

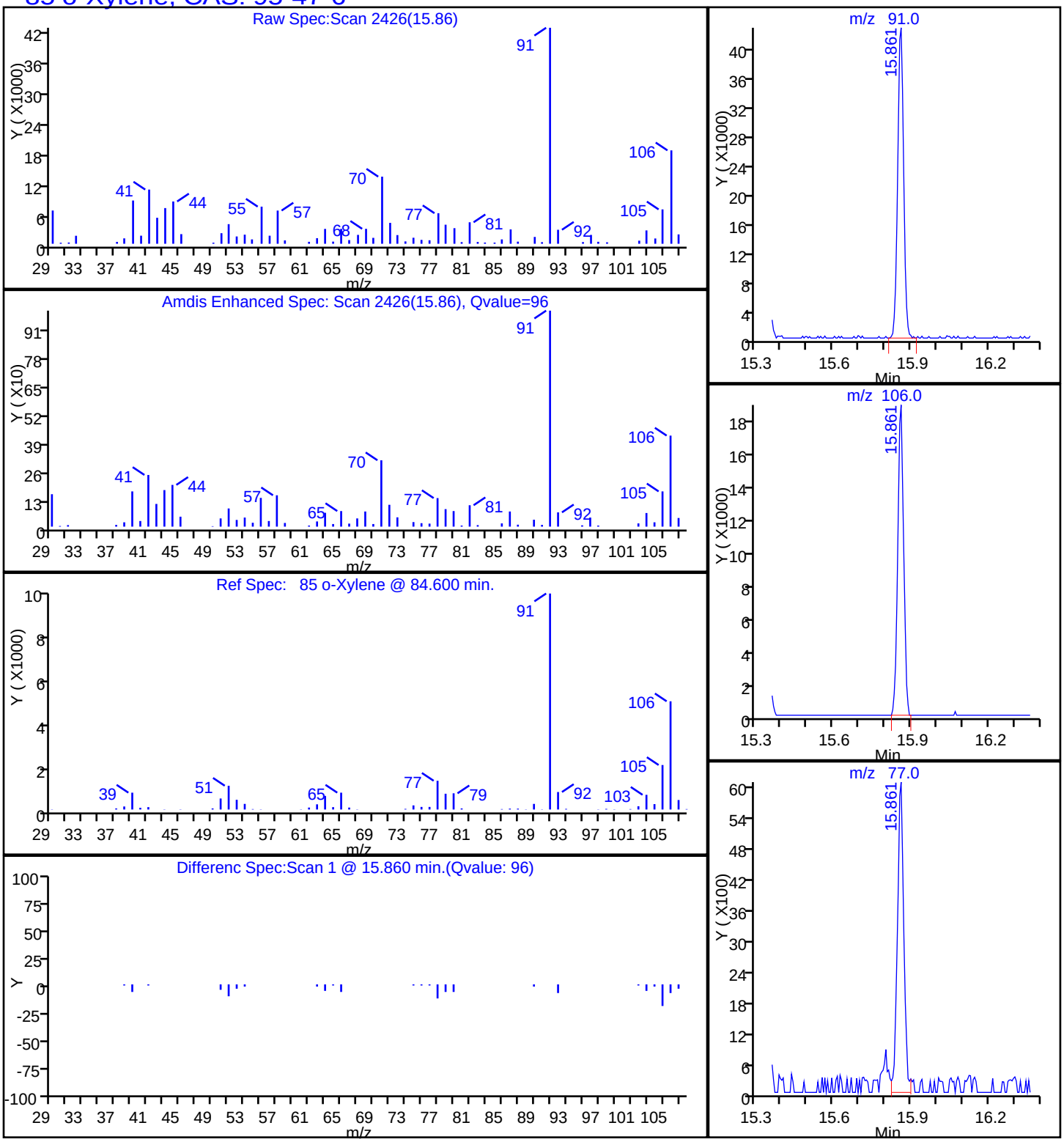
81 m-Xylene & p-Xylene, CAS: 179601-23-1



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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	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		

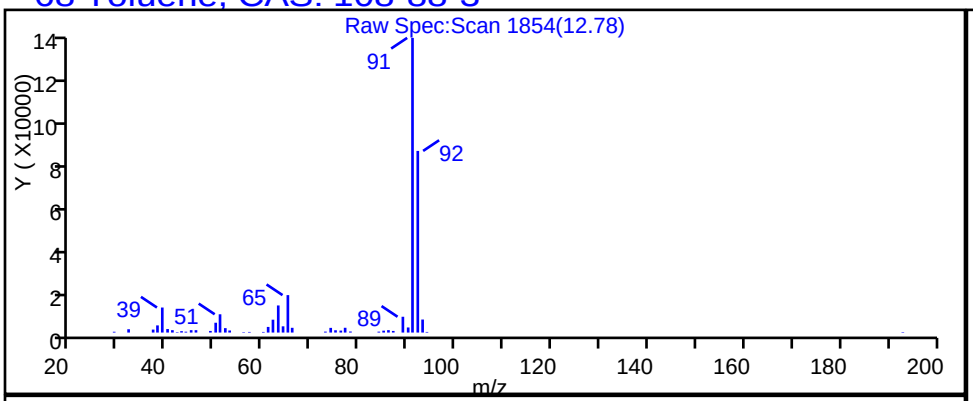
85 o-Xylene, CAS: 95-47-6

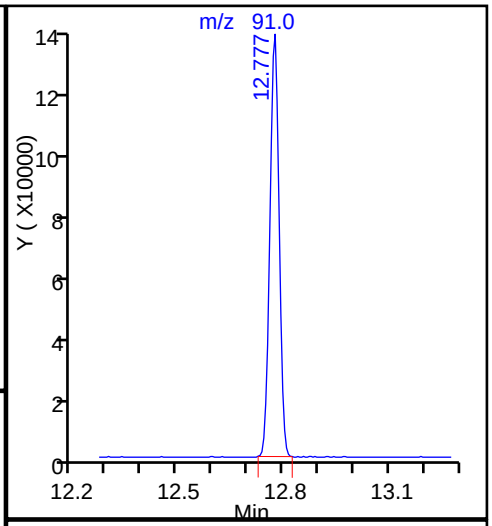


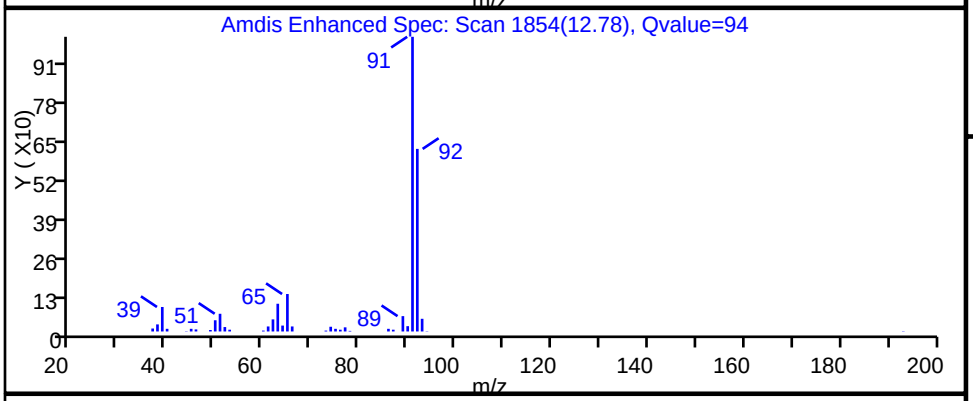
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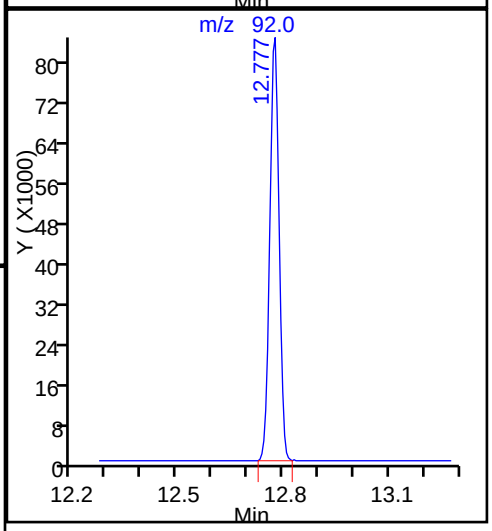
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

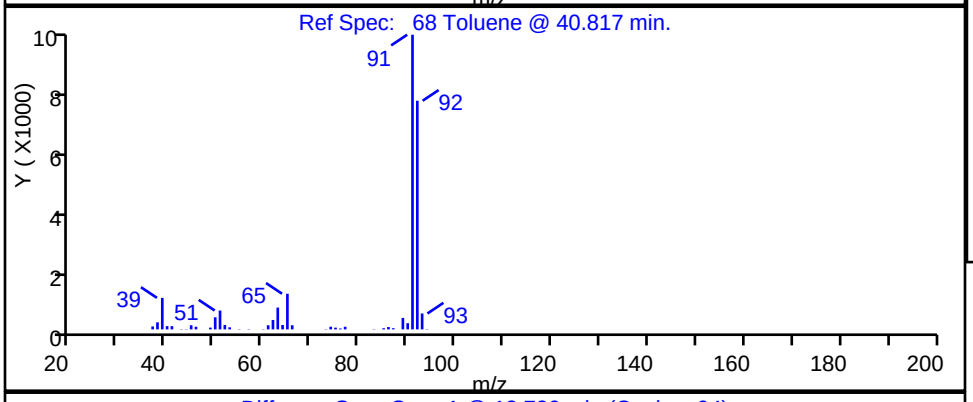
68 Toluene, CAS: 108-88-3

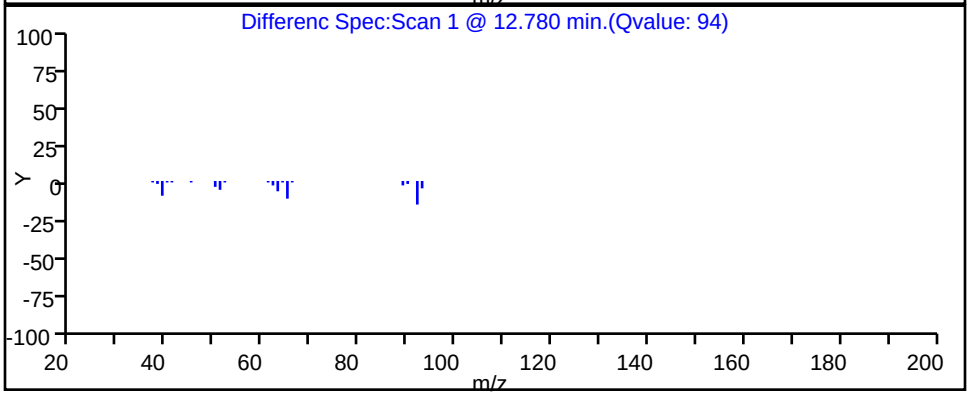








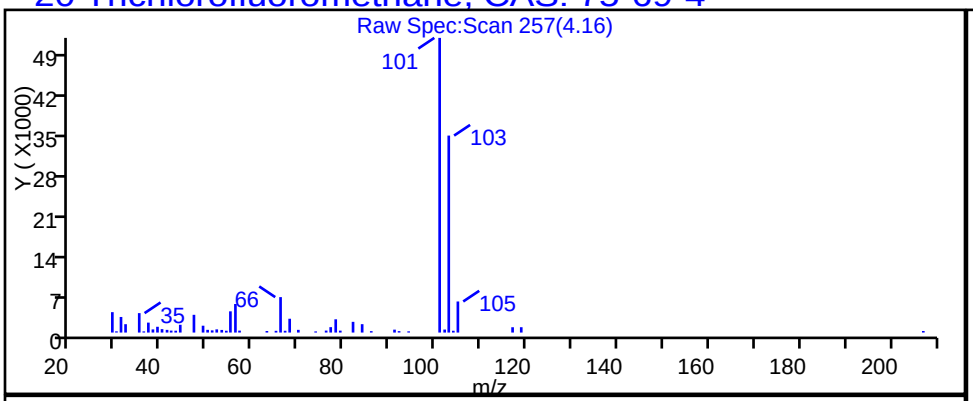


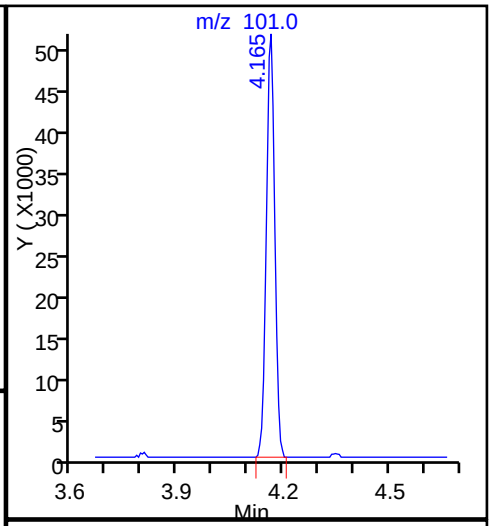


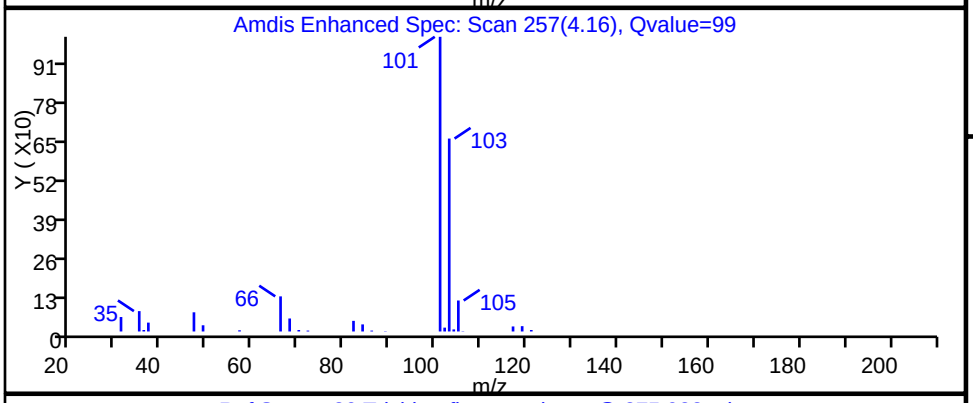
TestAmerica Knoxville

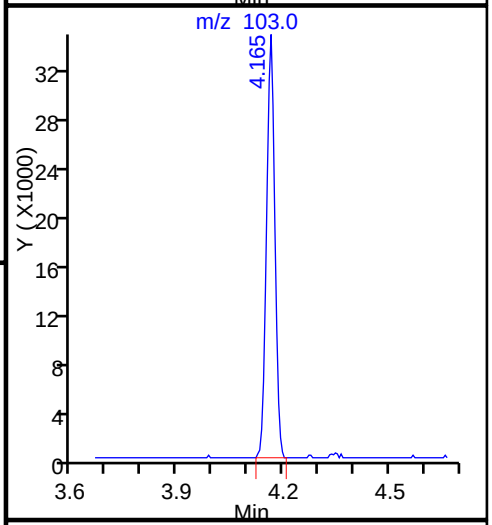
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P108.D				
Injection Date:	01-Sep-2016 17:24:30	Instrument ID:	ME		
Lims ID:	140-5720-A-7	Lab Sample ID:	140-5720-7		
Client ID:	AA-1				
Operator ID:	007126	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

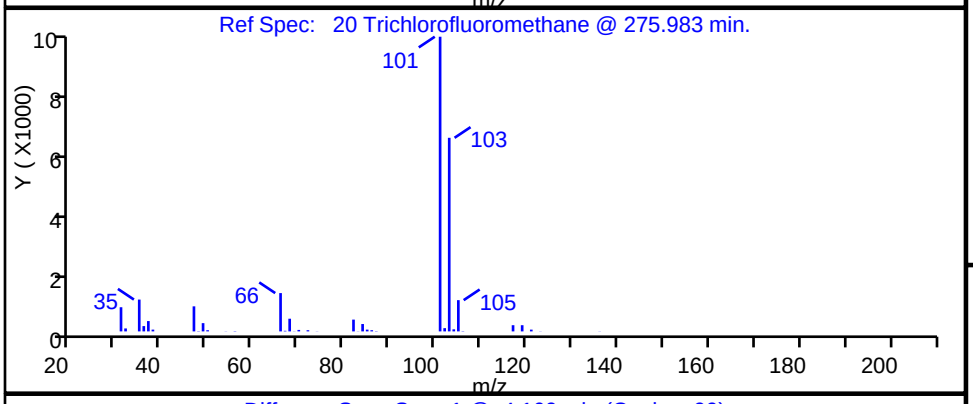
20 Trichlorofluoromethane, CAS: 75-69-4

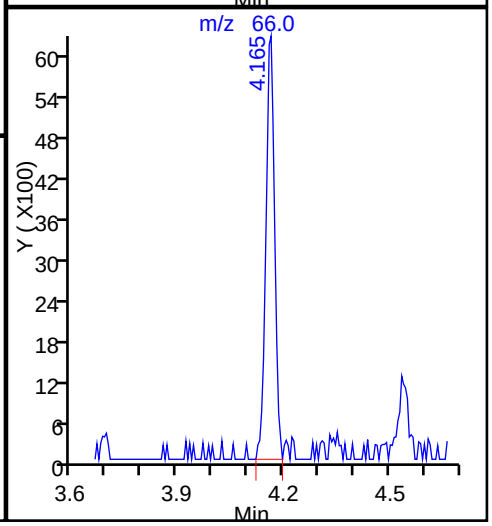


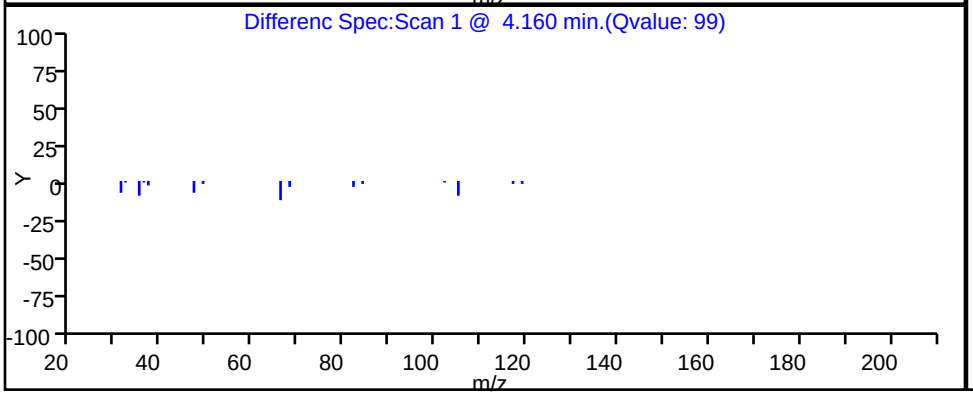












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 | Lab Sample ID: 140-5720-8

Matrix: Air | Lab File ID: EI01P109.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: | Dilution Factor: 14.16

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.1	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		1.1	
75-34-3	1,1-Dichloroethane	98.96	ND		1.1	
75-35-4	1,1-Dichloroethene	96.94	ND		1.1	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.1	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		1.1	
106-93-4	1,2-Dibromoethane	187.87	ND		1.1	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.1	
107-06-2	1,2-Dichloroethane	98.96	ND		1.1	
78-87-5	1,2-Dichloropropane	112.99	ND		1.1	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		1.1	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		1.1	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.1	
106-46-7	1,4-Dichlorobenzene	147.00	4.7		1.1	
123-91-1	1,4-Dioxane	88.11	ND		2.8	
540-84-1	2,2,4-Trimethylpentane	114.23	13		2.8	
78-93-3	2-Butanone	72.11	10		4.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.8	
71-43-2	Benzene	78.11	17		1.1	
100-44-7	Benzyl chloride	126.58	ND		2.3	
75-27-4	Bromodichloromethane	163.83	ND		1.1	
75-25-2	Bromoform	252.75	ND		1.1	
74-83-9	Bromomethane	94.94	ND		1.1	
56-23-5	Carbon tetrachloride	153.81	ND		0.57	
108-90-7	Chlorobenzene	112.56	ND		1.1	
75-00-3	Chloroethane	64.52	ND		1.1	
67-66-3	Chloroform	119.38	ND		1.1	
74-87-3	Chloromethane	50.49	ND		2.8	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.1	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.1	
110-82-7	Cyclohexane	84.16	13		2.8	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 Lab Sample ID: 140-5720-8

Matrix: Air Lab File ID: EI01P109.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: Dilution Factor: 14.16

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		1.1	
75-71-8	Dichlorodifluoromethane	120.91	ND		1.1	
64-17-5	Ethanol	46.07	ND		28	
100-41-4	Ethylbenzene	106.17	1.1		1.1	
87-68-3	Hexachlorobutadiene	260.76	ND		1.1	
110-54-3	Hexane	86.17	15		2.8	
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.3	
75-09-2	Methylene Chloride	84.93	ND		2.8	
179601-23-1	m-Xylene & p-Xylene	106.17	4.3		1.1	
95-47-6	o-Xylene	106.17	1.8		1.1	
100-42-5	Styrene	104.15	ND		1.1	
75-65-0	t-Butyl alcohol	74.12	ND		4.5	
127-18-4	Tetrachloroethene	165.83	ND		1.1	
108-88-3	Toluene	92.14	5.0		1.7	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.1	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.1	
79-01-6	Trichloroethene	131.39	ND		0.57	
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	
75-01-4	Vinyl chloride	62.50	ND		0.57	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 | Lab Sample ID: 140-5720-8

Matrix: Air | Lab File ID: EI01P109.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: | Dilution Factor: 14.16

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		6.2	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		7.8	
79-00-5	1,1,2-Trichloroethane	133.41	ND		6.2	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		8.7	
75-34-3	1,1-Dichloroethane	98.96	ND		4.6	
75-35-4	1,1-Dichloroethene	96.94	ND		4.5	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		8.4	
95-63-6	1,2,4-Trimethylbenzene	120.20	8.2		5.6	
106-93-4	1,2-Dibromoethane	187.87	ND		8.7	
95-50-1	1,2-Dichlorobenzene	147.00	ND		6.8	
107-06-2	1,2-Dichloroethane	98.96	ND		4.6	
78-87-5	1,2-Dichloropropane	112.99	ND		5.2	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		7.9	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		5.6	
541-73-1	1,3-Dichlorobenzene	147.00	ND		6.8	
106-46-7	1,4-Dichlorobenzene	147.00	28		6.8	
123-91-1	1,4-Dioxane	88.11	ND		10	
540-84-1	2,2,4-Trimethylpentane	114.23	63		13	
78-93-3	2-Butanone	72.11	31		13	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		12	
71-43-2	Benzene	78.11	53		3.6	
100-44-7	Benzyl chloride	126.58	ND		12	
75-27-4	Bromodichloromethane	163.83	ND		7.6	
75-25-2	Bromoform	252.75	ND		12	
74-83-9	Bromomethane	94.94	ND		4.4	
56-23-5	Carbon tetrachloride	153.81	ND		3.6	
108-90-7	Chlorobenzene	112.56	ND		5.2	
75-00-3	Chloroethane	64.52	ND		3.0	
67-66-3	Chloroform	119.38	ND		5.5	
74-87-3	Chloromethane	50.49	ND		5.8	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		4.5	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		5.1	
110-82-7	Cyclohexane	84.16	46		9.7	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 Lab Sample ID: 140-5720-8

Matrix: Air Lab File ID: EI01P109.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: Dilution Factor: 14.16

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		9.7	
75-71-8	Dichlorodifluoromethane	120.91	ND		5.6	
64-17-5	Ethanol	46.07	ND		53	
100-41-4	Ethylbenzene	106.17	4.9		4.9	
87-68-3	Hexachlorobutadiene	260.76	ND		12	
110-54-3	Hexane	86.17	54		10	
1634-04-4	Methyl tert-butyl ether	88.15	ND		8.2	
75-09-2	Methylene Chloride	84.93	ND		9.8	
179601-23-1	m-Xylene & p-Xylene	106.17	19		4.9	
95-47-6	o-Xylene	106.17	7.8		4.9	
100-42-5	Styrene	104.15	ND		4.8	
75-65-0	t-Butyl alcohol	74.12	ND		14	
127-18-4	Tetrachloroethene	165.83	ND		7.7	
108-88-3	Toluene	92.14	19		6.4	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4.5	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		5.1	
79-01-6	Trichloroethene	131.39	ND		3.0	
75-69-4	Trichlorofluoromethane	137.37	ND		6.4	
75-01-4	Vinyl chloride	62.50	ND		1.4	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D				
Lims ID:	140-5720-A-8				
Client ID:	SG-217				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 18:12:30	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600		
Sample Info:	140-0003369-012				
Misc. Info.:	140-5720-a-8@14.16				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 19:19:10	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				
First Level Reviewer: barlozhetskayaa		Date:	01-Sep-2016 19:19:09		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.562	7.568	-0.006	73	248124	4.00	
* 2 1,4-Difluorobenzene	114	9.805	9.811	-0.006	94	1164312	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1134381	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	87	955658	4.12	
17 Ethanol	31	3.771	3.777	-0.006	98	14558	0.8275	
20 Trichlorofluoromethane	101	4.165	4.165	0.000	95	3055	0.0121	
28 2-Methyl-2-propanol	59	4.882	4.877	0.005	92	21513	0.2094	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.942	0.005	94	2657	0.0163	
31 Methylene Chloride	84	5.103	5.103	0.000	79	14900	0.1914	
39 2-Butanone (MEK)	72	6.829	6.834	-0.005	99	26777	0.7406	
40 Hexane	56	6.845	6.840	0.005	91	52415	1.08	
50 Cyclohexane	69	9.196	9.196	0.000	57	37128	0.9410	
51 Benzene	78	9.196	9.202	-0.006	95	280338	1.17	
56 Isooctane	57	10.037	10.037	0.000	93	262775	0.9475	
68 Toluene	91	12.777	12.777	0.000	93	95674	0.3516	
76 Tetrachloroethene	129	13.963	13.963	0.000	83	6413	0.0606	
79 Ethylbenzene	91	15.165	15.166	-0.001	98	29388	0.0805	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	87446	0.3071	
84 Styrene	104	15.802	15.802	0.000	47	5892	0.0321	
85 o-Xylene	91	15.861	15.861	0.000	97	37708	0.1262	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	91	6543	0.0378	
96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	99	37554	0.1171	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	92	62501	0.3303	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

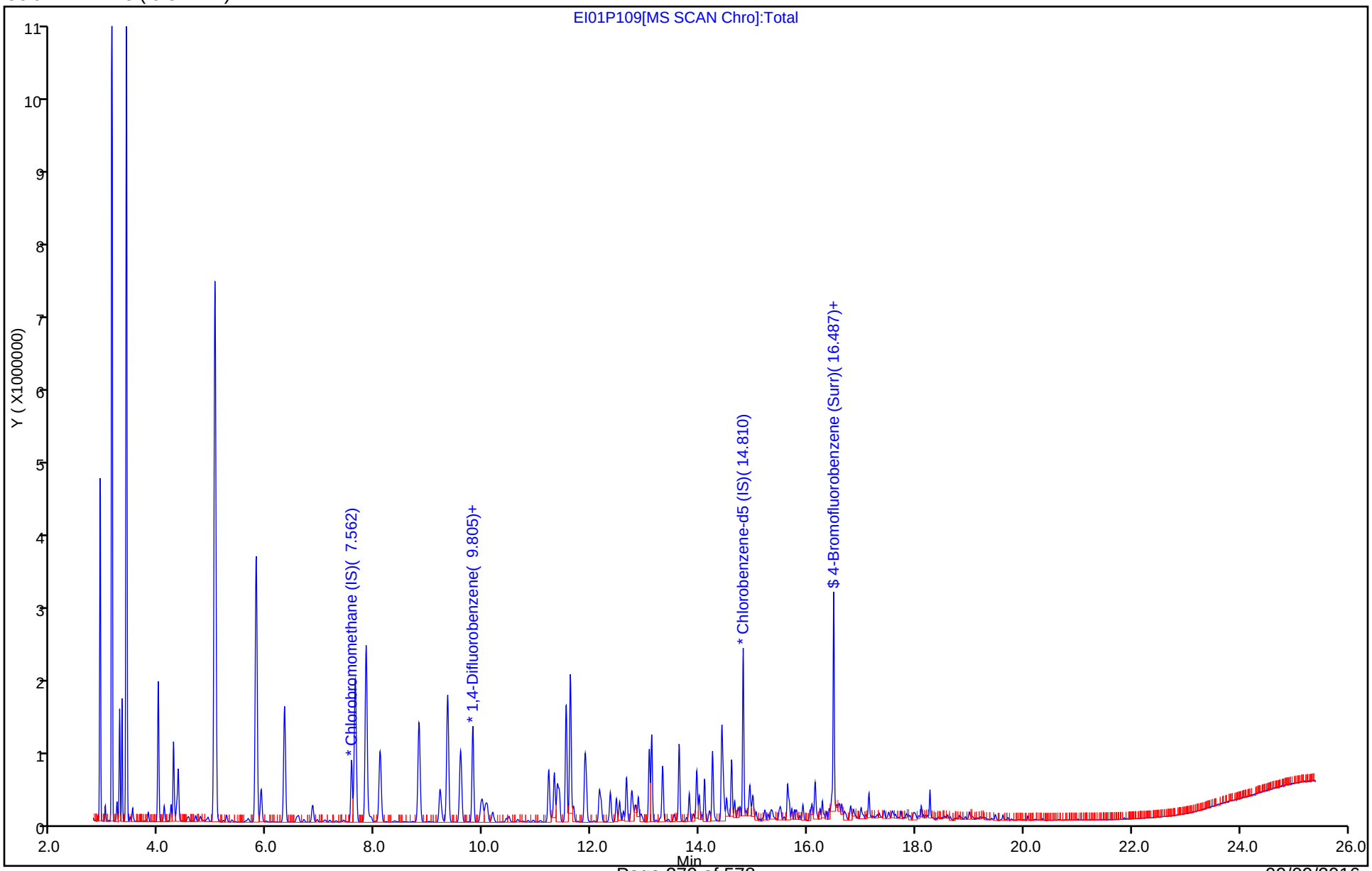
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D

Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8	Worklist Smp#:	12
Client ID:	SG-217				
Purge Vol:	500.000 mL	Dil. Factor:	14.1600	ALS Bottle#:	9
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

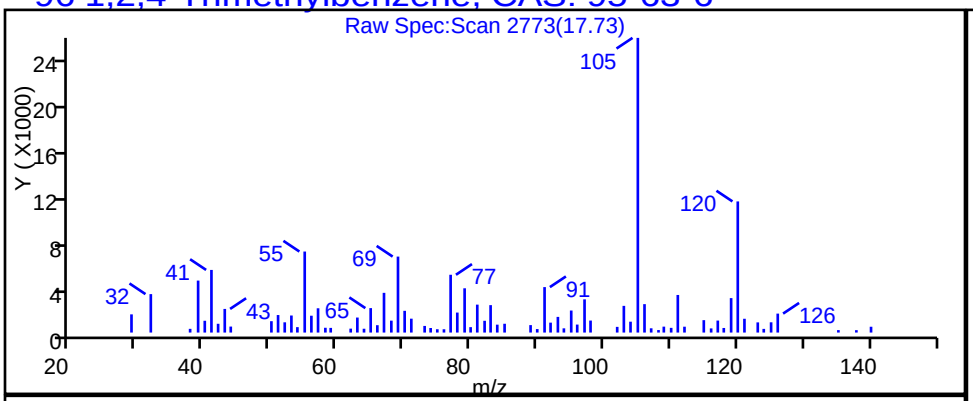
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Lims ID:	140-5720-A-8				
Client ID:	SG-217				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 18:12:30	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600		
Sample Info:	140-0003369-012				
Misc. Info.:	140-5720-a-8@14.16				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 19:19:10	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

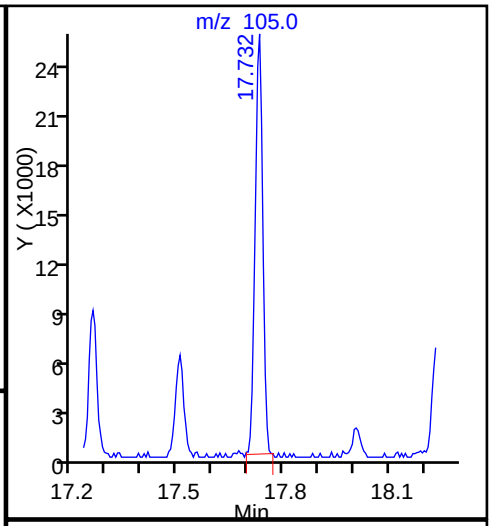
First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 19:19:09

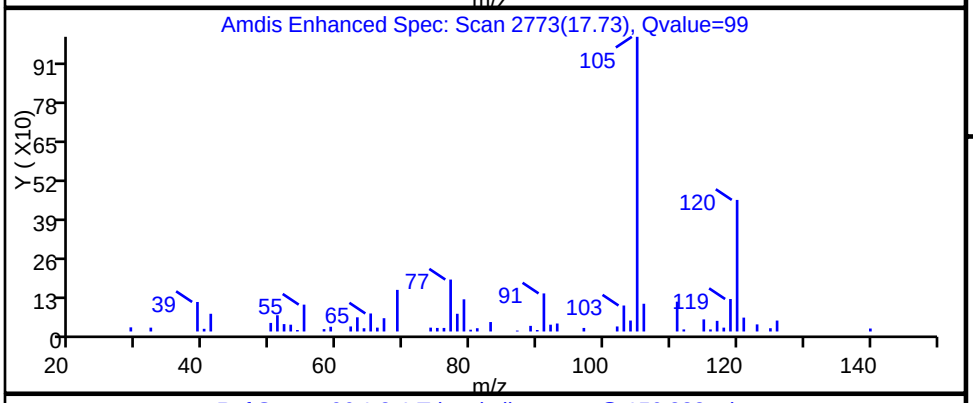
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.12	102.92

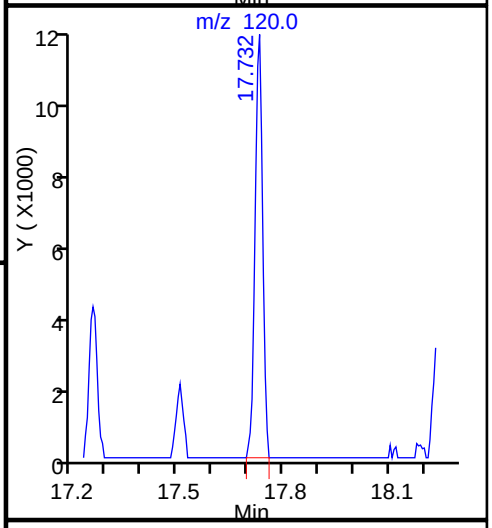
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Injection Date: 01-Sep-2016 18:12:30 Instrument ID: ME
Lims ID: 140-5720-A-8 Lab Sample ID: 140-5720-8
Client ID: SG-217
Operator ID: 007126 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 14.1600
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

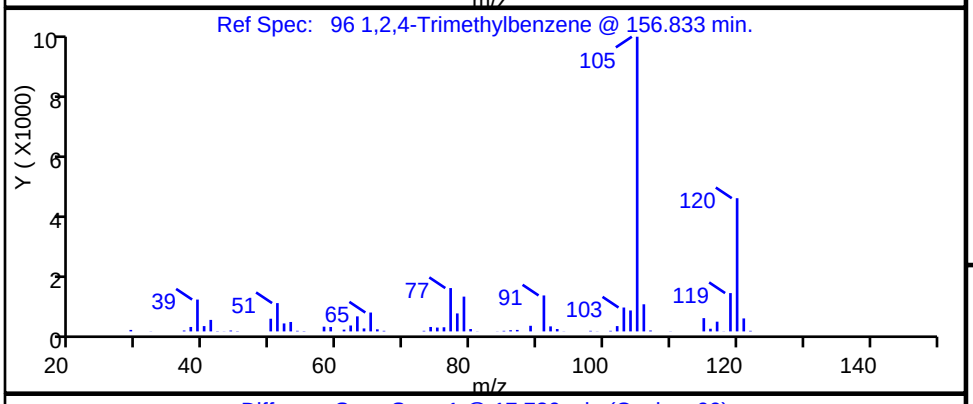
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

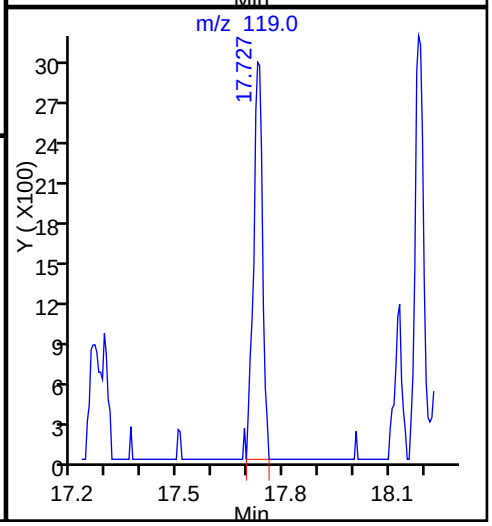


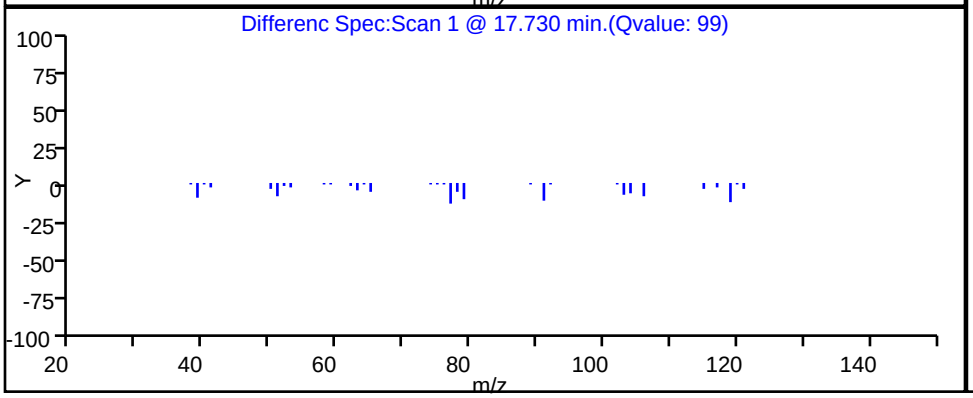








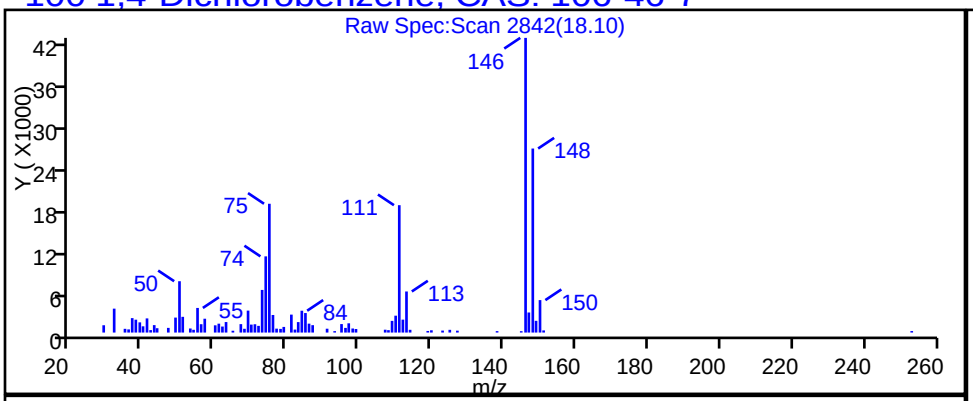


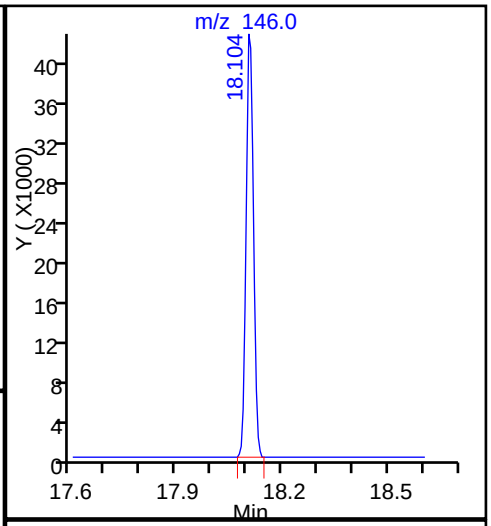


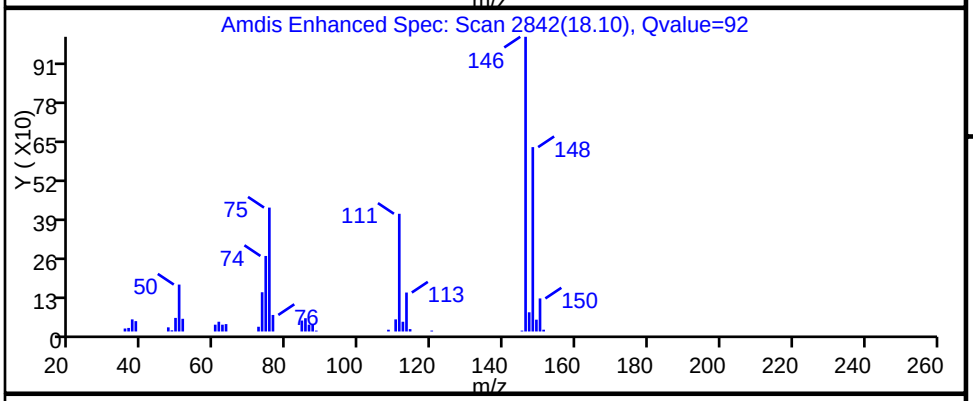
TestAmerica Knoxville

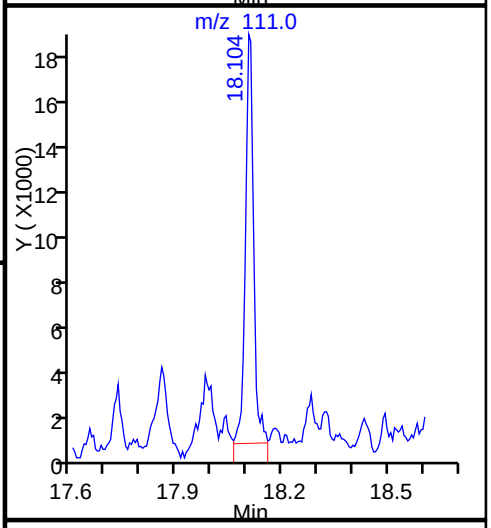
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Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8		
Client ID:	SG-217				
Operator ID:	007126	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

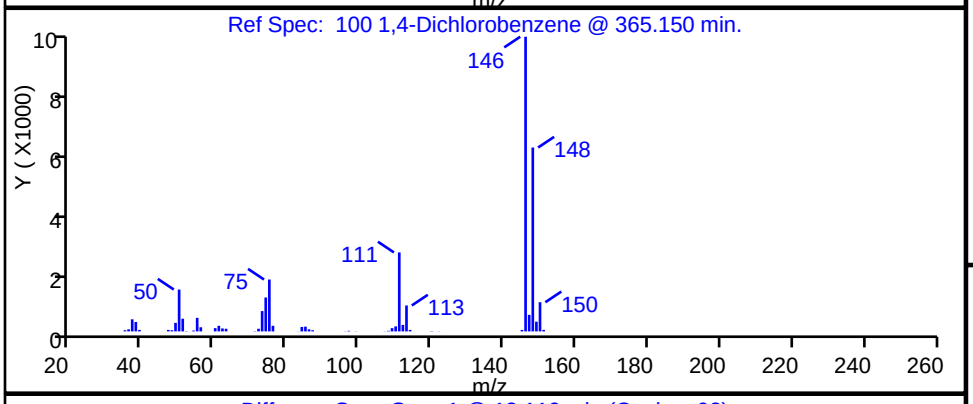
100 1,4-Dichlorobenzene, CAS: 106-46-7

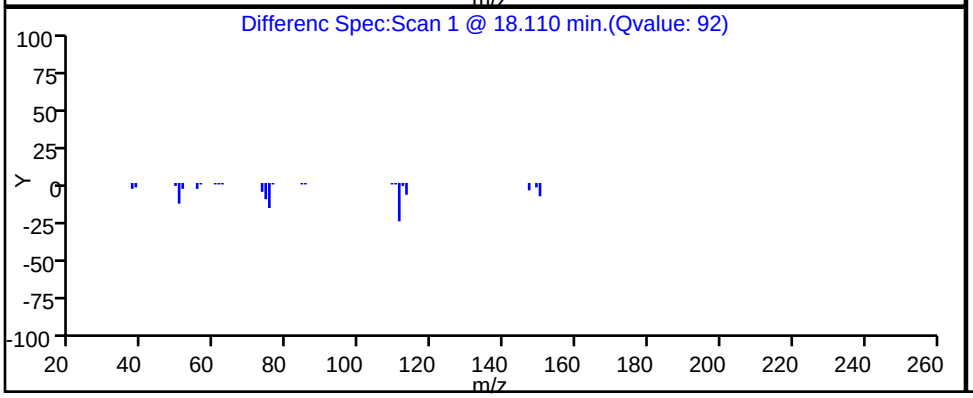


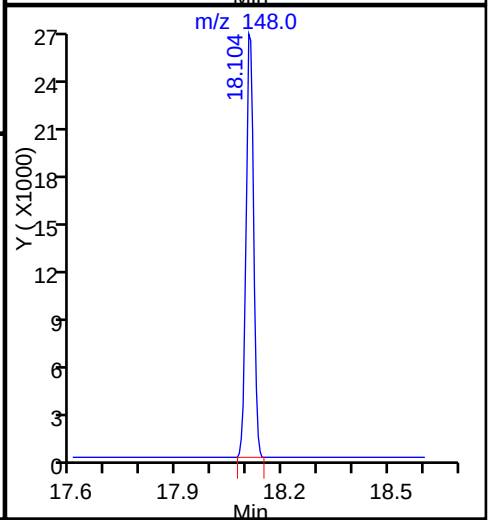








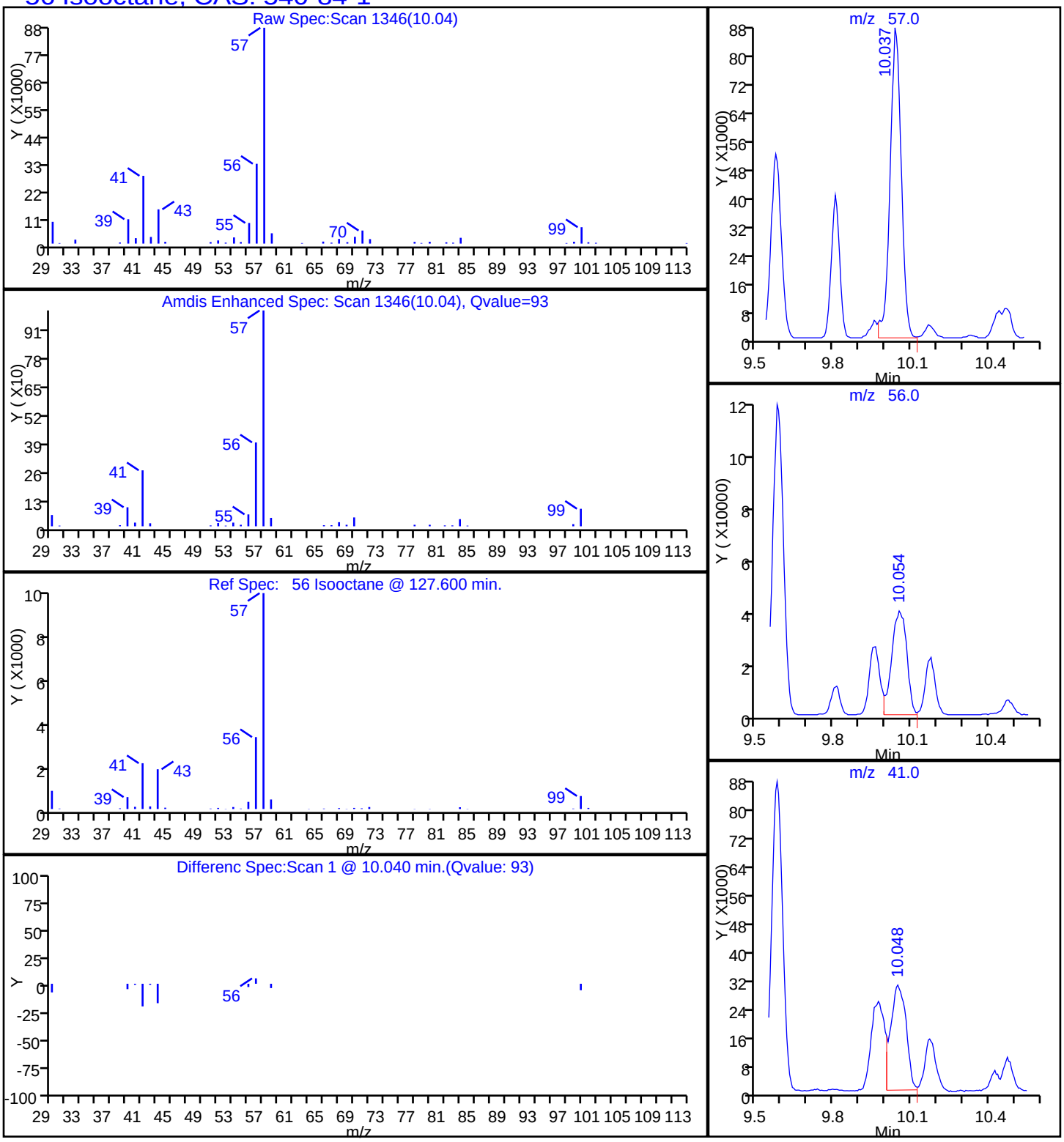




TestAmerica Knoxville

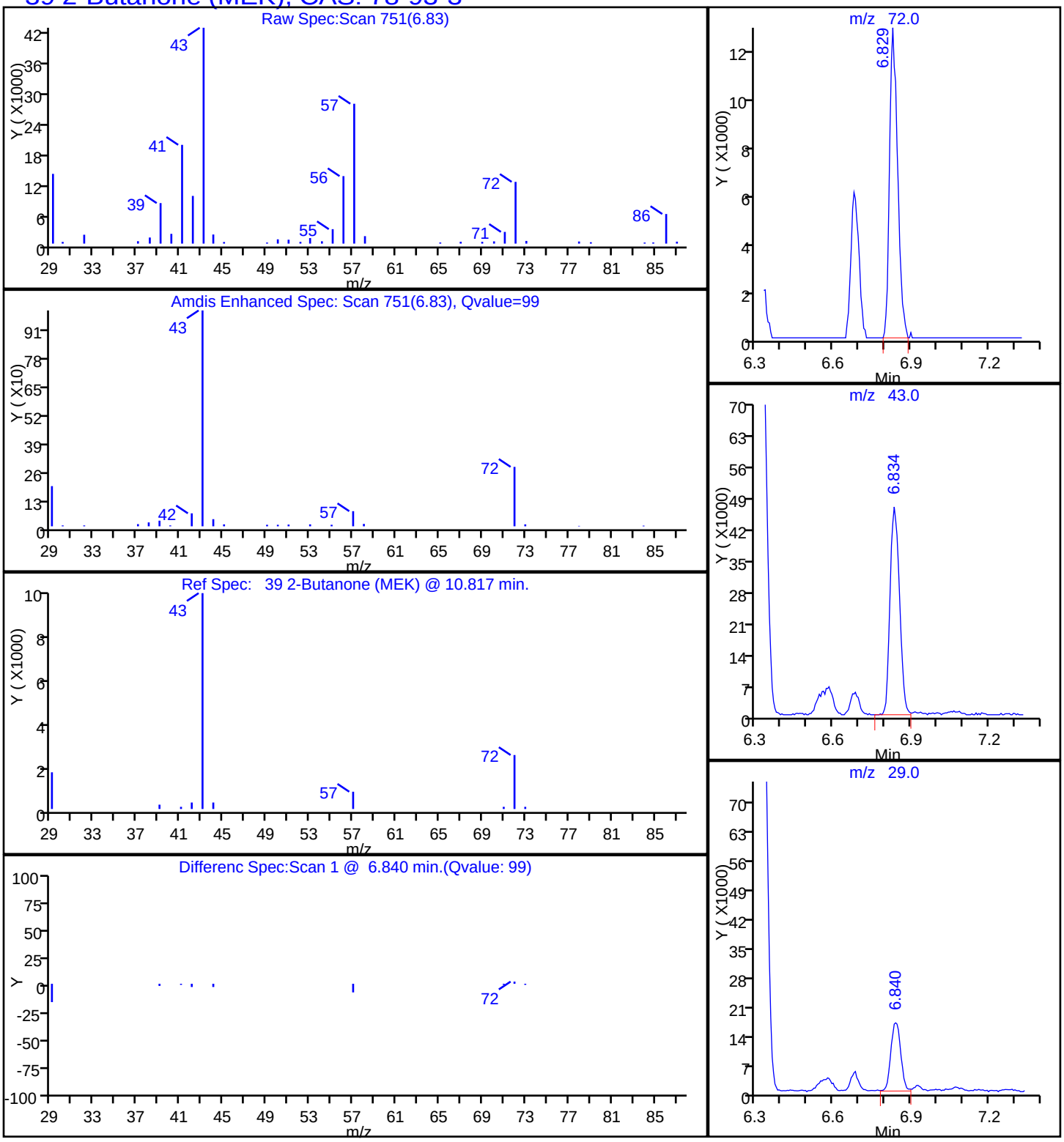
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D		
Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8
Client ID:	SG-217		
Operator ID:	007126	ALS Bottle#:	9 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

56 Isooctane, CAS: 540-84-1



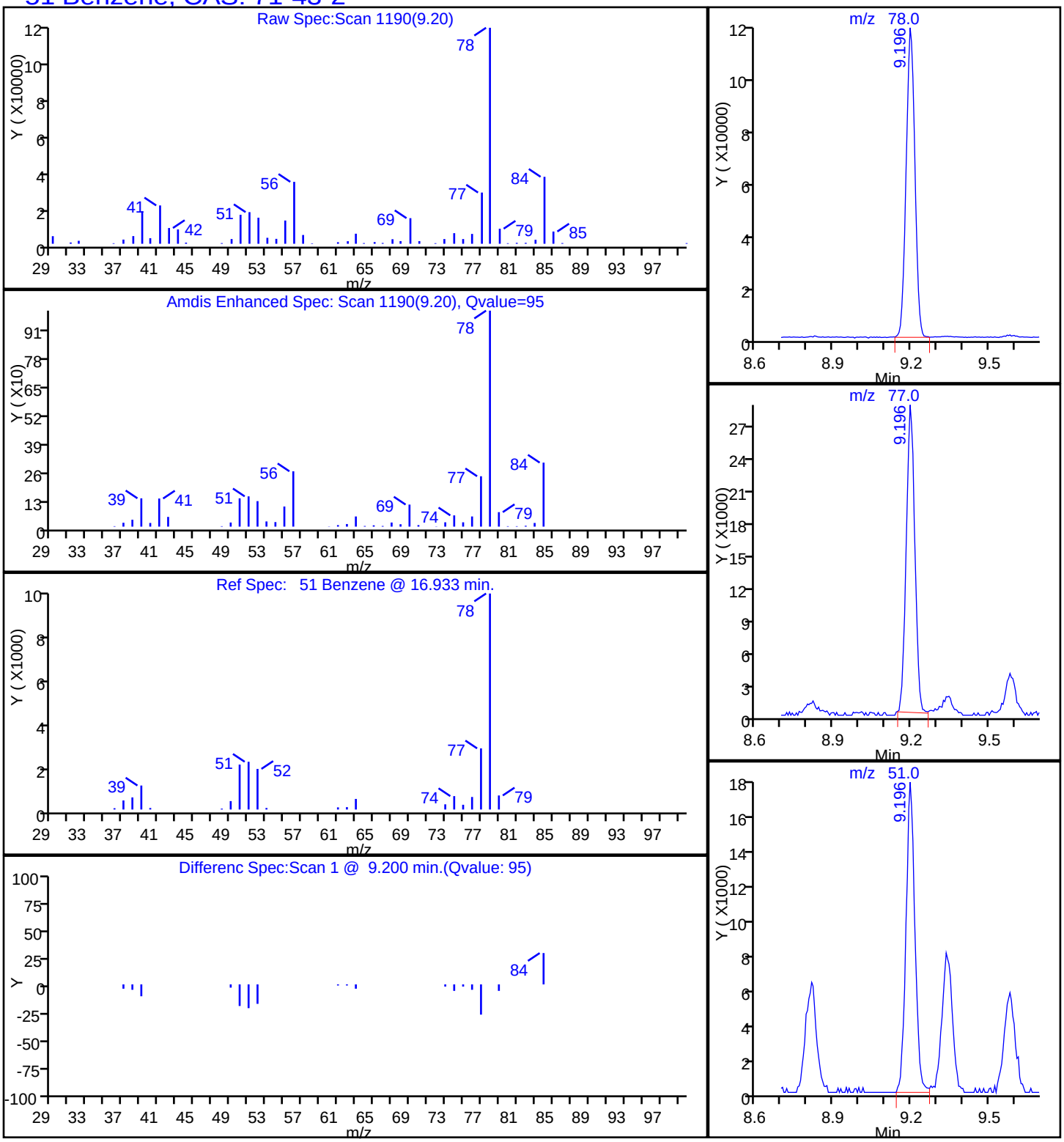
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D
Injection Date: 01-Sep-2016 18:12:30 Instrument ID: ME
Lims ID: 140-5720-A-8 Lab Sample ID: 140-5720-8
Client ID: SG-217
Operator ID: 007126 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 500.000 mL Dil. Factor: 14.1600
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D		
Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8
Client ID:	SG-217		
Operator ID:	007126	ALS Bottle#:	9 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

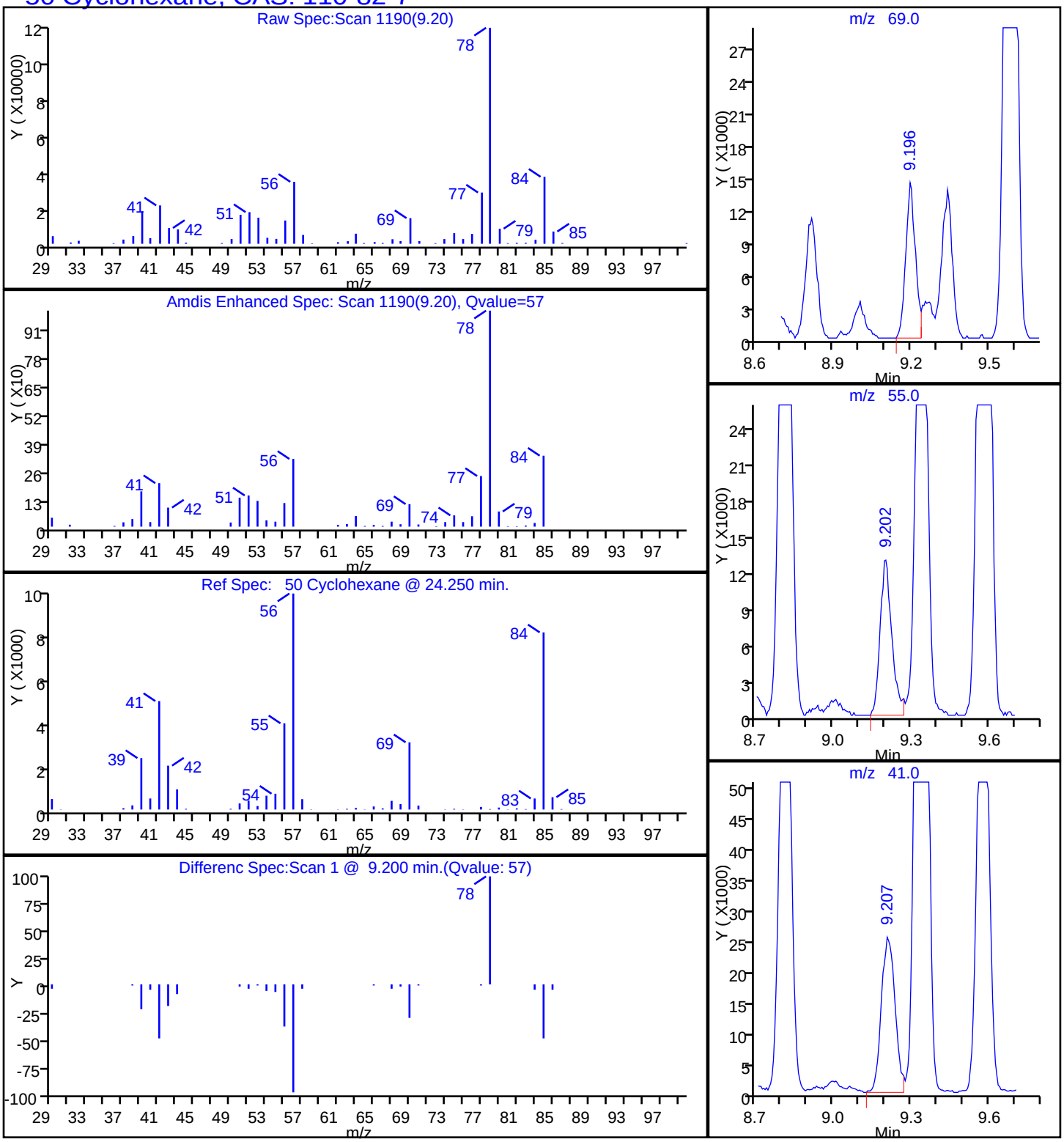
51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D		
Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8
Client ID:	SG-217		
Operator ID:	007126	ALS Bottle#:	9 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

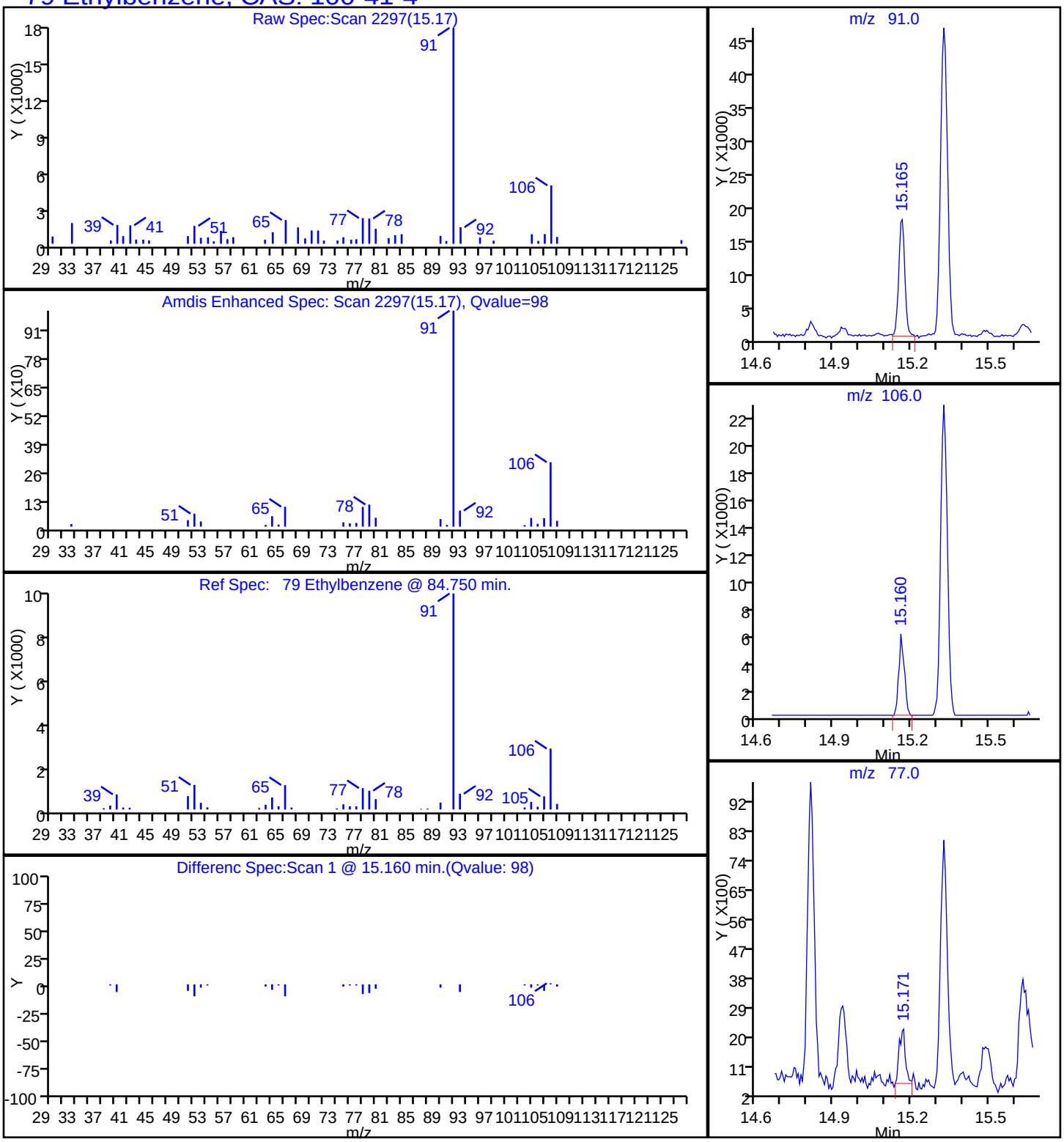
50 Cyclohexane, CAS: 110-82-7



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D

Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8		
Client ID:	SG-217				
Operator ID:	007126	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

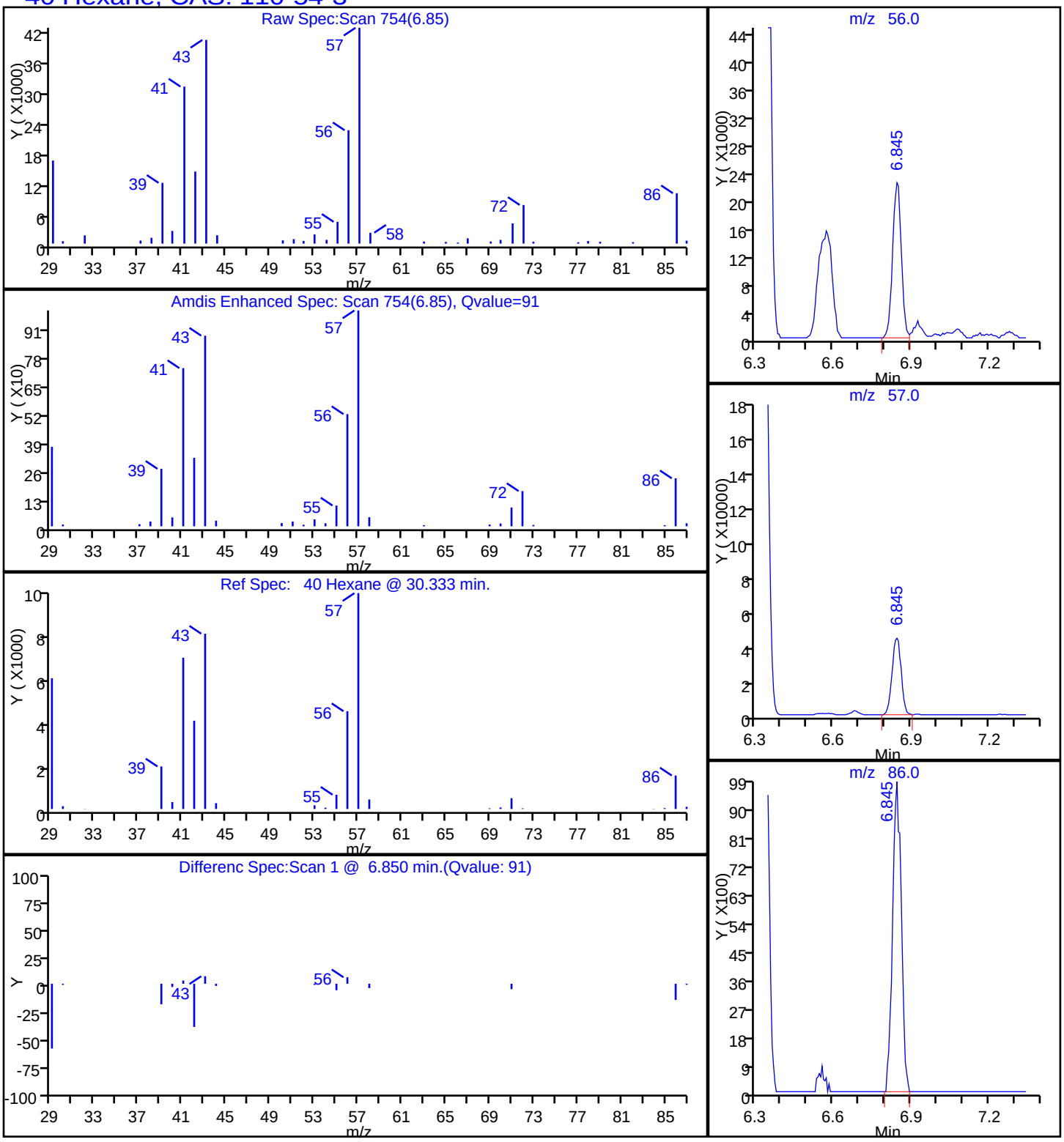
79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D		
Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8
Client ID:	SG-217		
Operator ID:	007126	ALS Bottle#:	9 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3

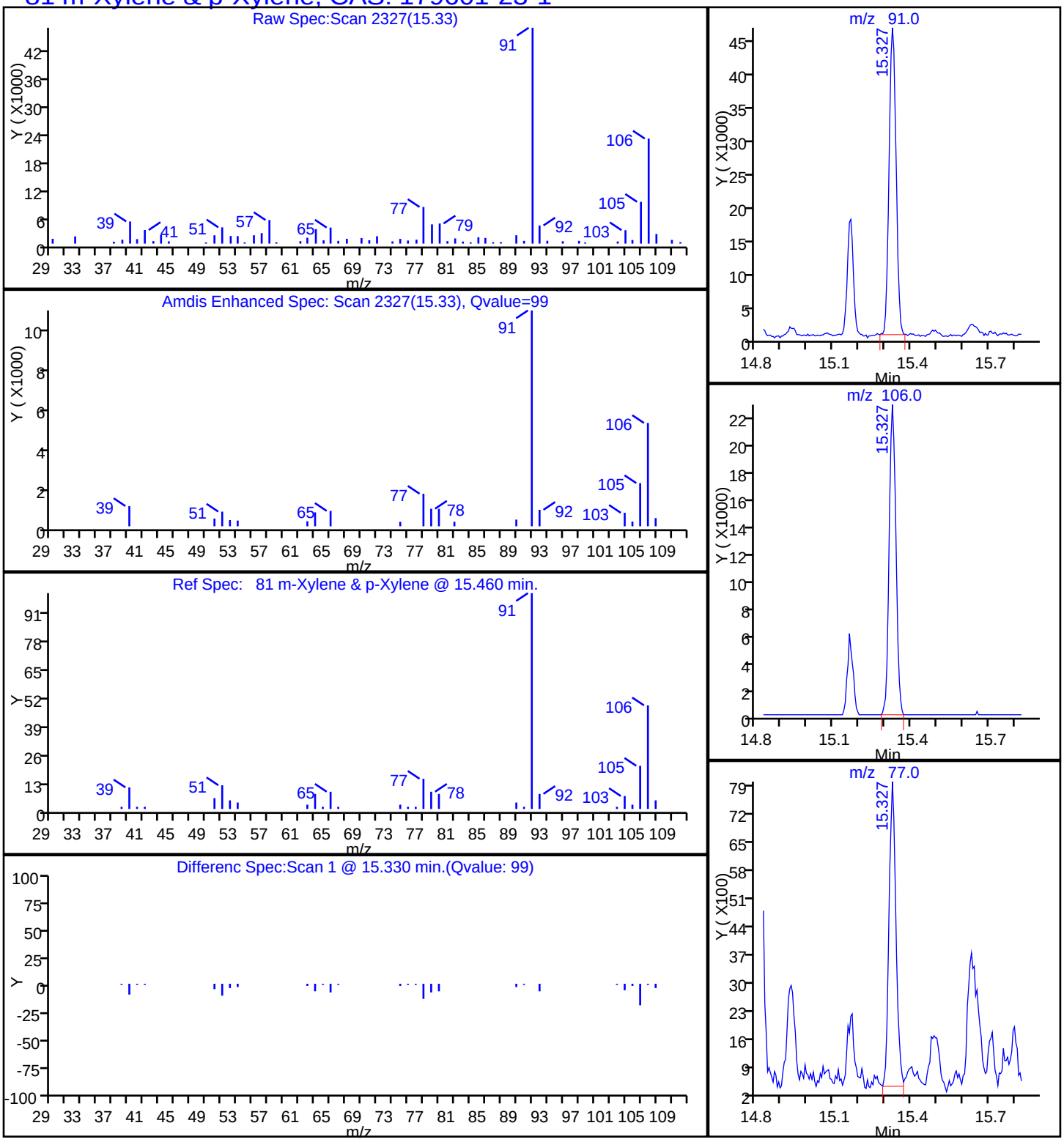


Report Date: 01-Sep-2016 19:19:11 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D				
Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8		
Client ID:	SG-217				
Operator ID:	007126	ALS Bottle#:	9	Worklist Smp#:	12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

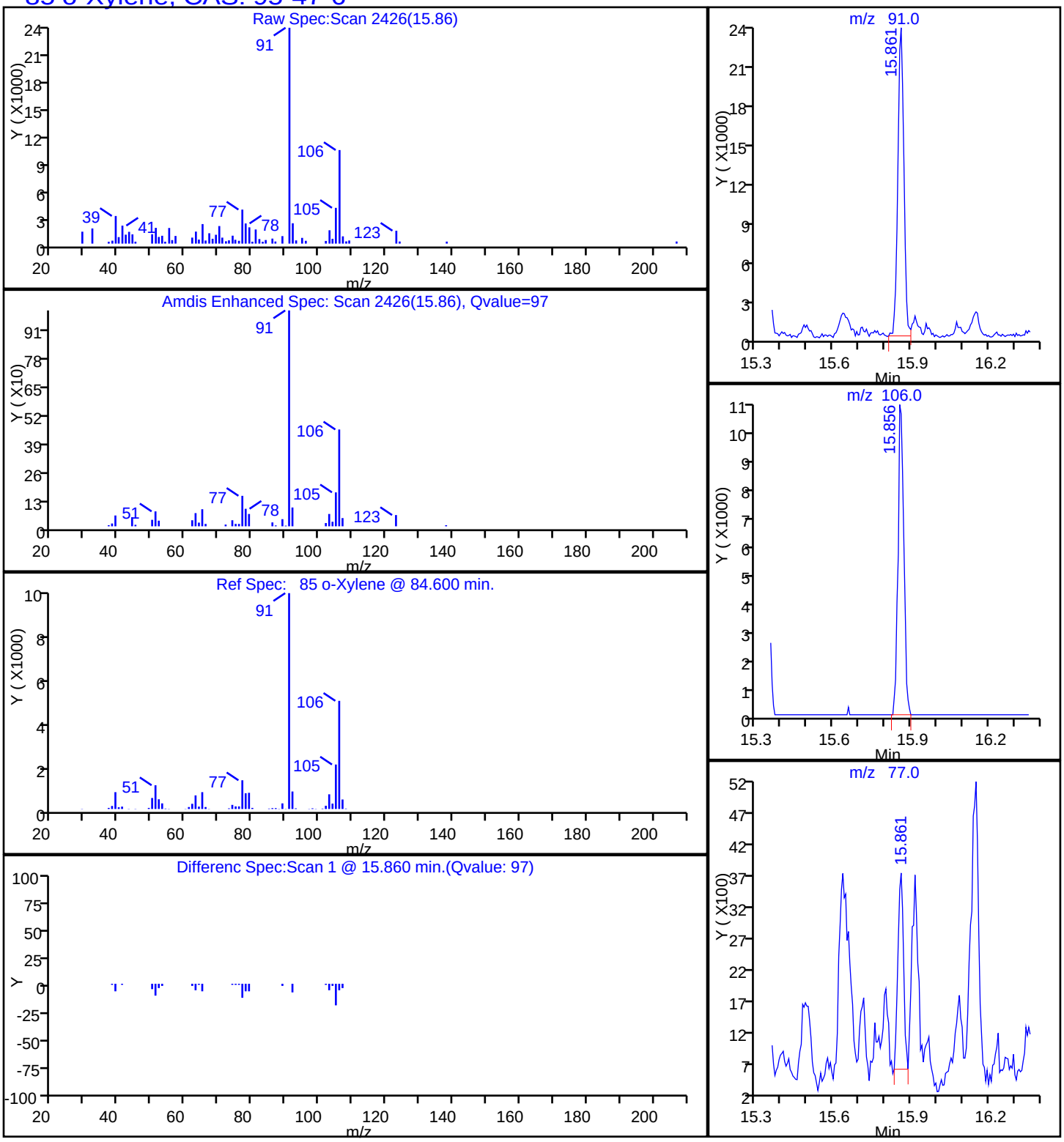
81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D		
Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8
Client ID:	SG-217		
Operator ID:	007126	ALS Bottle#:	9 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

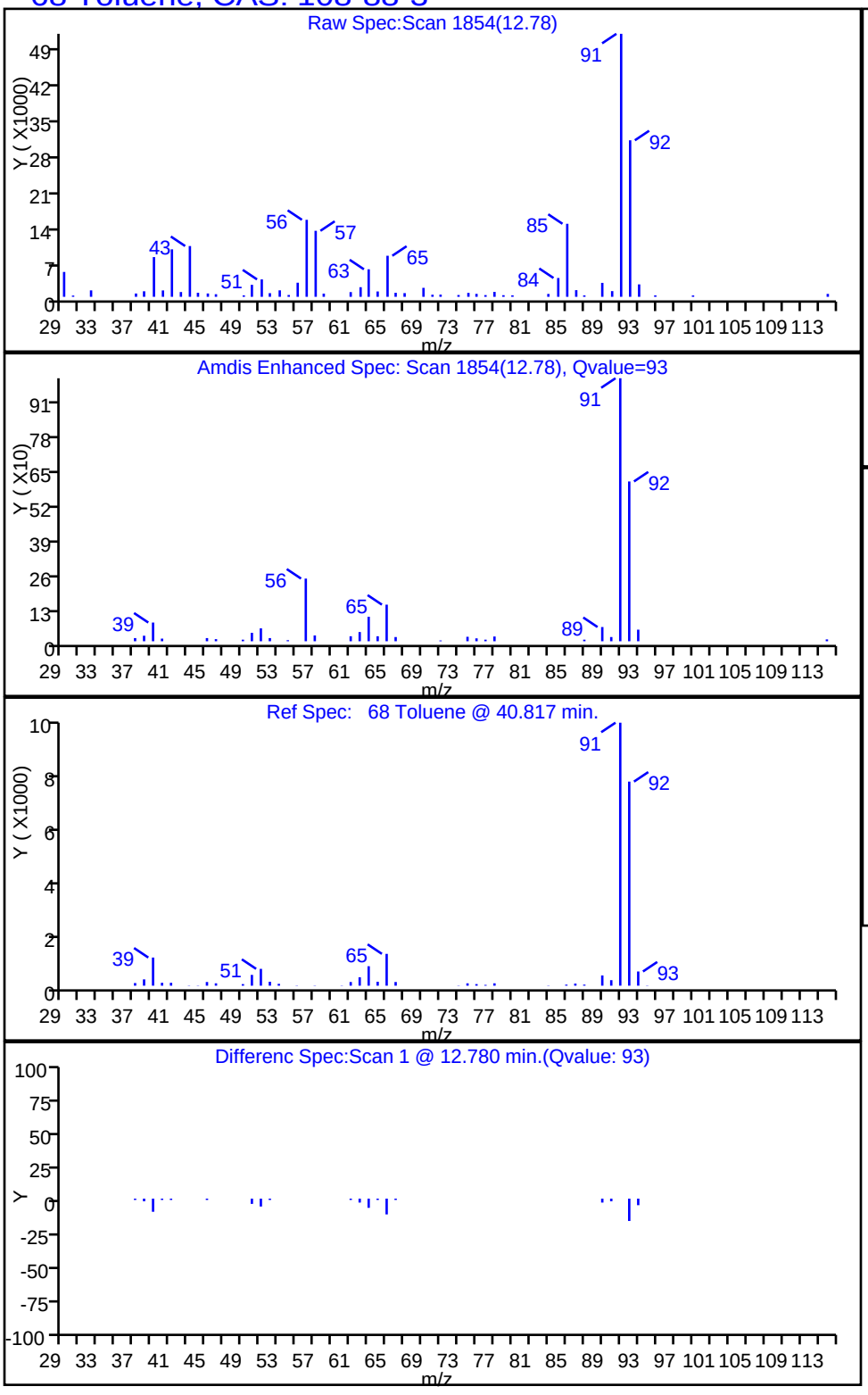
85 o-Xylene, CAS: 95-47-6

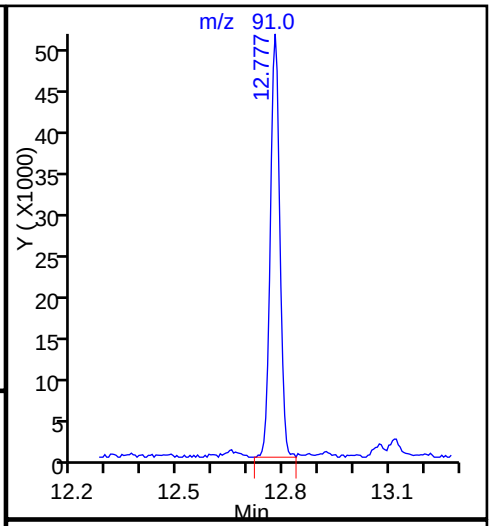


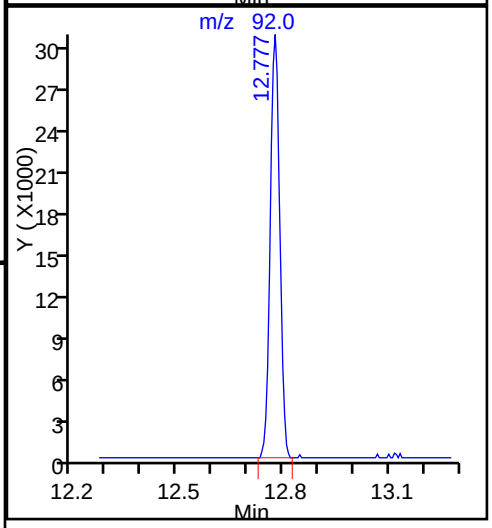
TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P109.D		
Injection Date:	01-Sep-2016 18:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-8	Lab Sample ID:	140-5720-8
Client ID:	SG-217		
Operator ID:	007126	ALS Bottle#:	9 Worklist Smp#: 12
Purge Vol:	500.000 mL	Dil. Factor:	14.1600
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

68 Toluene, CAS: 108-88-3







FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 Lab Sample ID: 140-5720-9

Matrix: Air Lab File ID: EI01P110.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: Dilution Factor: 1.46

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	3.5		0.80	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.80	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.80	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	1.4		0.80	
75-34-3	1,1-Dichloroethane	98.96	1.2		0.80	
75-35-4	1,1-Dichloroethene	96.94	ND		0.80	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.80	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.80	
106-93-4	1,2-Dibromoethane	187.87	ND		0.80	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.80	
107-06-2	1,2-Dichloroethane	98.96	ND		0.80	
78-87-5	1,2-Dichloropropane	112.99	ND		0.80	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.80	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.80	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.80	
106-46-7	1,4-Dichlorobenzene	147.00	15		0.80	
123-91-1	1,4-Dioxane	88.11	ND		2.0	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.0	
78-93-3	2-Butanone	72.11	ND		3.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	
71-43-2	Benzene	78.11	2.1		0.80	
100-44-7	Benzyl chloride	126.58	ND		1.6	
75-27-4	Bromodichloromethane	163.83	5.7		0.80	
75-25-2	Bromoform	252.75	ND		0.80	
74-83-9	Bromomethane	94.94	ND		0.80	
56-23-5	Carbon tetrachloride	153.81	ND		0.40	
108-90-7	Chlorobenzene	112.56	ND		0.80	
75-00-3	Chloroethane	64.52	ND		0.80	
67-66-3	Chloroform	119.38	30		0.80	
74-87-3	Chloromethane	50.49	ND		2.0	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.80	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.80	
110-82-7	Cyclohexane	84.16	ND		2.0	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 Lab Sample ID: 140-5720-9

Matrix: Air Lab File ID: EI01P110.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: Dilution Factor: 1.46

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	1.6		0.80	
75-71-8	Dichlorodifluoromethane	120.91	0.82		0.80	
64-17-5	Ethanol	46.07	ND		20	
100-41-4	Ethylbenzene	106.17	1.1		0.80	
87-68-3	Hexachlorobutadiene	260.76	ND		0.80	
110-54-3	Hexane	86.17	4.5		2.0	
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.6	
75-09-2	Methylene Chloride	84.93	ND		2.0	
179601-23-1	m-Xylene & p-Xylene	106.17	4.6		0.80	
95-47-6	o-Xylene	106.17	1.8		0.80	
100-42-5	Styrene	104.15	ND		0.80	
75-65-0	t-Butyl alcohol	74.12	ND		3.2	
127-18-4	Tetrachloroethene	165.83	34		0.80	
108-88-3	Toluene	92.14	5.0		1.2	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.80	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.80	
79-01-6	Trichloroethene	131.39	5.7		0.40	
75-69-4	Trichlorofluoromethane	137.37	ND		0.80	
75-01-4	Vinyl chloride	62.50	ND		0.40	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 | Lab Sample ID: 140-5720-9

Matrix: Air | Lab File ID: EI01P110.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) | Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: | Dilution Factor: 1.46

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	19		4.4	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		5.5	
79-00-5	1,1,2-Trichloroethane	133.41	ND		4.4	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	11		6.1	
75-34-3	1,1-Dichloroethane	98.96	4.7		3.2	
75-35-4	1,1-Dichloroethene	96.94	ND		3.2	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		5.9	
95-63-6	1,2,4-Trimethylbenzene	120.20	8.5		3.9	
106-93-4	1,2-Dibromoethane	187.87	ND		6.1	
95-50-1	1,2-Dichlorobenzene	147.00	ND		4.8	
107-06-2	1,2-Dichloroethane	98.96	ND		3.2	
78-87-5	1,2-Dichloropropane	112.99	ND		3.7	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		5.6	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.9	
541-73-1	1,3-Dichlorobenzene	147.00	ND		4.8	
106-46-7	1,4-Dichlorobenzene	147.00	90		4.8	
123-91-1	1,4-Dioxane	88.11	ND		7.2	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		9.3	
78-93-3	2-Butanone	72.11	ND		9.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		8.2	
71-43-2	Benzene	78.11	6.8		2.6	
100-44-7	Benzyl chloride	126.58	ND		8.3	
75-27-4	Bromodichloromethane	163.83	38		5.4	
75-25-2	Bromoform	252.75	ND		8.3	
74-83-9	Bromomethane	94.94	ND		3.1	
56-23-5	Carbon tetrachloride	153.81	ND		2.5	
108-90-7	Chlorobenzene	112.56	ND		3.7	
75-00-3	Chloroethane	64.52	ND		2.1	
67-66-3	Chloroform	119.38	140		3.9	
74-87-3	Chloromethane	50.49	ND		4.1	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		3.2	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		3.6	
110-82-7	Cyclohexane	84.16	ND		6.9	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 | Lab Sample ID: 140-5720-9

Matrix: Air | Lab File ID: EI01P110.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) | Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: | Dilution Factor: 1.46

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	14		6.8	
75-71-8	Dichlorodifluoromethane	120.91	4.1		4.0	
64-17-5	Ethanol	46.07	ND		38	
100-41-4	Ethylbenzene	106.17	4.9		3.5	
87-68-3	Hexachlorobutadiene	260.76	ND		8.5	
110-54-3	Hexane	86.17	16		7.0	
1634-04-4	Methyl tert-butyl ether	88.15	ND		5.8	
75-09-2	Methylene Chloride	84.93	ND		6.9	
179601-23-1	m-Xylene & p-Xylene	106.17	20		3.5	
95-47-6	o-Xylene	106.17	7.7		3.5	
100-42-5	Styrene	104.15	ND		3.4	
75-65-0	t-Butyl alcohol	74.12	ND		9.7	
127-18-4	Tetrachloroethene	165.83	230		5.4	
108-88-3	Toluene	92.14	19		4.5	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.2	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		3.6	
79-01-6	Trichloroethene	131.39	31		2.1	
75-69-4	Trichlorofluoromethane	137.37	ND		4.5	
75-01-4	Vinyl chloride	62.50	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D
Lims ID: 140-5720-A-9
Client ID: SG-218
Sample Type: Client
Inject. Date: 01-Sep-2016 18:56:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.4600
Sample Info: 140-0003369-013
Misc. Info.: 140-5720-a-9@1.46
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 19:47:33 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 19:47:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.562	7.568	-0.006	82	275684	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1314383	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1231806	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.481	16.487	-0.006	87	1042665	4.14	
8 Dichlorodifluoromethane	85	2.946	2.946	0.000	98	23861	0.0823	
9 Chloromethane	52	3.097	3.097	0.000	98	2396	0.1287	
15 Bromomethane	94	3.583	3.577	0.006	93	1245	0.0148	
16 Chloroethane	64	3.696	3.696	0.000	36	739	0.0187	
20 Trichlorofluoromethane	101	4.170	4.165	0.005	98	18461	0.0658	
28 2-Methyl-2-propanol	59	4.893	4.877	0.016	91	10203	0.0894	
30 1,1,2-Trichloro-1,2,2-trif	101	4.941	4.942	-0.001	95	24907	0.1374	
31 Methylene Chloride	84	5.109	5.103	0.006	78	9685	0.1120	
37 1,1-Dichloroethane	63	6.279	6.279	0.000	99	17683	0.1154	
39 2-Butanone (MEK)	72	6.845	6.834	0.011	80	11368	0.2830	
40 Hexane	56	6.840	6.840	0.000	88	24350	0.4522	
44 Chloroform	83	7.578	7.584	-0.006	97	678263	2.95	
47 1,1,1-Trichloroethane	97	8.592	8.598	-0.006	93	89930	0.3491	
50 Cyclohexane	69	9.207	9.207	0.011	46	3948	0.0886	
51 Benzene	78	9.196	9.202	-0.006	95	56984	0.2115	
56 Isooctane	57	10.037	10.037	0.000	88	21413	0.0684	
59 Trichloroethene	130	10.577	10.582	-0.005	93	67583	0.5739	
61 Dichlorobromomethane	83	10.835	10.835	0.000	97	130214	0.5700	
65 4-Methyl-2-pentanone (MIBK	43	11.892	11.887	0.005	88	4569	0.0433	
68 Toluene	91	12.777	12.777	0.000	94	146653	0.4964	
74 Chlorodibromomethane	129	13.580	13.586	-0.006	95	30894	0.1619	
76 Tetrachloroethene	129	13.958	13.963	-0.005	94	385138	3.35	
79 Ethylbenzene	91	15.165	15.166	-0.001	98	44477	0.1122	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	140802	0.4554	
84 Styrene	104	15.807	15.802	0.005	97	5767	0.0289	
85 o-Xylene	91	15.861	15.861	0.000	98	57391	0.1769	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	92	10281	0.0547	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
96 1,2,4-Trimethylbenzene	105	17.727	17.732	-0.005	98	60380	0.1734	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	91	306312	1.49	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

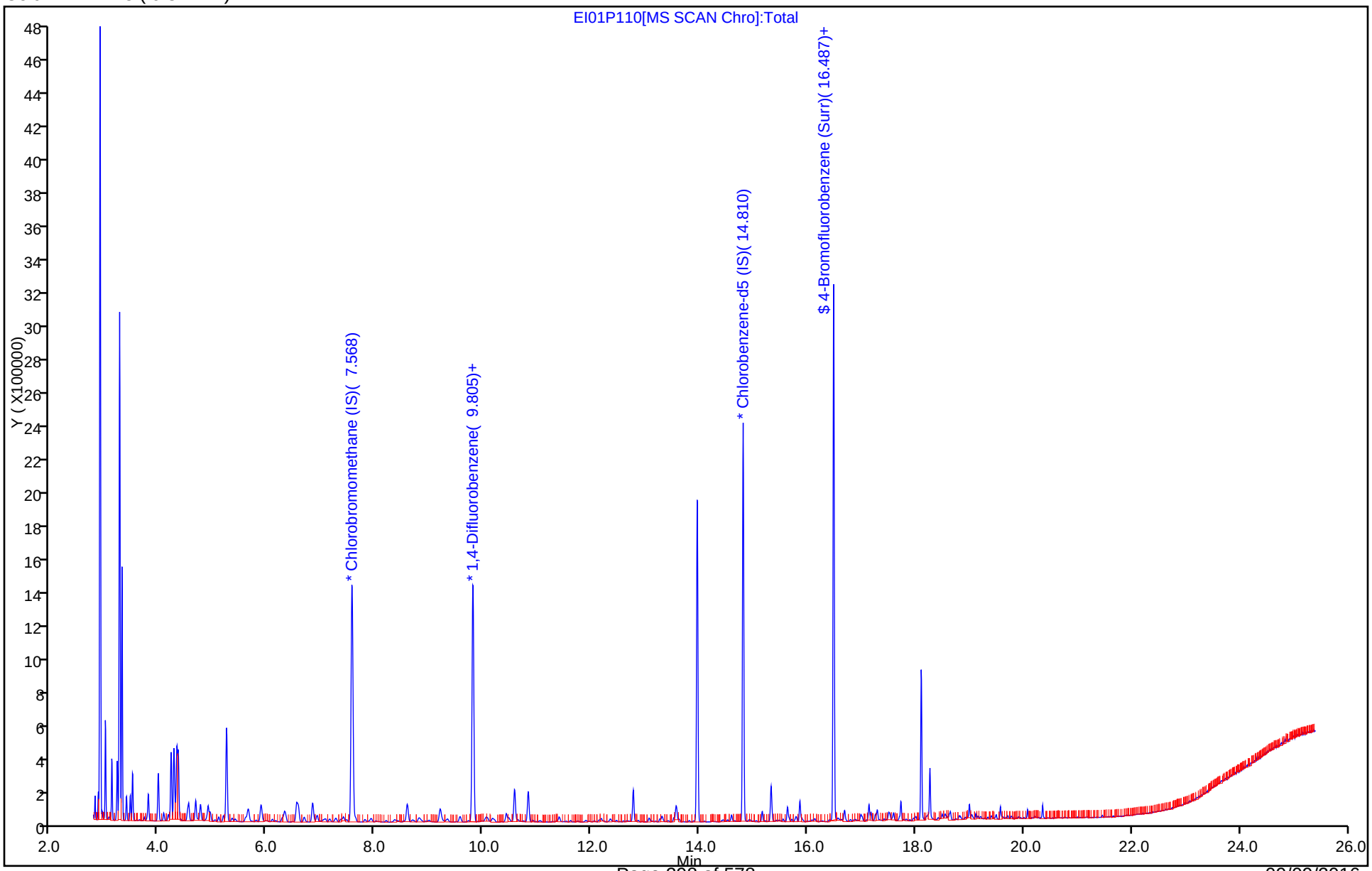
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D

Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9	Worklist Smp#:	13
Client ID:	SG-218				
Purge Vol:	500.000 mL	Dil. Factor:	1.4600	ALS Bottle#:	10
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

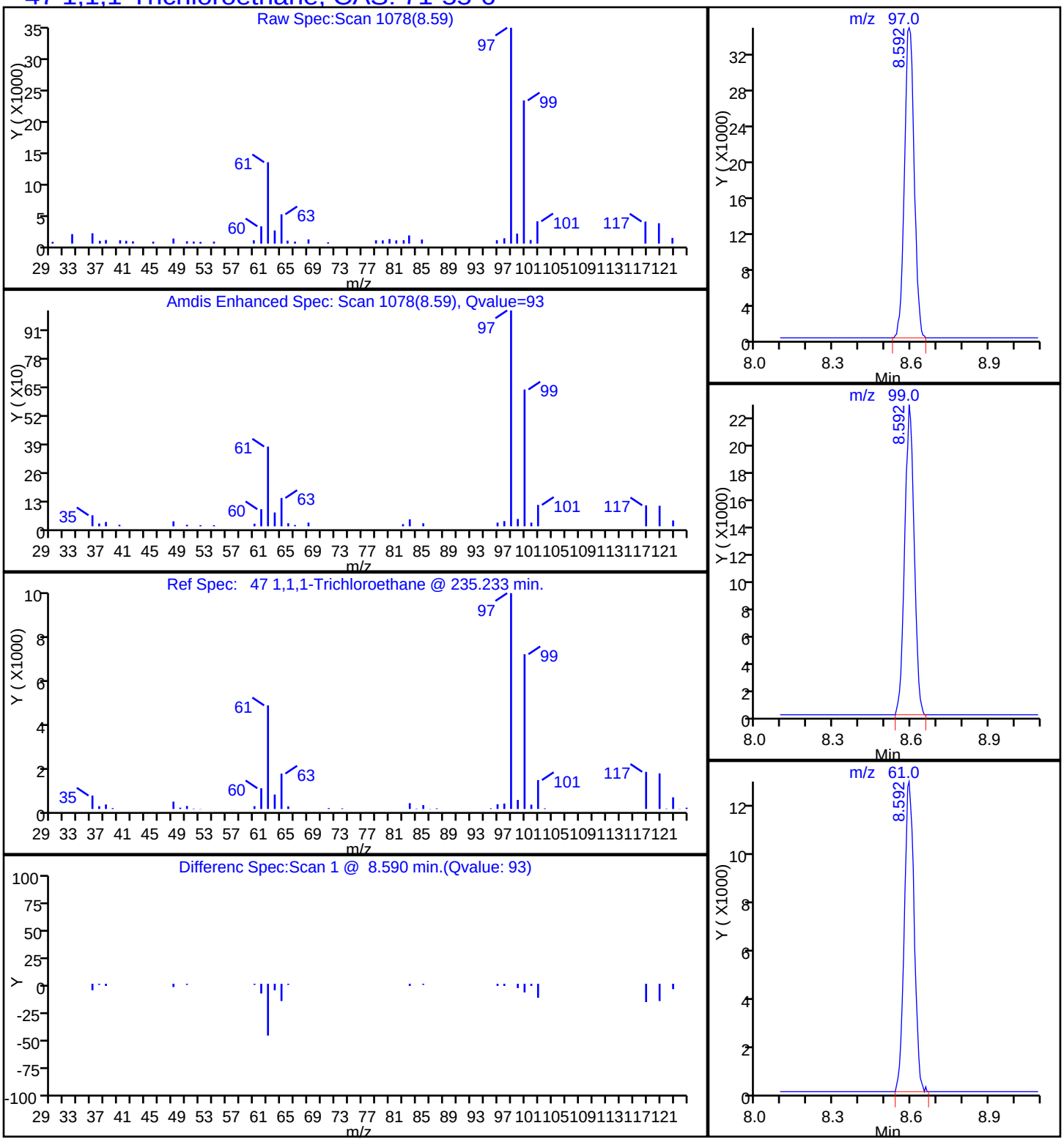
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Lims ID:	140-5720-A-9				
Client ID:	SG-218				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 18:56:30	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Sample Info:	140-0003369-013				
Misc. Info.:	140-5720-a-9@1.46				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 19:47:33	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
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Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 19:47:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.14	103.41

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D				
Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

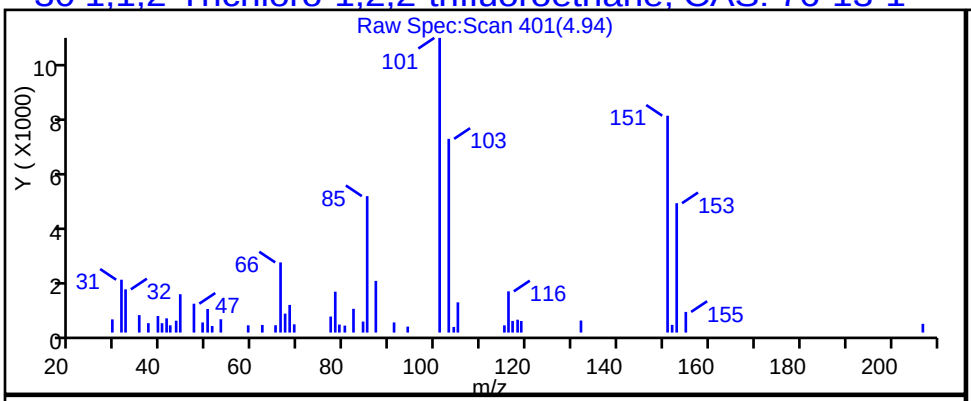
47 1,1,1-Trichloroethane, CAS: 71-55-6

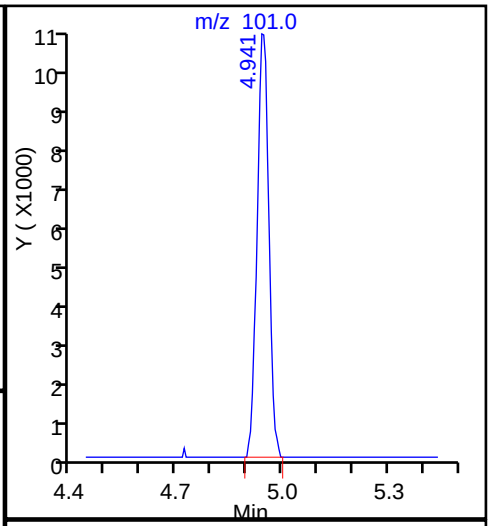


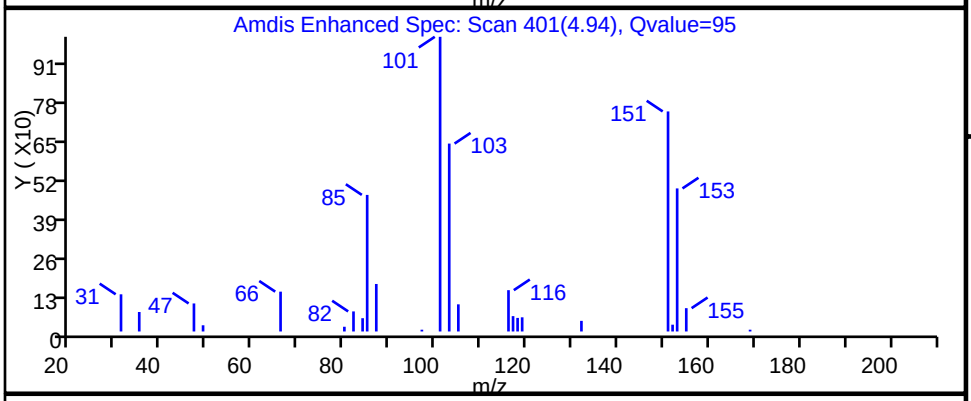
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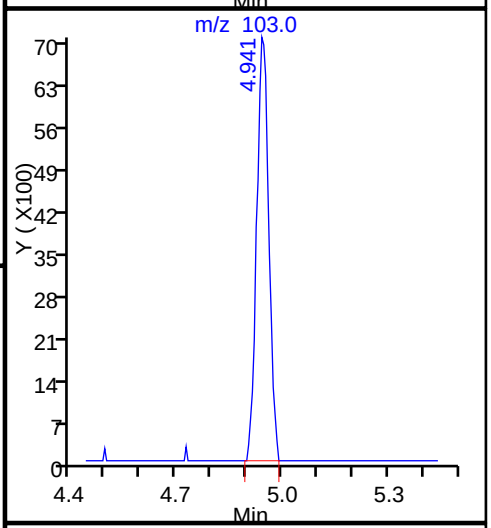
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Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

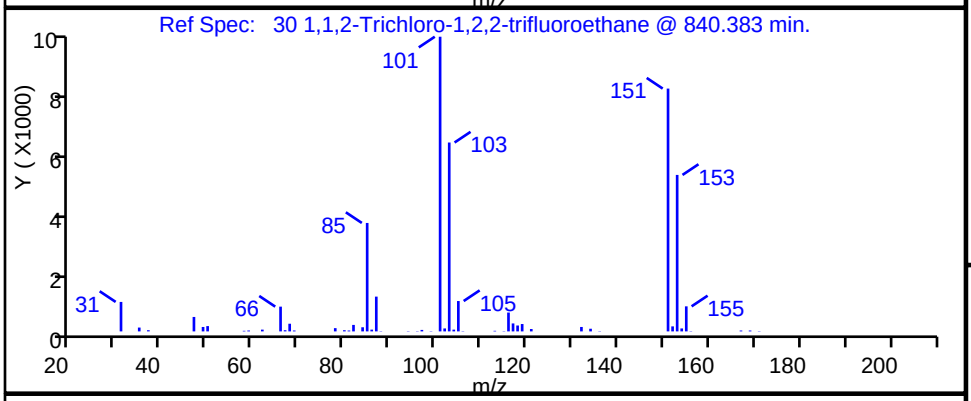
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

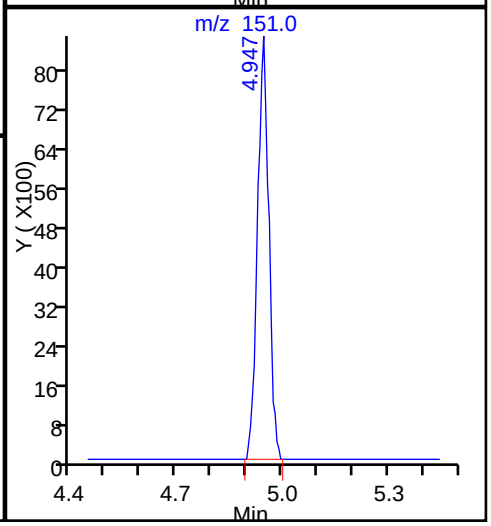


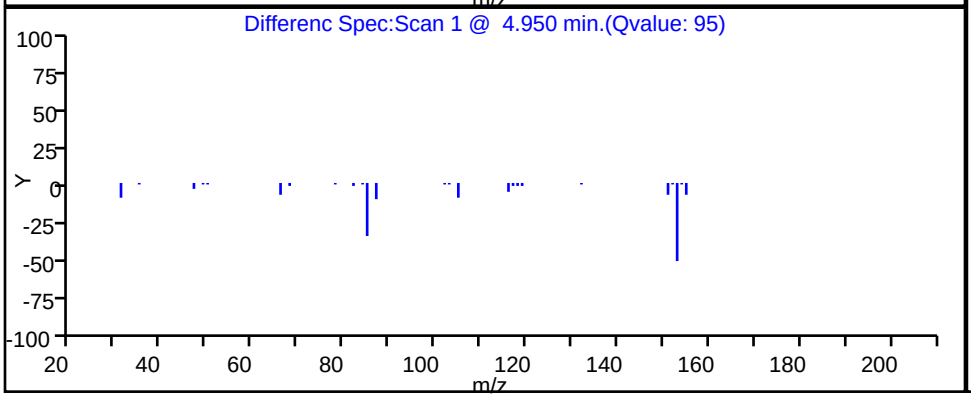








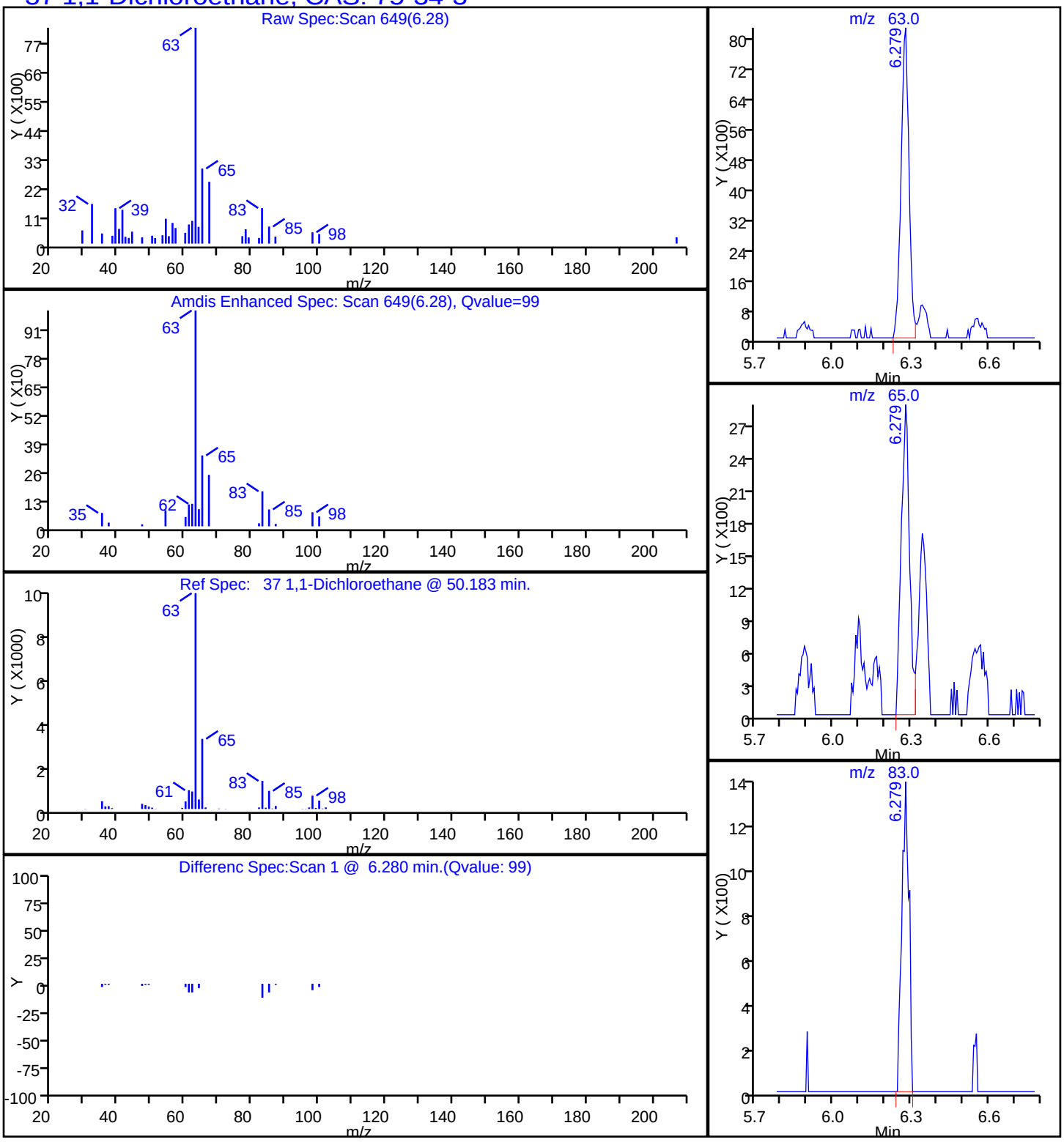




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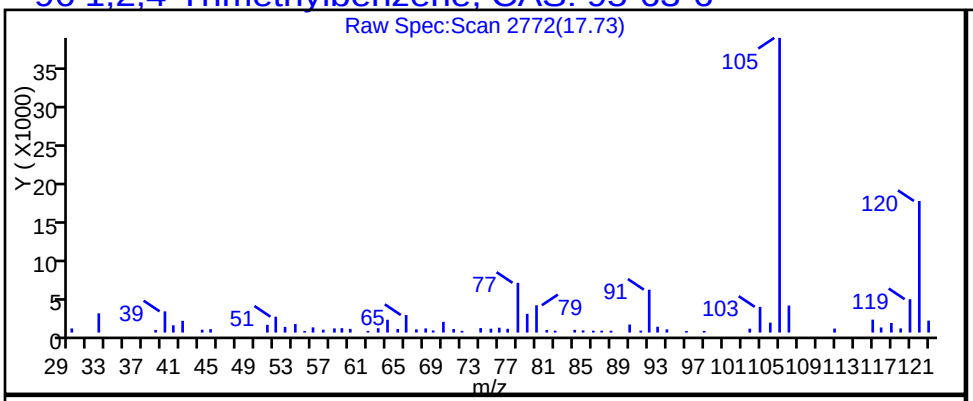
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Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

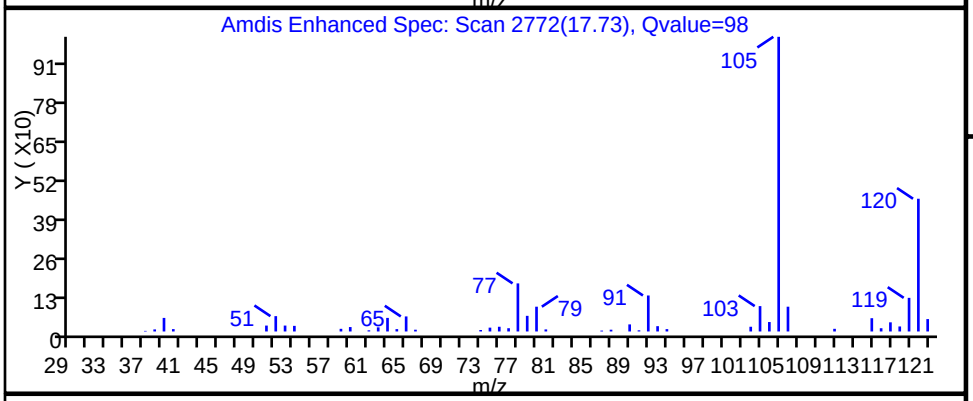
37 1,1-Dichloroethane, CAS: 75-34-3

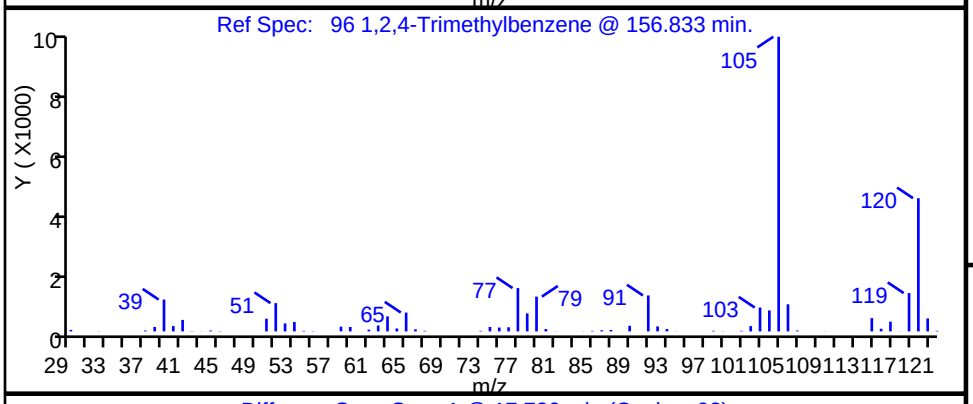


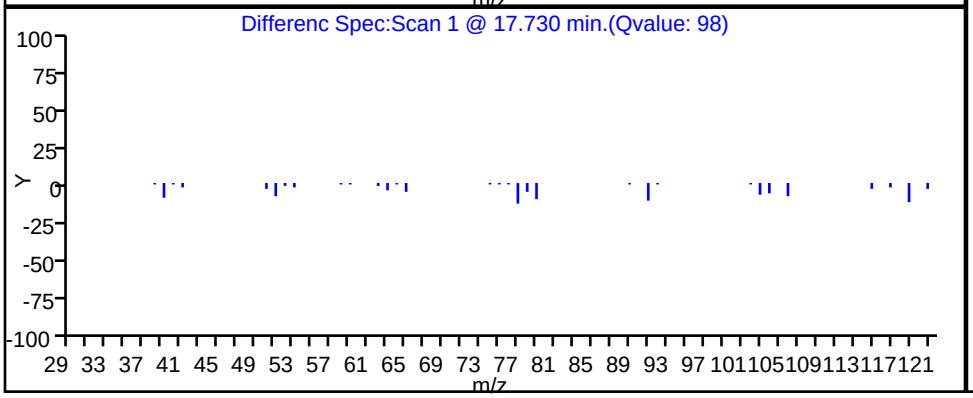
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Injection Date: 01-Sep-2016 18:56:30 Instrument ID: ME
Lims ID: 140-5720-A-9 Lab Sample ID: 140-5720-9
Client ID: SG-218
Operator ID: 007126 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.4600
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

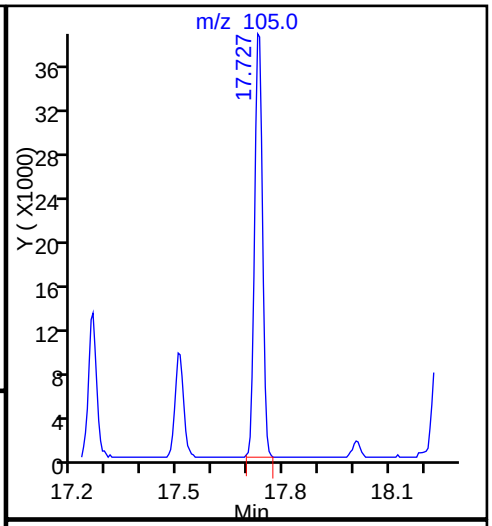
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

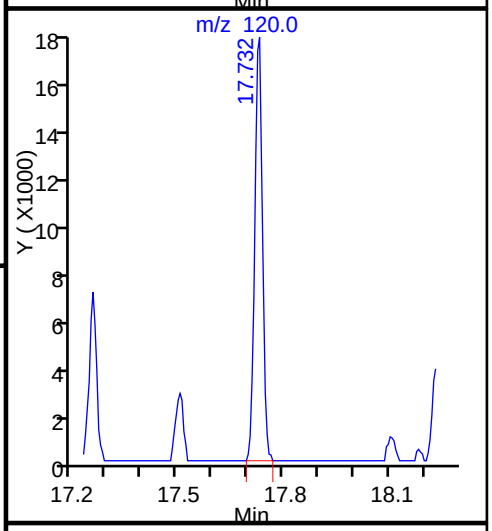


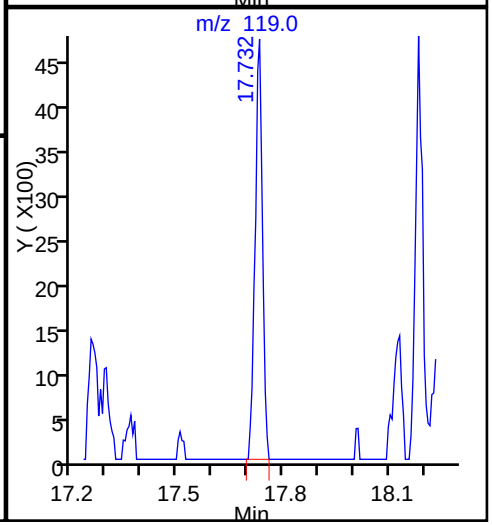








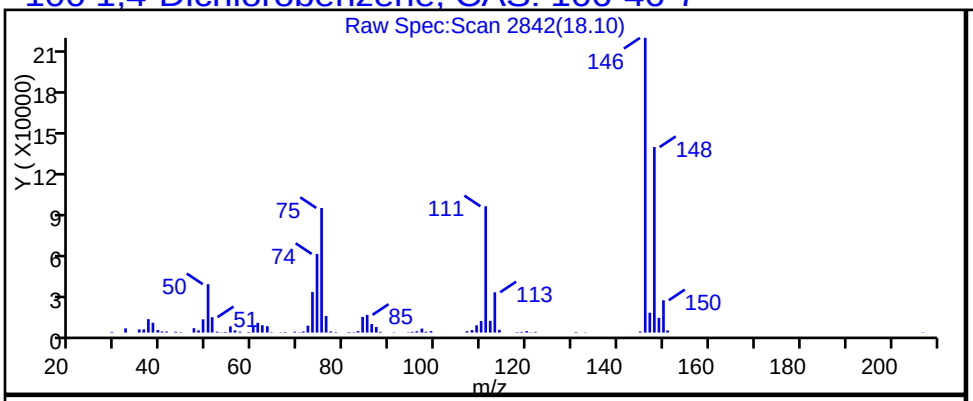


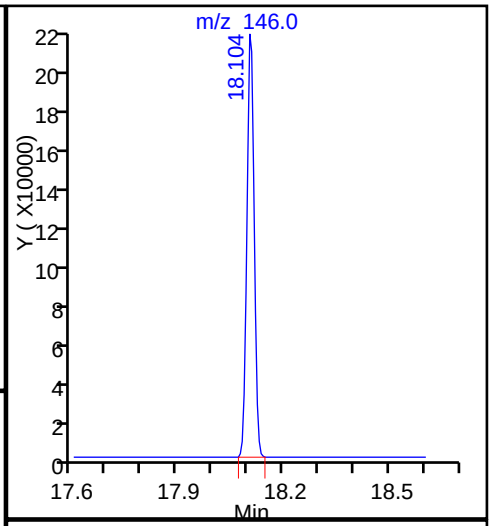


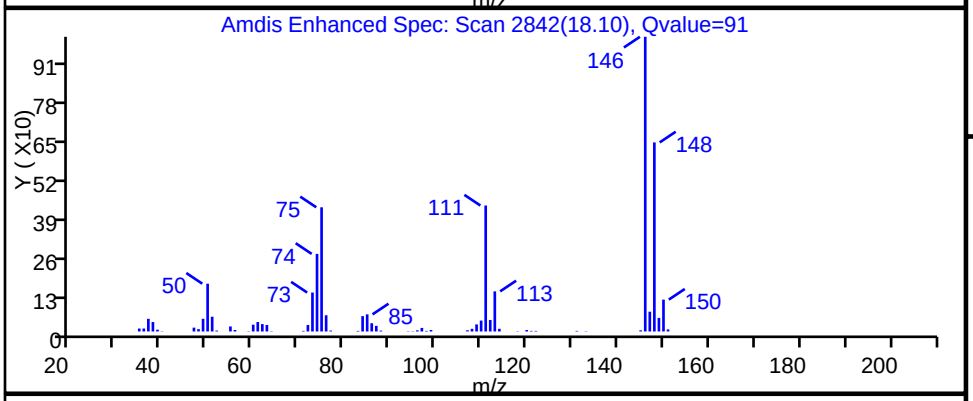
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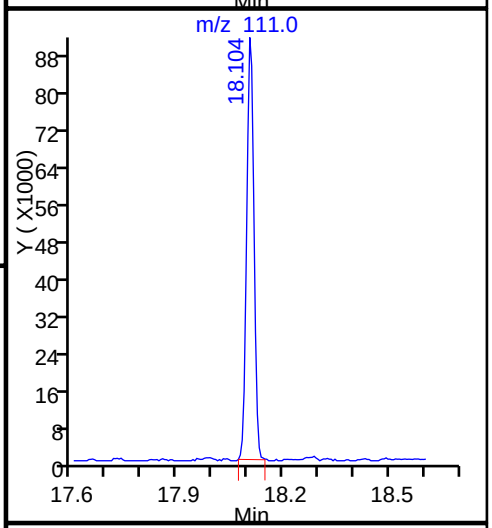
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Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

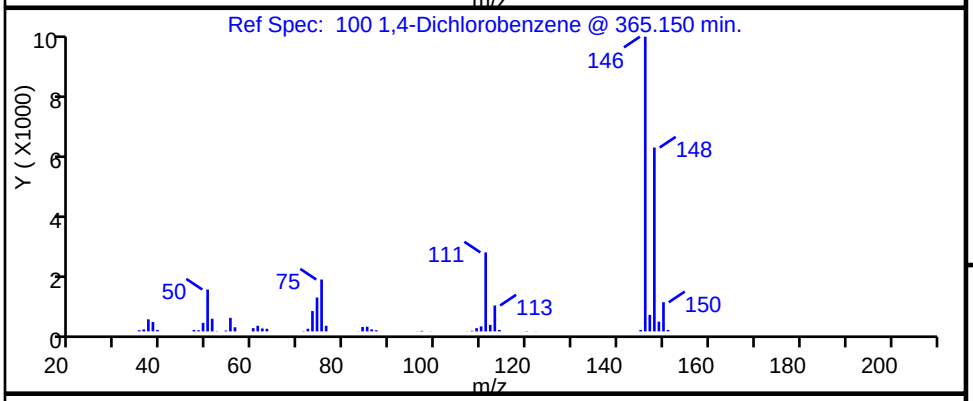
100 1,4-Dichlorobenzene, CAS: 106-46-7

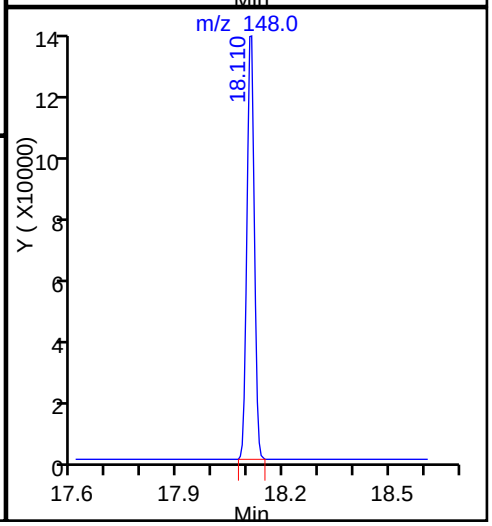


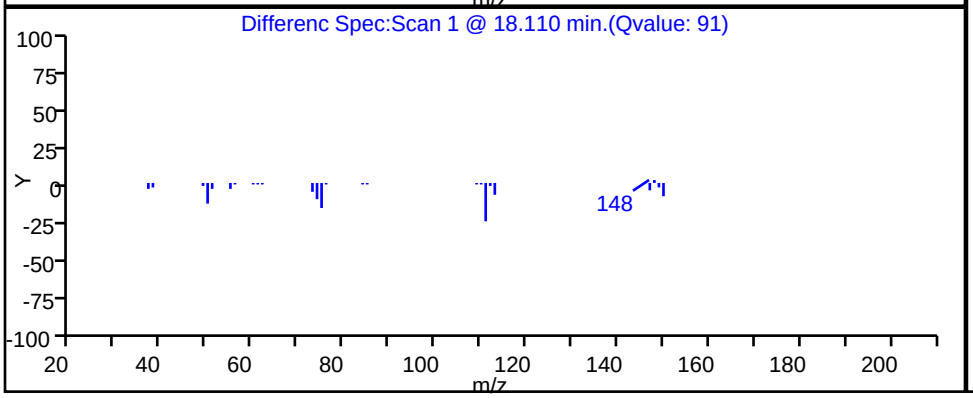








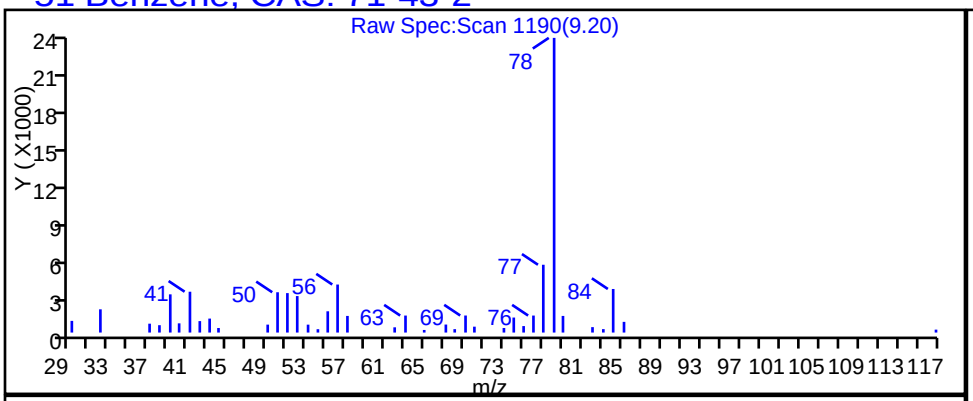


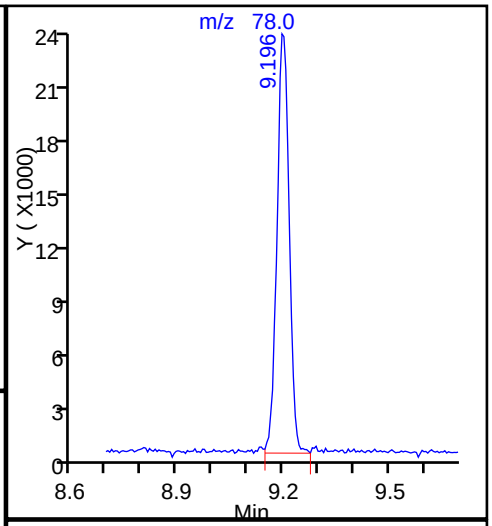


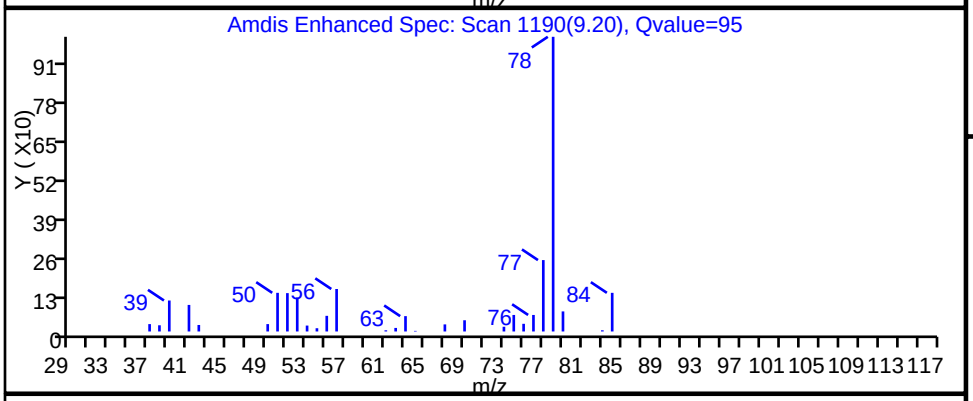
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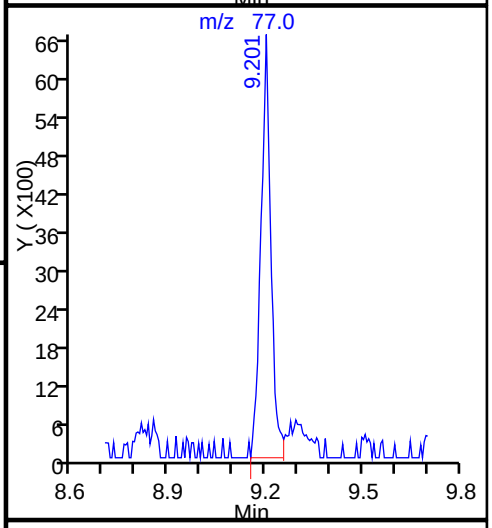
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Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

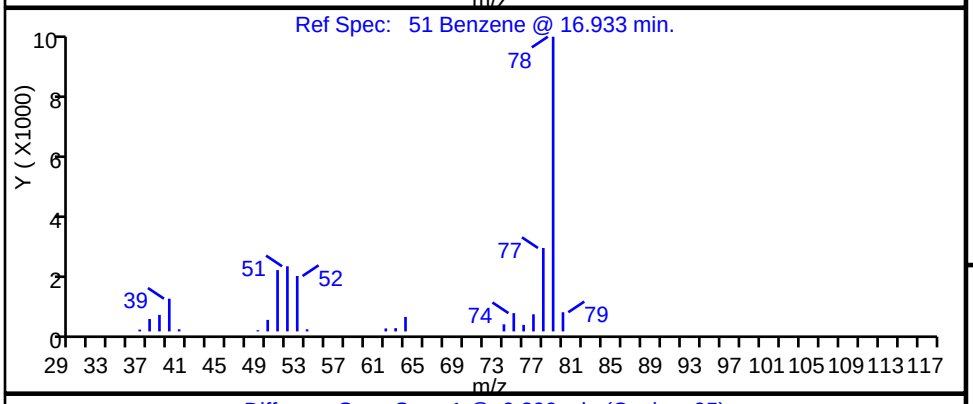
51 Benzene, CAS: 71-43-2

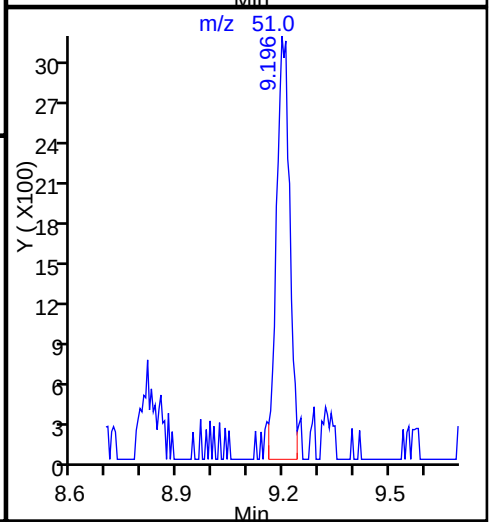


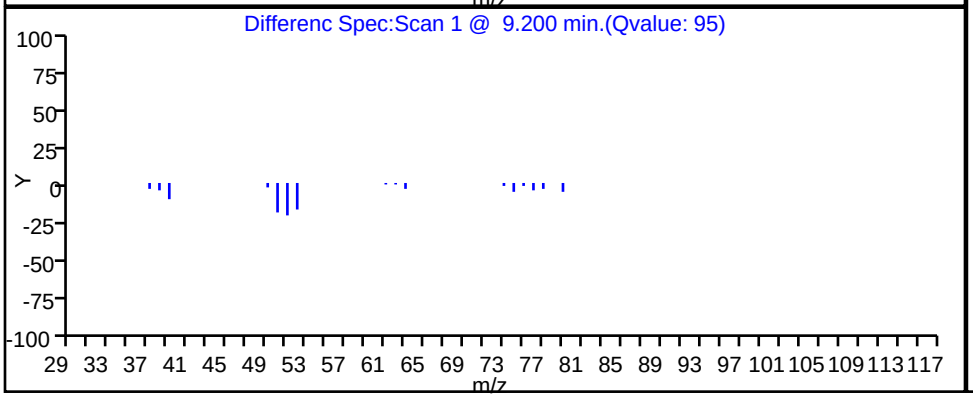








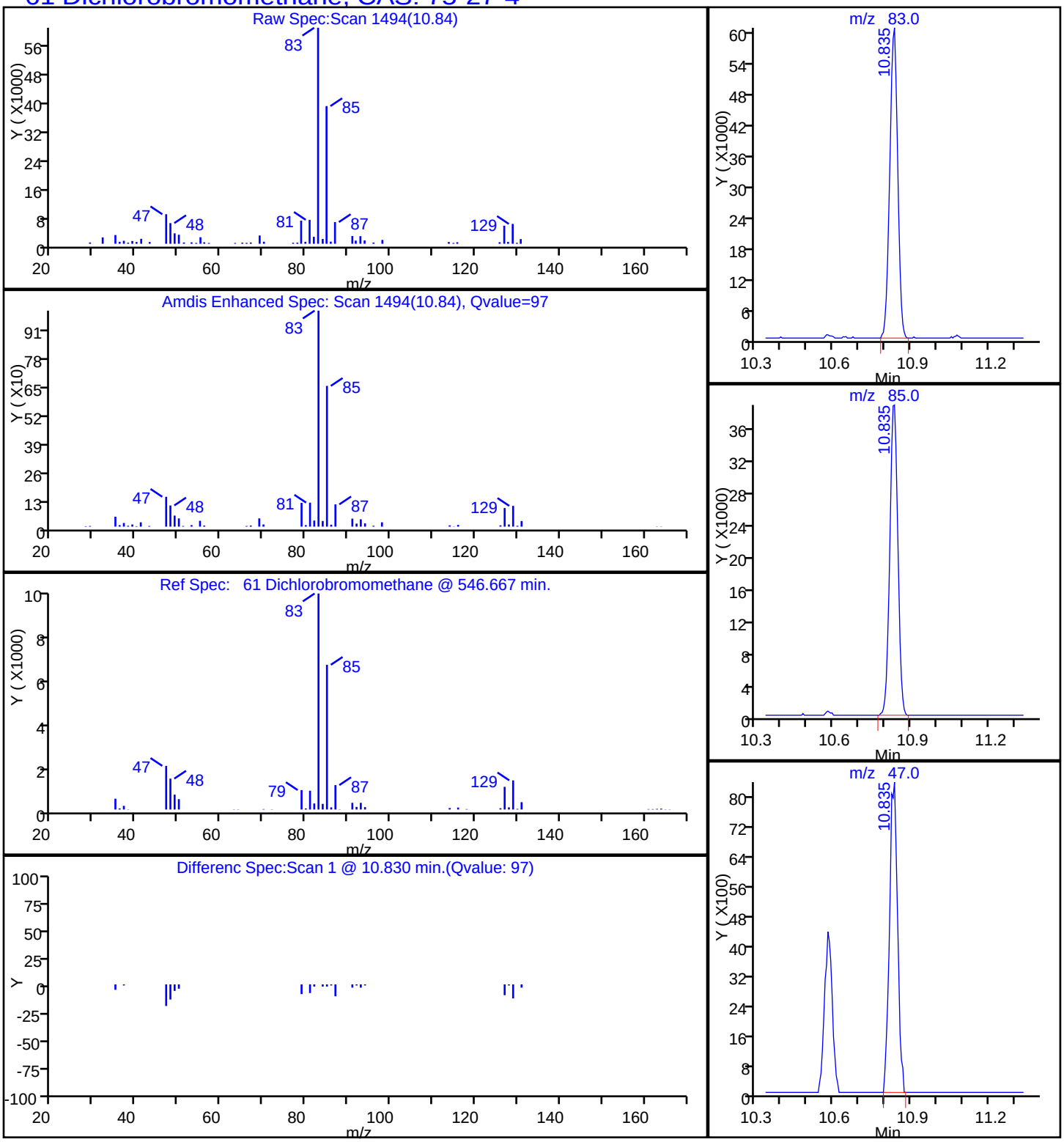




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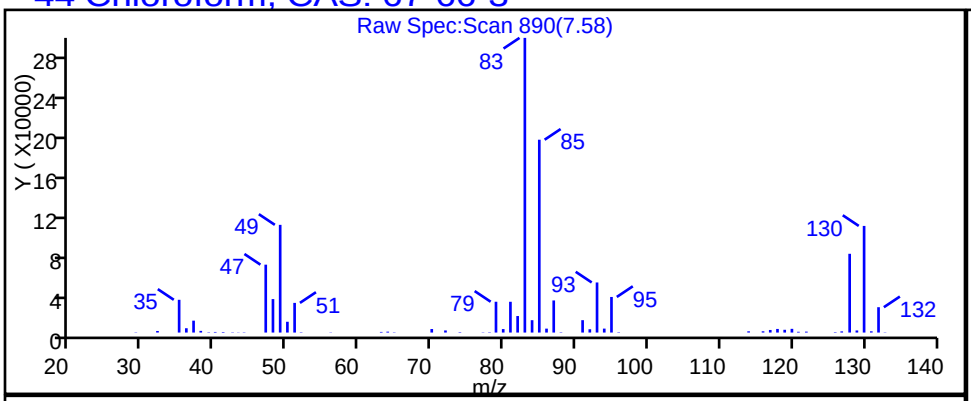
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Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

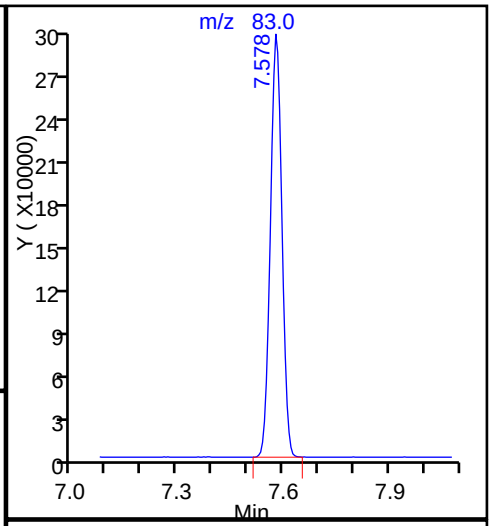
61 Dichlorobromomethane, CAS: 75-27-4

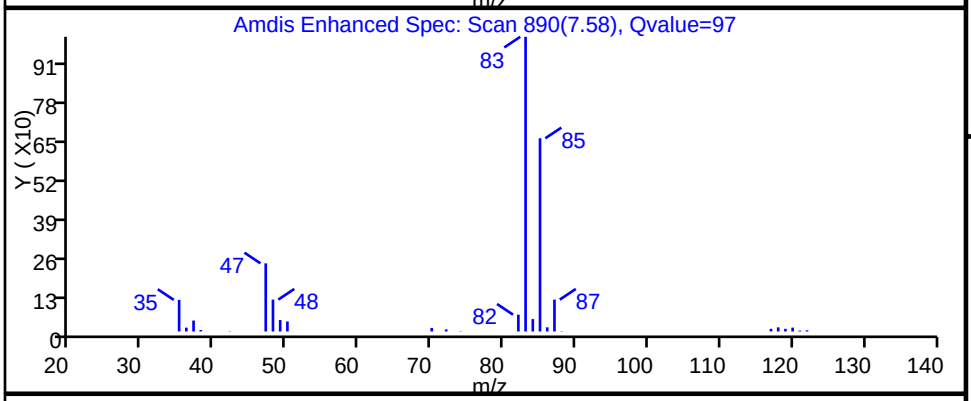


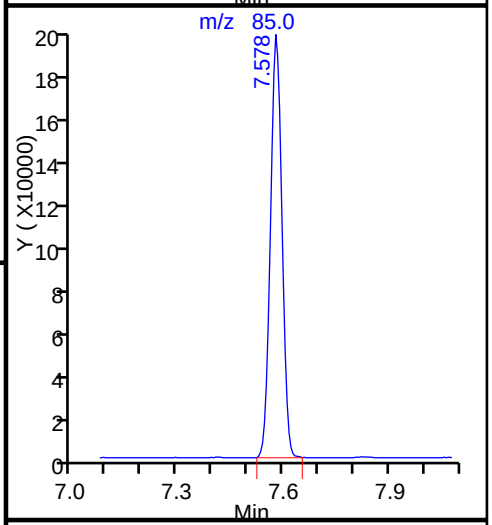
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Injection Date: 01-Sep-2016 18:56:30 Instrument ID: ME
Lims ID: 140-5720-A-9 Lab Sample ID: 140-5720-9
Client ID: SG-218
Operator ID: 007126 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.4600
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

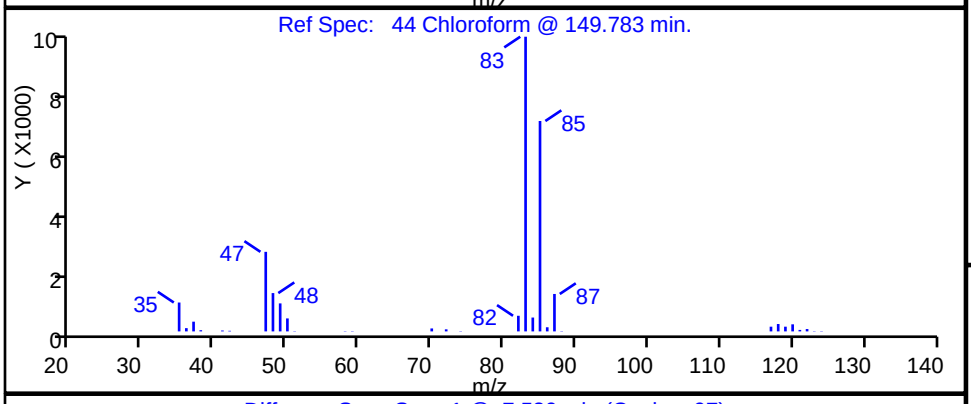
44 Chloroform, CAS: 67-66-3

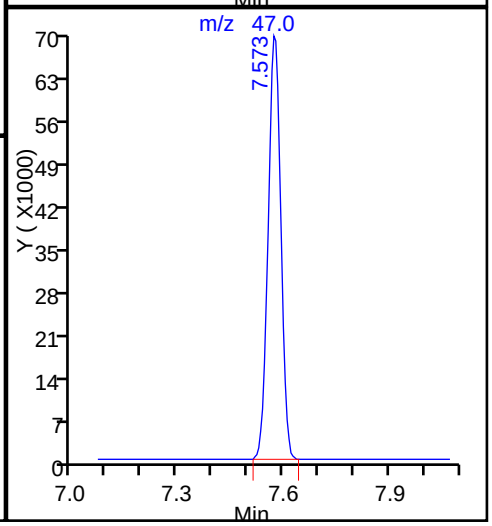


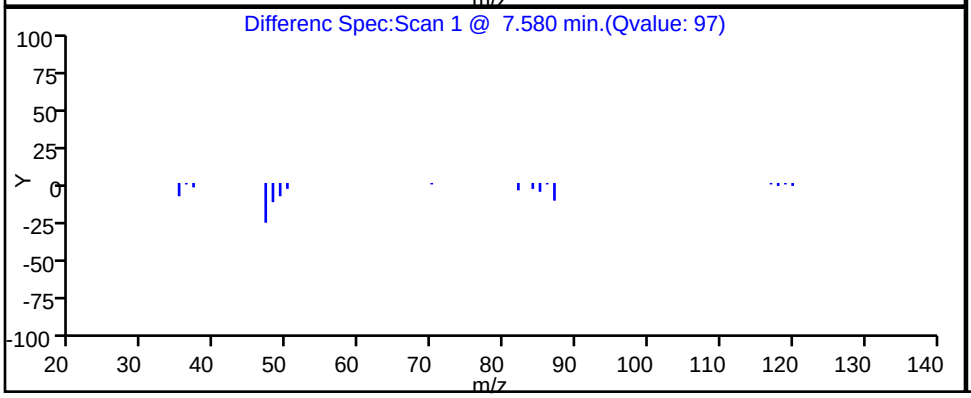








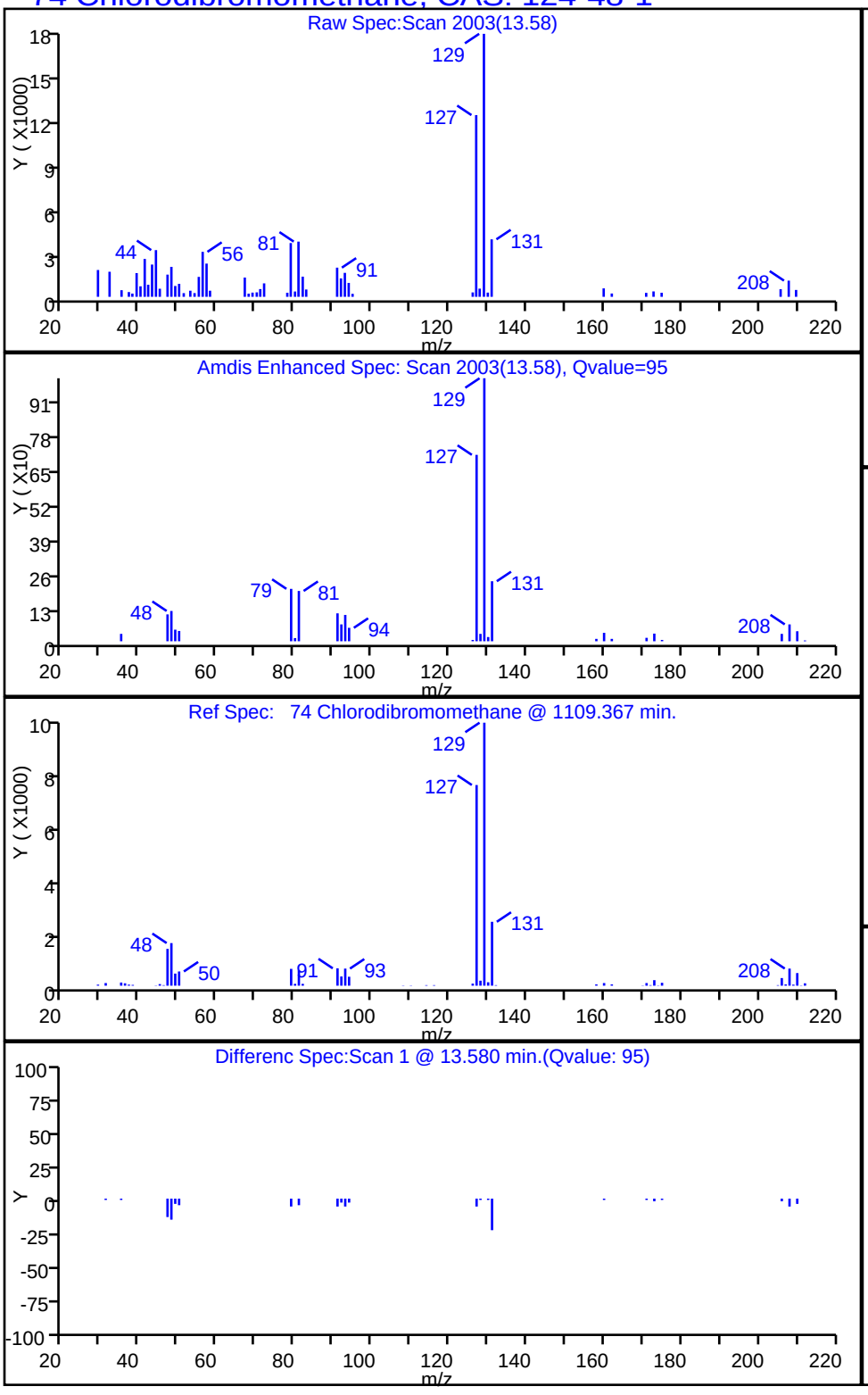


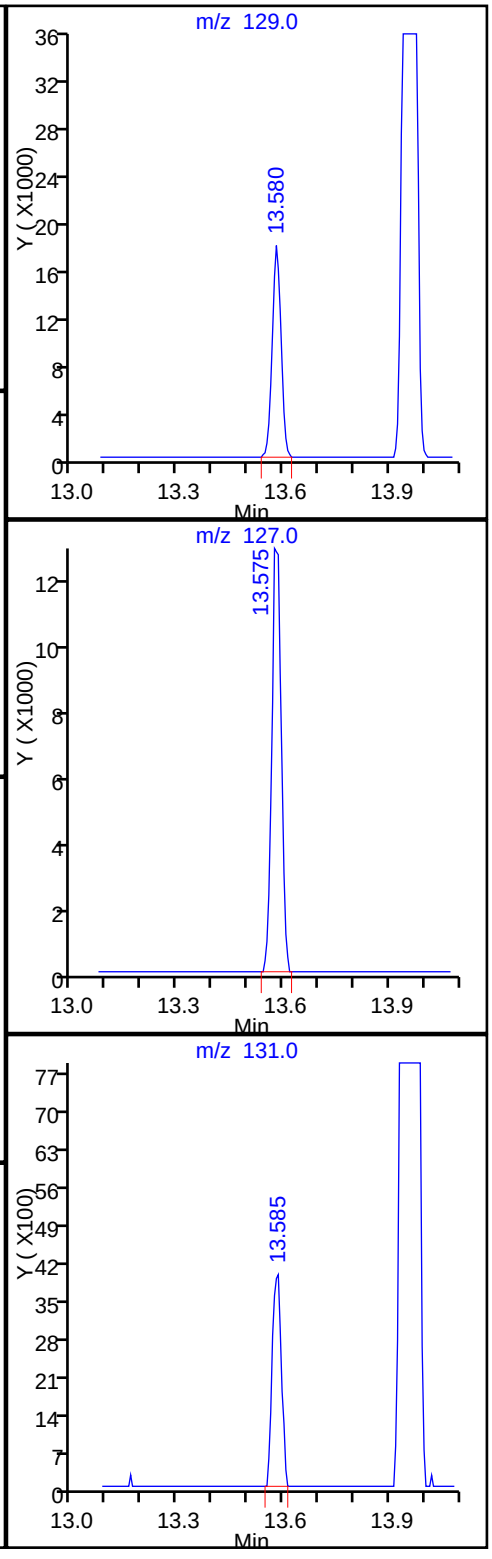


TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D				
Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

74 Chlorodibromomethane, CAS: 124-48-1

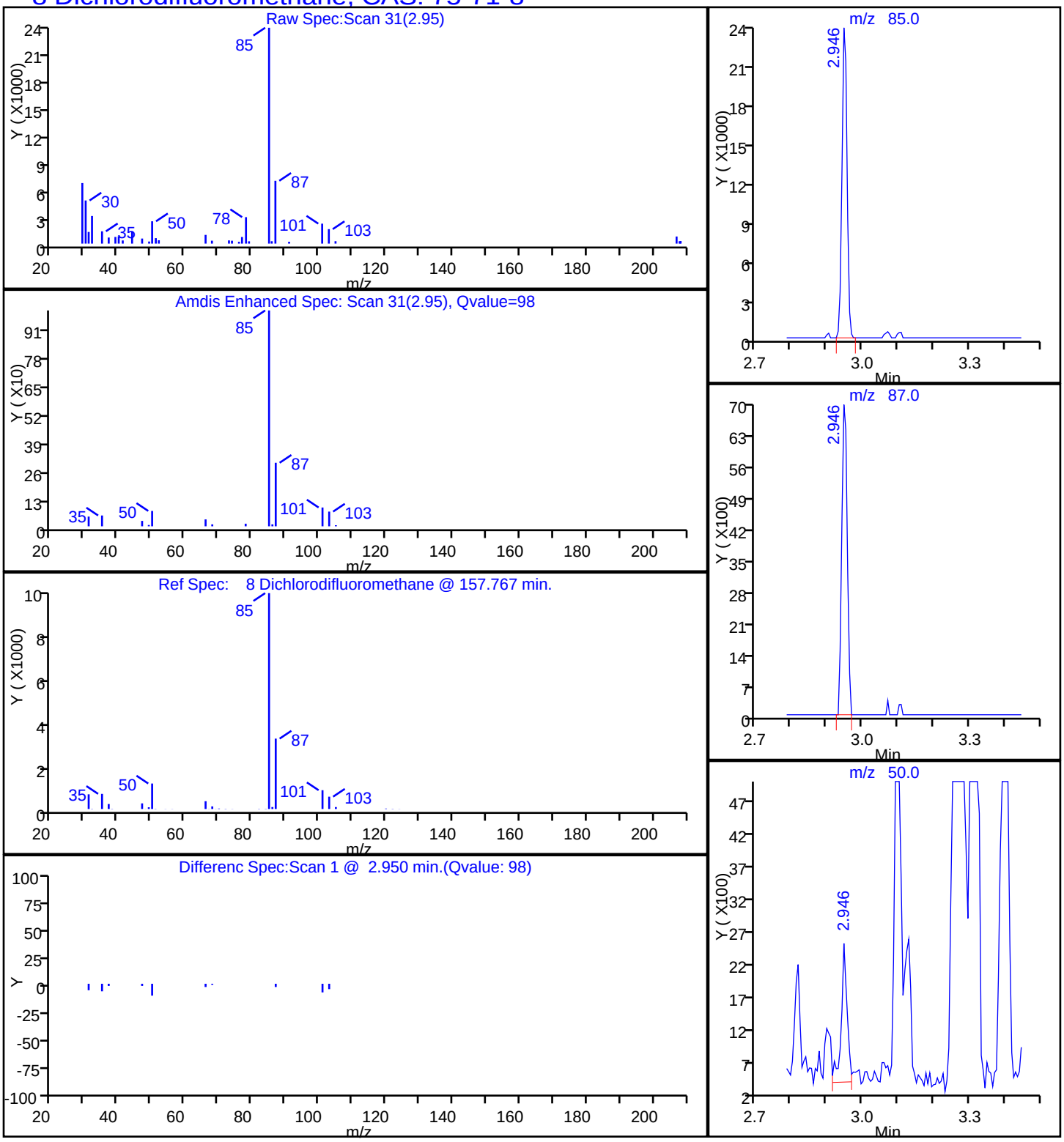




TestAmerica Knoxville

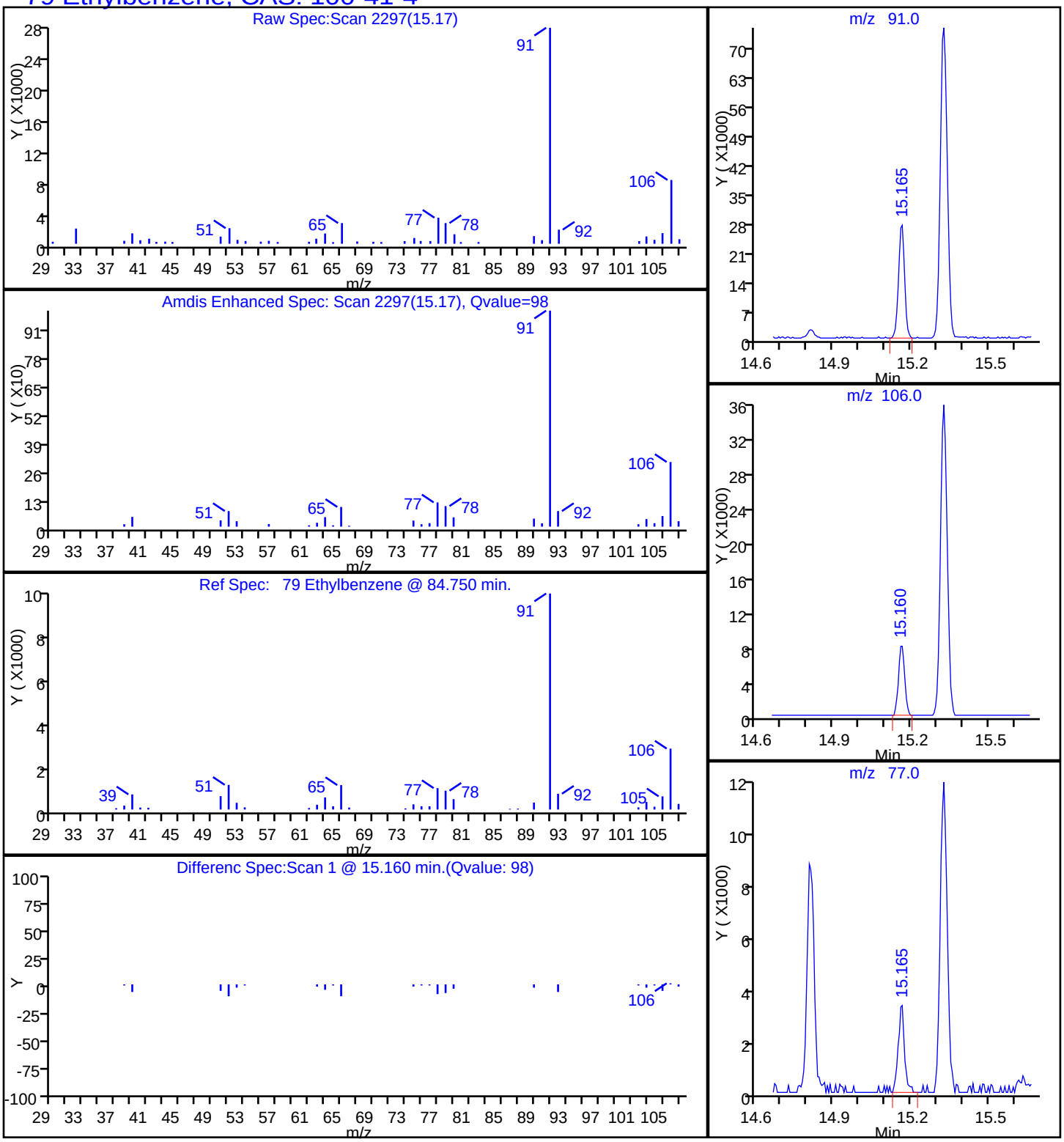
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Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

8 Dichlorodifluoromethane, CAS: 75-71-8



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D
Injection Date: 01-Sep-2016 18:56:30 Instrument ID: ME
Lims ID: 140-5720-A-9 Lab Sample ID: 140-5720-9
Client ID: SG-218
Operator ID: 007126 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.4600
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

79 Ethylbenzene, CAS: 100-41-4

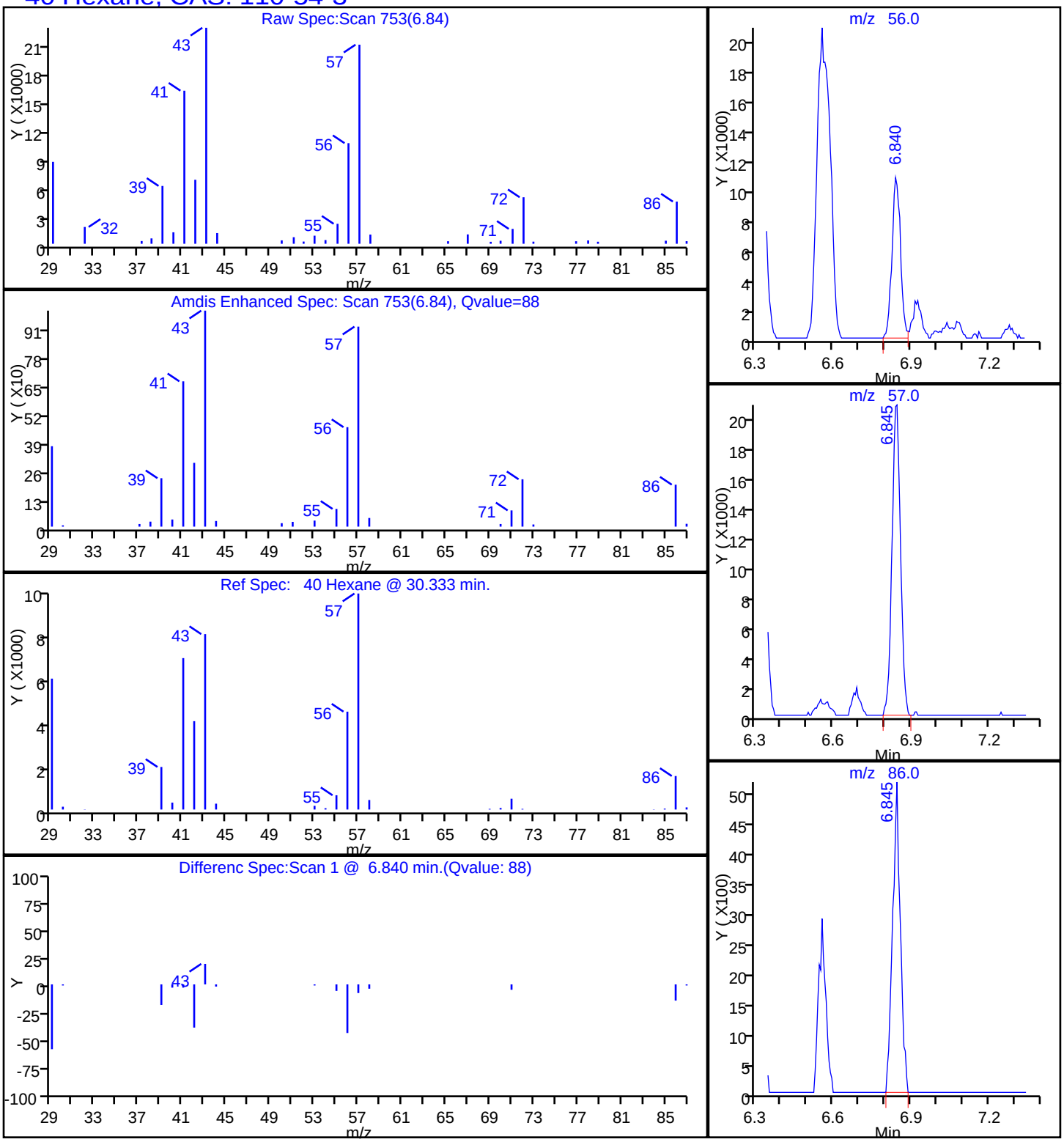


Report Date: 01-Sep-2016 19:47:35 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D				
Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

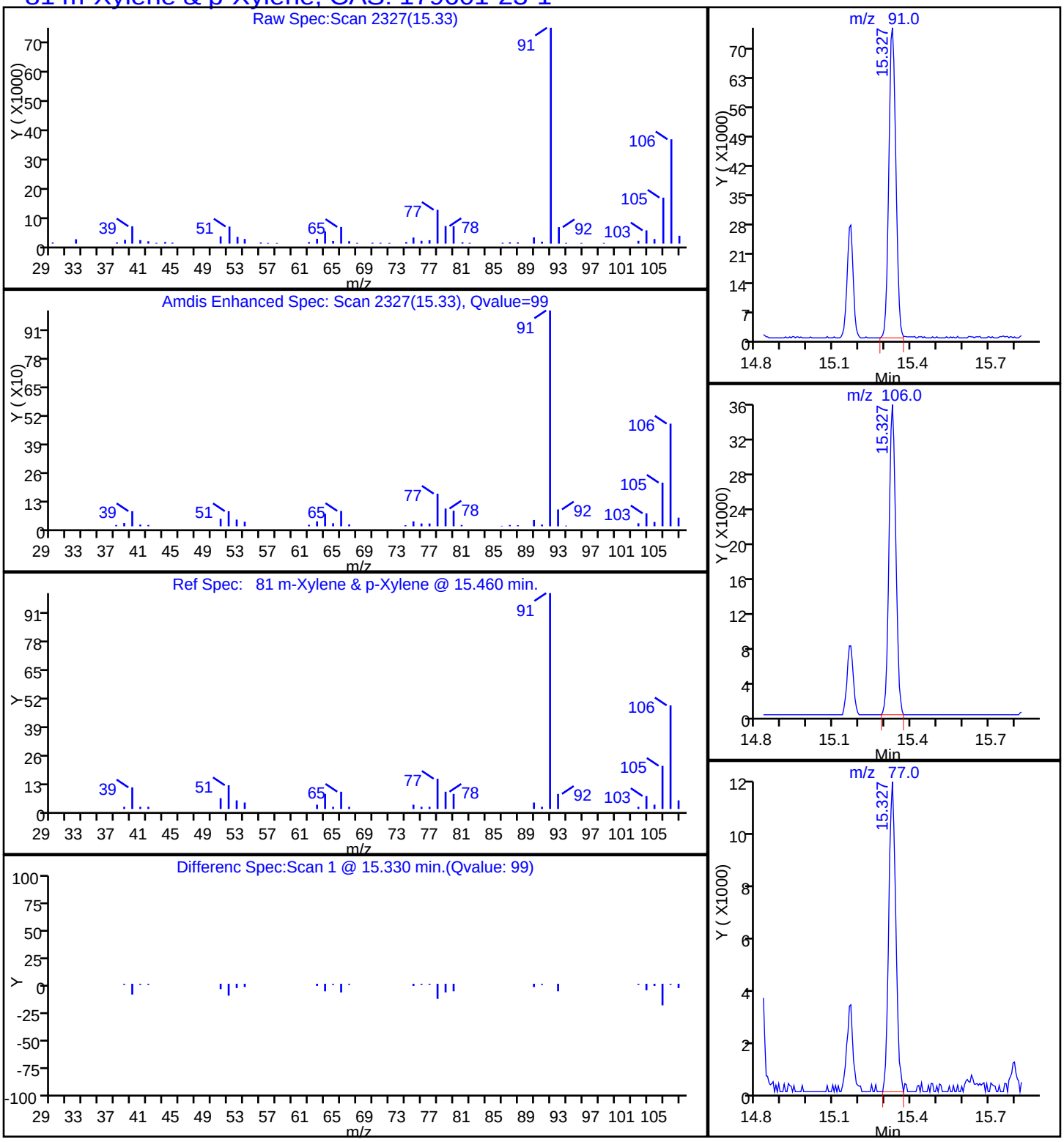
40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D				
Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

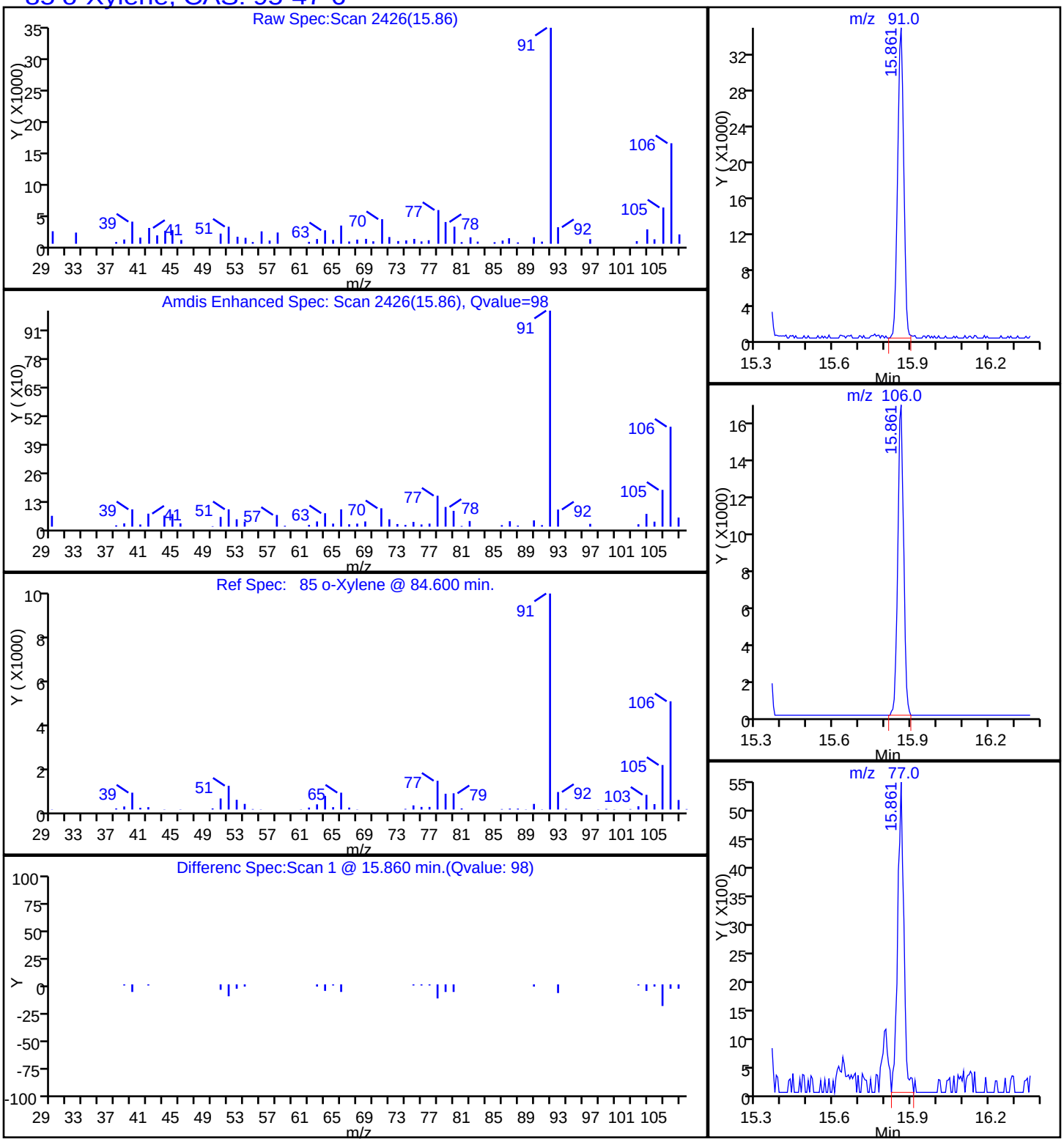
81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

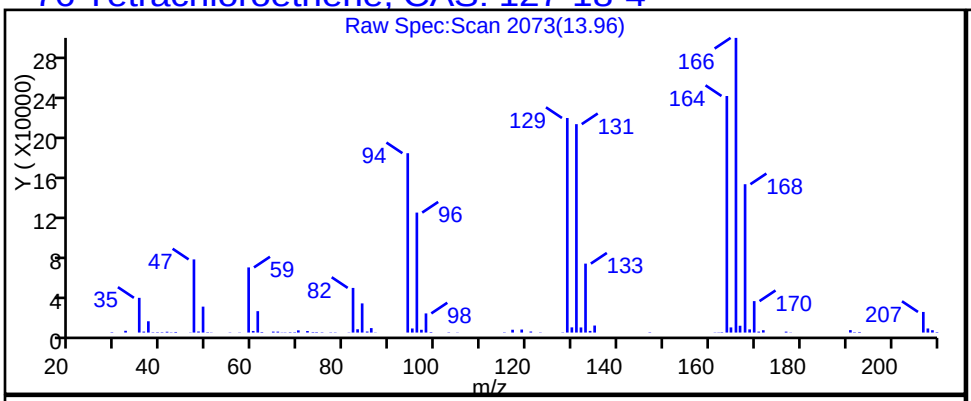
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Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

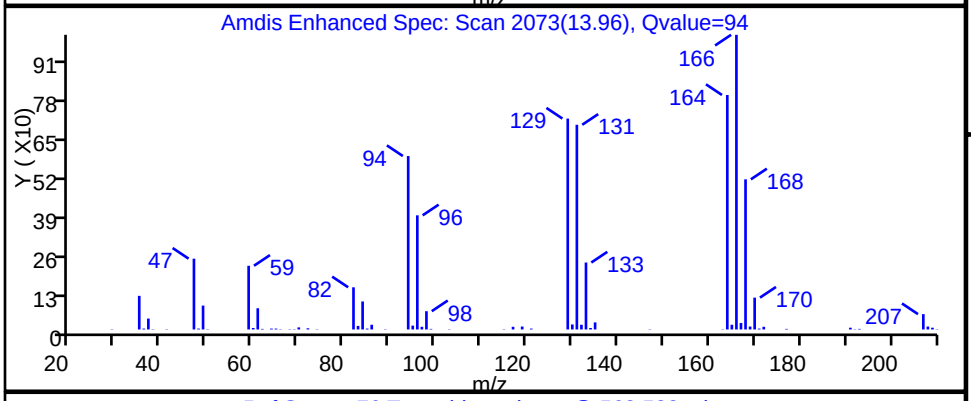
85 o-Xylene, CAS: 95-47-6

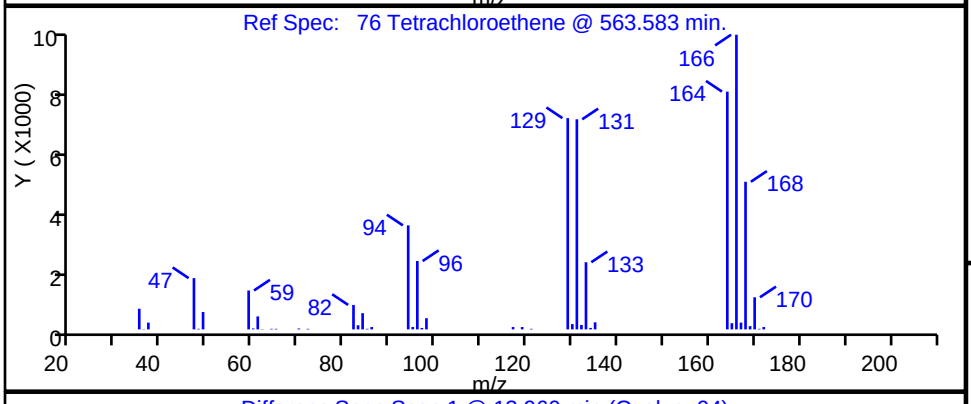


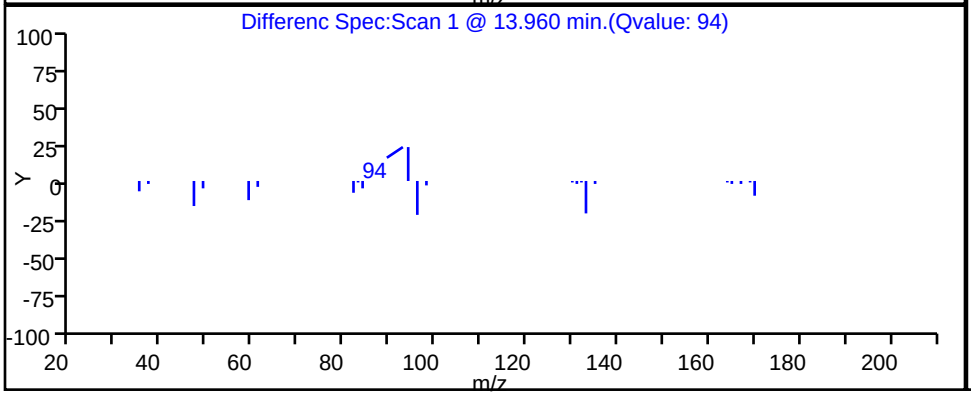
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D
Injection Date: 01-Sep-2016 18:56:30 Instrument ID: ME
Lims ID: 140-5720-A-9 Lab Sample ID: 140-5720-9
Client ID: SG-218
Operator ID: 007126 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.4600
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

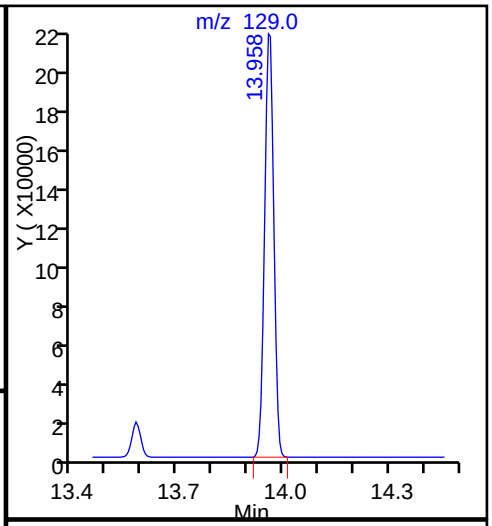
76 Tetrachloroethene, CAS: 127-18-4

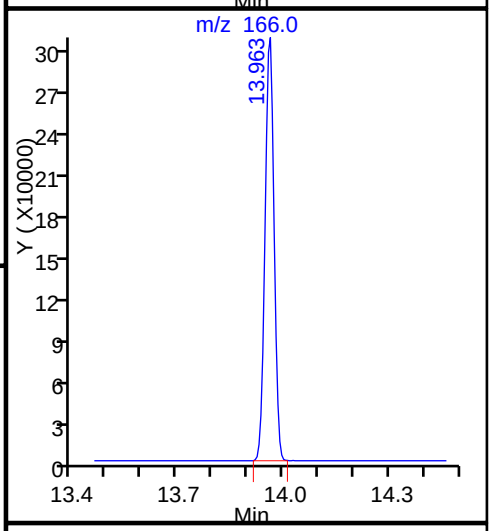


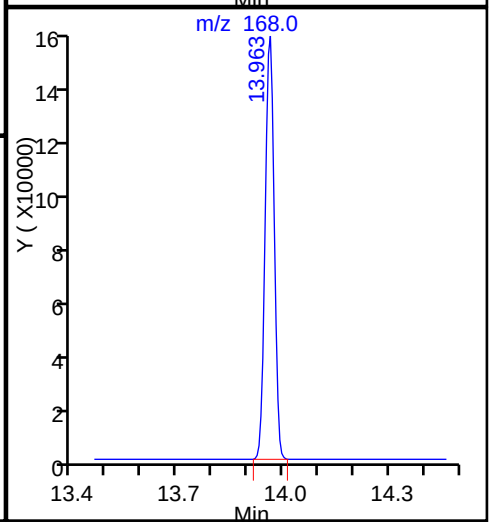








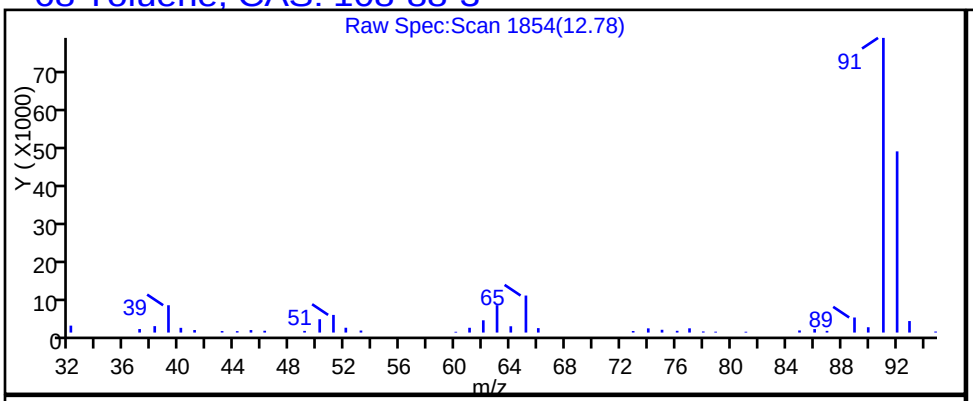


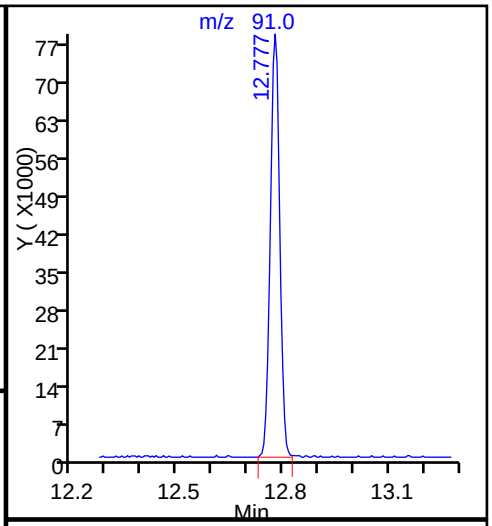


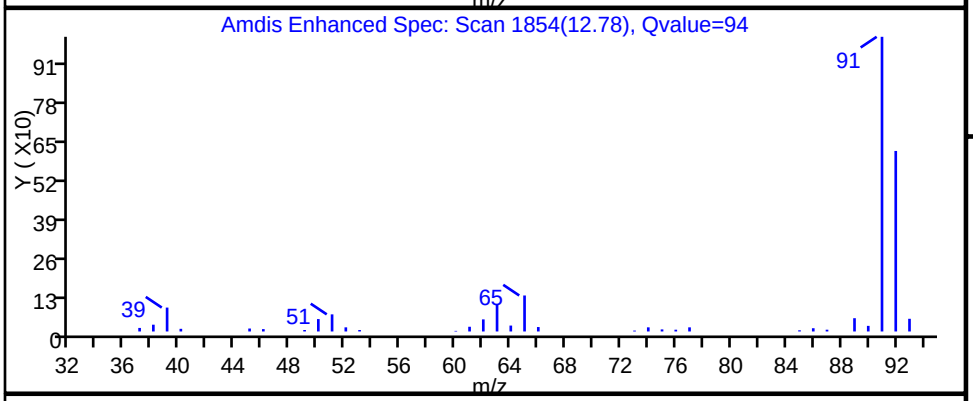
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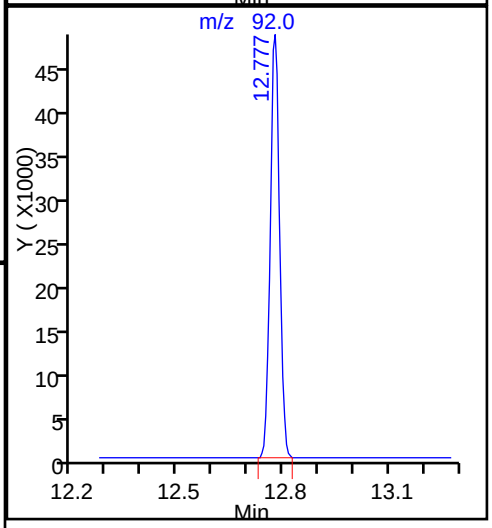
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D				
Injection Date:	01-Sep-2016 18:56:30	Instrument ID:	ME		
Lims ID:	140-5720-A-9	Lab Sample ID:	140-5720-9		
Client ID:	SG-218				
Operator ID:	007126	ALS Bottle#:	10	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.4600		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

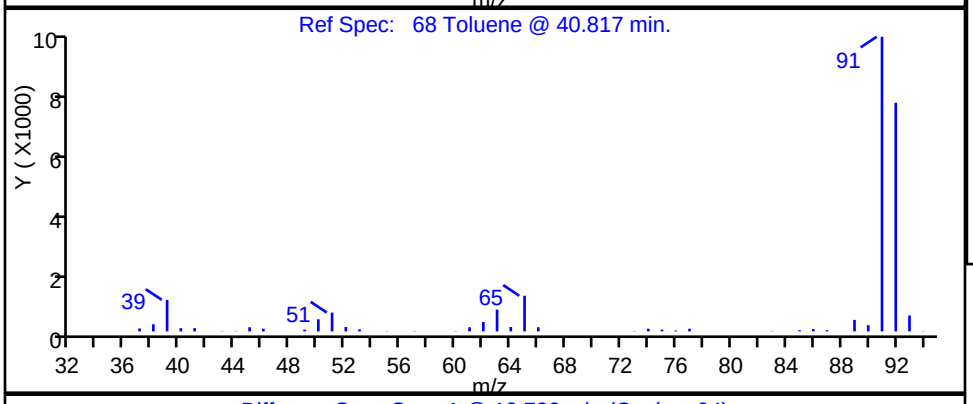
68 Toluene, CAS: 108-88-3

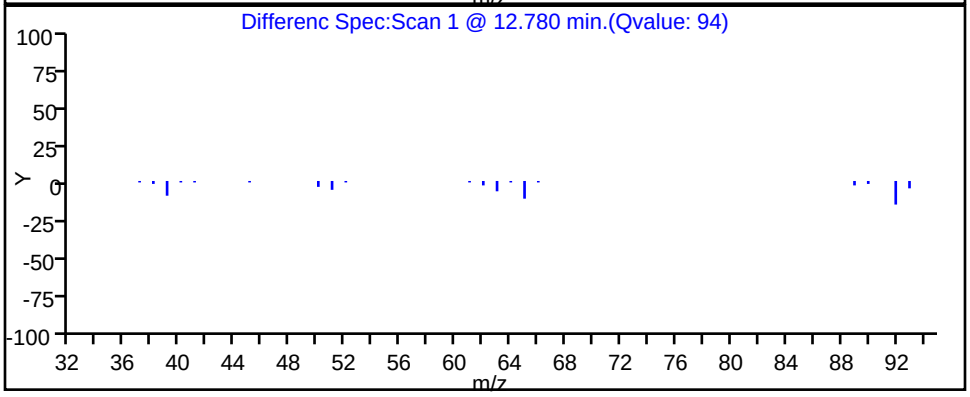






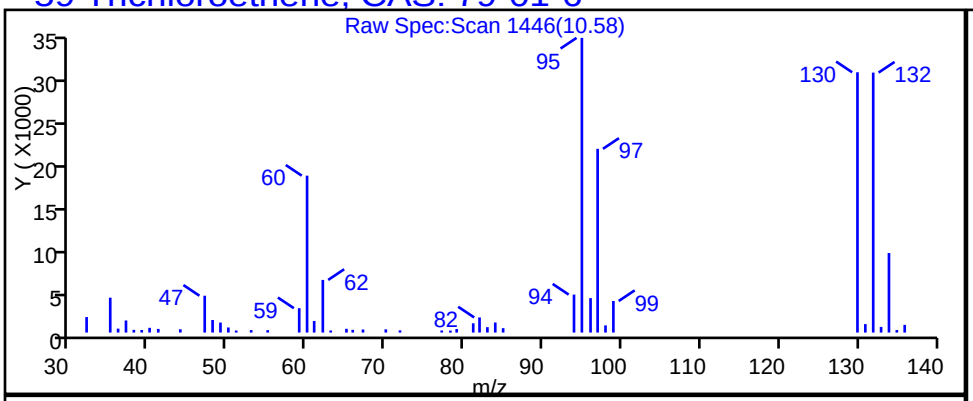


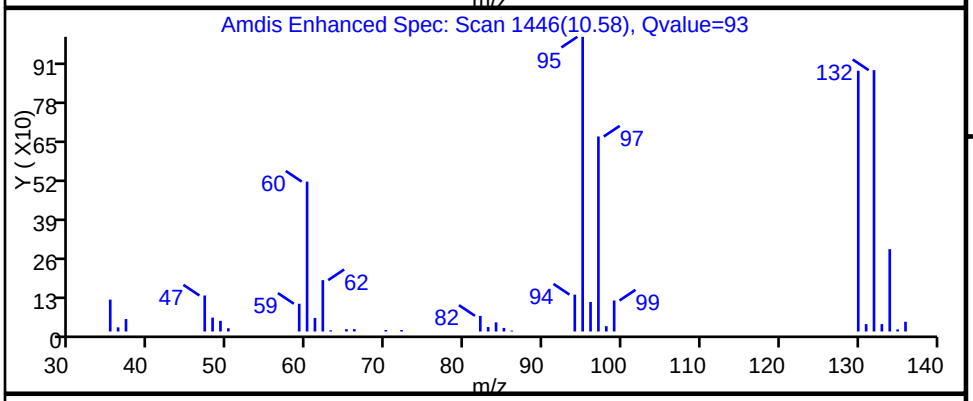


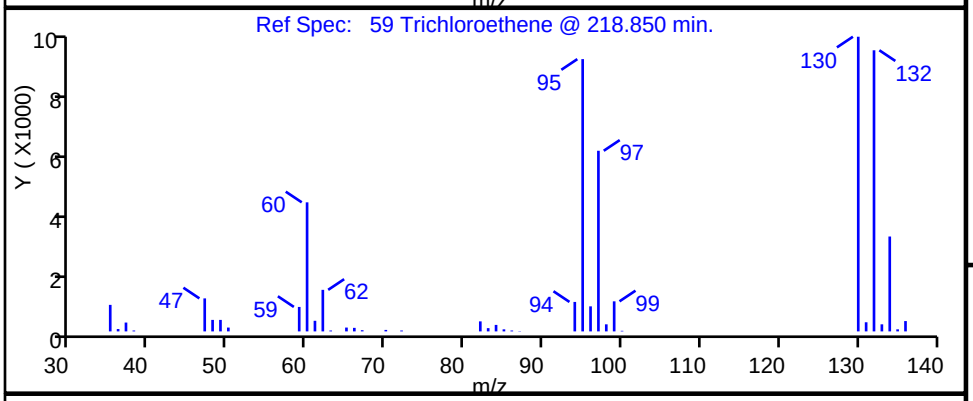


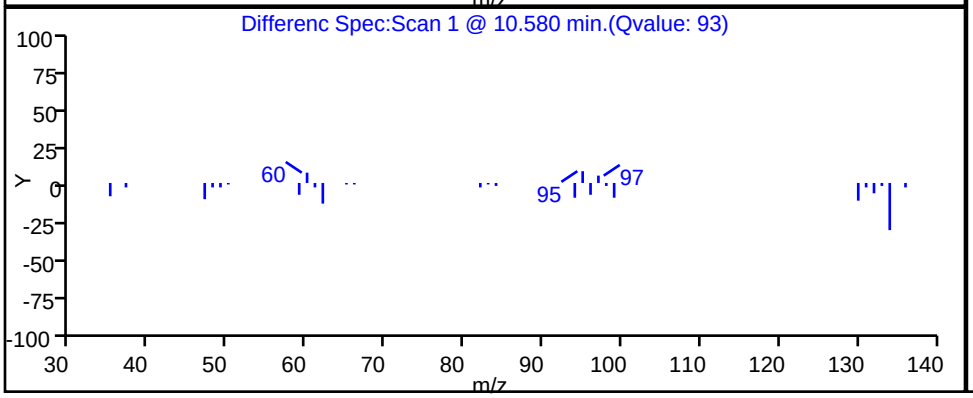
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P110.D
Injection Date: 01-Sep-2016 18:56:30 Instrument ID: ME
Lims ID: 140-5720-A-9 Lab Sample ID: 140-5720-9
Client ID: SG-218
Operator ID: 007126 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.4600
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

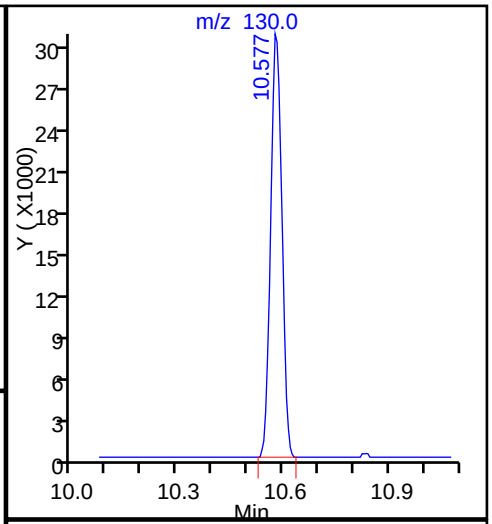
59 Trichloroethene, CAS: 79-01-6

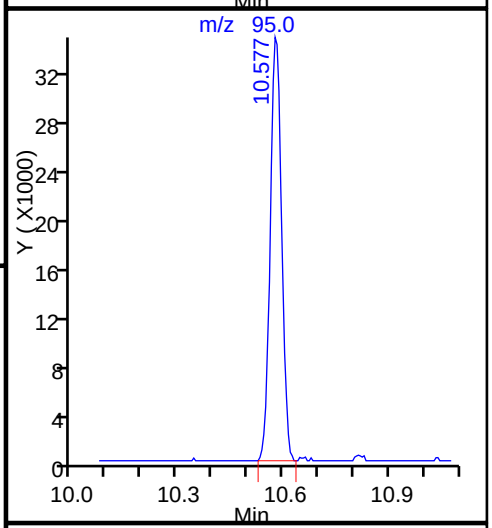


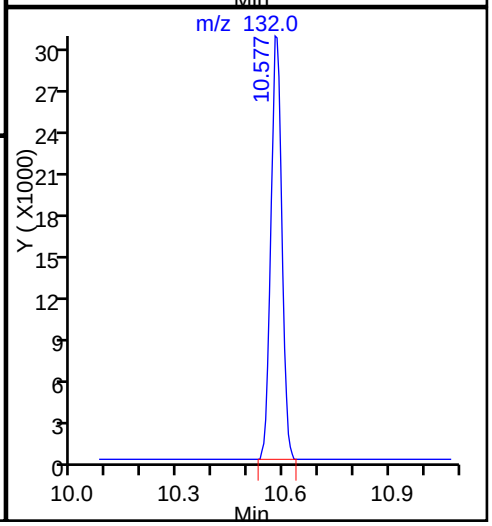












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 Lab Sample ID: 140-5720-10

Matrix: Air Lab File ID: EI01P111.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: Dilution Factor: 4.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	6.5		0.62	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.62	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.62	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.62	
75-34-3	1,1-Dichloroethane	98.96	0.99		0.62	
75-35-4	1,1-Dichloroethene	96.94	ND		0.62	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.62	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.62	
106-93-4	1,2-Dibromoethane	187.87	ND		0.62	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.62	
107-06-2	1,2-Dichloroethane	98.96	ND		0.62	
78-87-5	1,2-Dichloropropane	112.99	ND		0.62	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.62	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.62	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.62	
106-46-7	1,4-Dichlorobenzene	147.00	18		0.62	
123-91-1	1,4-Dioxane	88.11	ND		1.6	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.6	
78-93-3	2-Butanone	72.11	ND		2.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		1.6	
71-43-2	Benzene	78.11	1.7		0.62	
100-44-7	Benzyl chloride	126.58	ND		1.2	
75-27-4	Bromodichloromethane	163.83	5.9		0.62	
75-25-2	Bromoform	252.75	ND		0.62	
74-83-9	Bromomethane	94.94	ND		0.62	
56-23-5	Carbon tetrachloride	153.81	ND		0.31	
108-90-7	Chlorobenzene	112.56	ND		0.62	
75-00-3	Chloroethane	64.52	ND		0.62	
67-66-3	Chloroform	119.38	30		0.62	
74-87-3	Chloromethane	50.49	ND		1.6	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.62	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.62	
110-82-7	Cyclohexane	84.16	ND		1.6	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 Lab Sample ID: 140-5720-10

Matrix: Air Lab File ID: EI01P111.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: Dilution Factor: 4.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	2.0		0.62	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.62	
64-17-5	Ethanol	46.07	ND		16	
100-41-4	Ethylbenzene	106.17	1.3		0.62	
87-68-3	Hexachlorobutadiene	260.76	ND		0.62	
110-54-3	Hexane	86.17	3.0		1.6	
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.2	
75-09-2	Methylene Chloride	84.93	ND		1.6	
179601-23-1	m-Xylene & p-Xylene	106.17	5.2		0.62	
95-47-6	o-Xylene	106.17	2.0		0.62	
100-42-5	Styrene	104.15	ND		0.62	
75-65-0	t-Butyl alcohol	74.12	ND		2.5	
127-18-4	Tetrachloroethene	165.83	65		0.62	
108-88-3	Toluene	92.14	5.4		0.93	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.62	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.62	
79-01-6	Trichloroethene	131.39	12		0.31	
75-69-4	Trichlorofluoromethane	137.37	ND		0.62	
75-01-4	Vinyl chloride	62.50	ND		0.31	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 Lab Sample ID: 140-5720-10

Matrix: Air Lab File ID: EI01P111.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: Dilution Factor: 4.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	35		3.4	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		4.3	
79-00-5	1,1,2-Trichloroethane	133.41	ND		3.4	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		4.8	
75-34-3	1,1-Dichloroethane	98.96	4.0		2.5	
75-35-4	1,1-Dichloroethene	96.94	ND		2.5	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		4.6	
95-63-6	1,2,4-Trimethylbenzene	120.20	10		3.0	
106-93-4	1,2-Dibromoethane	187.87	ND		4.8	
95-50-1	1,2-Dichlorobenzene	147.00	ND		3.7	
107-06-2	1,2-Dichloroethane	98.96	ND		2.5	
78-87-5	1,2-Dichloropropane	112.99	ND		2.9	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		4.3	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.0	
541-73-1	1,3-Dichlorobenzene	147.00	ND		3.7	
106-46-7	1,4-Dichlorobenzene	147.00	110		3.7	
123-91-1	1,4-Dioxane	88.11	ND		5.6	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		7.2	
78-93-3	2-Butanone	72.11	ND		7.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		6.3	
71-43-2	Benzene	78.11	5.5		2.0	
100-44-7	Benzyl chloride	126.58	ND		6.4	
75-27-4	Bromodichloromethane	163.83	39		4.2	
75-25-2	Bromoform	252.75	ND		6.4	
74-83-9	Bromomethane	94.94	ND		2.4	
56-23-5	Carbon tetrachloride	153.81	ND		2.0	
108-90-7	Chlorobenzene	112.56	ND		2.9	
75-00-3	Chloroethane	64.52	ND		1.6	
67-66-3	Chloroform	119.38	150		3.0	
74-87-3	Chloromethane	50.49	ND		3.2	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		2.5	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		2.8	
110-82-7	Cyclohexane	84.16	ND		5.3	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 Lab Sample ID: 140-5720-10

Matrix: Air Lab File ID: EI01P111.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: Dilution Factor: 4.65

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	17		5.3	
75-71-8	Dichlorodifluoromethane	120.91	ND		3.1	
64-17-5	Ethanol	46.07	ND		29	
100-41-4	Ethylbenzene	106.17	5.6		2.7	
87-68-3	Hexachlorobutadiene	260.76	ND		6.6	
110-54-3	Hexane	86.17	11		5.5	
1634-04-4	Methyl tert-butyl ether	88.15	ND		4.5	
75-09-2	Methylene Chloride	84.93	ND		5.4	
179601-23-1	m-Xylene & p-Xylene	106.17	22		2.7	
95-47-6	o-Xylene	106.17	8.8		2.7	
100-42-5	Styrene	104.15	ND		2.6	
75-65-0	t-Butyl alcohol	74.12	ND		7.5	
127-18-4	Tetrachloroethene	165.83	440		4.2	
108-88-3	Toluene	92.14	20		3.5	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		2.5	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		2.8	
79-01-6	Trichloroethene	131.39	65		1.7	
75-69-4	Trichlorofluoromethane	137.37	ND		3.5	
75-01-4	Vinyl chloride	62.50	ND		0.79	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P111.D
Lims ID: 140-5720-A-10
Client ID: SG-216
Sample Type: Client
Inject. Date: 01-Sep-2016 19:43:30 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 4.6500
Sample Info: 140-0003369-014
Misc. Info.: 140-5720-a-10@4.65
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 12:20:58 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:20:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.563	7.568	-0.005	79	275968	4.00	
* 2 1,4-Difluorobenzene	114	9.806	9.811	-0.005	95	1329442	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1254335	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.482	16.487	-0.005	87	1049576	4.09	
8 Dichlorodifluoromethane	85	2.947	2.946	0.001	99	19688	0.0678	
9 Chloromethane	52	3.098	3.097	0.001	95	2309	0.1239	
16 Chloroethane	64	3.691	3.696	-0.005	92	1019	0.0257	
20 Trichlorofluoromethane	101	4.171	4.165	0.006	99	16629	0.0592	
28 2-Methyl-2-propanol	59	4.893	4.877	0.016	41	3329	0.0291	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.942	0.005	92	10737	0.0592	
31 Methylene Chloride	84	5.109	5.103	0.006	79	15852	0.1831	
37 1,1-Dichloroethane	63	6.274	6.279	-0.005	99	19561	0.1275	
39 2-Butanone (MEK)	72	6.840	6.834	0.006	74	7831	0.1947	
40 Hexane	56	6.845	6.840	0.005	90	21029	0.3901	
42 cis-1,2-Dichloroethene	96	7.239	7.244	-0.005	96	2890	0.0313	
44 Chloroform	83	7.579	7.584	-0.005	97	882296	3.84	
47 1,1,1-Trichloroethane	97	8.593	8.598	-0.005	94	214633	0.8324	
50 Cyclohexane	69	9.191	9.191	-0.005	46	4449	0.0988	
51 Benzene	78	9.202	9.202	0.000	95	60476	0.2219	
56 Isooctane	57	10.043	10.037	0.006	92	49061	0.1549	
59 Trichloroethene	130	10.577	10.582	-0.005	93	184992	1.55	
61 Dichlorobromomethane	83	10.830	10.835	-0.005	97	174460	0.7550	
65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	88	11688	0.1094	
68 Toluene	91	12.777	12.777	0.000	94	210424	0.6994	
74 Chlorodibromomethane	129	13.581	13.586	-0.006	97	49668	0.2556	
76 Tetrachloroethene	129	13.958	13.963	-0.005	94	976525	8.34	
79 Ethylbenzene	91	15.166	15.166	0.000	98	67318	0.1667	
81 m-Xylene & p-Xylene	91	15.328	15.333	-0.005	99	209801	0.6664	
84 Styrene	104	15.802	15.802	0.000	96	10366	0.0511	
85 o-Xylene	91	15.861	15.861	0.000	97	86231	0.2610	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	91	13630	0.0712	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
96 1,2,4-Trimethylbenzene	105	17.727	17.732	-0.005	97	97409	0.2747	
100 1,4-Dichlorobenzene	146	18.105	18.110	-0.005	91	472651	2.26	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

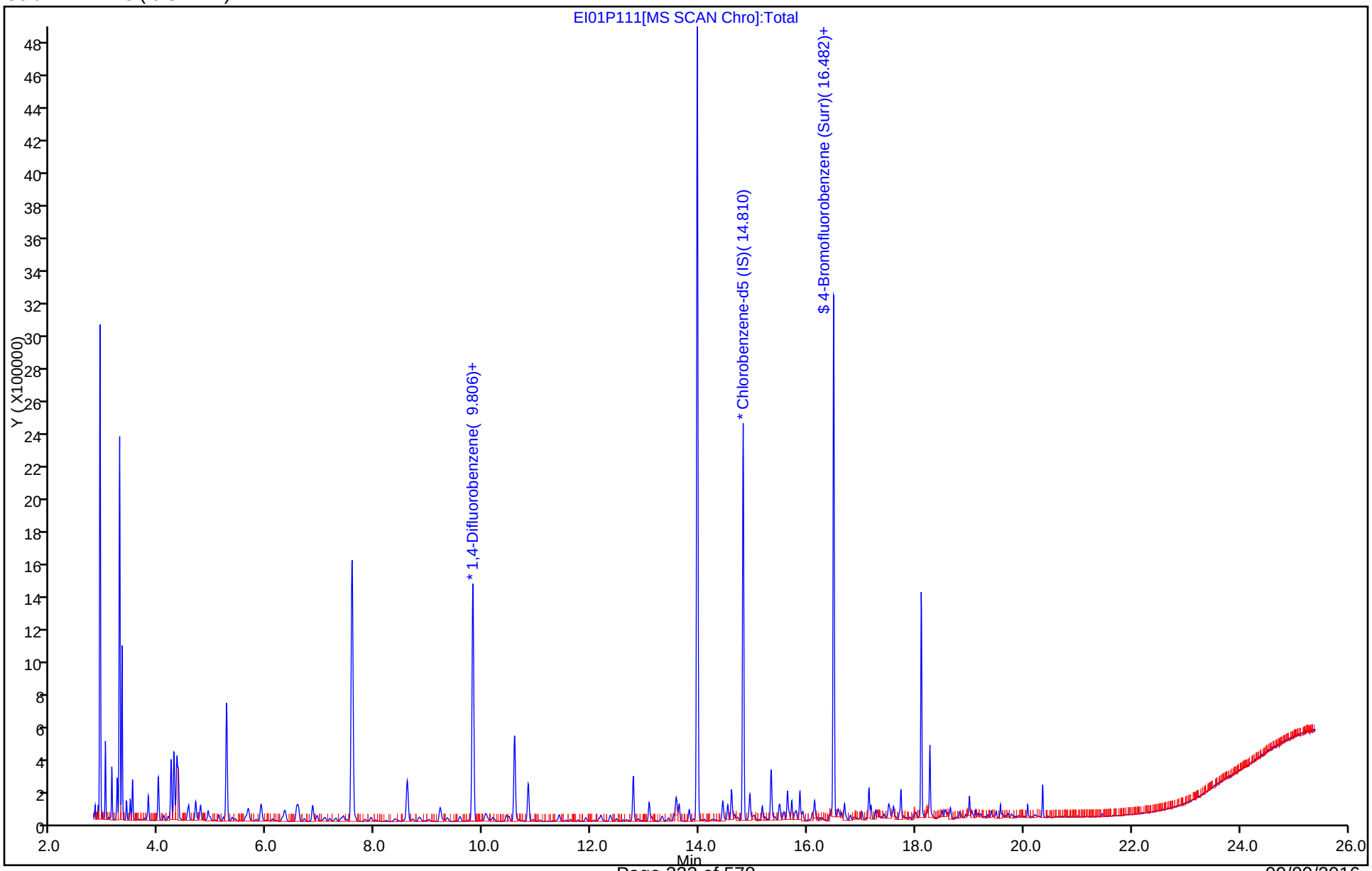
Report Date: 02-Sep-2016 12:21:00 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P111.D

Injection Date:	01-Sep-2016 19:43:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10	Worklist Smp#:	14
Client ID:	SG-216				
Purge Vol:	500.000 mL	Dil. Factor:	4.6500	ALS Bottle#:	11
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

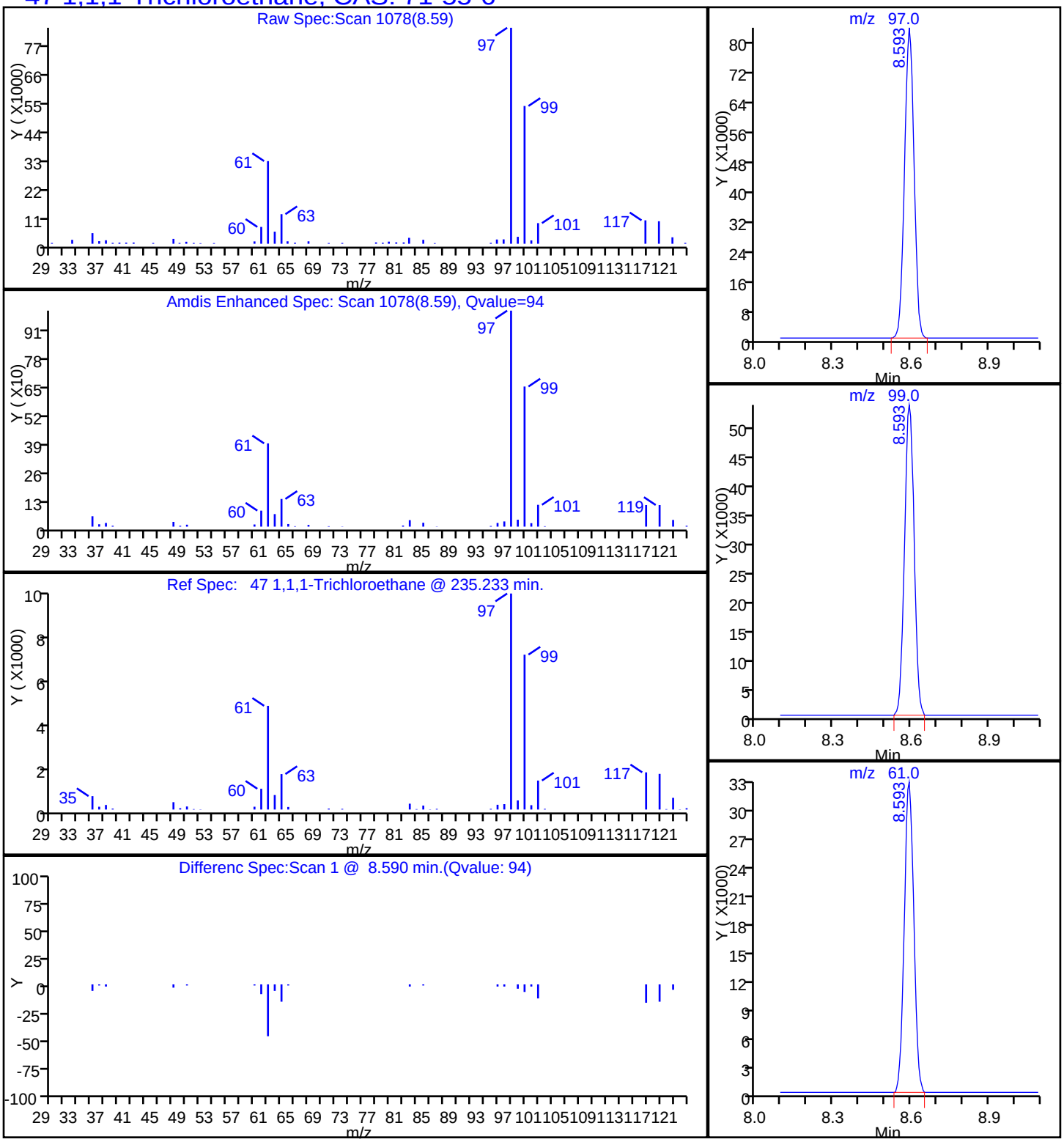
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Lims ID:	140-5720-A-10				
Client ID:	SG-216				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 19:43:30	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500		
Sample Info:	140-0003369-014				
Misc. Info.:	140-5720-a-10@4.65				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 12:20:58	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
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Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:20:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.09	102.23

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P111.D
Injection Date: 01-Sep-2016 19:43:30 Instrument ID: ME
Lims ID: 140-5720-A-10 Lab Sample ID: 140-5720-10
Client ID: SG-216
Operator ID: 007126 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 4.6500
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

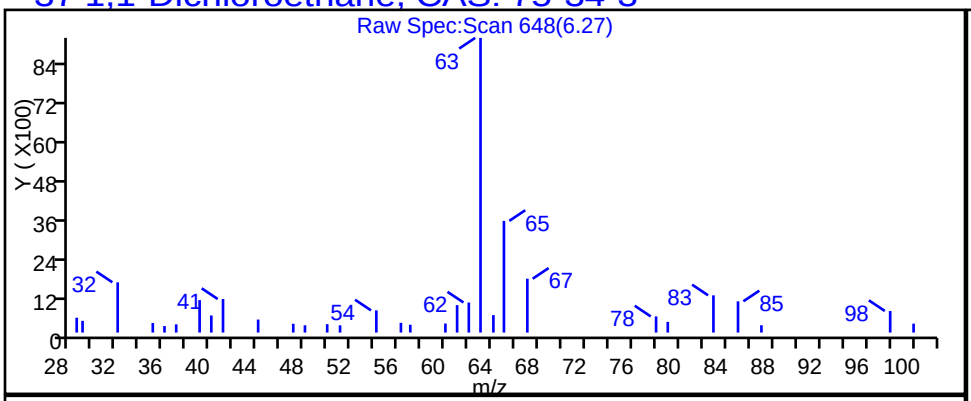
47 1,1,1-Trichloroethane, CAS: 71-55-6

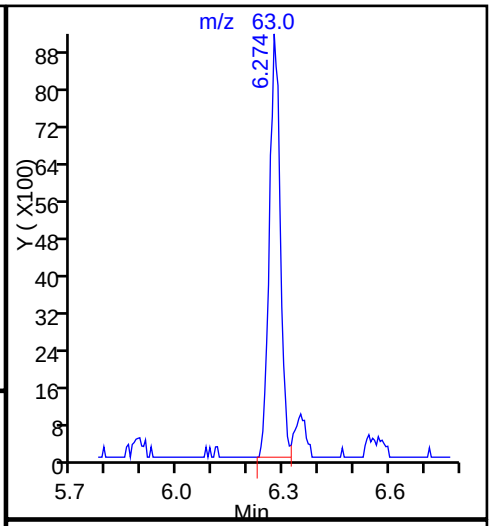


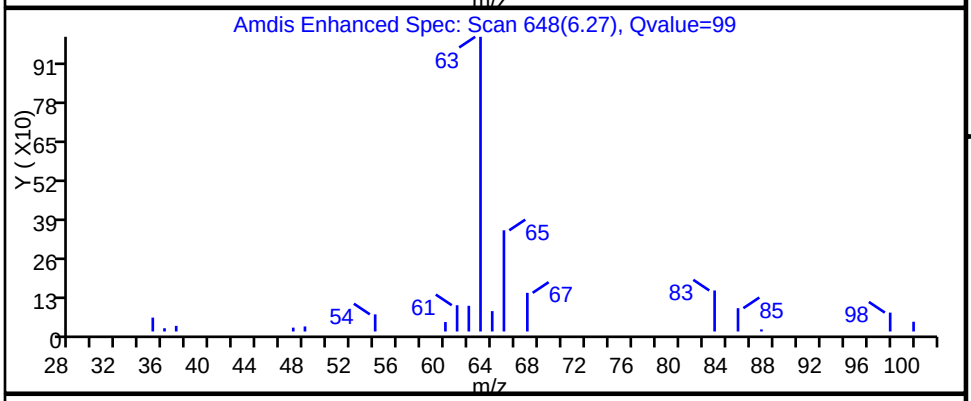
TestAmerica Knoxville

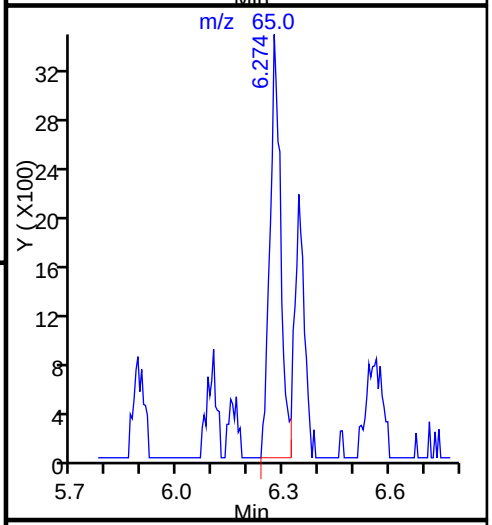
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Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10		
Client ID:	SG-216				
Operator ID:	007126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

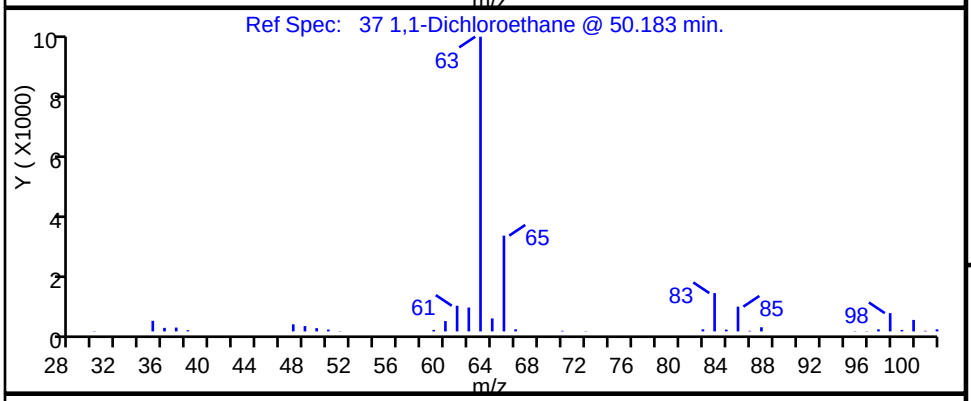
37 1,1-Dichloroethane, CAS: 75-34-3

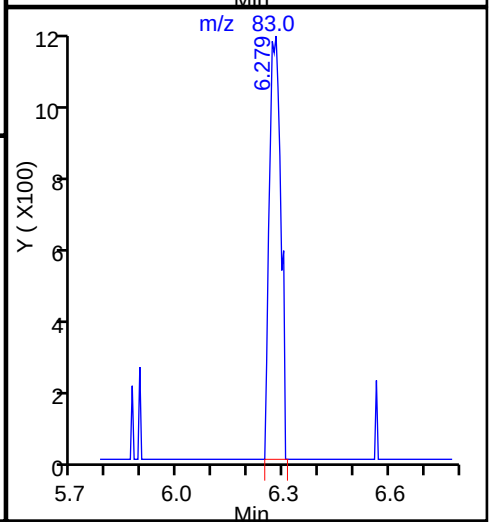


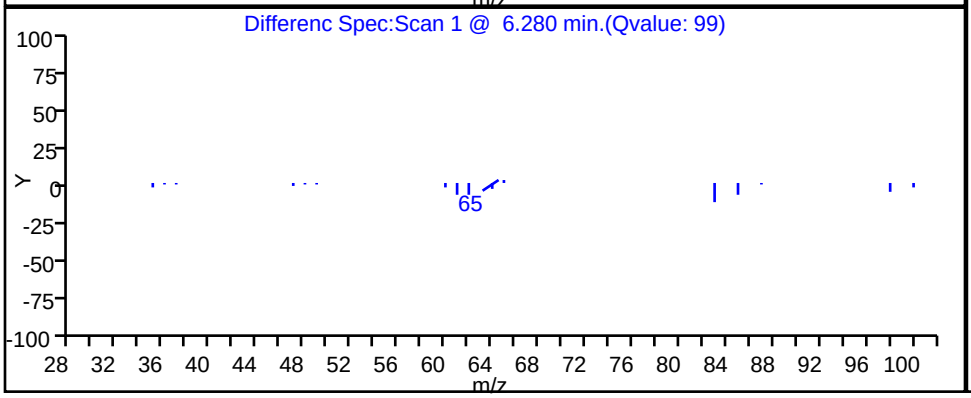








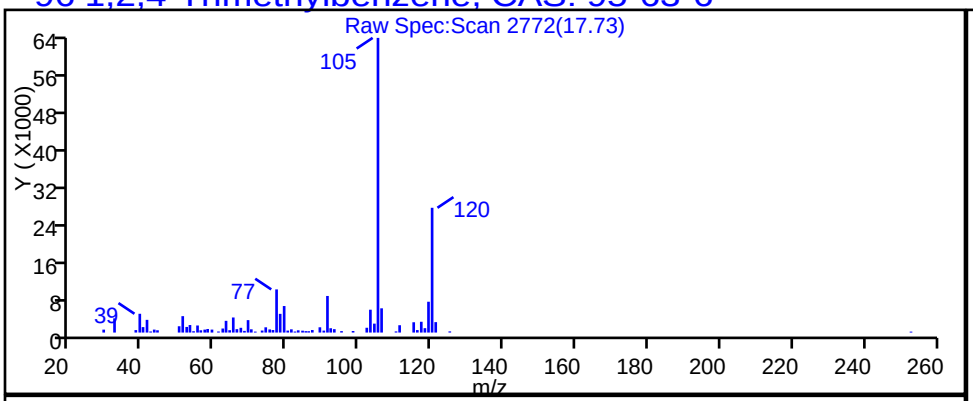


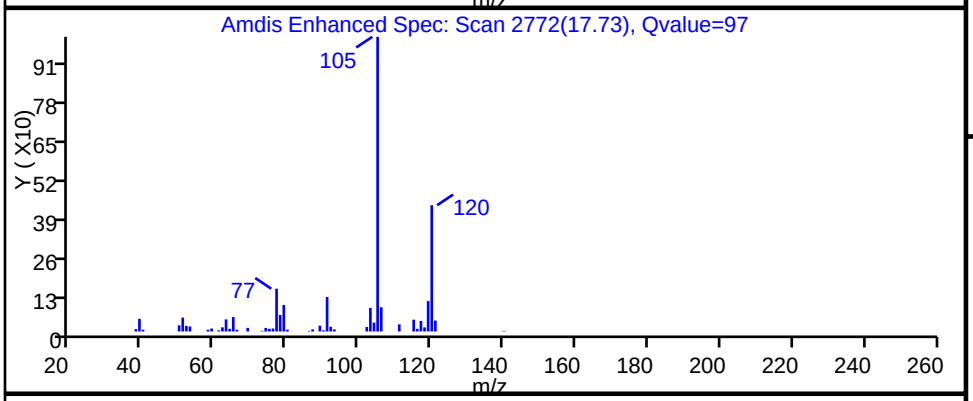


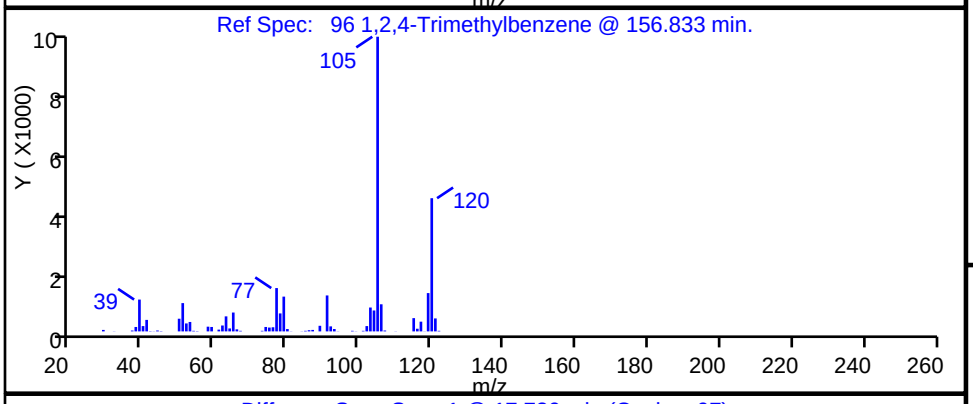
TestAmerica Knoxville

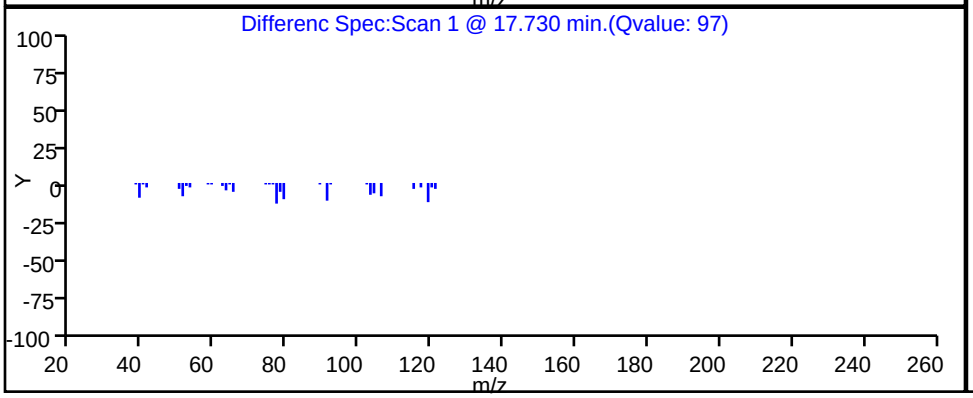
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Injection Date:	01-Sep-2016 19:43:30	Instrument ID:	ME
Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10
Client ID:	SG-216		
Operator ID:	007126	ALS Bottle#:	11 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

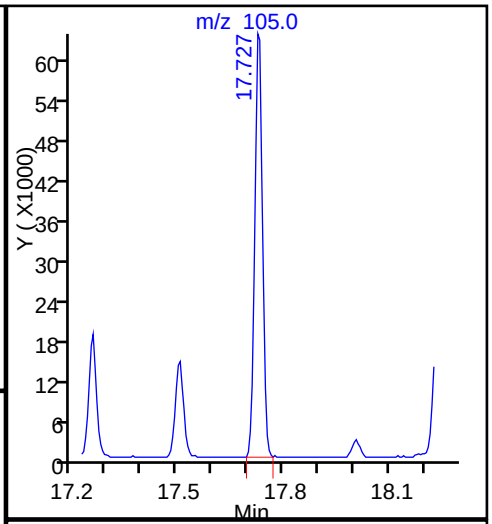
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

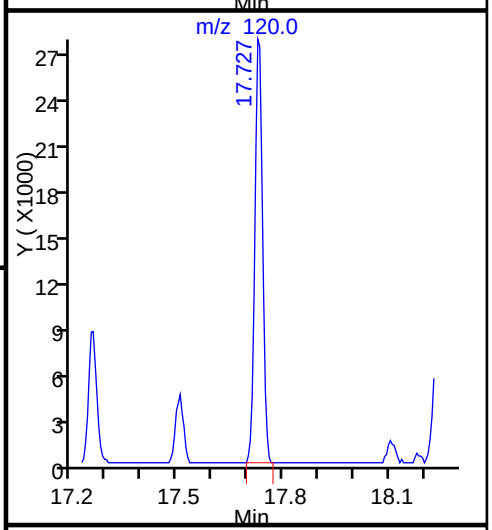


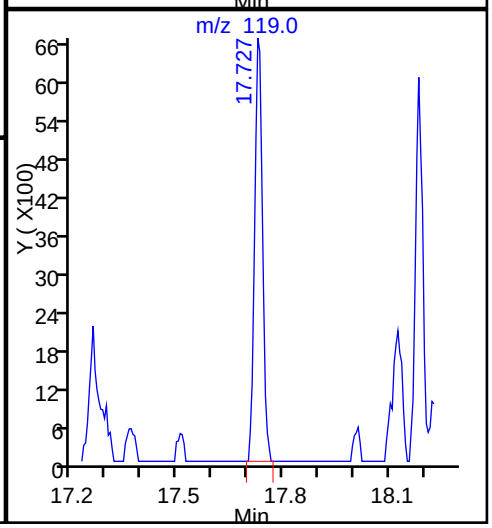










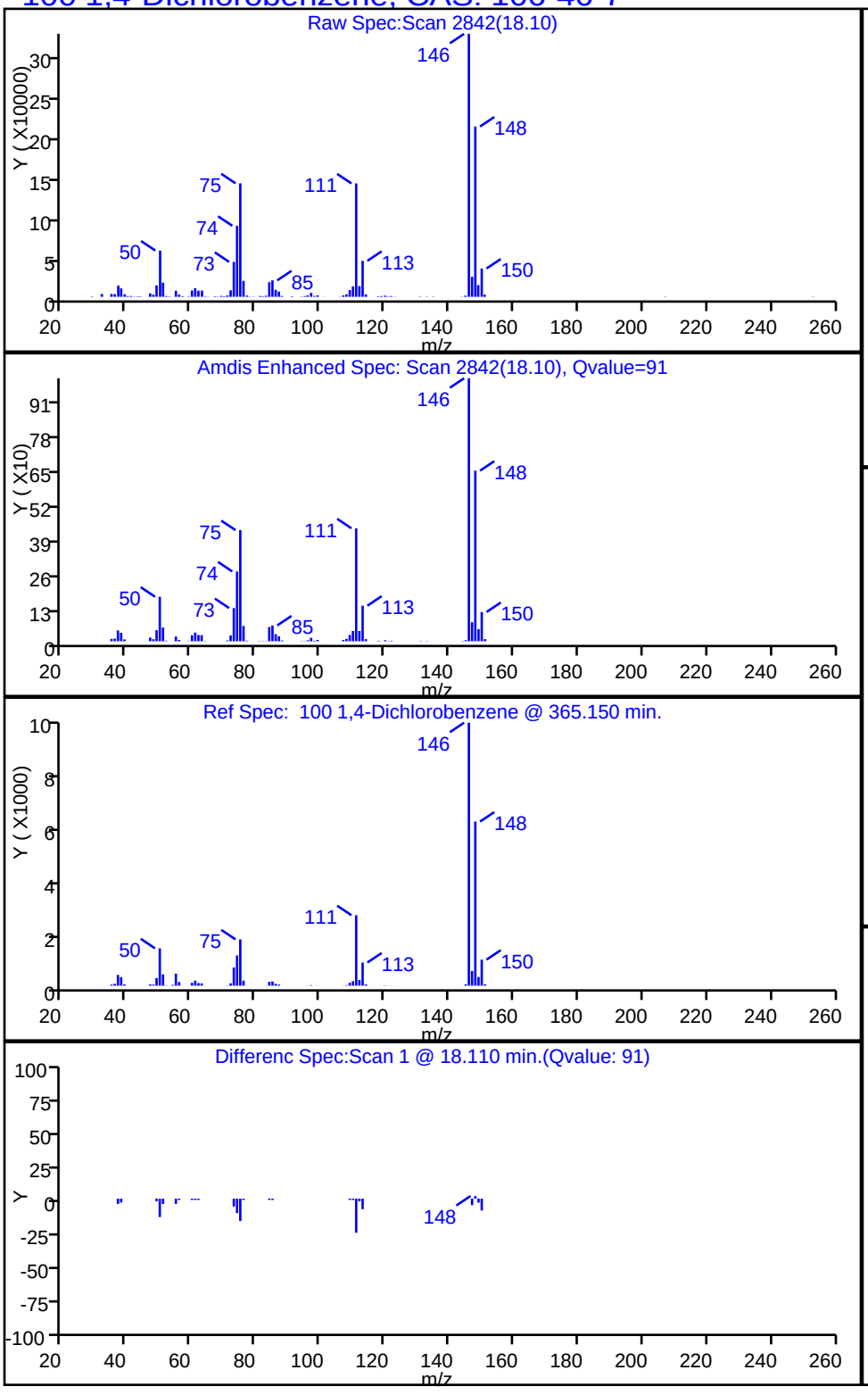


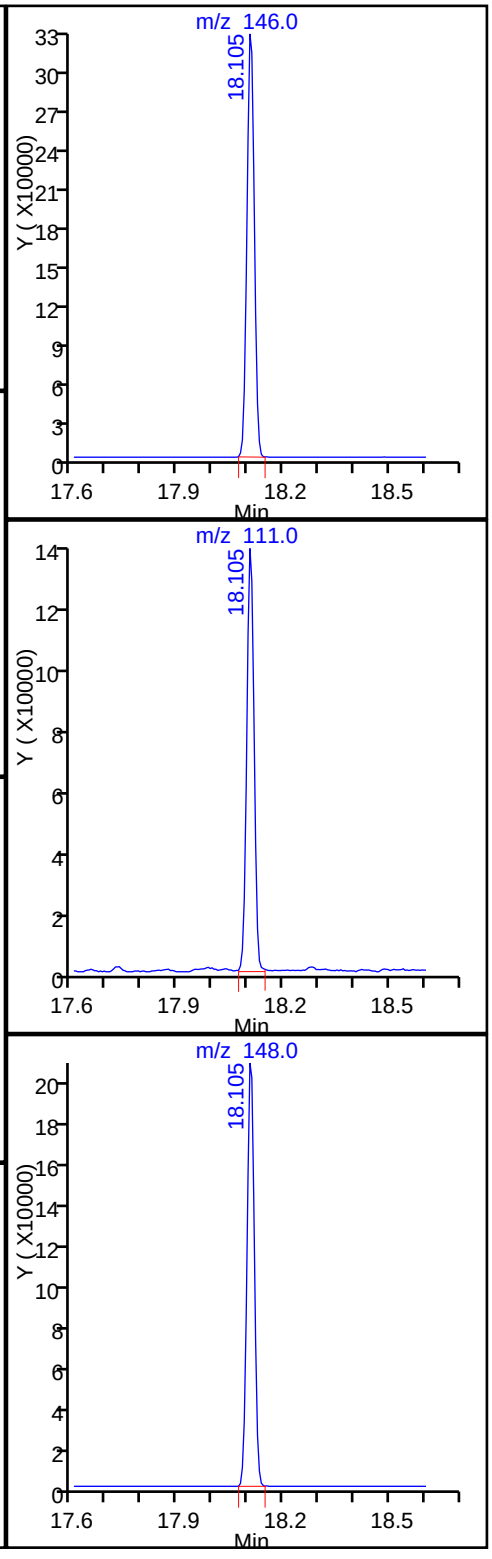
Report Date: 02-Sep-2016 12:21:02 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P111.D				
Injection Date:	01-Sep-2016 19:43:30	Instrument ID:	ME		
Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10		
Client ID:	SG-216				
Operator ID:	007126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

100 1,4-Dichlorobenzene, CAS: 106-46-7

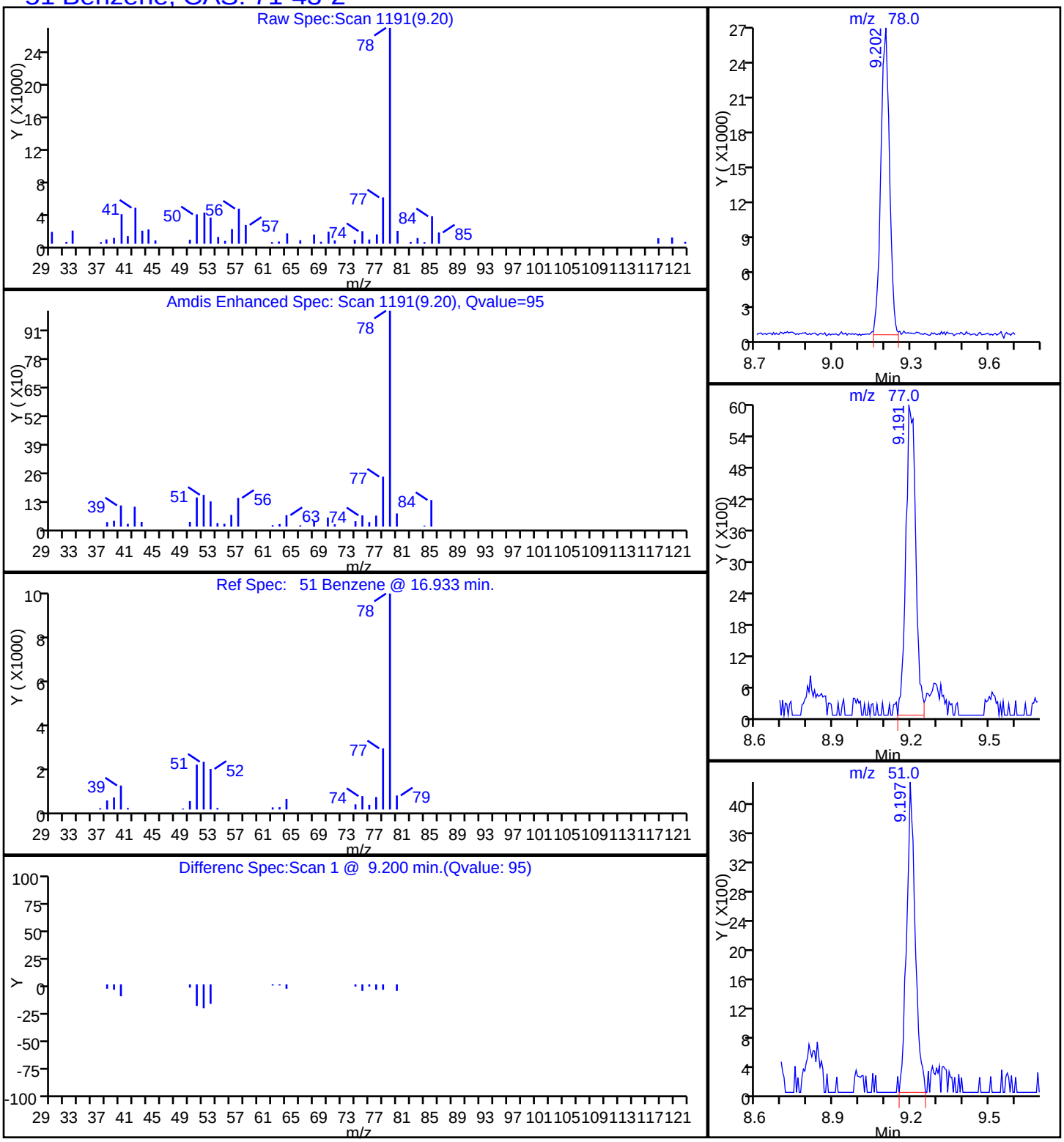




TestAmerica Knoxville

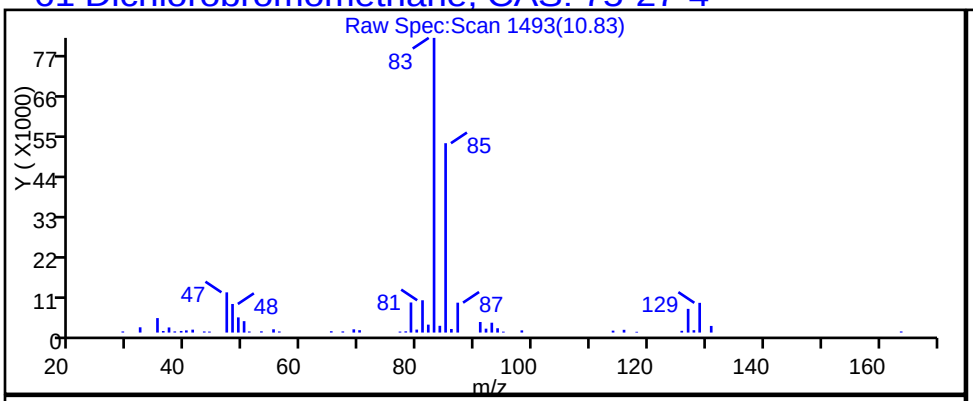
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Injection Date:	01-Sep-2016 19:43:30	Instrument ID:	ME
Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10
Client ID:	SG-216		
Operator ID:	007126	ALS Bottle#:	11 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

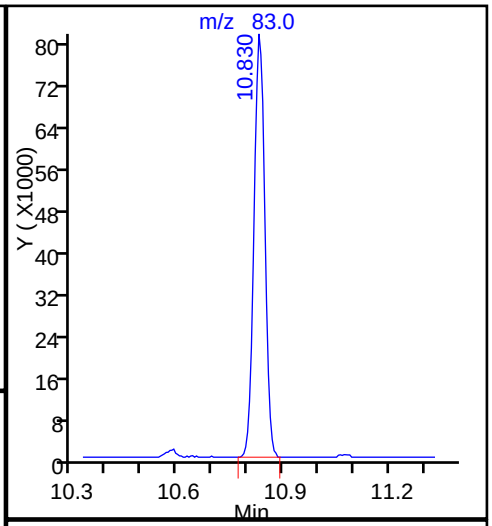
51 Benzene, CAS: 71-43-2

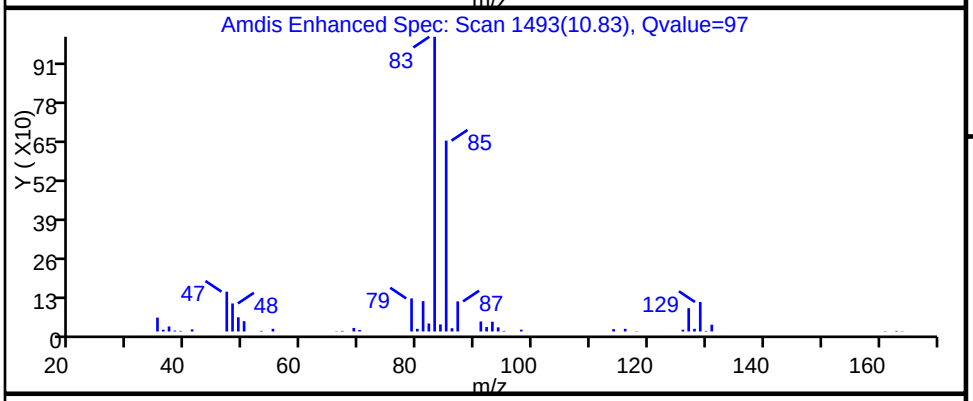


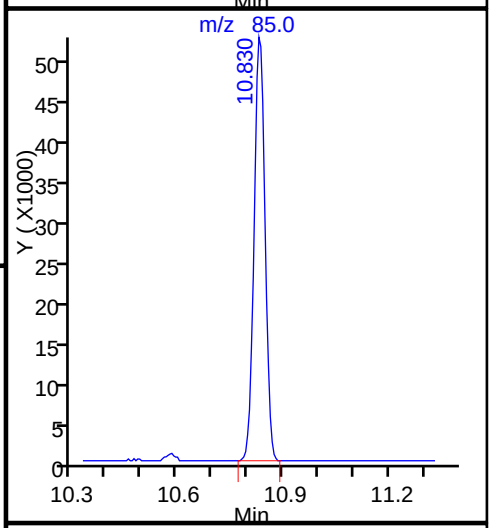
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Injection Date: 01-Sep-2016 19:43:30 Instrument ID: ME
Lims ID: 140-5720-A-10 Lab Sample ID: 140-5720-10
Client ID: SG-216
Operator ID: 007126 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 4.6500
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

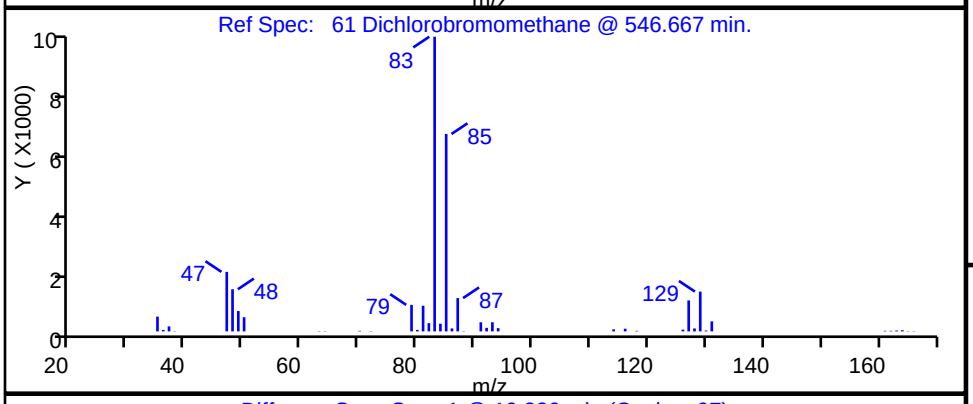
61 Dichlorobromomethane, CAS: 75-27-4

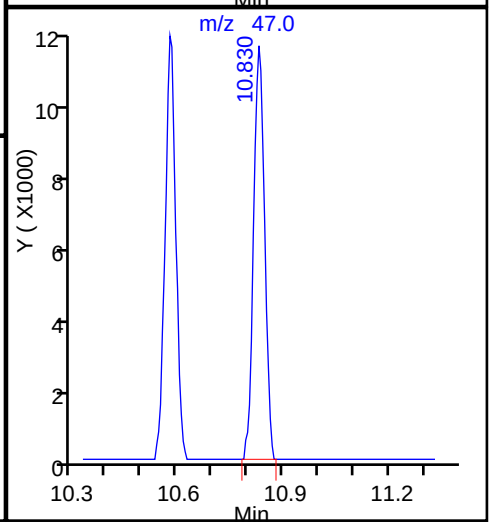


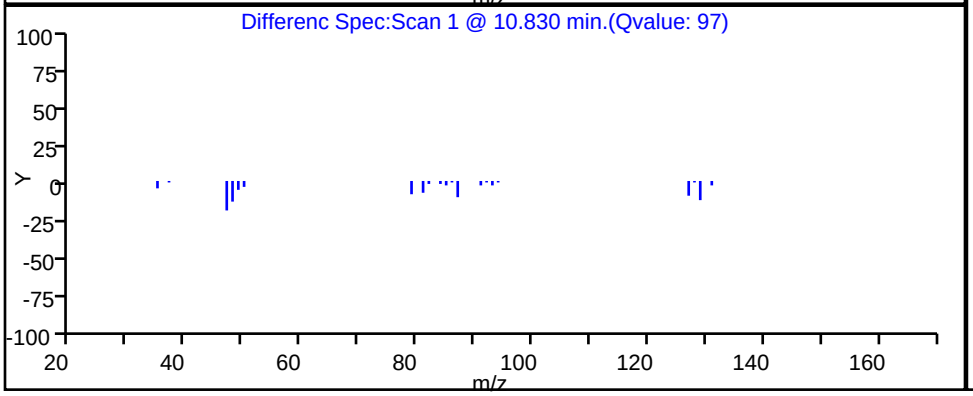






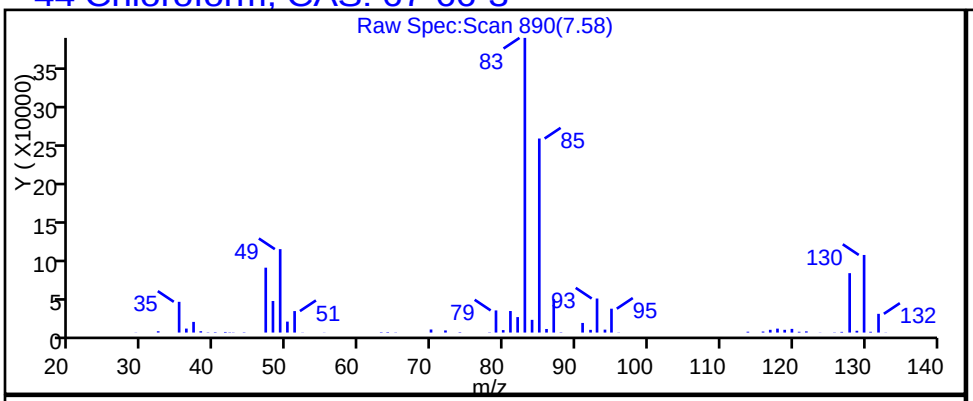


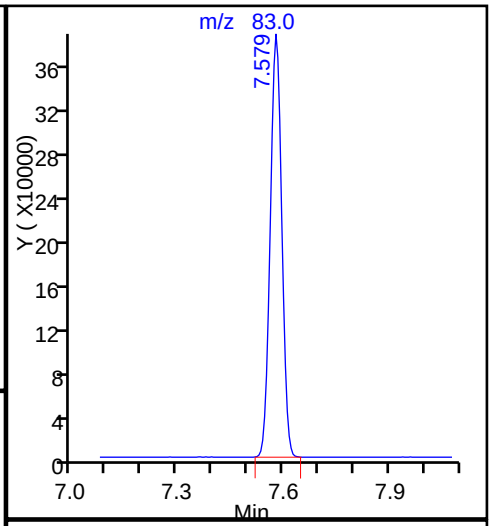


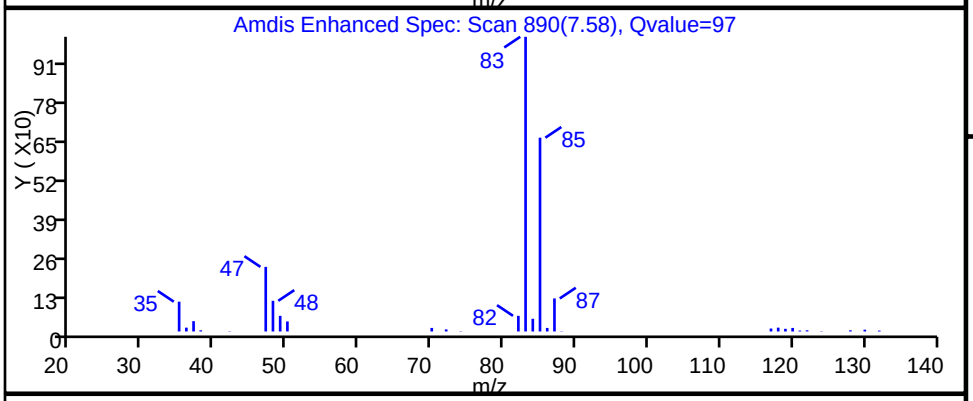


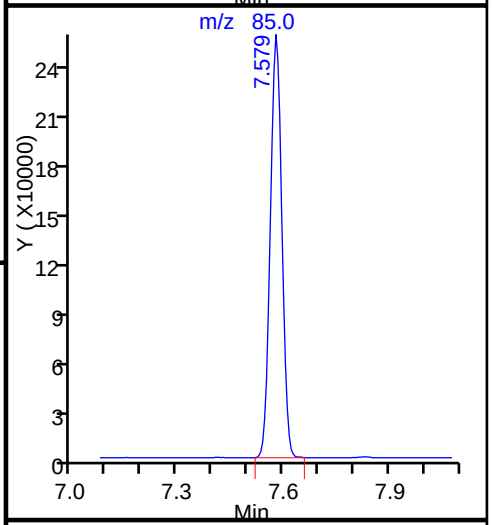
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Injection Date: 01-Sep-2016 19:43:30 Instrument ID: ME
Lims ID: 140-5720-A-10 Lab Sample ID: 140-5720-10
Client ID: SG-216
Operator ID: 007126 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 4.6500
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

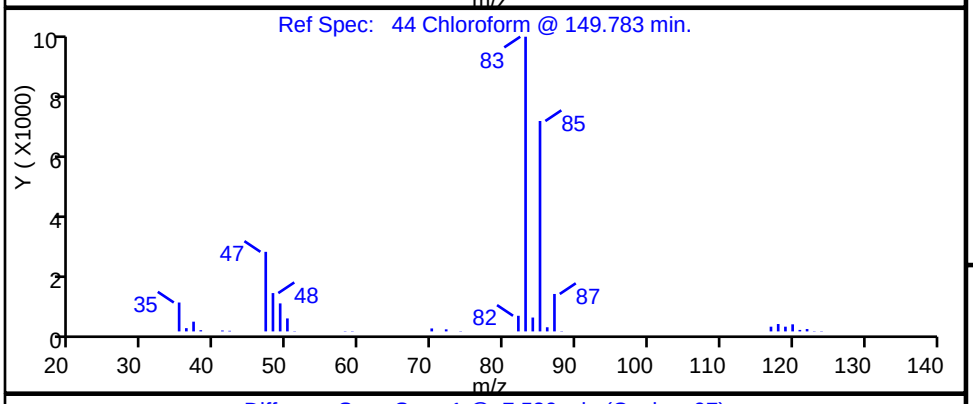
44 Chloroform, CAS: 67-66-3

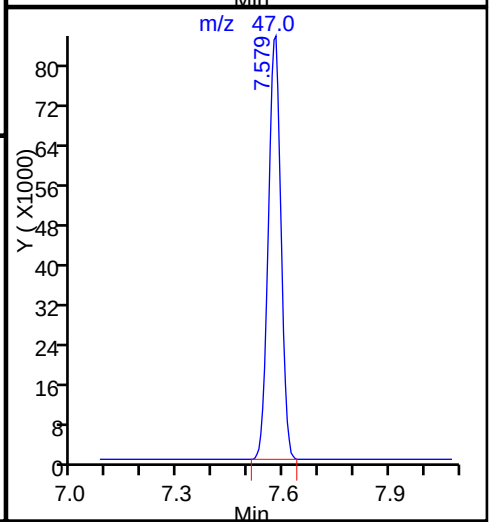


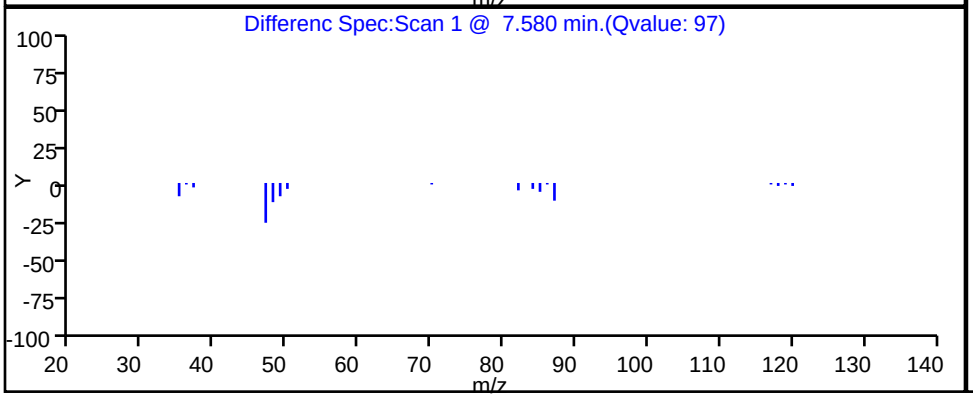






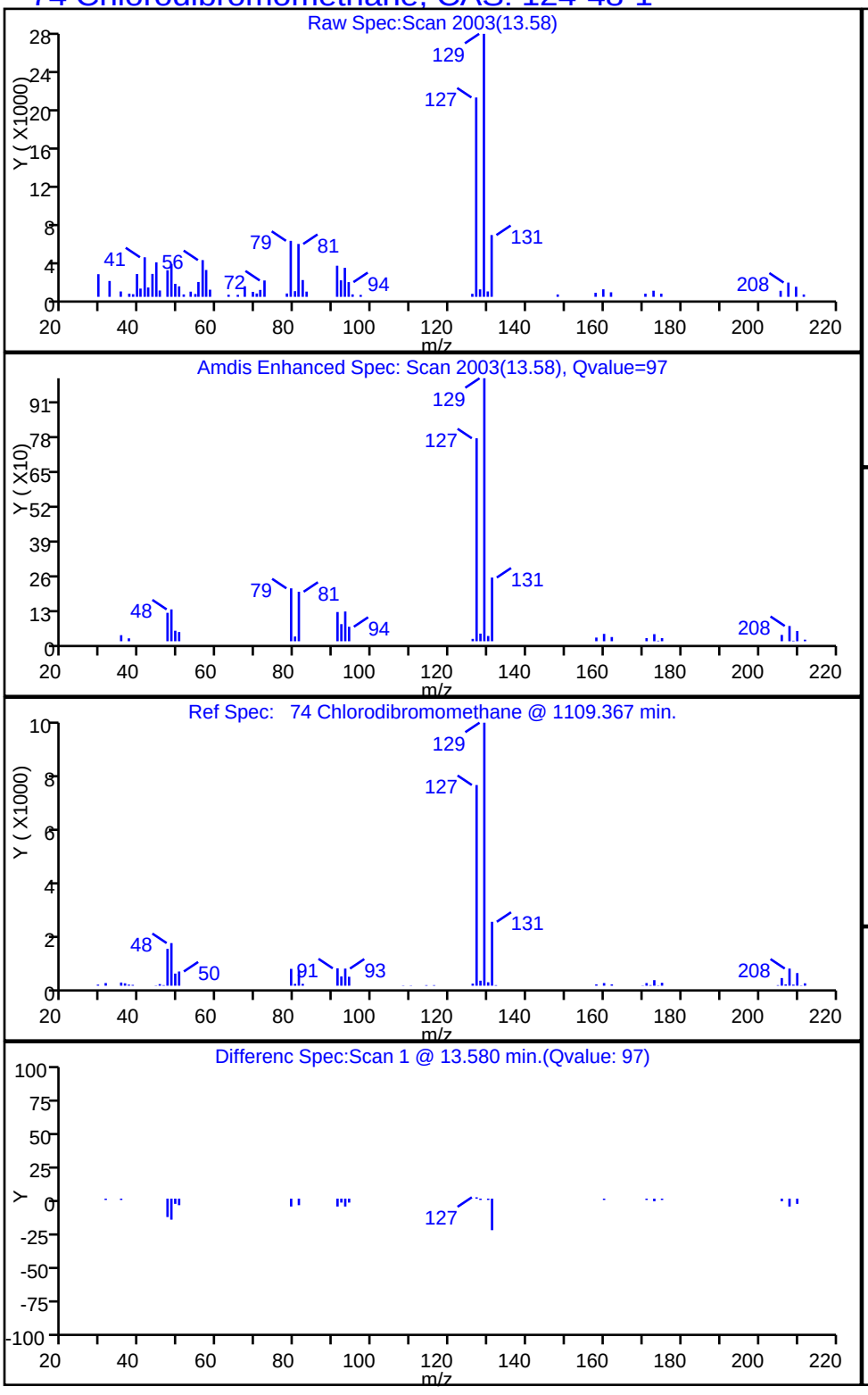


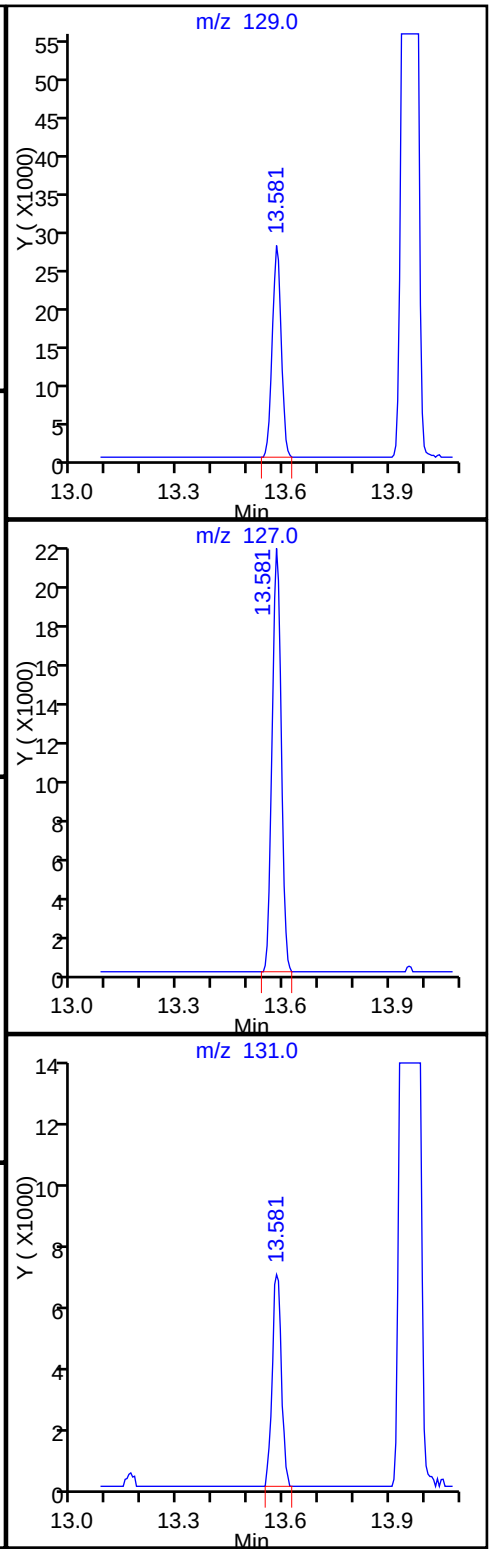




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Injection Date: 01-Sep-2016 19:43:30 Instrument ID: ME
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Client ID: SG-216
Operator ID: 007126 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 4.6500
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

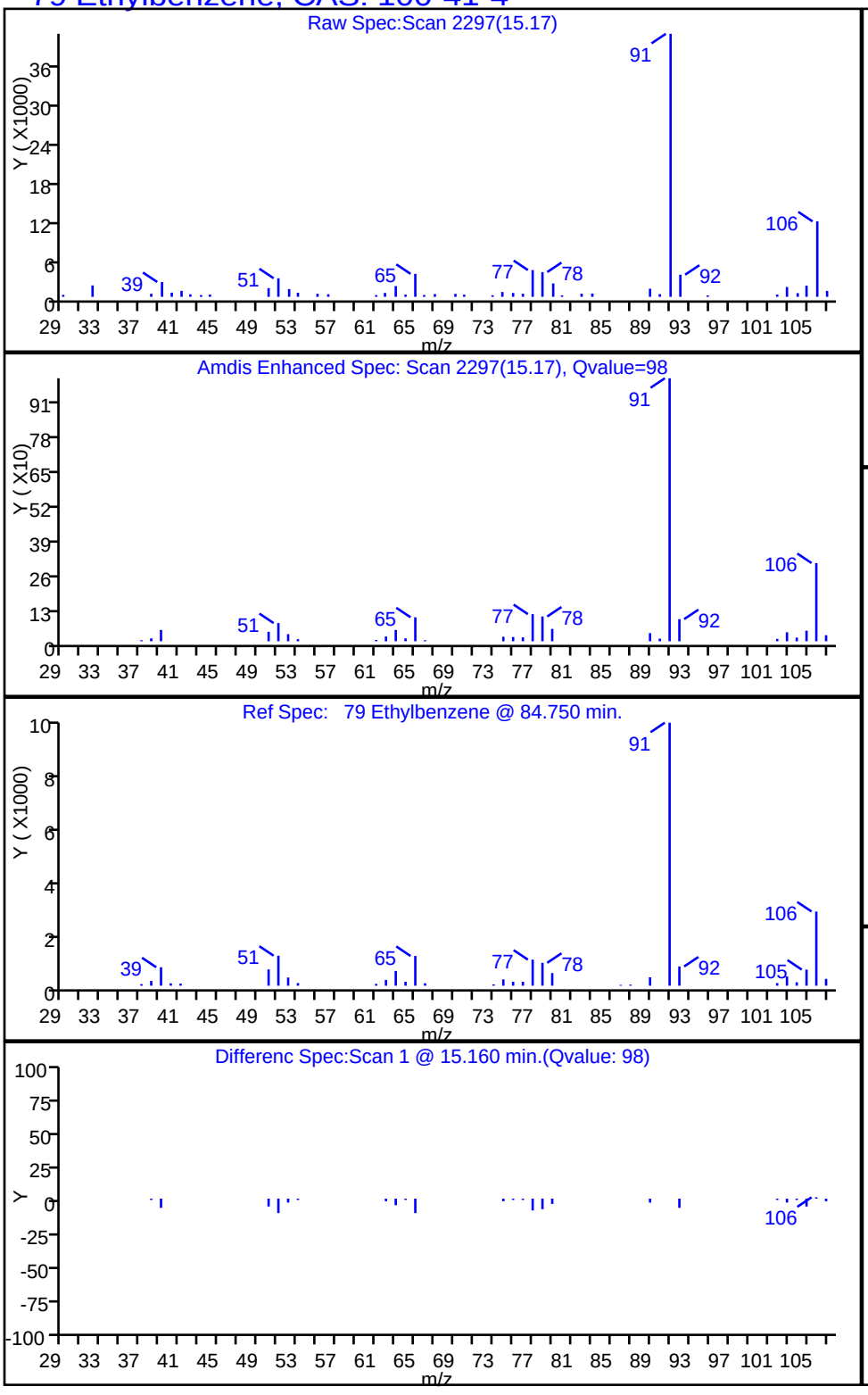
74 Chlorodibromomethane, CAS: 124-48-1

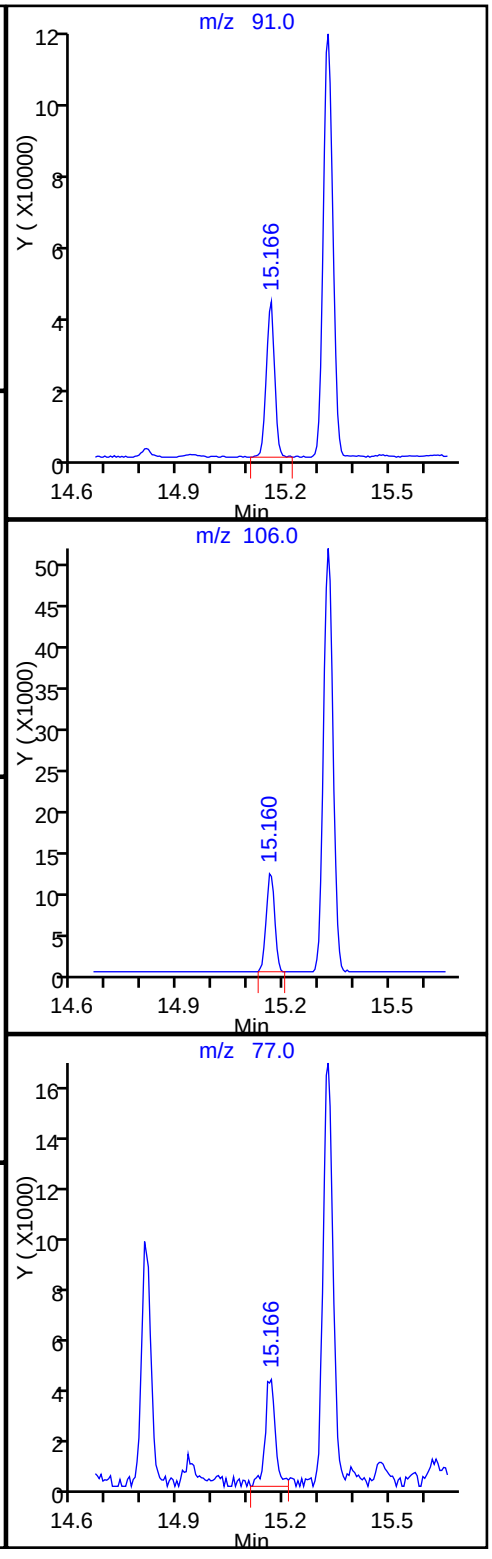




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Lims ID: 140-5720-A-10 Lab Sample ID: 140-5720-10
Client ID: SG-216
Operator ID: 007126 ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 500.000 mL Dil. Factor: 4.6500
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

79 Ethylbenzene, CAS: 100-41-4

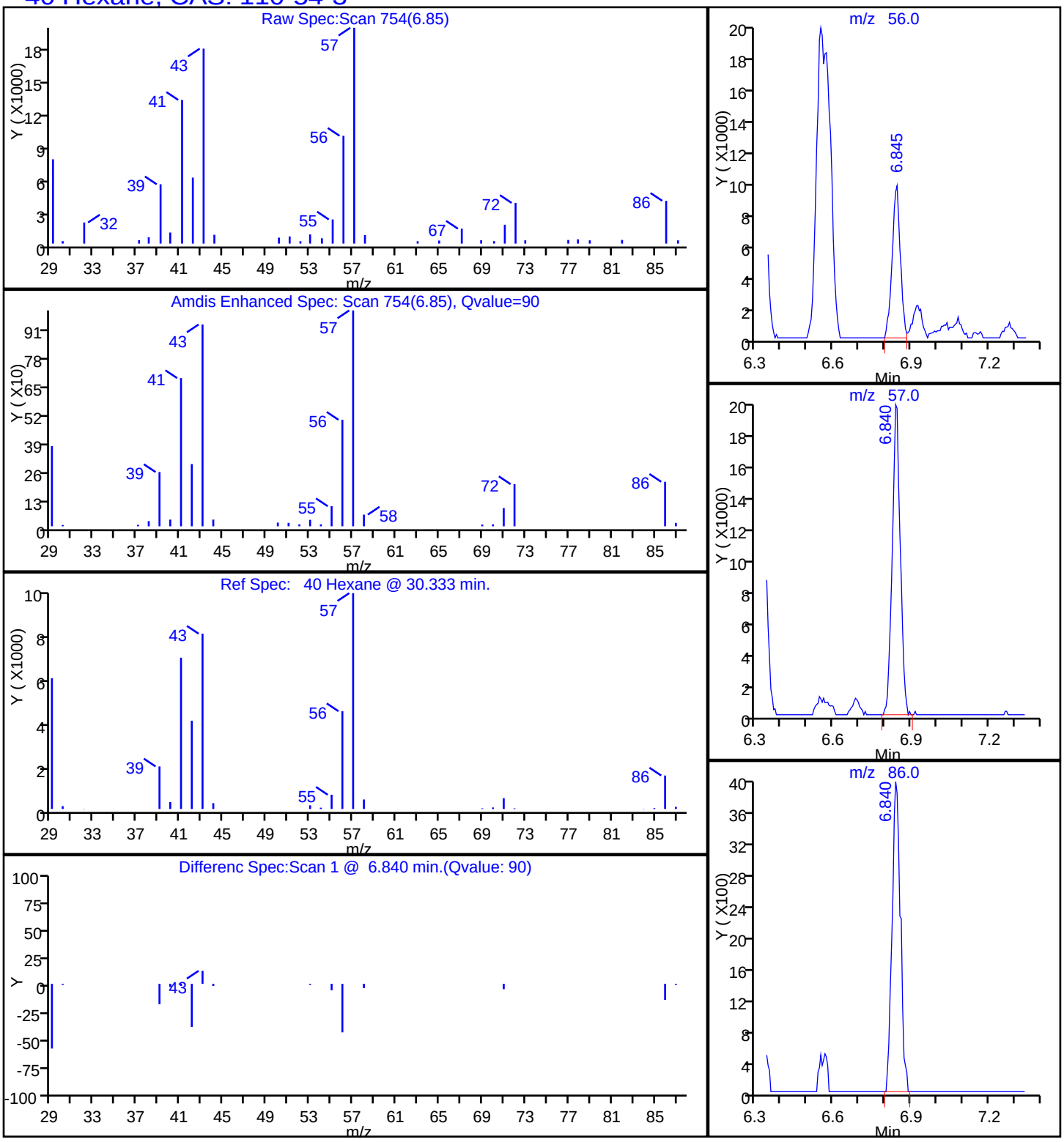




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Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10
Client ID:	SG-216		
Operator ID:	007126	ALS Bottle#:	11 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

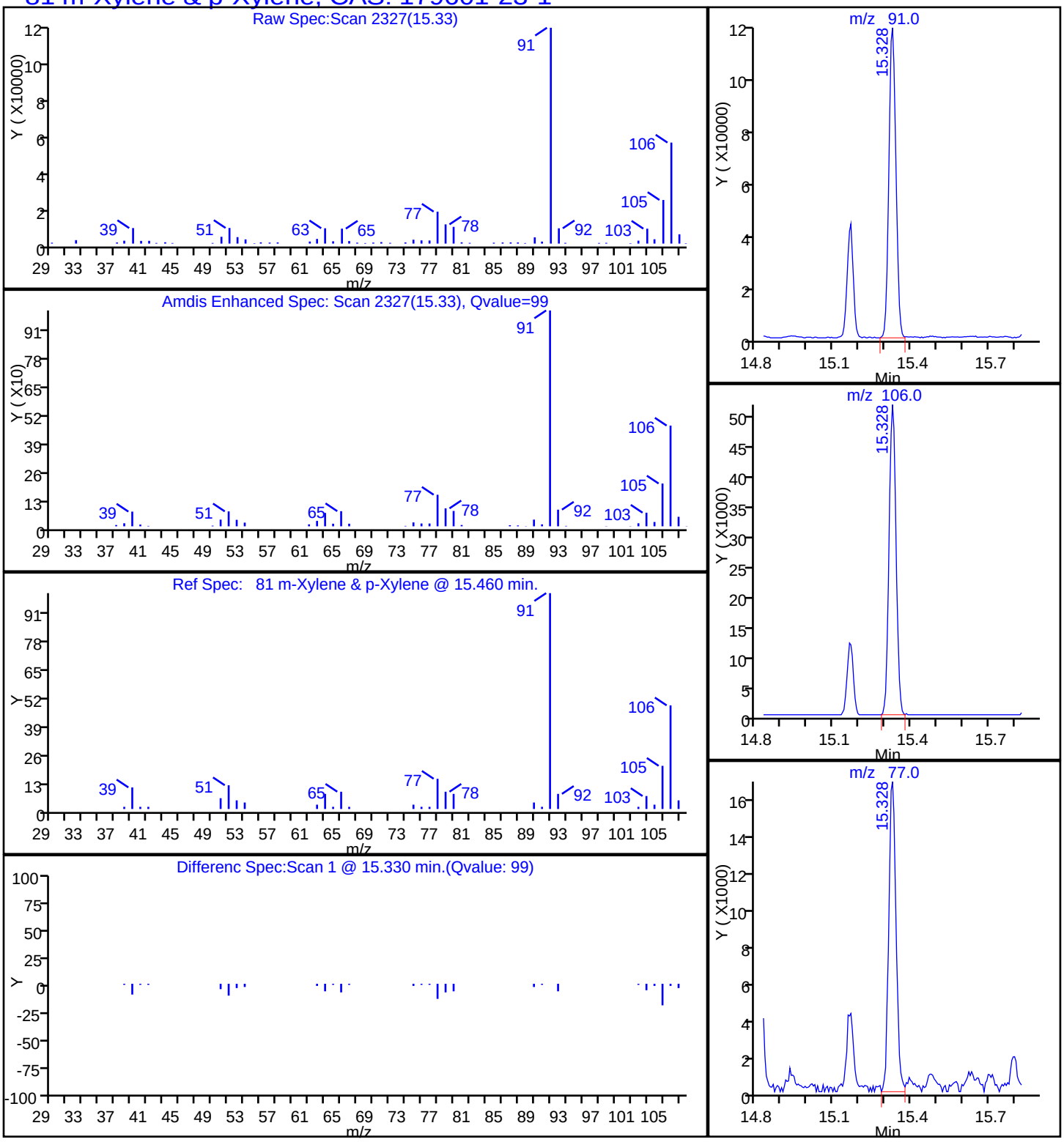
40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

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Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10		
Client ID:	SG-216				
Operator ID:	007126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

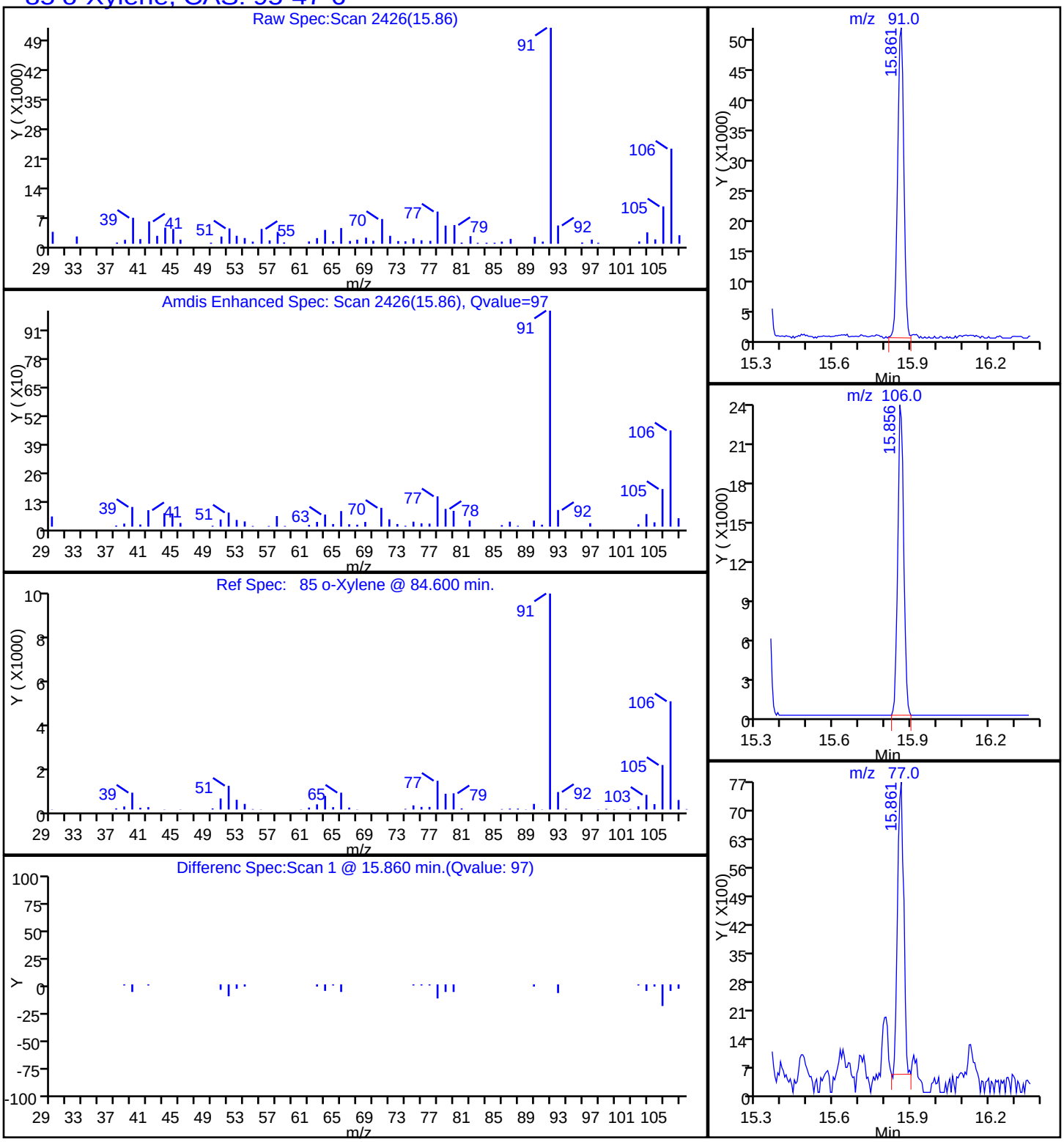
81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P111.D		
Injection Date:	01-Sep-2016 19:43:30	Instrument ID:	ME
Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10
Client ID:	SG-216		
Operator ID:	007126	ALS Bottle#:	11 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

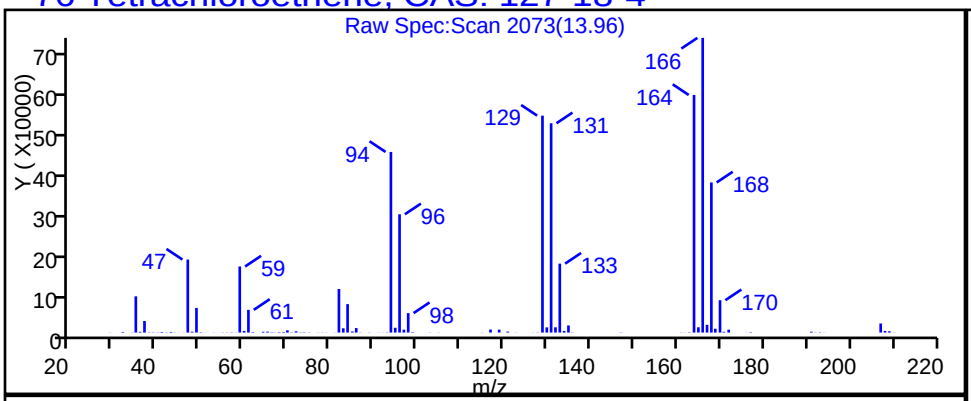
85 o-Xylene, CAS: 95-47-6

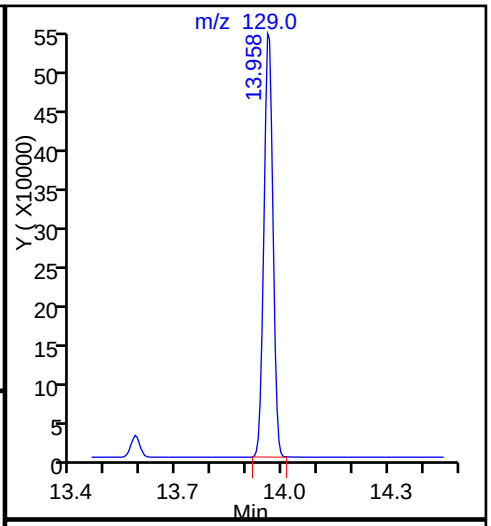


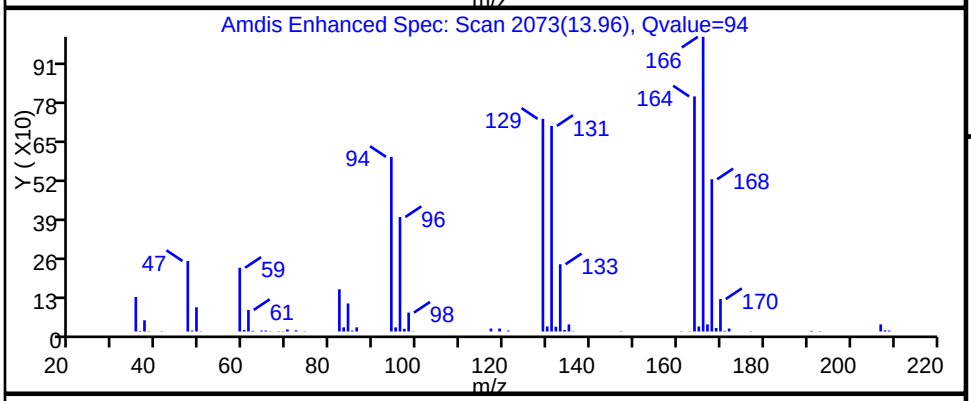
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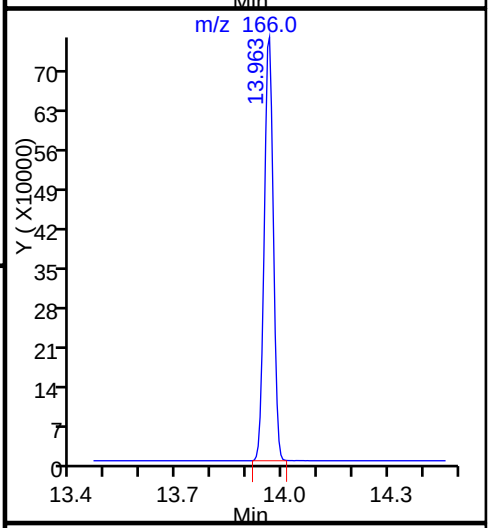
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Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10		
Client ID:	SG-216				
Operator ID:	007126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

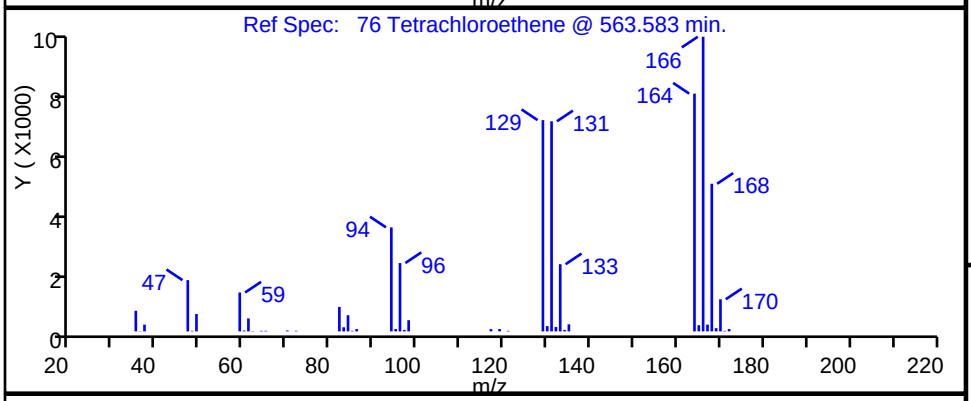
76 Tetrachloroethene, CAS: 127-18-4

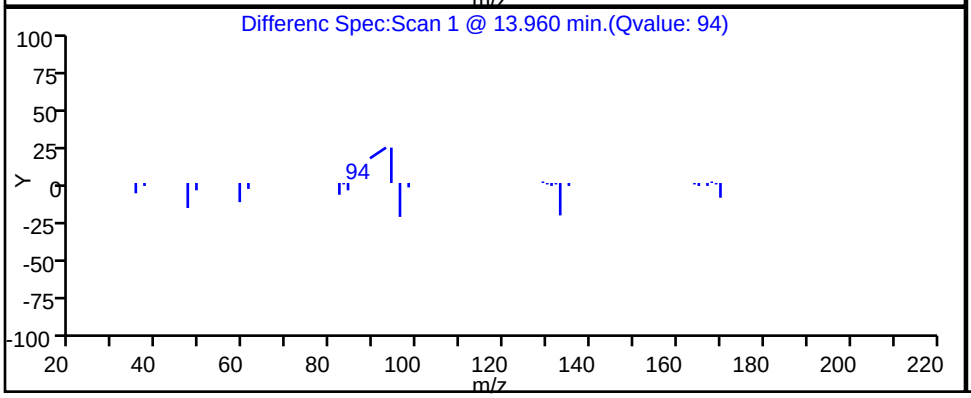


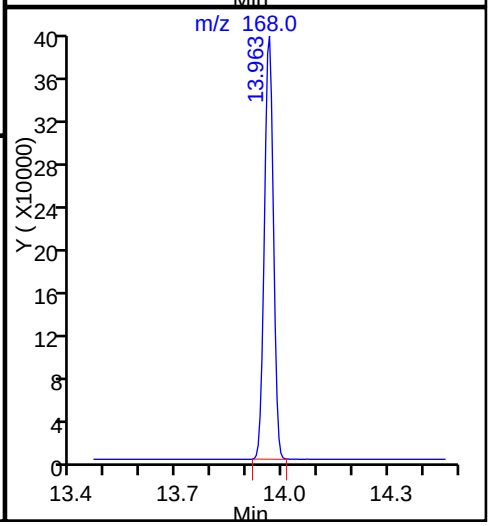










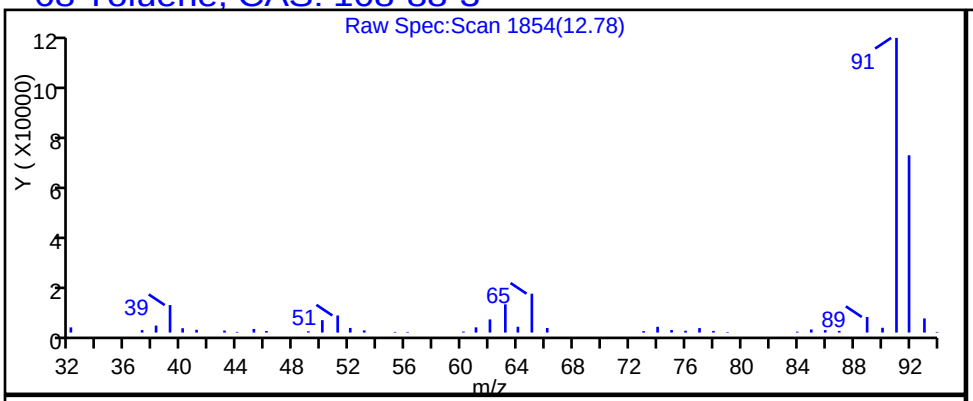


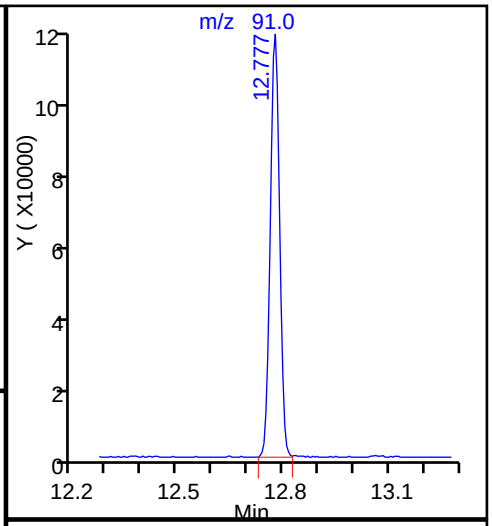
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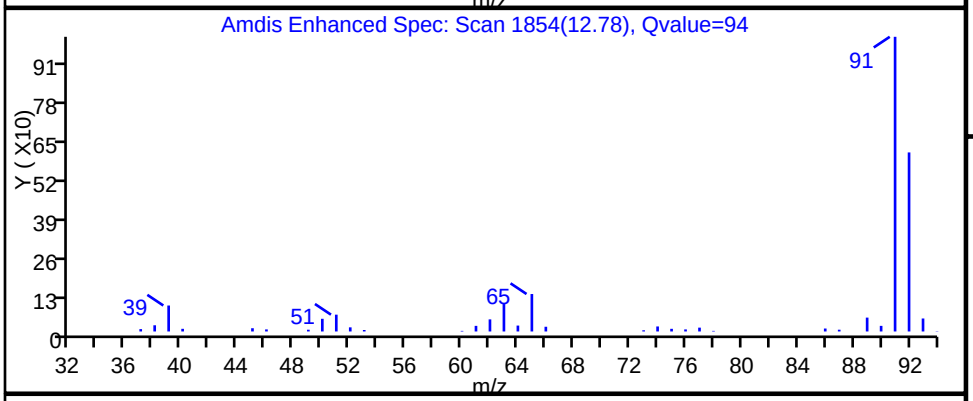
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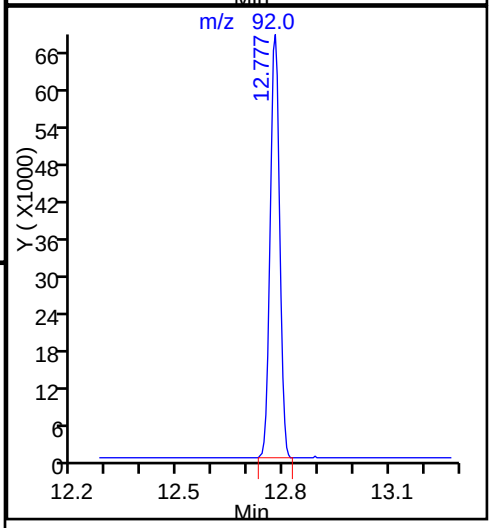
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Injection Date:	01-Sep-2016 19:43:30	Instrument ID:	ME
Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10
Client ID:	SG-216		
Operator ID:	007126	ALS Bottle#:	11 Worklist Smp#: 14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

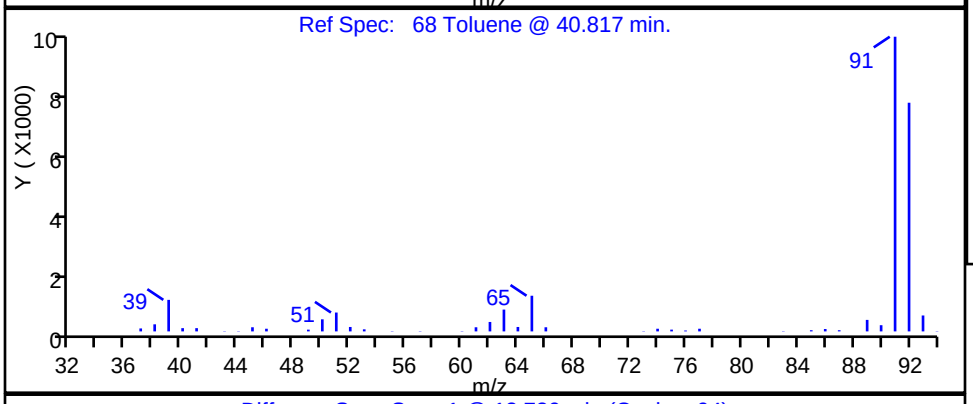
68 Toluene, CAS: 108-88-3

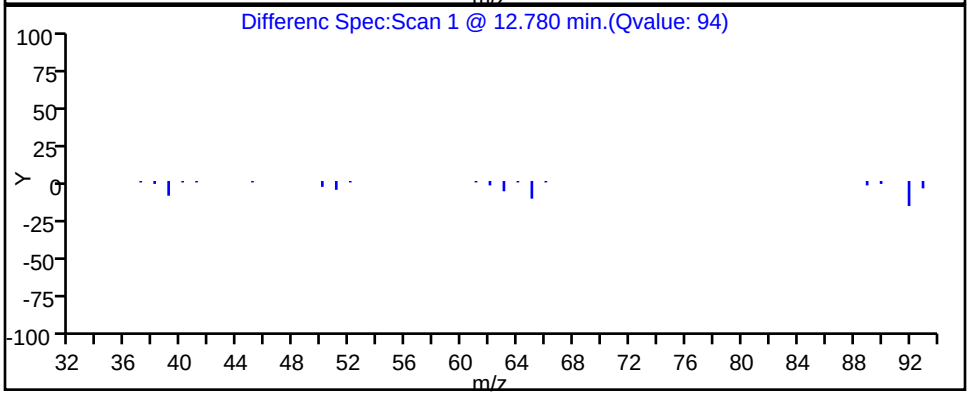












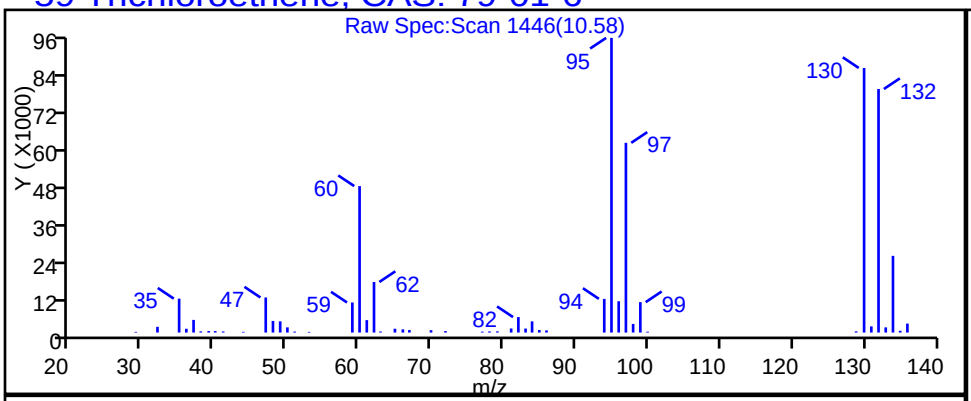
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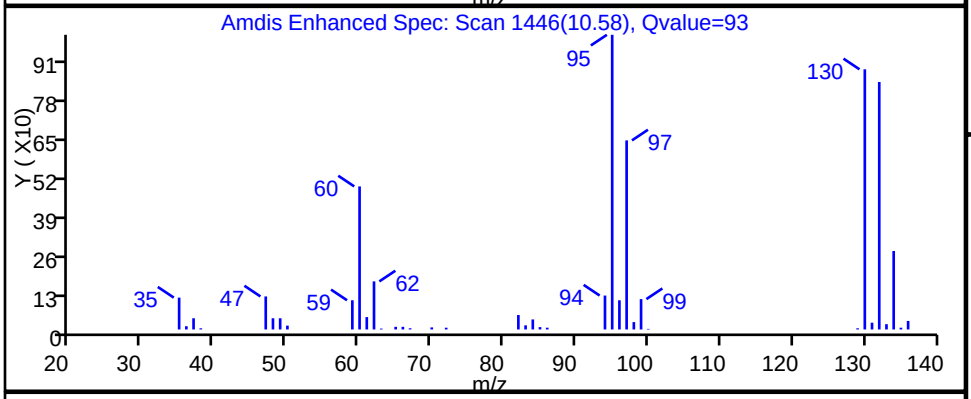
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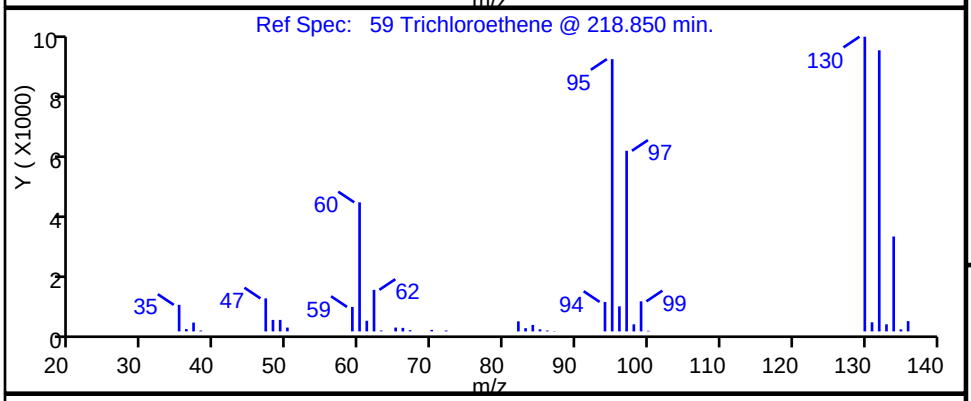
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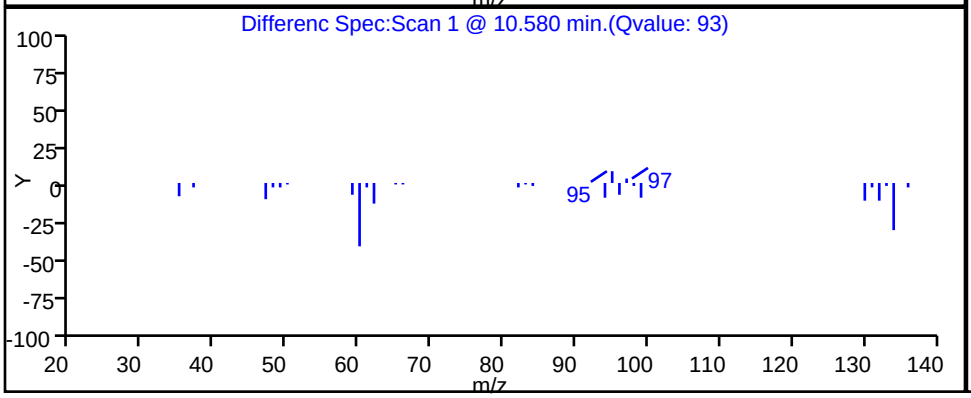
Injection Date:	01-Sep-2016 19:43:30	Instrument ID:	ME		
Lims ID:	140-5720-A-10	Lab Sample ID:	140-5720-10		
Client ID:	SG-216				
Operator ID:	007126	ALS Bottle#:	11	Worklist Smp#:	14
Purge Vol:	500.000 mL	Dil. Factor:	4.6500		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

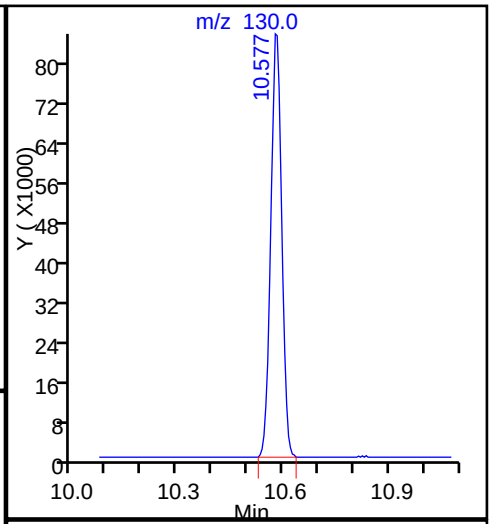
59 Trichloroethene, CAS: 79-01-6

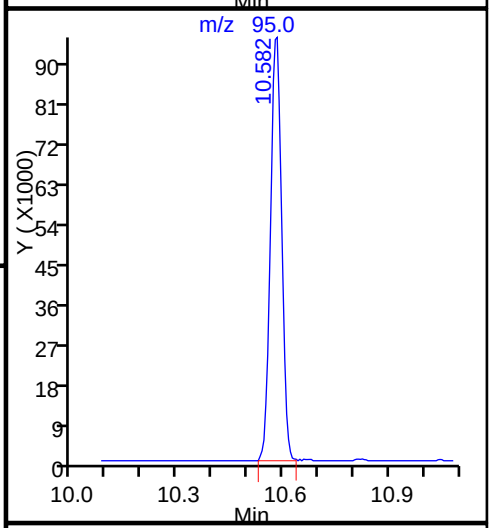


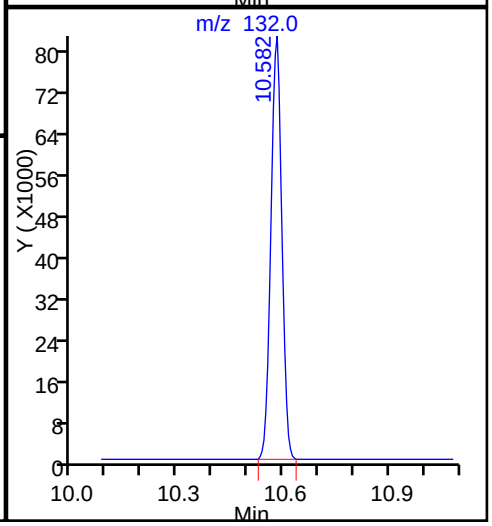












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 | Lab Sample ID: 140-5720-11

Matrix: Air | Lab File ID: EI01P112.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: | Dilution Factor: 14.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		3.9	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		3.9	
79-00-5	1,1,2-Trichloroethane	133.41	ND		3.9	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.9	
75-34-3	1,1-Dichloroethane	98.96	ND		3.9	
75-35-4	1,1-Dichloroethene	96.94	ND		3.9	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.9	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		3.9	
106-93-4	1,2-Dibromoethane	187.87	ND		3.9	
95-50-1	1,2-Dichlorobenzene	147.00	ND		3.9	
107-06-2	1,2-Dichloroethane	98.96	ND		3.9	
78-87-5	1,2-Dichloropropane	112.99	ND		3.9	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		3.9	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.9	
541-73-1	1,3-Dichlorobenzene	147.00	ND		3.9	
106-46-7	1,4-Dichlorobenzene	147.00	12		3.9	
123-91-1	1,4-Dioxane	88.11	ND		9.6	
540-84-1	2,2,4-Trimethylpentane	114.23	440		9.6	
78-93-3	2-Butanone	72.11	ND		15	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		9.6	
71-43-2	Benzene	78.11	ND		3.9	
100-44-7	Benzyl chloride	126.58	ND		7.7	
75-27-4	Bromodichloromethane	163.83	ND		3.9	
75-25-2	Bromoform	252.75	ND		3.9	
74-83-9	Bromomethane	94.94	ND		3.9	
56-23-5	Carbon tetrachloride	153.81	ND		1.9	
108-90-7	Chlorobenzene	112.56	ND		3.9	
75-00-3	Chloroethane	64.52	ND		3.9	
67-66-3	Chloroform	119.38	ND		3.9	
74-87-3	Chloromethane	50.49	ND		9.6	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		3.9	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		3.9	
110-82-7	Cyclohexane	84.16	170		9.6	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 Lab Sample ID: 140-5720-11

Matrix: Air Lab File ID: EI01P112.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: Dilution Factor: 14.47

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		3.9	
75-71-8	Dichlorodifluoromethane	120.91	ND		3.9	
64-17-5	Ethanol	46.07	ND		96	
100-41-4	Ethylbenzene	106.17	ND		3.9	
87-68-3	Hexachlorobutadiene	260.76	ND		3.9	
110-54-3	Hexane	86.17	260		9.6	
1634-04-4	Methyl tert-butyl ether	88.15	ND		7.7	
75-09-2	Methylene Chloride	84.93	ND		9.6	
179601-23-1	m-Xylene & p-Xylene	106.17	8.3		3.9	
95-47-6	o-Xylene	106.17	ND		3.9	
100-42-5	Styrene	104.15	ND		3.9	
75-65-0	t-Butyl alcohol	74.12	ND		15	
127-18-4	Tetrachloroethene	165.83	ND		3.9	
108-88-3	Toluene	92.14	6.2		5.8	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.9	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		3.9	
79-01-6	Trichloroethene	131.39	ND		1.9	
75-69-4	Trichlorofluoromethane	137.37	ND		3.9	
75-01-4	Vinyl chloride	62.50	18		1.9	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 Lab Sample ID: 140-5720-11

Matrix: Air Lab File ID: EI01P112.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: Dilution Factor: 14.47

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		21	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		26	
79-00-5	1,1,2-Trichloroethane	133.41	ND		21	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		30	
75-34-3	1,1-Dichloroethane	98.96	ND		16	
75-35-4	1,1-Dichloroethene	96.94	ND		15	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		29	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		19	
106-93-4	1,2-Dibromoethane	187.87	ND		30	
95-50-1	1,2-Dichlorobenzene	147.00	ND		23	
107-06-2	1,2-Dichloroethane	98.96	ND		16	
78-87-5	1,2-Dichloropropane	112.99	ND		18	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		27	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		19	
541-73-1	1,3-Dichlorobenzene	147.00	ND		23	
106-46-7	1,4-Dichlorobenzene	147.00	75		23	
123-91-1	1,4-Dioxane	88.11	ND		35	
540-84-1	2,2,4-Trimethylpentane	114.23	2100		45	
78-93-3	2-Butanone	72.11	ND		46	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		40	
71-43-2	Benzene	78.11	ND		12	
100-44-7	Benzyl chloride	126.58	ND		40	
75-27-4	Bromodichloromethane	163.83	ND		26	
75-25-2	Bromoform	252.75	ND		40	
74-83-9	Bromomethane	94.94	ND		15	
56-23-5	Carbon tetrachloride	153.81	ND		12	
108-90-7	Chlorobenzene	112.56	ND		18	
75-00-3	Chloroethane	64.52	ND		10	
67-66-3	Chloroform	119.38	ND		19	
74-87-3	Chloromethane	50.49	ND		20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		15	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		18	
110-82-7	Cyclohexane	84.16	570		33	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 Lab Sample ID: 140-5720-11

Matrix: Air Lab File ID: EI01P112.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: Dilution Factor: 14.47

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		33	
75-71-8	Dichlorodifluoromethane	120.91	ND		19	
64-17-5	Ethanol	46.07	ND		180	
100-41-4	Ethylbenzene	106.17	ND		17	
87-68-3	Hexachlorobutadiene	260.76	ND		41	
110-54-3	Hexane	86.17	920		34	
1634-04-4	Methyl tert-butyl ether	88.15	ND		28	
75-09-2	Methylene Chloride	84.93	ND		34	
179601-23-1	m-Xylene & p-Xylene	106.17	36		17	
95-47-6	o-Xylene	106.17	ND		17	
100-42-5	Styrene	104.15	ND		16	
75-65-0	t-Butyl alcohol	74.12	ND		47	
127-18-4	Tetrachloroethene	165.83	ND		26	
108-88-3	Toluene	92.14	23		22	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		15	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		18	
79-01-6	Trichloroethene	131.39	ND		10	
75-69-4	Trichlorofluoromethane	137.37	ND		22	
75-01-4	Vinyl chloride	62.50	45		4.9	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D
Lims ID: 140-5720-A-11
Client ID: SG-219
Sample Type: Client
Inject. Date: 01-Sep-2016 20:28:30 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 14.4700
Sample Info: 140-0003369-015
Misc. Info.: 140-5720-a-11@14.47
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 12:23:45 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:24:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	73	279474	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1359806	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1302385	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	1111541	4.17	
8 Dichlorodifluoromethane	85	2.952	2.946	0.006	99	17685	0.0602	
12 Vinyl chloride	62	3.243	3.238	0.005	98	27533	0.3655	
28 2-Methyl-2-propanol	59	4.893	4.877	0.016	89	2925	0.0253	
31 Methylene Chloride	84	5.103	5.103	0.000	75	5769	0.0658	
34 trans-1,2-Dichloroethene	96	5.880	5.869	0.011	90	3827	0.0413	
37 1,1-Dichloroethane	63	6.284	6.279	0.005	21	12081	0.0777	
39 2-Butanone (MEK)	72	6.850	6.834	0.016	47	9129	0.2242	
40 Hexane	56	6.856	6.840	0.016	86	296226	5.43	
42 cis-1,2-Dichloroethene	96	7.239	7.244	-0.005	88	6287	0.0672	
50 Cyclohexane	69	9.207	9.196	0.011	90	159413	3.46	
51 Benzene	78	9.207	9.202	0.005	43	18421	0.0661	
56 Isooctane	57	10.048	10.037	0.011	97	2957276	9.13	
59 Trichloroethene	130	10.582	10.582	0.000	68	3665	0.0301	
68 Toluene	91	12.782	12.777	0.005	95	40086	0.1283	
77 Chlorobenzene	112	14.863	14.858	0.005	84	18973	0.0786	
79 Ethylbenzene	91	15.165	15.166	-0.001	95	20978	0.0500	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	97	55917	0.1711	
85 o-Xylene	91	15.861	15.861	0.000	93	23257	0.0678	
96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	95	25431	0.0691	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	91	56227	0.2588	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

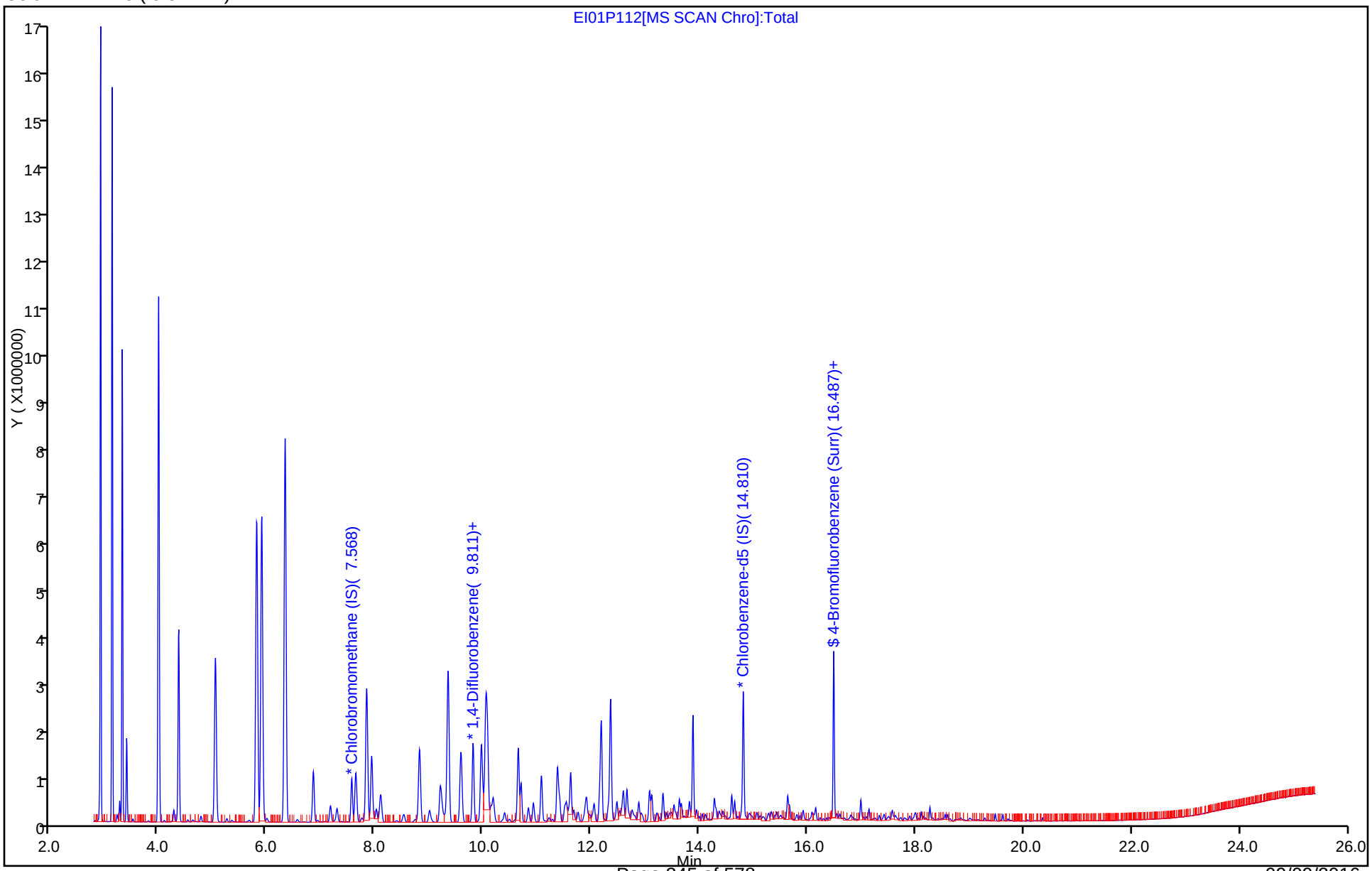
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D

Injection Date:	01-Sep-2016 20:28:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-11	Lab Sample ID:	140-5720-11	Worklist Smp#:	15
Client ID:	SG-219				
Purge Vol:	500.000 mL	Dil. Factor:	14.4700	ALS Bottle#:	12
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D				
Lims ID:	140-5720-A-11				
Client ID:	SG-219				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 20:28:30	ALS Bottle#:	12	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	14.4700		
Sample Info:	140-0003369-015				
Misc. Info.:	140-5720-a-11@14.47				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 12:23:45	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:24:39

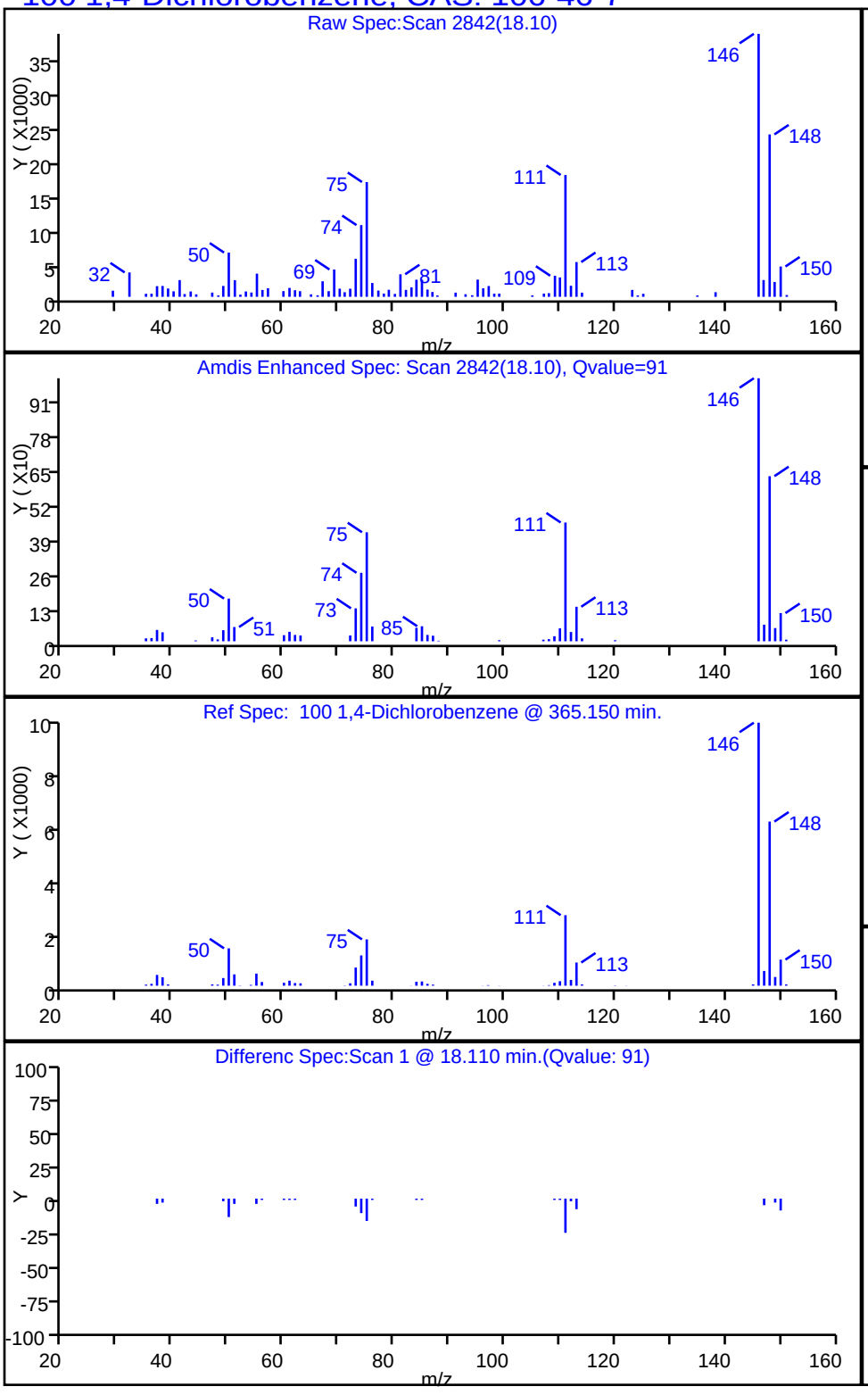
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.17	104.27

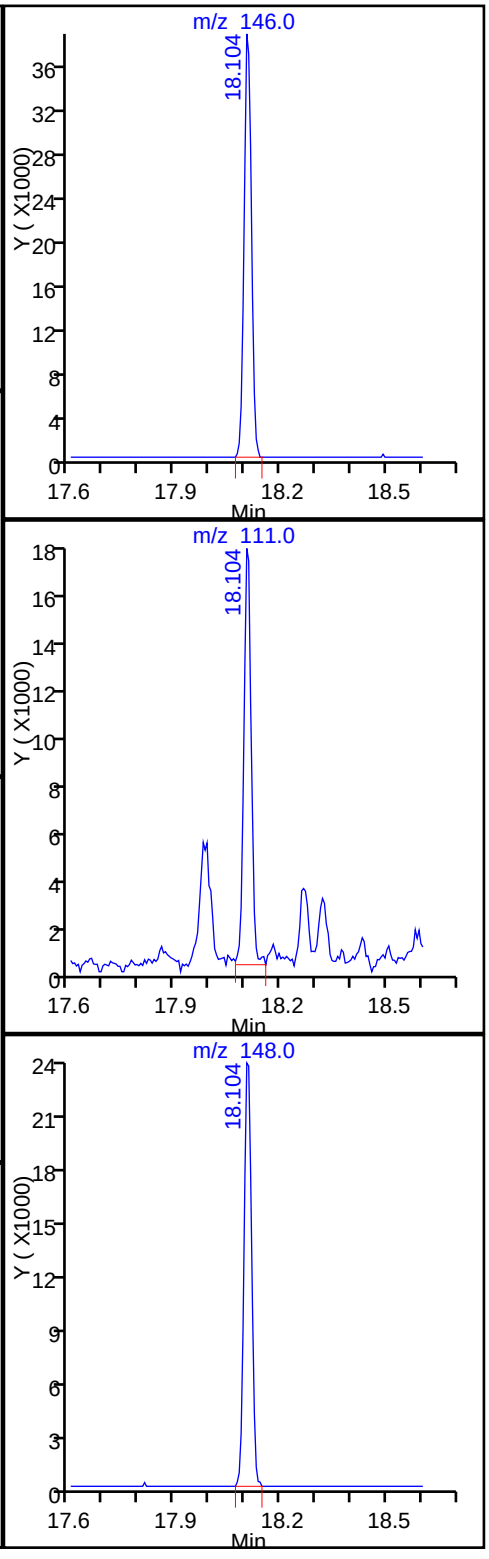
Report Date: 02-Sep-2016 12:24:40 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D				
Injection Date:	01-Sep-2016 20:28:30	Instrument ID:	ME		
Lims ID:	140-5720-A-11	Lab Sample ID:	140-5720-11		
Client ID:	SG-219				
Operator ID:	007126	ALS Bottle#:	12	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	14.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

100 1,4-Dichlorobenzene, CAS: 106-46-7

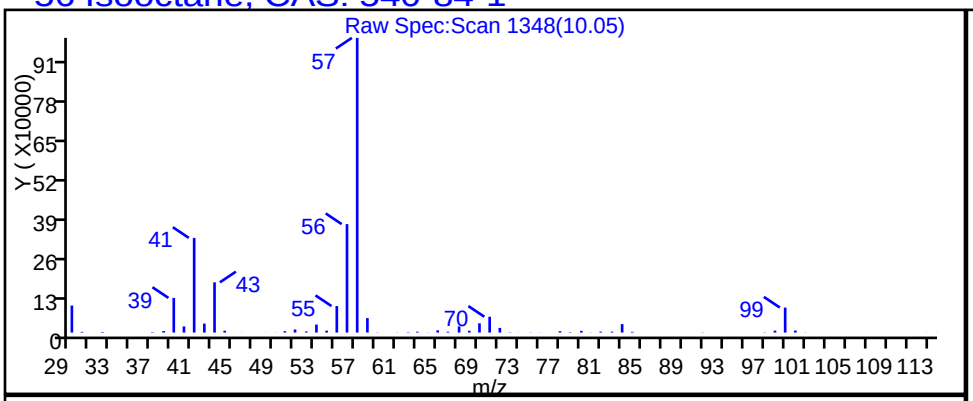


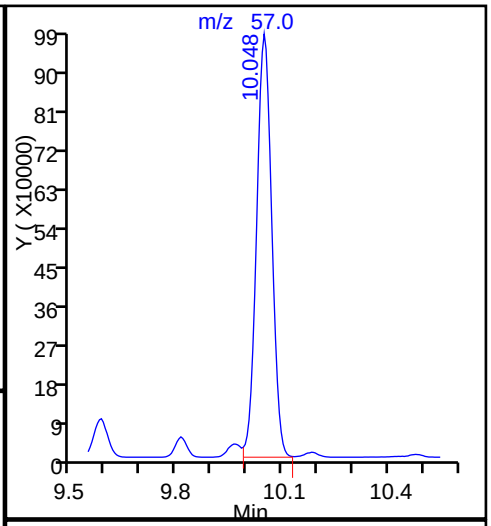


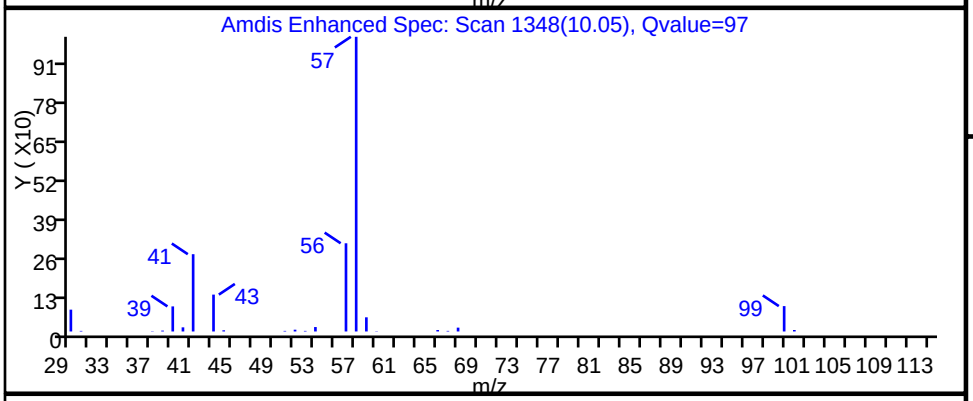
TestAmerica Knoxville

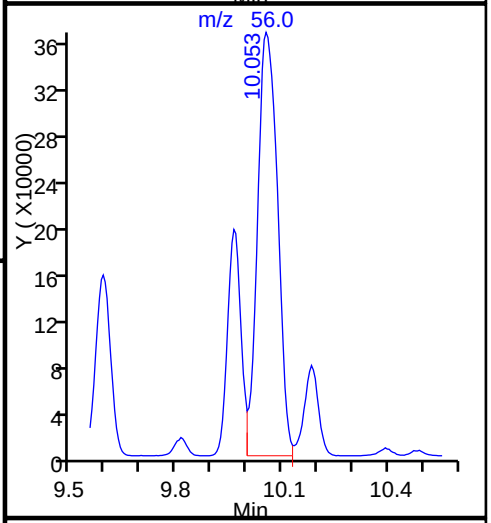
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Injection Date:	01-Sep-2016 20:28:30	Instrument ID:	ME
Lims ID:	140-5720-A-11	Lab Sample ID:	140-5720-11
Client ID:	SG-219		
Operator ID:	007126	ALS Bottle#:	12 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	14.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

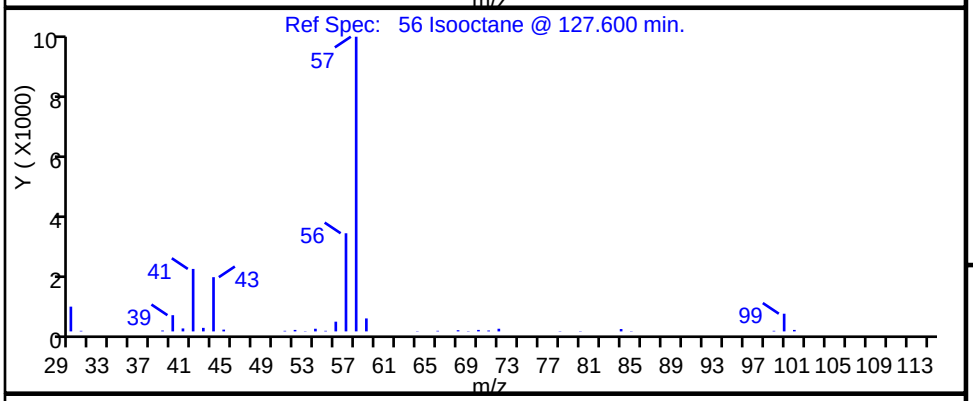
56 Isooctane, CAS: 540-84-1

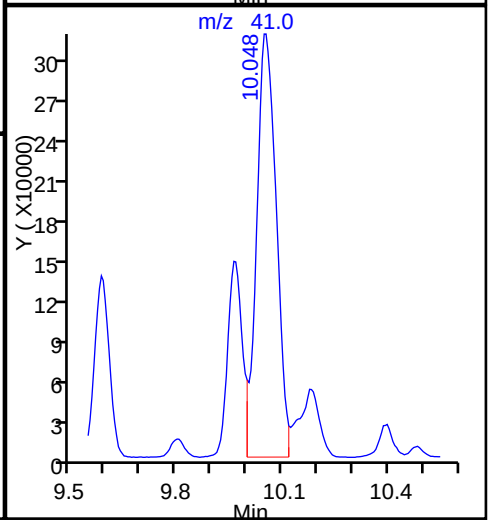


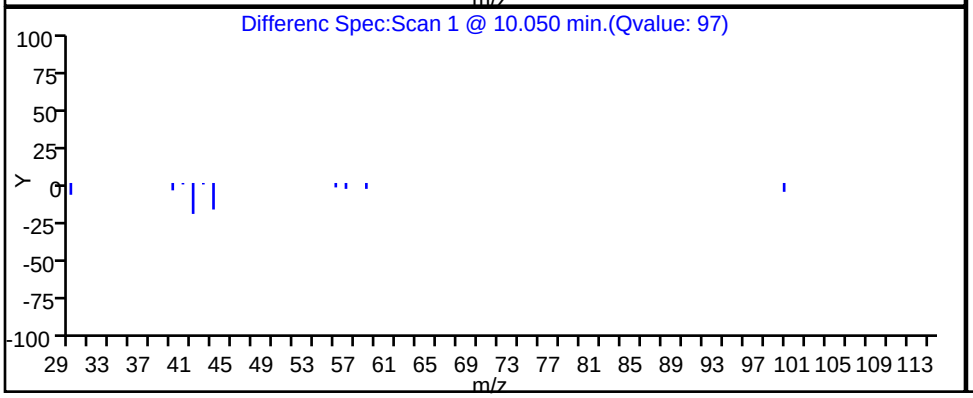








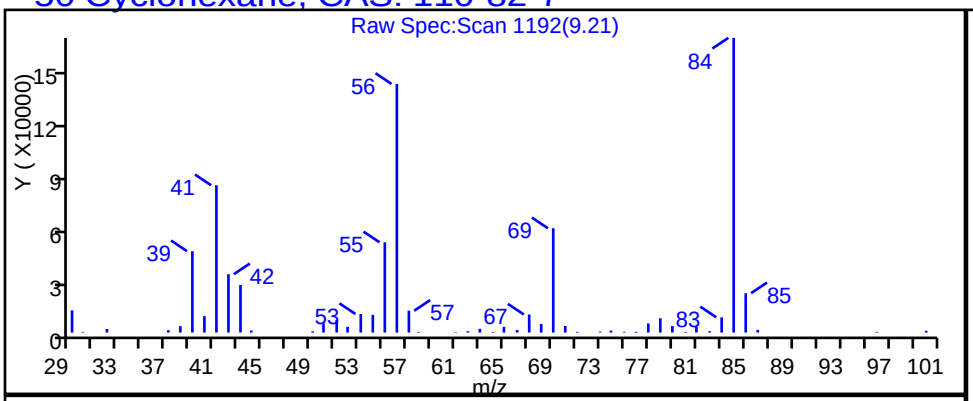


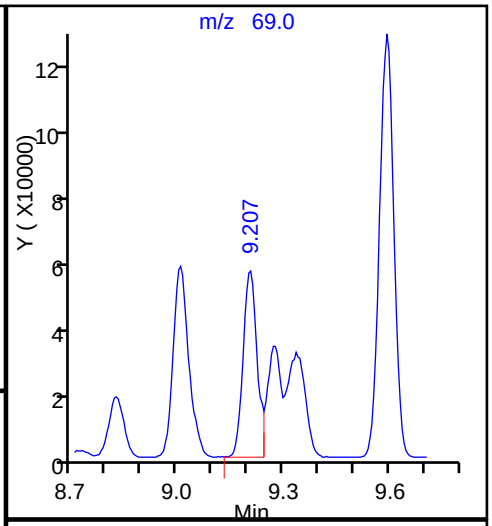


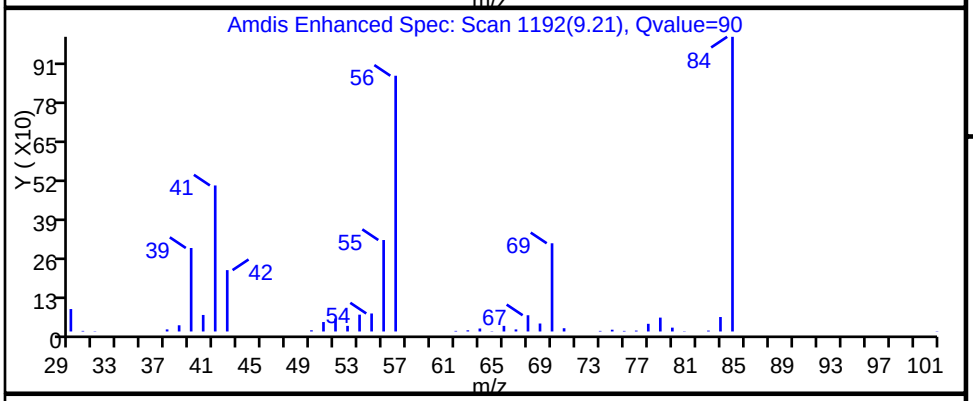
TestAmerica Knoxville

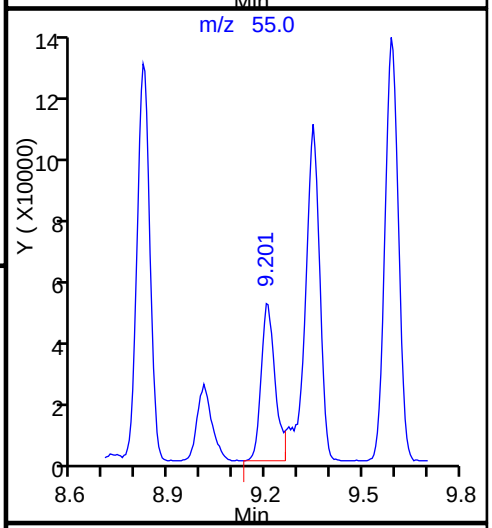
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D		
Injection Date:	01-Sep-2016 20:28:30	Instrument ID:	ME
Lims ID:	140-5720-A-11	Lab Sample ID:	140-5720-11
Client ID:	SG-219		
Operator ID:	007126	ALS Bottle#:	12 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	14.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

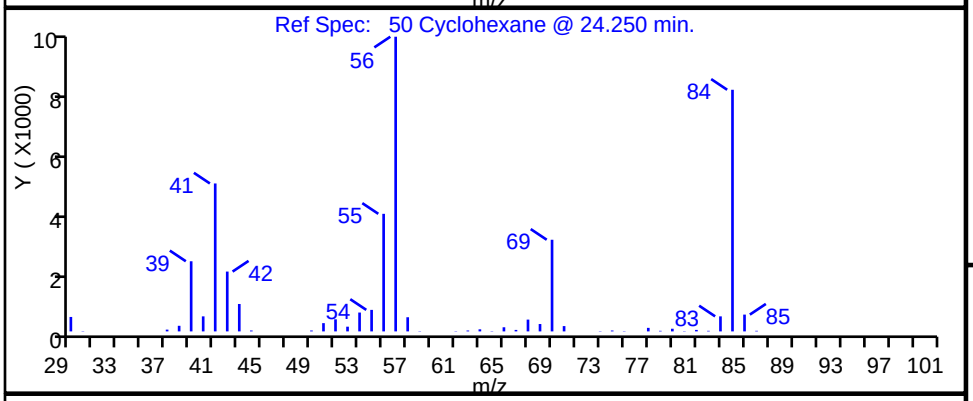
50 Cyclohexane, CAS: 110-82-7

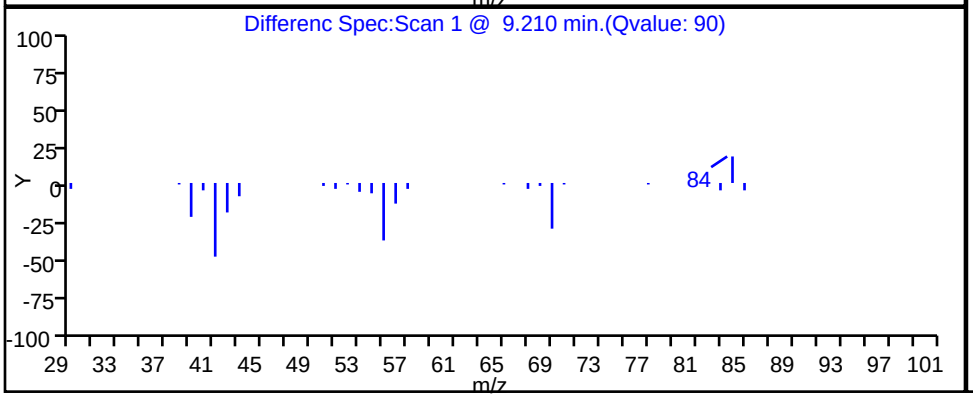


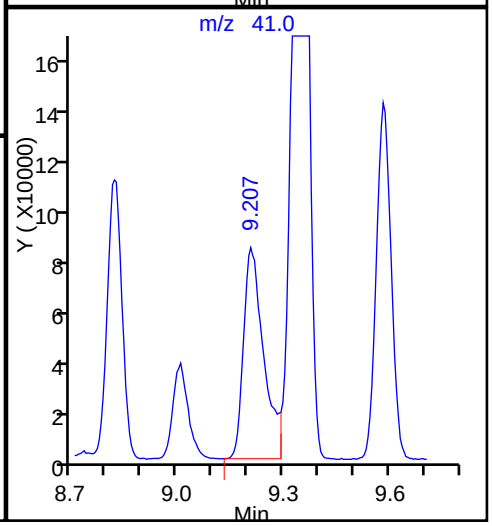








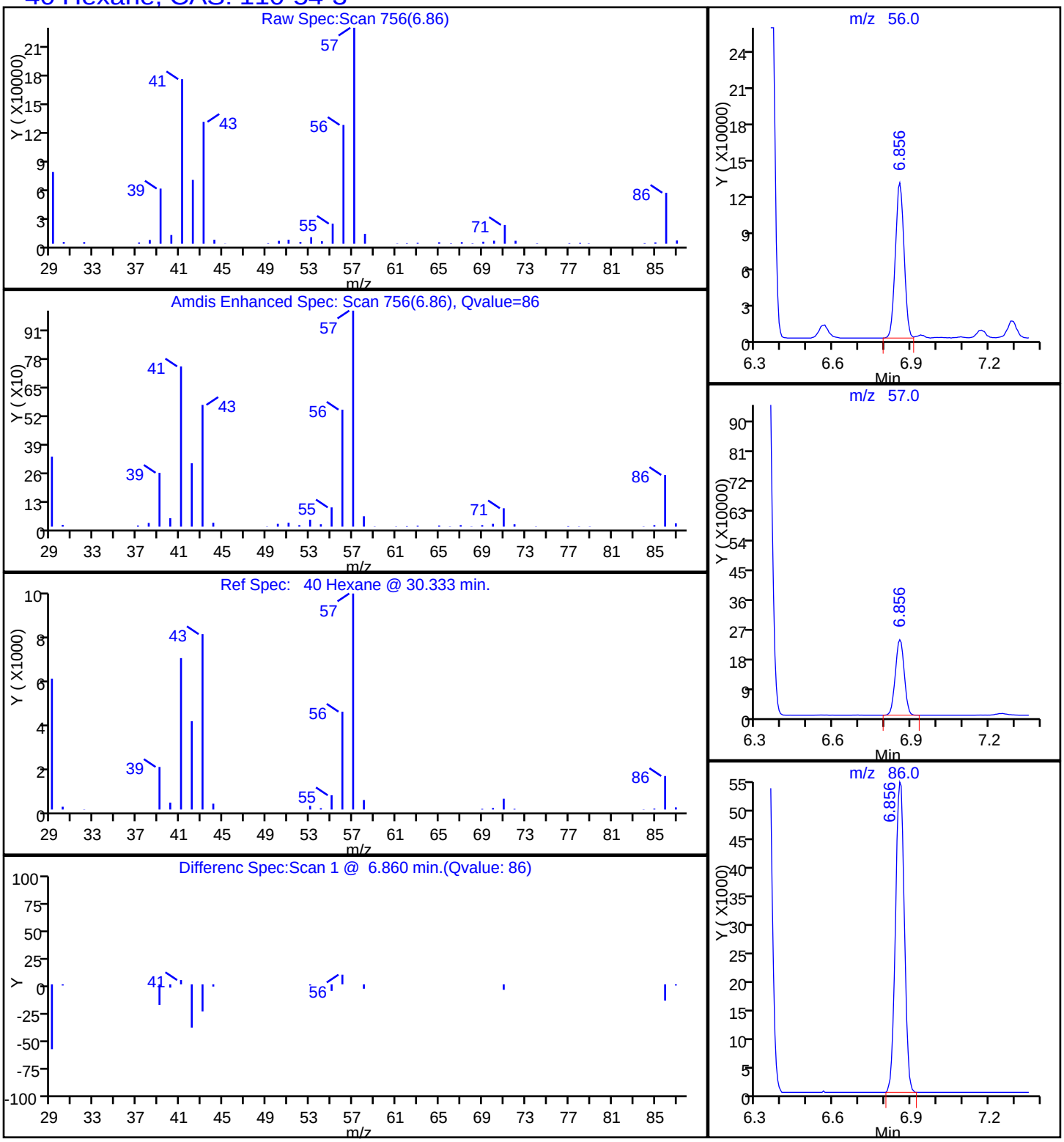




TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D		
Injection Date:	01-Sep-2016 20:28:30	Instrument ID:	ME
Lims ID:	140-5720-A-11	Lab Sample ID:	140-5720-11
Client ID:	SG-219		
Operator ID:	007126	ALS Bottle#:	12 Worklist Smp#: 15
Purge Vol:	500.000 mL	Dil. Factor:	14.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

40 Hexane, CAS: 110-54-3

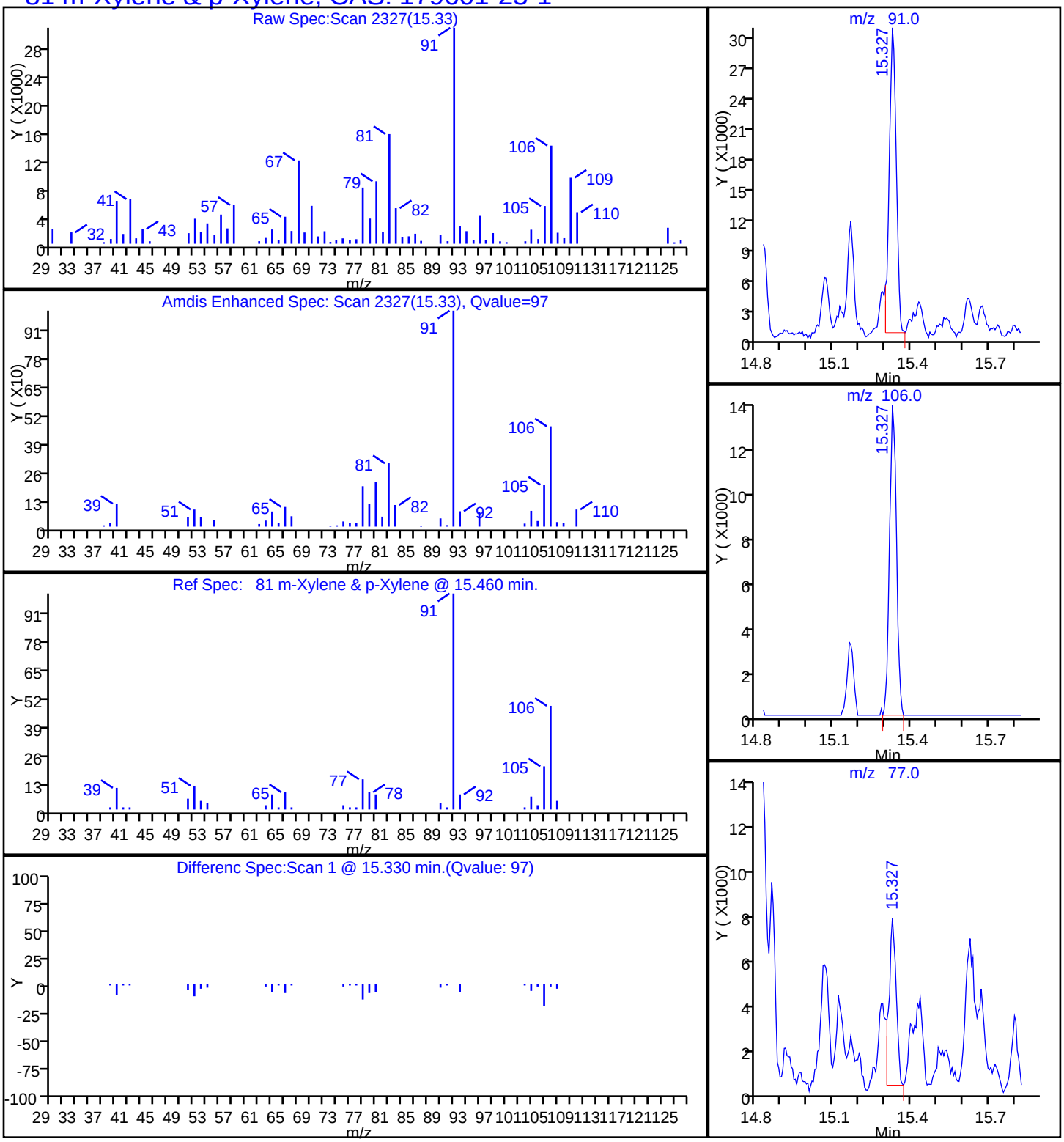


Report Date: 02-Sep-2016 12:24:40 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D				
Injection Date:	01-Sep-2016 20:28:30	Instrument ID:	ME		
Lims ID:	140-5720-A-11	Lab Sample ID:	140-5720-11		
Client ID:	SG-219				
Operator ID:	007126	ALS Bottle#:	12	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	14.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

81 m-Xylene & p-Xylene, CAS: 179601-23-1



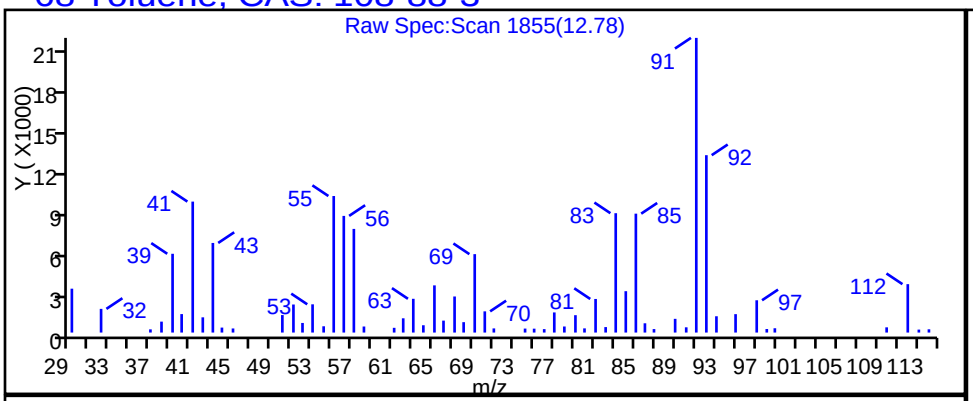
Report Date: 02-Sep-2016 12:24:40 Chrom Revision: 2.2 16-Aug-2016 13:13:02

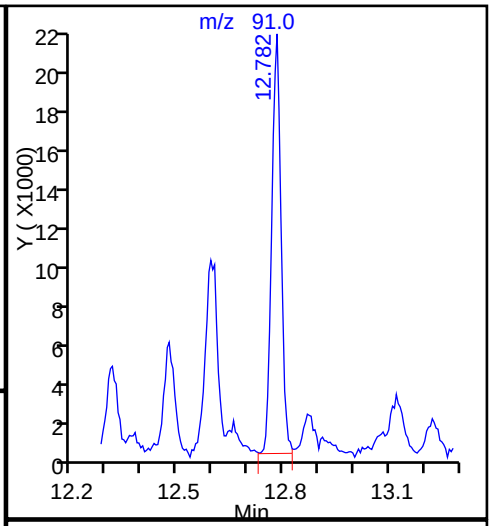
TestAmerica Knoxville

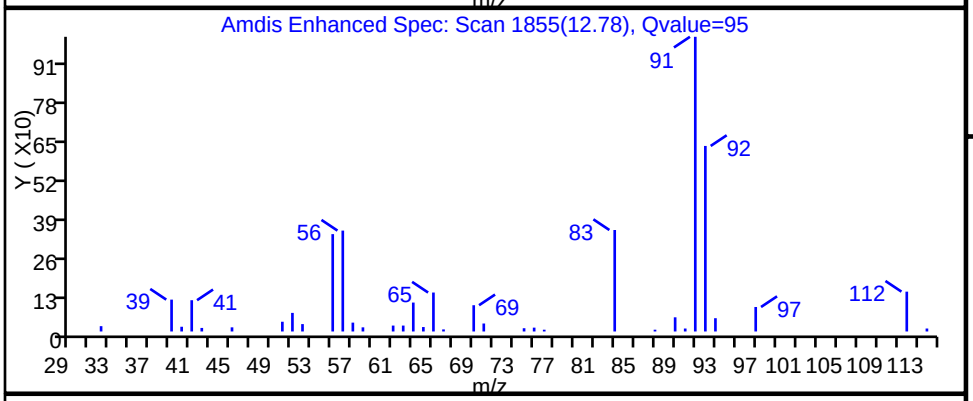
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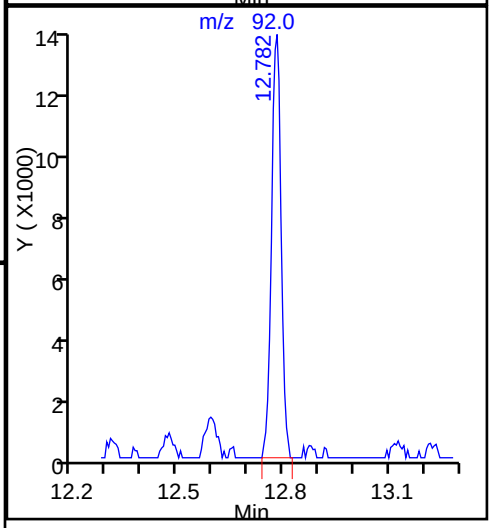
Injection Date:	01-Sep-2016 20:28:30	Instrument ID:	ME		
Lims ID:	140-5720-A-11	Lab Sample ID:	140-5720-11		
Client ID:	SG-219				
Operator ID:	007126	ALS Bottle#:	12	Worklist Smp#:	15
Purge Vol:	500.000 mL	Dil. Factor:	14.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

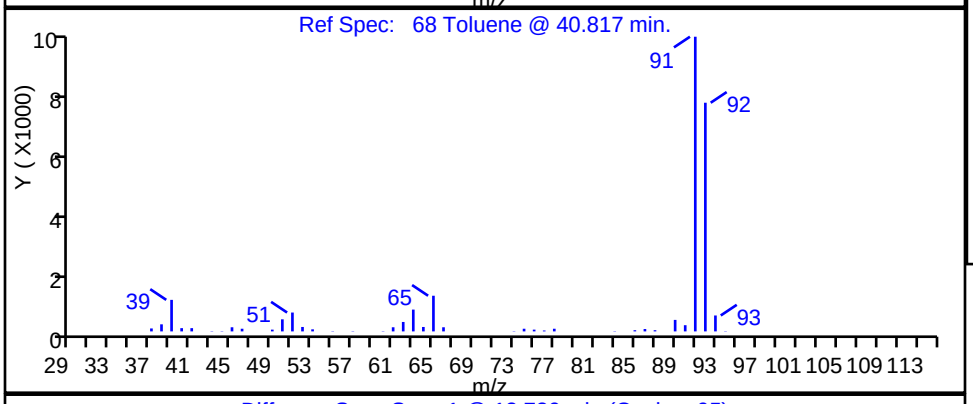
68 Toluene, CAS: 108-88-3

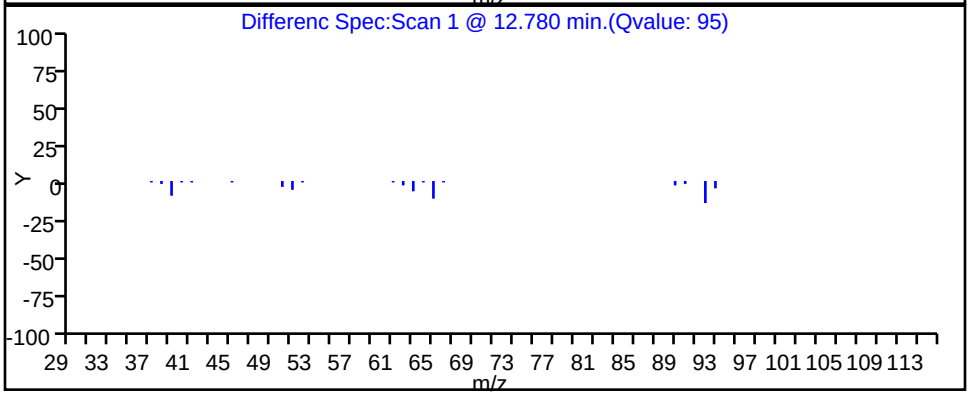






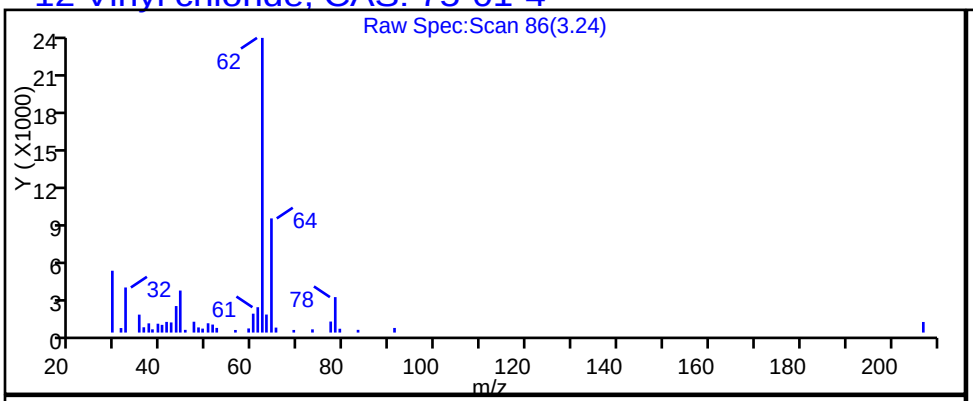


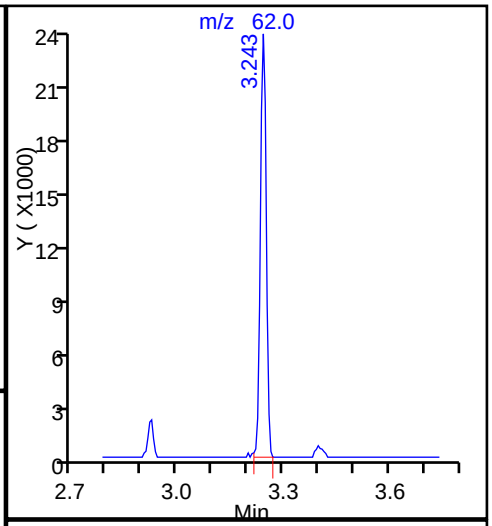


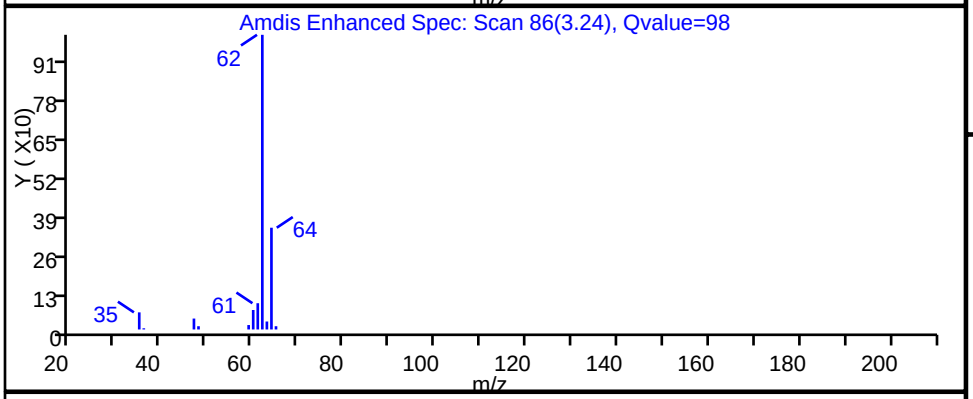


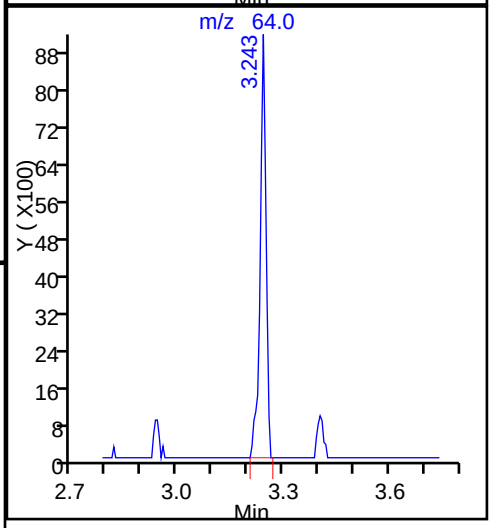
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P112.D
Injection Date: 01-Sep-2016 20:28:30 Instrument ID: ME
Lims ID: 140-5720-A-11 Lab Sample ID: 140-5720-11
Client ID: SG-219
Operator ID: 007126 ALS Bottle#: 12 Worklist Smp#: 15
Purge Vol: 500.000 mL Dil. Factor: 14.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

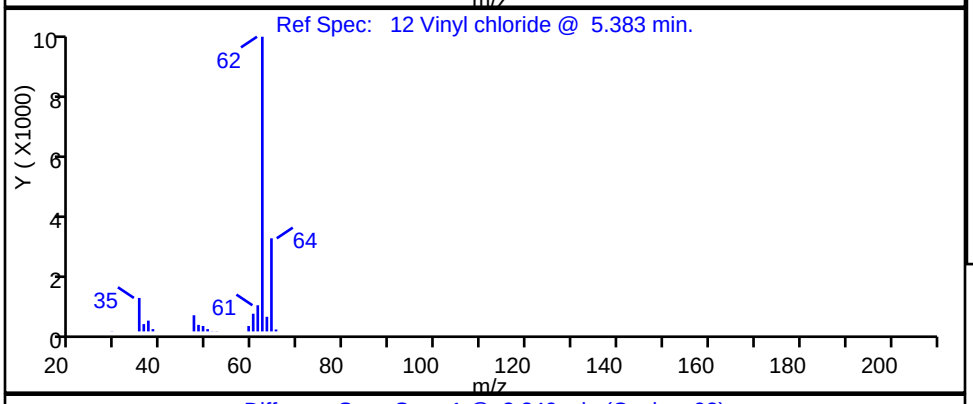
12 Vinyl chloride, CAS: 75-01-4

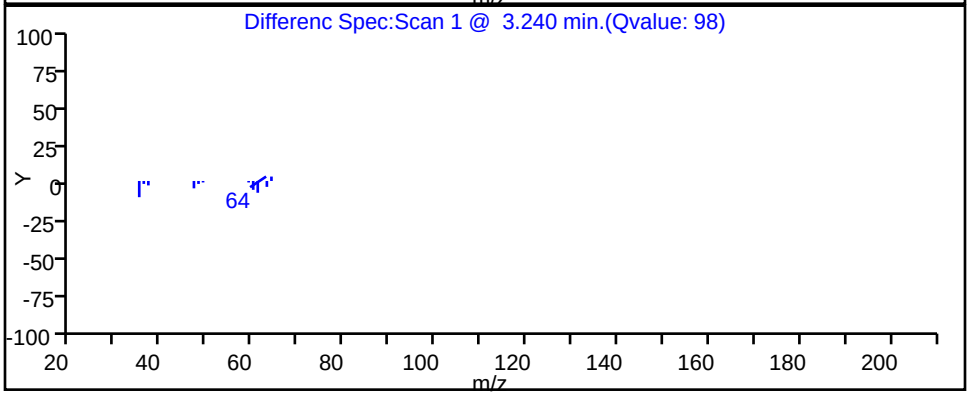












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 | Lab Sample ID: 140-5720-12

Matrix: Air | Lab File ID: EI01P113.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: | Dilution Factor: 1.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	4.2		0.39	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.39	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.39	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	0.73		0.39	
75-34-3	1,1-Dichloroethane	98.96	1.2		0.39	
75-35-4	1,1-Dichloroethene	96.94	ND		0.39	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.39	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.8		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.39	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.39	
107-06-2	1,2-Dichloroethane	98.96	ND		0.39	
78-87-5	1,2-Dichloropropane	112.99	ND		0.39	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.39	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.94		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.39	
106-46-7	1,4-Dichlorobenzene	147.00	18		0.39	
123-91-1	1,4-Dioxane	88.11	ND		0.98	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.98	
78-93-3	2-Butanone	72.11	9.4		1.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	cn	0.98	
71-43-2	Benzene	78.11	2.1		0.39	
100-44-7	Benzyl chloride	126.58	ND		0.78	
75-27-4	Bromodichloromethane	163.83	8.1		0.39	
75-25-2	Bromoform	252.75	ND		0.39	
74-83-9	Bromomethane	94.94	ND		0.39	
56-23-5	Carbon tetrachloride	153.81	ND		0.20	
108-90-7	Chlorobenzene	112.56	ND		0.39	
75-00-3	Chloroethane	64.52	ND		0.39	
67-66-3	Chloroform	119.38	27		0.39	
74-87-3	Chloromethane	50.49	ND		0.98	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.39	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.39	
110-82-7	Cyclohexane	84.16	1.3		0.98	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 | Lab Sample ID: 140-5720-12

Matrix: Air | Lab File ID: EI01P113.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: | Dilution Factor: 1.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	2.9		0.39	
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.39	
64-17-5	Ethanol	46.07	11		9.8	
100-41-4	Ethylbenzene	106.17	1.7		0.39	
87-68-3	Hexachlorobutadiene	260.76	ND		0.39	
110-54-3	Hexane	86.17	4.2		0.98	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.78	
75-09-2	Methylene Chloride	84.93	4.2		0.98	
179601-23-1	m-Xylene & p-Xylene	106.17	6.6		0.39	
95-47-6	o-Xylene	106.17	2.7		0.39	
100-42-5	Styrene	104.15	0.61		0.39	
75-65-0	t-Butyl alcohol	74.12	2.5		1.6	
127-18-4	Tetrachloroethene	165.83	33		0.39	
108-88-3	Toluene	92.14	7.5		0.59	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.39	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.39	
79-01-6	Trichloroethene	131.39	2.4		0.20	
75-69-4	Trichlorofluoromethane	137.37	0.75		0.39	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 | Lab Sample ID: 140-5720-12

Matrix: Air | Lab File ID: EI01P113.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: | Dilution Factor: 1.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	23		2.1	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7	
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.1	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	5.6		3.0	
75-34-3	1,1-Dichloroethane	98.96	4.8		1.6	
75-35-4	1,1-Dichloroethene	96.94	ND		1.6	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.9	
95-63-6	1,2,4-Trimethylbenzene	120.20	14		1.9	
106-93-4	1,2-Dibromoethane	187.87	ND		3.0	
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4	
107-06-2	1,2-Dichloroethane	98.96	ND		1.6	
78-87-5	1,2-Dichloropropane	112.99	ND		1.8	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.7	
108-67-8	1,3,5-Trimethylbenzene	120.20	4.6		1.9	
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4	
106-46-7	1,4-Dichlorobenzene	147.00	110		2.4	
123-91-1	1,4-Dioxane	88.11	ND		3.5	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.6	
78-93-3	2-Butanone	72.11	28		4.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	5.0	cn	4.0	
71-43-2	Benzene	78.11	6.7		1.3	
100-44-7	Benzyl chloride	126.58	ND		4.1	
75-27-4	Bromodichloromethane	163.83	54		2.6	
75-25-2	Bromoform	252.75	ND		4.1	
74-83-9	Bromomethane	94.94	ND		1.5	
56-23-5	Carbon tetrachloride	153.81	ND		1.2	
108-90-7	Chlorobenzene	112.56	ND		1.8	
75-00-3	Chloroethane	64.52	ND		1.0	
67-66-3	Chloroform	119.38	130		1.9	
74-87-3	Chloromethane	50.49	ND		2.0	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8	
110-82-7	Cyclohexane	84.16	4.5		3.4	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 Lab Sample ID: 140-5720-12

Matrix: Air Lab File ID: EI01P113.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: Dilution Factor: 1.47

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	25		3.3	
75-71-8	Dichlorodifluoromethane	120.91	2.3		1.9	
64-17-5	Ethanol	46.07	20		18	
100-41-4	Ethylbenzene	106.17	7.3		1.7	
87-68-3	Hexachlorobutadiene	260.76	ND		4.2	
110-54-3	Hexane	86.17	15		3.5	
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.8	
75-09-2	Methylene Chloride	84.93	15		3.4	
179601-23-1	m-Xylene & p-Xylene	106.17	29		1.7	
95-47-6	o-Xylene	106.17	12		1.7	
100-42-5	Styrene	104.15	2.6		1.7	
75-65-0	t-Butyl alcohol	74.12	7.6		4.8	
127-18-4	Tetrachloroethene	165.83	220		2.7	
108-88-3	Toluene	92.14	28		2.2	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8	
79-01-6	Trichloroethene	131.39	13		1.1	
75-69-4	Trichlorofluoromethane	137.37	4.2		2.2	
75-01-4	Vinyl chloride	62.50	ND		0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D
Lims ID: 140-5720-A-12
Client ID: SG-220
Sample Type: Client
Inject. Date: 01-Sep-2016 21:12:30 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Sample Info: 140-0003369-016
Misc. Info.: 140-5720-a-12@1.47
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 12:27:47 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:28:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	79	298699	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1422859	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1314807	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	89	1075877	4.00	
8 Dichlorodifluoromethane	85	2.952	2.946	0.006	98	29607	0.0943	
17 Ethanol	31	3.782	3.777	0.005	99	45865	2.17	
20 Trichlorofluoromethane	101	4.170	4.165	0.005	99	46498	0.1529	
27 1,1-Dichloroethene	96	4.785	4.780	0.005	32	2006	0.0220	
28 2-Methyl-2-propanol	59	4.888	4.877	0.011	94	63075	0.5100	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.942	0.005	96	29444	0.1499	
31 Methylene Chloride	84	5.114	5.103	0.011	79	80312	0.8572	
37 1,1-Dichloroethane	63	6.284	6.279	0.005	99	40253	0.2424	
39 2-Butanone (MEK)	72	6.829	6.834	-0.005	96	83379	1.92	
40 Hexane	56	6.845	6.840	0.005	78	50292	0.8620	
44 Chloroform	83	7.584	7.584	0.000	96	1361650	5.47	
47 1,1,1-Trichloroethane	97	8.597	8.598	-0.001	94	237001	0.8492	
50 Cyclohexane	69	9.201	9.196	0.005	55	12749	0.2644	
51 Benzene	78	9.201	9.202	-0.001	94	125035	0.4288	
56 Isooctane	57	10.043	10.037	0.006	90	60330	0.1780	
59 Trichloroethene	130	10.582	10.582	0.000	93	62375	0.4893	
61 Dichlorobromomethane	83	10.835	10.835	0.000	97	406990	1.65	
65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	91	28597	0.2501	
68 Toluene	91	12.777	12.777	0.000	94	483588	1.53	
74 Chlorodibromomethane	129	13.585	13.586	-0.001	97	120472	0.5914	
76 Tetrachloroethene	129	13.963	13.963	0.000	96	822610	6.71	
79 Ethylbenzene	91	15.165	15.166	-0.001	98	144956	0.3425	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	99	447417	1.36	
83 Bromoform	173	15.764	15.769	-0.005	88	5349	0.0270	
84 Styrene	104	15.796	15.802	-0.006	94	26666	0.1254	
85 o-Xylene	91	15.861	15.861	0.000	98	193242	0.5580	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	92	38549	0.1920	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
96 1,2,4-Trimethylbenzene	105	17.727	17.732	-0.005	98	210153	0.5654	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	91	790583	3.60	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

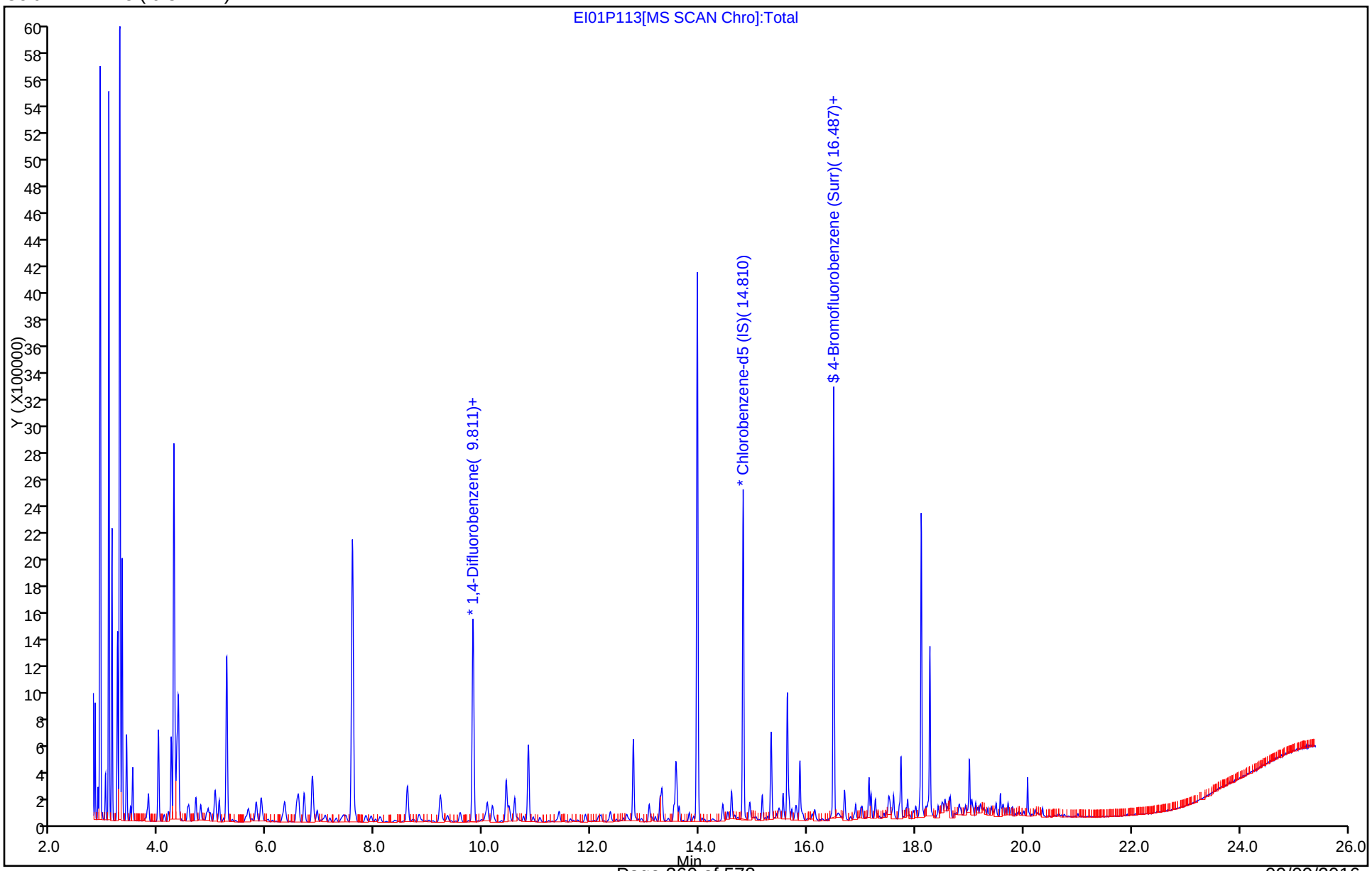
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D

Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12	Worklist Smp#:	16
Client ID:	SG-220				
Purge Vol:	500.000 mL	Dil. Factor:	1.4700	ALS Bottle#:	13
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



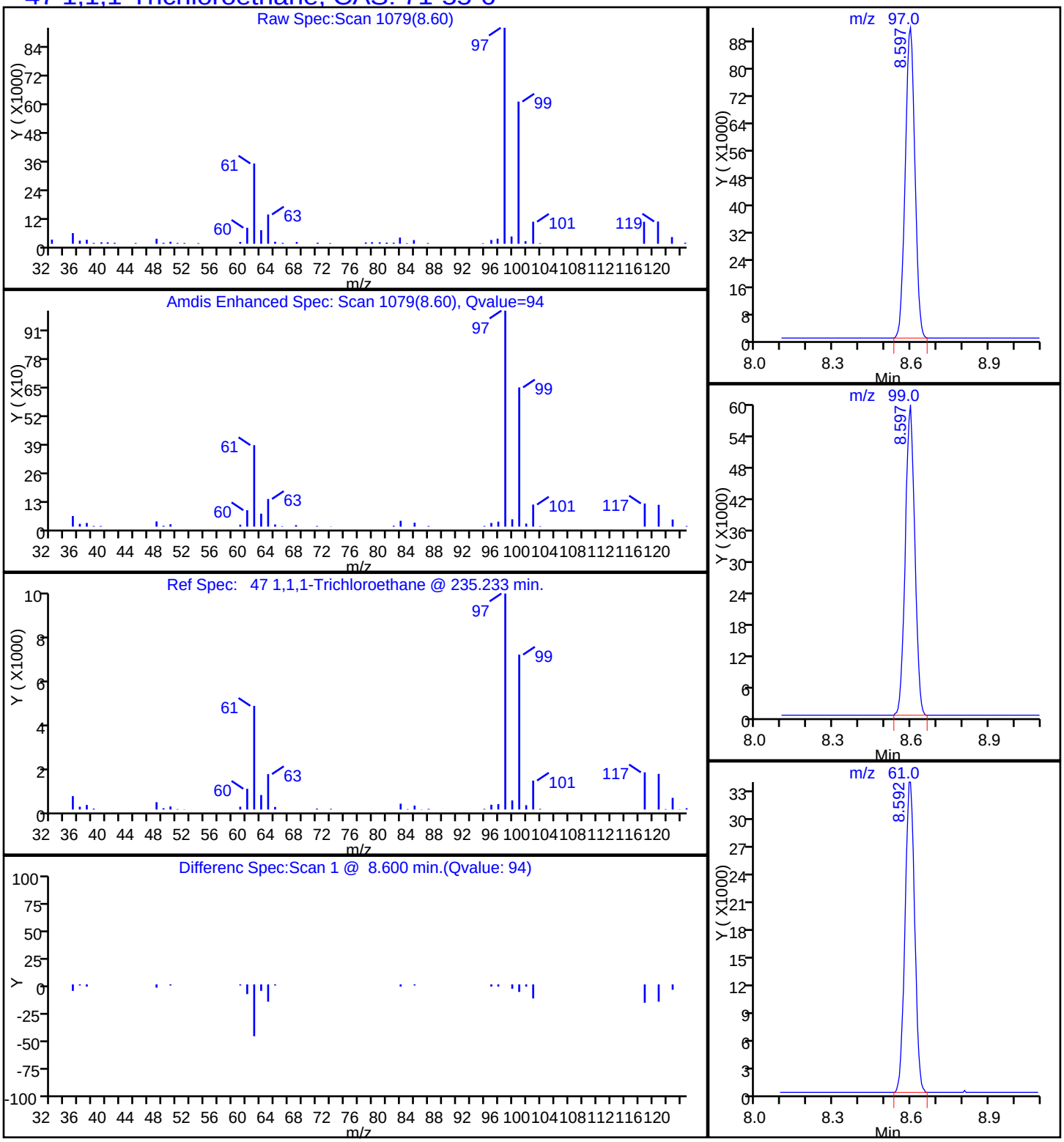
TestAmerica Knoxville
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D				
Lims ID:	140-5720-A-12				
Client ID:	SG-220				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 21:12:30	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Sample Info:	140-0003369-016				
Misc. Info.:	140-5720-a-12@1.47				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 12:27:47	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: barlozhetskayaa		Date:	02-Sep-2016 12:28:21		

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.00	99.97

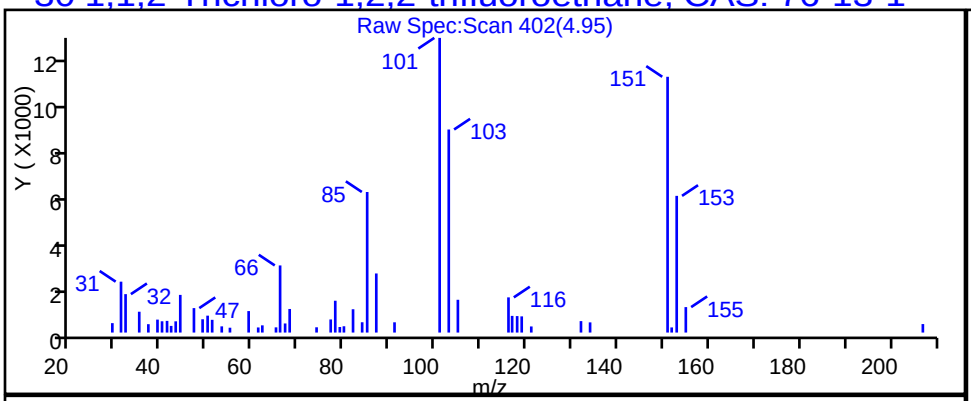
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Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

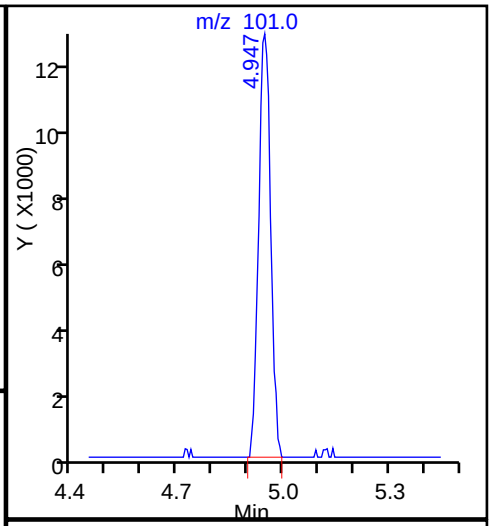
47 1,1,1-Trichloroethane, CAS: 71-55-6

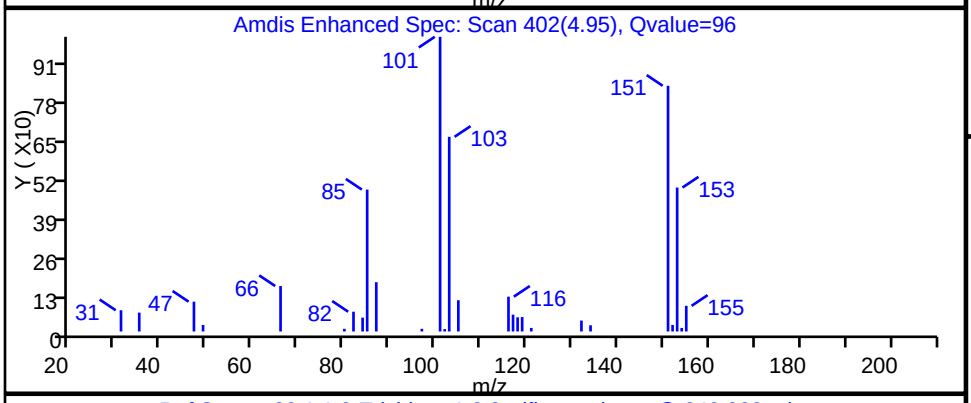


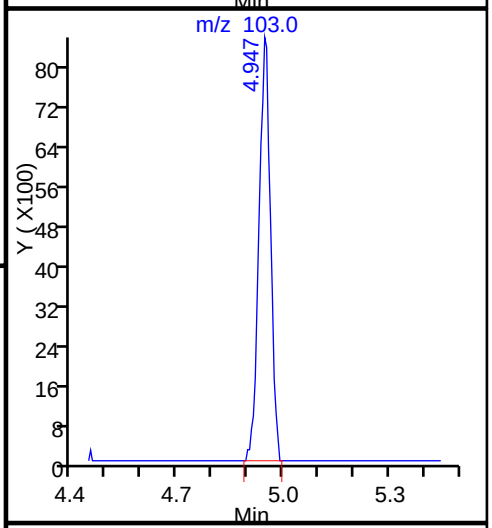
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Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

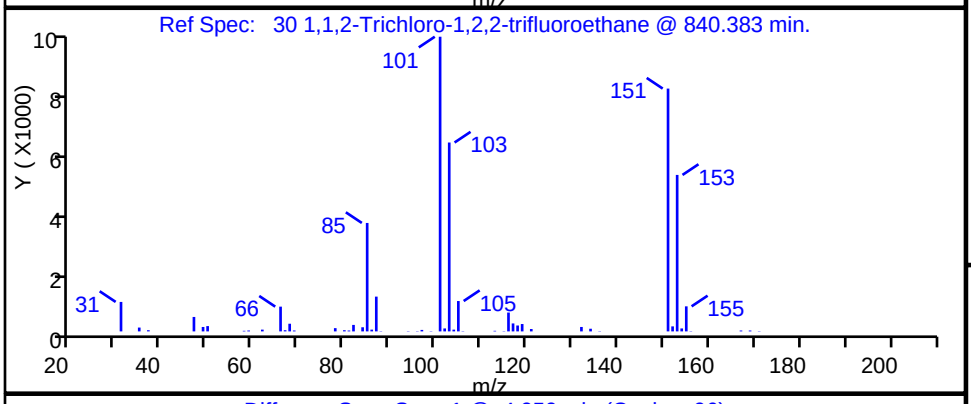
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

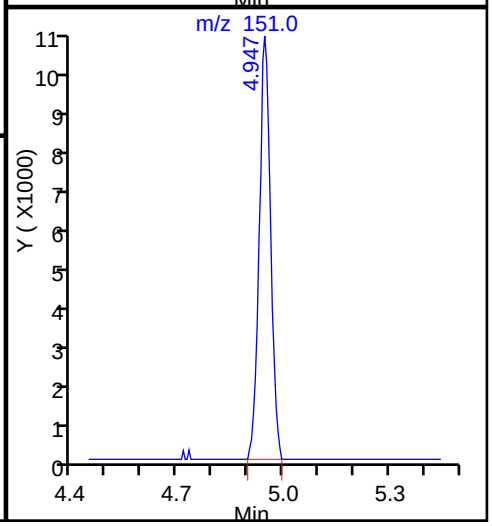


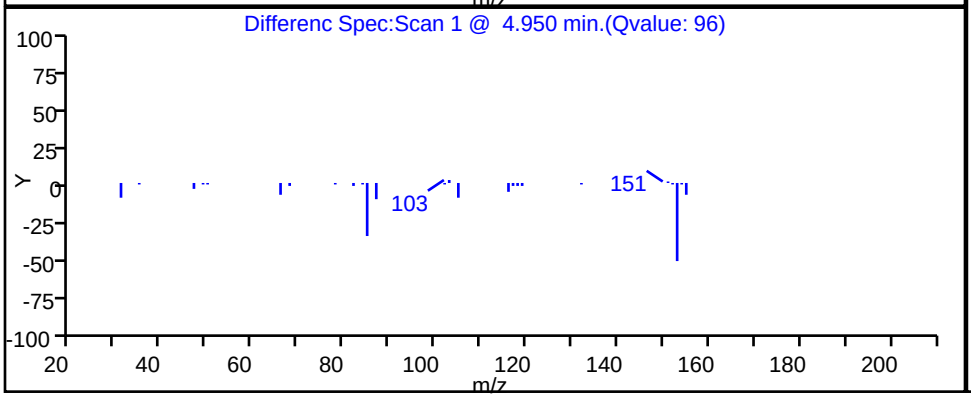








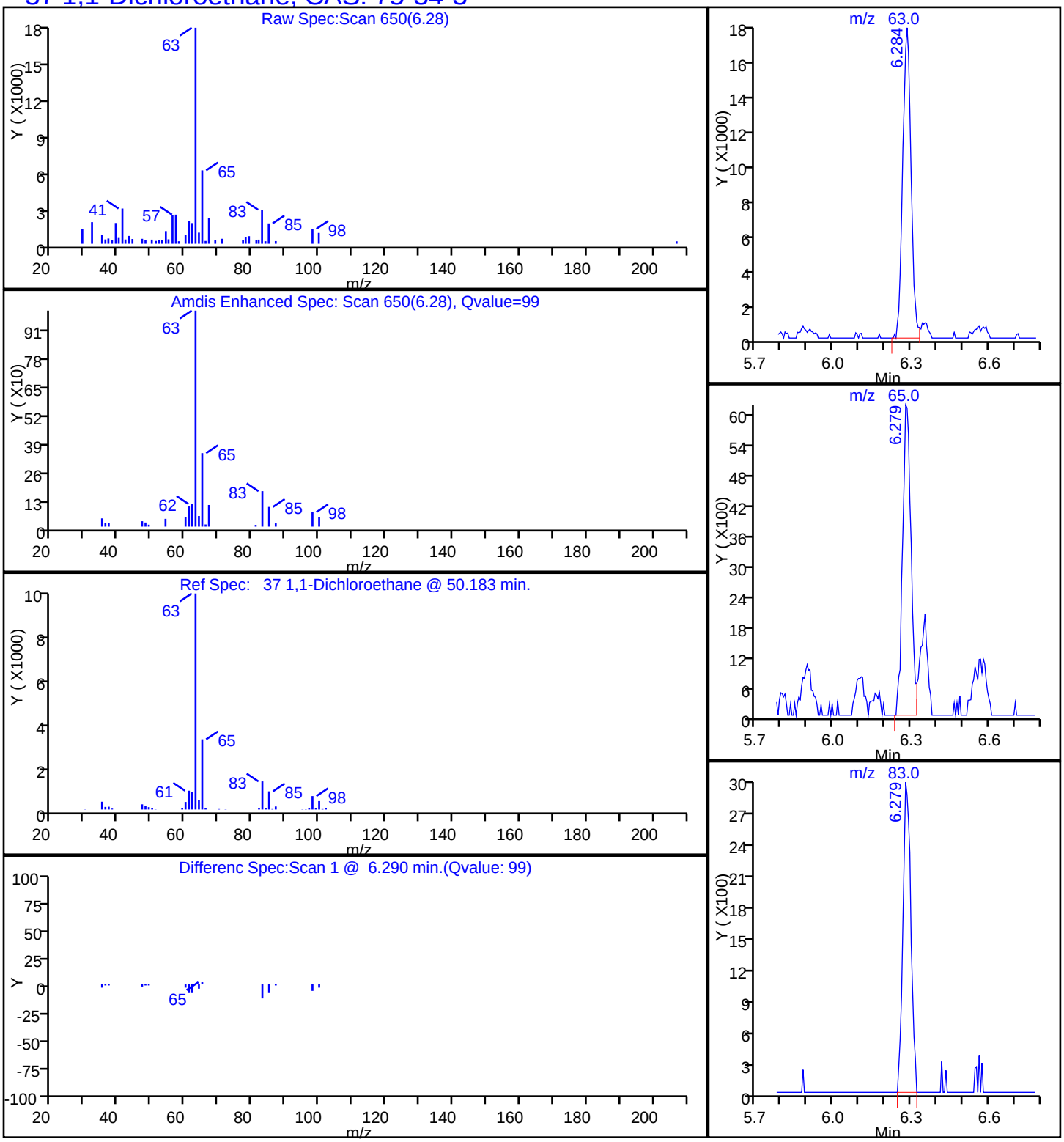




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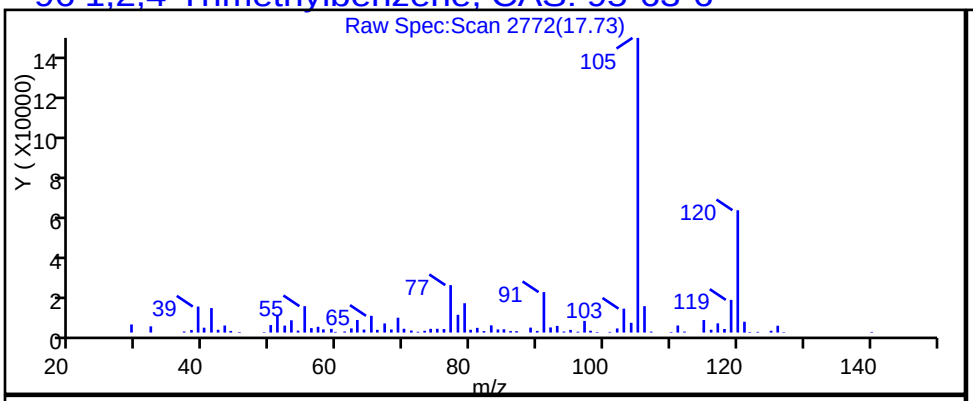
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Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

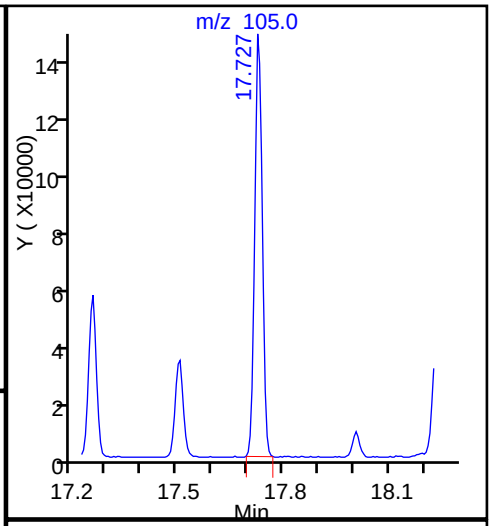
37 1,1-Dichloroethane, CAS: 75-34-3

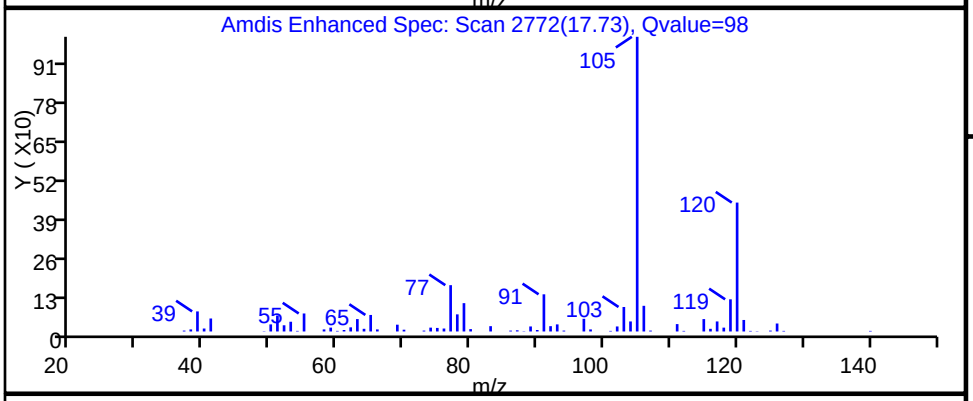


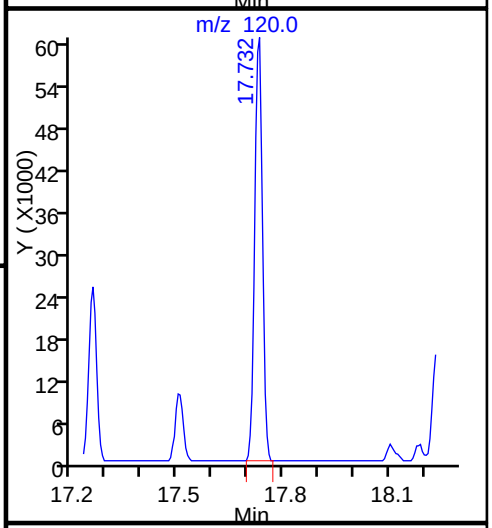
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Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

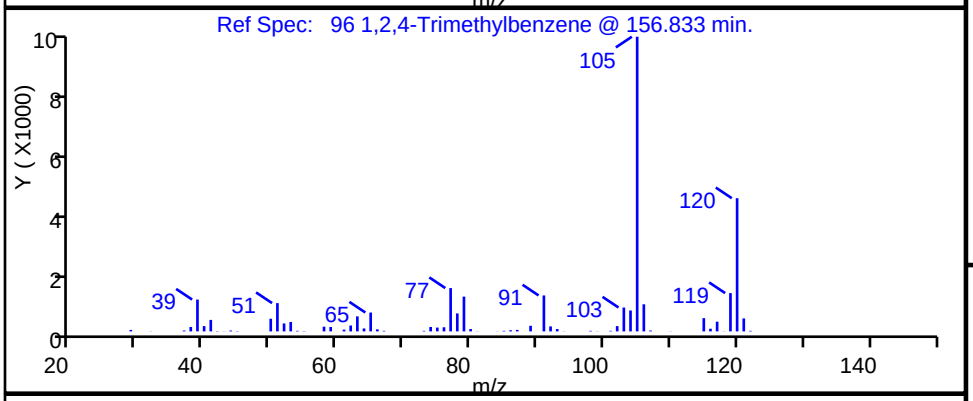
96 1,2,4-Trimethylbenzene, CAS: 95-63-6

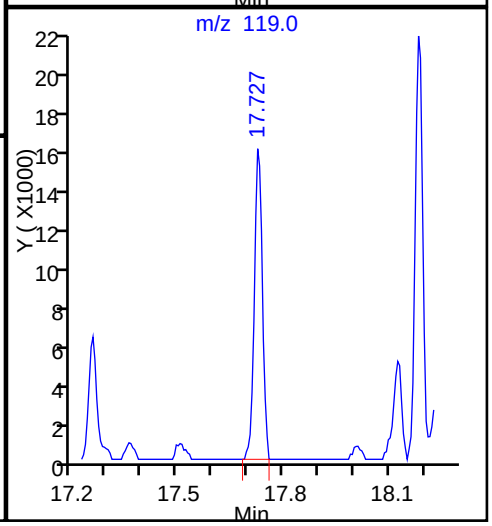


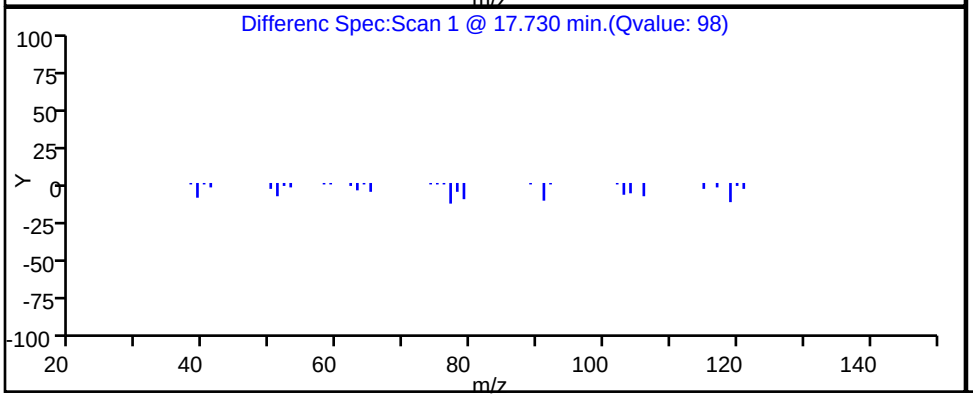






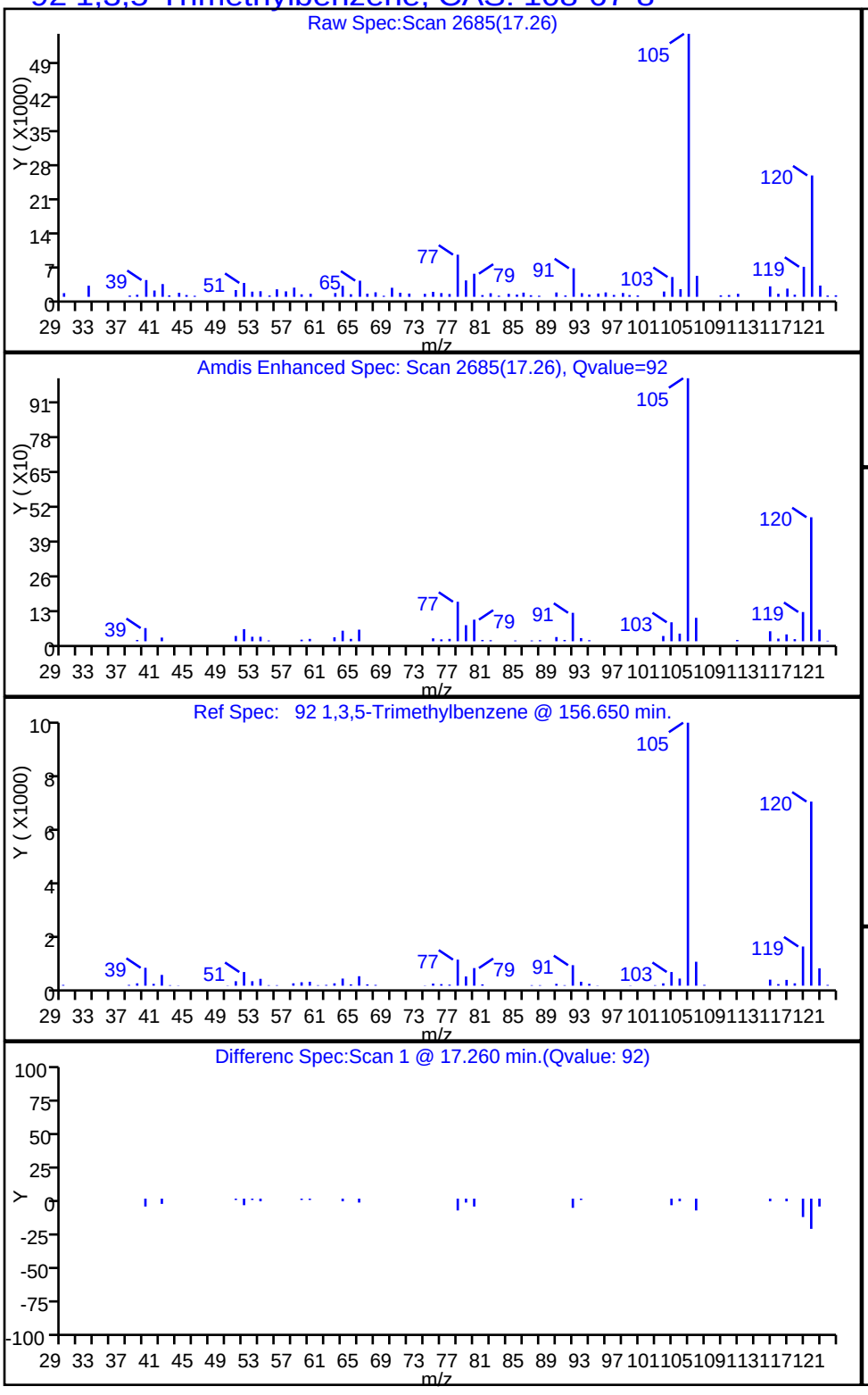


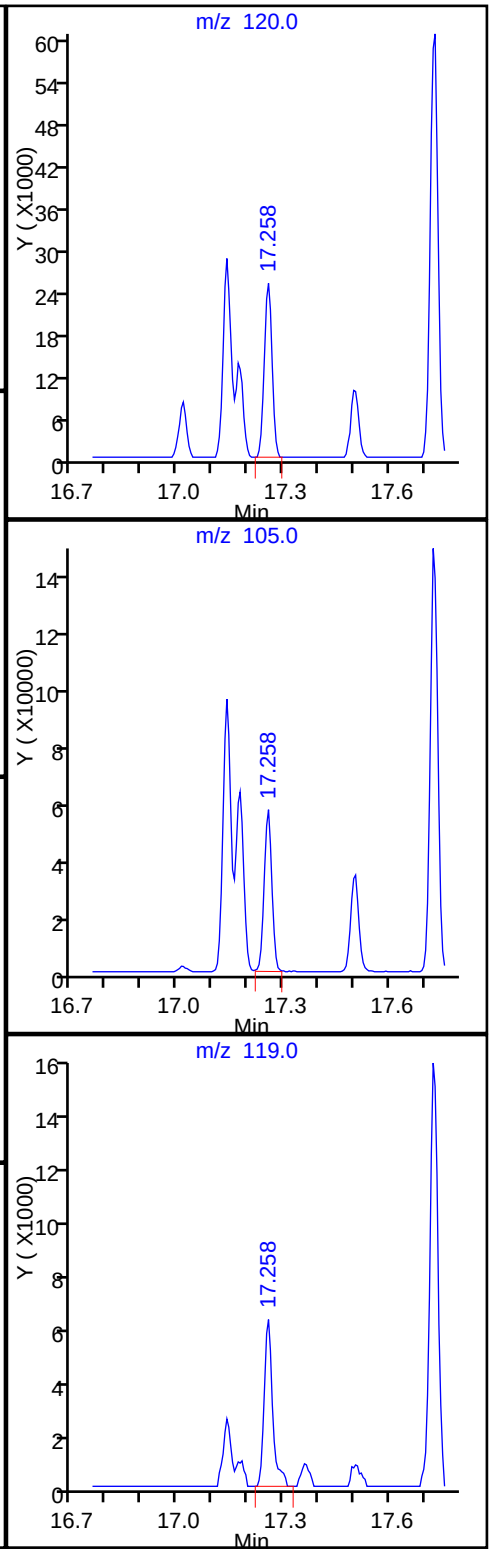




Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D
Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

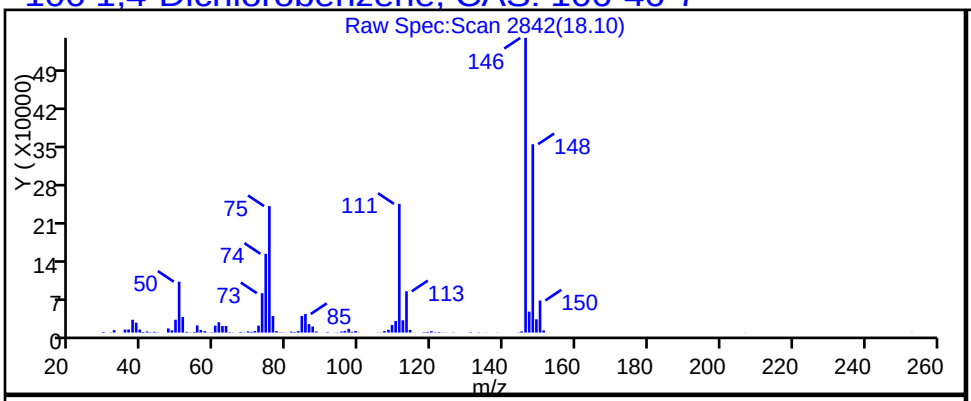
92 1,3,5-Trimethylbenzene, CAS: 108-67-8

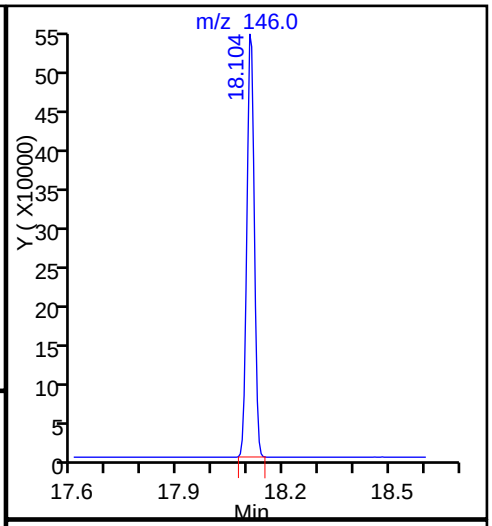


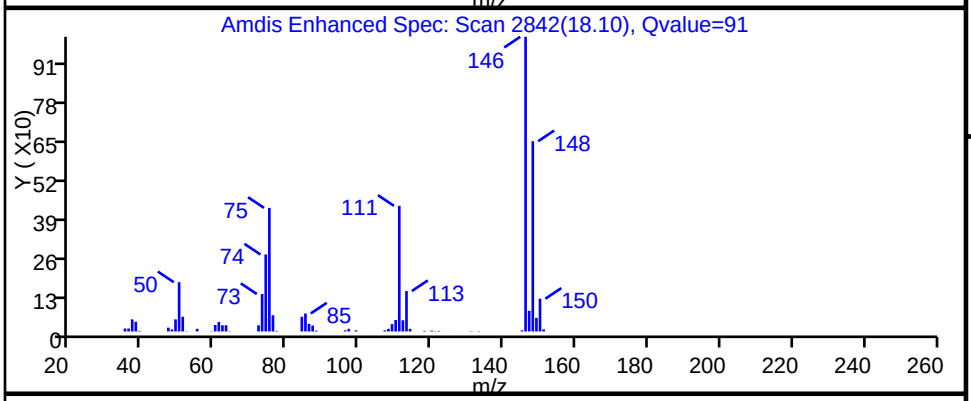


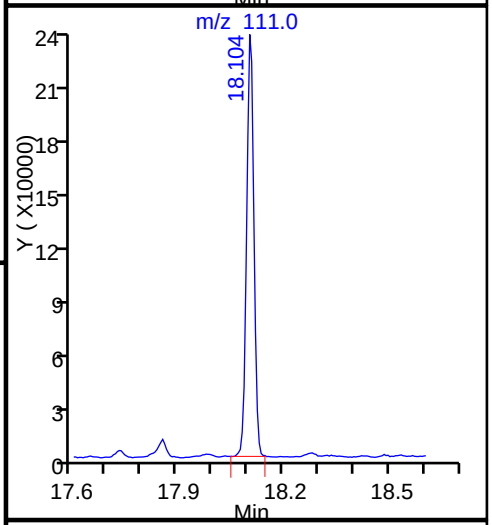
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Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

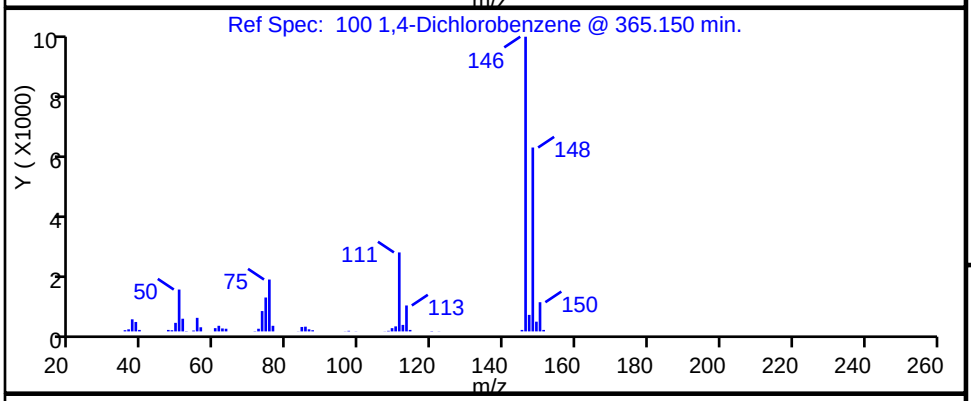
100 1,4-Dichlorobenzene, CAS: 106-46-7

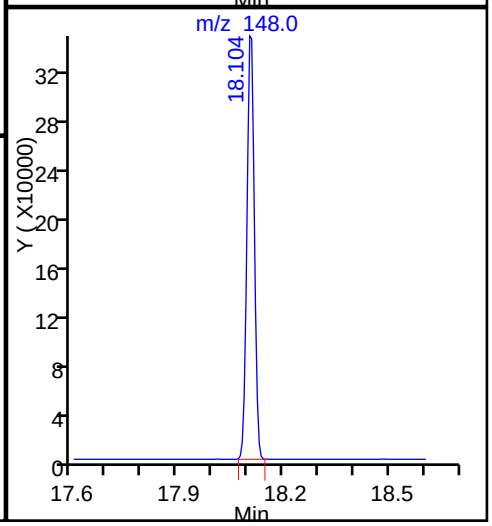


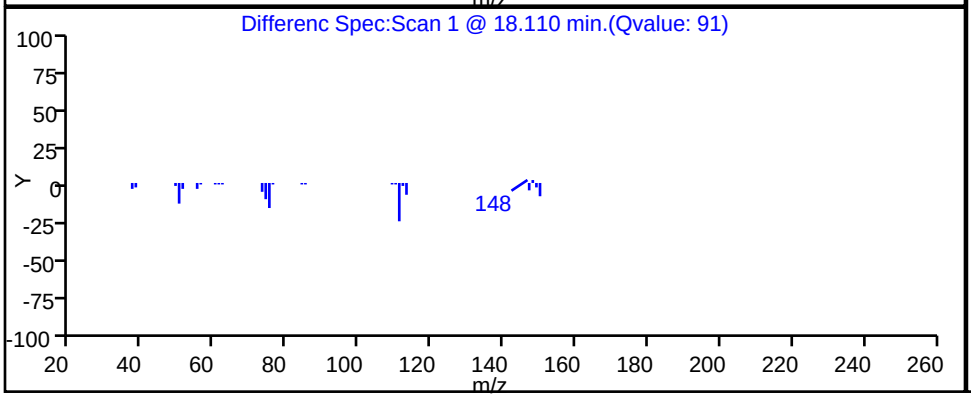








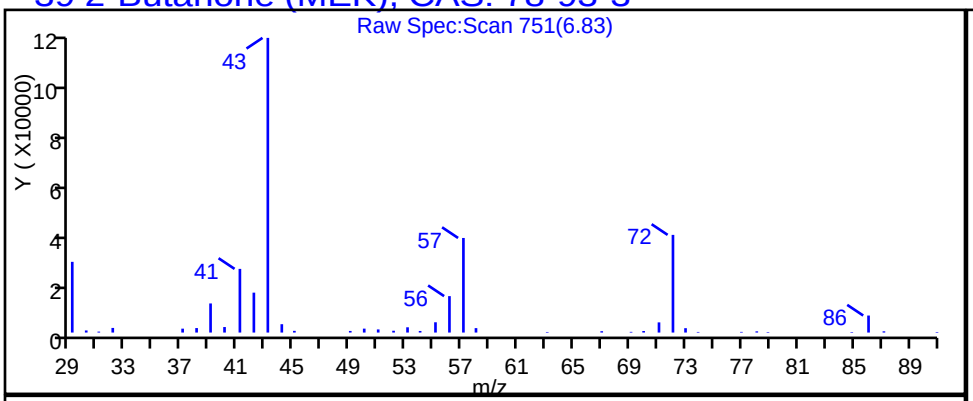


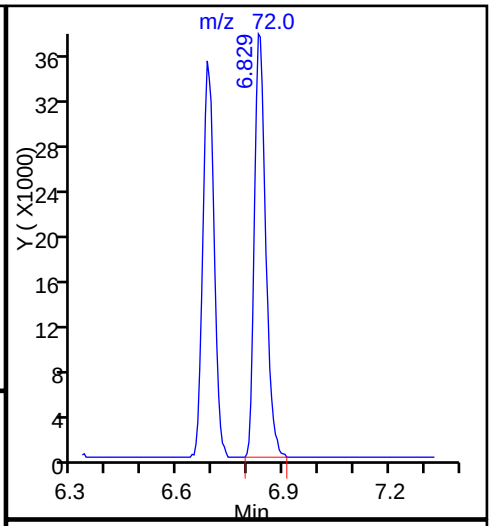


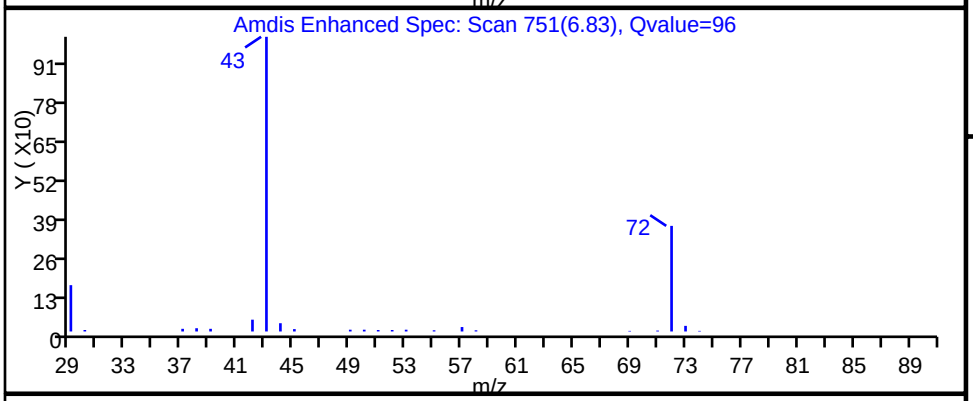
TestAmerica Knoxville

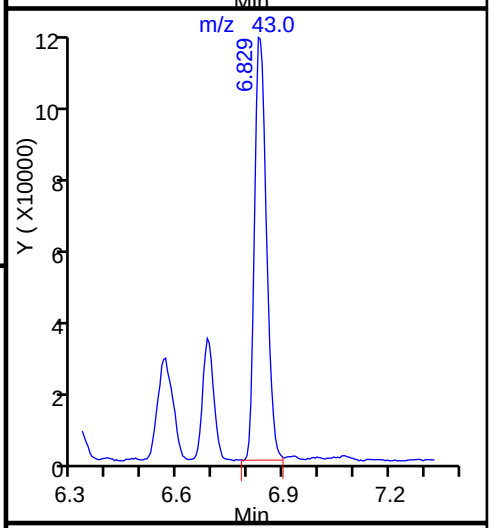
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Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

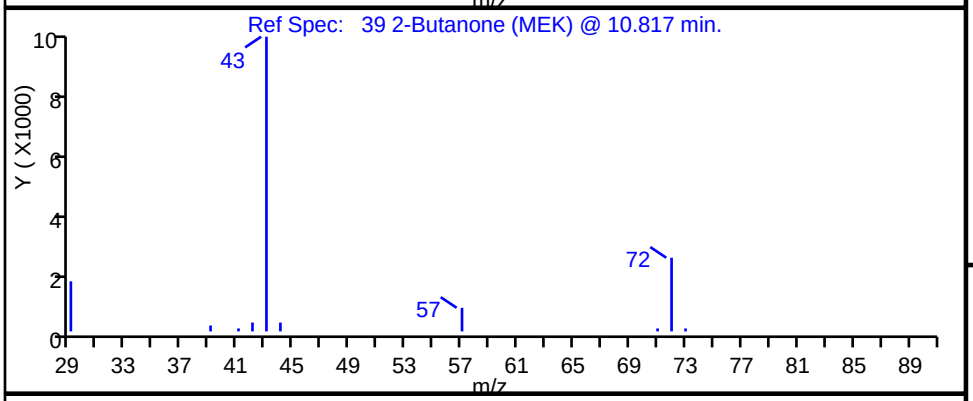
39 2-Butanone (MEK), CAS: 78-93-3

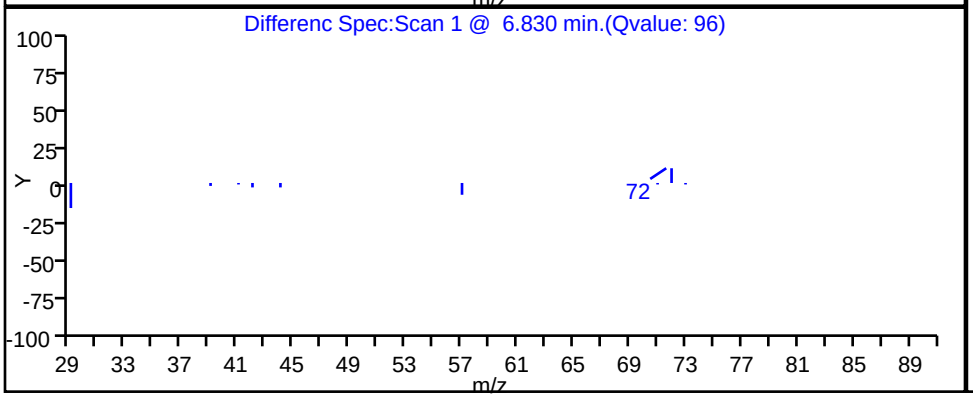


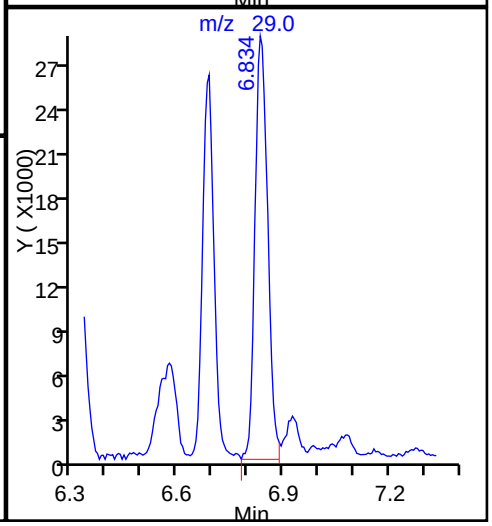








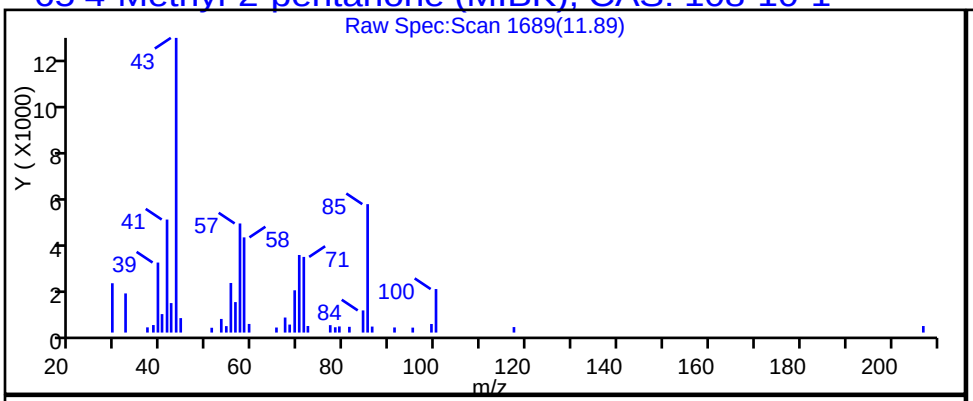


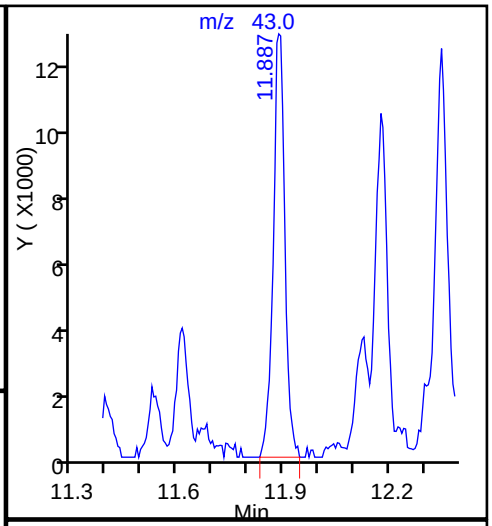


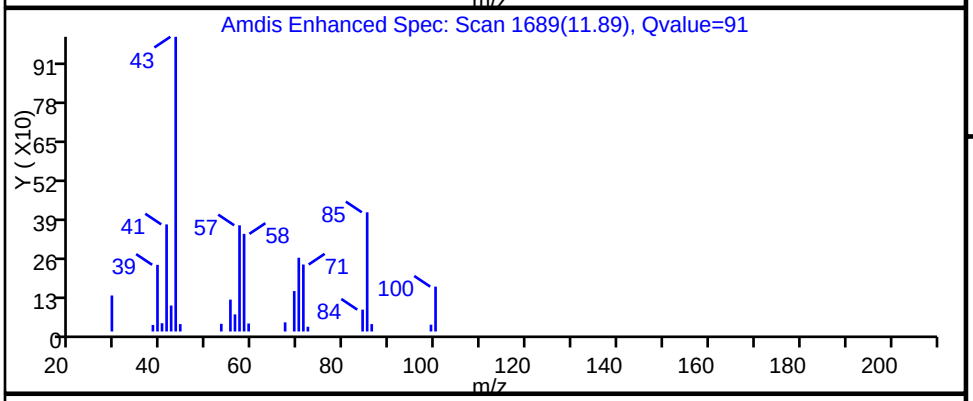
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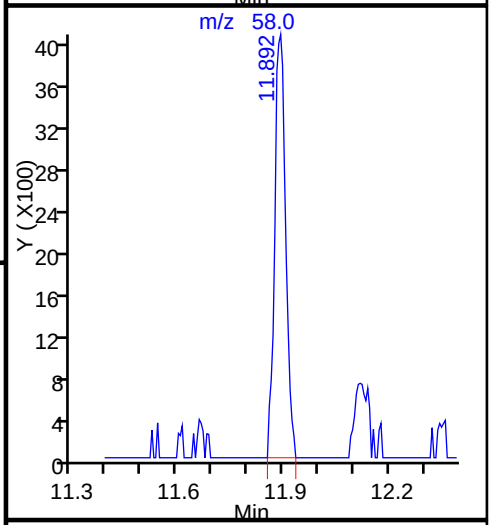
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Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

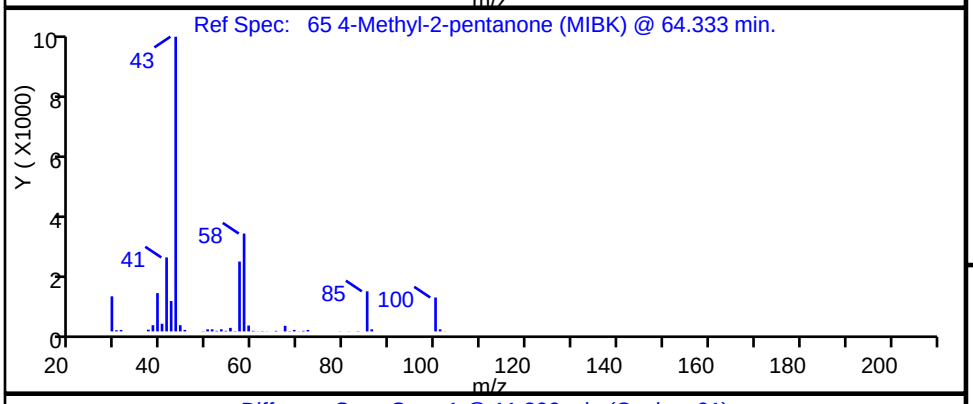
65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

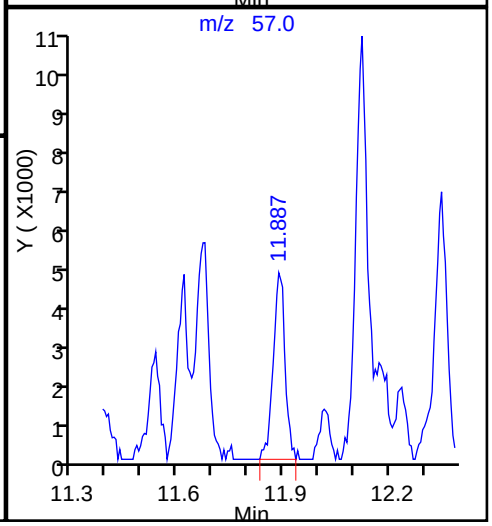


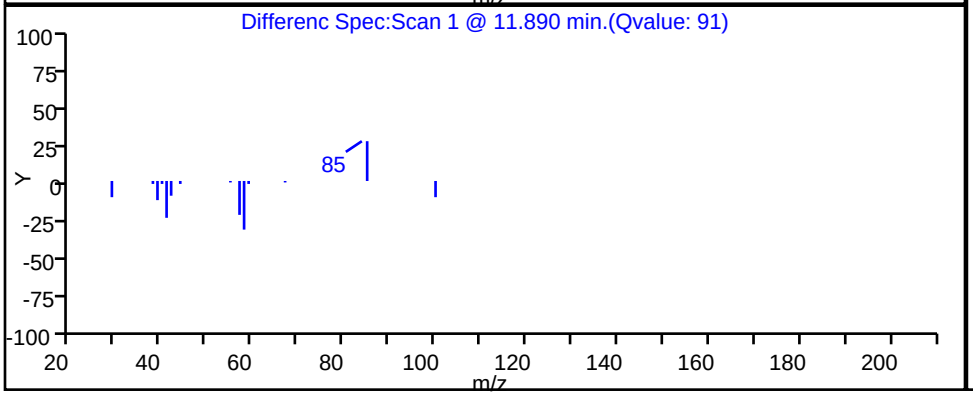








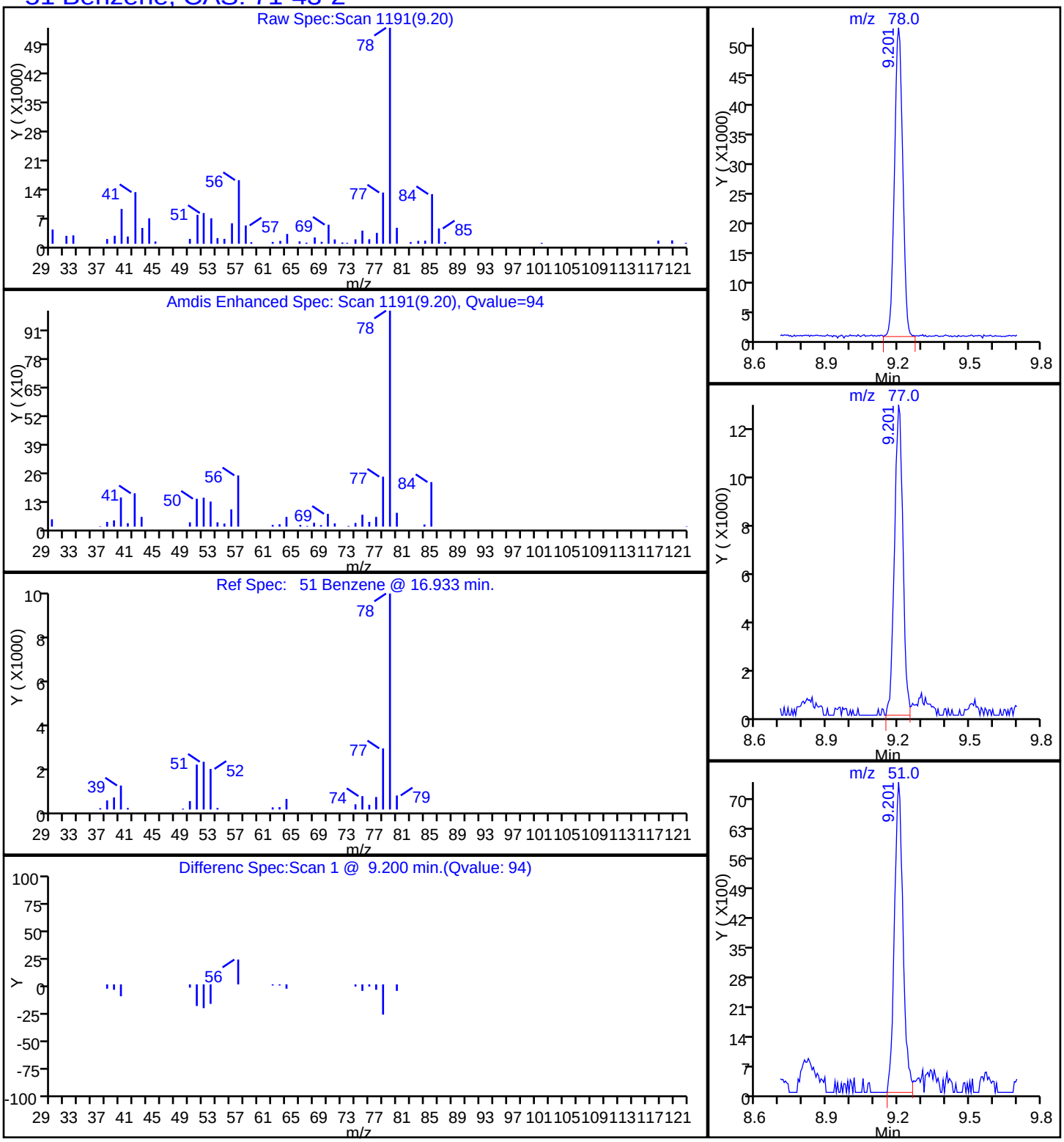




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Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D				
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Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

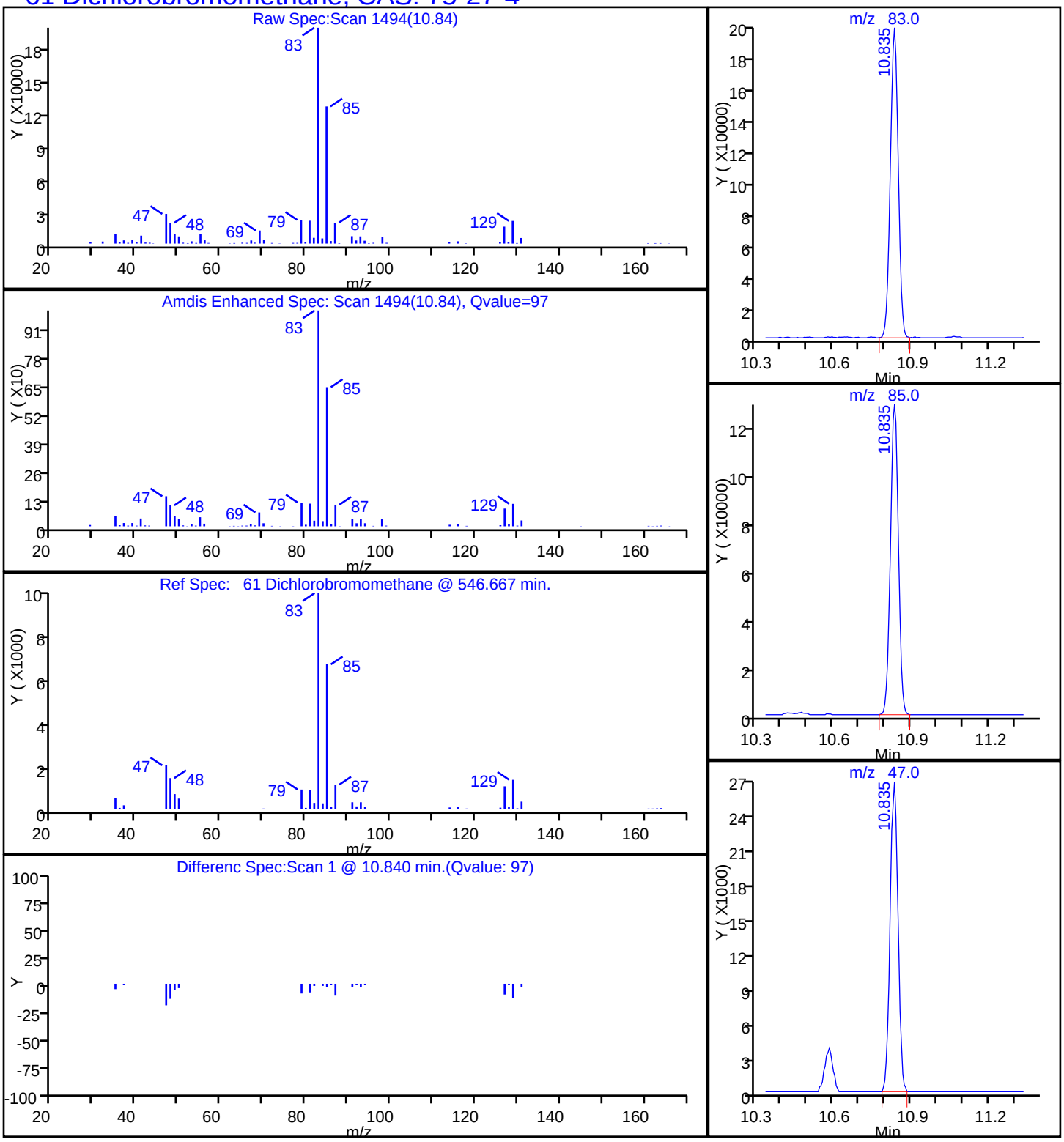
51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

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Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

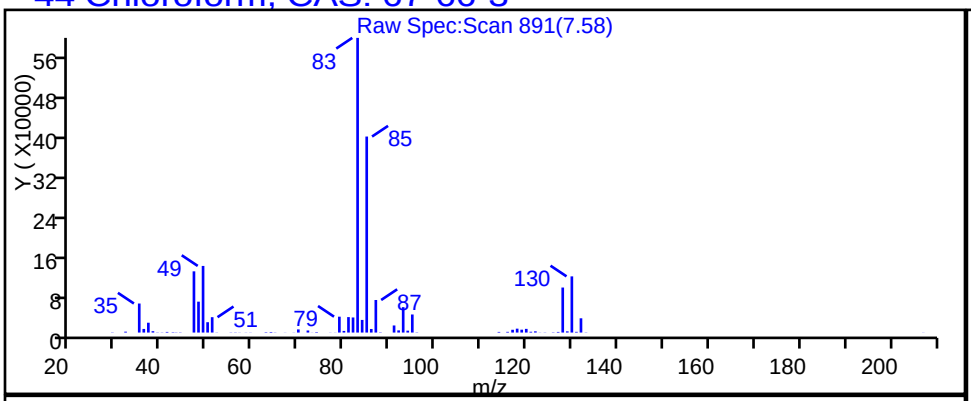
61 Dichlorobromomethane, CAS: 75-27-4

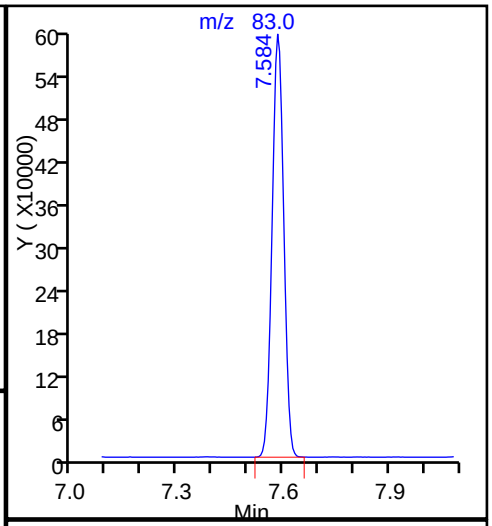


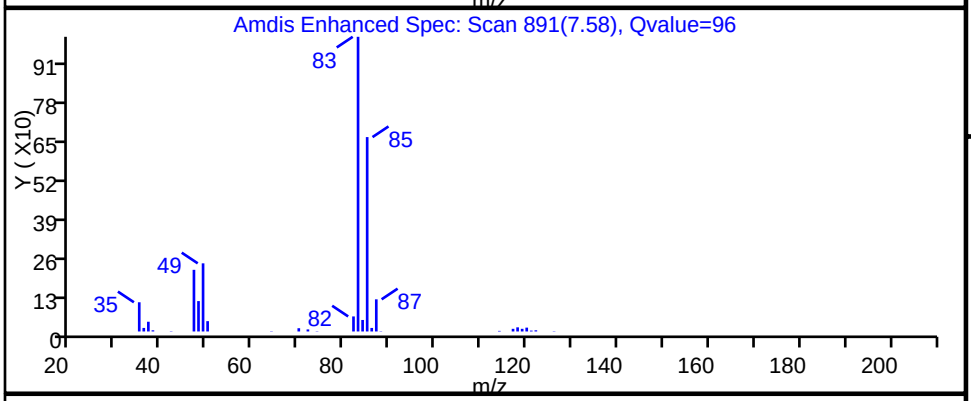
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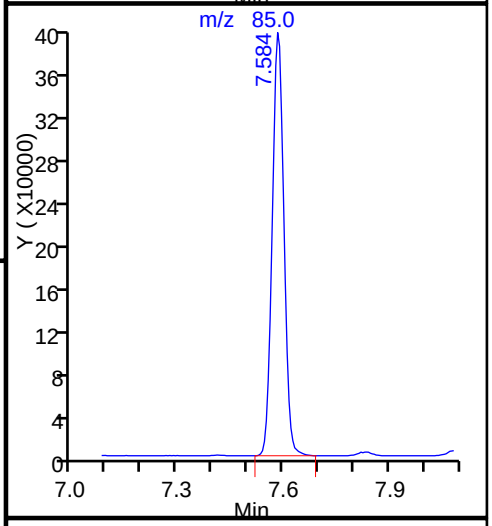
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Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12
Client ID:	SG-220		
Operator ID:	007126	ALS Bottle#:	13 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

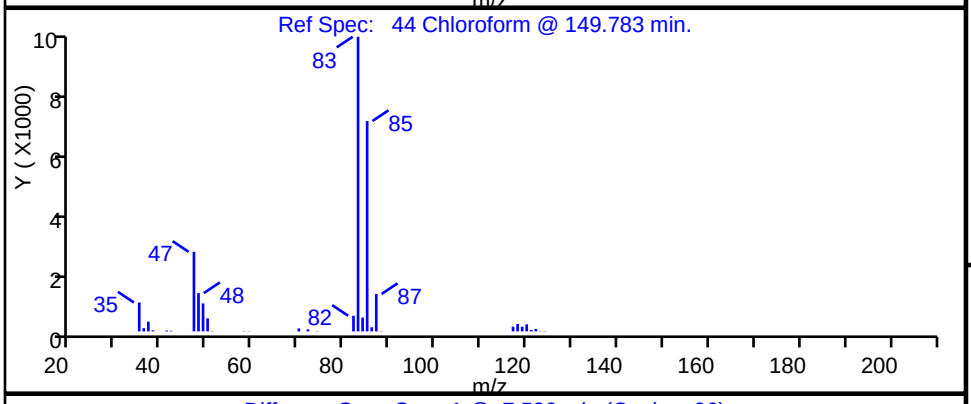
44 Chloroform, CAS: 67-66-3

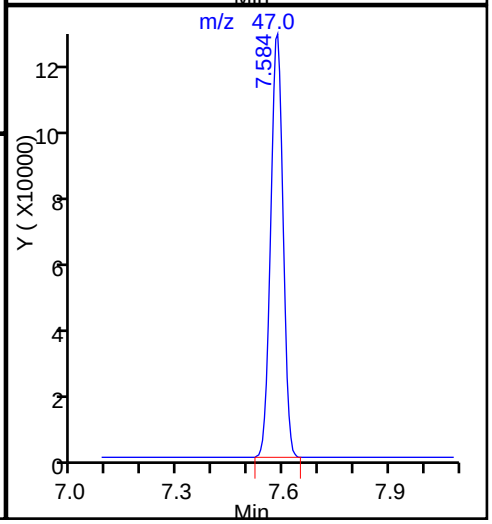


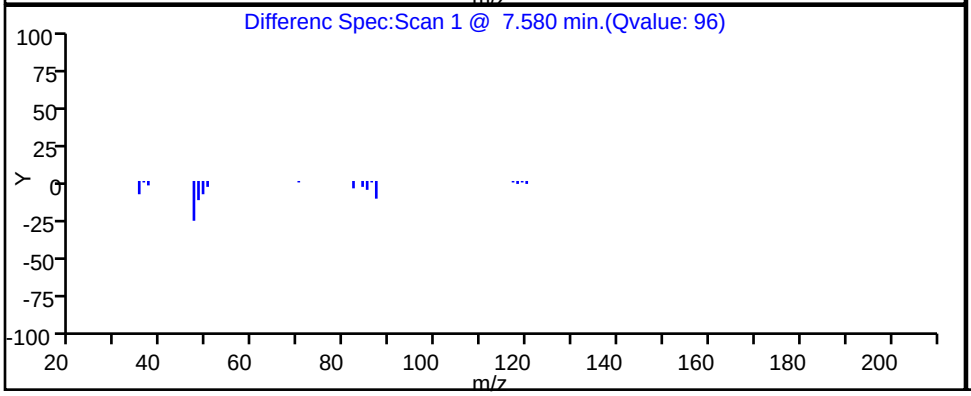








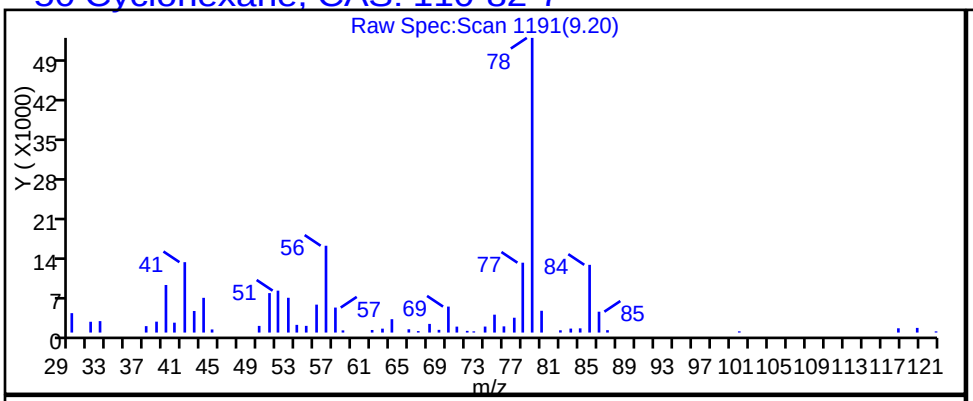


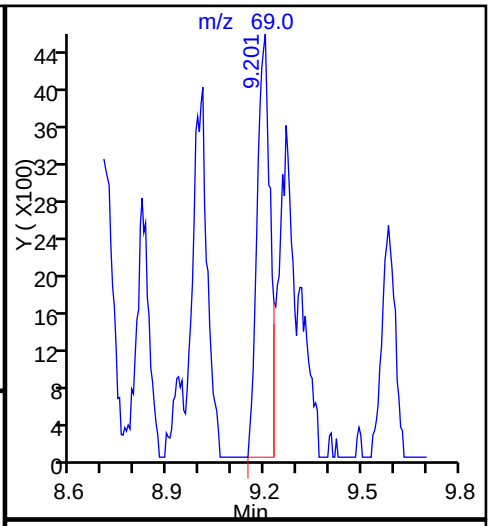


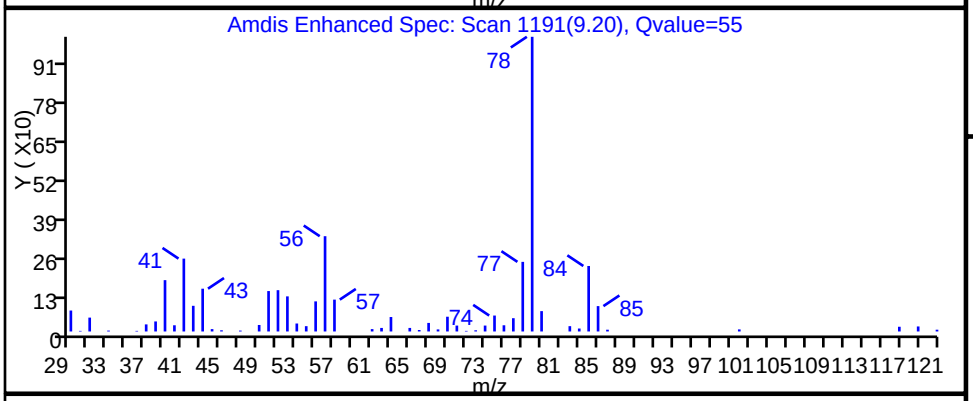
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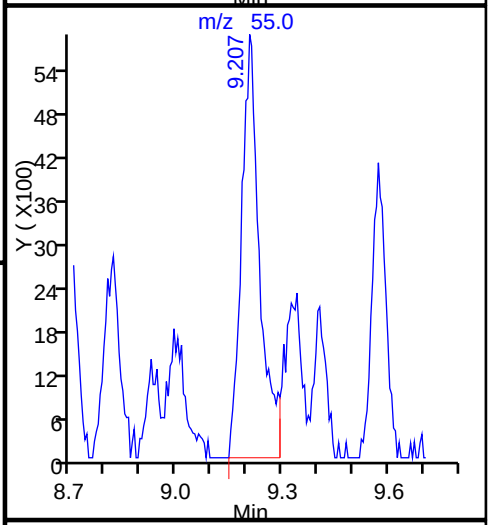
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Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12
Client ID:	SG-220		
Operator ID:	007126	ALS Bottle#:	13 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

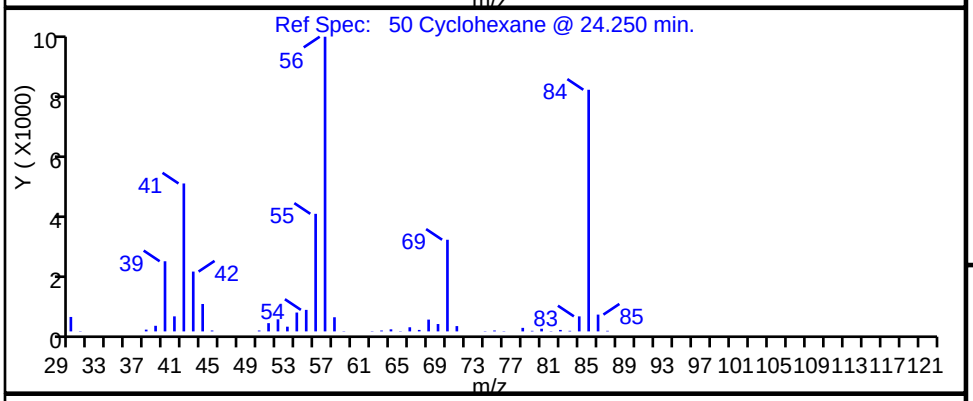
50 Cyclohexane, CAS: 110-82-7

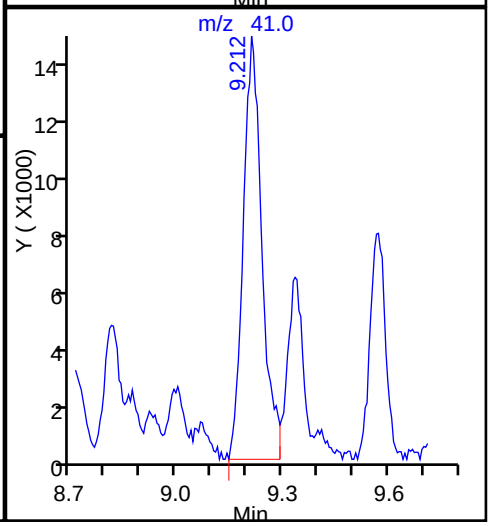


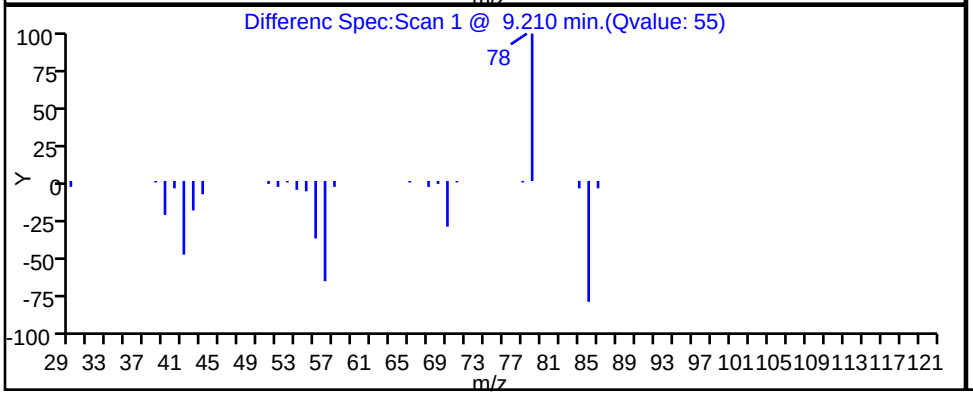






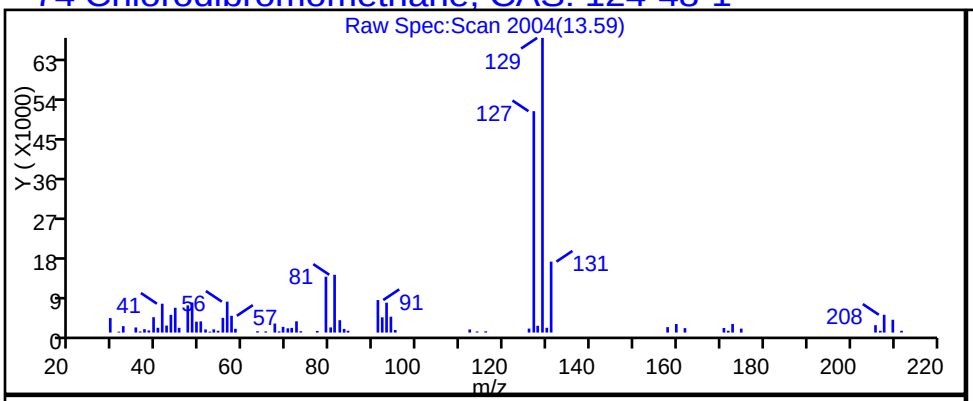


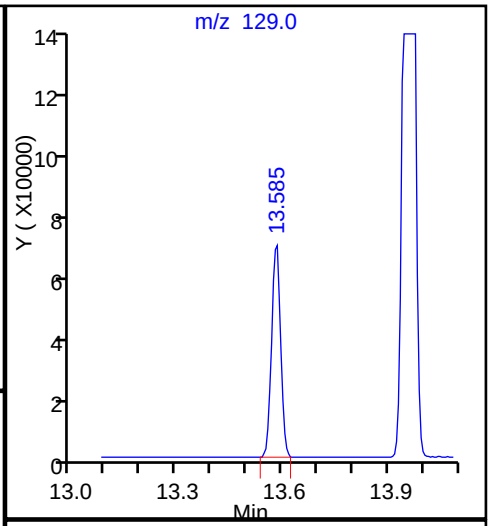


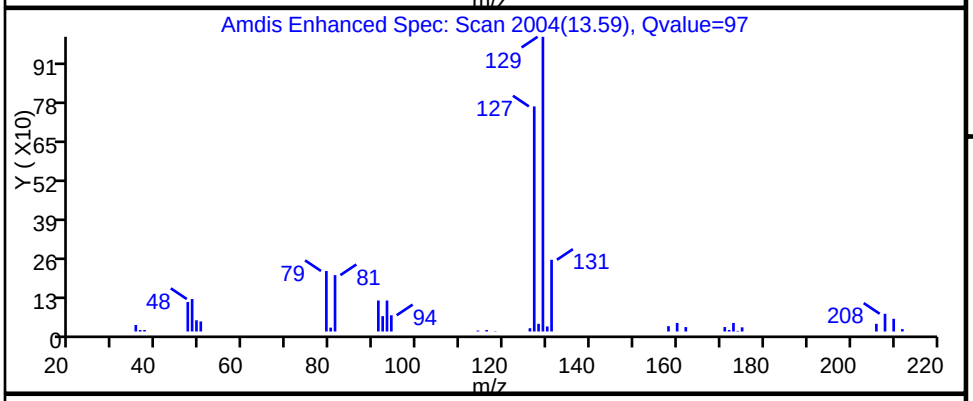


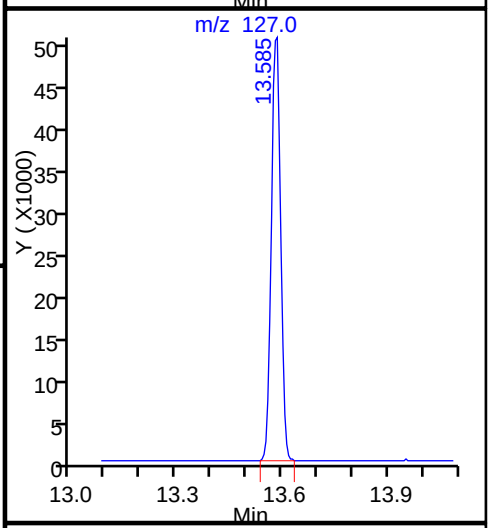
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Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

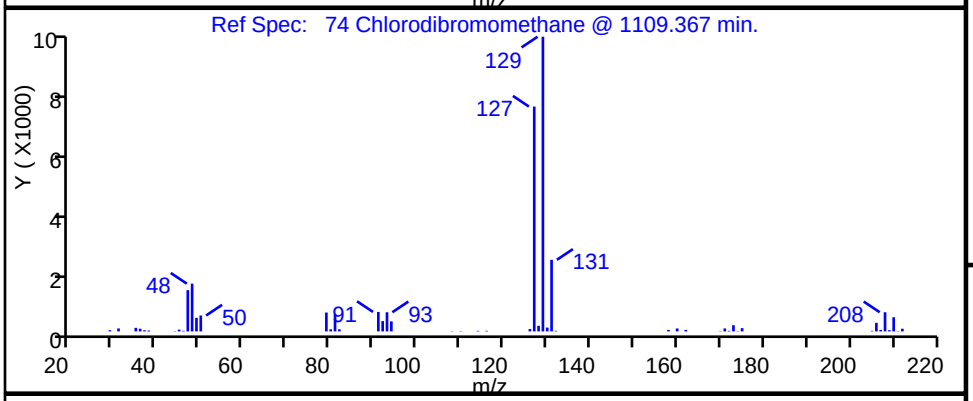
74 Chlorodibromomethane, CAS: 124-48-1

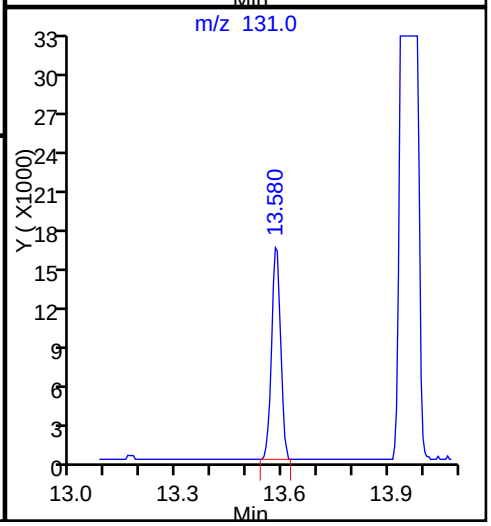


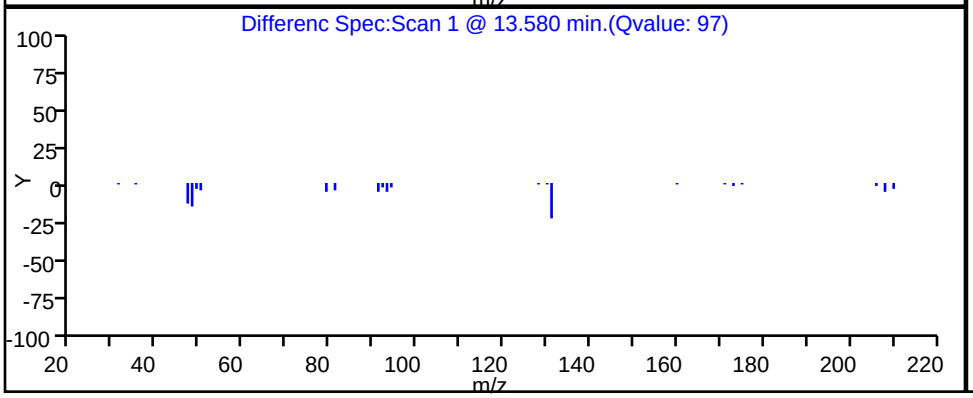








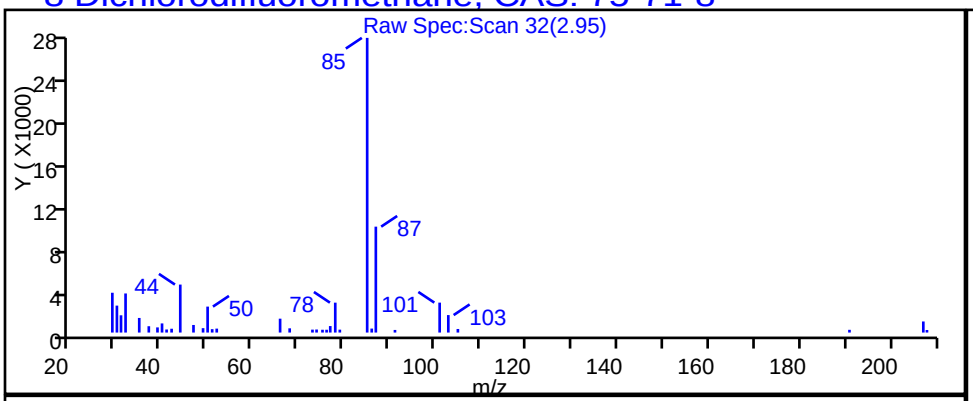


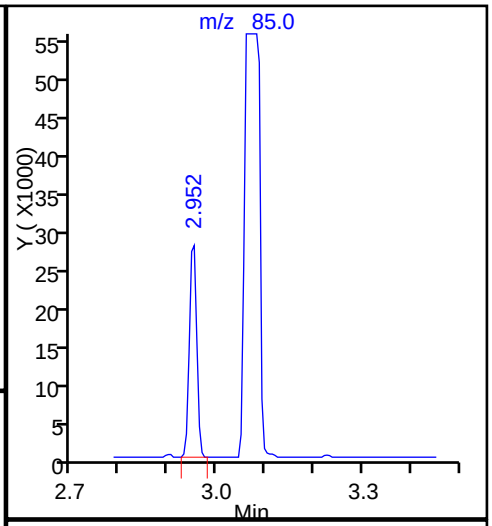


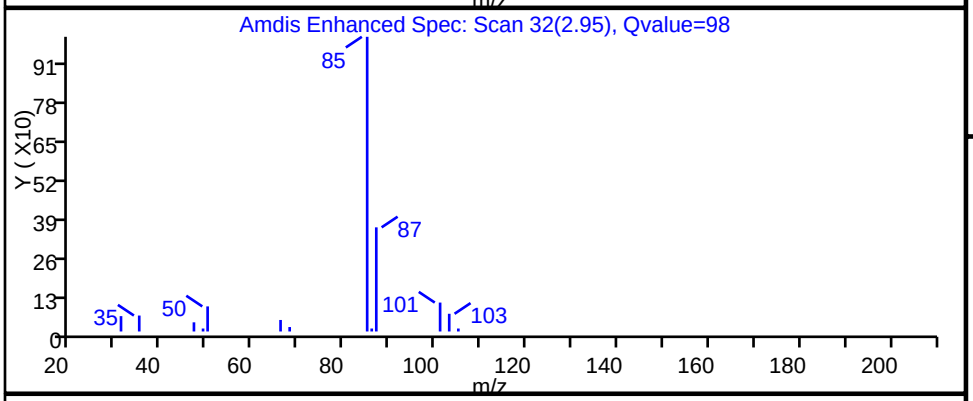
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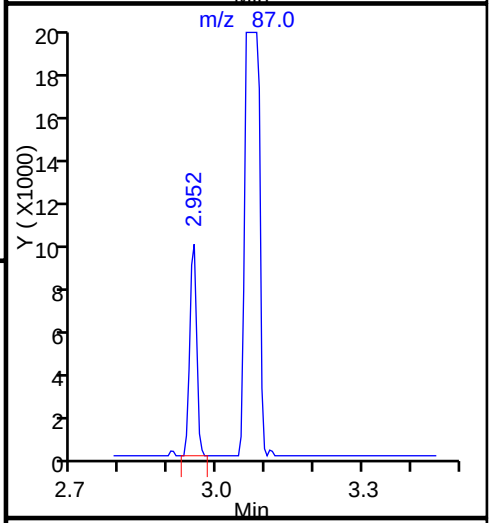
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Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

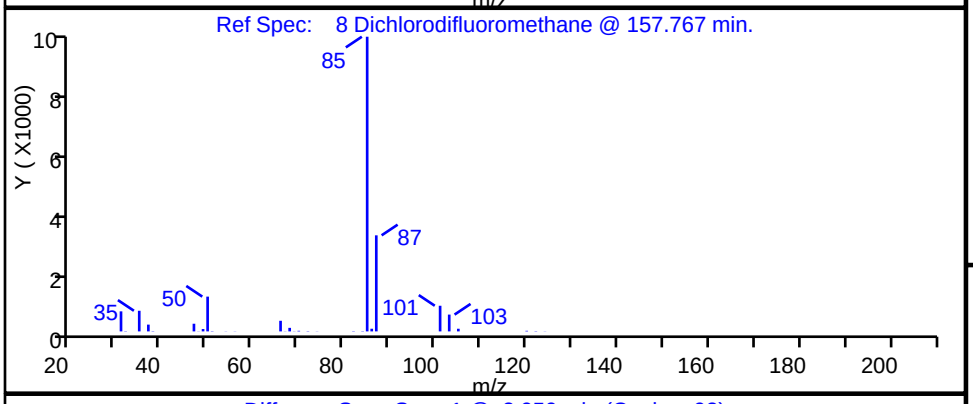
8 Dichlorodifluoromethane, CAS: 75-71-8

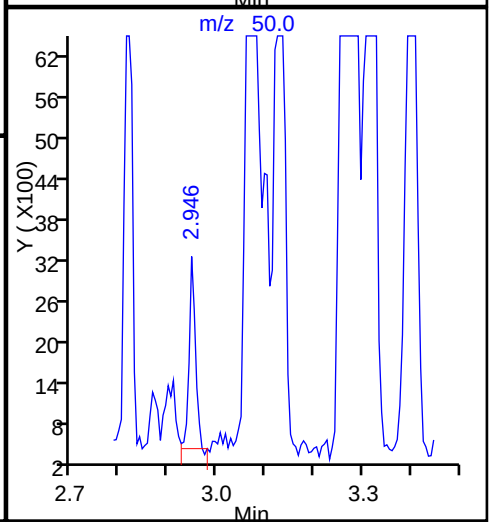


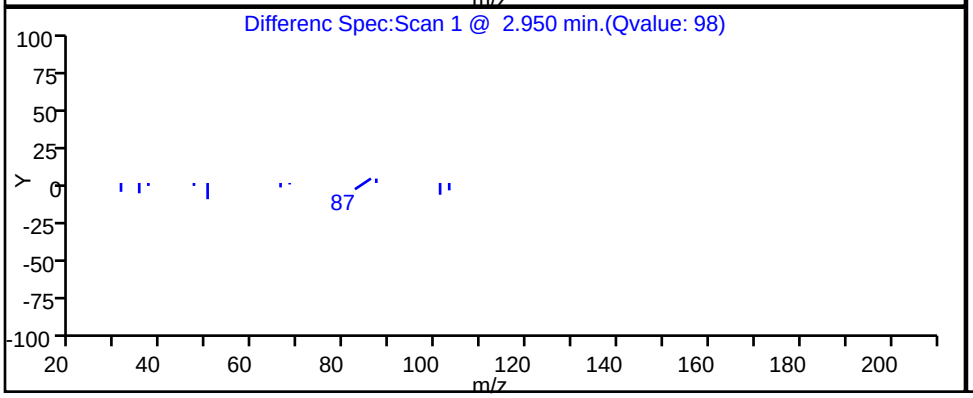








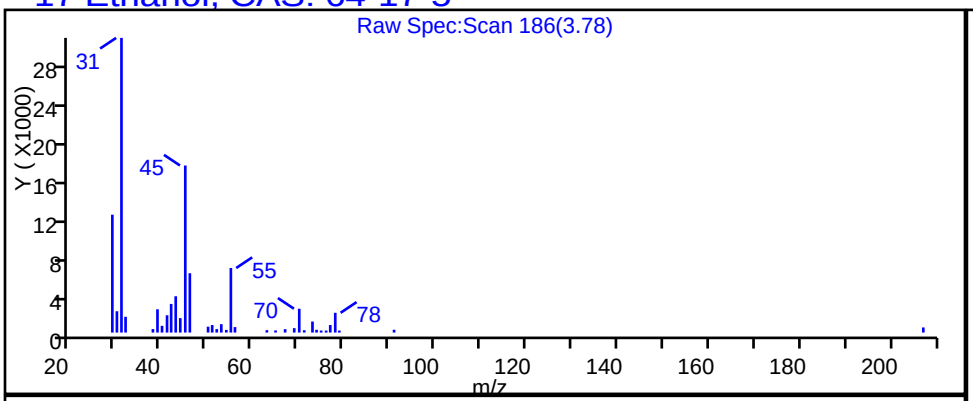


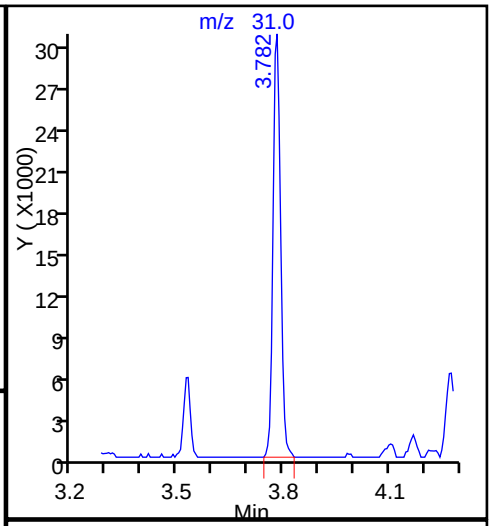


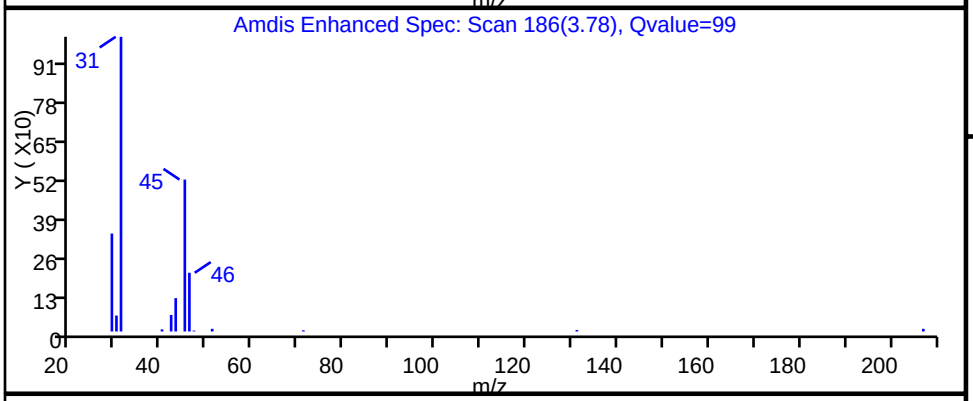
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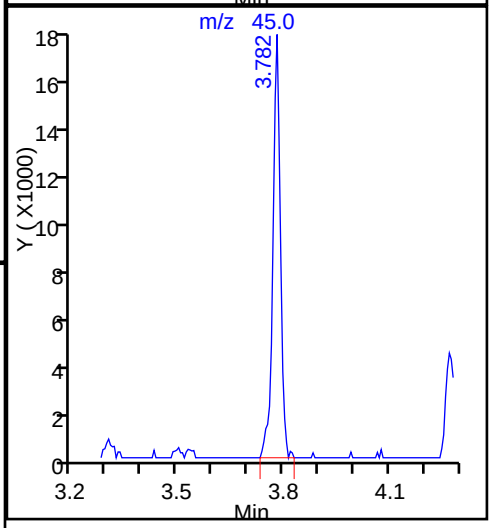
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Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12
Client ID:	SG-220		
Operator ID:	007126	ALS Bottle#:	13 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

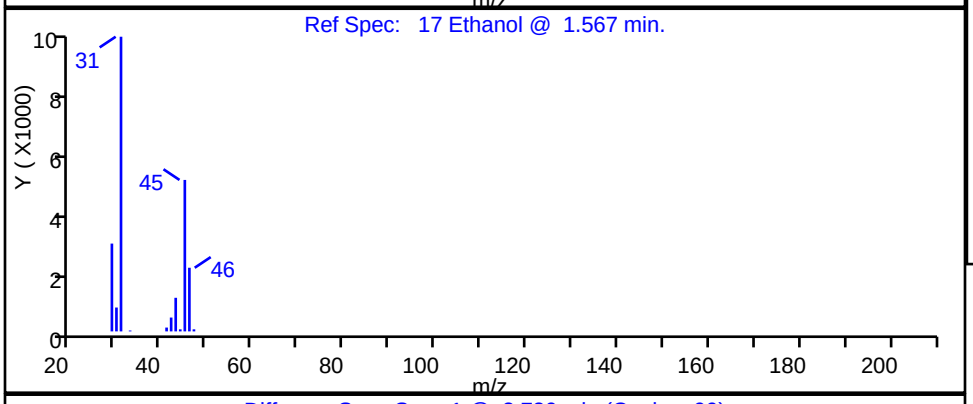
17 Ethanol, CAS: 64-17-5

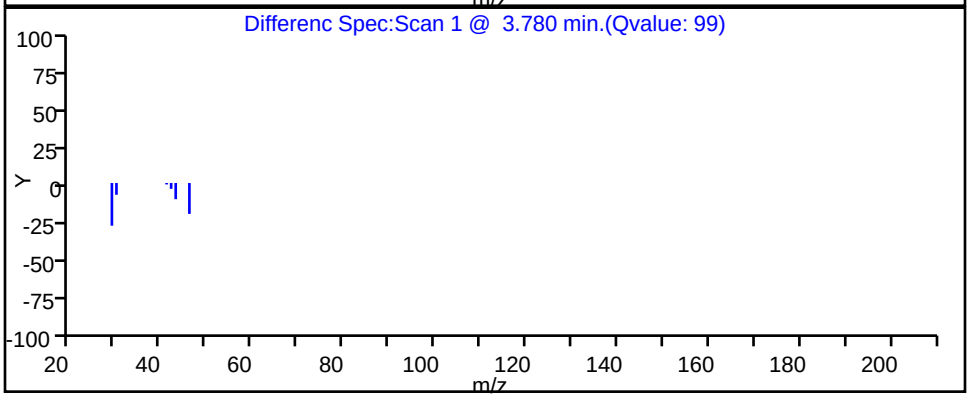






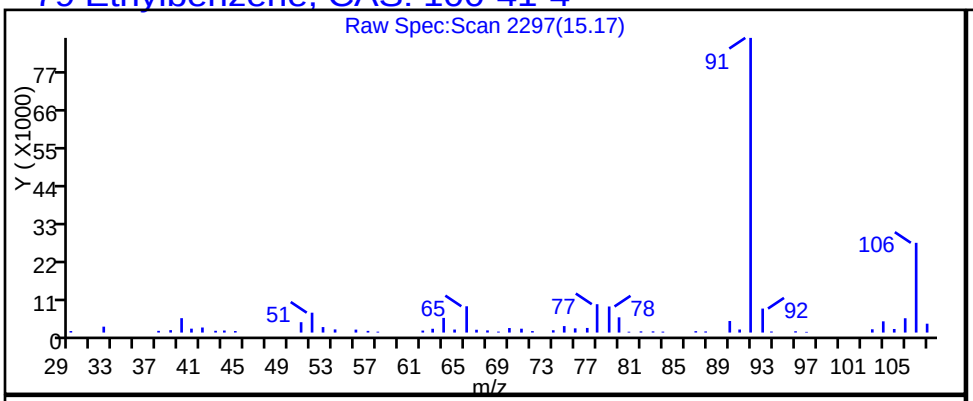


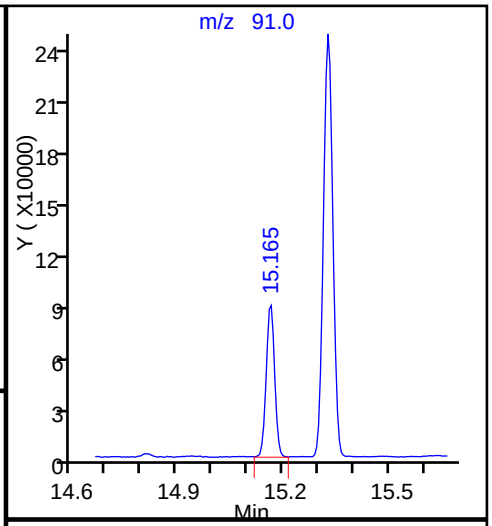


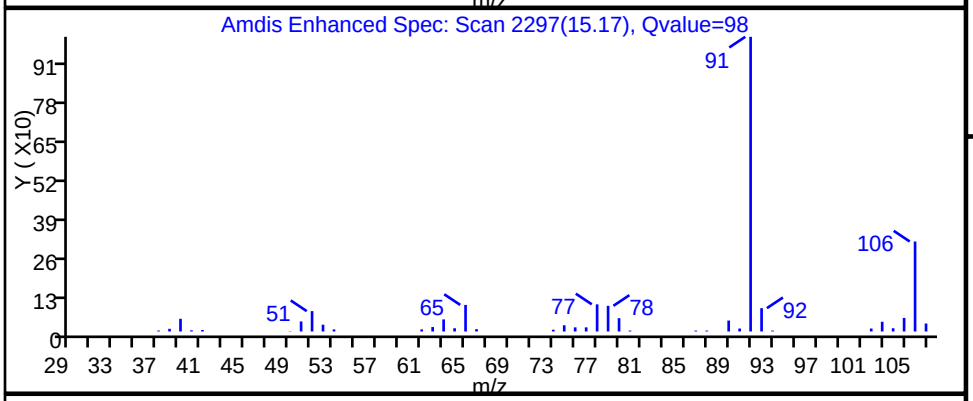


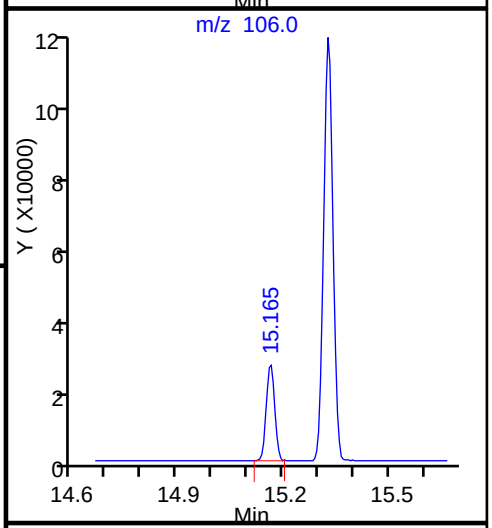
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Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

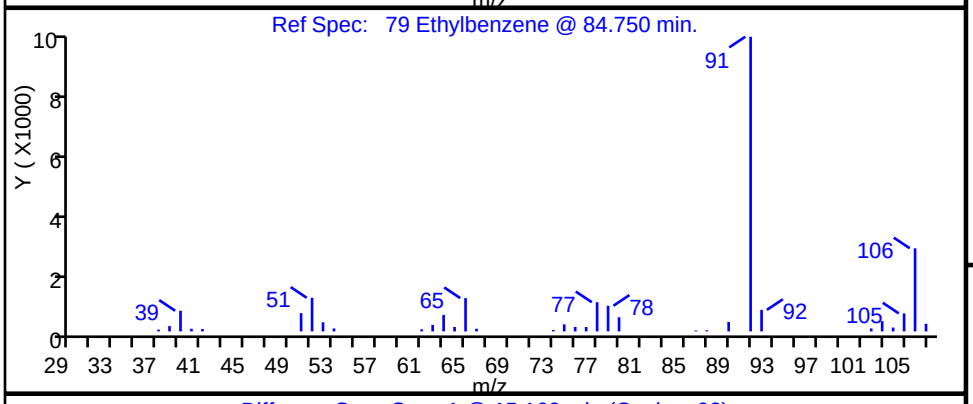
79 Ethylbenzene, CAS: 100-41-4

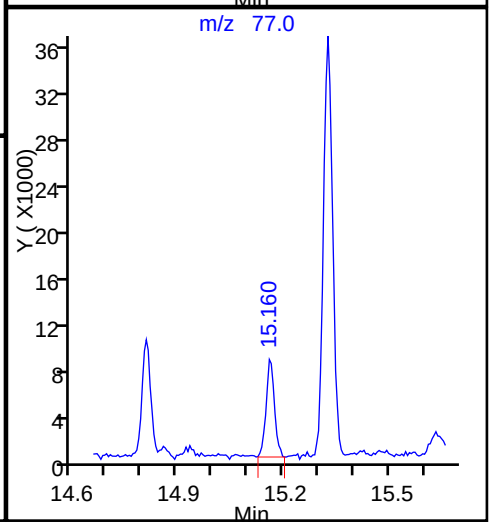


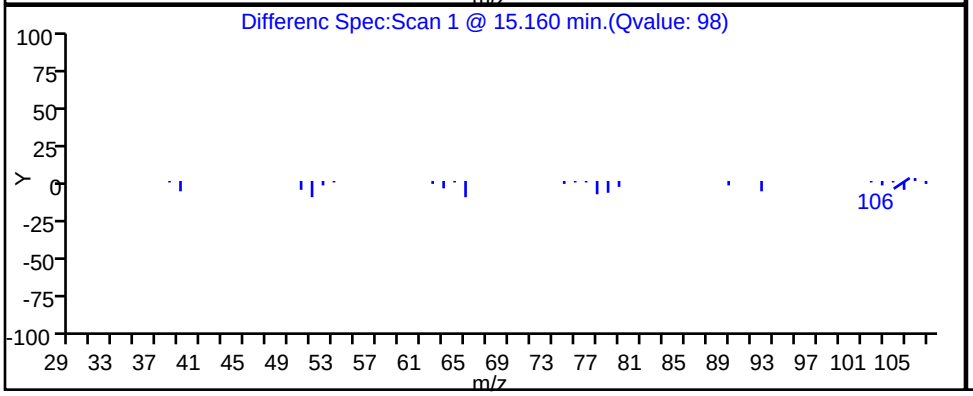






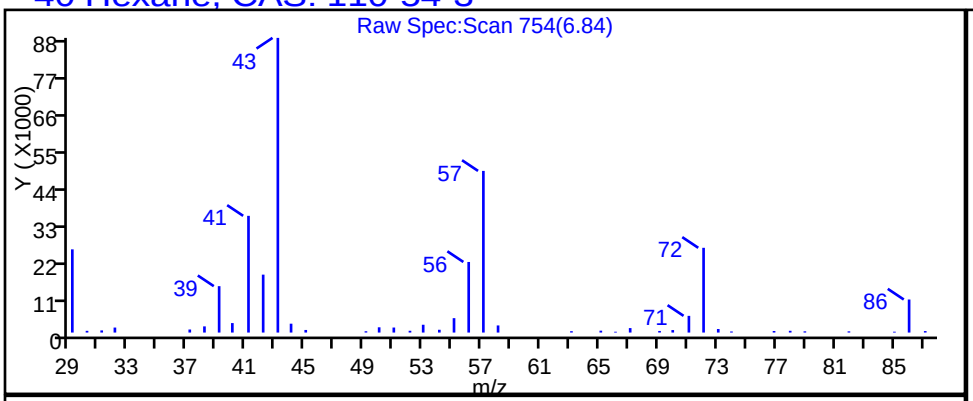


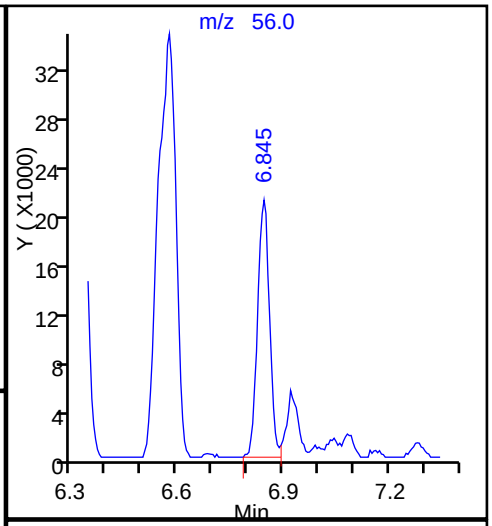


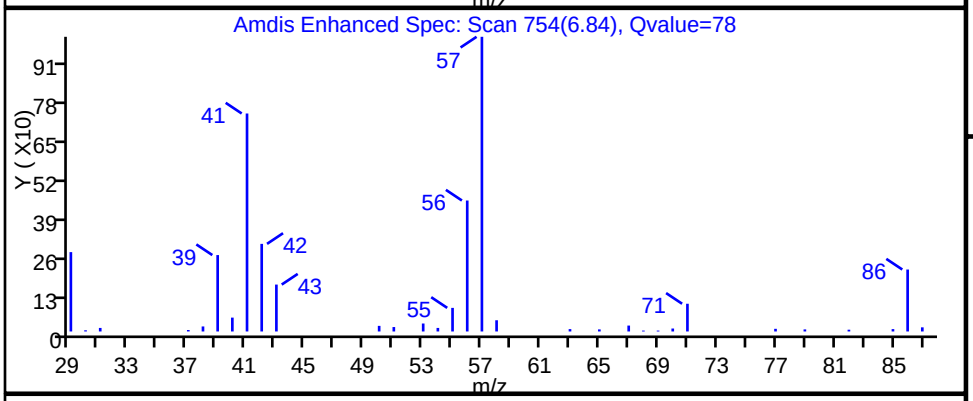


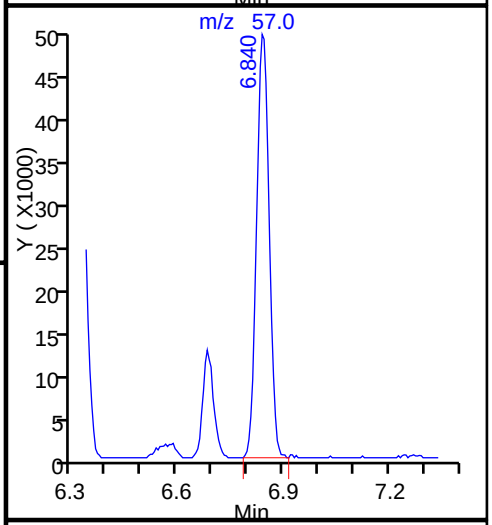
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Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
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Column: RTX-5 (0.32 mm) Detector MS SCAN

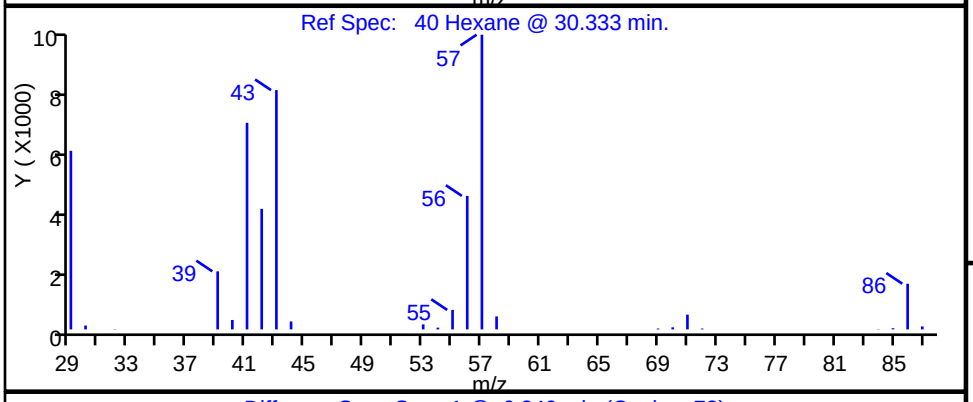
40 Hexane, CAS: 110-54-3

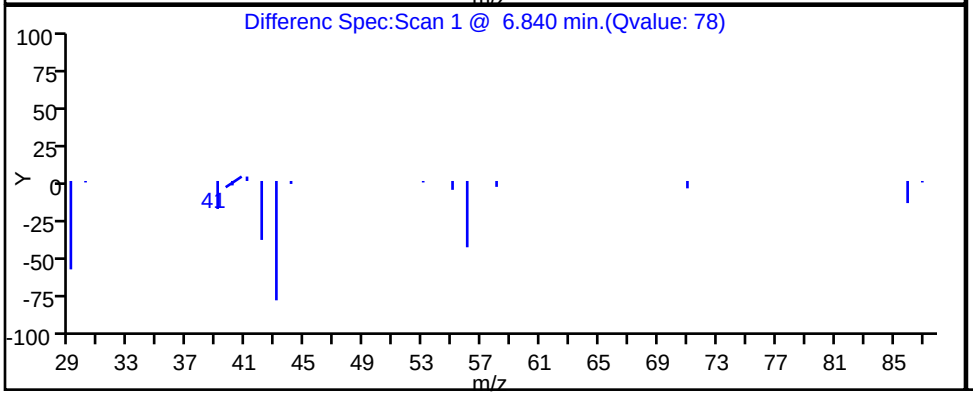


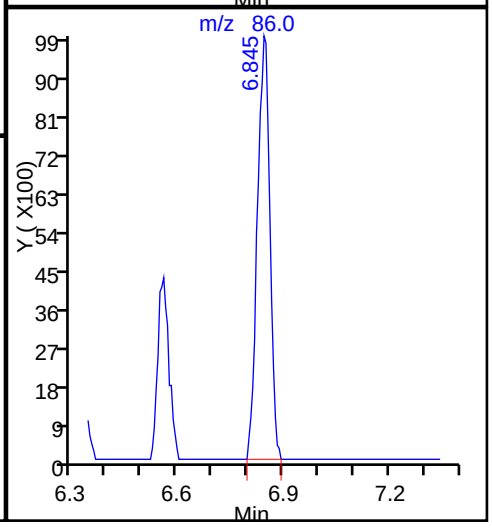








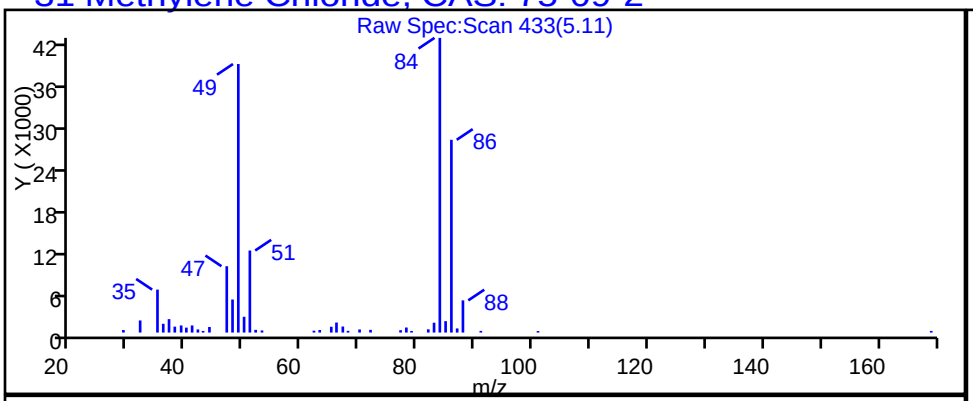


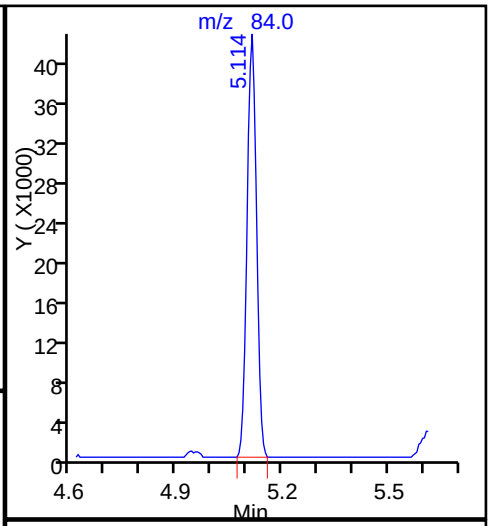


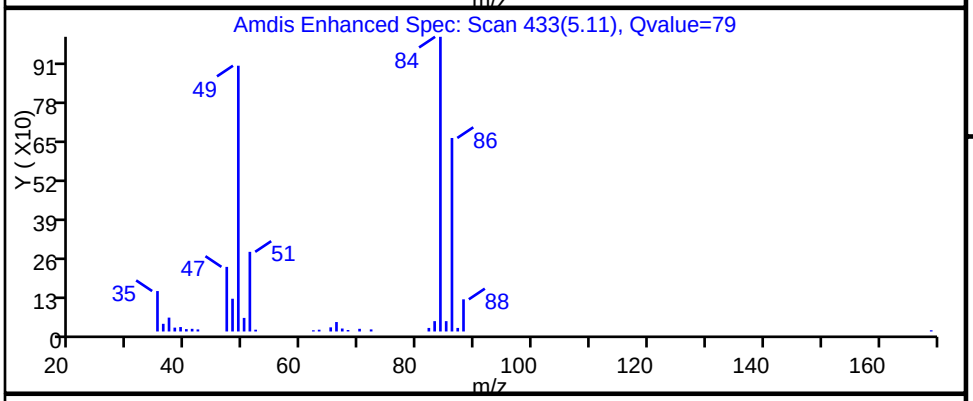
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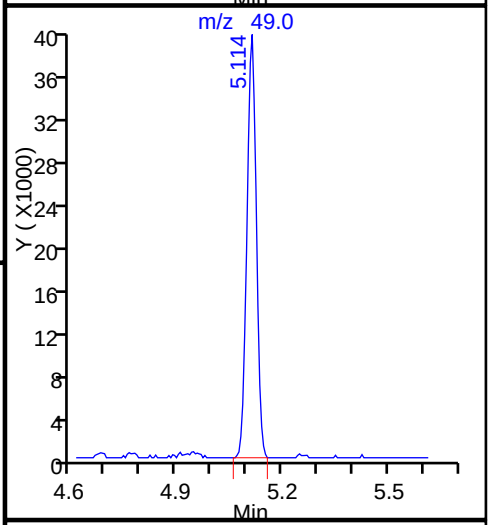
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D		
Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12
Client ID:	SG-220		
Operator ID:	007126	ALS Bottle#:	13 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

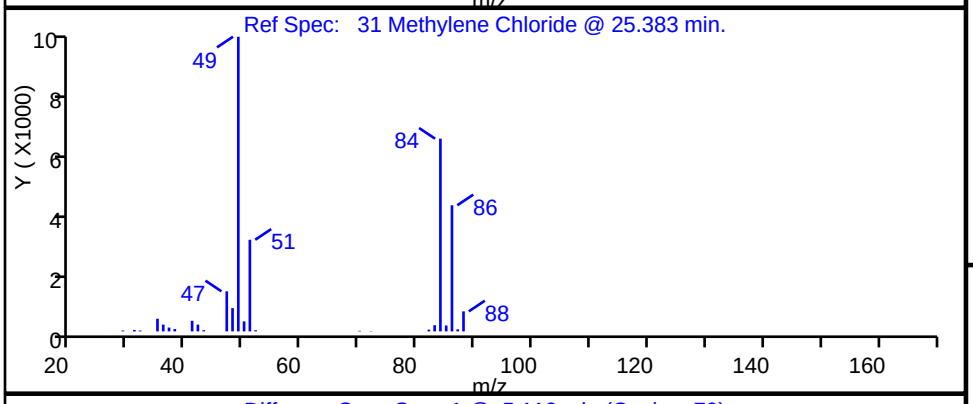
31 Methylene Chloride, CAS: 75-09-2

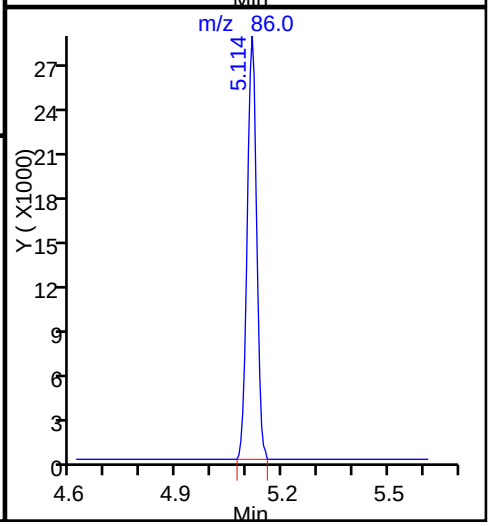


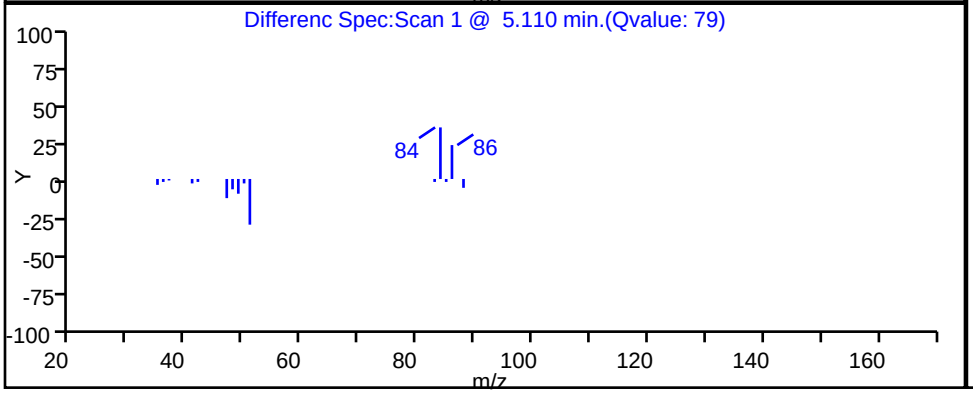












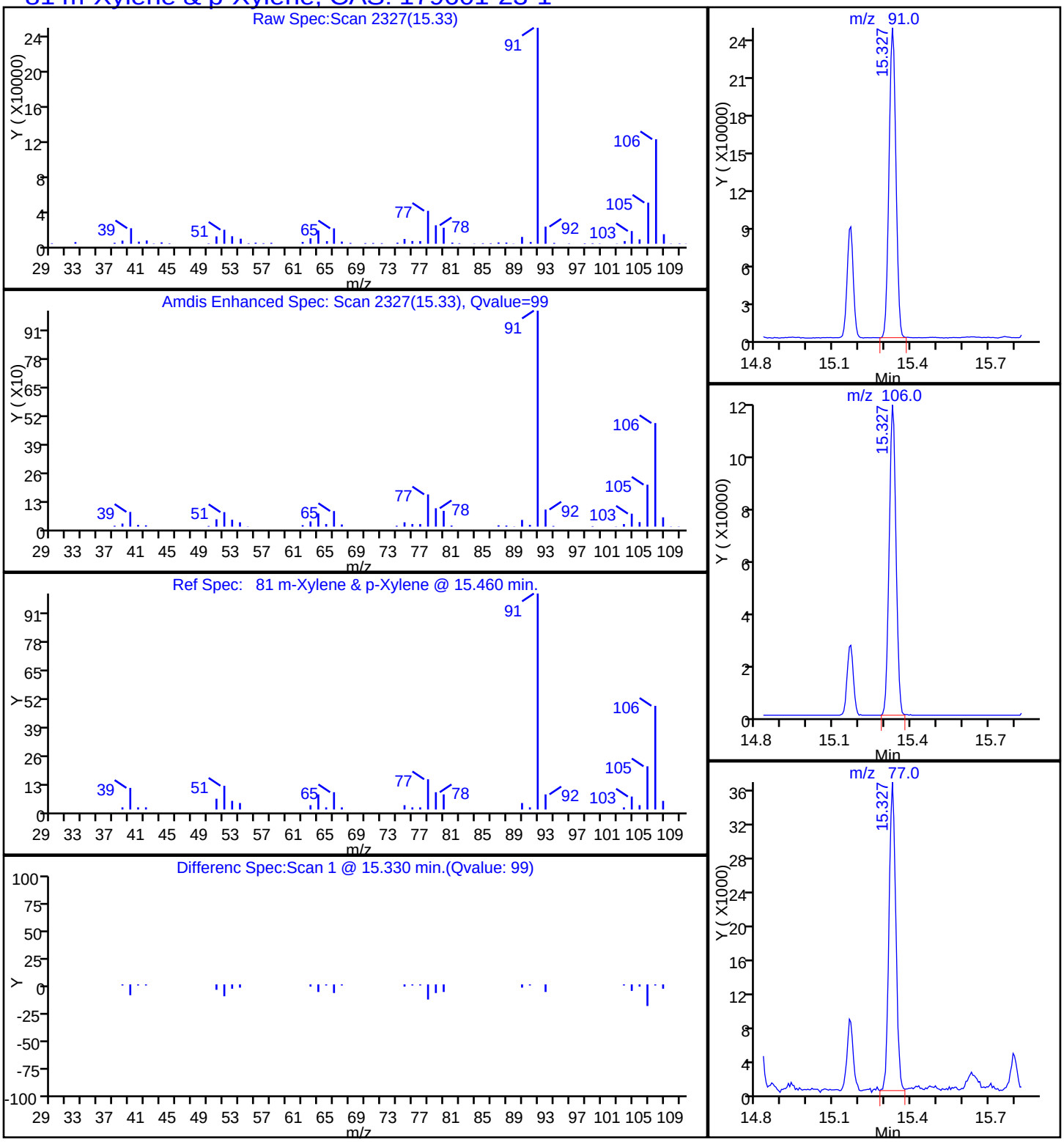
Report Date: 02-Sep-2016 12:28:23 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D

Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

81 m-Xylene & p-Xylene, CAS: 179601-23-1

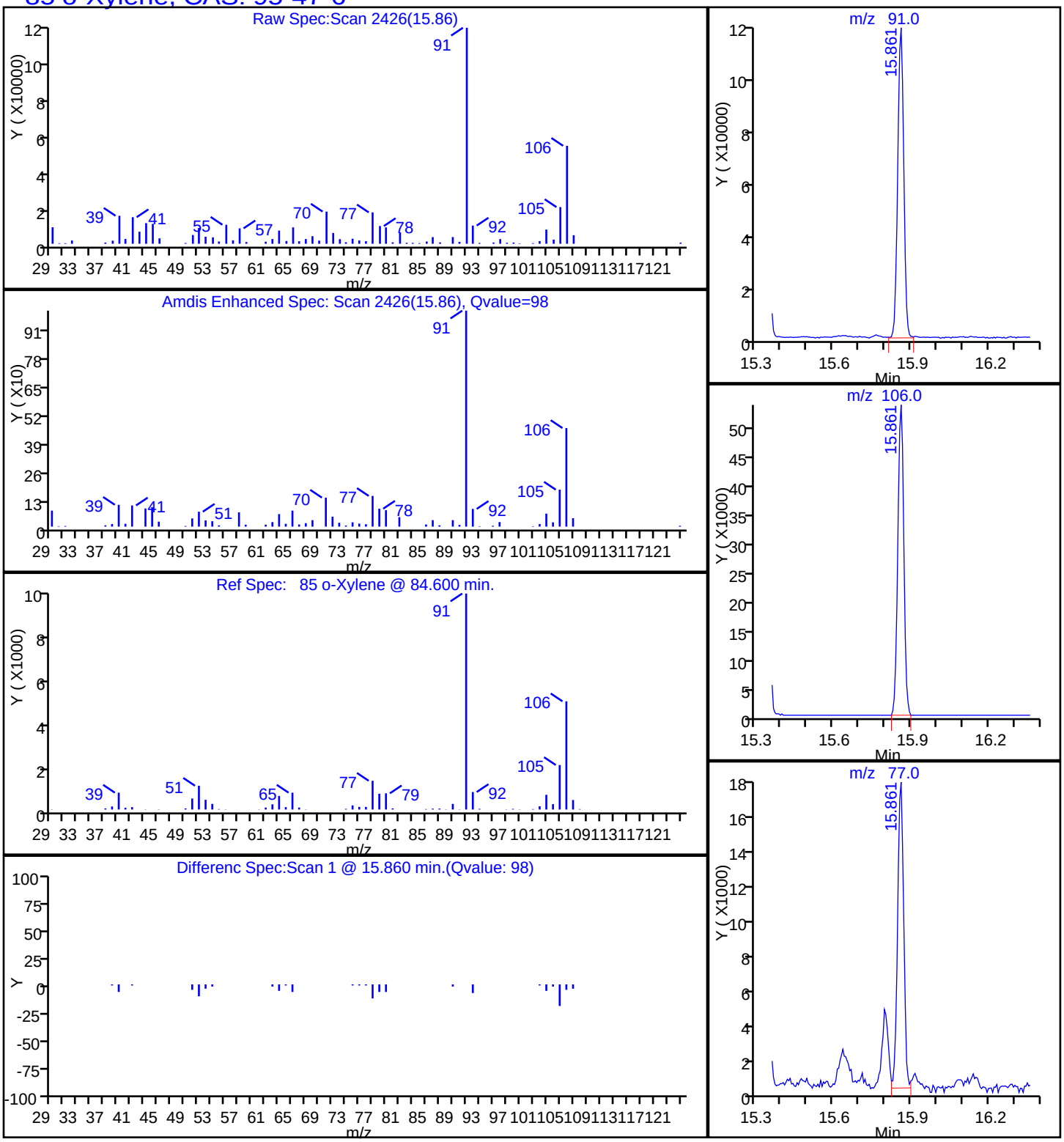


Report Date: 02-Sep-2016 12:28:23 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D		
Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12
Client ID:	SG-220		
Operator ID:	007126	ALS Bottle#:	13 Worklist Smp#: 16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

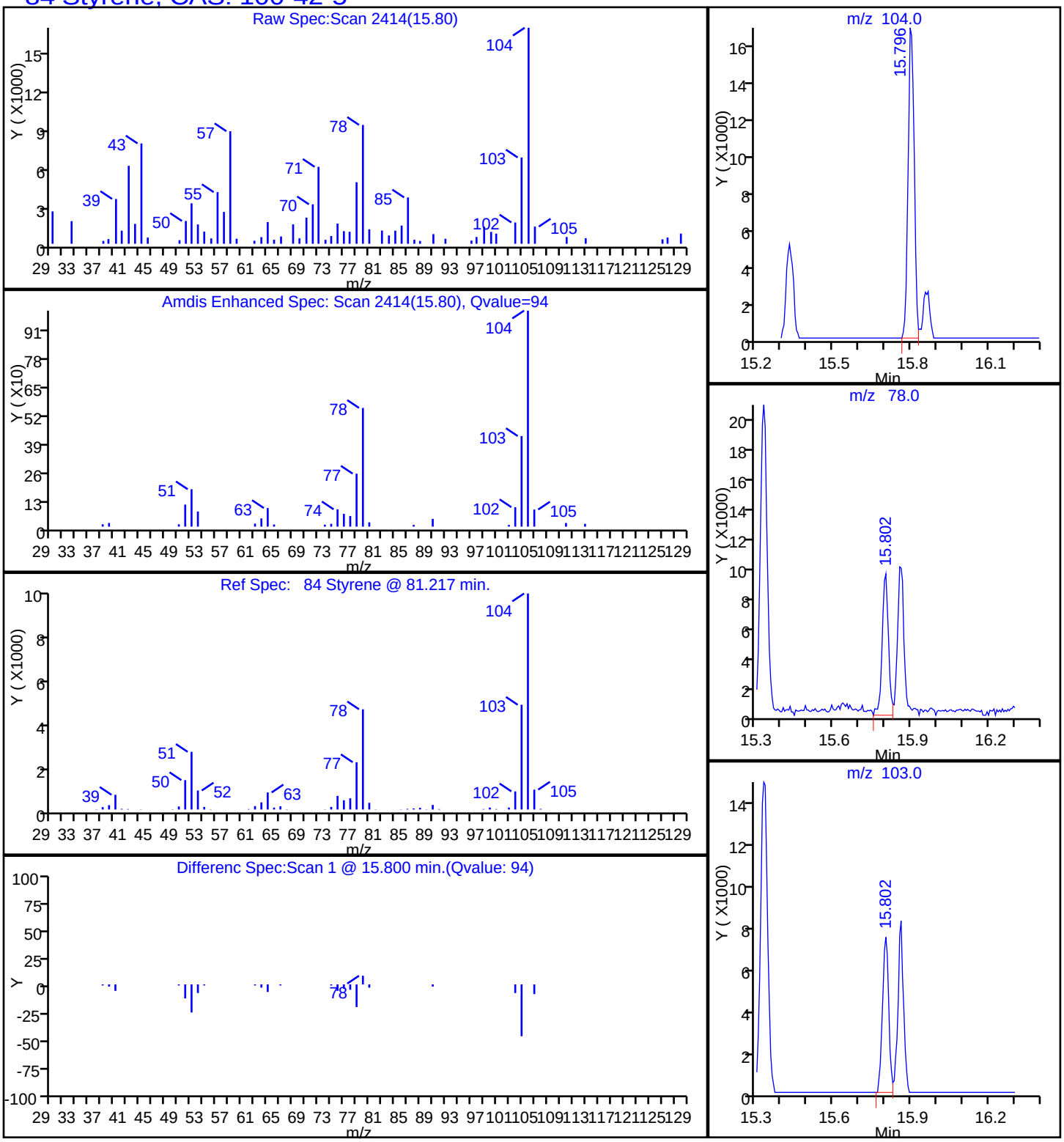
85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D				
Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

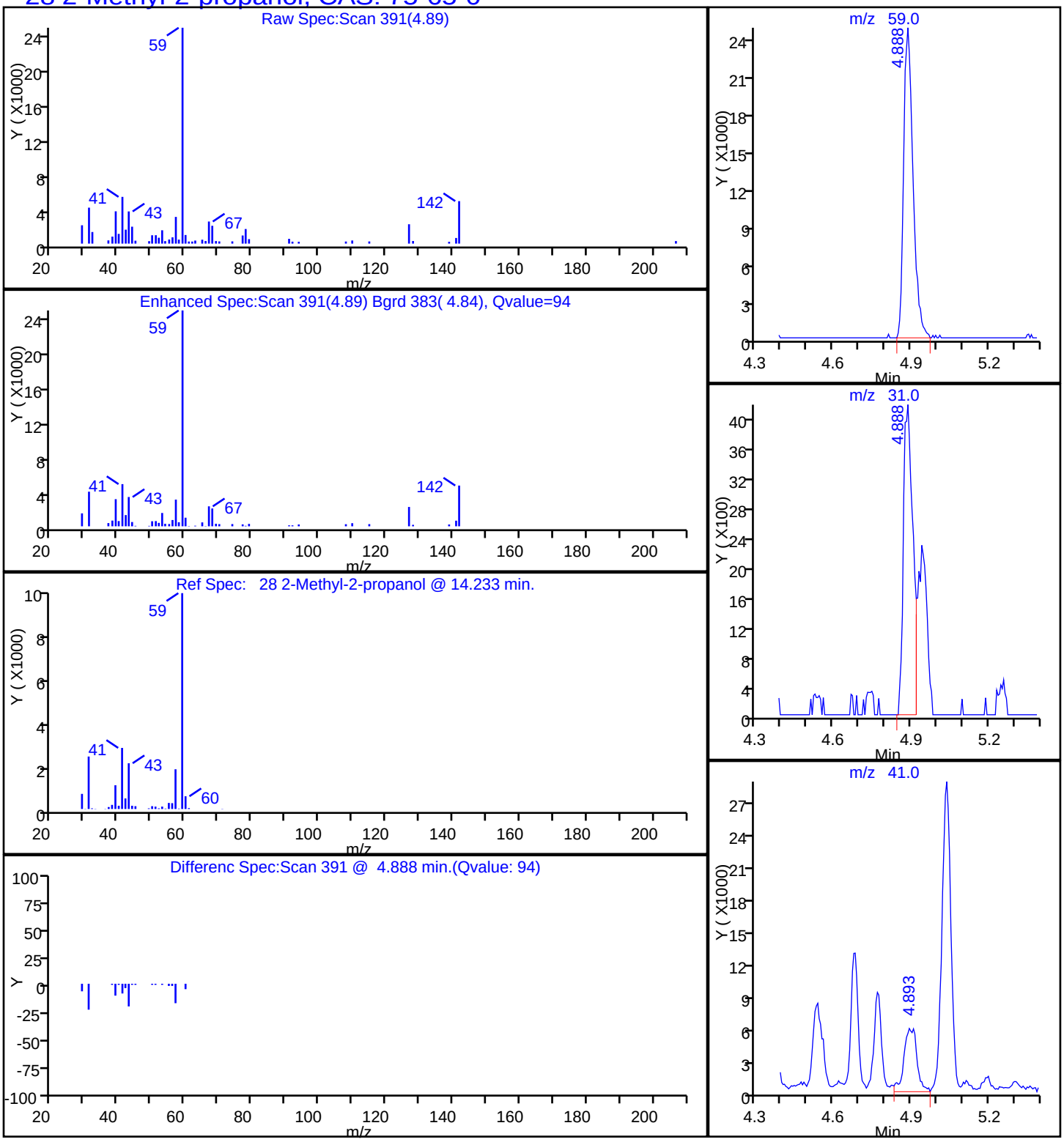
84 Styrene, CAS: 100-42-5



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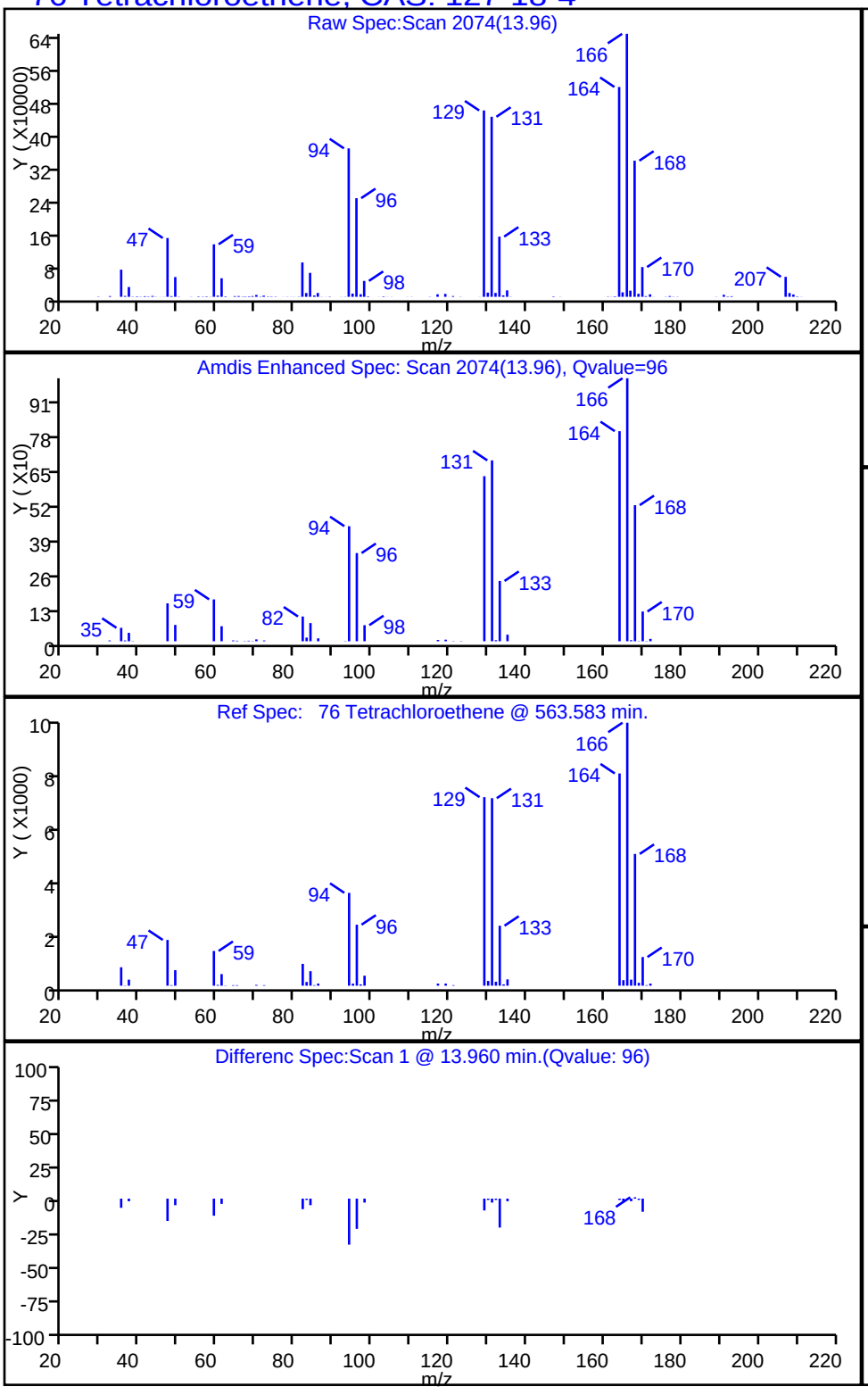
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Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

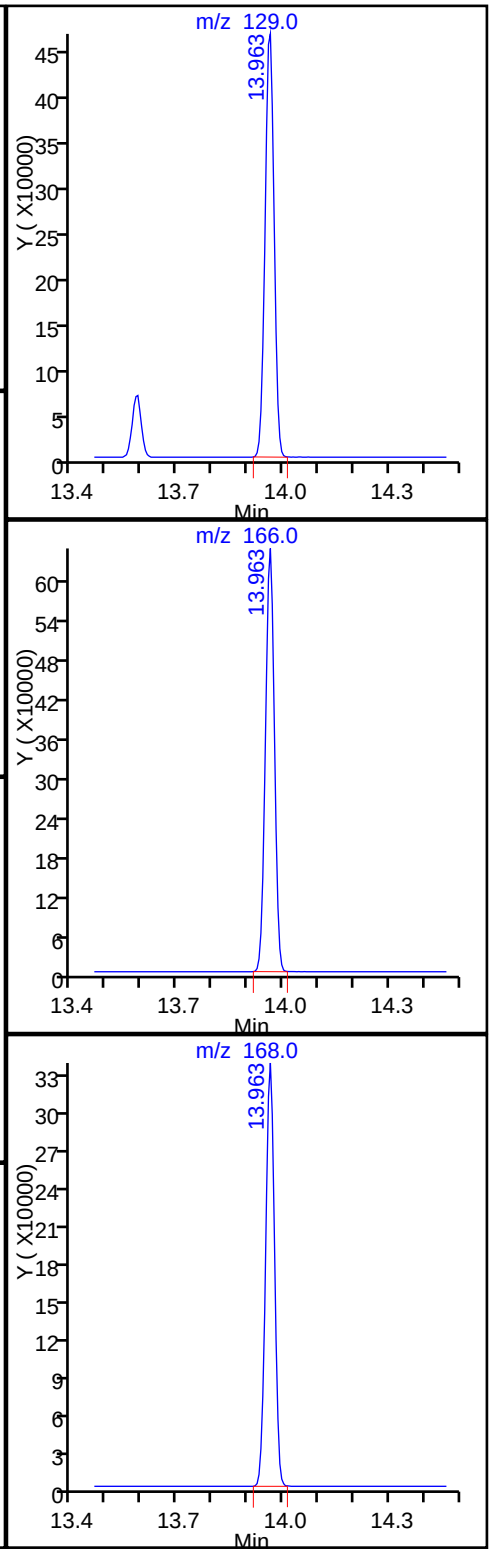
28 2-Methyl-2-propanol, CAS: 75-65-0



Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D
Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
Client ID: SG-220
Operator ID: 007126 ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



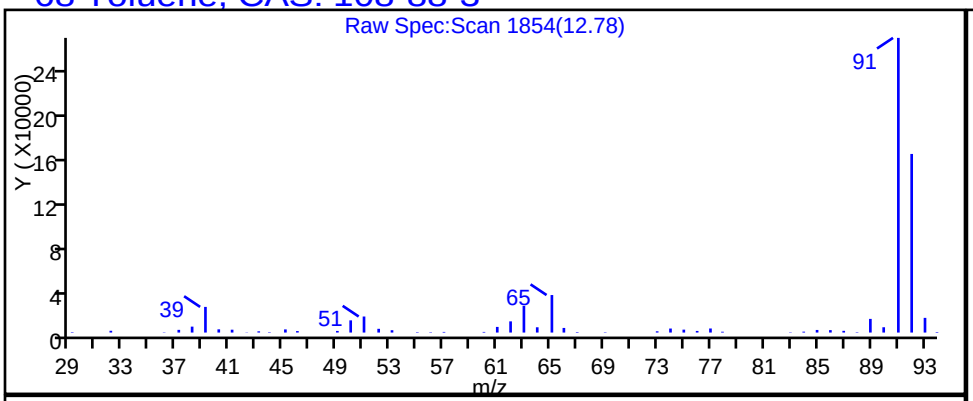


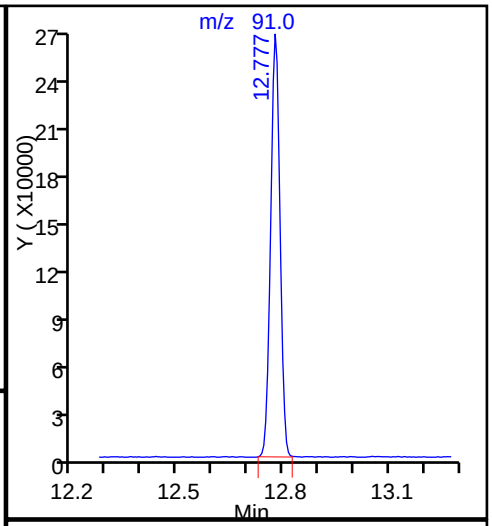
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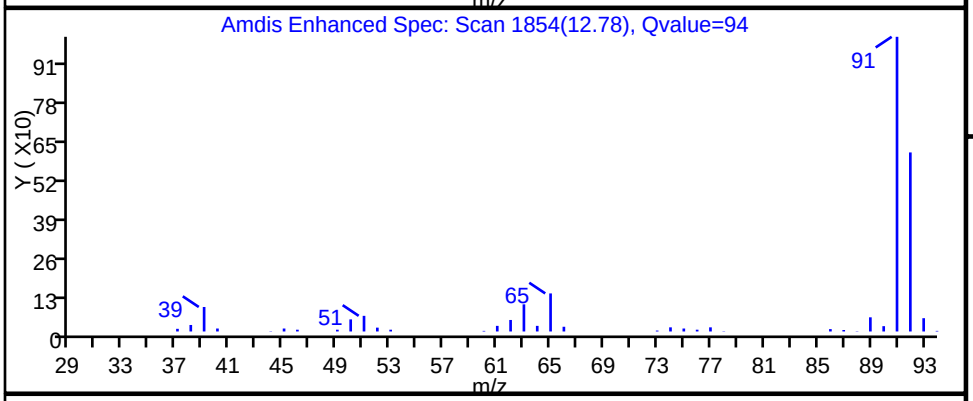
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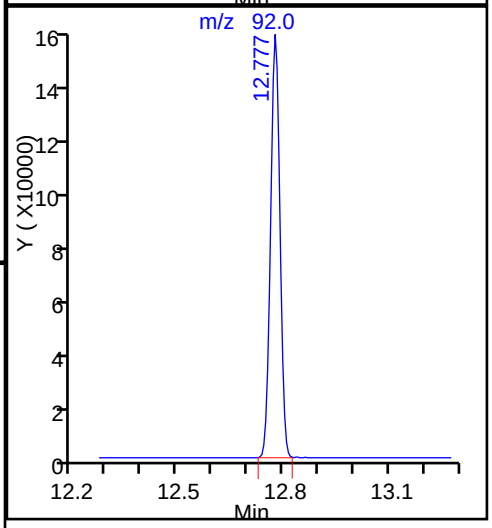
Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

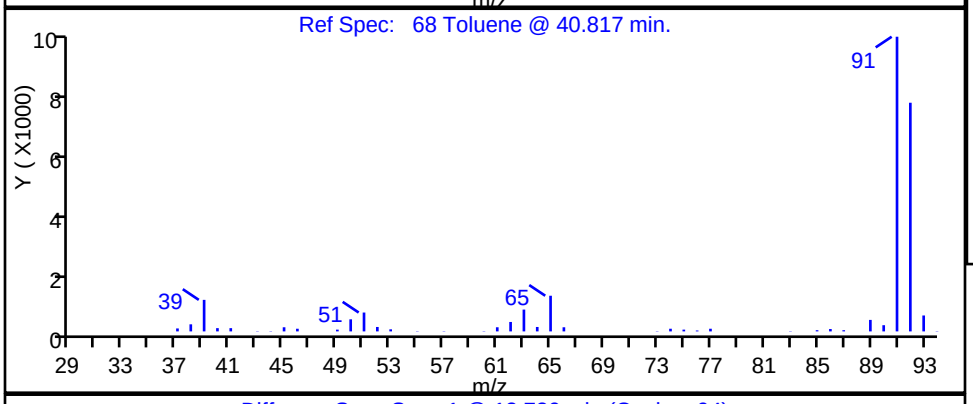
68 Toluene, CAS: 108-88-3

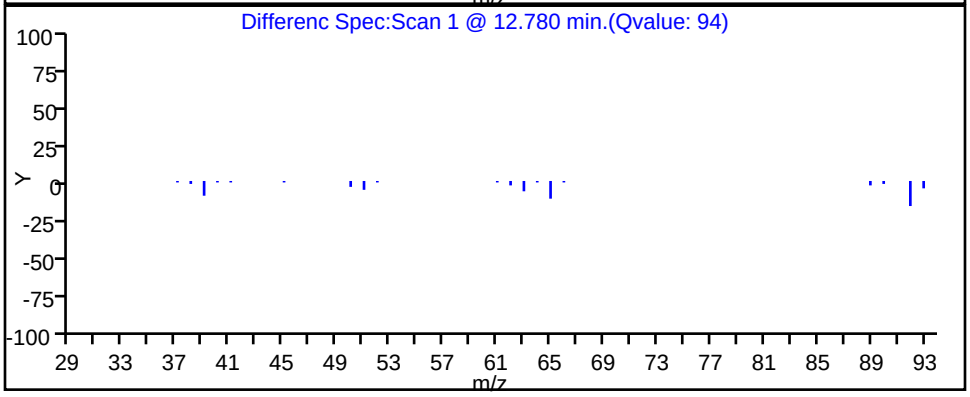






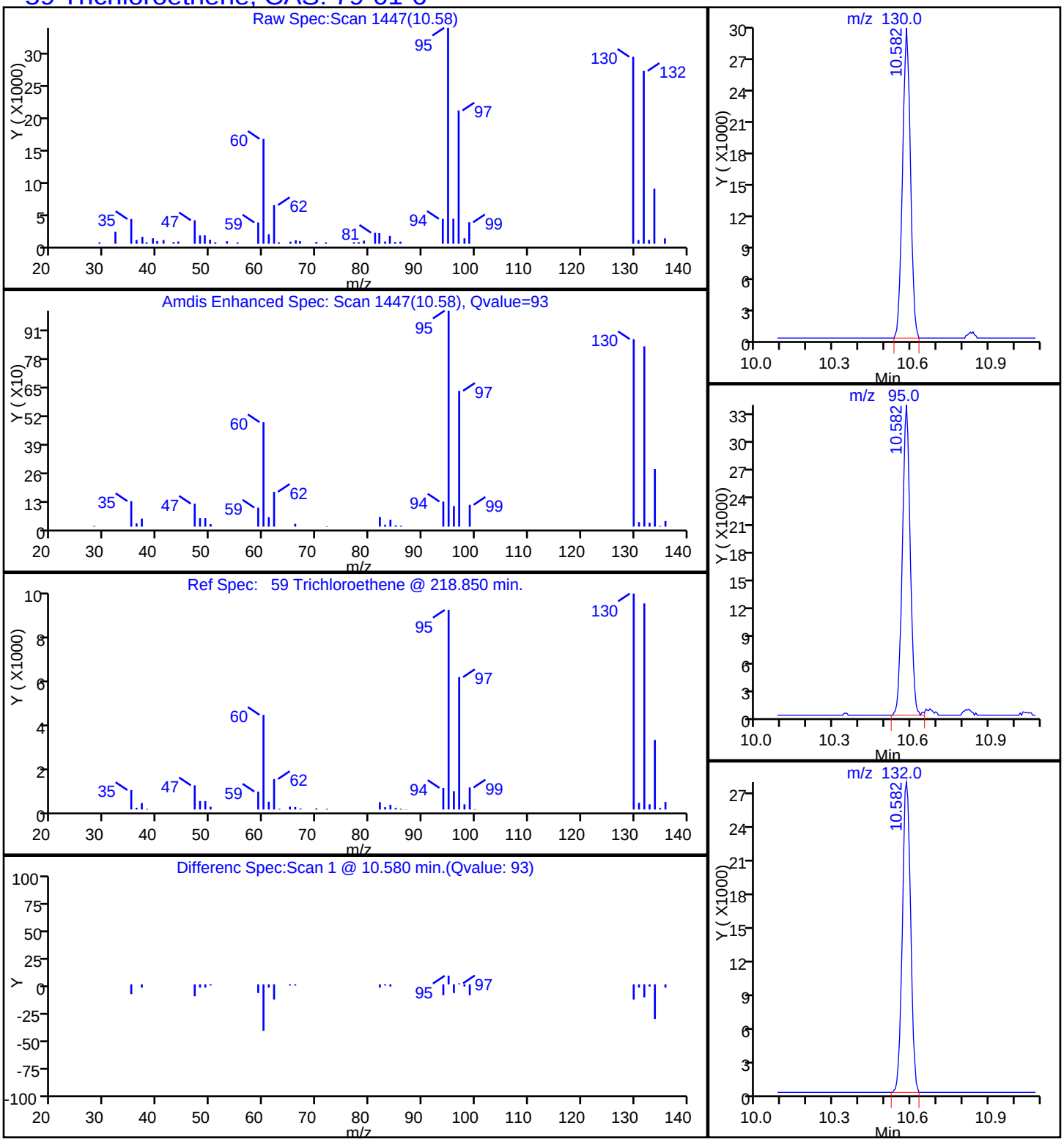






Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D
Injection Date: 01-Sep-2016 21:12:30 Instrument ID: ME
Lims ID: 140-5720-A-12 Lab Sample ID: 140-5720-12
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Purge Vol: 500.000 mL Dil. Factor: 1.4700
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

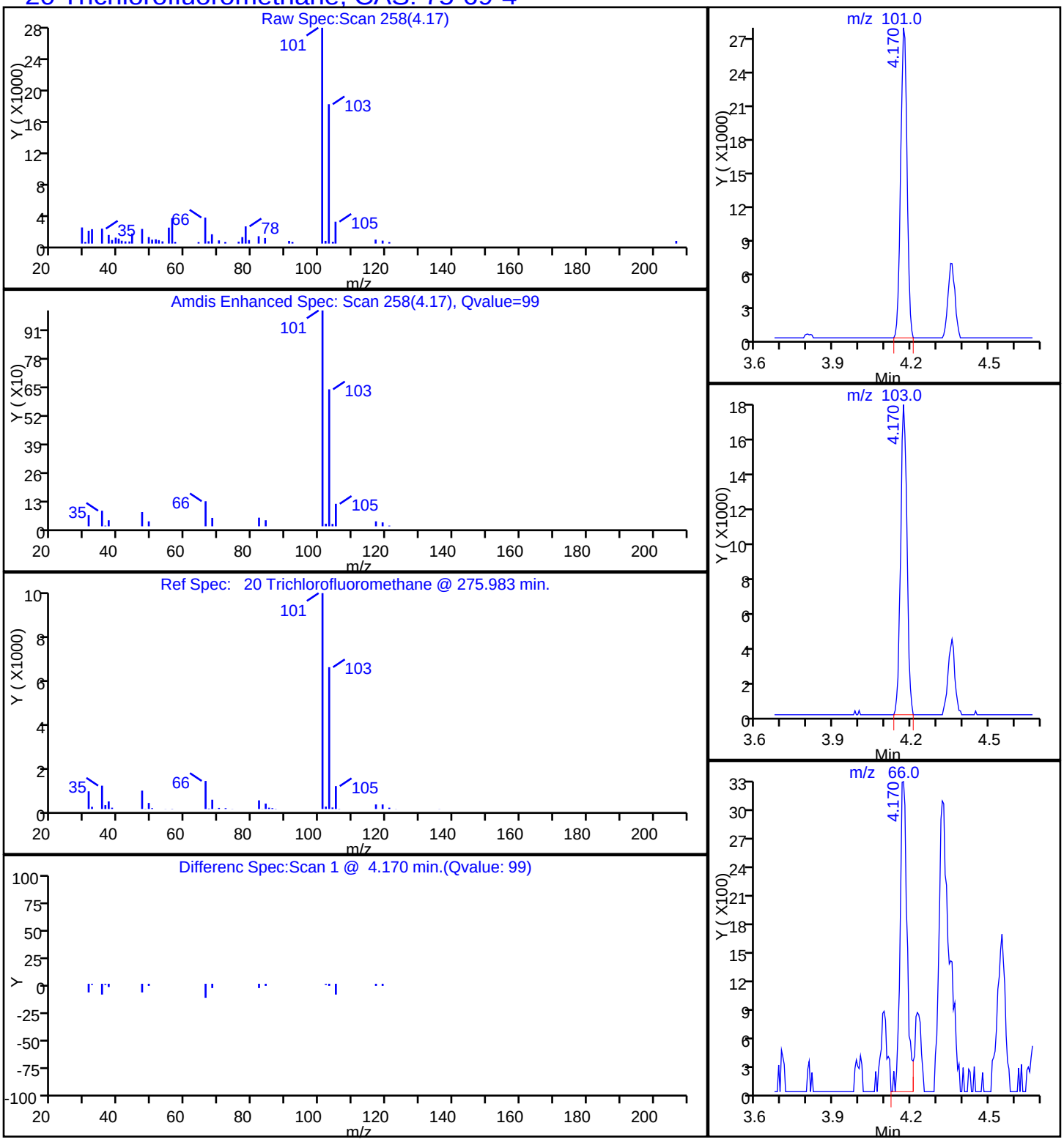
59 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P113.D				
Injection Date:	01-Sep-2016 21:12:30	Instrument ID:	ME		
Lims ID:	140-5720-A-12	Lab Sample ID:	140-5720-12		
Client ID:	SG-220				
Operator ID:	007126	ALS Bottle#:	13	Worklist Smp#:	16
Purge Vol:	500.000 mL	Dil. Factor:	1.4700		
Method:	ME_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.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 | Lab Sample ID: 140-5720-13

Matrix: Air | Lab File ID: EI01P114.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		3.0	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		3.0	
79-00-5	1,1,2-Trichloroethane	133.41	ND		3.0	
76-13-1	*1,1,2-Trichlorotrifluoroethane*	*187.38*	*750*	*E*	*3.0*	
75-34-3	1,1-Dichloroethane	98.96	ND		3.0	
75-35-4	1,1-Dichloroethene	96.94	ND		3.0	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		3.0	
106-93-4	1,2-Dibromoethane	187.87	ND		3.0	
95-50-1	1,2-Dichlorobenzene	147.00	ND		3.0	
107-06-2	1,2-Dichloroethane	98.96	ND		3.0	
78-87-5	1,2-Dichloropropane	112.99	ND		3.0	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		3.0	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.0	
541-73-1	1,3-Dichlorobenzene	147.00	ND		3.0	
106-46-7	1,4-Dichlorobenzene	147.00	11		3.0	
123-91-1	1,4-Dioxane	88.11	ND		7.6	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		7.6	
78-93-3	2-Butanone	72.11	ND		12	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		7.6	
71-43-2	Benzene	78.11	ND		3.0	
100-44-7	Benzyl chloride	126.58	ND		6.0	
75-27-4	Bromodichloromethane	163.83	ND		3.0	
75-25-2	Bromoform	252.75	ND		3.0	
74-83-9	Bromomethane	94.94	ND		3.0	
56-23-5	Carbon tetrachloride	153.81	ND		1.5	
108-90-7	Chlorobenzene	112.56	ND		3.0	
75-00-3	Chloroethane	64.52	ND		3.0	
67-66-3	Chloroform	119.38	ND		3.0	
74-87-3	Chloromethane	50.49	ND		7.6	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		3.0	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		3.0	
110-82-7	Cyclohexane	84.16	ND		7.6	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 Lab Sample ID: 140-5720-13

Matrix: Air Lab File ID: EI01P114.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: Dilution Factor: 1.51

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		3.0	
75-71-8	Dichlorodifluoromethane	120.91	ND		3.0	
64-17-5	Ethanol	46.07	ND		76	
100-41-4	Ethylbenzene	106.17	ND		3.0	
87-68-3	Hexachlorobutadiene	260.76	ND		3.0	
110-54-3	Hexane	86.17	ND		7.6	
1634-04-4	Methyl tert-butyl ether	88.15	ND		6.0	
75-09-2	Methylene Chloride	84.93	ND		7.6	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		3.0	
95-47-6	o-Xylene	106.17	ND		3.0	
100-42-5	Styrene	104.15	ND		3.0	
75-65-0	t-Butyl alcohol	74.12	ND		12	
127-18-4	Tetrachloroethene	165.83	120		3.0	
108-88-3	Toluene	92.14	4.5		4.5	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.0	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		3.0	
79-01-6	Trichloroethene	131.39	ND		1.5	
75-69-4	Trichlorofluoromethane	137.37	ND		3.0	
75-01-4	Vinyl chloride	62.50	ND		1.5	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 Lab Sample ID: 140-5720-13

Matrix: Air Lab File ID: EI01P114.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: Dilution Factor: 1.51

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		16	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		21	
79-00-5	1,1,2-Trichloroethane	133.41	ND		16	
76-13-1	*1,1,2-Trichlorotrifluoroethane*	*187.38*	*5700*	*E*	*23*	
75-34-3	1,1-Dichloroethane	98.96	ND		12	
75-35-4	1,1-Dichloroethene	96.94	ND		12	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		22	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		15	
106-93-4	1,2-Dibromoethane	187.87	ND		23	
95-50-1	1,2-Dichlorobenzene	147.00	ND		18	
107-06-2	1,2-Dichloroethane	98.96	ND		12	
78-87-5	1,2-Dichloropropane	112.99	ND		14	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		21	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		15	
541-73-1	1,3-Dichlorobenzene	147.00	ND		18	
106-46-7	1,4-Dichlorobenzene	147.00	63		18	
123-91-1	1,4-Dioxane	88.11	ND		27	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		35	
78-93-3	2-Butanone	72.11	ND		36	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		31	
71-43-2	Benzene	78.11	ND		9.6	
100-44-7	Benzyl chloride	126.58	ND		31	
75-27-4	Bromodichloromethane	163.83	ND		20	
75-25-2	Bromoform	252.75	ND		31	
74-83-9	Bromomethane	94.94	ND		12	
56-23-5	Carbon tetrachloride	153.81	ND		9.5	
108-90-7	Chlorobenzene	112.56	ND		14	
75-00-3	Chloroethane	64.52	ND		8.0	
67-66-3	Chloroform	119.38	ND		15	
74-87-3	Chloromethane	50.49	ND		16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		12	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		14	
110-82-7	Cyclohexane	84.16	ND		26	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 | Lab Sample ID: 140-5720-13

Matrix: Air | Lab File ID: EI01P114.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		26	
75-71-8	Dichlorodifluoromethane	120.91	ND		15	
64-17-5	Ethanol	46.07	ND		140	
100-41-4	Ethylbenzene	106.17	ND		13	
87-68-3	Hexachlorobutadiene	260.76	ND		32	
110-54-3	Hexane	86.17	ND		27	
1634-04-4	Methyl tert-butyl ether	88.15	ND		22	
75-09-2	Methylene Chloride	84.93	ND		26	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		13	
95-47-6	o-Xylene	106.17	ND		13	
100-42-5	Styrene	104.15	ND		13	
75-65-0	t-Butyl alcohol	74.12	ND		37	
127-18-4	Tetrachloroethene	165.83	830		20	
108-88-3	Toluene	92.14	17		17	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		12	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		14	
79-01-6	Trichloroethene	131.39	ND		8.1	
75-69-4	Trichlorofluoromethane	137.37	ND		17	
75-01-4	Vinyl chloride	62.50	ND		3.9	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P114.D
Lims ID: 140-5720-A-13
Client ID: SG-222
Sample Type: Client
Inject. Date: 01-Sep-2016 21:55:30 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.5100
Sample Info: 140-0003369-017
Misc. Info.: 140-5720-a-13@1.51
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 12:31:04 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:31:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.578	7.568	0.010	73	298098	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.811	0.005	94	1452723	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1315690	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	1074909	3.99	
20 Trichlorofluoromethane	101	4.176	4.165	0.011	98	13044	0.0430	
28 2-Methyl-2-propanol	59	4.909	4.877	0.032	78	6552	0.0531	M
30 1,1,2-Trichloro-1,2,2-trif	101	4.958	4.942	0.016	95	3875646	19.8	E
31 Methylene Chloride	84	5.109	5.103	0.006	79	6537	0.0699	
39 2-Butanone (MEK)	72	6.850	6.834	0.016	91	13051	0.3004	
40 Hexane	56	6.850	6.840	0.010	56	5350	0.0919	
44 Chloroform	83	7.589	7.584	0.005	91	18743	0.0754	
51 Benzene	78	9.201	9.202	-0.001	95	16721	0.0562	
59 Trichloroethene	130	10.587	10.582	0.005	90	3074	0.0236	
65 4-Methyl-2-pentanone (MIBK	43	11.903	11.887	0.016	90	4329	0.0371	
68 Toluene	91	12.782	12.777	0.005	94	37873	0.1200	
76 Tetrachloroethene	129	13.963	13.963	0.000	94	398411	3.25	
81 m-Xylene & p-Xylene	91	15.327	15.333	-0.006	98	22792	0.0690	
85 o-Xylene	91	15.861	15.861	0.000	97	11595	0.0335	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	91	61098	0.2784	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

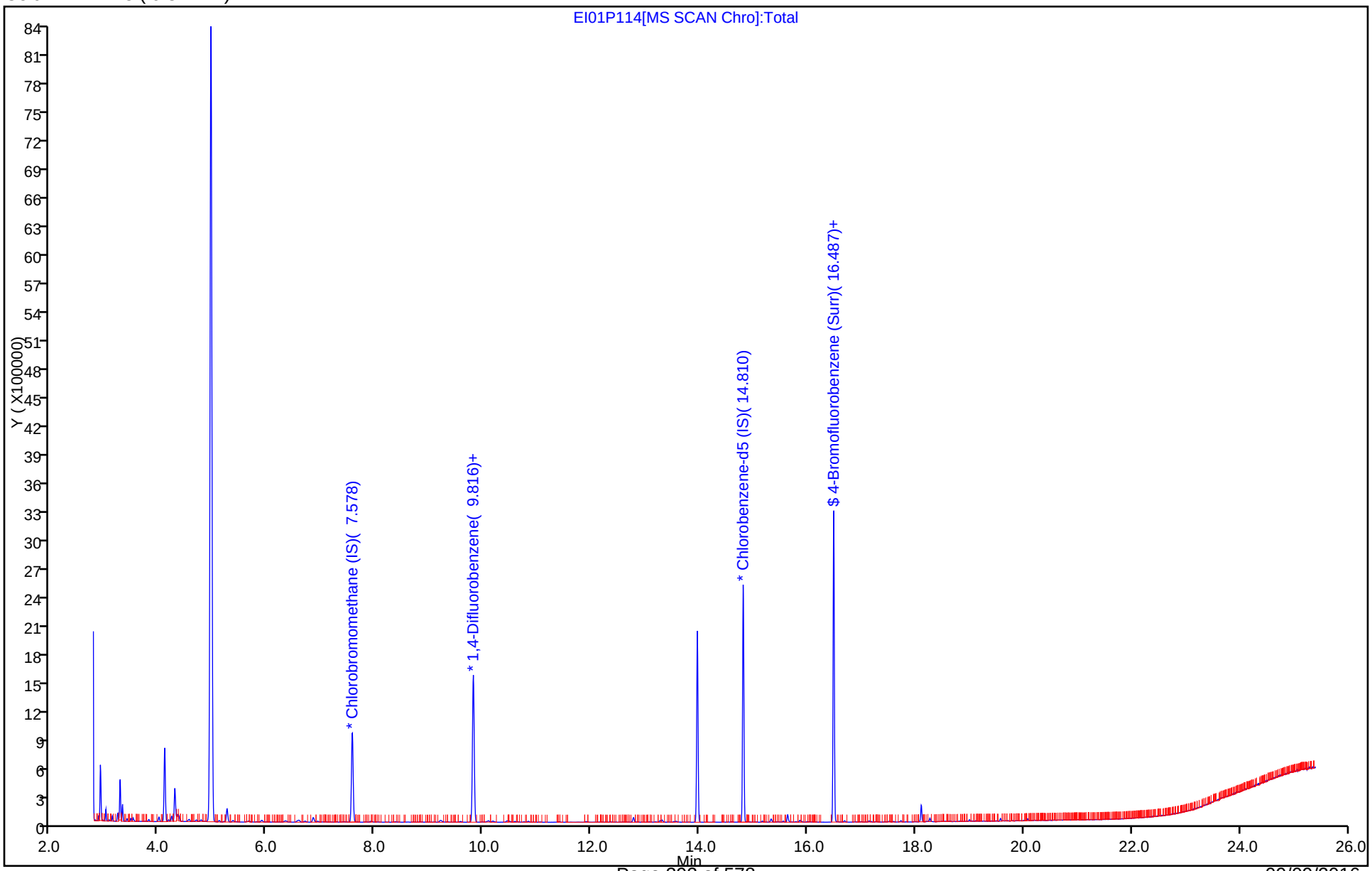
Report Date: 02-Sep-2016 12:31:06 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P114.D

Injection Date:	01-Sep-2016 21:55:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-13	Lab Sample ID:	140-5720-13	Worklist Smp#:	17
Client ID:	SG-222				
Purge Vol:	500.000 mL	Dil. Factor:	1.5100	ALS Bottle#:	14
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P114.D				
Lims ID:	140-5720-A-13				
Client ID:	SG-222				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 21:55:30	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.5100		
Sample Info:	140-0003369-017				
Misc. Info.:	140-5720-a-13@1.51				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 12:31:04	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

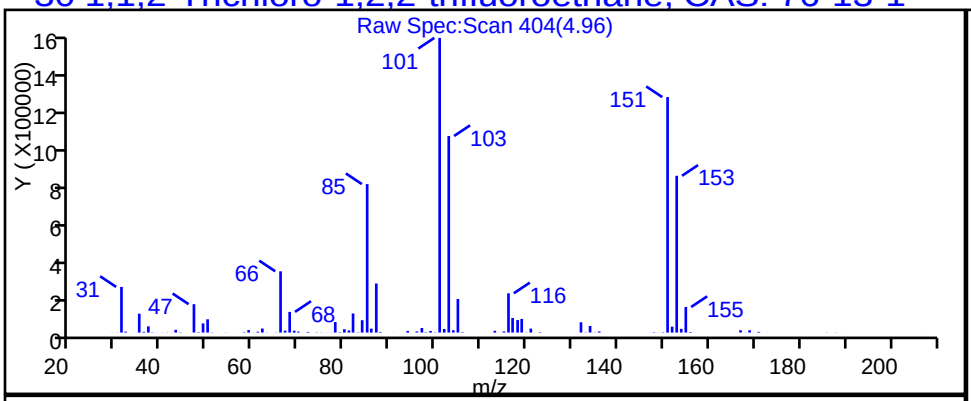
First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 12:31:04

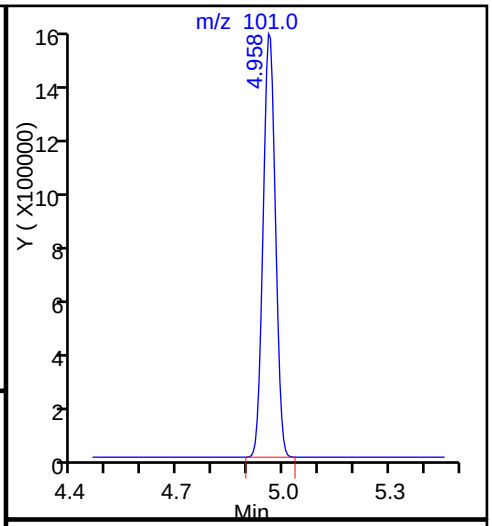
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	3.99	99.81

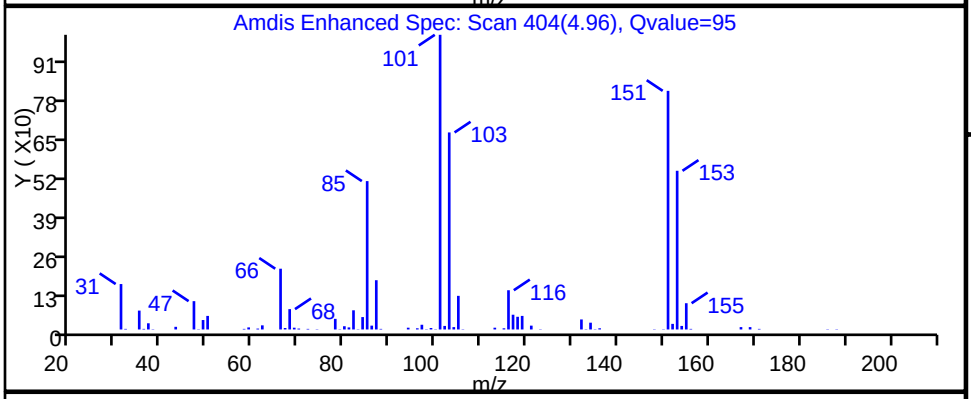
TestAmerica Knoxville

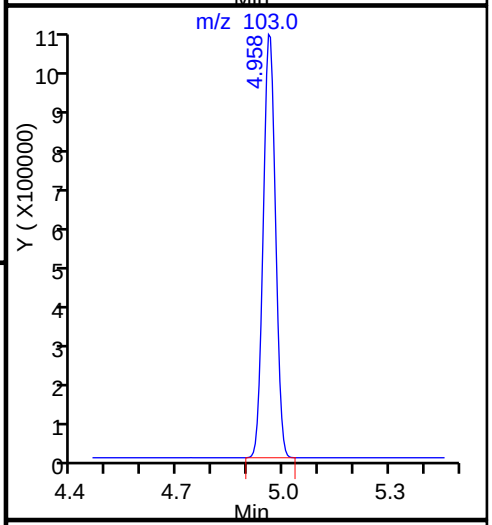
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Injection Date:	01-Sep-2016 21:55:30	Instrument ID:	ME		
Lims ID:	140-5720-A-13	Lab Sample ID:	140-5720-13		
Client ID:	SG-222				
Operator ID:	007126	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.5100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

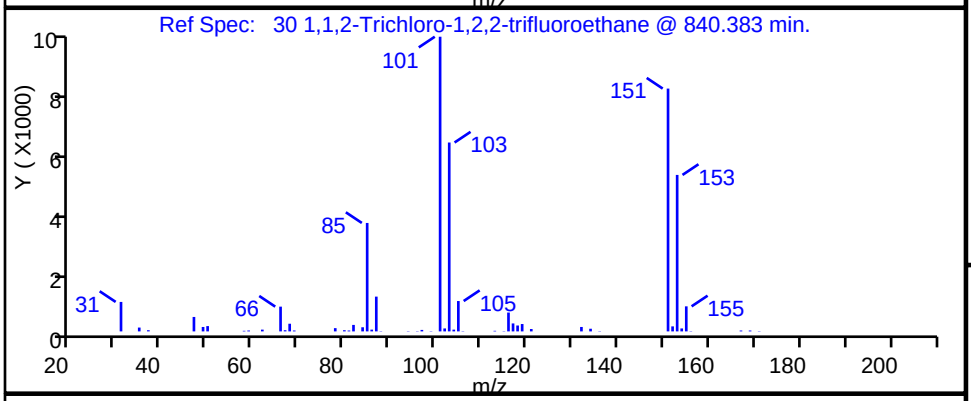
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

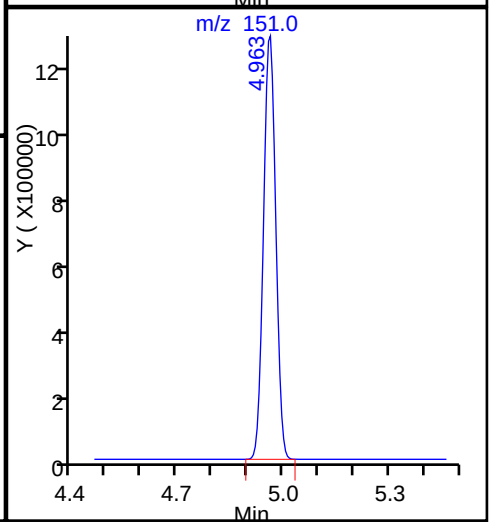


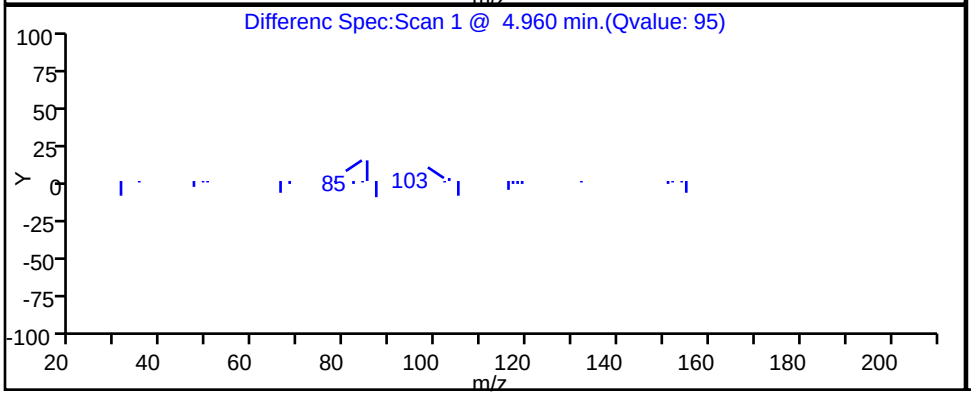






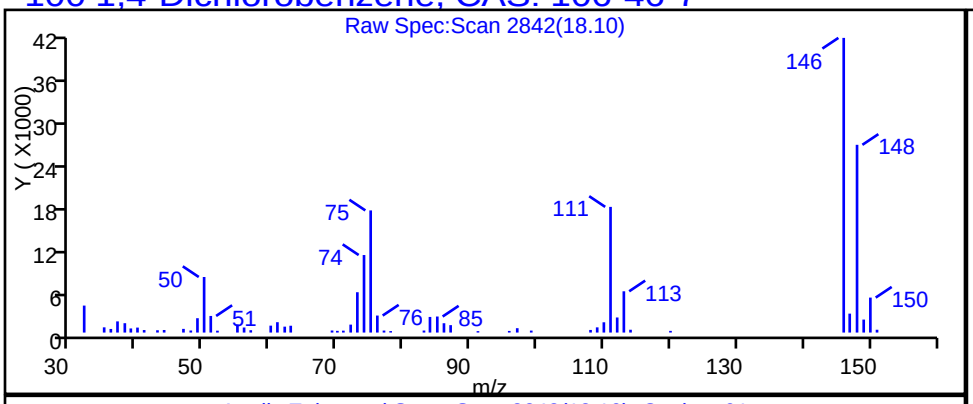


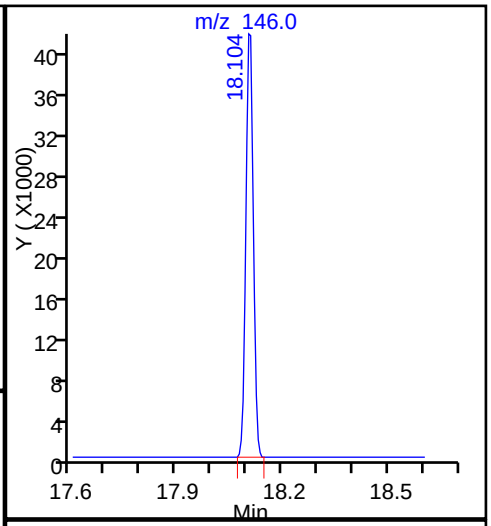


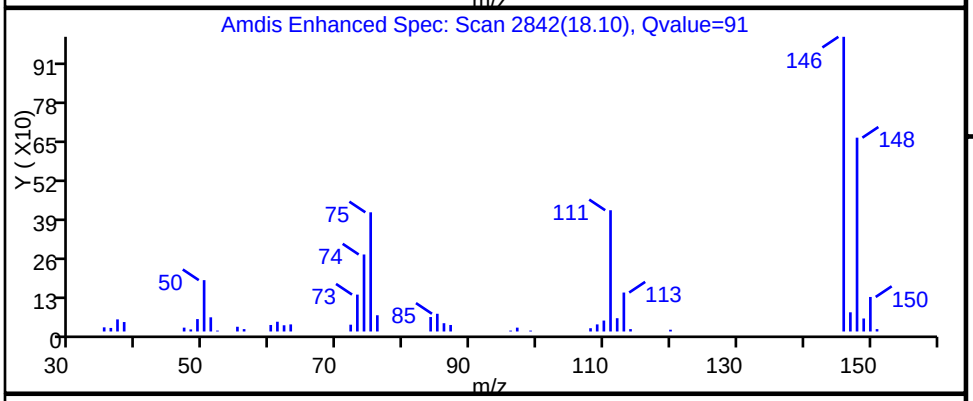


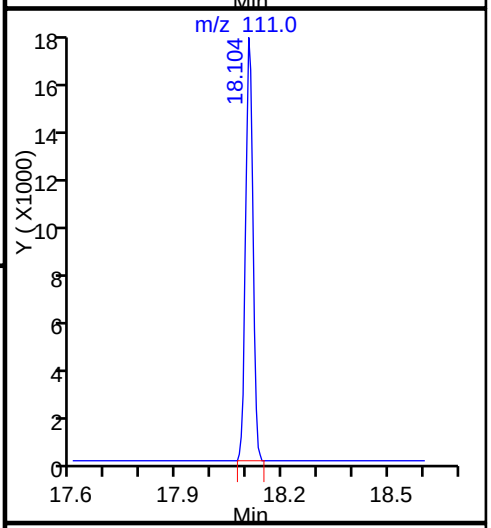
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Injection Date: 01-Sep-2016 21:55:30 Instrument ID: ME
Lims ID: 140-5720-A-13 Lab Sample ID: 140-5720-13
Client ID: SG-222
Operator ID: 007126 ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.5100
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

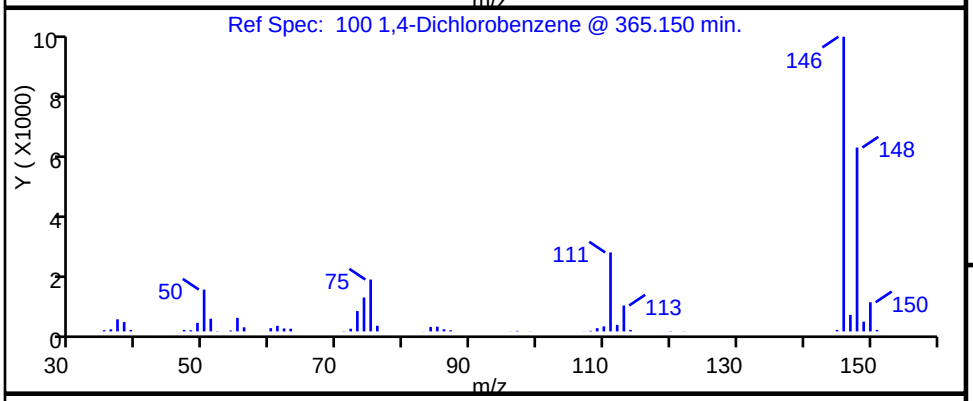
100 1,4-Dichlorobenzene, CAS: 106-46-7

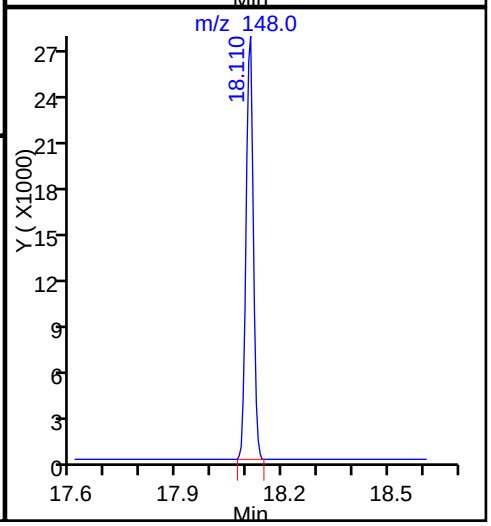


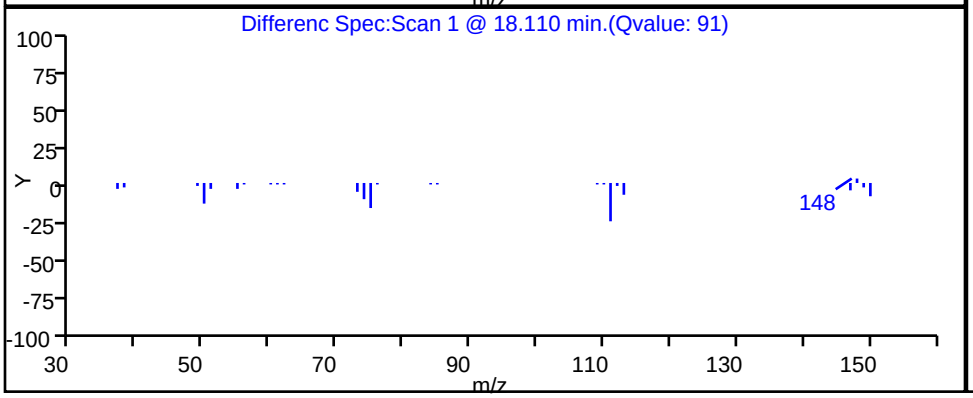








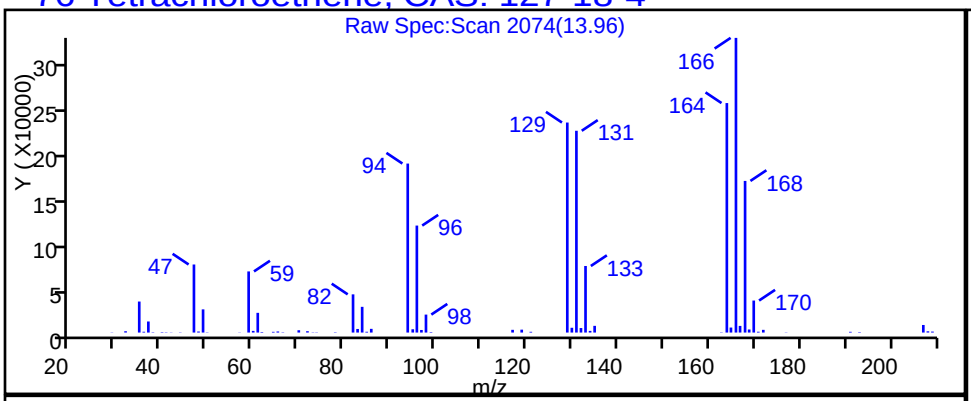


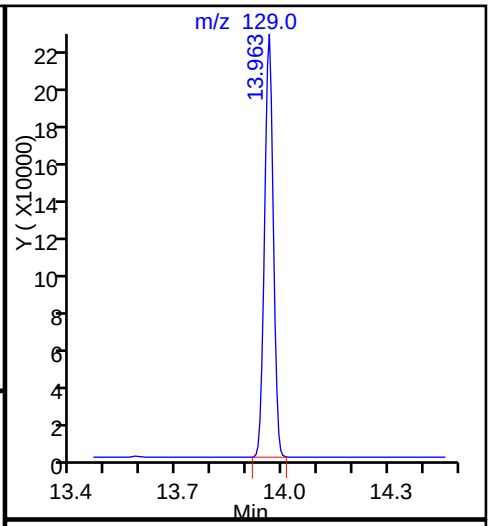


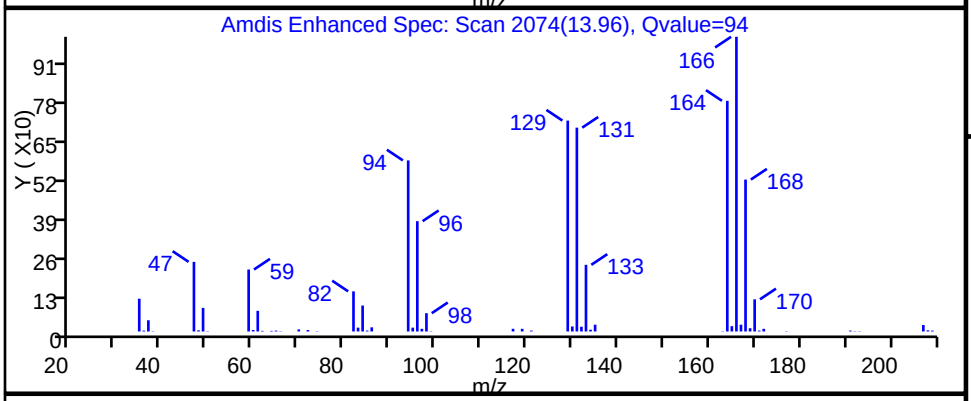
TestAmerica Knoxville

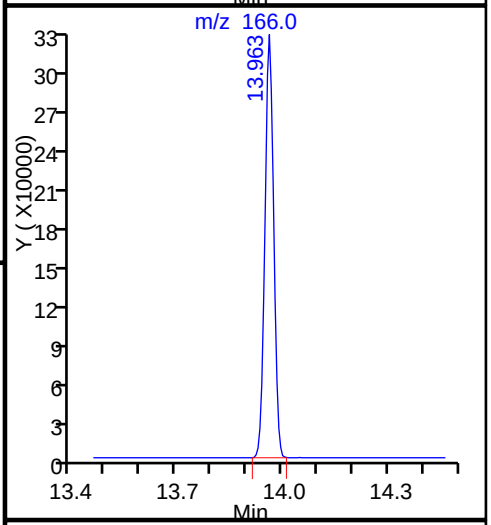
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Injection Date:	01-Sep-2016 21:55:30	Instrument ID:	ME
Lims ID:	140-5720-A-13	Lab Sample ID:	140-5720-13
Client ID:	SG-222		
Operator ID:	007126	ALS Bottle#:	14 Worklist Smp#: 17
Purge Vol:	500.000 mL	Dil. Factor:	1.5100
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN

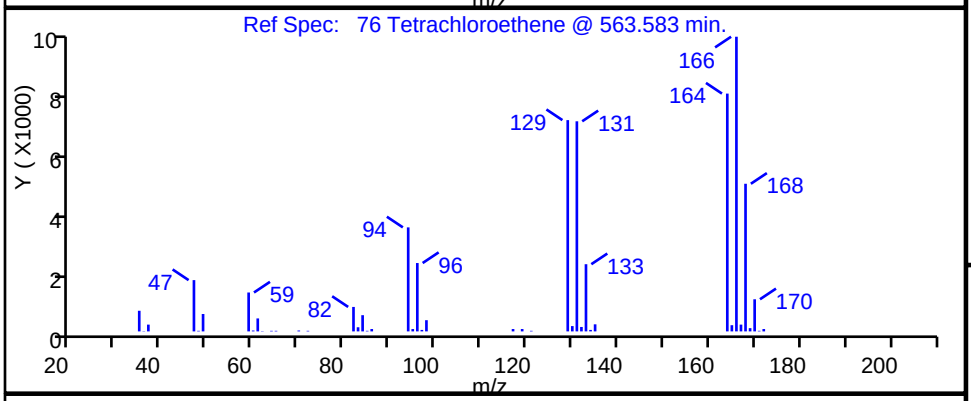
76 Tetrachloroethene, CAS: 127-18-4

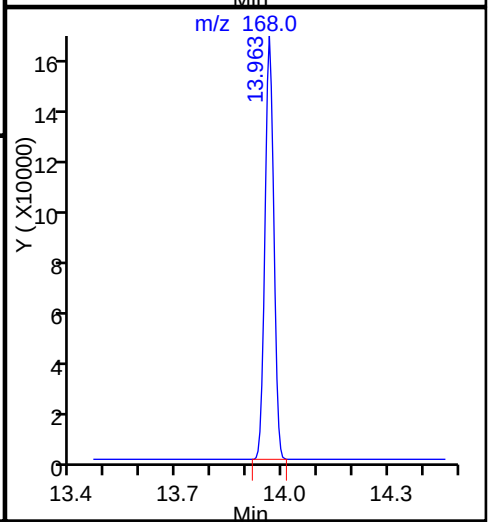


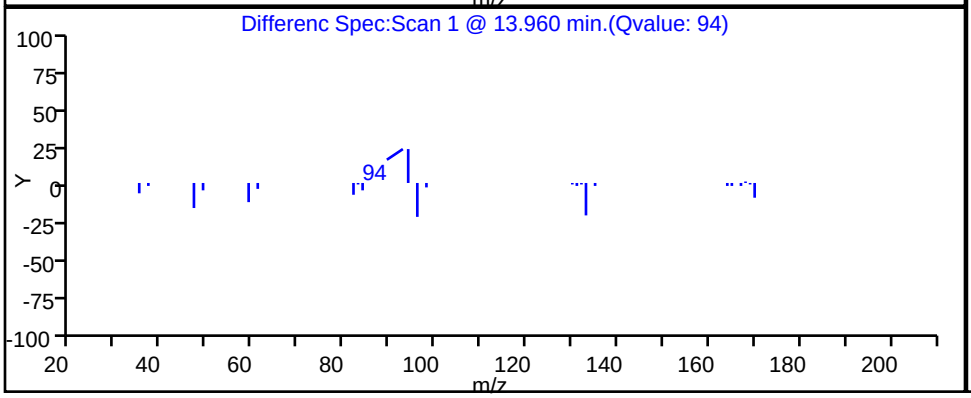








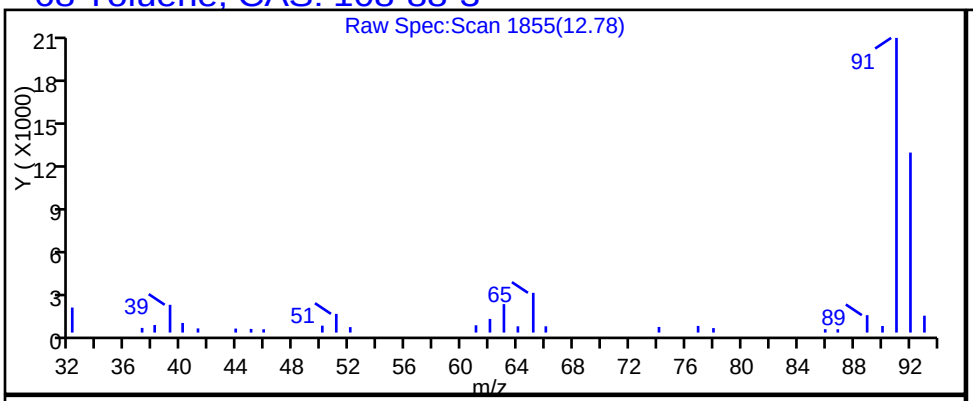


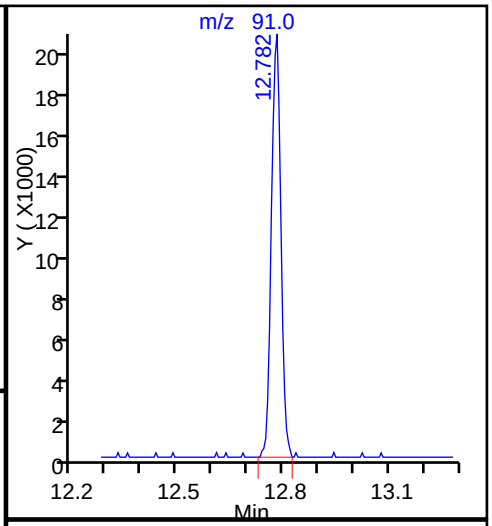


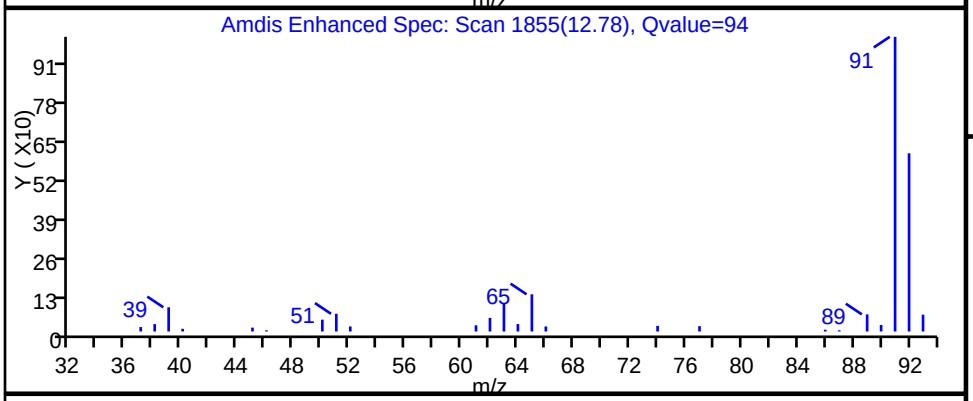
TestAmerica Knoxville

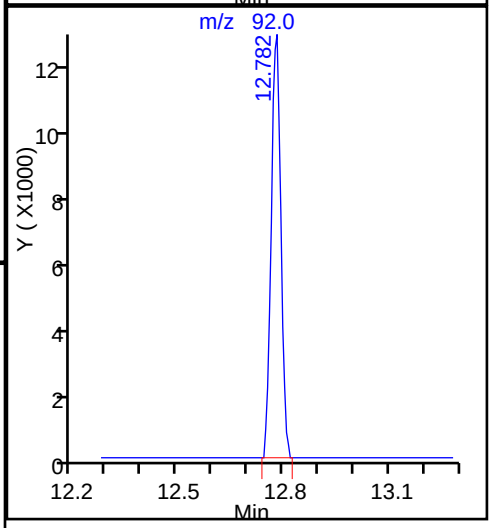
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Injection Date:	01-Sep-2016 21:55:30	Instrument ID:	ME		
Lims ID:	140-5720-A-13	Lab Sample ID:	140-5720-13		
Client ID:	SG-222				
Operator ID:	007126	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.5100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

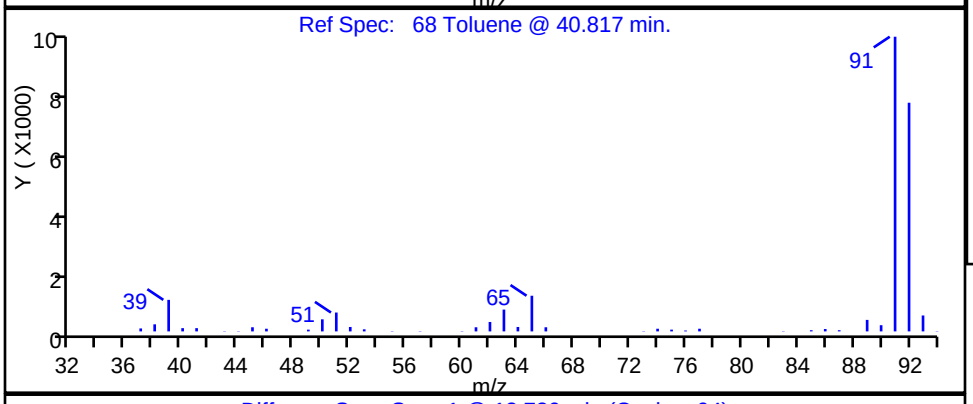
68 Toluene, CAS: 108-88-3

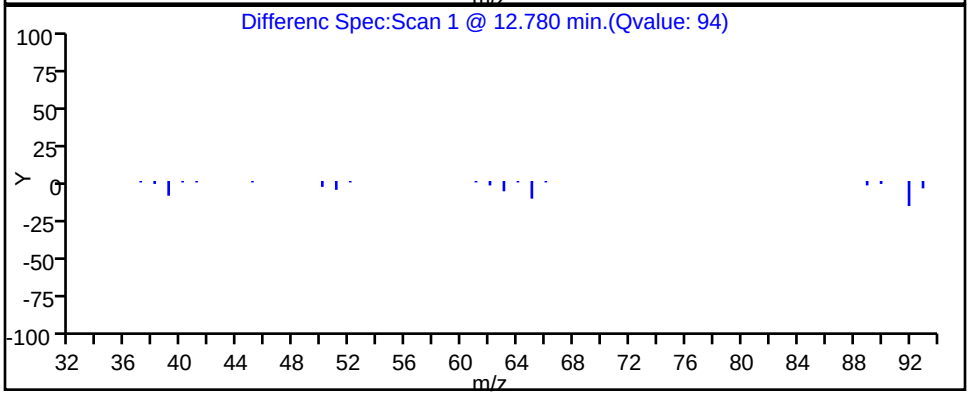












Manual Integration/User Assign Peak Report

TestAmerica Knoxville

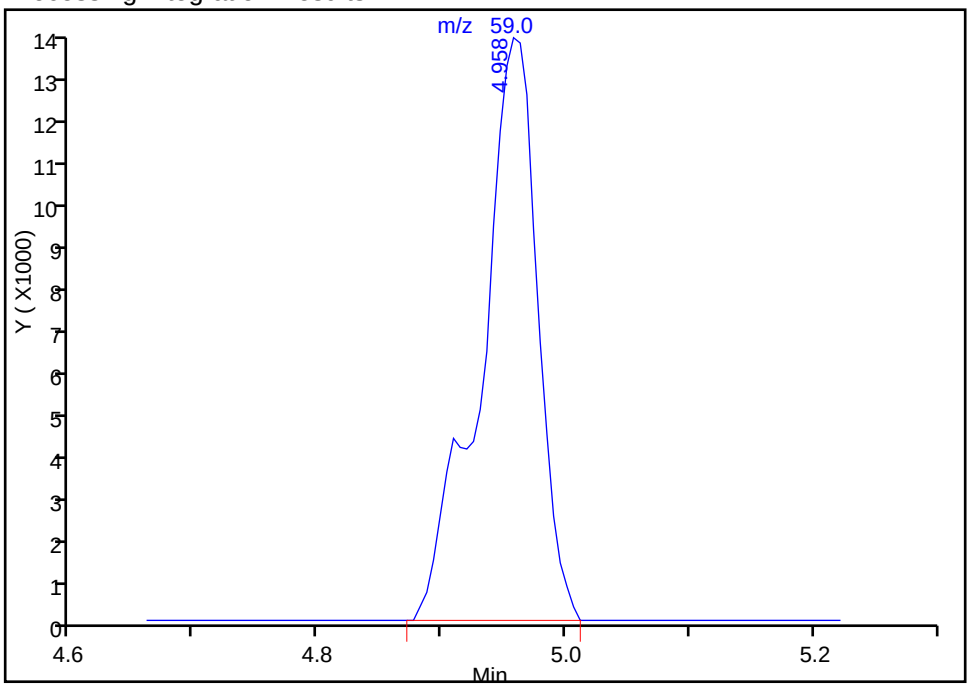
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Injection Date:	01-Sep-2016 21:55:30	Instrument ID:	ME		
Lims ID:	140-5720-A-13	Lab Sample ID:	140-5720-13		
Client ID:	SG-222				
Operator ID:	007126	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.5100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

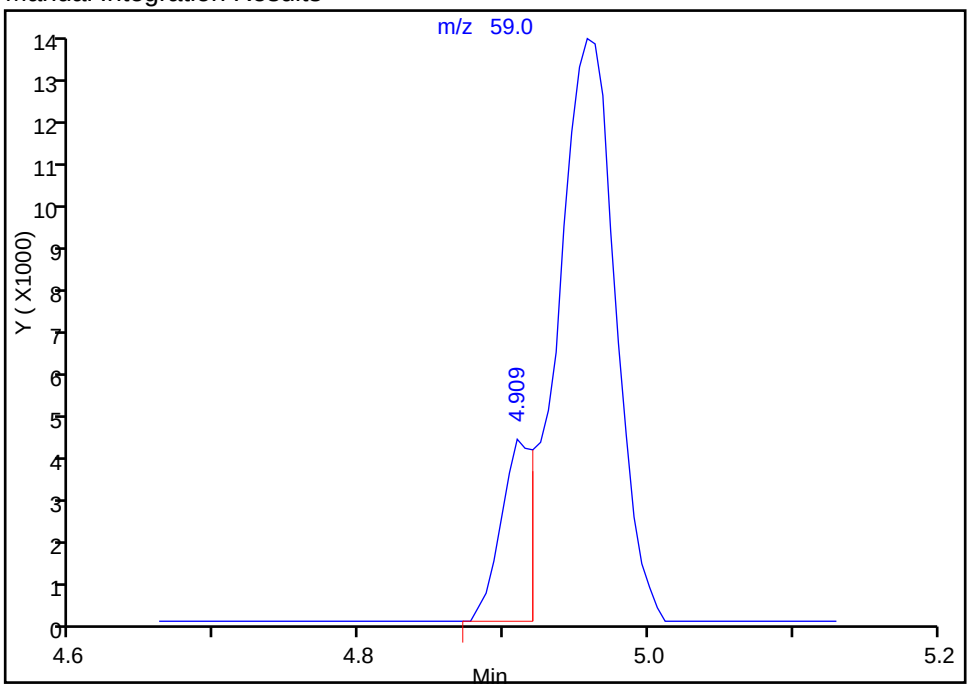
Processing Integration Results

RT: 4.96
Area: 42606
Amount: 0.345169
Amount Units: ppb v/v



Manual Integration Results

RT: 4.91
Area: 6552
Amount: 0.053080
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 02-Sep-2016 12:31:04

Audit Action: Marked Compound Undetected Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Knoxville

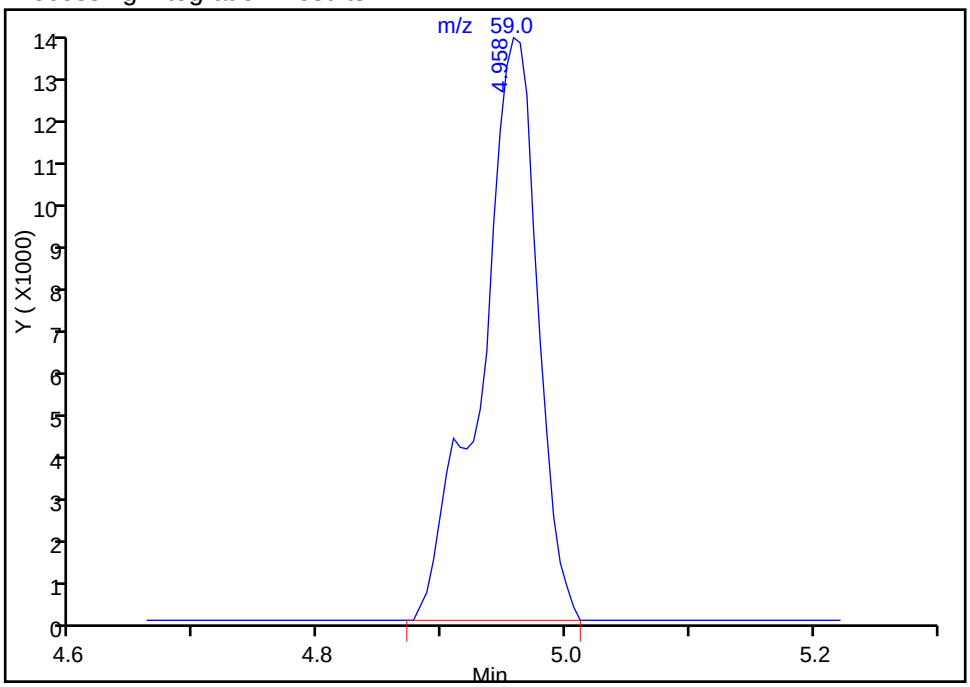
Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P114.D				
Injection Date:	01-Sep-2016 21:55:30	Instrument ID:	ME		
Lims ID:	140-5720-A-13	Lab Sample ID:	140-5720-13		
Client ID:	SG-222				
Operator ID:	007126	ALS Bottle#:	14	Worklist Smp#:	17
Purge Vol:	500.000 mL	Dil. Factor:	1.5100		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

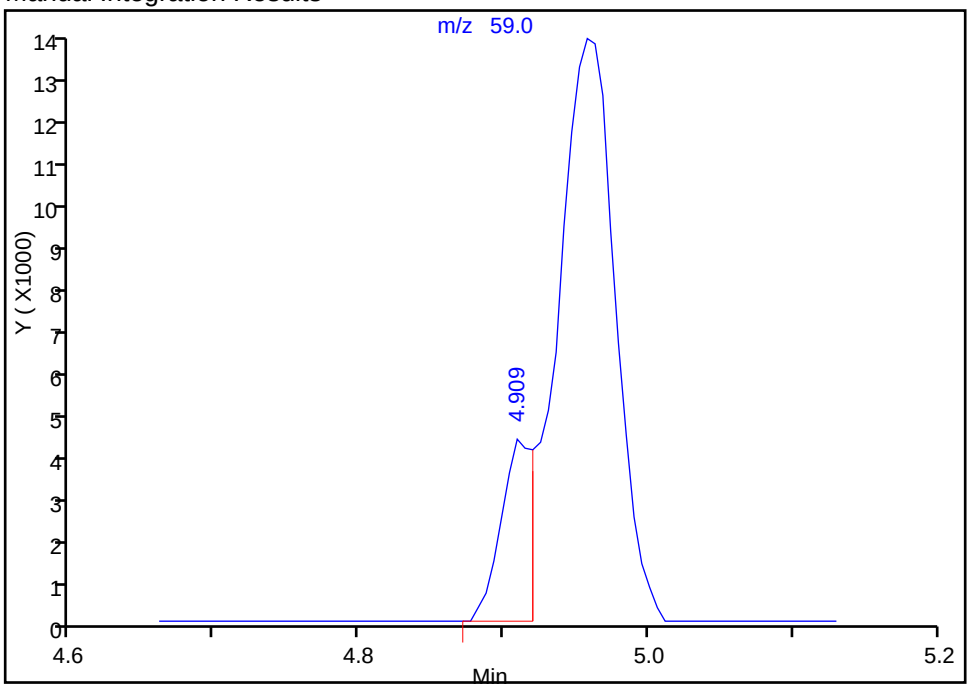
Processing Integration Results

RT: 4.96
Area: 42606
Amount: 0.345169
Amount Units: ppb v/v



Manual Integration Results

RT: 4.91
Area: 6552
Amount: 0.053080
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 02-Sep-2016 12:31:04

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.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 DL Lab Sample ID: 140-5720-13 DL

Matrix: Air Lab File ID: EI02p108.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:29

Sample wt/vol: 11(mL) Date Analyzed: 09/02/2016 22:00

Soil Aliquot Vol: Dilution Factor: 1.51

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6493 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	570	D	5.5	

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.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 DL Lab Sample ID: 140-5720-13 DL

Matrix: Air Lab File ID: EI02p108.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:29

Sample wt/vol: 11(mL) Date Analyzed: 09/02/2016 22:00

Soil Aliquot Vol: Dilution Factor: 1.51

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6493 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	4400	D	42	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\EI02p108.D				
Lims ID:	140-5720-A-13				
Client ID:	SG-222				
Sample Type:	Client				
Inject. Date:	02-Sep-2016 22:00:30	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.5100		
Sample Info:	140-0003370-013				
Misc. Info.:	140-5720-A-13@1.51				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	03-Sep-2016 13:12:16	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: barlozhetskayaa		Date:	03-Sep-2016 13:12:16		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.563	7.573	-0.010	73	298428	4.00	
* 2 1,4-Difluorobenzene	114	9.806	9.816	-0.010	94	1415817	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1265796	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.482	16.487	-0.005	86	1017098	3.93	
9 Chloromethane	52	3.270	3.098	0.172	32	2685	0.1333	
20 Trichlorofluoromethane	101	4.171	4.171	0.000	97	6353	0.0209	
27 1,1-Dichloroethene	96	4.947	4.785	0.162	31	6127	0.0673	
28 2-Methyl-2-propanol	59	4.942	4.882	0.060	41	16223	0.1313	
30 1,1,2-Trichloro-1,2,2-trif	101	4.942	4.947	-0.005	95	1627671	8.30	
31 Methylene Chloride	84	5.098	5.109	-0.011	80	7215	0.0771	
39 2-Butanone (MEK)	72	6.835	6.834	0.001	92	7468	0.1717	
40 Hexane	56	6.840	6.845	-0.005	52	2303	0.0395	
44 Chloroform	83	7.579	7.589	-0.010	87	8710	0.0350	
51 Benzene	78	9.191	9.202	-0.011	72	8276	0.0285	
65 4-Methyl-2-pentanone (MIBK	43	11.893	11.887	0.006	83	2570	0.0226	
68 Toluene	91	12.772	12.782	-0.010	94	17416	0.0574	
76 Tetrachloroethene	129	13.958	13.963	-0.005	94	179974	1.52	
98 1,3-Dichlorobenzene	146	18.105	18.013	0.092	97	29614	0.1363	
100 1,4-Dichlorobenzene	146	18.105	18.110	-0.005	90	29614	0.1402	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

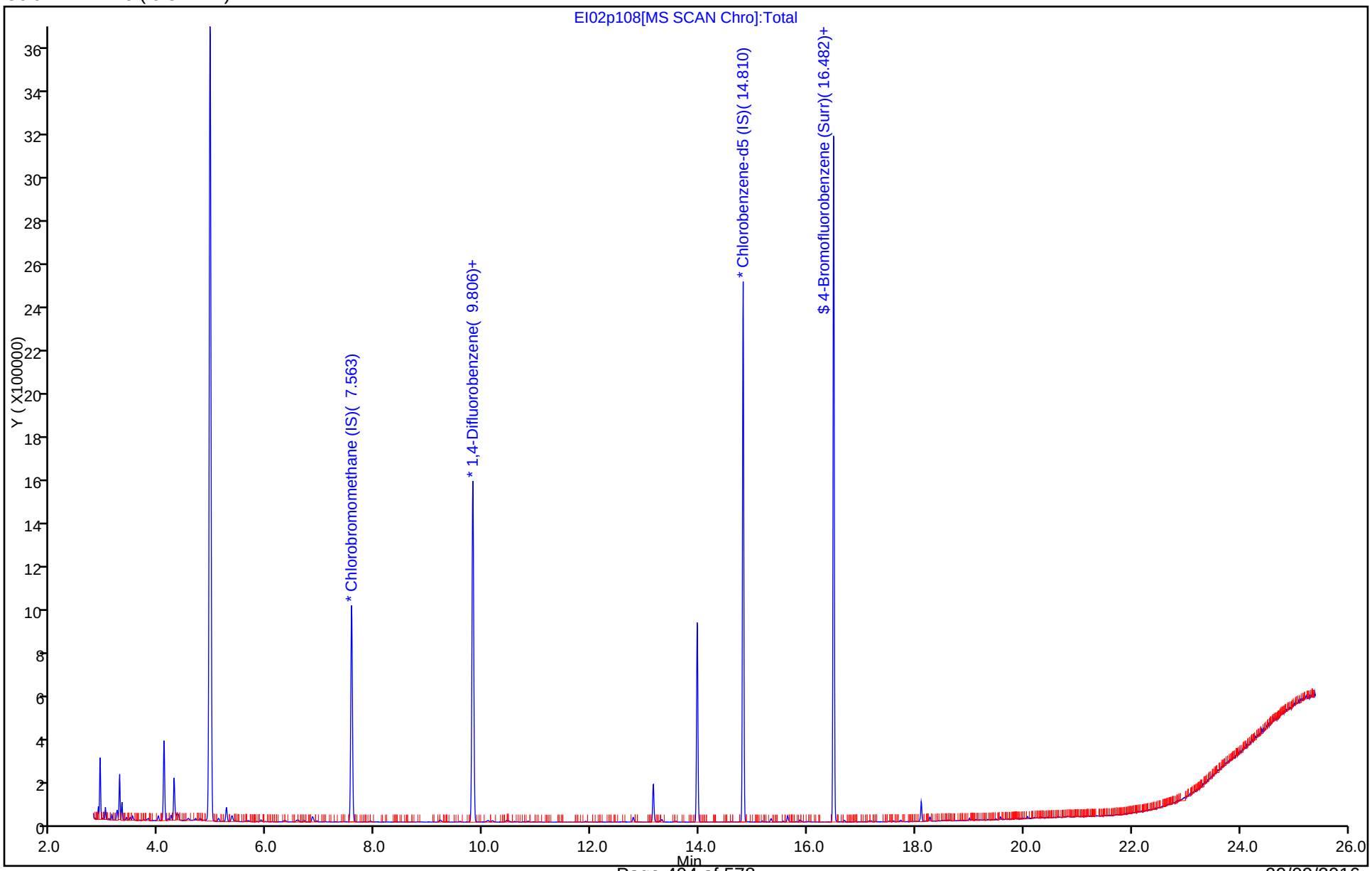
Report Date: 03-Sep-2016 13:12:17 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\EI02p108.D

Injection Date:	02-Sep-2016 22:00:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	140-5720-A-13	Lab Sample ID:	140-5720-13	Worklist Smp#:	13
Client ID:	SG-222				
Purge Vol:	500.000 mL	Dil. Factor:	1.5100	ALS Bottle#:	8
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



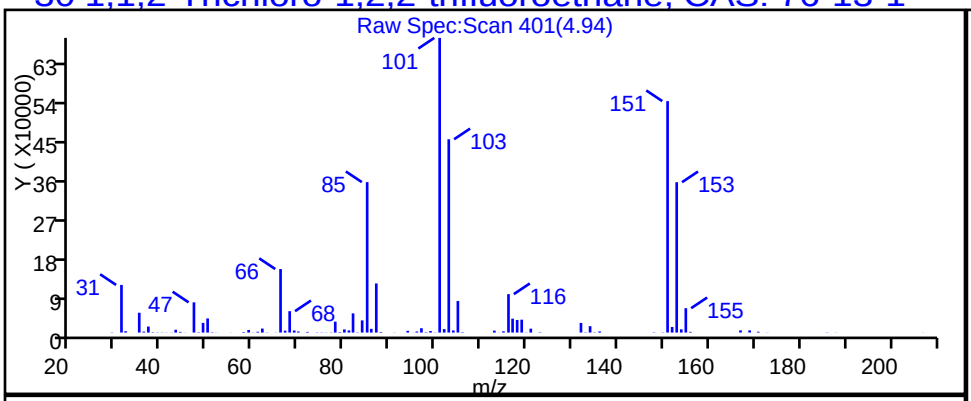
TestAmerica Knoxville
Recovery Report

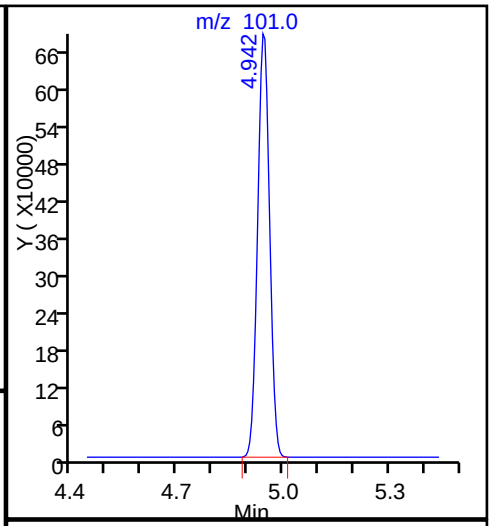
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Lims ID:	140-5720-A-13				
Client ID:	SG-222				
Sample Type:	Client				
Inject. Date:	02-Sep-2016 22:00:30	ALS Bottle#:	8	Worklist Smp#:	13
Purge Vol:	500.000 mL	Dil. Factor:	1.5100		
Sample Info:	140-0003370-013				
Misc. Info.:	140-5720-A-13@1.51				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	03-Sep-2016 13:12:16	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: barlozhetskayaa		Date:	03-Sep-2016 13:12:16		

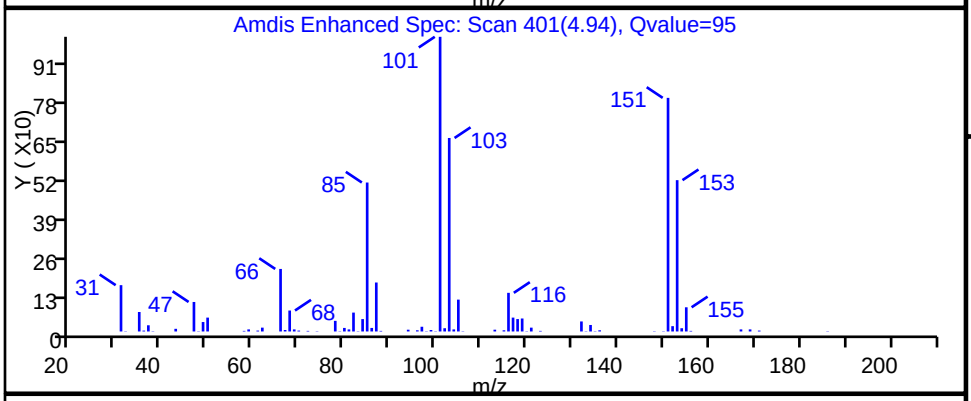
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	3.93	98.17

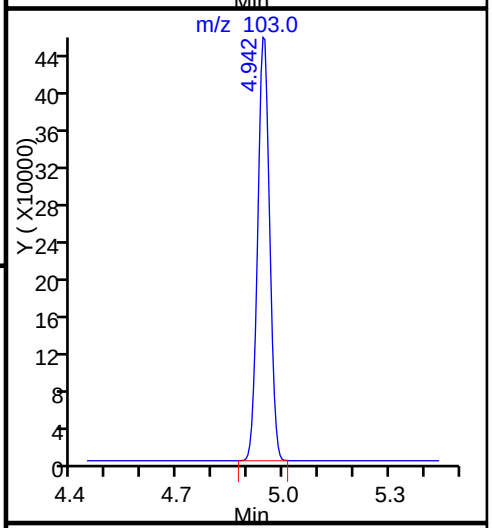
Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\EI02p108.D
Injection Date: 02-Sep-2016 22:00:30 Instrument ID: ME
Lims ID: 140-5720-A-13 Lab Sample ID: 140-5720-13
Client ID: SG-222
Operator ID: 403648 ALS Bottle#: 8 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.5100
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

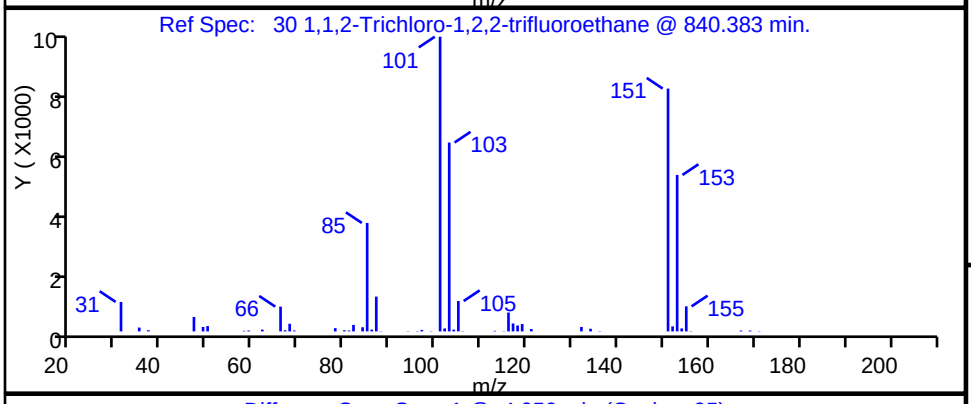
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

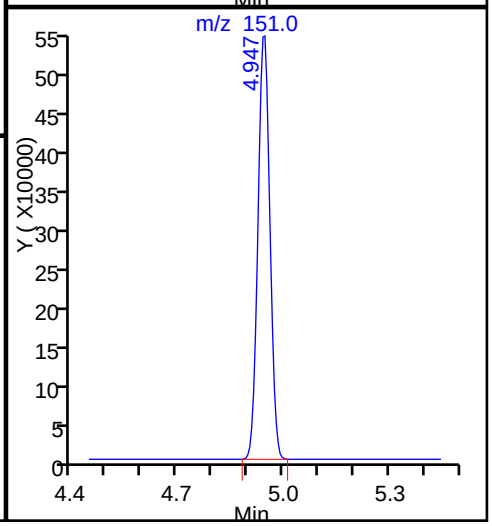


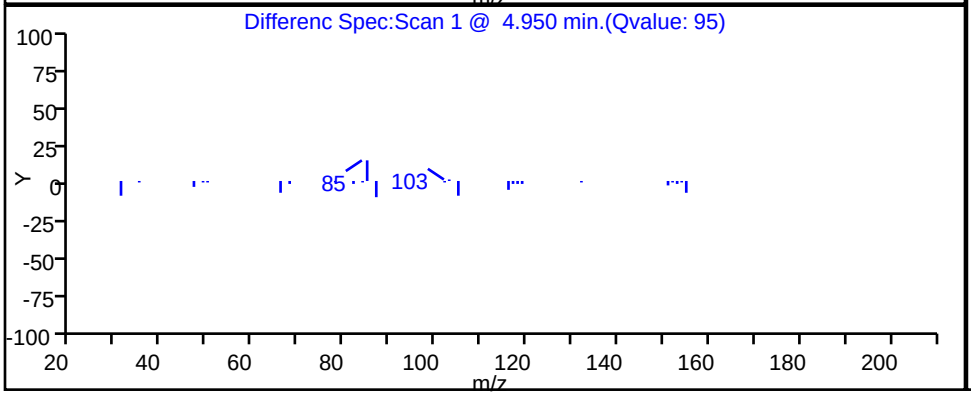












FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 | Lab Sample ID: 140-5720-14

Matrix: Air | Lab File ID: EI01P115.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:28

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 22:38

Soil Aliquot Vol: | Dilution Factor: 25.98

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		52	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		52	
79-00-5	1,1,2-Trichloroethane	133.41	ND		52	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	8000		52	
75-34-3	1,1-Dichloroethane	98.96	ND		52	
75-35-4	1,1-Dichloroethene	96.94	ND		52	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		52	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		52	
106-93-4	1,2-Dibromoethane	187.87	ND		52	
95-50-1	1,2-Dichlorobenzene	147.00	ND		52	
107-06-2	1,2-Dichloroethane	98.96	ND		52	
78-87-5	1,2-Dichloropropane	112.99	ND		52	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		52	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		52	
541-73-1	1,3-Dichlorobenzene	147.00	ND		52	
106-46-7	1,4-Dichlorobenzene	147.00	ND		52	
123-91-1	1,4-Dioxane	88.11	ND		130	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		130	
78-93-3	2-Butanone	72.11	ND		210	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		130	
71-43-2	Benzene	78.11	ND		52	
100-44-7	Benzyl chloride	126.58	ND		100	
75-27-4	Bromodichloromethane	163.83	ND		52	
75-25-2	Bromoform	252.75	ND		52	
74-83-9	Bromomethane	94.94	ND		52	
56-23-5	Carbon tetrachloride	153.81	ND		26	
108-90-7	Chlorobenzene	112.56	ND		52	
75-00-3	Chloroethane	64.52	ND		52	
67-66-3	Chloroform	119.38	ND		52	
74-87-3	Chloromethane	50.49	ND		130	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		52	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		52	
110-82-7	Cyclohexane	84.16	ND		130	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 Lab Sample ID: 140-5720-14

Matrix: Air Lab File ID: EI01P115.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:28

Sample wt/vol: 20(mL) Date Analyzed: 09/01/2016 22:38

Soil Aliquot Vol: Dilution Factor: 25.98

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		52	
75-71-8	Dichlorodifluoromethane	120.91	ND		52	
64-17-5	Ethanol	46.07	ND		1300	
100-41-4	Ethylbenzene	106.17	ND		52	
87-68-3	Hexachlorobutadiene	260.76	ND		52	
110-54-3	Hexane	86.17	ND		130	
1634-04-4	Methyl tert-butyl ether	88.15	ND		100	
75-09-2	Methylene Chloride	84.93	ND		130	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		52	
95-47-6	o-Xylene	106.17	ND		52	
100-42-5	Styrene	104.15	ND		52	
75-65-0	t-Butyl alcohol	74.12	ND		210	
127-18-4	Tetrachloroethene	165.83	150		52	
108-88-3	Toluene	92.14	ND		78	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		52	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		52	
79-01-6	Trichloroethene	131.39	ND		26	
75-69-4	Trichlorofluoromethane	137.37	ND		52	
75-01-4	Vinyl chloride	62.50	ND		26	

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.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 | Lab Sample ID: 140-5720-14

Matrix: Air | Lab File ID: EI01P115.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:28

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 22:38

Soil Aliquot Vol: | Dilution Factor: 25.98

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		280	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		360	
79-00-5	1,1,2-Trichloroethane	133.41	ND		280	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	62000		400	
75-34-3	1,1-Dichloroethane	98.96	ND		210	
75-35-4	1,1-Dichloroethene	96.94	ND		210	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		390	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		260	
106-93-4	1,2-Dibromoethane	187.87	ND		400	
95-50-1	1,2-Dichlorobenzene	147.00	ND		310	
107-06-2	1,2-Dichloroethane	98.96	ND		210	
78-87-5	1,2-Dichloropropane	112.99	ND		240	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		360	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		260	
541-73-1	1,3-Dichlorobenzene	147.00	ND		310	
106-46-7	1,4-Dichlorobenzene	147.00	ND		310	
123-91-1	1,4-Dioxane	88.11	ND		470	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		610	
78-93-3	2-Butanone	72.11	ND		610	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		530	
71-43-2	Benzene	78.11	ND		170	
100-44-7	Benzyl chloride	126.58	ND		540	
75-27-4	Bromodichloromethane	163.83	ND		350	
75-25-2	Bromoform	252.75	ND		540	
74-83-9	Bromomethane	94.94	ND		200	
56-23-5	Carbon tetrachloride	153.81	ND		160	
108-90-7	Chlorobenzene	112.56	ND		240	
75-00-3	Chloroethane	64.52	ND		140	
67-66-3	Chloroform	119.38	ND		250	
74-87-3	Chloromethane	50.49	ND		270	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		210	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		240	
110-82-7	Cyclohexane	84.16	ND		450	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 Lab Sample ID: 140-5720-14

Matrix: Air Lab File ID: EI01P115.D

Analysis Method: TO 15 LL Date Collected: 08/24/2016 11:28

Sample wt/vol: 20(mL) Date Analyzed: 09/01/2016 22:38

Soil Aliquot Vol: Dilution Factor: 25.98

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		440	
75-71-8	Dichlorodifluoromethane	120.91	ND		260	
64-17-5	Ethanol	46.07	ND		2400	
100-41-4	Ethylbenzene	106.17	ND		230	
87-68-3	Hexachlorobutadiene	260.76	ND		550	
110-54-3	Hexane	86.17	ND		460	
1634-04-4	Methyl tert-butyl ether	88.15	ND		370	
75-09-2	Methylene Chloride	84.93	ND		450	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		230	
95-47-6	o-Xylene	106.17	ND		230	
100-42-5	Styrene	104.15	ND		220	
75-65-0	t-Butyl alcohol	74.12	ND		630	
127-18-4	Tetrachloroethene	165.83	1000		350	
108-88-3	Toluene	92.14	ND		290	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		210	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		240	
79-01-6	Trichloroethene	131.39	ND		140	
75-69-4	Trichlorofluoromethane	137.37	ND		290	
75-01-4	Vinyl chloride	62.50	ND		66	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P115.D				
Lims ID:	140-5720-A-14				
Client ID:	SG-221				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 22:38:30	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	25.9800		
Sample Info:	140-0003369-018				
Misc. Info.:	140-5720-a-14@25.98				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 12:31:04	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: barlozhetskayaa		Date:	02-Sep-2016 10:31:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.562	7.568	-0.006	74	221412	4.00	
* 2 1,4-Difluorobenzene	114	9.805	9.811	-0.006	94	1025713	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	888172	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	87	696927	3.83	
30 1,1,2-Trichloro-1,2,2-trif	101	4.941	4.942	-0.001	96	1800491	12.4	
31 Methylene Chloride	84	5.098	5.103	-0.005	79	4356	0.0627	
76 Tetrachloroethene	129	13.958	13.963	-0.005	93	19178	0.2314	
100 1,4-Dichlorobenzene	146	18.104	18.110	-0.006	87	5864	0.0396	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

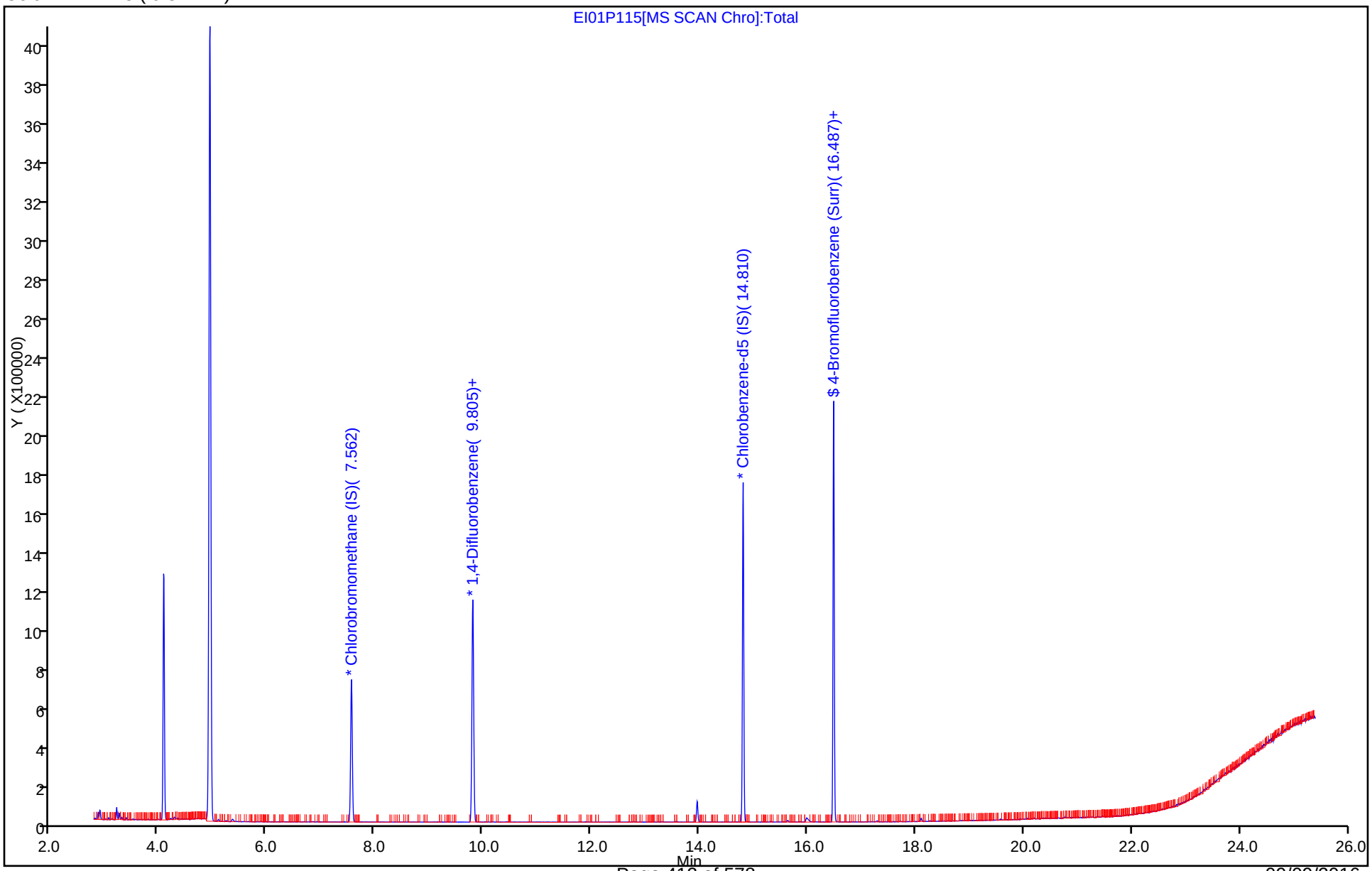
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TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EI01P115.D

Injection Date:	01-Sep-2016 22:38:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	140-5720-A-14	Lab Sample ID:	140-5720-14	Worklist Smp#:	18
Client ID:	SG-221				
Purge Vol:	500.000 mL	Dil. Factor:	25.9800	ALS Bottle#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

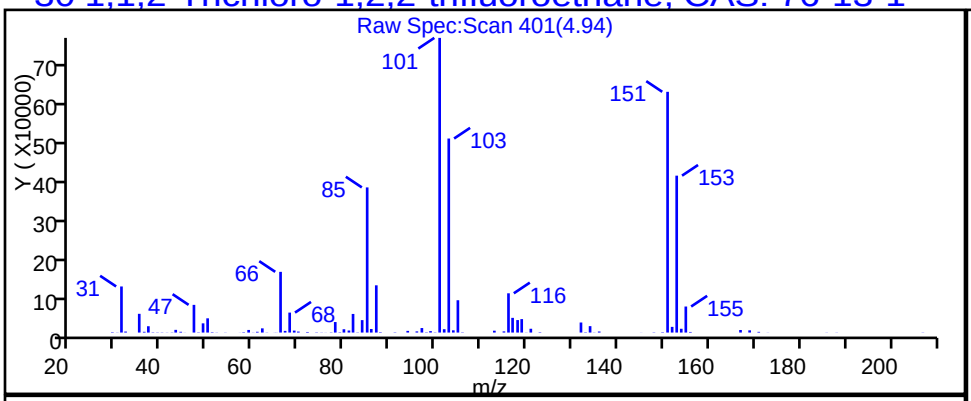
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Lims ID:	140-5720-A-14				
Client ID:	SG-221				
Sample Type:	Client				
Inject. Date:	01-Sep-2016 22:38:30	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	25.9800		
Sample Info:	140-0003369-018				
Misc. Info.:	140-5720-a-14@25.98				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 12:31:04	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

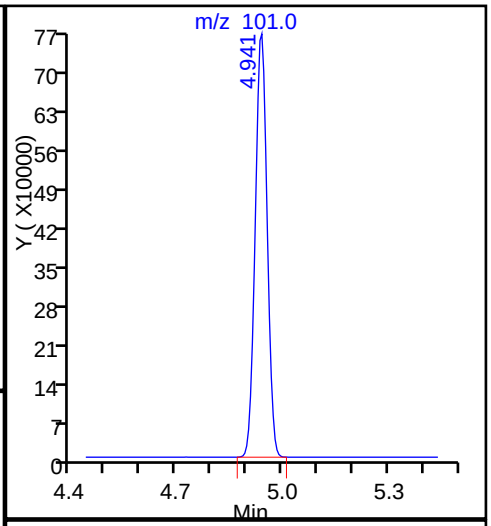
First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 10:31:57

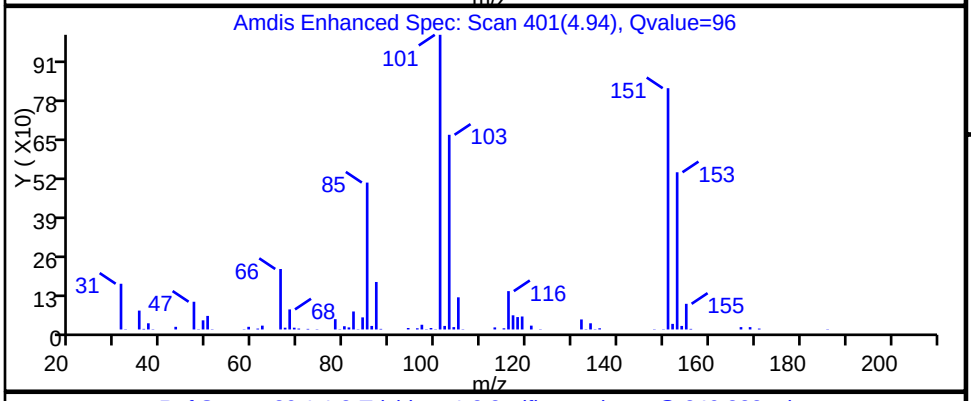
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	3.83	95.87

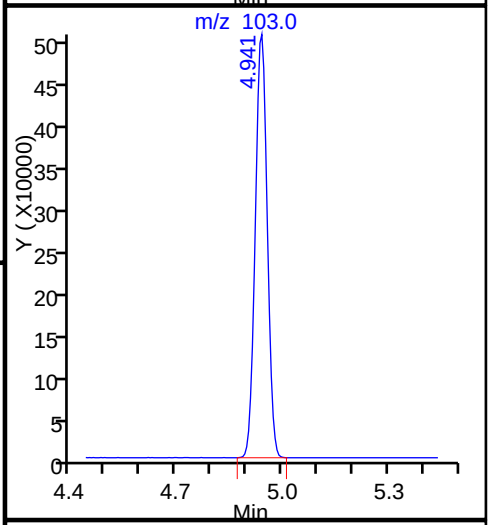
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Injection Date: 01-Sep-2016 22:38:30 Instrument ID: ME
Lims ID: 140-5720-A-14 Lab Sample ID: 140-5720-14
Client ID: SG-221
Operator ID: 007126 ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 500.000 mL Dil. Factor: 25.9800
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

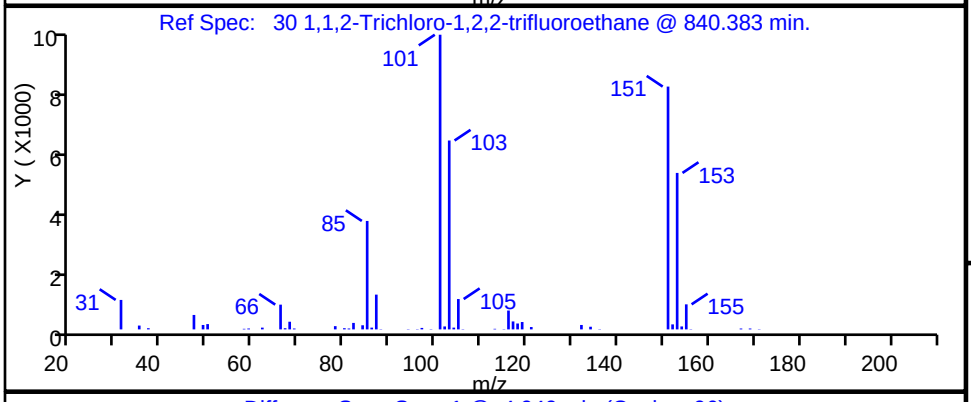
30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

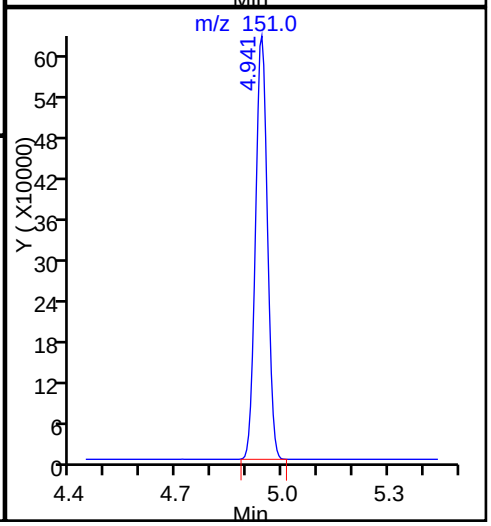


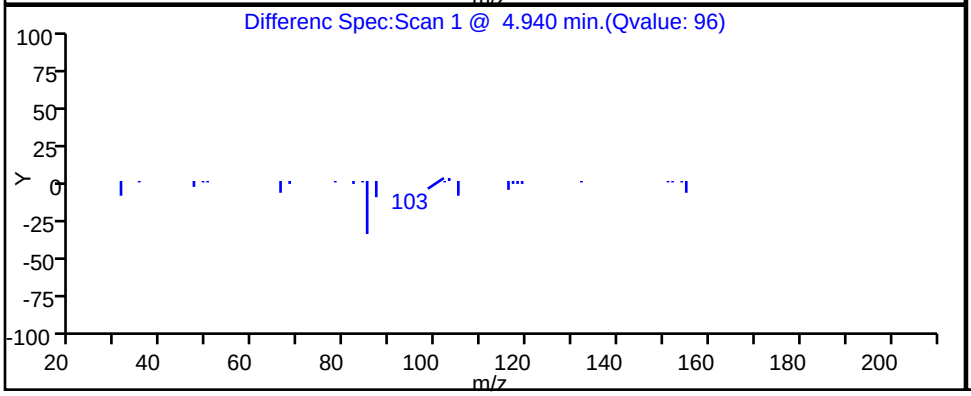








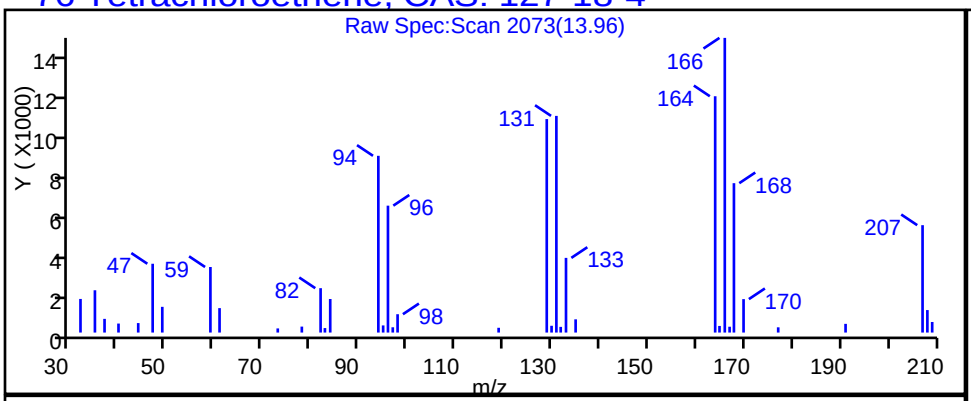


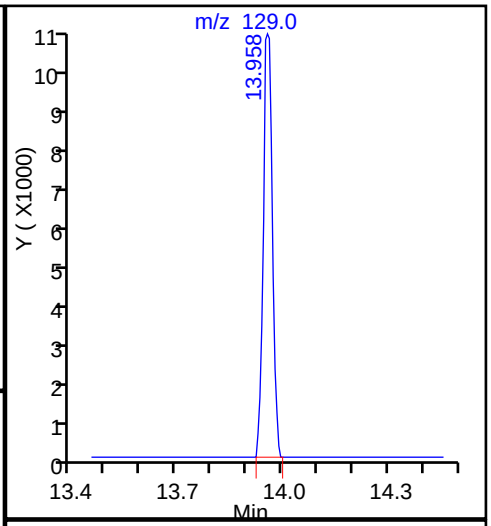


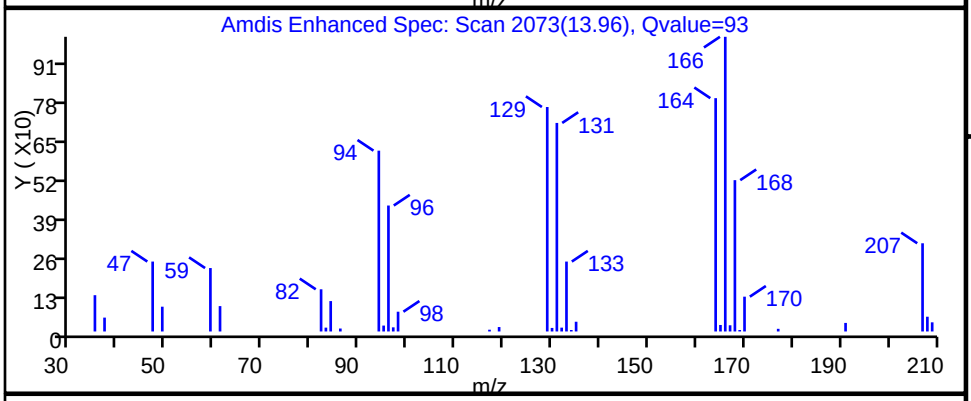
TestAmerica Knoxville

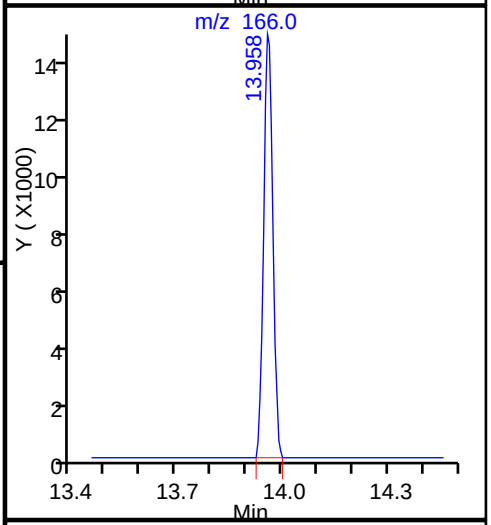
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Injection Date:	01-Sep-2016 22:38:30	Instrument ID:	ME		
Lims ID:	140-5720-A-14	Lab Sample ID:	140-5720-14		
Client ID:	SG-221				
Operator ID:	007126	ALS Bottle#:	15	Worklist Smp#:	18
Purge Vol:	500.000 mL	Dil. Factor:	25.9800		
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		
Column:	RTX-5 (0.32 mm)	Detector	MS SCAN		

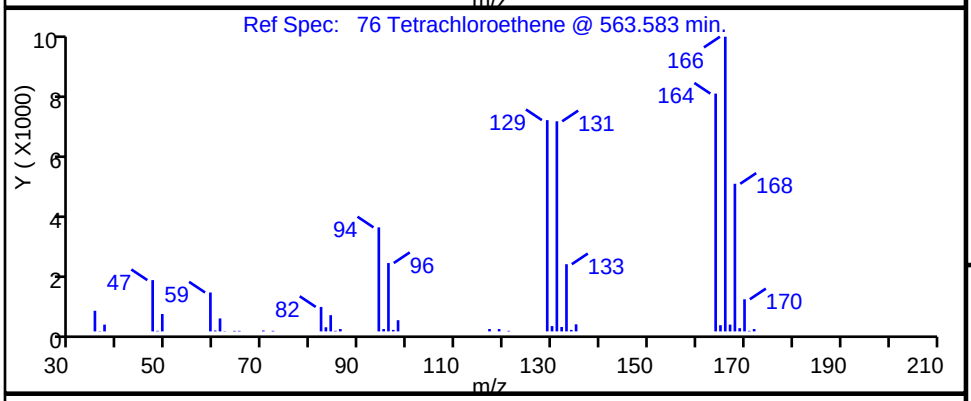
76 Tetrachloroethene, CAS: 127-18-4

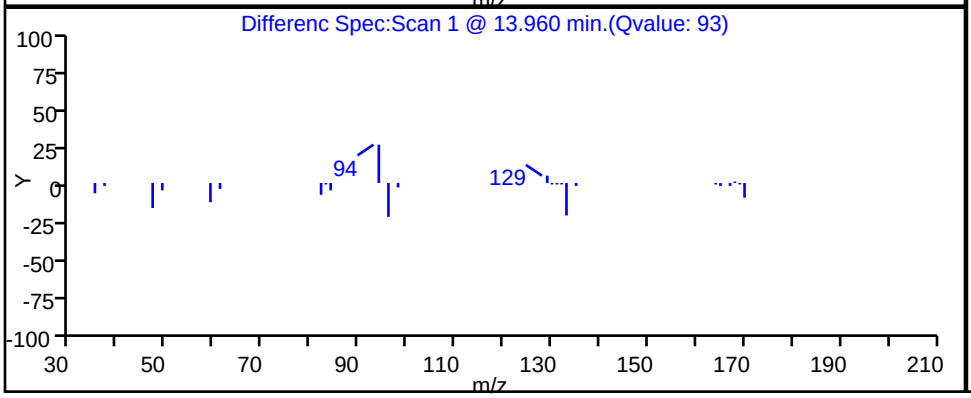


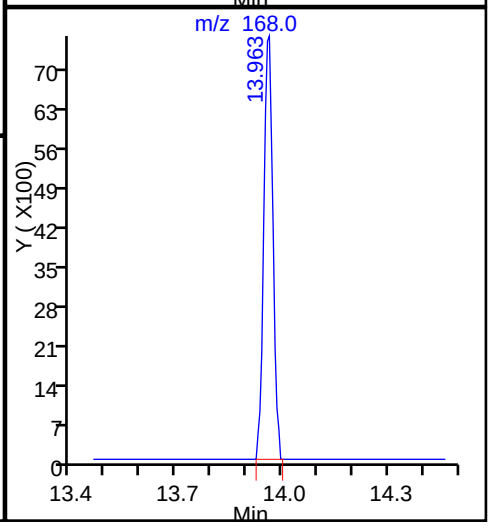












FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-6379/3	EH23IC01A.D
Level 2	IC 140-6379/4	EH23IC02A.D
Level 3	IC 140-6379/5	EH23IC03A.D
Level 4	IC 140-6379/6	EH23IC04.D
Level 5	IC 140-6379/7	EH23IC05.D
Level 6	ICIS 140-6379/8	EH23IC06.D
Level 7	IC 140-6379/9	EH23IC07.D
Level 8	IC 140-6379/10	EH23IC08.D
Level 9	IC 140-6379/11	EH23IC09.D

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								
Chlorodifluoromethane	+++++ 0.4591	0.5657 0.4612	0.4705 0.4677	0.4594 0.4369	0.4759	Ave		0.4745				8.1		30.0			
Propene	+++++ 0.6245	0.6890 0.6168	0.7232 0.6449	0.6694 0.6037	0.6479	Ave		0.6524				6.1		30.0			
Dichlorodifluoromethane	4.8118 4.2351	4.4782 4.0016	4.2723 3.9991	4.2868 3.4845	4.2878	Ave		4.2063				8.7		30.0			
Chloromethane	0.3136 0.2329	0.3661 0.2325	0.3162 0.2365	0.2575 0.2236	0.2518	Ave		0.2701				18.4		30.0			
1,2-Dichlorotetrafluoroethane	2.5118 2.2402	2.3828 2.0142	2.2476 2.1779	2.3122 1.9666	2.2719	Ave		2.2361				7.6		30.0			
Acetaldehyde	+++++ 0.2386	+++++ 0.2241	+++++ 0.2327	0.3118 0.2285	0.3079	Ave		0.2573				16.0		30.0			
Vinyl chloride	1.2287 1.0444	1.0759 1.0541	1.0747 1.1009	1.0314 1.0210	1.0718	Ave		1.0781				5.7		30.0			
Butane	1.4284 1.1074	1.2361 1.1179	1.1431 1.1642	1.1373 1.1112	1.1398	Ave		1.1762				8.7		30.0			
1,3-Butadiene	0.7630 0.6447	0.7460 0.6550	0.6478 0.6912	0.6570 0.6615	0.6738	Ave		0.6822				6.4		30.0			
Bromomethane	+++++ 1.1648	1.4162 1.1882	1.1868 1.2305	1.1895 1.1726	1.2143	Ave		1.2203				6.7		30.0			
Chloroethane	0.7026 0.5433	0.6001 0.5424	0.5513 0.5690	0.5520 0.5437	0.5617	Ave		0.5740				9.0		30.0			
Ethanol	+++++ 0.2659	0.3453 0.2586	0.3124 0.2634	0.2894 0.2512	0.2828	Ave		0.2836				11.2		30.0			
Vinyl bromide	1.3578 1.1241	1.1181 1.1425	1.1195 1.1893	1.1506 1.1376	1.1580	Ave		1.1664				6.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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	1.1479 0.8122	1.1326 0.8202	0.8514 0.8489	0.8256 0.8192	0.8315	Ave		0.8988				15.3		30.0			
Trichlorofluoromethane	4.4382 3.9435	4.3772 3.9496	4.0733 3.9971	4.1226 3.5905	4.1540	Ave		4.0718				6.2		30.0			
Acrolein	+++++ 0.2643	+++++ 0.2468	0.3610 0.2538	0.2366 0.2716	0.2288	Ave		0.2661				16.7		30.0			
Acetonitrile	+++++ 0.2356	+++++ 0.2349	0.2762 0.2454	0.2685 0.2794	0.2723	Ave		0.2589				7.6		30.0			
Acetone	+++++ 0.3646	+++++ 0.3287	+++++ 0.3345	0.4727 0.3418	0.4469	Ave		0.3815				16.3		30.0			
Isopropyl alcohol	1.1610 0.9811	1.0954 0.9425	1.0467 0.9643	0.9990 0.9181	1.0150	Ave		1.0137				7.6		30.0			
Pentane	+++++ 0.2087	0.1947 0.2205	0.1966 0.2241	0.2268 0.2201	0.2240	Ave		0.2144				6.0		30.0			
Ethyl ether	0.7120 0.6470	0.7237 0.6150	0.6091 0.6466	0.6651 0.6652	0.6645	Ave		0.6609				5.8		30.0			
1,1-Dichloroethene	1.6061 1.1212	1.2769 1.1476	1.1494 1.1932	1.1788 1.1441	1.1601	Ave		1.2197				12.4		30.0			
t-Butyl alcohol	+++++ 1.6444	1.7865 1.6019	1.6234 1.6901	1.6338 1.6296	1.6406	Ave		1.6563				3.5		30.0			
Acrylonitrile	+++++ 0.4731	0.6551 0.4435	0.5849 0.4756	0.5141 0.4865	0.4913	Ave		0.5155				13.6		30.0			
1,1,2-Trichlorotrifluoroethane	2.8362 2.5588	2.7583 2.5224	2.5712 2.6416	2.6400 2.4959	2.6421	Ave		2.6296				4.2		30.0			
Methylene Chloride	+++++ 1.1787	+++++ 1.1352	1.6026 1.1702	1.3596 1.1034	1.2331	Ave		1.2547				13.9		30.0			
3-Chloropropene	+++++ 0.9853	1.0738 0.9572	1.1596 0.9884	1.0242 0.9404	0.9989	Ave		1.0160				7.0		30.0			
Carbon disulfide	4.0949 3.7456	3.7914 3.7022	3.7035 3.7851	3.7242 3.5054	3.8383	Ave		3.7656				4.1		30.0			
trans-1,2-Dichloroethene	1.4029 1.3159	1.3275 1.2926	1.3062 1.3454	1.3208 1.2832	1.3423	Ave		1.3263				2.7		30.0			
2-Methylpentane	1.9831 1.5725	1.7392 1.5299	1.5822 1.5962	1.5781 1.5302	1.6459	Ave		1.6397				8.8		30.0			
Methyl tert-butyl ether	3.9575 3.8947	4.0383 3.5493	3.7738 3.6697	3.9043 3.7137	4.0120	Ave		3.8348				4.4		30.0			
1,1-Dichloroethane	2.4626 2.1811	2.3851 2.1242	2.1417 2.1824	2.1832 2.1017	2.2548	Ave		2.2241				5.5		30.0			
Vinyl acetate	2.0000 2.0555	2.0649 1.9392	1.8523 2.0741	1.8591 2.1479	2.0915	Ave		2.0094				5.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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-Butanone	+++++ 0.5655	+++++ 0.5049	0.7022 0.5266	0.6402 0.5452	0.5958	Ave		0.5829				11.9		30.0			
Hexane	0.8524 0.7487	0.8308 0.7406	0.7976 0.7626	0.7759 0.7362	0.7868	Ave		0.7813				5.1		30.0			
Isopropyl ether	2.3616 2.4628	2.5671 2.2243	2.3769 2.3238	2.4258 2.4064	2.4910	Ave		2.4044				4.1		30.0			
cis-1,2-Dichloroethene	1.4318 1.3372	1.3207 1.3087	1.2569 1.3782	1.3154 1.3411	1.3596	Ave		1.3388				3.7		30.0			
Ethyl acetate	1.4964 1.6289	1.5908 1.4485	1.5017 1.5390	1.5917 1.6321	1.6484	Ave		1.5642				4.5		30.0			
Chloroform	3.7153 3.2837	3.5111 3.1771	3.3054 3.2572	3.2932 3.1269	3.3412	Ave		3.3346				5.4		30.0			
Tert-butyl ethyl ether	3.0048 3.1040	3.0366 2.8288	2.9609 2.9640	3.0771 3.0370	3.1616	Ave		3.0194				3.2		30.0			
Tetrahydrofuran	0.9102 0.7561	0.8126 0.6985	0.8088 0.7360	0.7531 0.7763	0.7975	Ave		0.7832				7.7		30.0			
1,1,1-Trichloroethane	4.0243 3.7355	3.7611 3.6180	3.6874 3.7256	3.7126 3.5564	3.8164	Ave		3.7375				3.5		30.0			
1,2-Dichloroethane	0.4790 0.4483	0.4856 0.4339	0.4457 0.4601	0.4409 0.4358	0.4576	Ave		0.4541				4.0		30.0			
Cyclohexane	0.1515 0.1306	0.1453 0.1318	0.1287 0.1378	0.1325 0.1271	0.1346	Ave		0.1355				6.0		30.0			
Thiophene	0.5461 0.4864	0.5192 0.4819	0.4777 0.5096	0.4762 0.4678	0.4961	Ave		0.4957				5.1		30.0			
Benzene	0.8970 0.7911	0.9200 0.7676	0.8384 0.8048	0.8008 0.7455	0.8132	Ave		0.8198				7.0		30.0			
1-Butanol	+++++ 0.0466	+++++ 0.0516	0.0443 0.0581	0.0444 0.0548	0.0447	Ave		0.0492				11.4		30.0			
Carbon tetrachloride	0.8657 0.7919	0.7822 0.7866	0.7695 0.8222	0.7583 0.7416	0.8059	Ave		0.7915				4.7		30.0			
2,3-Dimethylpentane	0.2273 0.1833	0.1968 0.1838	0.1789 0.1962	0.1799 0.1845	0.1880	Ave		0.1910				7.9		30.0			
Tert-amyl methyl ether	+++++ 0.8337	0.8523 0.7732	0.7836 0.7890	0.8141 0.7903	0.8349	Ave		0.8089				3.6		30.0			
2,2,4-Trimethylpentane	1.0554 0.9279	1.0026 0.9273	0.9262 0.9709	0.9194 0.9004	0.9451	Ave		0.9528				5.1		30.0			
Heptane	0.3172 0.2819	0.3138 0.2831	0.2758 0.3010	0.2790 0.2847	0.2875	Ave		0.2915				5.3		30.0			
1,2-Dichloropropane	0.2486 0.2434	0.2426 0.2406	0.2354 0.2524	0.2465 0.2458	0.2497	Ave		0.2450				2.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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								
Trichloroethene	0.3831 0.3496	0.3612 0.3524	0.3506 0.3716	0.3507 0.3526	0.3534	Ave		0.3584				3.2		30.0			
Dibromomethane	0.3895 0.3488	0.3548 0.3502	0.3437 0.3760	0.3493 0.3515	0.3537	Ave		0.3575				4.2		30.0			
Bromodichloromethane	0.6876 0.7092	0.6820 0.7181	0.6338 0.7599	0.6565 0.7102	0.7003	Ave		0.6953				5.2		30.0			
1,4-Dioxane	0.1134 0.1167	0.1165 0.1135	0.1068 0.1182	0.1121 0.1128	0.1124	Ave		0.1136				2.9		30.0			
Methyl methacrylate	0.2349 0.2258	0.2152 0.2091	0.1911 0.2310	0.2016 0.2387	0.2192	Ave		0.2185				7.3		30.0			
Methylcyclohexane	0.6839 0.6057	0.6462 0.6082	0.6222 0.6398	0.6089 0.5919	0.6149	Ave		0.6246				4.5		30.0			
4-Methyl-2-pentanone (MIBK)	0.3053 0.3355	0.3361 0.3148	0.3293 0.3281	0.3077 0.3265	0.3094	Ave		0.3214				3.8		30.0			
cis-1,3-Dichloropropene	0.4998 0.5003	0.5023 0.4903	0.4561 0.5342	0.4739 0.5081	0.4988	Ave		0.4960				4.4		30.0			
trans-1,3-Dichloropropene	0.4914 0.5214	0.4748 0.5218	0.4611 0.5383	0.4890 0.5321	0.5226	Ave		0.5058				5.4		30.0			
Toluene	0.9766 0.9594	1.0176 0.9449	0.9476 0.9460	0.9583 0.9034	0.9806	Ave		0.9594				3.3		30.0			
Toluene Range	+++++ 2.1610	+++++ 2.1067	+++++ 2.2258	2.1476 2.1474	2.1929	Ave		2.1636				1.9		30.0			
1,1,2-Trichloroethane	0.3300 0.2929	0.2767 0.2924	0.2838 0.2957	0.2910 0.2893	0.2994	Ave		0.2946				5.0		30.0			
2-Methylthiophene	0.7657 0.8226	0.8196 0.8088	0.7388 0.8146	0.8029 0.7812	0.8212	Ave		0.7973				3.7		30.0			
3-Methylthiophene	0.8030 0.8012	0.7780 0.7876	0.7275 0.7914	0.7862 0.7560	0.8049	Ave		0.7817				3.2		30.0			
2-Hexanone	0.1595 0.2019	0.1745 0.1941	0.1753 0.2038	0.1822 0.2005	0.1889	Ave		0.1867				8.1		30.0			
C8 Range	+++++ 2.1384	+++++ 2.1481	+++++ 2.3006	2.1075 2.1399	2.1652	Ave		2.1666				3.2		30.0			
Octane	0.3310 0.3331	0.3114 0.3369	0.3283 0.3417	0.3189 0.3245	0.3362	Ave		0.3291				2.9		30.0			
Dibromochloromethane	0.5712 0.6639	0.5458 0.6857	0.5338 0.6997	0.5697 0.6658	0.6418	Ave		0.6197				10.4		30.0			
1,2-Dibromoethane	0.4965 0.5469	0.5070 0.5479	0.4793 0.5615	0.5003 0.5495	0.5463	Ave		0.5261				5.7		30.0			
Tetrachloroethene	0.4066 0.3677	0.3888 0.3723	0.3618 0.3736	0.3587 0.3543	0.3750	Ave		0.3732				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 BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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								
Chlorobenzene	0.7425 0.7407	0.7927 0.7373	0.7231 0.7391	0.7336 0.7067	0.7596	Ave		0.7417				3.2		30.0			
2,3-Dimethylheptane	0.5774 0.5018	0.5129 0.5040	0.4885 0.5084	0.4991 0.4810	0.5194	Ave		0.5103				5.4		30.0			
Ethylbenzene	1.3116 1.3250	1.3170 1.2797	1.2522 1.2689	1.3026 1.1715	1.3582	Ave		1.2874				4.2		30.0			
2-Ethylthiophene	0.9508 1.0642	0.9800 1.0263	0.9670 1.0320	1.0183 0.9646	1.0585	Ave		1.0069				4.2		30.0			
m-Xylene & p-Xylene	1.0091 1.0449	1.0514 0.9898	1.0051 0.9652	1.0380 0.8619	1.0698	Ave		1.0039				6.2		30.0			
Bromoform	0.4665 0.6788	0.4714 0.7141	0.4848 0.7355	0.5142 0.7301	0.6370	Ave		0.6036				19.5		30.0			
Nonane	0.4068 0.4453	0.4304 0.4404	0.4208 0.4413	0.4243 0.4148	0.4520	Ave		0.4307				3.5		30.0			
Styrene	0.4854 0.7309	0.5335 0.7249	0.5540 0.7396	0.6151 0.7240	0.7148	Ave		0.6469				15.5		30.0			
o-Xylene	1.0306 1.0916	1.0733 1.0454	1.0439 1.0464	1.0590 0.9731	1.1194	Ave		1.0536				3.9		30.0			
1,1,2,2-Tetrachloroethane	0.6519 0.7180	0.6386 0.6827	0.6053 0.6939	0.6589 0.6749	0.7077	Ave		0.6702				5.3		30.0			
1,2,3-Trichloropropane	0.2218 0.2486	0.2596 0.2363	0.2181 0.2415	0.2397 0.2413	0.2537	Ave		0.2401				5.7		30.0			
Isopropylbenzene	1.4950 1.4420	1.4520 1.3678	1.3821 1.3616	1.4265 1.2520	1.4743	Ave		1.4059				5.3		30.0			
Propylbenzene	0.3065 0.3848	0.3515 0.3661	0.3446 0.3759	0.3623 0.3736	0.3887	Ave		0.3616				7.0		30.0			
2-Chlorotoluene	0.3072 0.3377	0.3097 0.3299	0.3272 0.3344	0.3303 0.3276	0.3444	Ave		0.3276				3.7		30.0			
4-Ethyltoluene	1.1452 1.4354	1.2792 1.3460	1.2293 1.3430	1.3293 1.2537	1.4459	Ave		1.3119				7.4		30.0			
1,3,5-Trimethylbenzene	0.5768 0.6460	0.5753 0.6150	0.5787 0.6238	0.6121 0.6151	0.6540	Ave		0.6108				4.8		30.0			
Alpha Methyl Styrene	+++++ 0.5448	0.3553 0.5477	0.3574 0.5690	0.4266 0.5700	0.5167	Ave		0.4859				18.9		30.0			
Decane	0.4300 0.5407	0.4763 0.5184	0.4677 0.5202	0.5089 0.4981	0.5574	Ave		0.5020				7.8		30.0			
tert-Butylbenzene	1.1600 1.2851	1.1830 1.1915	1.1778 1.1803	1.2476 1.1142	1.3025	Ave		1.2047				5.1		30.0			
1,2,4-Trimethylbenzene	0.9850 1.2251	1.1579 1.1445	1.0835 1.1296	1.1416 1.0623	1.2477	Ave		1.1308				7.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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								
sec-Butylbenzene	1.4708 1.6845	1.5862 1.5600	1.5420 1.5232	1.6267 1.3697	1.7222	Ave		1.5650				6.9		30.0			
1,3-Dichlorobenzene	0.5770 0.7433	0.6505 0.7187	0.6301 0.7363	0.6674 0.7185	0.7372	Ave		0.6866				8.5		30.0			
Benzyl chloride	0.6683 1.0445	0.7827 1.0301	0.7315 1.0696	0.8636 1.0280	1.0045	Ave		0.9136				16.8		30.0			
1,4-Dichlorobenzene	0.5250 0.7290	0.6241 0.7118	0.6114 0.7308	0.6428 0.7191	0.7114	Ave		0.6673				10.6		30.0			
4-Isopropyltoluene	1.0670 1.4358	1.2691 1.3250	1.2331 1.2955	1.3495 1.2050	1.4510	Ave		1.2923				9.2		30.0			
1,2,3-Trimethylbenzene	0.7475 0.9204	0.8258 0.8631	0.8282 0.8563	0.8773 0.8263	0.9400	Ave		0.8539				6.7		30.0			
Butylcyclohexane	0.8296 0.8902	0.8670 0.8538	0.8446 0.8366	0.8763 0.7831	0.9198	Ave		0.8557				4.6		30.0			
1,2-Dichlorobenzene	0.5702 0.7217	0.6701 0.6913	0.6138 0.6966	0.6636 0.6824	0.7165	Ave		0.6696				7.3		30.0			
Indane	0.8612 1.0321	0.9219 0.9803	0.9010 0.9727	0.9535 0.9178	1.0432	Ave		0.9538				6.3		30.0			
Indene	+++++ 0.7757	+++++ 0.7471	0.5856 0.7641	0.6381 0.7513	0.7518	Ave		0.7162				10.3		30.0			
Butylbenzene	0.9198 1.3753	1.1072 1.2509	1.0880 1.2201	1.2074 1.1300	1.3864	Ave		1.1872				12.3		30.0			
Undecane	+++++ 0.5664	+++++ 0.5328	0.3653 0.5287	0.4303 0.5173	0.5506	Ave		0.4988				14.7		30.0			
1,2-Dimethyl-4-Ethylbenzene	+++++ 1.0200	0.7967 0.9342	0.8237 0.9271	0.8688 0.8894	1.0244	Ave		0.9105				9.1		30.0			
1,2-Dibromo-3-Chloropropane	0.1841 0.3242	0.2059 0.3179	0.1915 0.3279	0.2272 0.3525	0.2887	Ave		0.2689				24.7		30.0			
1,2,4,5-Tetramethylbenzene	+++++ 1.1981	0.8890 1.1084	0.8822 1.0701	0.9402 1.0184	1.1658	Ave		1.0340				11.8		30.0			
1,2,3,5-Tetramethylbenzene	+++++ 0.7335	0.5072 0.6849	0.5426 0.6639	0.5773 0.6590	0.7030	Ave		0.6339				12.8		30.0			
1,2,3,4-Tetramethylbenzene	+++++ 0.9474	0.6115 0.9034	0.6526 0.8692	0.6782 0.8355	0.8860	Ave		0.7980				16.3		30.0			
Dodecane	+++++ 0.2974	+++++ 0.3690	0.2437 0.3623	0.1858 0.3793	0.2608	Ave		0.2998				24.6		30.0			
1,2,4-Trichlorobenzene	0.3611 0.5045	0.3568 0.5742	0.3453 0.5814	0.3051 0.5964	0.4153	Ave		0.4489				25.7		30.0			
Naphthalene	0.6056 0.9630	0.6781 1.1134	0.5939 1.1208	0.5435 1.0727	0.7703	Ave		0.8290				28.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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								
Benzo(b)thiophene	0.3999 0.4398	0.4206 0.5731	0.3275 0.5950	0.2908 0.5982	0.3678	Ave		0.4459				26.1		30.0			
Hexachlorobutadiene	0.5442 0.7246	0.5863 0.6982	0.6210 0.6596	0.5728 0.6511	0.7133	Ave		0.6412				10.1		30.0			
1,2,3-Trichlorobenzene	0.3237 0.3674	0.3270 0.4807	0.3039 0.4929	0.2348 0.4849	0.3122	Ave		0.3697				25.4		30.0			
2-Methylnaphthalene	0.1687 0.1736	0.1906 0.2142	0.1910 0.2092	0.0971 0.1277	0.1610	Ave		0.1703				22.3		50.0			
1-Methylnaphthalene	0.1531 0.1471	0.1587 0.1786	0.1700 0.1721	0.0735 0.0995	0.1416	Ave		0.1438				24.5		50.0			
4-Bromofluorobenzene (Surr)	0.8114 0.8239	0.8130 0.8129	0.8120 0.8309	0.8304 0.8100	0.8219	Ave		0.8185				1.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-6379/3	EH23IC01A.D
Level 2	IC 140-6379/4	EH23IC02A.D
Level 3	IC 140-6379/5	EH23IC03A.D
Level 4	IC 140-6379/6	EH23IC04.D
Level 5	IC 140-6379/7	EH23IC05.D
Level 6	ICIS 140-6379/8	EH23IC06.D
Level 7	IC 140-6379/9	EH23IC07.D
Level 8	IC 140-6379/10	EH23IC08.D
Level 9	IC 140-6379/11	EH23IC09.D

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
Chlorodifluoromethane	CBM	Ave	+++++ 61822	2928 122753	4908 242433	12124 469686	31671	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 84095	3566 164168	7544 334314	17666 649043	43114	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	12814 570285	23179 1065086	44567 2073013	113130 3746080	285347	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	835 31364	1895 61884	3298 122595	6795 240332	16758	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorotetrafluoroethane	CBM	Ave	6689 301658	12333 536115	23446 1128953	61020 2114275	151194	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 160626	+++++ 298221	+++++ 603191	41149 1228060	102442	+++++ 9.99	+++++ 20.0	+++++ 40.0	2.00 80.0	5.01
Vinyl chloride	CBM	Ave	3272 140638	5569 280576	11211 570655	27219 1097667	71324	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butane	CBM	Ave	3804 149120	6398 297557	11924 603481	30014 1194649	75855	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	2032 86814	3861 174350	6758 358281	17338 711110	44842	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	+++++ 156847	7330 316269	12380 637838	31392 1260571	80807	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	1871 73166	3106 144362	5751 294933	14567 584496	37379	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 179028	8936 344174	16292 682822	38188 1350335	94084	+++++ 9.99	0.392 20.0	0.793 40.0	2.00 80.0	5.01
Vinyl bromide	CBM	Ave	3616 151363	5787 304097	11678 616492	30365 1222946	77061	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	3057 109370	5862 218301	8881 440024	21789 880719	55332	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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
Trichlorofluoromethane	CBM	Ave	11819 531022	22656 1051244	42491 2071990	108799 3859984	276442	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	+++++ 35585	+++++ 65676	3766 131570	6243 291990	15226	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	+++++ 31720	+++++ 62514	2881 127213	7085 300347	18124	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	+++++ 147307	+++++ 262456	+++++ 520254	37431 1102505	89220	+++++ 5.99	+++++ 12.0	+++++ 24.0	1.20 48.0	3.01
Isopropyl alcohol	CBM	Ave	9276 396373	17011 752605	32758 1499717	79096 2961253	202651	0.118 5.99	0.235 12.0	0.476 24.0	1.20 48.0	3.01
Pentane	CBM	Ave	+++++ 28100	1008 58677	2051 116174	5985 236638	14910	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	1896 87130	3746 163685	6354 335199	17552 715101	44219	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	4277 150972	6609 305462	11990 618548	31108 1230023	77206	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
t-Butyl alcohol	CBM	Ave	+++++ 221435	9247 426365	16935 876118	43118 1751968	109176	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	+++++ 63707	3391 118033	6101 246559	13567 523026	32693	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2-Trichlorotrifluoroethane	CBM	Ave	7553 344561	14277 671371	26822 1369350	69670 2683210	175826	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	+++++ 158716	+++++ 302156	16718 606626	35881 1186247	82064	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	+++++ 132672	5558 254777	12096 512353	27029 1010942	66473	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	10905 504376	19624 985401	38633 1962117	98285 3768546	255435	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	3736 177199	6871 344048	13626 697415	34857 1379488	89328	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	5281 211749	9002 407193	16505 827410	41648 1645031	109529	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	10539 524448	20902 944686	39367 1902290	103036 3992522	266995	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	6558 293707	12345 565390	22341 1131279	57616 2259461	150055	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	5326 276789	10688 516154	19323 1075172	49063 2309147	139184	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Butanone	CBM	Ave	+++++ 76143	+++++ 134374	7325 272986	16894 586143	39647	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	2270 100815	4300 197120	8320 395291	20477 791459	52363	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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
Isopropyl ether	CBM	Ave	6289 331632	13287 592024	24795 1204622	64018 2587020	165774	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3813 180059	6836 348332	13111 714434	34713 1441790	90478	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	3985 219344	8234 385530	15665 797761	42005 1754653	109695	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9894 442178	18173 845620	34481 1688433	86910 3361601	222354	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-butyl ethyl ether	CBM	Ave	8002 417978	15717 752929	30887 1536459	81207 3265007	210400	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	2424 101819	4206 185923	8437 381534	19875 834578	53071	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	10717 503011	19467 962972	38466 1931274	97977 3823404	253978	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFBZ	Ave	5982 288122	11809 537769	21847 1083476	55807 2199272	145593	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Cyclohexane	DFBZ	Ave	1892 83943	3534 163307	6309 324420	16775 641188	42831	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Thiophene	DFBZ	Ave	6819 312594	12627 597290	23414 1200122	60273 2360523	157834	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzene	DFBZ	Ave	11202 508450	22374 951416	41095 1895126	101363 3761648	258726	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1-Butanol	DFBZ	Ave	+++++ 29976	+++++ 63903	2173 136710	5619 276402	14208	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFBZ	Ave	10810 508933	19024 974957	37717 1936171	95982 3741835	256403	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFBZ	Ave	2838 117785	4787 227817	8770 461939	22772 931179	59803	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-amyl methyl ether	CBZd5	Ave	+++++ 504302	19478 895818	36281 1820156	96249 3872410	248836	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFBZ	Ave	13180 596371	24385 1149309	45400 2286361	116372 4543372	300690	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Heptane	DFBZ	Ave	3961 181150	7633 350840	13516 708768	35307 1436461	91476	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFBZ	Ave	3104 156418	5901 298142	11537 594381	31204 1240155	79431	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Trichloroethene	DFBZ	Ave	4784 224706	8785 436756	17186 875136	44392 1779192	112424	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromomethane	DFBZ	Ave	4864 224186	8628 434049	16846 885348	44214 1773527	112531	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromodichloromethane	DFBZ	Ave	8587 455767	16586 890002	31068 1789431	83097 3583453	222787	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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
1,4-Dioxane	DFBZ	Ave	1416 75001	2833 140622	5236 278394	14190 569065	35770	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl methacrylate	DFBZ	Ave	2933 145099	5235 259190	9366 543935	25512 1204588	69730	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylcyclohexane	DFBZ	Ave	8540 389263	15716 753857	30495 1506790	77063 2986759	195638	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	3813 215605	8173 390128	16142 772677	38946 1647426	98443	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFBZ	Ave	6241 321547	12216 607644	22355 1257896	59979 2563611	158688	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZd 5	Ave	5692 315429	10851 604586	21349 1241706	57807 2606992	155761	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene	CBZd 5	Ave	11312 580354	23255 1094823	43873 2182437	113294 4426217	292256	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene Range	DFBZ	Ave	+++++ 1388876	+++++ 2611091	+++++ 5241600	271821 10835824	697680	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZd 5	Ave	3822 177178	6323 338754	13139 682266	34398 1417572	89240	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZd 5	Ave	8869 497602	18731 937085	34204 1879129	94924 3827830	244758	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZd 5	Ave	9301 484667	17780 912530	33682 1825649	92948 3704338	239879	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Hexanone	CBZd 5	Ave	1847 122120	3989 224945	8116 470040	21539 982468	56286	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
C8 Range	DFBZ	Ave	+++++ 1374344	+++++ 2662409	+++++ 5417670	266745 10797608	688848	+++++ 2.00	+++++ 4.00	+++++ 8.00	0.400 16.0	1.00
Octane	CBZd 5	Ave	3834 201515	7117 390371	15198 788319	37708 1590022	100195	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZd 5	Ave	6616 401579	12474 794467	24716 1614046	67349 3262185	191276	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromoethane	CBZd 5	Ave	5751 330814	11586 634861	22191 1295383	59149 2692354	162823	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZd 5	Ave	4710 222437	8885 431359	16751 861861	42406 1736176	111764	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chlorobenzene	CBZd 5	Ave	8601 448078	18115 854251	33481 1705133	86732 3462502	226397	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZd 5	Ave	6688 303525	11722 583942	22617 1172837	59008 2356966	154795	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethylbenzene	CBZd 5	Ave	15193 801501	30099 1482682	57978 2927336	154002 5740123	404807	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZd 5	Ave	11013 643748	22396 1189105	44774 2380715	120392 4726350	315480	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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
m-Xylene & p-Xylene	CBZd 5	Ave	23377 1264106	48055 2293730	93076 4453513	245430 8445950	637658	0.0784 3.99	0.157 8.00	0.317 16.0	0.800 32.0	2.00
Bromoform	CBZd 5	Ave	5404 410628	10774 827421	22445 1696654	60792 3577134	189843	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Nonane	CBZd 5	Ave	4712 269364	9836 510303	19483 1018016	50166 2032588	134711	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Styrene	CBZd 5	Ave	5622 442128	12193 839948	25652 1706172	72725 3547238	213035	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
o-Xylene	CBZd 5	Ave	11938 660323	24528 1211234	48334 2413900	125205 4767807	333631	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	7551 434322	14594 791030	28026 1600723	77899 3306686	210910	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZd 5	Ave	2569 150393	5933 273751	10099 557217	28342 1182507	75599	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZd 5	Ave	17317 872303	33182 1584733	63990 3141082	168653 6134373	439412	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propylbenzene	CBZd 5	Ave	3550 232788	8033 424172	15956 867100	42831 1830699	115851	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZd 5	Ave	3558 204257	7078 382213	15148 771336	39045 1605221	102641	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZd 5	Ave	13265 868312	29234 1559536	56915 3098109	157161 6142846	430948	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZd 5	Ave	6681 390767	13148 712511	26795 1439108	72362 3013892	194923	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZd 5	Ave	+++++ 329584	8119 634614	16546 1312588	50440 2792870	153984	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Decane	CBZd 5	Ave	4981 327049	10886 600636	21656 1200057	60168 2440593	166121	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZd 5	Ave	13437 777364	27036 1380562	54531 2722919	147503 5459193	388192	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZd 5	Ave	11410 741071	26463 1326106	50168 2605971	134962 5205042	371867	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZd 5	Ave	17037 1018995	36249 1807431	71394 3513808	192323 6710905	513295	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZd 5	Ave	6684 449629	14866 832738	29174 1698531	78900 3520402	219701	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzyl chloride	CBZd 5	Ave	7741 631803	17888 1193451	33870 2467506	102099 5037033	299387	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZd 5	Ave	6081 440987	14262 824733	28310 1686002	76000 3523407	212012	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZd 5	Ave	12359 868508	29003 1535240	57090 2988630	159549 5904118	432443	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

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
1,2,3-Trimethylbenzene	CBZd 5	Ave	8659 556747	18872 999985	38345 1975362	103719 4048474	280160	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZd 5	Ave	9610 538465	19815 989255	39107 1929931	103599 3837052	274151	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZd 5	Ave	6605 436557	15315 800951	28420 1607098	78457 3343640	213558	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indane	CBZd 5	Ave	9976 624298	21069 1135862	41715 2244014	112724 4497011	310919	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indene	CBZd 5	Ave	+++++ 469235	+++++ 865612	27114 1762740	75444 3680888	224053	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
Butylbenzene	CBZd 5	Ave	10654 831941	25304 1449313	50373 2814718	142744 5536359	413197	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Undecane	CBZd 5	Ave	+++++ 342623	+++++ 617284	16912 1219733	50871 2534545	164093	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZd 5	Ave	+++++ 616989	18208 1082391	38137 2138720	102719 4357916	305314	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromo-3-Chloropropane	CBZd 5	Ave	2132 196098	4706 368272	8867 756511	26856 1727184	86056	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZd 5	Ave	+++++ 724740	20317 1284194	40848 2468612	111155 4989637	347469	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZd 5	Ave	+++++ 443730	11592 793534	25123 1531519	68246 3228944	209526	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZd 5	Ave	+++++ 573073	13974 1046682	30214 2005252	80186 4093587	264067	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dodecane	CBZd 5	Ave	+++++ 179885	+++++ 427564	11284 835790	21967 1858569	77719	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZd 5	Ave	4183 305159	8155 665315	15989 1341362	36073 2922266	123778	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Naphthalene	CBZd 5	Ave	7015 582551	15496 1290008	27498 2585522	64256 5255646	229592	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZd 5	Ave	4632 266068	9611 663992	15165 1372667	34379 2930895	109620	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZd 5	Ave	6304 438302	13399 808993	28753 1521596	67724 3190142	212592	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZd 5	Ave	3749 222221	7473 556933	14072 1137089	27762 2375998	93044	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZd 5	Ave	6105 328115	13609 775394	27638 1508159	35887 1955688	149931	0.122 6.24	0.245 12.5	0.496 25.0	1.25 50.0	3.13
1-Methylnaphthalene	CBZd 5	Ave	5543 277982	11330 646523	24598 1240578	27147 1523739	131902	0.122 6.24	0.245 12.5	0.496 25.0	1.25 50.0	3.13
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	959094 998139	947995 941828	947828 958423	981774 992236	978264	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1 Analy Batch No.: 6379

SDG No.:

Instrument ID: ME GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/23/2016 17:03 Calibration End Date: 08/23/2016 23:02 Calibration ID: 750

Curve Type Legend:
Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC01A.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Aug-2016 17:03:30 ALS Bottle#: 7 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052175
Misc. Info.: 140-0003339-002
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:22 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 13:24:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.576	-0.008	71	271739	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.819	-0.008	94	1274248	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1181962	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.492	-0.005	89	959094	4.00	3.97	
6 Chlorodifluoromethane	67	2.898	2.900	-0.002	94	1666	0.0392	0.0517	
7 Propene	41	2.903	2.909	-0.006	68	2999	0.0392	0.0677	
8 Dichlorodifluoromethane	85	2.946	2.952	-0.006	98	12814	0.0392	0.0448	
9 Chloromethane	52	3.097	3.102	-0.005	48	835	0.0392	0.0455	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.110	-0.002	94	6689	0.0392	0.0440	
11 Acetaldehyde	44	3.227	3.232	-0.005	88	7746	0.1960	0.4432	
12 Vinyl chloride	62	3.243	3.244	-0.001	97	3272	0.0392	0.0447	
13 Butane	43	3.313	3.317	-0.004	83	3804	0.0392	0.0476	
14 Butadiene	54	3.319	3.317	0.002	70	2032	0.0392	0.0438	
15 Bromomethane	94	3.577	3.583	-0.006	97	4370	0.0392	0.0527	
16 Chloroethane	64	3.696	3.700	-0.004	96	1871	0.0392	0.0480	
17 Ethanol	31	3.777	3.786	-0.009	97	5294	0.1960	0.2748	
18 Vinyl bromide	106	3.944	3.950	-0.006	96	3616	0.0392	0.0456	
19 2-Methylbutane	43	3.987	3.990	-0.003	83	3057	0.0392	0.0501	
20 Trichlorofluoromethane	101	4.165	4.173	-0.008	99	11819	0.0392	0.0427	
21 Acrolein	56	4.181	4.186	-0.005	26	3035	0.0392	0.1679	
23 Acetone	58	4.284	4.283	0.001	99	6401	0.1176	0.2470	
24 Isopropyl alcohol	45	4.359	4.361	-0.002	81	9276	0.1176	0.1347	
25 Pentane	72	4.359	4.362	-0.003	72	471	0.0392	0.0323	
26 Ethyl ether	31	4.510	4.510	0.000	86	1896	0.0392	0.0422	
27 1,1-Dichloroethene	96	4.785	4.790	-0.005	97	4277	0.0392	0.0516	
29 Acrylonitrile	53	4.882	4.891	-0.009	70	2934	0.0392	0.0838	
28 2-Methyl-2-propanol	59	4.899	4.892	0.007	89	4373	0.0392	0.0389	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.950	-0.003	93	7553	0.0392	0.0423	
31 Methylene Chloride	84	5.103	5.112	-0.009	76	8187	0.0392	0.0960	
32 3-Chloro-1-propene	39	5.120	5.126	-0.006	85	3582	0.0392	0.0519	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	5.244	5.255	-0.011	97	10905	0.0392	0.0426	
34 trans-1,2-Dichloroethene	96	5.869	5.877	-0.008	95	3736	0.0392	0.0415	
35 2-Methylpentane	43	5.891	5.895	-0.004	83	5281	0.0392	0.0474	
36 Methyl tert-butyl ether	73	6.020	6.013	0.007	93	10539	0.0392	0.0405	
37 1,1-Dichloroethane	63	6.279	6.286	-0.007	97	6558	0.0392	0.0434	
38 Vinyl acetate	43	6.398	6.401	-0.003	98	5326	0.0392	0.0390	
39 2-Butanone (MEK)	72	6.851	6.843	0.008	85	1962	0.0392	0.0495	
40 Hexane	56	6.851	6.852	-0.001	74	2270	0.0392	0.0428	
41 Isopropyl ether	45	7.034	7.025	0.009	86	6289	0.0392	0.0385	
42 cis-1,2-Dichloroethene	96	7.239	7.249	-0.010	88	3813	0.0392	0.0419	
43 Ethyl acetate	43	7.460	7.459	0.001	77	3985	0.0392	0.0375	
44 Chloroform	83	7.584	7.592	-0.008	88	9894	0.0392	0.0437	
45 Tert-butyl ethyl ether	59	7.708	7.698	0.010	91	8002	0.0392	0.0390	
46 Tetrahydrofuran	42	8.021	8.001	0.020	61	2424	0.0392	0.0456	
47 1,1,1-Trichloroethane	97	8.603	8.603	0.000	94	10717	0.0392	0.0422	
48 1,2-Dichloroethane	62	8.711	8.721	-0.010	97	5982	0.0392	0.0414	
50 Cyclohexane	69	9.196	9.202	-0.006	57	1892	0.0392	0.0438	
54 Thiophene	84	9.202	9.207	-0.005	51	6819	0.0392	0.0432	
51 Benzene	78	9.202	9.209	-0.007	95	11202	0.0392	0.0429	
52 Carbon tetrachloride	117	9.223	9.230	-0.007	96	10810	0.0392	0.0429	
53 2,3-Dimethylpentane	71	9.342	9.349	-0.007	82	2838	0.0392	0.0467	
55 Tert-amyl methyl ether	73	9.762	9.751	0.011	48	6702	0.0392	0.0280	
56 Isooctane	57	10.048	10.049	-0.001	96	13180	0.0392	0.0434	
57 n-Heptane	71	10.480	10.480	0.000	78	3961	0.0392	0.0426	
58 1,2-Dichloropropane	63	10.550	10.551	-0.001	81	3104	0.0392	0.0398	
59 Trichloroethene	130	10.582	10.590	-0.008	93	4784	0.0392	0.0419	
60 Dibromomethane	93	10.668	10.677	-0.009	94	4864	0.0392	0.0427	
61 Dichlorobromomethane	83	10.841	10.843	-0.002	94	8587	0.0392	0.0388	
62 1,4-Dioxane	88	10.900	10.884	0.016	30	1416	0.0392	0.0391	
63 Methyl methacrylate	41	10.987	10.985	0.002	78	2933	0.0392	0.0421	
64 Methylcyclohexane	83	11.413	11.414	-0.001	90	8540	0.0392	0.0429	
65 4-Methyl-2-pentanone (MIBK	43	11.898	11.896	0.002	85	3813	0.0392	0.0372	
66 cis-1,3-Dichloropropene	75	11.930	11.934	-0.004	92	6241	0.0392	0.0395	
67 trans-1,3-Dichloropropene	75	12.669	12.676	-0.007	92	5692	0.0392	0.0381	
68 Toluene	91	12.777	12.783	-0.006	95	11312	0.0392	0.0399	
69 1,1,2-Trichloroethane	83	12.868	12.875	-0.007	97	3822	0.0392	0.0439	
70 2-Methylthiophene	97	12.939	12.942	-0.003	96	8869	0.0392	0.0376	
71 3-Methylthiophene	97	13.149	13.152	-0.003	96	9301	0.0392	0.0403	
72 2-Hexanone	58	13.311	13.303	0.008	94	1847	0.0392	0.0335	
73 n-Octane	85	13.532	13.533	-0.001	75	3834	0.0392	0.0394	
74 Chlorodibromomethane	129	13.586	13.589	-0.003	96	6616	0.0392	0.0361	
75 Ethylene Dibromide	107	13.888	13.888	0.000	99	5751	0.0392	0.0370	
76 Tetrachloroethene	129	13.969	13.966	0.002	76	4710	0.0392	0.0427	
77 Chlorobenzene	112	14.864	14.865	-0.001	87	8601	0.0392	0.0392	
78 2,3-Dimethylheptane	43	14.912	14.914	-0.002	78	6688	0.0392	0.0444	
79 Ethylbenzene	91	15.166	15.168	-0.002	98	15193	0.0392	0.0399	
80 2-Ethylthiophene	97	15.268	15.272	-0.004	97	11013	0.0392	0.0370	
81 m-Xylene & p-Xylene	91	15.338	15.337	0.001	98	23377	0.0784	0.0788	
83 Bromoform	173	15.775	15.776	-0.001	91	5404	0.0392	0.0303	
82 n-Nonane	57	15.786	15.790	-0.004	76	4712	0.0392	0.0370	
84 Styrene	104	15.802	15.807	-0.005	94	5622	0.0392	0.0294	
85 o-Xylene	91	15.861	15.867	-0.006	97	11938	0.0392	0.0383	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,1,2,2-Tetrachloroethane	83	16.201	16.202	-0.001	97	7551	0.0392	0.0381	
87 1,2,3-Trichloropropane	110	16.363	16.362	0.001	96	2569	0.0392	0.0362	
88 Isopropylbenzene	105	16.465	16.466	-0.001	96	17317	0.0392	0.0417	
89 N-Propylbenzene	120	17.021	17.021	0.000	99	3550	0.0392	0.0332	
90 2-Chlorotoluene	126	17.053	17.054	-0.001	95	3558	0.0392	0.0368	
91 4-Ethyltoluene	105	17.177	17.181	-0.004	96	13265	0.0392	0.0342	
92 1,3,5-Trimethylbenzene	120	17.258	17.262	-0.004	92	6681	0.0392	0.0370	
93 Alpha Methyl Styrene	118	17.506	17.511	-0.005	84	3776	0.0392	0.0263	
94 n-Decane	57	17.598	17.599	-0.001	91	4981	0.0392	0.0336	
95 tert-Butylbenzene	119	17.722	17.721	0.001	89	13437	0.0392	0.0377	
96 1,2,4-Trimethylbenzene	105	17.732	17.735	-0.003	95	11410	0.0392	0.0341	
97 sec-Butylbenzene	105	18.013	18.013	0.000	97	17037	0.0392	0.0368	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	70	6684	0.0392	0.0329	
99 Benzyl chloride	91	18.099	18.104	-0.005	95	7741	0.0392	0.0287	
100 1,4-Dichlorobenzene	146	18.110	18.112	-0.002	86	6081	0.0392	0.0308	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	12359	0.0392	0.0324	
102 1,2,3-Trimethylbenzene	105	18.239	18.240	-0.001	98	8659	0.0392	0.0343	
103 Butylcyclohexane	83	18.304	18.305	-0.001	96	9610	0.0392	0.0380	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	78	6605	0.0392	0.0334	
105 2,3-Dihydroindene	117	18.493	18.495	-0.002	91	9976	0.0392	0.0354	
106 Indene	116	18.628	18.632	-0.004	90	5599	0.0392	0.0265	
107 n-Butylbenzene	91	18.649	18.652	-0.003	98	10654	0.0392	0.0304	
108 Undecane	57	19.000	19.000	0.000	81	3155	0.0392	0.0214	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	94	7116	0.0392	0.0264	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	93	2132	0.0392	0.0268	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	6732	0.0392	0.0220	
112 1,2,3,5-Tetramethylbenzene	119	19.501	19.498	0.003	93	4390	0.0392	0.0234	
113 1,2,3,4-Tetramethylbenzene	119	19.889	19.895	-0.006	94	5802	0.0392	0.0246	
114 Dodecane	57	20.078	20.078	0.000	87	2435	0.0392	0.0275	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	90	4183	0.0392	0.0315	
116 Naphthalene	128	20.353	20.357	-0.004	98	7015	0.0392	0.0286	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	98	4632	0.0392	0.0352	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	94	6304	0.0392	0.0333	
119 1,2,3-Trichlorobenzene	180	20.628	20.631	-0.003	90	3749	0.0392	0.0343	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	96	6105	0.1225	0.1213	
121 1-Methylnaphthalene	142	21.663	21.664	-0.001	95	5543	0.1225	0.1305	
A 124 Toluene Range	1	12.777	(12.747-12.807)		0	29309	0.0392	0.0425	
A 125 C8 Range	1	13.532	(13.502-13.562)		0	25359	0.0392	0.0367	
S 126 Xylenes, Total	100				0		0.1176	0.1171	
S 127 1,2-Dichloroethene, Total	1				0		0.0784	0.0834	

Reagents:

40L12DNP_00006	Amount Added: 100.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

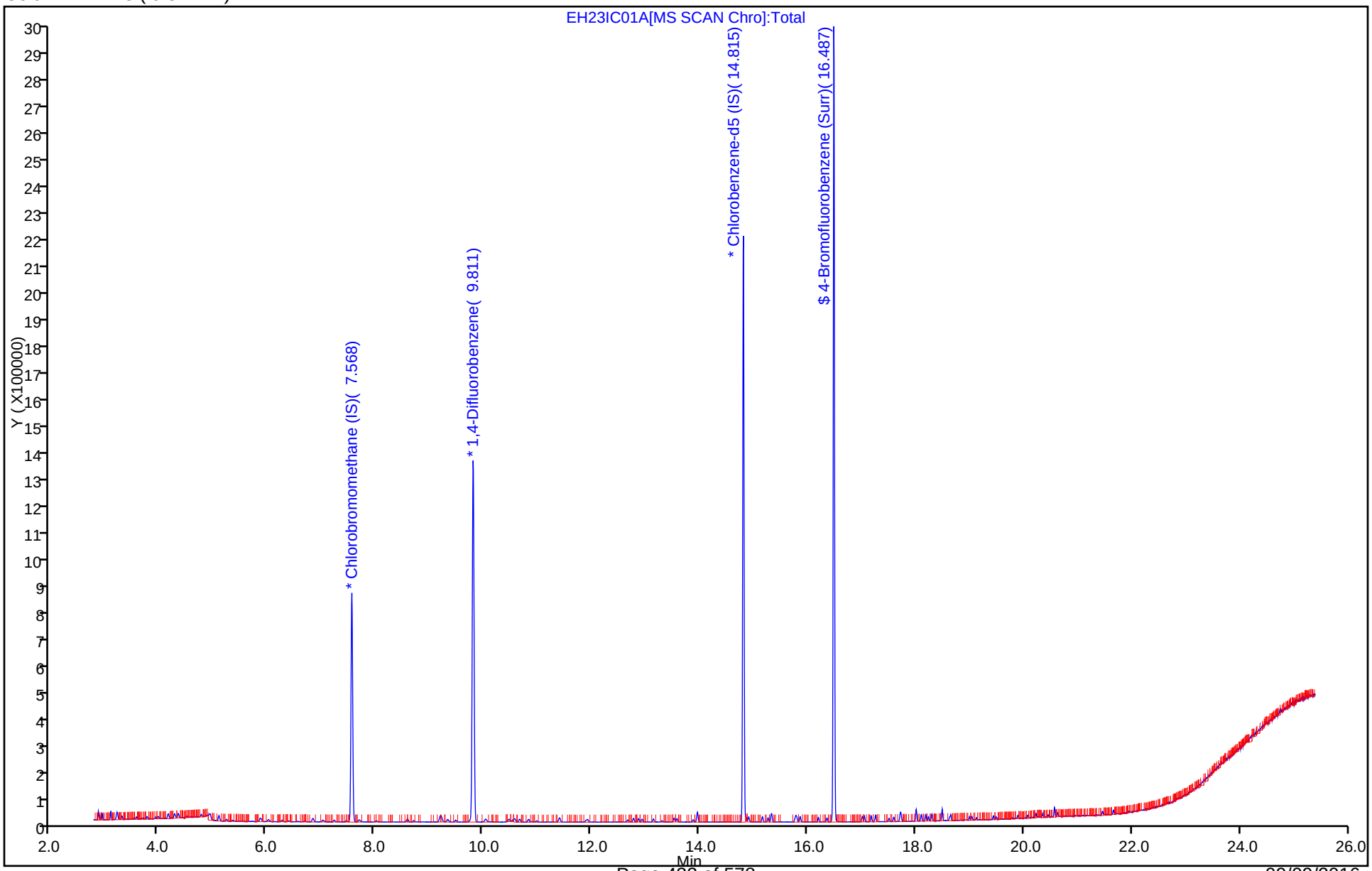
Report Date: 25-Aug-2016 12:59:23 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC01A.D

Injection Date:	23-Aug-2016 17:03:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L1			Worklist Smp#:	3
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)

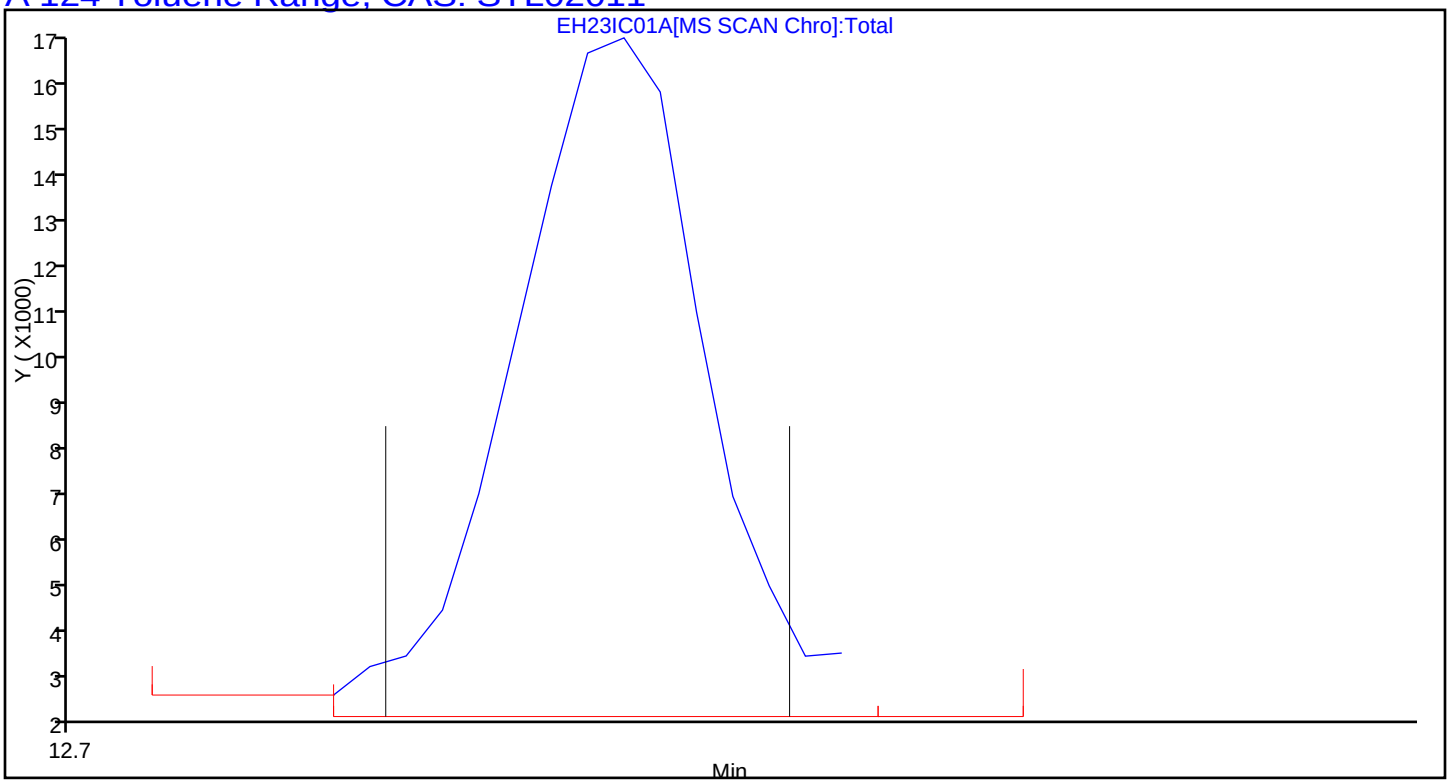


Report Date: 25-Aug-2016 12:59:23 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC01A.D				
Injection Date:	23-Aug-2016 17:03:30	Instrument ID:	ME		
Lims ID:	IC L1				
Client ID:					
Operator ID:	403648	ALS Bottle#:	7	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 124 Toluene Range, CAS: STL02011

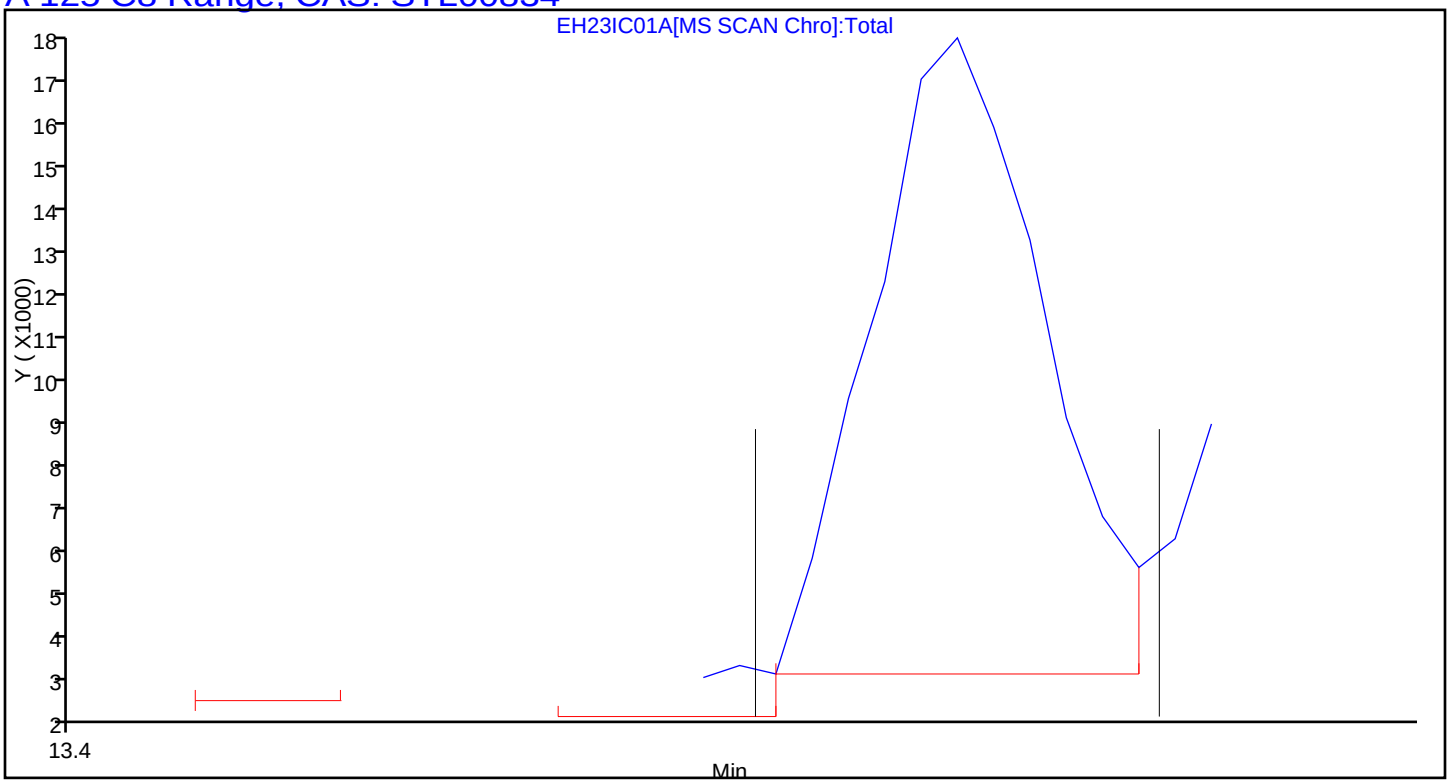


Report Date: 25-Aug-2016 12:59:23 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC01A.D				
Injection Date:	23-Aug-2016 17:03:30	Instrument ID:	ME		
Lims ID:	IC L1				
Client ID:					
Operator ID:	403648	ALS Bottle#:	7	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 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC02A.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Aug-2016 17:48:30 ALS Bottle#: 7 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052175
Misc. Info.: 140-0003339-004
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:26 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 13:25:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.576	-0.008	71	264078	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.817	9.819	-0.002	94	1240855	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1165990	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.492	-0.005	88	947995	4.00	3.97	
6 Chlorodifluoromethane	67	2.898	2.900	-0.002	95	2928	0.0784	0.0935	
7 Propene	41	2.909	2.909	0.000	92	3566	0.0784	0.0828	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	99	23179	0.0784	0.0835	
9 Chloromethane	52	3.098	3.102	-0.004	52	1895	0.0784	0.1063	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.109	3.110	-0.001	95	12333	0.0784	0.0835	
11 Acetaldehyde	44	3.227	3.232	-0.005	87	13875	0.3920	0.8169	
12 Vinyl chloride	62	3.243	3.244	-0.001	97	5569	0.0784	0.0782	
13 Butane	43	3.313	3.317	-0.004	79	6398	0.0784	0.0824	
14 Butadiene	54	3.313	3.317	-0.004	81	3861	0.0784	0.0857	
15 Bromomethane	94	3.583	3.583	0.000	97	7330	0.0784	0.0910	
16 Chloroethane	64	3.691	3.700	-0.009	96	3106	0.0784	0.0820	
17 Ethanol	31	3.777	3.786	-0.009	99	8936	0.3920	0.4772	
18 Vinyl bromide	106	3.944	3.950	-0.006	93	5787	0.0784	0.0752	
19 2-Methylbutane	43	3.988	3.990	-0.002	88	5862	0.0784	0.0988	
20 Trichlorofluoromethane	101	4.165	4.173	-0.008	99	22656	0.0784	0.0843	
21 Acrolein	56	4.187	4.186	0.001	97	2864	0.0784	0.1630	
22 Acetonitrile	40	4.236	4.243	-0.007	97	1696	0.0784	0.0992	
23 Acetone	58	4.284	4.283	0.001	99	12934	0.2352	0.5135	
24 Isopropyl alcohol	45	4.354	4.361	-0.007	87	17011	0.2352	0.2542	
25 Pentane	72	4.360	4.362	-0.002	70	1008	0.0784	0.0712	
26 Ethyl ether	31	4.516	4.510	0.006	77	3746	0.0784	0.0859	
27 1,1-Dichloroethene	96	4.791	4.790	0.001	98	6609	0.0784	0.0821	
29 Acrylonitrile	53	4.888	4.891	-0.003	75	3391	0.0784	0.0996	
28 2-Methyl-2-propanol	59	4.888	4.892	-0.004	90	9247	0.0784	0.0846	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.950	-0.003	95	14277	0.0784	0.0822	
31 Methylene Chloride	84	5.109	5.112	-0.003	80	10774	0.0784	0.1301	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.120	5.126	-0.006	84	5558	0.0784	0.0829	
33 Carbon disulfide	76	5.249	5.255	-0.006	98	19624	0.0784	0.0789	
34 trans-1,2-Dichloroethene	96	5.869	5.877	-0.008	95	6871	0.0784	0.0785	
35 2-Methylpentane	43	5.891	5.895	-0.004	85	9002	0.0784	0.0832	
36 Methyl tert-butyl ether	73	6.020	6.013	0.007	94	20902	0.0784	0.0826	
37 1,1-Dichloroethane	63	6.279	6.286	-0.007	98	12345	0.0784	0.0841	
38 Vinyl acetate	43	6.398	6.401	-0.003	98	10688	0.0784	0.0806	
39 2-Butanone (MEK)	72	6.851	6.843	0.008	86	4473	0.0784	0.1162	
40 Hexane	56	6.856	6.852	0.004	70	4300	0.0784	0.0834	
41 Isopropyl ether	45	7.029	7.025	0.004	88	13287	0.0784	0.0837	
42 cis-1,2-Dichloroethene	96	7.245	7.249	-0.004	92	6836	0.0784	0.0773	
43 Ethyl acetate	43	7.466	7.459	0.007	97	8234	0.0784	0.0797	
44 Chloroform	83	7.579	7.592	-0.013	93	18173	0.0784	0.0825	
45 Tert-butyl ethyl ether	59	7.703	7.698	0.005	90	15717	0.0784	0.0788	
46 Tetrahydrofuran	42	8.016	8.001	0.015	74	4206	0.0784	0.0813	
47 1,1,1-Trichloroethane	97	8.593	8.603	-0.010	96	19467	0.0784	0.0789	
48 1,2-Dichloroethane	62	8.711	8.721	-0.010	97	11809	0.0784	0.0838	
50 Cyclohexane	69	9.197	9.202	-0.005	61	3534	0.0784	0.0840	
54 Thiophene	84	9.207	9.207	0.000	53	12627	0.0784	0.0821	
51 Benzene	78	9.202	9.209	-0.007	95	22374	0.0784	0.0880	
49 n-Butanol	31	9.224	9.219	0.005	36	923	0.0784	0.0605	
52 Carbon tetrachloride	117	9.224	9.230	-0.006	96	19024	0.0784	0.0775	
53 2,3-Dimethylpentane	71	9.342	9.349	-0.007	84	4787	0.0784	0.0808	
55 Tert-amyl methyl ether	73	9.752	9.751	0.001	98	19478	0.0784	0.0826	
56 Isooctane	57	10.049	10.049	0.000	96	24385	0.0784	0.0825	
57 n-Heptane	71	10.475	10.480	-0.005	73	7633	0.0784	0.0844	
58 1,2-Dichloropropane	63	10.545	10.551	-0.006	82	5901	0.0784	0.0776	
59 Trichloroethene	130	10.588	10.590	-0.002	92	8785	0.0784	0.0790	
60 Dibromomethane	93	10.674	10.677	-0.003	94	8628	0.0784	0.0778	
61 Dichlorobromomethane	83	10.841	10.843	-0.002	98	16586	0.0784	0.0769	
62 1,4-Dioxane	88	10.895	10.884	0.011	53	2833	0.0784	0.0804	
63 Methyl methacrylate	41	10.981	10.985	-0.004	75	5235	0.0784	0.0772	
64 Methylcyclohexane	83	11.413	11.414	-0.001	88	15716	0.0784	0.0811	
65 4-Methyl-2-pentanone (MIBK	43	11.898	11.896	0.002	88	8173	0.0784	0.0820	
66 cis-1,3-Dichloropropene	75	11.930	11.934	-0.004	90	12216	0.0784	0.0794	
67 trans-1,3-Dichloropropene	75	12.675	12.676	-0.001	93	10851	0.0784	0.0736	
68 Toluene	91	12.777	12.783	-0.006	92	23255	0.0784	0.0832	
69 1,1,2-Trichloroethane	83	12.874	12.875	-0.001	96	6323	0.0784	0.0736	
70 2-Methylthiophene	97	12.939	12.942	-0.003	96	18731	0.0784	0.0806	
71 3-Methylthiophene	97	13.149	13.152	-0.003	98	17780	0.0784	0.0780	
72 2-Hexanone	58	13.300	13.303	-0.003	95	3989	0.0784	0.0733	
73 n-Octane	85	13.532	13.533	-0.001	77	7117	0.0784	0.0742	
74 Chlorodibromomethane	129	13.586	13.589	-0.003	96	12474	0.0784	0.0691	
75 Ethylene Dibromide	107	13.883	13.888	-0.005	97	11586	0.0784	0.0755	
76 Tetrachloroethene	129	13.963	13.966	-0.003	92	8885	0.0784	0.0817	
77 Chlorobenzene	112	14.864	14.865	-0.001	94	18115	0.0784	0.0838	
78 2,3-Dimethylheptane	43	14.912	14.914	-0.002	73	11722	0.0784	0.0788	
79 Ethylbenzene	91	15.166	15.168	-0.002	99	30099	0.0784	0.0802	
80 2-Ethylthiophene	97	15.268	15.272	-0.004	97	22396	0.0784	0.0763	
81 m-Xylene & p-Xylene	91	15.333	15.337	-0.004	98	48055	0.1568	0.1642	
83 Bromoform	173	15.775	15.776	-0.001	92	10774	0.0784	0.0612	
82 n-Nonane	57	15.786	15.790	-0.004	78	9836	0.0784	0.0783	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.808	15.807	0.001	96	12193	0.0784	0.0647	
85 o-Xylene	91	15.867	15.867	0.000	98	24528	0.0784	0.0799	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.202	-0.001	96	14594	0.0784	0.0747	
87 1,2,3-Trichloropropane	110	16.358	16.362	-0.004	97	5933	0.0784	0.0848	
88 Isopropylbenzene	105	16.465	16.466	-0.001	96	33182	0.0784	0.0810	
89 N-Propylbenzene	120	17.021	17.021	0.000	98	8033	0.0784	0.0762	
90 2-Chlorotoluene	126	17.053	17.054	-0.001	95	7078	0.0784	0.0741	
91 4-Ethyltoluene	105	17.177	17.181	-0.004	97	29234	0.0784	0.0764	
92 1,3,5-Trimethylbenzene	120	17.258	17.262	-0.004	90	13148	0.0784	0.0739	
93 Alpha Methyl Styrene	118	17.506	17.511	-0.005	88	8119	0.0784	0.0573	
94 n-Decane	57	17.598	17.599	-0.001	93	10886	0.0784	0.0744	
95 tert-Butylbenzene	119	17.717	17.721	-0.005	90	27036	0.0784	0.0770	
96 1,2,4-Trimethylbenzene	105	17.733	17.735	-0.002	95	26463	0.0784	0.0803	
97 sec-Butylbenzene	105	18.008	18.013	-0.005	98	36249	0.0784	0.0795	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	94	14866	0.0784	0.0743	
99 Benzyl chloride	91	18.099	18.104	-0.005	96	17888	0.0784	0.0672	
100 1,4-Dichlorobenzene	146	18.110	18.112	-0.002	93	14262	0.0784	0.0733	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	29003	0.0784	0.0770	
102 1,2,3-Trimethylbenzene	105	18.240	18.240	0.000	98	18872	0.0784	0.0758	
103 Butylcyclohexane	83	18.304	18.305	-0.001	96	19815	0.0784	0.0794	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	90	15315	0.0784	0.0785	
105 2,3-Dihydroindene	117	18.493	18.495	-0.002	93	21069	0.0784	0.0758	
106 Indene	116	18.633	18.632	0.001	91	13232	0.0784	0.0634	
107 n-Butylbenzene	91	18.649	18.652	-0.003	98	25304	0.0784	0.0731	
108 Undecane	57	19.000	19.000	0.000	87	7943	0.0784	0.0546	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	18208	0.0784	0.0686	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	91	4706	0.0784	0.0600	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	20317	0.0784	0.0674	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.498	-0.002	93	11592	0.0784	0.0627	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.895	0.000	96	13974	0.0784	0.0601	
114 Dodecane	57	20.078	20.078	0.000	91	5164	0.0784	0.0591	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	90	8155	0.0784	0.0623	
116 Naphthalene	128	20.353	20.357	-0.004	98	15496	0.0784	0.0641	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	99	9611	0.0784	0.0740	
118 Hexachlorobutadiene	225	20.569	20.574	-0.005	94	13399	0.0784	0.0717	
119 1,2,3-Trichlorobenzene	180	20.628	20.631	-0.003	94	7473	0.0784	0.0693	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	97	13609	0.2450	0.2741	
121 1-Methylnaphthalene	142	21.664	21.664	0.000	97	11330	0.2450	0.2703	
A 124 Toluene Range	1	12.777	(12.747-12.807)		0	55553	0.0784	0.0828	
A 125 C8 Range	1	13.526	(13.502-13.562)		0	51769	0.0784	0.0770	
S 126 Xylenes, Total	100				0		0.2352	0.2441	
S 127 1,2-Dichloroethene, Total	1				0		0.1568	0.1558	

Reagents:

40L12DNP_00006	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

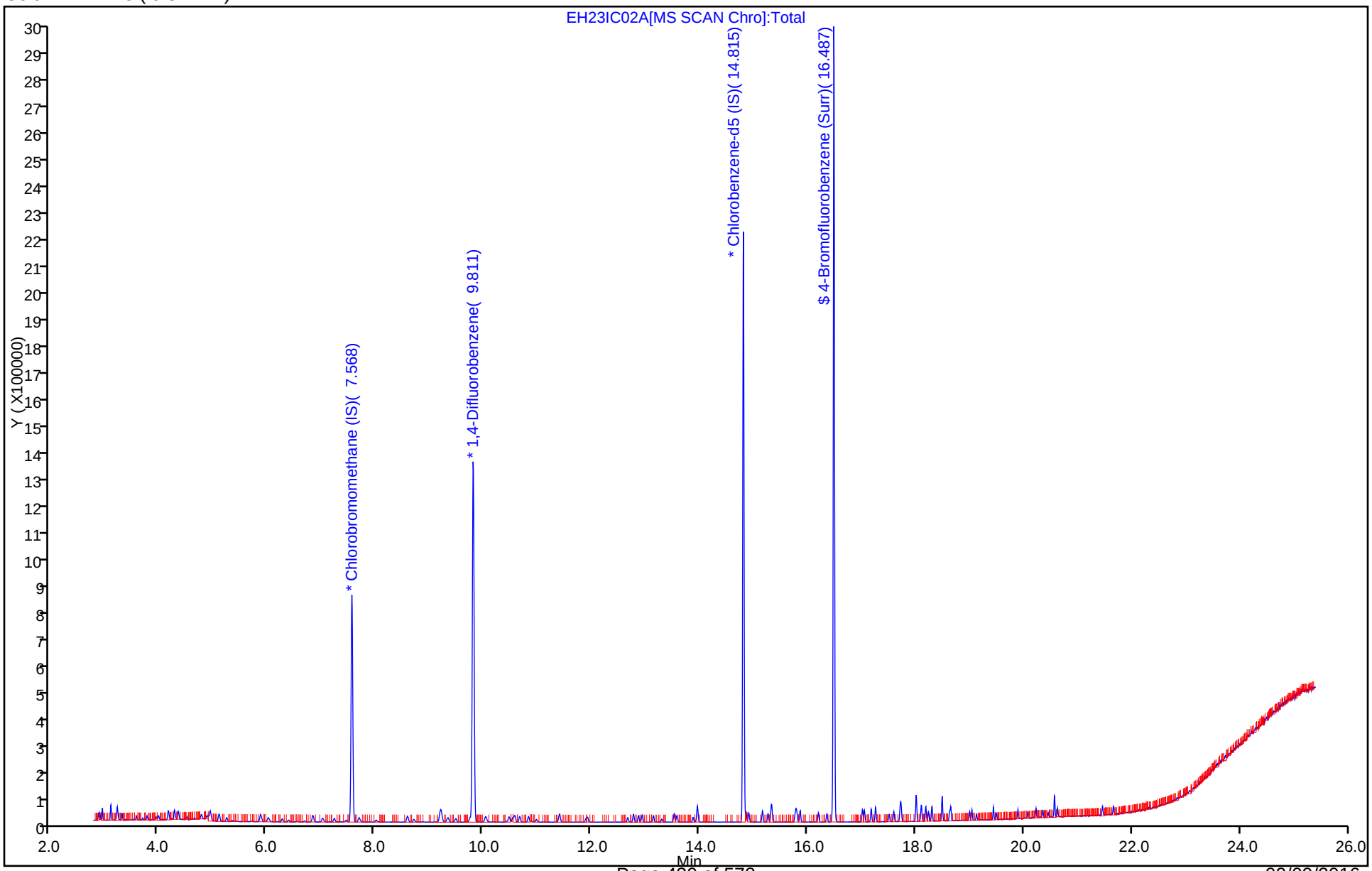
Report Date: 25-Aug-2016 12:59:27 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC02A.D

Injection Date:	23-Aug-2016 17:48:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L2			Worklist Smp#:	4
Client ID:					
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

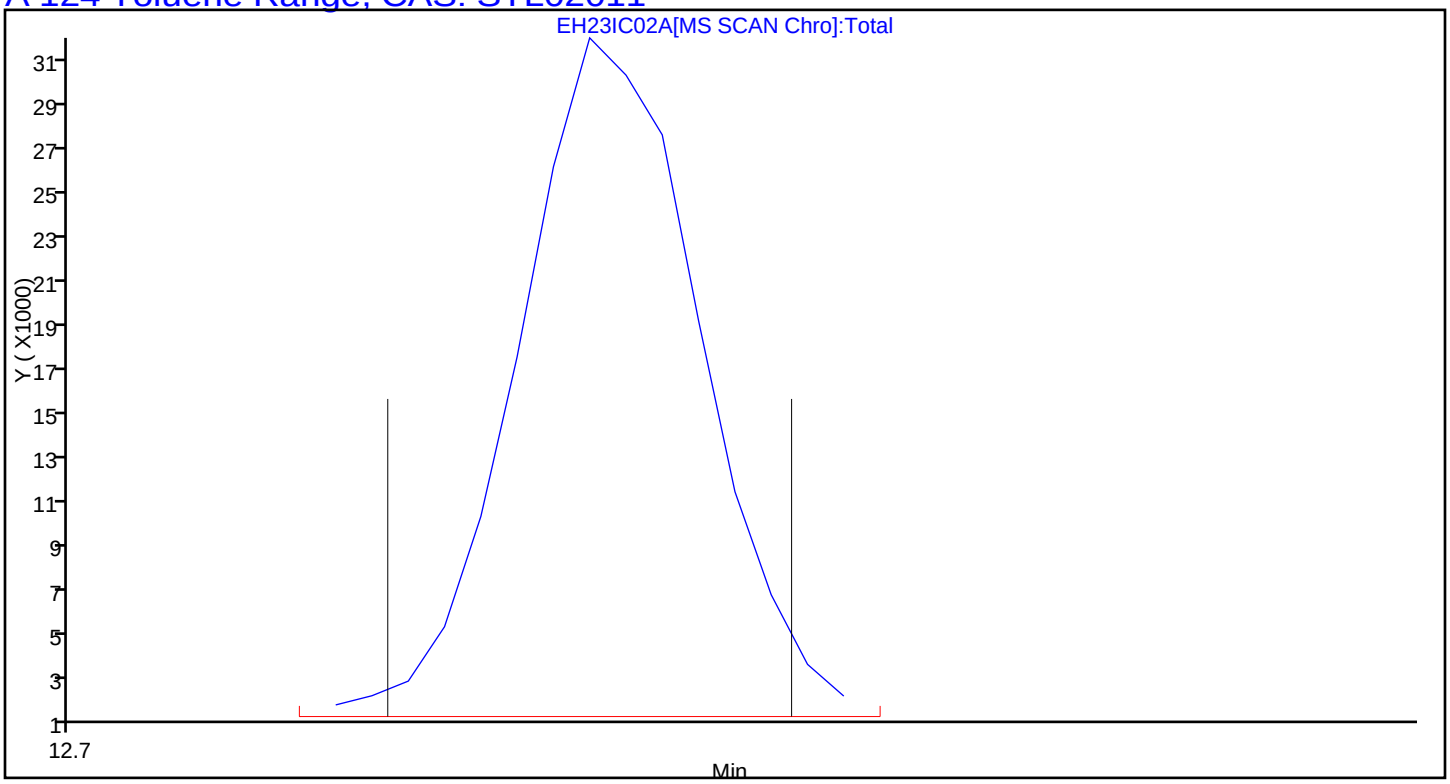
Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC02A.D				
Injection Date:	23-Aug-2016 17:48:30	Instrument ID:	ME		
Lims ID:	IC L2				
Client ID:					
Operator ID:	403648	ALS Bottle#:	7	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 124 Toluene Range, CAS: STL02011

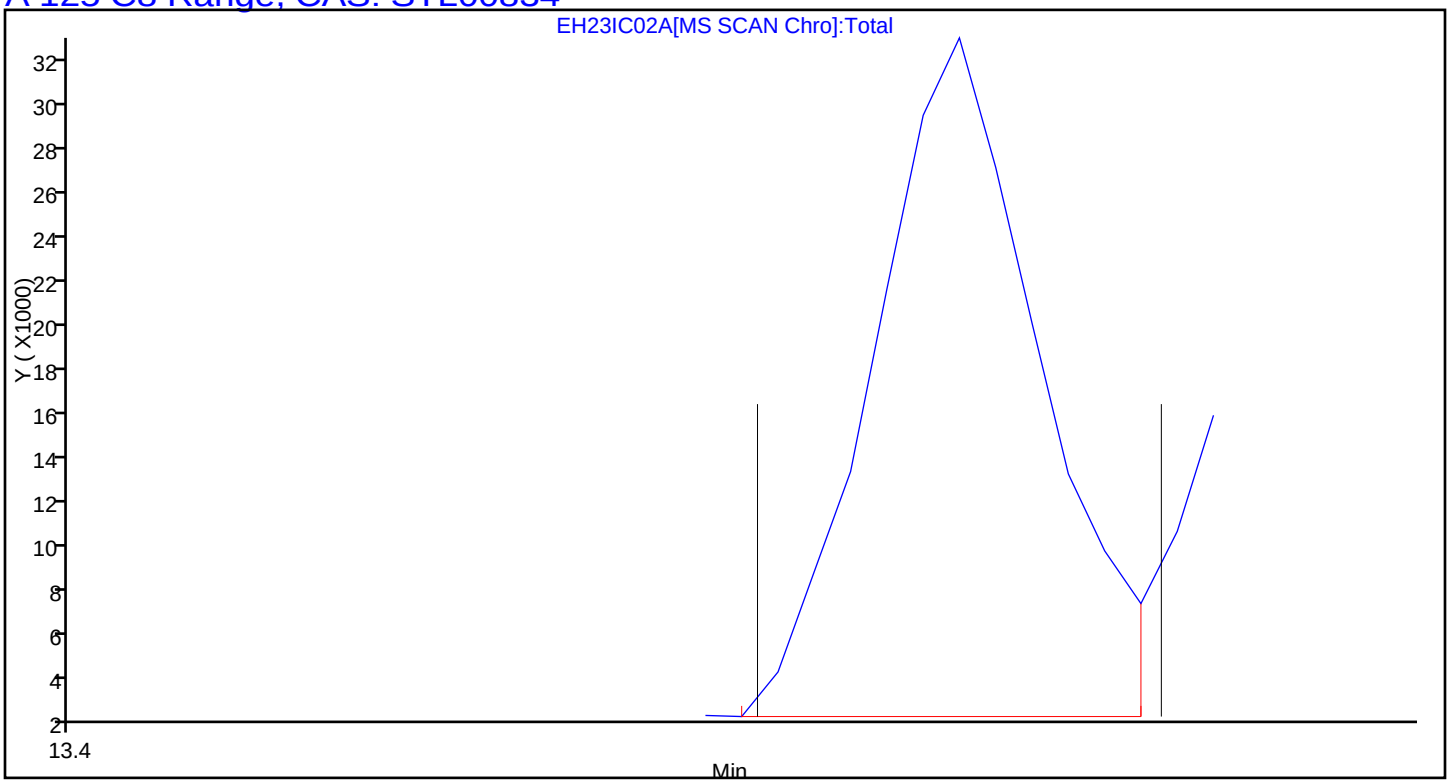


Report Date: 25-Aug-2016 12:59:27 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC02A.D				
Injection Date:	23-Aug-2016 17:48:30	Instrument ID:	ME		
Lims ID:	IC L2				
Client ID:					
Operator ID:	403648	ALS Bottle#:	7	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 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC03A.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Aug-2016 18:32:30 ALS Bottle#: 8 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052174
Misc. Info.: 140-0003339-005
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:31 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 10:36:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.579	7.576	0.003	72	262982	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.822	9.819	0.003	94	1235682	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1167222	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.492	16.492	0.000	90	947828	4.00	3.97	
6 Chlorodifluoromethane	67	2.909	2.900	0.009	94	4908	0.1587	0.1573	
7 Propene	41	2.914	2.909	0.005	95	7544	0.1587	0.1759	
8 Dichlorodifluoromethane	85	2.957	2.952	0.005	99	44567	0.1587	0.1612	
9 Chloromethane	52	3.108	3.102	0.006	56	3298	0.1587	0.1857	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.119	3.110	0.009	95	23446	0.1587	0.1595	
11 Acetaldehyde	44	3.238	3.232	0.006	89	24182	0.7933	1.43	
12 Vinyl chloride	62	3.249	3.244	0.004	98	11211	0.1587	0.1582	
13 Butane	43	3.324	3.317	0.007	82	11924	0.1587	0.1542	
14 Butadiene	54	3.324	3.317	0.007	73	6758	0.1587	0.1507	
15 Bromomethane	94	3.588	3.583	0.005	96	12380	0.1587	0.1543	
16 Chloroethane	64	3.707	3.700	0.007	96	5751	0.1587	0.1524	
17 Ethanol	31	3.793	3.786	0.007	99	16292	0.7933	0.8737	
18 Vinyl bromide	106	3.955	3.950	0.005	97	11678	0.1587	0.1523	
19 2-Methylbutane	43	3.993	3.990	0.003	87	8881	0.1587	0.1503	
20 Trichlorofluoromethane	101	4.181	4.173	0.008	99	42491	0.1587	0.1587	
21 Acrolein	56	4.192	4.186	0.006	26	3766	0.1587	0.2153	
22 Acetonitrile	40	4.246	4.243	0.003	96	2881	0.1587	0.1693	
23 Acetone	58	4.295	4.283	0.012	98	22263	0.4760	0.8875	
24 Isopropyl alcohol	45	4.370	4.361	0.009	85	32758	0.4760	0.4915	
25 Pentane	72	4.370	4.362	0.008	72	2051	0.1587	0.1455	
26 Ethyl ether	31	4.521	4.510	0.011	81	6354	0.1587	0.1462	
27 1,1-Dichloroethene	96	4.796	4.790	0.006	100	11990	0.1587	0.1495	
29 Acrylonitrile	53	4.899	4.891	0.008	57	6101	0.1587	0.1800	
28 2-Methyl-2-propanol	59	4.909	4.892	0.017	94	16935	0.1587	0.1555	
30 1,1,2-Trichloro-1,2,2-trif	101	4.952	4.950	0.002	95	26822	0.1587	0.1551	
31 Methylene Chloride	84	5.114	5.112	0.002	79	16718	0.1587	0.2027	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.130	5.126	0.004	88	12096	0.1587	0.1811	
33 Carbon disulfide	76	5.260	5.255	0.005	98	38633	0.1587	0.1560	
34 trans-1,2-Dichloroethene	96	5.880	5.877	0.003	96	13626	0.1587	0.1563	
35 2-Methylpentane	43	5.902	5.895	0.007	83	16505	0.1587	0.1531	
36 Methyl tert-butyl ether	73	6.031	6.013	0.018	93	39367	0.1587	0.1561	
37 1,1-Dichloroethane	63	6.290	6.286	0.004	98	22341	0.1587	0.1528	
38 Vinyl acetate	43	6.408	6.401	0.007	98	19323	0.1587	0.1463	
39 2-Butanone (MEK)	72	6.851	6.843	0.008	87	7325	0.1587	0.1911	
40 Hexane	56	6.856	6.852	0.004	72	8320	0.1587	0.1620	
41 Isopropyl ether	45	7.039	7.025	0.014	90	24795	0.1587	0.1569	
42 cis-1,2-Dichloroethene	96	7.250	7.249	0.001	92	13111	0.1587	0.1490	
43 Ethyl acetate	43	7.465	7.459	0.006	98	15665	0.1587	0.1523	
44 Chloroform	83	7.595	7.592	0.003	93	34481	0.1587	0.1573	
45 Tert-butyl ethyl ether	59	7.713	7.698	0.015	89	30887	0.1587	0.1556	M
46 Tetrahydrofuran	42	8.015	8.001	0.014	76	8437	0.1587	0.1638	
47 1,1,1-Trichloroethane	97	8.603	8.603	0.000	92	38466	0.1587	0.1565	
48 1,2-Dichloroethane	62	8.722	8.721	0.001	99	21847	0.1587	0.1557	
50 Cyclohexane	69	9.202	9.202	0.000	60	6309	0.1587	0.1507	
54 Thiophene	84	9.212	9.207	0.005	53	23414	0.1587	0.1529	
51 Benzene	78	9.212	9.209	0.003	95	41095	0.1587	0.1623	
49 n-Butanol	31	9.239	9.219	0.020	34	2173	0.1587	0.1430	
52 Carbon tetrachloride	117	9.234	9.230	0.004	97	37717	0.1587	0.1542	
53 2,3-Dimethylpentane	71	9.353	9.349	0.004	85	8770	0.1587	0.1487	
55 Tert-amyl methyl ether	73	9.762	9.751	0.011	98	36281	0.1587	0.1537	
56 Isooctane	57	10.054	10.049	0.005	97	45400	0.1587	0.1542	
57 n-Heptane	71	10.480	10.480	0.000	77	13516	0.1587	0.1501	
58 1,2-Dichloropropane	63	10.550	10.551	-0.001	83	11537	0.1587	0.1524	
59 Trichloroethene	130	10.593	10.590	0.003	92	17186	0.1587	0.1552	
60 Dibromomethane	93	10.674	10.677	-0.003	94	16846	0.1587	0.1525	
61 Dichlorobromomethane	83	10.841	10.843	-0.002	97	31068	0.1587	0.1446	
62 1,4-Dioxane	88	10.895	10.884	0.011	85	5236	0.1587	0.1492	
63 Methyl methacrylate	41	10.987	10.985	0.002	78	9366	0.1587	0.1388	
64 Methylcyclohexane	83	11.418	11.414	0.004	89	30495	0.1587	0.1580	
65 4-Methyl-2-pentanone (MIBK	43	11.903	11.896	0.007	94	16142	0.1587	0.1626	
66 cis-1,3-Dichloropropene	75	11.936	11.934	0.002	88	22355	0.1587	0.1459	
67 trans-1,3-Dichloropropene	75	12.674	12.676	-0.002	93	21349	0.1587	0.1446	
68 Toluene	91	12.782	12.783	-0.001	94	43873	0.1587	0.1567	
69 1,1,2-Trichloroethane	83	12.874	12.875	-0.001	96	13139	0.1587	0.1529	
70 2-Methylthiophene	97	12.944	12.942	0.002	96	34204	0.1587	0.1470	
71 3-Methylthiophene	97	13.154	13.152	0.002	98	33682	0.1587	0.1477	
72 2-Hexanone	58	13.311	13.303	0.008	96	8116	0.1587	0.1489	
73 n-Octane	85	13.532	13.533	-0.001	77	15198	0.1587	0.1582	
74 Chlorodibromomethane	129	13.586	13.589	-0.003	97	24716	0.1587	0.1367	
75 Ethylene Dibromide	107	13.888	13.888	0.000	97	22191	0.1587	0.1445	
76 Tetrachloroethene	129	13.969	13.966	0.003	94	16751	0.1587	0.1538	
77 Chlorobenzene	112	14.864	14.865	-0.001	92	33481	0.1587	0.1547	
78 2,3-Dimethylheptane	43	14.918	14.914	0.004	73	22617	0.1587	0.1519	
79 Ethylbenzene	91	15.166	15.168	-0.002	98	57978	0.1587	0.1543	
80 2-Ethylthiophene	97	15.274	15.272	0.002	98	44774	0.1587	0.1524	
81 m-Xylene & p-Xylene	91	15.338	15.337	0.001	99	93076	0.3173	0.3177	
83 Bromoform	173	15.775	15.776	-0.001	95	22445	0.1587	0.1274	
82 n-Nonane	57	15.791	15.790	0.001	76	19483	0.1587	0.1550	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.807	15.807	0.000	95	25652	0.1587	0.1359	
85 o-Xylene	91	15.867	15.867	0.000	97	48334	0.1587	0.1572	
86 1,1,2,2-Tetrachloroethane	83	16.206	16.202	0.004	97	28026	0.1587	0.1433	
87 1,2,3-Trichloropropane	110	16.363	16.362	0.001	97	10099	0.1587	0.1442	
88 Isopropylbenzene	105	16.465	16.466	-0.001	97	63990	0.1587	0.1560	
89 N-Propylbenzene	120	17.021	17.021	0.000	99	15956	0.1587	0.1512	
90 2-Chlorotoluene	126	17.053	17.054	-0.001	97	15148	0.1587	0.1585	
91 4-Ethyltoluene	105	17.182	17.181	0.001	98	56915	0.1587	0.1487	
92 1,3,5-Trimethylbenzene	120	17.258	17.262	-0.004	91	26795	0.1587	0.1503	
93 Alpha Methyl Styrene	118	17.511	17.511	0.000	88	16546	0.1587	0.1167	
94 n-Decane	57	17.598	17.599	-0.001	94	21656	0.1587	0.1478	
95 tert-Butylbenzene	119	17.722	17.721	0.001	90	54531	0.1587	0.1551	
96 1,2,4-Trimethylbenzene	105	17.732	17.735	-0.003	94	50168	0.1587	0.1520	
97 sec-Butylbenzene	105	18.013	18.013	0.000	98	71394	0.1587	0.1563	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	97	29174	0.1587	0.1456	
99 Benzyl chloride	91	18.104	18.104	0.000	97	33870	0.1587	0.1270	
100 1,4-Dichlorobenzene	146	18.110	18.112	-0.002	90	28310	0.1587	0.1454	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	57090	0.1587	0.1514	
102 1,2,3-Trimethylbenzene	105	18.239	18.240	-0.001	98	38345	0.1587	0.1539	
103 Butylcyclohexane	83	18.304	18.305	-0.001	95	39107	0.1587	0.1566	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	91	28420	0.1587	0.1455	
105 2,3-Dihydroindene	117	18.493	18.495	-0.002	93	41715	0.1587	0.1499	
106 Indene	116	18.633	18.632	0.001	95	27114	0.1587	0.1297	
107 n-Butylbenzene	91	18.649	18.652	-0.003	98	50373	0.1587	0.1454	
108 Undecane	57	19.000	19.000	0.000	84	16912	0.1587	0.1162	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	38137	0.1587	0.1435	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	91	8867	0.1587	0.1130	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	40848	0.1587	0.1354	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.498	-0.002	93	25123	0.1587	0.1358	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.895	0.000	95	30214	0.1587	0.1298	
114 Dodecane	57	20.073	20.078	-0.005	92	11284	0.1587	0.1290	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	93	15989	0.1587	0.1221	
116 Naphthalene	128	20.359	20.357	0.001	98	27498	0.1587	0.1137	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	98	15165	0.1587	0.1166	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	95	28753	0.1587	0.1537	
119 1,2,3-Trichlorobenzene	180	20.634	20.631	0.003	93	14072	0.1587	0.1304	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	98	27638	0.4958	0.5560	
121 1-Methylnaphthalene	142	21.663	21.664	-0.001	99	24598	0.4958	0.5862	
A 124 Toluene Range	1	12.782	(12.752-12.812)		0	105445	0.1587	0.1578	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	102859	0.1587	0.1537	
S 126 Xylenes, Total	100				0		0.4760	0.4749	
S 127 1,2-Dichloroethene, Total	1				0		0.3173	0.3052	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40L3DNP_00007	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

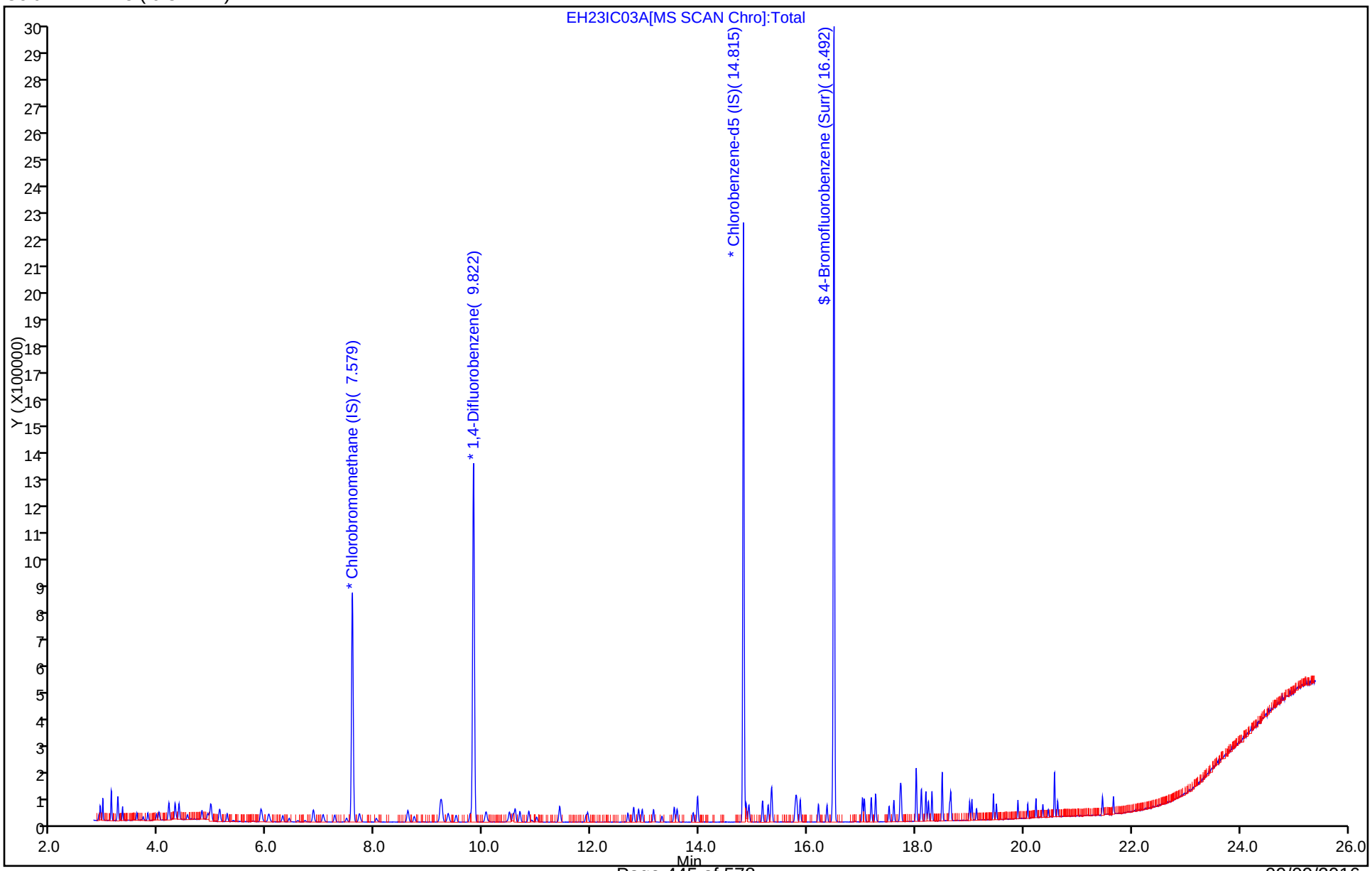
Report Date: 25-Aug-2016 12:59:32 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC03A.D

Injection Date:	23-Aug-2016 18:32:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L3			Worklist Smp#:	5
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)

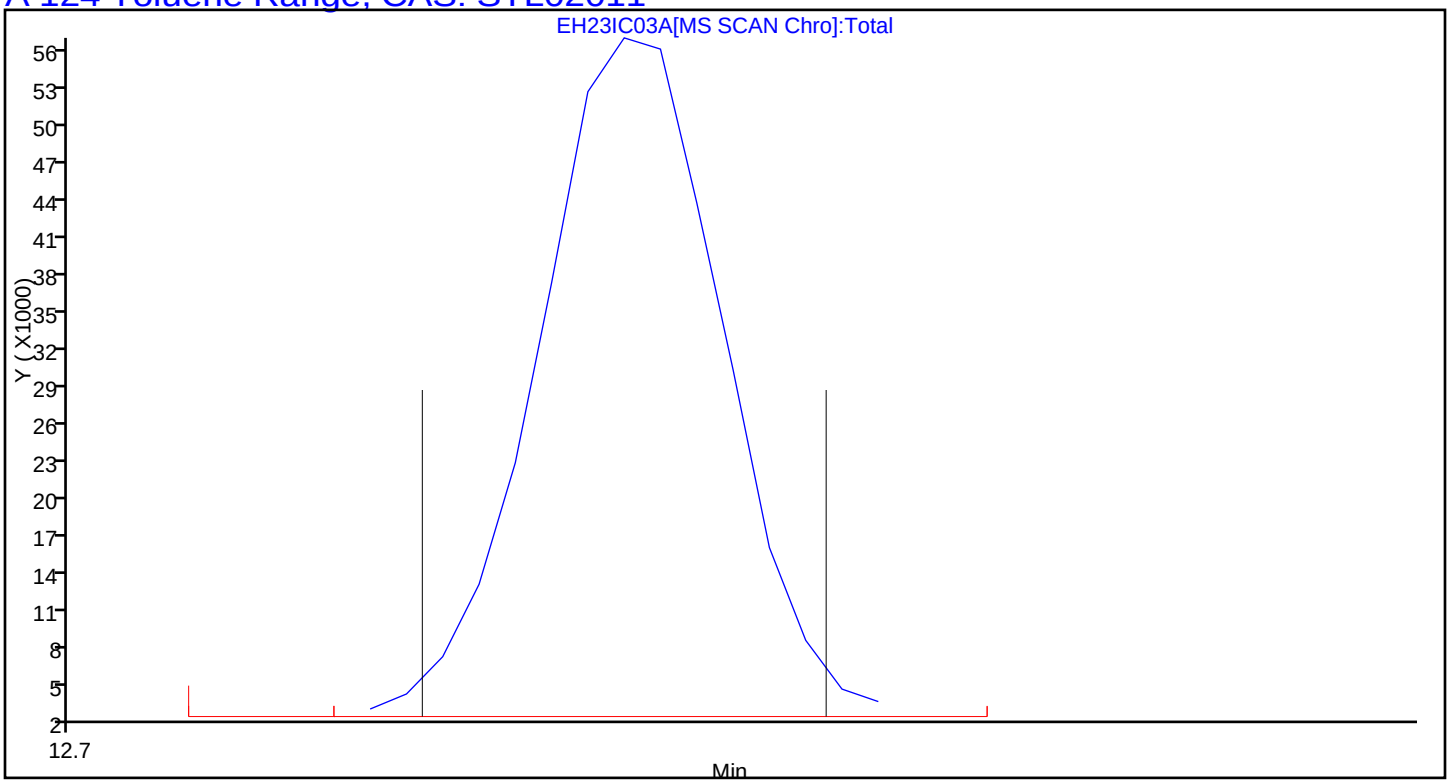


Report Date: 25-Aug-2016 12:59:32 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC03A.D				
Injection Date:	23-Aug-2016 18:32:30	Instrument ID:	ME		
Lims ID:	IC L3				
Client ID:					
Operator ID:	403648	ALS Bottle#:	8	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 124 Toluene Range, CAS: STL02011

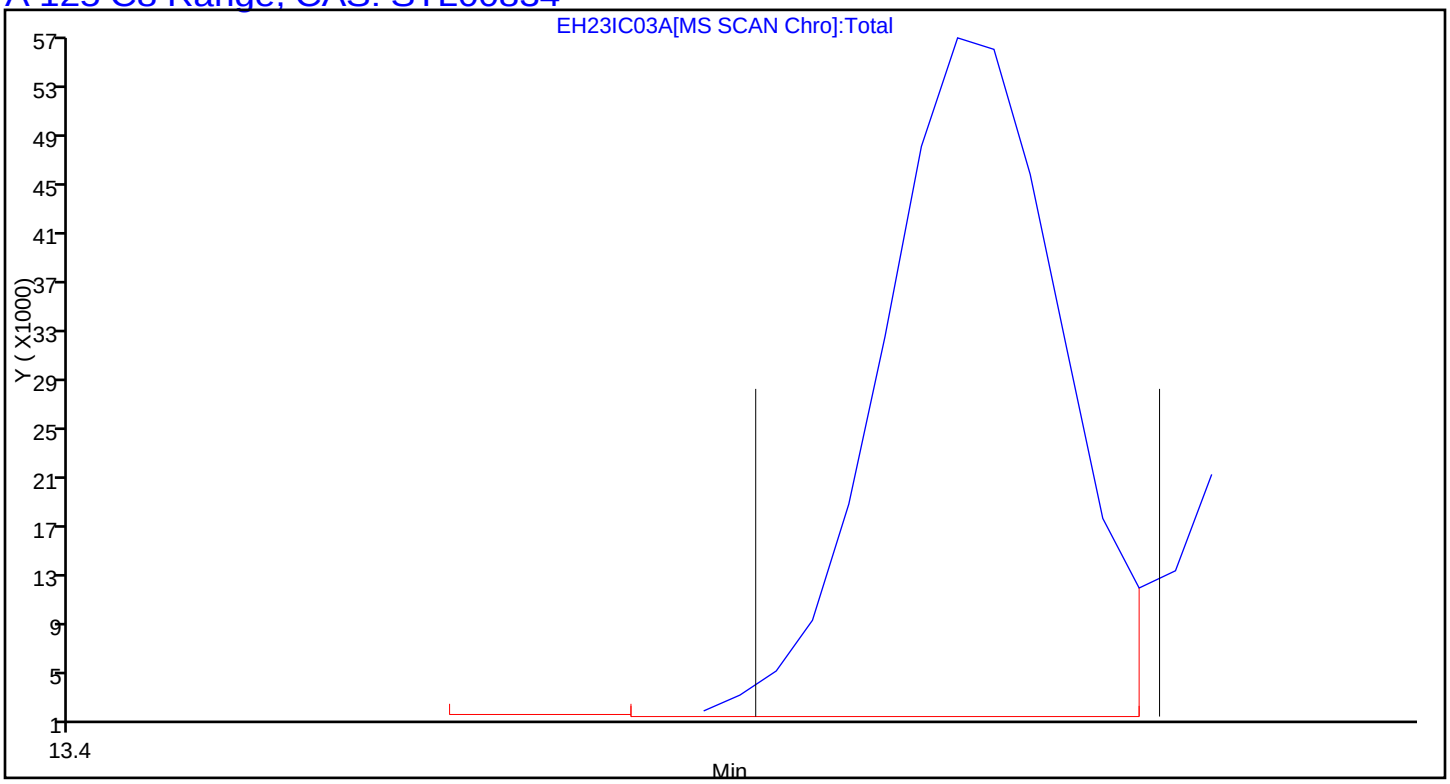


Report Date: 25-Aug-2016 12:59:32 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC03A.D				
Injection Date:	23-Aug-2016 18:32:30	Instrument ID:	ME		
Lims ID:	IC L3				
Client ID:					
Operator ID:	403648	ALS Bottle#:	8	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 125 C8 Range, CAS: STL00834



Manual Integration/User Assign Peak Report

TestAmerica Knoxville

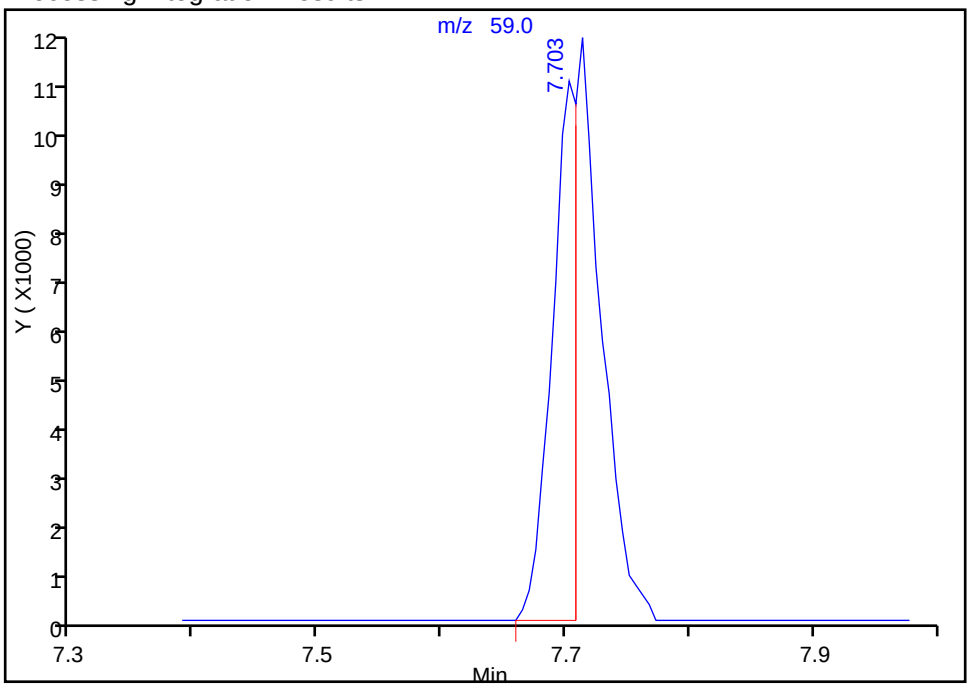
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Injection Date: 23-Aug-2016 18:32:30 Instrument ID: ME
Lims ID: IC L3
Client ID:
Operator ID: 403648 ALS Bottle#: 8 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

45 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

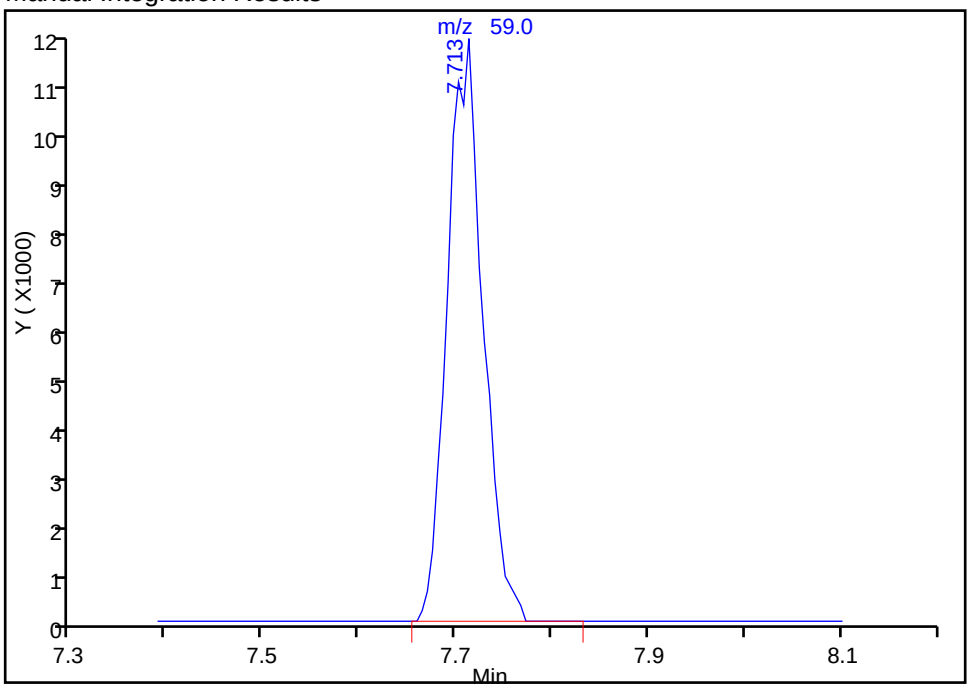
Processing Integration Results

RT: 7.70
Area: 15777
Amount: 0.083950
Amount Units: ppb v/v



Manual Integration Results

RT: 7.71
Area: 30887
Amount: 0.155591
Amount Units: ppb v/v



Reviewer: barlozhetskayaa, 24-Aug-2016 10:36:45
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC04.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Aug-2016 19:17:30 ALS Bottle#: 9 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052173
Misc. Info.: 140-0003339-006
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:35 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 10:38:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.576	-0.003	72	263906	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.819	-0.003	94	1265705	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1182255	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.492	16.492	0.000	90	981774	4.00	4.06	
6 Chlorodifluoromethane	67	2.903	2.900	0.003	95	12124	0.4000	0.3872	
7 Propene	41	2.909	2.909	0.000	94	17666	0.4000	0.4104	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	99	113130	0.4000	0.4076	
9 Chloromethane	52	3.103	3.102	0.001	99	6795	0.4000	0.3814	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.110	-0.002	95	61020	0.4000	0.4136	
11 Acetaldehyde	44	3.232	3.232	0.000	90	41149	2.00	2.42	
12 Vinyl chloride	62	3.243	3.244	-0.001	99	27219	0.4000	0.3827	
13 Butane	43	3.319	3.317	0.002	81	30014	0.4000	0.3868	
14 Butadiene	54	3.319	3.317	0.002	76	17338	0.4000	0.3852	
15 Bromomethane	94	3.583	3.583	0.000	97	31392	0.4000	0.3899	
16 Chloroethane	64	3.696	3.700	-0.004	98	14567	0.4000	0.3847	
17 Ethanol	31	3.777	3.786	-0.009	99	38188	2.00	2.04	
18 Vinyl bromide	106	3.950	3.950	0.000	98	30365	0.4000	0.3946	
19 2-Methylbutane	43	3.987	3.990	-0.003	88	21789	0.4000	0.3674	
20 Trichlorofluoromethane	101	4.171	4.173	-0.002	99	108799	0.4000	0.4050	
21 Acrolein	56	4.181	4.186	-0.005	26	6243	0.4000	0.3556	
22 Acetonitrile	40	4.241	4.243	-0.002	95	7085	0.4000	0.4148	
23 Acetone	58	4.278	4.283	-0.005	99	37431	1.20	1.49	
24 Isopropyl alcohol	45	4.354	4.361	-0.007	96	79096	1.20	1.18	
25 Pentane	72	4.359	4.362	-0.003	95	5985	0.4000	0.4230	
26 Ethyl ether	31	4.510	4.510	0.000	81	17552	0.4000	0.4025	
27 1,1-Dichloroethene	96	4.785	4.790	-0.005	98	31108	0.4000	0.3866	
29 Acrylonitrile	53	4.882	4.891	-0.009	52	13567	0.4000	0.3989	
28 2-Methyl-2-propanol	59	4.882	4.892	-0.010	92	43118	0.4000	0.3946	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.950	-0.003	95	69670	0.4000	0.4016	
31 Methylene Chloride	84	5.109	5.112	-0.003	79	35881	0.4000	0.4334	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.125	5.126	-0.001	88	27029	0.4000	0.4032	
33 Carbon disulfide	76	5.254	5.255	-0.001	98	98285	0.4000	0.3956	
34 trans-1,2-Dichloroethene	96	5.875	5.877	-0.002	96	34857	0.4000	0.3983	
35 2-Methylpentane	43	5.891	5.895	-0.004	84	41648	0.4000	0.3850	
36 Methyl tert-butyl ether	73	6.015	6.013	0.002	93	103036	0.4000	0.4072	
37 1,1-Dichloroethane	63	6.284	6.286	-0.002	99	57616	0.4000	0.3926	
38 Vinyl acetate	43	6.398	6.401	-0.003	99	49063	0.4000	0.3701	
39 2-Butanone (MEK)	72	6.840	6.843	-0.003	97	16894	0.4000	0.4393	
40 Hexane	56	6.851	6.852	-0.001	80	20477	0.4000	0.3973	
41 Isopropyl ether	45	7.018	7.025	-0.007	90	64018	0.4000	0.4036	
42 cis-1,2-Dichloroethene	96	7.244	7.249	-0.005	90	34713	0.4000	0.3930	
43 Ethyl acetate	43	7.455	7.459	-0.004	98	42005	0.4000	0.4070	
44 Chloroform	83	7.589	7.592	-0.003	95	86910	0.4000	0.3950	
45 Tert-butyl ethyl ether	59	7.692	7.698	-0.006	90	81207	0.4000	0.4076	
46 Tetrahydrofuran	42	7.999	8.001	-0.002	77	19875	0.4000	0.3846	
47 1,1,1-Trichloroethane	97	8.598	8.603	-0.005	94	97977	0.4000	0.3973	
48 1,2-Dichloroethane	62	8.722	8.721	0.001	98	55807	0.4000	0.3884	
50 Cyclohexane	69	9.207	9.202	0.005	63	16775	0.4000	0.3911	
54 Thiophene	84	9.207	9.207	0.000	52	60273	0.4000	0.3843	
51 Benzene	78	9.207	9.209	-0.002	95	101363	0.4000	0.3907	
49 n-Butanol	31	9.223	9.219	0.004	38	5619	0.4000	0.3609	
52 Carbon tetrachloride	117	9.229	9.230	-0.001	97	95982	0.4000	0.3832	
53 2,3-Dimethylpentane	71	9.347	9.349	-0.002	84	22772	0.4000	0.3769	
55 Tert-amyl methyl ether	73	9.752	9.751	0.001	97	96249	0.4000	0.4026	
56 Isooctane	57	10.048	10.049	-0.001	97	116372	0.4000	0.3860	
57 n-Heptane	71	10.474	10.480	-0.006	77	35307	0.4000	0.3827	
58 1,2-Dichloropropane	63	10.550	10.551	-0.001	85	31204	0.4000	0.4025	
59 Trichloroethene	130	10.588	10.590	-0.002	94	44392	0.4000	0.3915	
60 Dibromomethane	93	10.674	10.677	-0.003	94	44214	0.4000	0.3909	
61 Dichlorobromomethane	83	10.841	10.843	-0.002	97	83097	0.4000	0.3777	
62 1,4-Dioxane	88	10.884	10.884	0.000	78	14190	0.4000	0.3948	
63 Methyl methacrylate	41	10.981	10.985	-0.004	78	25512	0.4000	0.3690	
64 Methylcyclohexane	83	11.413	11.414	-0.001	90	77063	0.4000	0.3899	
65 4-Methyl-2-pentanone (MIBK	43	11.898	11.896	0.002	91	38946	0.4000	0.3829	
66 cis-1,3-Dichloropropene	75	11.930	11.934	-0.004	90	59979	0.4000	0.3822	
67 trans-1,3-Dichloropropene	75	12.674	12.676	-0.002	93	57807	0.4000	0.3867	
68 Toluene	91	12.782	12.783	-0.001	94	113294	0.4000	0.3995	
69 1,1,2-Trichloroethane	83	12.874	12.875	-0.001	98	34398	0.4000	0.3951	
70 2-Methylthiophene	97	12.939	12.942	-0.003	96	94924	0.4000	0.4028	
71 3-Methylthiophene	97	13.149	13.152	-0.003	98	92948	0.4000	0.4023	
72 2-Hexanone	58	13.300	13.303	-0.003	98	21539	0.4000	0.3903	
73 n-Octane	85	13.532	13.533	-0.001	77	37708	0.4000	0.3876	
74 Chlorodibromomethane	129	13.586	13.589	-0.003	97	67349	0.4000	0.3677	
75 Ethylene Dibromide	107	13.888	13.888	0.000	99	59149	0.4000	0.3804	
76 Tetrachloroethene	129	13.963	13.966	-0.003	94	42406	0.4000	0.3844	
77 Chlorobenzene	112	14.864	14.865	-0.001	91	86732	0.4000	0.3956	
78 2,3-Dimethylheptane	43	14.912	14.914	-0.002	77	59008	0.4000	0.3912	
79 Ethylbenzene	91	15.166	15.168	-0.002	99	154002	0.4000	0.4047	
80 2-Ethylthiophene	97	15.268	15.272	-0.004	98	120392	0.4000	0.4046	
81 m-Xylene & p-Xylene	91	15.333	15.337	-0.004	99	245430	0.8000	0.8271	
83 Bromoform	173	15.775	15.776	-0.001	95	60792	0.4000	0.3408	
82 n-Nonane	57	15.786	15.790	-0.004	77	50166	0.4000	0.3941	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.807	15.807	0.000	96	72725	0.4000	0.3803	
85 o-Xylene	91	15.867	15.867	0.000	98	125205	0.4000	0.4020	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.202	-0.001	98	77899	0.4000	0.3933	
87 1,2,3-Trichloropropane	110	16.357	16.362	-0.005	97	28342	0.4000	0.3994	
88 Isopropylbenzene	105	16.465	16.466	-0.001	96	168653	0.4000	0.4059	
89 N-Propylbenzene	120	17.021	17.021	0.000	99	42831	0.4000	0.4008	
90 2-Chlorotoluene	126	17.053	17.054	-0.001	96	39045	0.4000	0.4033	
91 4-Ethyltoluene	105	17.182	17.181	0.001	98	157161	0.4000	0.4053	
92 1,3,5-Trimethylbenzene	120	17.263	17.262	0.001	91	72362	0.4000	0.4009	
93 Alpha Methyl Styrene	118	17.511	17.511	0.000	87	50440	0.4000	0.3512	
94 n-Decane	57	17.598	17.599	-0.001	93	60168	0.4000	0.4055	
95 tert-Butylbenzene	119	17.722	17.721	0.001	90	147503	0.4000	0.4143	
96 1,2,4-Trimethylbenzene	105	17.732	17.735	-0.003	95	134962	0.4000	0.4038	
97 sec-Butylbenzene	105	18.013	18.013	0.000	98	192323	0.4000	0.4158	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	97	78900	0.4000	0.3888	
99 Benzyl chloride	91	18.105	18.104	0.000	97	102099	0.4000	0.3781	
100 1,4-Dichlorobenzene	146	18.110	18.112	-0.002	90	76000	0.4000	0.3854	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	159549	0.4000	0.4177	
102 1,2,3-Trimethylbenzene	105	18.239	18.240	-0.001	99	103719	0.4000	0.4110	
103 Butylcyclohexane	83	18.304	18.305	-0.001	95	103599	0.4000	0.4096	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	90	78457	0.4000	0.3964	
105 2,3-Dihydroindene	117	18.493	18.495	-0.002	93	112724	0.4000	0.3999	
106 Indene	116	18.628	18.632	-0.004	91	75444	0.4000	0.3564	
107 n-Butylbenzene	91	18.649	18.652	-0.003	98	142744	0.4000	0.4068	
108 Undecane	57	19.000	19.000	0.000	87	50871	0.4000	0.3451	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	102719	0.4000	0.3817	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	94	26856	0.4000	0.3379	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	111155	0.4000	0.3637	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.498	-0.002	94	68246	0.4000	0.3642	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.895	0.000	96	80186	0.4000	0.3400	
114 Dodecane	57	20.078	20.078	0.000	92	21967	0.4000	0.2479	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	92	36073	0.4000	0.2719	
116 Naphthalene	128	20.359	20.357	0.002	98	64256	0.4000	0.2622	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	99	34379	0.4000	0.2609	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	95	67724	0.4000	0.3573	
119 1,2,3-Trichlorobenzene	180	20.634	20.631	0.003	93	27762	0.4000	0.2541	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	99	35887	1.25	0.7128	
121 1-Methylnaphthalene	142	21.663	21.664	-0.001	98	27147	1.25	0.6387	
A 124 Toluene Range	1	12.782	(12.752-12.812)		0	271821	0.4000	0.3970	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	266745	0.4000	0.3891	
S 126 Xylenes, Total	100				0		1.20	1.23	
S 127 1,2-Dichloroethene, Total	1				0		0.8000	0.7913	

Reagents:

40L4DNP_00006	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

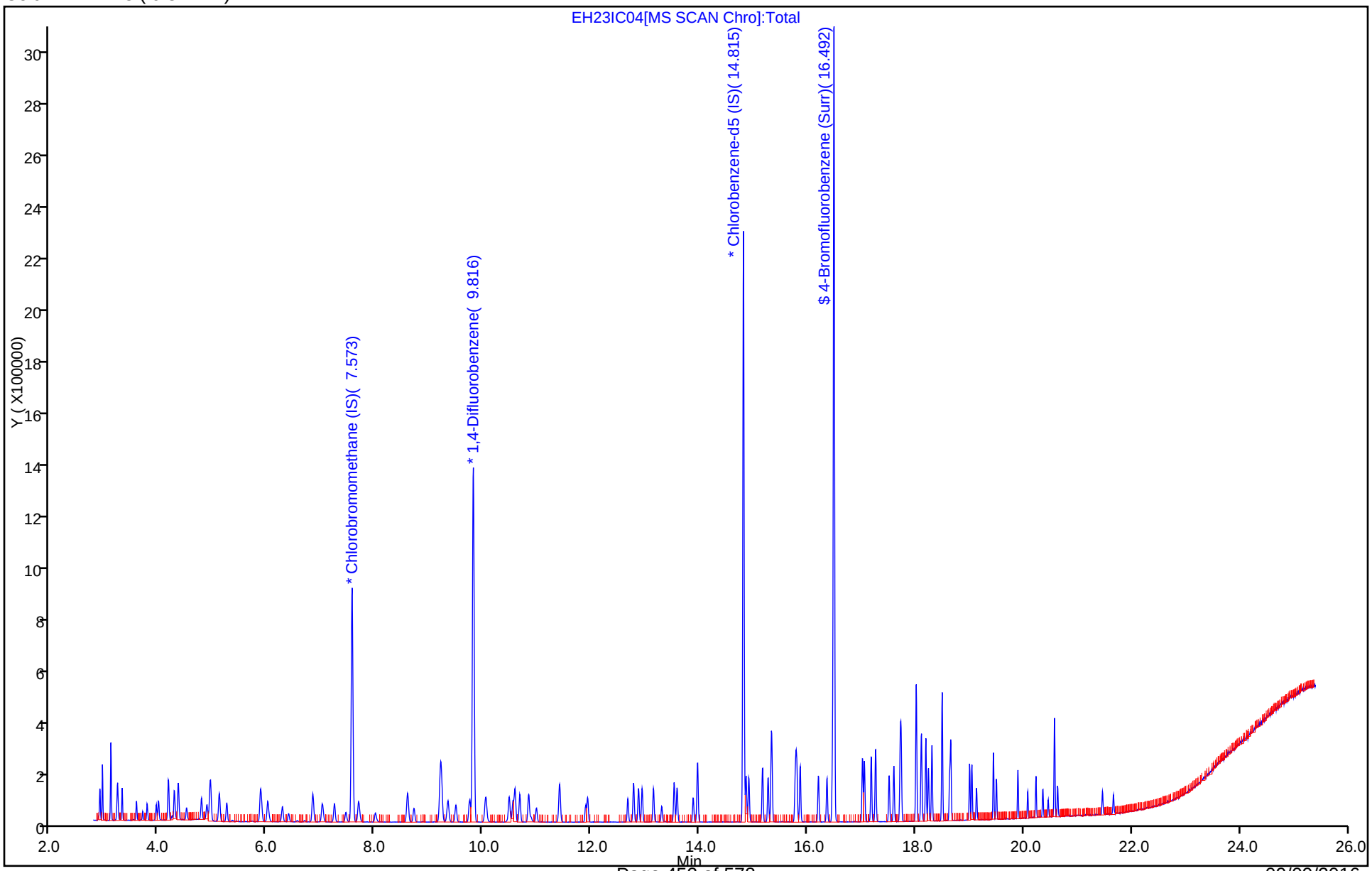
Report Date: 25-Aug-2016 12:59:35 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC04.D

Injection Date:	23-Aug-2016 19:17:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L4			Worklist Smp#:	6
Client ID:					
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)

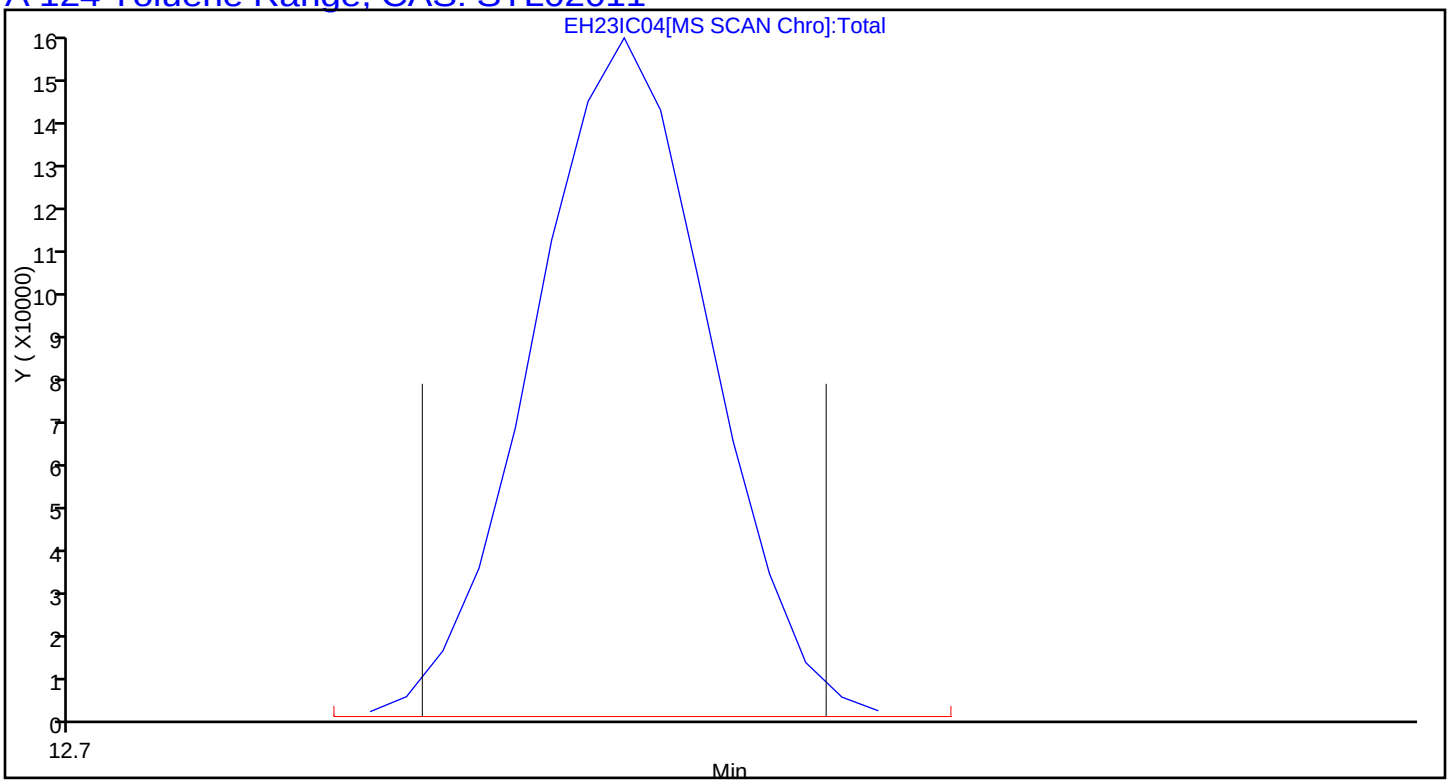


Report Date: 25-Aug-2016 12:59:36 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC04.D				
Injection Date:	23-Aug-2016 19:17:30	Instrument ID:	ME		
Lims ID:	IC L4				
Client ID:					
Operator ID:	403648	ALS Bottle#:	9	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 124 Toluene Range, CAS: STL02011

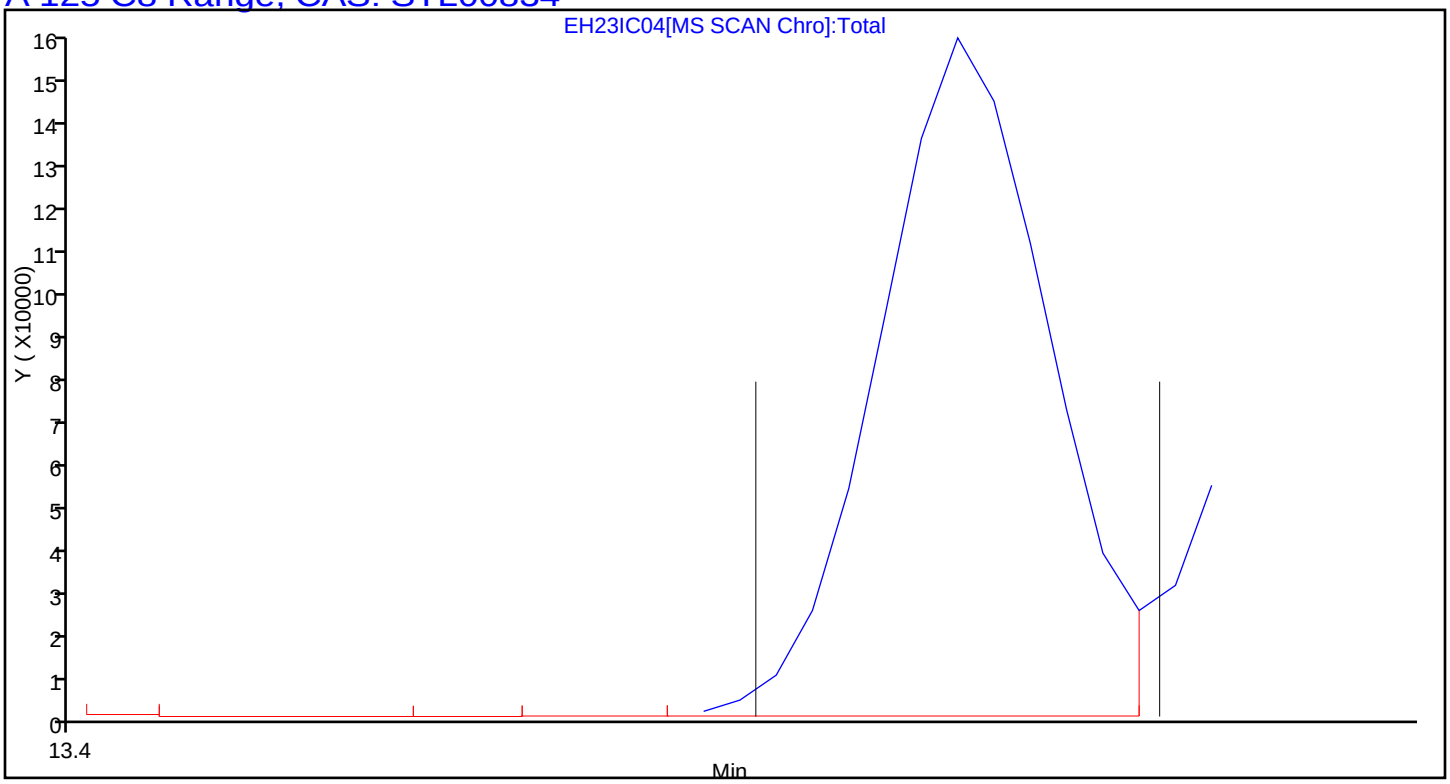


Report Date: 25-Aug-2016 12:59:36 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC04.D				
Injection Date:	23-Aug-2016 19:17:30	Instrument ID:	ME		
Lims ID:	IC L4				
Client ID:					
Operator ID:	403648	ALS Bottle#:	9	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 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC05.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Aug-2016 20:01:30 ALS Bottle#: 10 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052172
Misc. Info.: 140-0003339-007
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:39 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 13:31:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.576	-0.003	73	265768	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.819	-0.003	94	1270566	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1190257	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.492	16.492	0.000	90	978264	4.00	4.02	
6 Chlorodifluoromethane	67	2.903	2.900	0.003	94	31671	1.00	1.00	
7 Propene	41	2.909	2.909	0.000	94	43114	1.00	0.99	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	99	285347	1.00	1.02	
9 Chloromethane	52	3.103	3.102	0.001	99	16758	1.00	0.9339	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.110	-0.002	95	151194	1.00	1.02	
11 Acetaldehyde	44	3.232	3.232	0.000	91	102442	5.01	5.99	
12 Vinyl chloride	62	3.243	3.244	-0.001	98	71324	1.00	1.00	
13 Butane	43	3.319	3.317	0.002	81	75855	1.00	0.9707	
14 Butadiene	54	3.319	3.317	0.002	77	44842	1.00	0.9893	
15 Bromomethane	94	3.583	3.583	0.000	98	80807	1.00	1.00	
16 Chloroethane	64	3.701	3.700	0.001	98	37379	1.00	0.9801	
17 Ethanol	31	3.782	3.786	-0.004	99	94084	5.01	4.99	
18 Vinyl bromide	106	3.950	3.950	0.000	97	77061	1.00	0.99	
19 2-Methylbutane	43	3.993	3.990	0.003	86	55332	1.00	0.9265	
20 Trichlorofluoromethane	101	4.171	4.173	-0.002	99	276442	1.00	1.02	
21 Acrolein	56	4.181	4.186	-0.005	95	15226	1.00	0.8611	
22 Acetonitrile	40	4.241	4.243	-0.002	98	18124	1.00	1.05	
23 Acetone	58	4.278	4.283	-0.005	99	89220	3.01	3.52	
24 Isopropyl alcohol	45	4.354	4.361	-0.007	97	202651	3.01	3.01	
25 Pentane	72	4.359	4.362	-0.003	95	14910	1.00	1.05	
26 Ethyl ether	31	4.505	4.510	-0.005	81	44219	1.00	1.01	
27 1,1-Dichloroethene	96	4.791	4.790	0.001	100	77206	1.00	0.9527	
29 Acrylonitrile	53	4.888	4.891	-0.003	95	32693	1.00	0.9545	
28 2-Methyl-2-propanol	59	4.882	4.892	-0.010	94	109176	1.00	0.99	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.950	-0.003	96	175826	1.00	1.01	
31 Methylene Chloride	84	5.109	5.112	-0.003	79	82064	1.00	0.9844	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.125	5.126	-0.001	88	66473	1.00	0.9848	
33 Carbon disulfide	76	5.254	5.255	-0.001	98	255435	1.00	1.02	
34 trans-1,2-Dichloroethene	96	5.875	5.877	-0.002	96	89328	1.00	1.01	
35 2-Methylpentane	43	5.896	5.895	0.001	87	109529	1.00	1.01	
36 Methyl tert-butyl ether	73	6.009	6.013	-0.004	93	266995	1.00	1.05	
37 1,1-Dichloroethane	63	6.284	6.286	-0.002	99	150055	1.00	1.02	
38 Vinyl acetate	43	6.398	6.401	-0.003	99	139184	1.00	1.04	
39 2-Butanone (MEK)	72	6.840	6.843	-0.003	98	39647	1.00	1.02	
40 Hexane	56	6.851	6.852	-0.001	81	52363	1.00	1.01	
41 Isopropyl ether	45	7.018	7.025	-0.007	89	165774	1.00	1.04	
42 cis-1,2-Dichloroethene	96	7.250	7.249	0.001	92	90478	1.00	1.02	
43 Ethyl acetate	43	7.455	7.459	-0.004	98	109695	1.00	1.06	
44 Chloroform	83	7.589	7.592	-0.003	97	222354	1.00	1.00	
45 Tert-butyl ethyl ether	59	7.692	7.698	-0.006	90	210400	1.00	1.05	
46 Tetrahydrofuran	42	7.994	8.001	-0.007	76	53071	1.00	1.02	
47 1,1,1-Trichloroethane	97	8.603	8.603	0.000	94	253978	1.00	1.02	
48 1,2-Dichloroethane	62	8.716	8.721	-0.005	98	145593	1.00	1.01	
50 Cyclohexane	69	9.202	9.202	0.000	66	42831	1.00	0.99	
54 Thiophene	84	9.207	9.207	0.000	53	157834	1.00	1.00	
51 Benzene	78	9.207	9.209	-0.002	94	258726	1.00	0.99	
49 n-Butanol	31	9.218	9.219	-0.001	39	14208	1.00	0.9091	
52 Carbon tetrachloride	117	9.229	9.230	-0.001	97	256403	1.00	1.02	
53 2,3-Dimethylpentane	71	9.347	9.349	-0.002	84	59803	1.00	0.9859	
55 Tert-amyl methyl ether	73	9.746	9.751	-0.005	97	248836	1.00	1.03	
56 Isooctane	57	10.043	10.049	-0.006	97	300690	1.00	0.99	
57 n-Heptane	71	10.480	10.480	0.000	78	91476	1.00	0.9878	
58 1,2-Dichloropropane	63	10.550	10.551	-0.001	85	79431	1.00	1.02	
59 Trichloroethene	130	10.588	10.590	-0.002	94	112424	1.00	0.9876	
60 Dibromomethane	93	10.674	10.677	-0.003	96	112531	1.00	0.99	
61 Dichlorobromomethane	83	10.841	10.843	-0.002	97	222787	1.00	1.01	
62 1,4-Dioxane	88	10.879	10.884	-0.005	79	35770	1.00	0.99	
63 Methyl methacrylate	41	10.987	10.985	0.002	78	69730	1.00	1.00	
64 Methylcyclohexane	83	11.413	11.414	-0.001	90	195638	1.00	0.9860	
65 4-Methyl-2-pentanone (MIBK	43	11.892	11.896	-0.004	91	98443	1.00	0.9643	
66 cis-1,3-Dichloropropene	75	11.936	11.934	0.002	90	158688	1.00	1.01	
67 trans-1,3-Dichloropropene	75	12.674	12.676	-0.002	93	155761	1.00	1.03	
68 Toluene	91	12.782	12.783	-0.001	94	292256	1.00	1.02	
69 1,1,2-Trichloroethane	83	12.874	12.875	-0.001	98	89240	1.00	1.02	
70 2-Methylthiophene	97	12.939	12.942	-0.003	96	244758	1.00	1.03	
71 3-Methylthiophene	97	13.149	13.152	-0.003	98	239879	1.00	1.03	
72 2-Hexanone	58	13.300	13.303	-0.003	97	56286	1.00	1.01	
73 n-Octane	85	13.532	13.533	-0.001	78	100195	1.00	1.02	
74 Chlorodibromomethane	129	13.591	13.589	0.002	96	191276	1.00	1.04	
75 Ethylene Dibromide	107	13.888	13.888	0.000	98	162823	1.00	1.04	
76 Tetrachloroethene	129	13.963	13.966	-0.003	94	111764	1.00	1.01	
77 Chlorobenzene	112	14.864	14.865	-0.001	91	226397	1.00	1.03	
78 2,3-Dimethylheptane	43	14.912	14.914	-0.002	78	154795	1.00	1.02	
79 Ethylbenzene	91	15.166	15.168	-0.002	99	404807	1.00	1.06	
80 2-Ethylthiophene	97	15.274	15.272	0.002	97	315480	1.00	1.05	
81 m-Xylene & p-Xylene	91	15.333	15.337	-0.004	99	637658	2.00	2.13	
83 Bromoform	173	15.775	15.776	-0.001	95	189843	1.00	1.06	
82 n-Nonane	57	15.791	15.790	0.001	76	134711	1.00	1.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.807	15.807	0.000	96	213035	1.00	1.11	
85 o-Xylene	91	15.867	15.867	0.000	98	333631	1.00	1.06	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.202	-0.001	98	210910	1.00	1.06	
87 1,2,3-Trichloropropane	110	16.363	16.362	0.001	97	75599	1.00	1.06	
88 Isopropylbenzene	105	16.465	16.466	-0.001	97	439412	1.00	1.05	
89 N-Propylbenzene	120	17.021	17.021	0.000	99	115851	1.00	1.08	
90 2-Chlorotoluene	126	17.053	17.054	-0.001	96	102641	1.00	1.05	
91 4-Ethyltoluene	105	17.177	17.181	-0.004	98	430948	1.00	1.10	
92 1,3,5-Trimethylbenzene	120	17.263	17.262	0.001	91	194923	1.00	1.07	
93 Alpha Methyl Styrene	118	17.511	17.511	0.000	88	153984	1.00	1.06	
94 n-Decane	57	17.598	17.599	-0.001	93	166121	1.00	1.11	
95 tert-Butylbenzene	119	17.722	17.721	0.001	88	388192	1.00	1.08	
96 1,2,4-Trimethylbenzene	105	17.732	17.735	-0.003	95	371867	1.00	1.11	
97 sec-Butylbenzene	105	18.013	18.013	0.000	97	513295	1.00	1.10	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	98	219701	1.00	1.08	
99 Benzyl chloride	91	18.105	18.104	0.000	97	299387	1.00	1.10	
100 1,4-Dichlorobenzene	146	18.110	18.112	-0.002	93	212012	1.00	1.07	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	432443	1.00	1.12	
102 1,2,3-Trimethylbenzene	105	18.239	18.240	-0.001	98	280160	1.00	1.10	
103 Butylcyclohexane	83	18.304	18.305	-0.001	95	274151	1.00	1.08	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	91	213558	1.00	1.07	
105 2,3-Dihydroindene	117	18.493	18.495	-0.002	93	310919	1.00	1.10	
106 Indene	116	18.628	18.632	-0.004	92	224053	1.00	1.05	
107 n-Butylbenzene	91	18.655	18.652	0.003	99	413197	1.00	1.17	
108 Undecane	57	19.000	19.000	0.000	86	164093	1.00	1.11	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	305314	1.00	1.13	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	93	86056	1.00	1.08	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	347469	1.00	1.13	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.498	-0.002	94	209526	1.00	1.11	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.895	0.000	96	264067	1.00	1.11	
114 Dodecane	57	20.078	20.078	0.000	91	77719	1.00	0.8713	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	93	123778	1.00	0.9266	
116 Naphthalene	128	20.359	20.357	0.002	98	229592	1.00	0.9307	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	99	109620	1.00	0.8263	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	95	212592	1.00	1.11	
119 1,2,3-Trichlorobenzene	180	20.628	20.631	-0.003	93	93044	1.00	0.8457	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	98	149931	3.13	2.96	
121 1-Methylnaphthalene	142	21.663	21.664	-0.001	99	131902	3.13	3.08	
A 124 Toluene Range	1	12.782	(12.752-12.812)		0	697680	1.00	1.02	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	688848	1.00	1.00	
S 126 Xylenes, Total	100				0		3.00	3.20	
S 127 1,2-Dichloroethene, Total	1				0		2.00	2.03	

Reagents:

40L5DNP_00006	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

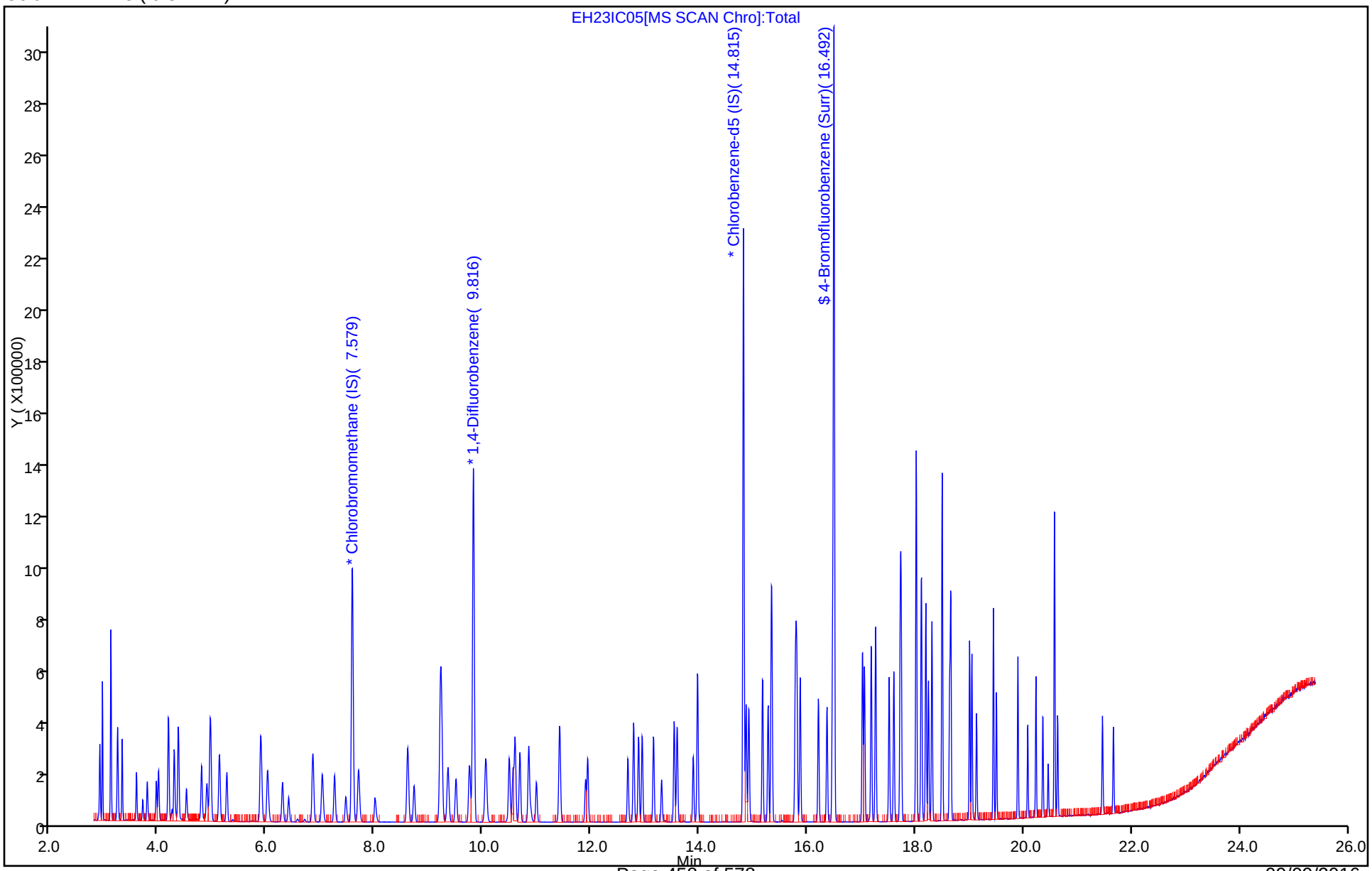
Report Date: 25-Aug-2016 12:59:40 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC05.D

Injection Date:	23-Aug-2016 20:01:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L5			Worklist Smp#:	7
Client ID:					
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)

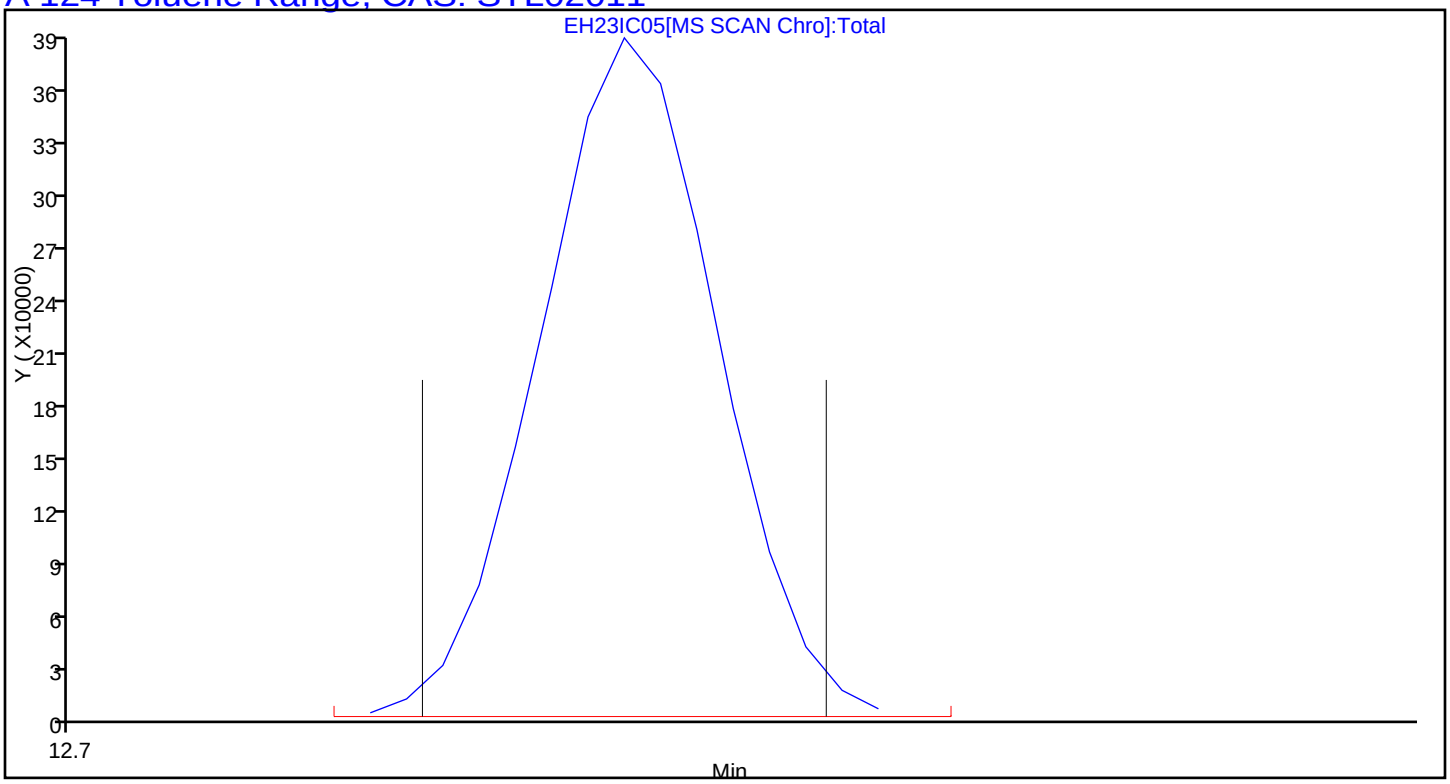


Report Date: 25-Aug-2016 12:59:40 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC05.D				
Injection Date:	23-Aug-2016 20:01:30	Instrument ID:	ME		
Lims ID:	IC L5				
Client ID:					
Operator ID:	403648	ALS Bottle#:	10	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 124 Toluene Range, CAS: STL02011

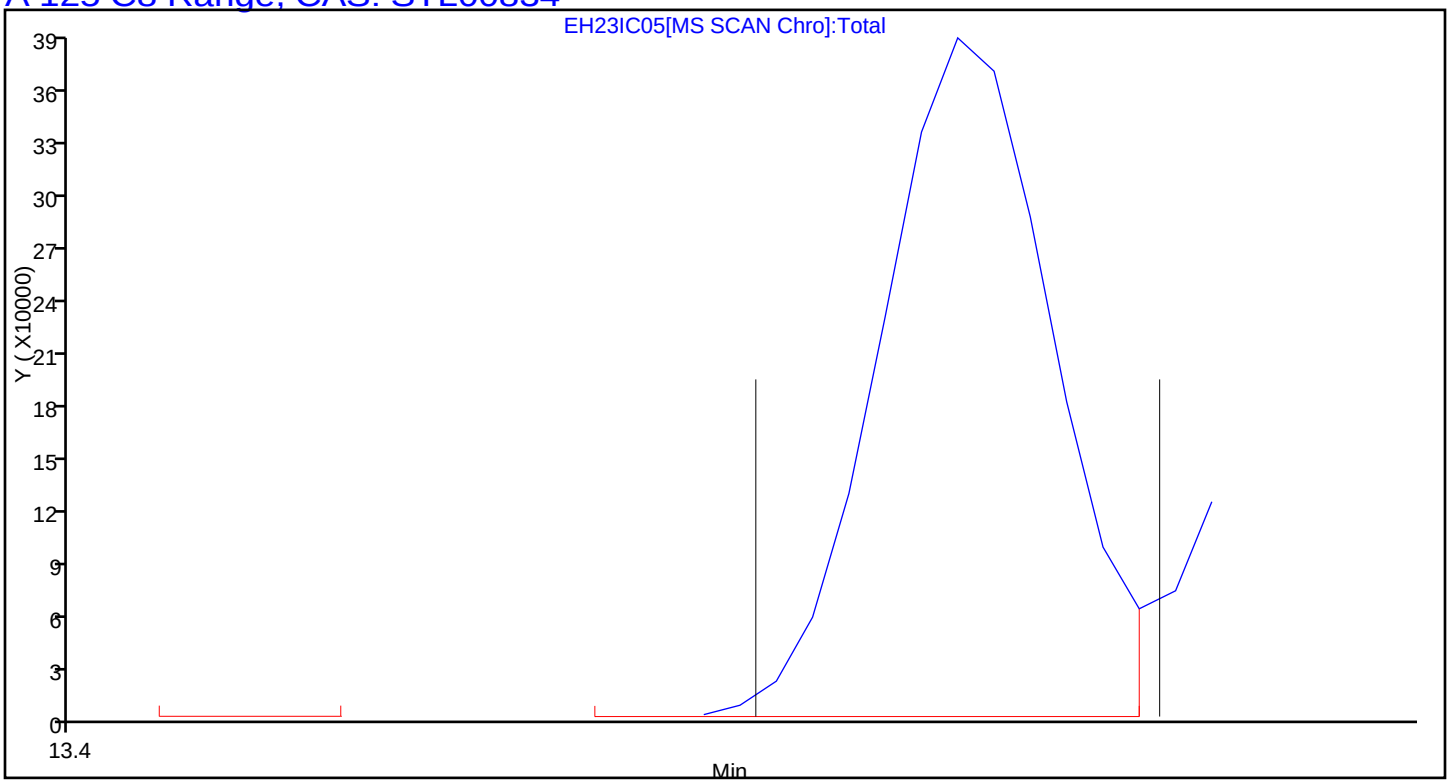


Report Date: 25-Aug-2016 12:59:40 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC05.D				
Injection Date:	23-Aug-2016 20:01:30	Instrument ID:	ME		
Lims ID:	IC L5				
Client ID:					
Operator ID:	403648	ALS Bottle#:	10	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 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC06.D
Lims ID: ICIS L6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 23-Aug-2016 20:46:30 ALS Bottle#: 11 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052170
Misc. Info.: 140-0003339-008
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:43 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 10:09:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.576	-0.003	79	269675	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.819	-0.003	94	1287098	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1211436	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.492	16.492	0.000	90	998139	4.00	4.03	
6 Chlorodifluoromethane	67	2.898	2.900	-0.002	95	61822	2.00	1.93	
7 Propene	41	2.909	2.909	0.000	95	84095	2.00	1.91	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	99	570285	2.00	2.01	
9 Chloromethane	52	3.103	3.102	0.001	98	31364	2.00	1.72	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.110	-0.002	95	301658	2.00	2.00	
11 Acetaldehyde	44	3.232	3.232	0.000	91	160626	9.99	9.26	
12 Vinyl chloride	62	3.243	3.244	-0.001	99	140638	2.00	1.93	
13 Butane	43	3.313	3.317	-0.004	81	149120	2.00	1.88	
14 Butadiene	54	3.313	3.317	-0.004	78	86814	2.00	1.89	
15 Bromomethane	94	3.583	3.583	0.000	98	156847	2.00	1.91	
16 Chloroethane	64	3.696	3.700	-0.004	98	73166	2.00	1.89	
17 Ethanol	31	3.782	3.786	-0.004	99	179028	9.99	9.36	
18 Vinyl bromide	106	3.950	3.950	0.000	97	151363	2.00	1.92	
19 2-Methylbutane	43	3.987	3.990	-0.003	85	109370	2.00	1.80	
20 Trichlorofluoromethane	101	4.171	4.173	-0.002	99	531022	2.00	1.93	
21 Acrolein	56	4.181	4.186	-0.005	97	35585	2.00	1.98	
22 Acetonitrile	40	4.241	4.243	-0.002	99	31720	2.00	1.82	
23 Acetone	58	4.278	4.283	-0.005	98	147307	5.99	5.73	
24 Isopropyl alcohol	45	4.354	4.361	-0.007	95	396373	5.99	5.80	
25 Pentane	72	4.359	4.362	-0.003	96	28100	2.00	1.94	
26 Ethyl ether	31	4.505	4.510	-0.005	82	87130	2.00	1.96	
27 1,1-Dichloroethene	96	4.785	4.790	-0.005	100	150972	2.00	1.84	
29 Acrylonitrile	53	4.888	4.891	-0.003	93	63707	2.00	1.83	
28 2-Methyl-2-propanol	59	4.882	4.892	-0.010	93	221435	2.00	1.98	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.950	-0.003	96	344561	2.00	1.94	
31 Methylene Chloride	84	5.114	5.112	0.002	79	158716	2.00	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.125	5.126	-0.001	87	132672	2.00	1.94	
33 Carbon disulfide	76	5.254	5.255	-0.001	98	504376	2.00	1.99	
34 trans-1,2-Dichloroethene	96	5.880	5.877	0.003	96	177199	2.00	1.98	
35 2-Methylpentane	43	5.896	5.895	0.001	85	211749	2.00	1.92	
36 Methyl tert-butyl ether	73	6.004	6.013	-0.009	93	524448	2.00	2.03	
37 1,1-Dichloroethane	63	6.284	6.286	-0.002	99	293707	2.00	1.96	
38 Vinyl acetate	43	6.398	6.401	-0.003	99	276789	2.00	2.04	
39 2-Butanone (MEK)	72	6.834	6.843	-0.009	99	76143	2.00	1.94	
40 Hexane	56	6.851	6.852	-0.001	84	100815	2.00	1.91	
41 Isopropyl ether	45	7.018	7.025	-0.007	90	331632	2.00	2.05	
42 cis-1,2-Dichloroethene	96	7.250	7.249	0.001	92	180059	2.00	1.99	
43 Ethyl acetate	43	7.455	7.459	-0.004	98	219344	2.00	2.08	
44 Chloroform	83	7.589	7.592	-0.003	97	442178	2.00	1.97	
45 Tert-butyl ethyl ether	59	7.692	7.698	-0.006	91	417978	2.00	2.05	
46 Tetrahydrofuran	42	7.994	8.001	-0.007	76	101819	2.00	1.93	
47 1,1,1-Trichloroethane	97	8.603	8.603	0.000	94	503011	2.00	2.00	
48 1,2-Dichloroethane	62	8.722	8.721	0.001	98	288122	2.00	1.97	
50 Cyclohexane	69	9.202	9.202	0.000	94	83943	2.00	1.92	
54 Thiophene	84	9.207	9.207	0.000	63	312594	2.00	1.96	
51 Benzene	78	9.207	9.209	-0.002	95	508450	2.00	1.93	
49 n-Butanol	31	9.212	9.219	-0.007	59	29976	2.00	1.89	
52 Carbon tetrachloride	117	9.229	9.230	-0.001	97	508933	2.00	2.00	
53 2,3-Dimethylpentane	71	9.347	9.349	-0.002	85	117785	2.00	1.92	
55 Tert-amyl methyl ether	73	9.741	9.751	-0.010	96	504302	2.00	2.06	
56 Isooctane	57	10.048	10.049	-0.001	97	596371	2.00	1.95	
57 n-Heptane	71	10.480	10.480	0.000	79	181150	2.00	1.93	
58 1,2-Dichloropropane	63	10.550	10.551	-0.001	84	156418	2.00	1.98	
59 Trichloroethene	130	10.588	10.590	-0.002	93	224706	2.00	1.95	
60 Dibromomethane	93	10.679	10.677	0.002	96	224186	2.00	1.95	
61 Dichlorobromomethane	83	10.841	10.843	-0.002	97	455767	2.00	2.04	
62 1,4-Dioxane	88	10.873	10.884	-0.011	79	75001	2.00	2.05	
63 Methyl methacrylate	41	10.981	10.985	-0.004	78	145099	2.00	2.06	
64 Methylcyclohexane	83	11.413	11.414	-0.001	90	389263	2.00	1.94	
65 4-Methyl-2-pentanone (MIBK	43	11.893	11.896	-0.004	90	215605	2.00	2.08	
66 cis-1,3-Dichloropropene	75	11.930	11.934	-0.004	90	321547	2.00	2.01	
67 trans-1,3-Dichloropropene	75	12.674	12.676	-0.002	93	315429	2.00	2.06	
68 Toluene	91	12.782	12.783	-0.001	94	580354	2.00	2.00	
69 1,1,2-Trichloroethane	83	12.874	12.875	-0.001	98	177178	2.00	1.99	
70 2-Methylthiophene	97	12.944	12.942	0.002	96	497602	2.00	2.06	
71 3-Methylthiophene	97	13.149	13.152	-0.003	98	484667	2.00	2.05	
72 2-Hexanone	58	13.300	13.303	-0.003	98	122120	2.00	2.16	
73 n-Octane	85	13.532	13.533	-0.001	78	201515	2.00	2.02	
74 Chlorodibromomethane	129	13.586	13.589	-0.003	97	401579	2.00	2.14	
75 Ethylene Dibromide	107	13.888	13.888	0.000	98	330814	2.00	2.08	
76 Tetrachloroethene	129	13.963	13.966	-0.003	94	222437	2.00	1.97	
77 Chlorobenzene	112	14.864	14.865	-0.001	91	448078	2.00	1.99	
78 2,3-Dimethylheptane	43	14.912	14.914	-0.002	76	303525	2.00	1.96	
79 Ethylbenzene	91	15.166	15.168	-0.002	98	801501	2.00	2.06	
80 2-Ethylthiophene	97	15.274	15.272	0.002	98	643748	2.00	2.11	
81 m-Xylene & p-Xylene	91	15.338	15.337	0.001	99	1264106	3.99	4.16	
83 Bromoform	173	15.775	15.776	-0.001	96	410628	2.00	2.25	
82 n-Nonane	57	15.791	15.790	0.001	77	269364	2.00	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.807	15.807	0.000	96	442128	2.00	2.26	
85 o-Xylene	91	15.867	15.867	0.000	98	660323	2.00	2.07	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.202	-0.001	99	434322	2.00	2.14	
87 1,2,3-Trichloropropane	110	16.363	16.362	0.001	97	150393	2.00	2.07	
88 Isopropylbenzene	105	16.465	16.466	-0.001	97	872303	2.00	2.05	
89 N-Propylbenzene	120	17.021	17.021	0.000	99	232788	2.00	2.13	
90 2-Chlorotoluene	126	17.053	17.054	-0.001	96	204257	2.00	2.06	
91 4-Ethyltoluene	105	17.182	17.181	0.001	98	868312	2.00	2.19	
92 1,3,5-Trimethylbenzene	120	17.263	17.262	0.001	91	390767	2.00	2.11	
93 Alpha Methyl Styrene	118	17.511	17.511	0.000	86	329584	2.00	2.24	
94 n-Decane	57	17.598	17.599	-0.001	94	327049	2.00	2.15	
95 tert-Butylbenzene	119	17.716	17.721	-0.005	90	777364	2.00	2.13	
96 1,2,4-Trimethylbenzene	105	17.732	17.735	-0.003	96	741071	2.00	2.16	
97 sec-Butylbenzene	105	18.013	18.013	0.000	97	1018995	2.00	2.15	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	97	449629	2.00	2.16	
99 Benzyl chloride	91	18.105	18.104	0.001	97	631803	2.00	2.28	
100 1,4-Dichlorobenzene	146	18.110	18.112	-0.002	91	440987	2.00	2.18	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	868508	2.00	2.22	
102 1,2,3-Trimethylbenzene	105	18.239	18.240	-0.001	98	556747	2.00	2.15	
103 Butylcyclohexane	83	18.304	18.305	-0.001	95	538465	2.00	2.08	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	90	436557	2.00	2.15	
105 2,3-Dihydroindene	117	18.493	18.495	-0.002	93	624298	2.00	2.16	
106 Indene	116	18.633	18.632	0.001	93	469235	2.00	2.16	
107 n-Butylbenzene	91	18.649	18.652	-0.003	98	831941	2.00	2.31	
108 Undecane	57	19.000	19.000	0.000	86	342623	2.00	2.27	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	616989	2.00	2.24	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	94	196098	2.00	2.41	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	724740	2.00	2.31	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.498	-0.002	94	443730	2.00	2.31	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.895	0.000	96	573073	2.00	2.37	
114 Dodecane	57	20.078	20.078	0.000	92	179885	2.00	1.98	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	93	305159	2.00	2.24	
116 Naphthalene	128	20.353	20.357	-0.004	98	582551	2.00	2.32	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	99	266068	2.00	1.97	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	95	438302	2.00	2.26	
119 1,2,3-Trichlorobenzene	180	20.628	20.631	-0.003	93	222221	2.00	1.98	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	99	328115	6.24	6.36	
121 1-Methylnaphthalene	142	21.663	21.664	-0.001	99	277982	6.24	6.38	
A 124 Toluene Range	1	12.782	(12.752-12.812)		0	1388876	2.00	1.99	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	1374344	2.00	1.97	
S 126 Xylenes, Total	100				0		5.99	6.23	
S 127 1,2-Dichloroethene, Total	1				0		3.99	3.98	

Reagents:

40L6DNP_00007	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

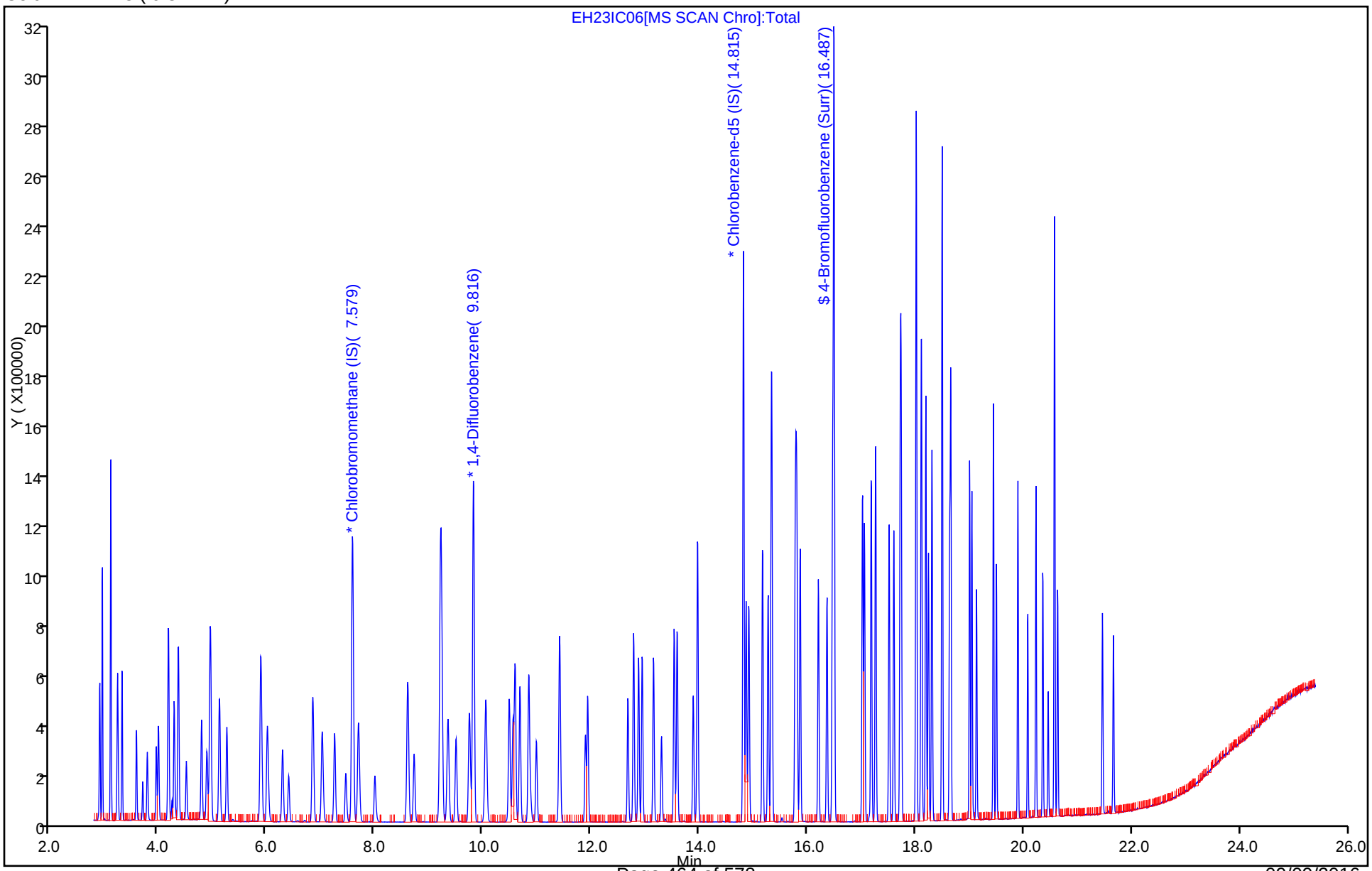
Report Date: 25-Aug-2016 12:59:44 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC06.D

Injection Date:	23-Aug-2016 20:46:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	ICIS L6			Worklist Smp#:	8
Client ID:					
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)

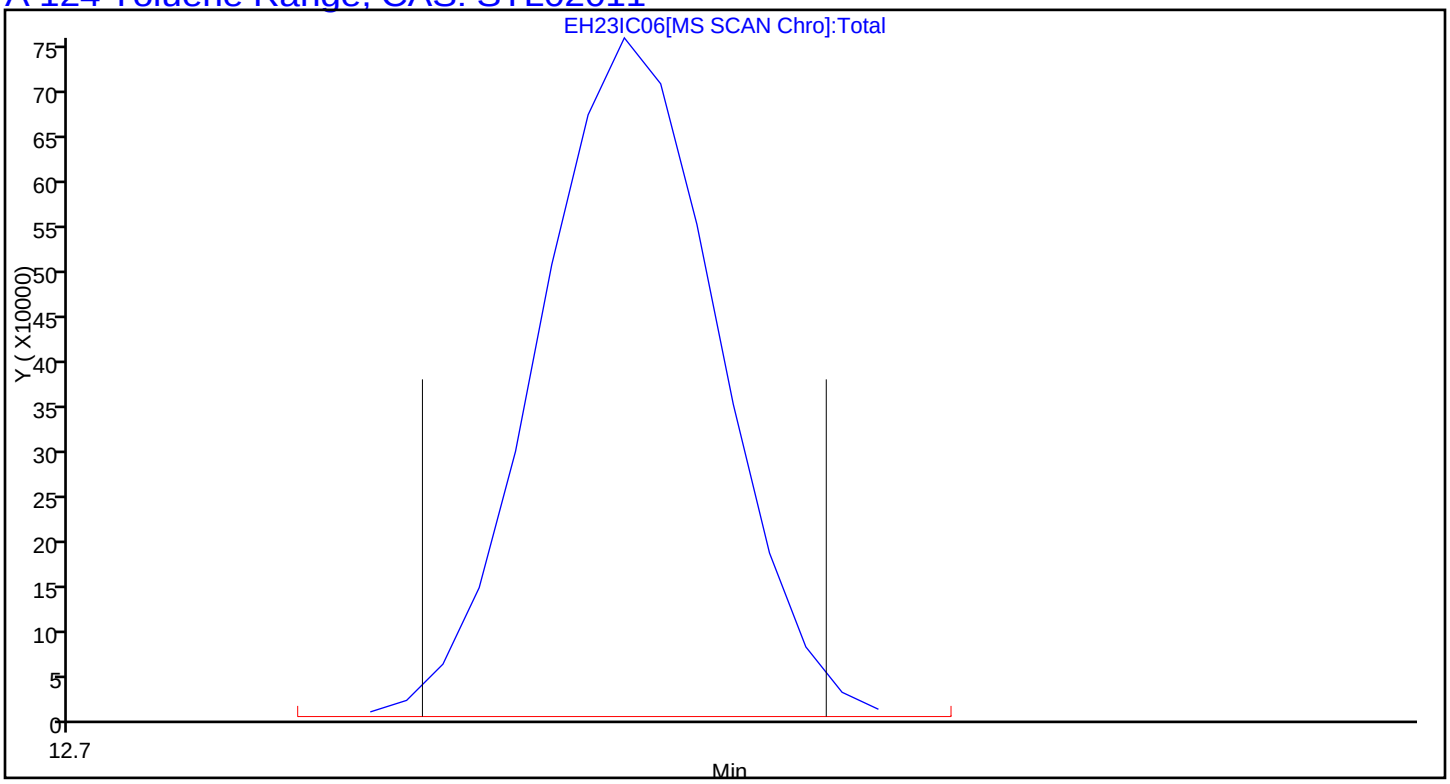


Report Date: 25-Aug-2016 12:59:44 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC06.D				
Injection Date:	23-Aug-2016 20:46:30	Instrument ID:	ME		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	403648	ALS Bottle#:	11	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 124 Toluene Range, CAS: STL02011

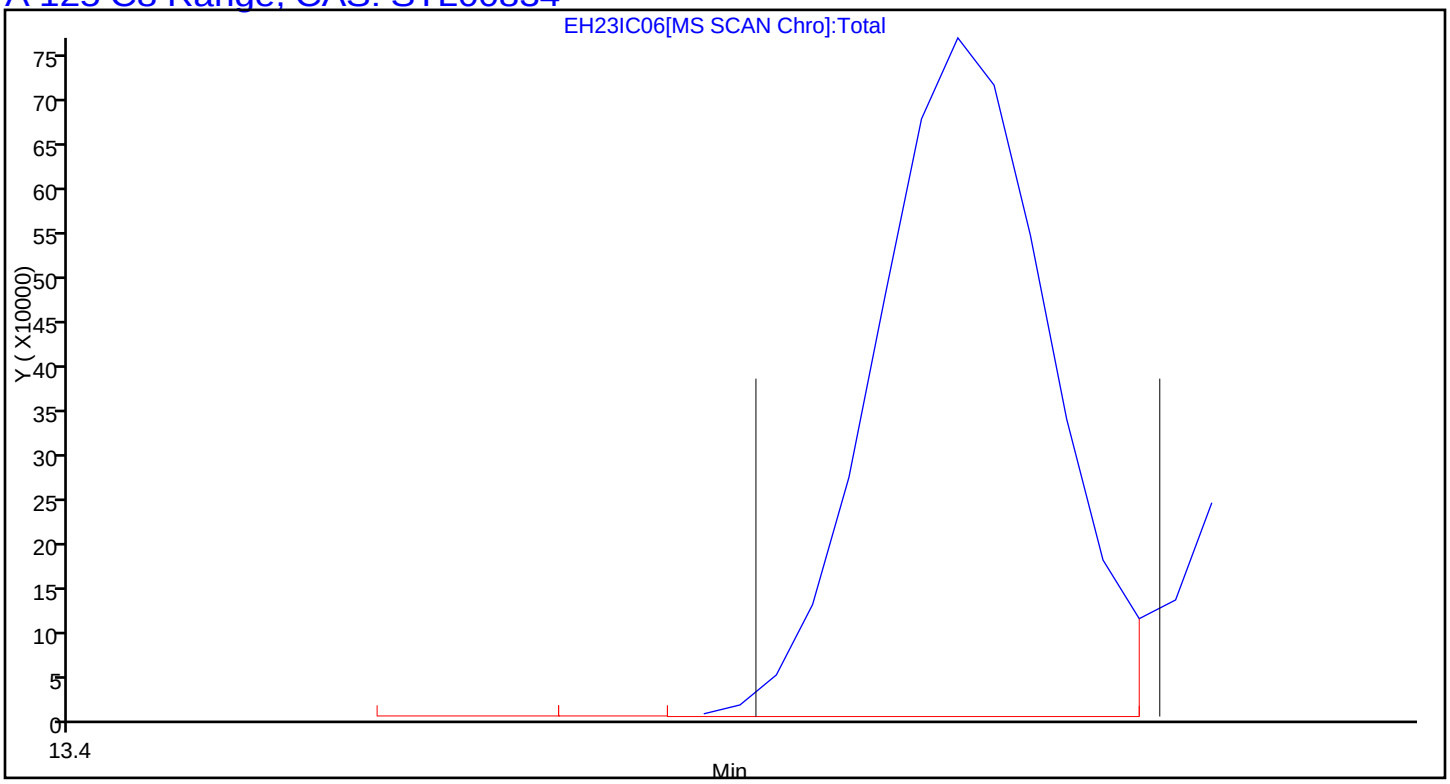


Report Date: 25-Aug-2016 12:59:44 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC06.D				
Injection Date:	23-Aug-2016 20:46:30	Instrument ID:	ME		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	403648	ALS Bottle#:	11	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 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC07.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Aug-2016 21:31:30 ALS Bottle#: 12 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052169
Misc. Info.: 140-0003339-009
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:48 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 13:32:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.579	7.576	0.003	80	266164	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.822	9.819	0.003	94	1239418	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1158632	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.492	16.492	0.000	90	941828	4.00	3.97	
6 Chlorodifluoromethane	67	2.898	2.900	-0.002	94	122753	4.00	3.89	
7 Propene	41	2.909	2.909	0.000	95	164168	4.00	3.78	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	99	1065086	4.00	3.81	
9 Chloromethane	52	3.098	3.102	-0.004	99	61884	4.00	3.44	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.110	-0.002	95	536115	4.00	3.60	
11 Acetaldehyde	44	3.232	3.232	0.000	91	298221	20.0	17.4	
12 Vinyl chloride	62	3.243	3.244	-0.001	99	280576	4.00	3.91	
13 Butane	43	3.313	3.317	-0.004	82	297557	4.00	3.80	
14 Butadiene	54	3.313	3.317	-0.004	77	174350	4.00	3.84	
15 Bromomethane	94	3.583	3.583	0.000	98	316269	4.00	3.89	
16 Chloroethane	64	3.701	3.700	0.001	99	144362	4.00	3.78	
17 Ethanol	31	3.788	3.786	0.002	99	344174	20.0	18.2	
18 Vinyl bromide	106	3.949	3.950	-0.001	98	304097	4.00	3.92	
19 2-Methylbutane	43	3.987	3.990	-0.003	86	218301	4.00	3.65	
20 Trichlorofluoromethane	101	4.176	4.173	0.003	99	1051244	4.00	3.88	
21 Acrolein	56	4.187	4.186	0.001	97	65676	4.00	3.71	
22 Acetonitrile	40	4.241	4.243	-0.002	98	62514	4.00	3.63	
23 Acetone	58	4.278	4.283	-0.005	98	262456	12.0	10.3	
24 Isopropyl alcohol	45	4.359	4.361	-0.002	80	752605	12.0	11.2	
25 Pentane	72	4.365	4.362	0.003	76	58677	4.00	4.11	
26 Ethyl ether	31	4.505	4.510	-0.005	82	163685	4.00	3.72	
27 1,1-Dichloroethene	96	4.785	4.790	-0.005	99	305462	4.00	3.76	
29 Acrylonitrile	53	4.893	4.891	0.002	95	118033	4.00	3.44	
28 2-Methyl-2-propanol	59	4.882	4.892	-0.010	93	426365	4.00	3.87	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.950	-0.003	96	671371	4.00	3.84	
31 Methylene Chloride	84	5.114	5.112	0.002	78	302156	4.00	3.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.125	5.126	-0.001	88	254777	4.00	3.77	
33 Carbon disulfide	76	5.254	5.255	-0.001	98	985401	4.00	3.93	
34 trans-1,2-Dichloroethene	96	5.880	5.877	0.003	95	344048	4.00	3.90	
35 2-Methylpentane	43	5.891	5.895	-0.004	85	407193	4.00	3.73	
36 Methyl tert-butyl ether	73	6.004	6.013	-0.009	93	944686	4.00	3.70	
37 1,1-Dichloroethane	63	6.290	6.286	0.004	99	565390	4.00	3.82	
38 Vinyl acetate	43	6.398	6.401	-0.003	99	516154	4.00	3.86	
39 2-Butanone (MEK)	72	6.834	6.843	-0.009	98	134374	4.00	3.46	
40 Hexane	56	6.851	6.852	-0.001	87	197120	4.00	3.79	
41 Isopropyl ether	45	7.018	7.025	-0.007	89	592024	4.00	3.70	
42 cis-1,2-Dichloroethene	96	7.250	7.249	0.001	91	348332	4.00	3.91	
43 Ethyl acetate	43	7.455	7.459	-0.004	98	385530	4.00	3.70	
44 Chloroform	83	7.595	7.592	0.003	95	845620	4.00	3.81	
45 Tert-butyl ethyl ether	59	7.692	7.698	-0.006	91	752929	4.00	3.75	
46 Tetrahydrofuran	42	7.988	8.001	-0.013	76	185923	4.00	3.57	
47 1,1,1-Trichloroethane	97	8.603	8.603	0.000	93	962972	4.00	3.87	
48 1,2-Dichloroethane	62	8.722	8.721	0.001	98	537769	4.00	3.82	
50 Cyclohexane	69	9.202	9.202	0.000	95	163307	4.00	3.89	
54 Thiophene	84	9.202	9.207	-0.005	65	597290	4.00	3.89	
51 Benzene	78	9.212	9.209	0.003	94	951416	4.00	3.75	
49 n-Butanol	31	9.207	9.219	-0.012	69	63903	4.00	4.19	
52 Carbon tetrachloride	117	9.229	9.230	-0.001	97	974957	4.00	3.98	
53 2,3-Dimethylpentane	71	9.347	9.349	-0.002	85	227817	4.00	3.85	
55 Tert-amyl methyl ether	73	9.741	9.751	-0.010	96	895818	4.00	3.82	
56 Isooctane	57	10.048	10.049	-0.001	97	1149309	4.00	3.89	
57 n-Heptane	71	10.480	10.480	0.000	78	350840	4.00	3.88	
58 1,2-Dichloropropane	63	10.550	10.551	-0.001	84	298142	4.00	3.93	
59 Trichloroethene	130	10.593	10.590	0.003	96	436756	4.00	3.93	
60 Dibromomethane	93	10.679	10.677	0.002	96	434049	4.00	3.92	
61 Dichlorobromomethane	83	10.841	10.843	-0.002	97	890002	4.00	4.13	
62 1,4-Dioxane	88	10.873	10.884	-0.011	80	140622	4.00	4.00	
63 Methyl methacrylate	41	10.981	10.985	-0.004	78	259190	4.00	3.83	
64 Methylcyclohexane	83	11.413	11.414	-0.001	91	753857	4.00	3.90	
65 4-Methyl-2-pentanone (MIBK	43	11.892	11.896	-0.004	91	390128	4.00	3.92	
66 cis-1,3-Dichloropropene	75	11.936	11.934	0.002	90	607644	4.00	3.95	
67 trans-1,3-Dichloropropene	75	12.674	12.676	-0.002	93	604586	4.00	4.13	
68 Toluene	91	12.782	12.783	-0.001	94	1094823	4.00	3.94	
69 1,1,2-Trichloroethane	83	12.874	12.875	-0.001	98	338754	4.00	3.97	
70 2-Methylthiophene	97	12.944	12.942	0.002	96	937085	4.00	4.06	
71 3-Methylthiophene	97	13.154	13.152	0.002	98	912530	4.00	4.03	
72 2-Hexanone	58	13.300	13.303	-0.003	98	224945	4.00	4.16	
73 n-Octane	85	13.532	13.533	-0.001	78	390371	4.00	4.09	
74 Chlorodibromomethane	129	13.591	13.589	0.002	96	794467	4.00	4.43	
75 Ethylene Dibromide	107	13.888	13.888	0.000	98	634861	4.00	4.17	
76 Tetrachloroethene	129	13.963	13.966	-0.003	95	431359	4.00	3.99	
77 Chlorobenzene	112	14.864	14.865	-0.001	91	854251	4.00	3.98	
78 2,3-Dimethylheptane	43	14.912	14.914	-0.002	76	583942	4.00	3.95	
79 Ethylbenzene	91	15.171	15.168	0.003	98	1482682	4.00	3.98	
80 2-Ethylthiophene	97	15.273	15.272	0.001	97	1189105	4.00	4.08	
81 m-Xylene & p-Xylene	91	15.338	15.337	0.001	99	2293730	8.00	7.89	
83 Bromoform	173	15.775	15.776	-0.001	96	827421	4.00	4.73	
82 n-Nonane	57	15.791	15.790	0.001	77	510303	4.00	4.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.807	15.807	0.000	96	839948	4.00	4.48	
85 o-Xylene	91	15.867	15.867	0.000	98	1211234	4.00	3.97	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.202	-0.001	99	791030	4.00	4.07	
87 1,2,3-Trichloropropane	110	16.363	16.362	0.001	97	273751	4.00	3.94	
88 Isopropylbenzene	105	16.465	16.466	-0.001	97	1584733	4.00	3.89	
89 N-Propylbenzene	120	17.021	17.021	0.000	99	424172	4.00	4.05	
90 2-Chlorotoluene	126	17.053	17.054	-0.001	96	382213	4.00	4.03	
91 4-Ethyltoluene	105	17.182	17.181	0.001	98	1559536	4.00	4.10	
92 1,3,5-Trimethylbenzene	120	17.263	17.262	0.001	92	712511	4.00	4.03	
93 Alpha Methyl Styrene	118	17.511	17.511	0.000	87	634614	4.00	4.51	
94 n-Decane	57	17.598	17.599	-0.001	94	600636	4.00	4.13	
95 tert-Butylbenzene	119	17.722	17.721	0.001	90	1380562	4.00	3.96	
96 1,2,4-Trimethylbenzene	105	17.738	17.735	0.003	96	1326106	4.00	4.05	
97 sec-Butylbenzene	105	18.013	18.013	0.000	97	1807431	4.00	3.99	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	98	832738	4.00	4.19	
99 Benzyl chloride	91	18.104	18.104	0.000	97	1193451	4.00	4.51	
100 1,4-Dichlorobenzene	146	18.115	18.112	0.003	92	824733	4.00	4.27	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	1535240	4.00	4.10	
102 1,2,3-Trimethylbenzene	105	18.239	18.240	-0.001	98	999985	4.00	4.04	
103 Butylcyclohexane	83	18.304	18.305	-0.001	95	989255	4.00	3.99	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	91	800951	4.00	4.13	
105 2,3-Dihydroindene	117	18.493	18.495	-0.002	93	1135862	4.00	4.11	
106 Indene	116	18.633	18.632	0.001	91	865612	4.00	4.17	
107 n-Butylbenzene	91	18.655	18.652	0.002	98	1449313	4.00	4.21	
108 Undecane	57	19.000	19.000	0.000	86	617284	4.00	4.27	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	1082391	4.00	4.10	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	94	368272	4.00	4.73	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	1284194	4.00	4.29	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.498	-0.002	94	793534	4.00	4.32	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.895	0.000	96	1046682	4.00	4.53	
114 Dodecane	57	20.078	20.078	0.000	92	427564	4.00	4.92	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	94	665315	4.00	5.12	
116 Naphthalene	128	20.358	20.357	0.001	98	1290008	4.00	5.37	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	99	663992	4.00	5.14	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	96	808993	4.00	4.36	
119 1,2,3-Trichlorobenzene	180	20.628	20.631	-0.003	94	556933	4.00	5.20	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	99	775394	12.5	15.7	
121 1-Methylnaphthalene	142	21.663	21.664	-0.001	99	646523	12.5	15.5	
A 124 Toluene Range	1	12.782	(12.752-12.812)		0	2611091	4.00	3.89	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	2662409	4.00	3.97	
S 126 Xylenes, Total	100				0		12.0	11.9	
S 127 1,2-Dichloroethene, Total	1				0		8.00	7.81	

Reagents:

40L7DNP_00006	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

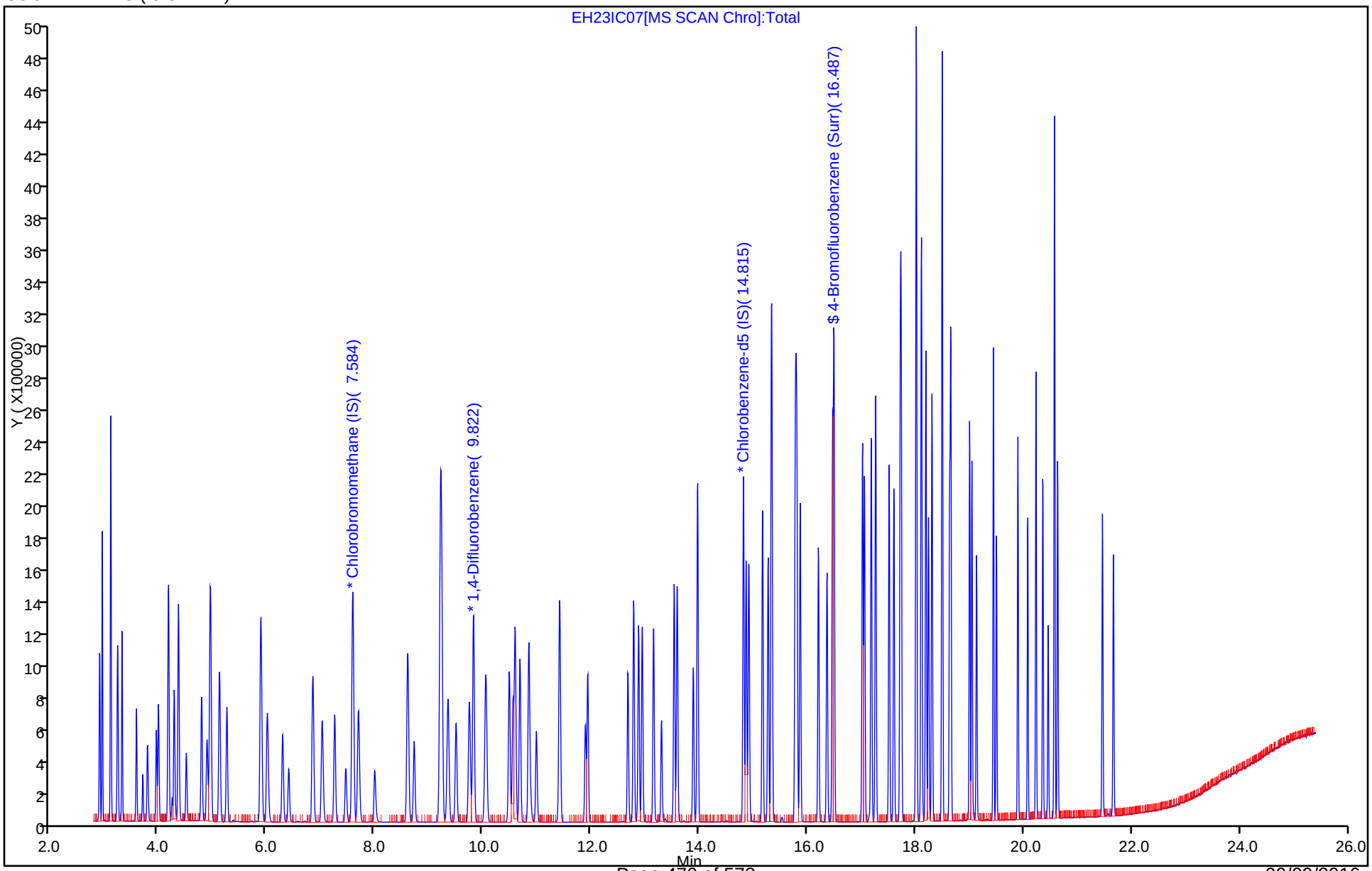
Report Date: 25-Aug-2016 12:59:49 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC07.D

Injection Date:	23-Aug-2016 21:31:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L7			Worklist Smp#:	9
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)

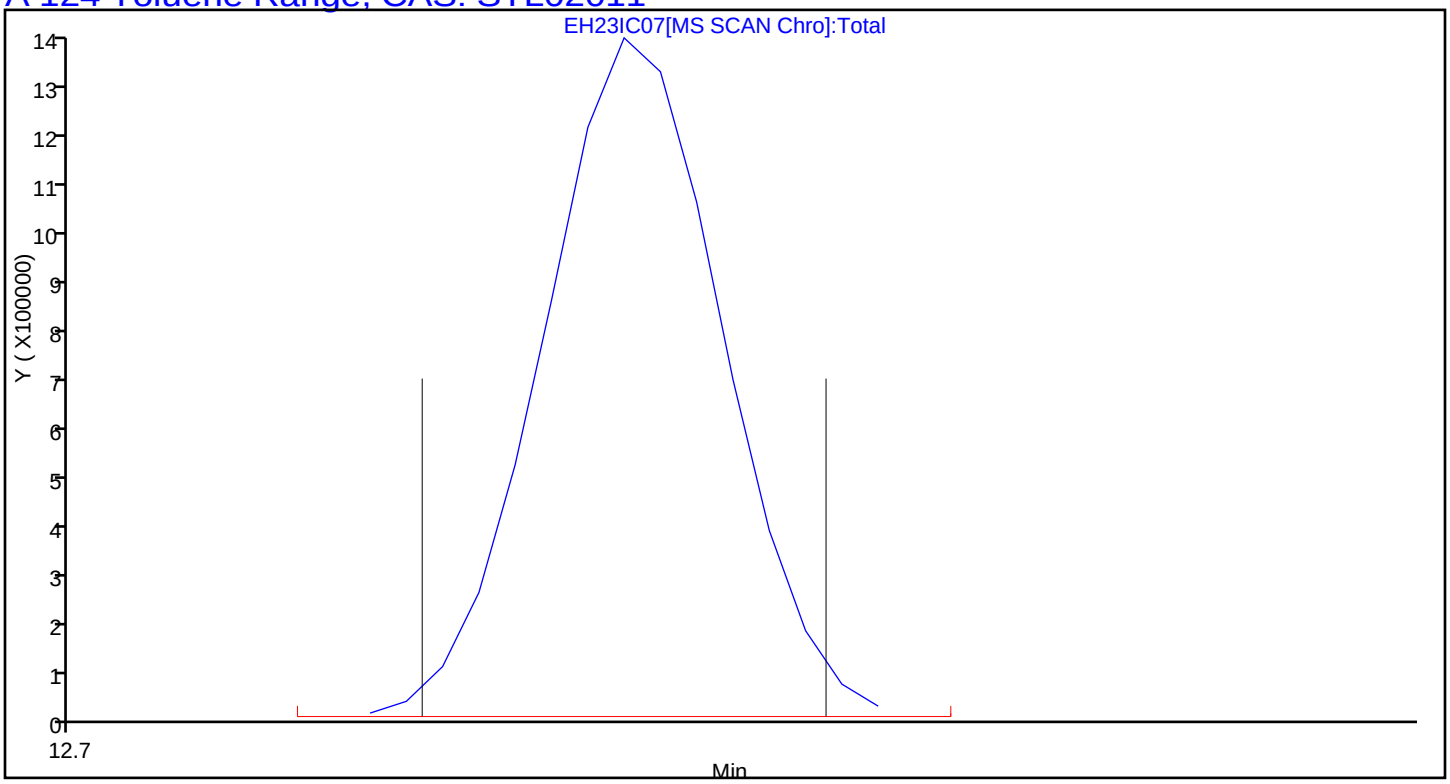


Report Date: 25-Aug-2016 12:59:49 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC07.D				
Injection Date:	23-Aug-2016 21:31:30	Instrument ID:	ME		
Lims ID:	IC L7				
Client ID:					
Operator ID:	403648	ALS Bottle#:	12	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 124 Toluene Range, CAS: STL02011

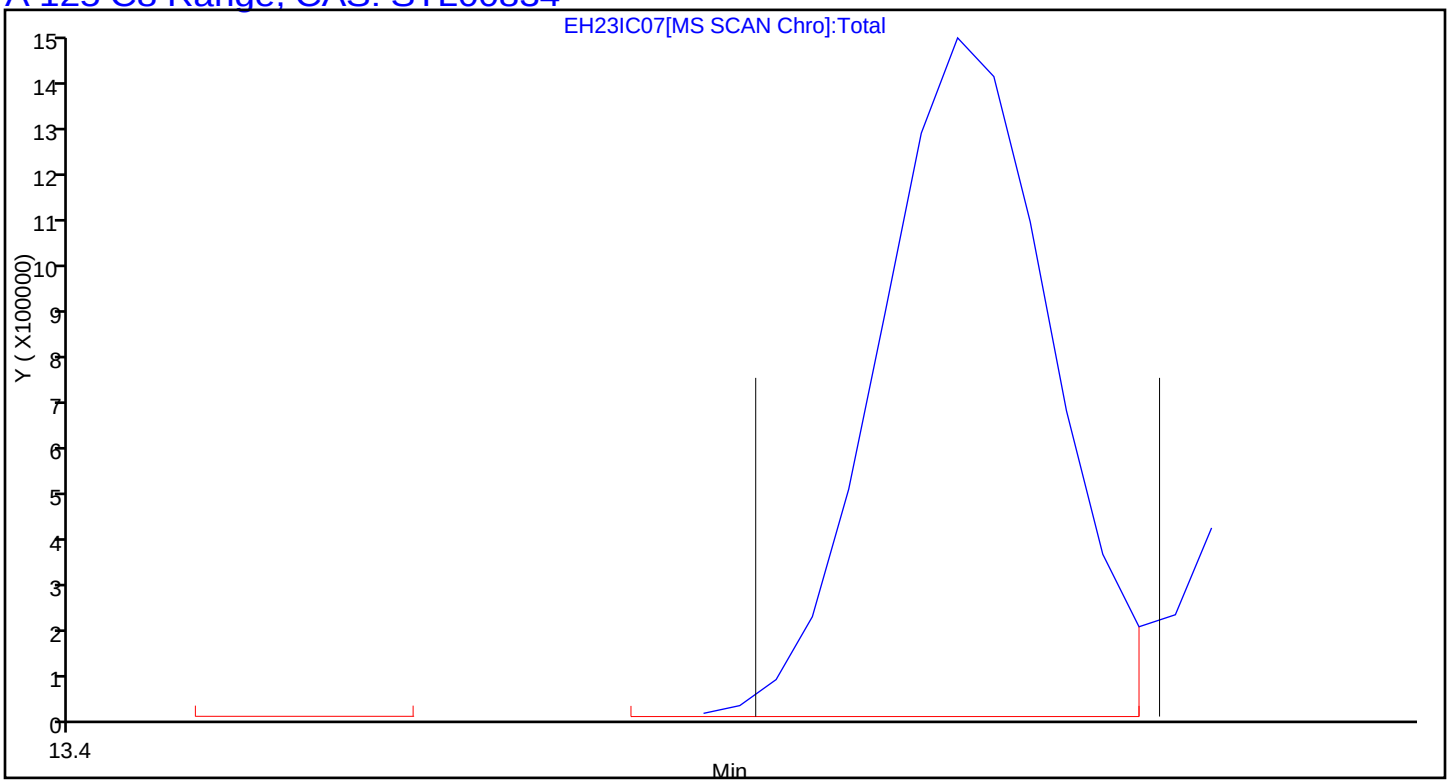


Report Date: 25-Aug-2016 12:59:49 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC07.D				
Injection Date:	23-Aug-2016 21:31:30	Instrument ID:	ME		
Lims ID:	IC L7				
Client ID:					
Operator ID:	403648	ALS Bottle#:	12	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 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC08.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 23-Aug-2016 22:17:30 ALS Bottle#: 13 Worklist Smp#: 10
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052168
Misc. Info.: 140-0003339-010
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:52 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 13:32:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.584	7.576	0.008	74	259188	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.822	9.819	0.003	94	1177462	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	88	1153463	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.492	16.492	0.000	90	958423	4.00	4.06	
6 Chlorodifluoromethane	67	2.898	2.900	-0.002	95	242433	8.00	7.88	
7 Propene	41	2.909	2.909	0.000	95	334314	8.00	7.91	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	98	2073013	8.00	7.61	
9 Chloromethane	52	3.103	3.102	0.001	99	122595	8.00	7.01	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.109	3.110	-0.001	94	1128953	8.00	7.79	
11 Acetaldehyde	44	3.233	3.232	0.001	92	603191	40.0	36.2	
12 Vinyl chloride	62	3.243	3.244	-0.001	98	570655	8.00	8.17	
13 Butane	43	3.319	3.317	0.002	81	603481	8.00	7.92	
14 Butadiene	54	3.319	3.317	0.002	78	358281	8.00	8.10	
15 Bromomethane	94	3.583	3.583	0.000	98	637838	8.00	8.07	
16 Chloroethane	64	3.702	3.700	0.002	98	294933	8.00	7.93	
17 Ethanol	31	3.793	3.786	0.007	99	682822	40.0	37.2	
18 Vinyl bromide	106	3.955	3.950	0.005	98	616492	8.00	8.16	
19 2-Methylbutane	43	3.993	3.990	0.003	85	440024	8.00	7.56	
20 Trichlorofluoromethane	101	4.176	4.173	0.003	99	2071990	8.00	7.85	
21 Acrolein	56	4.187	4.186	0.001	95	131570	8.00	7.63	
22 Acetonitrile	40	4.246	4.243	0.003	98	127213	8.00	7.58	
23 Acetone	58	4.284	4.283	0.001	98	520254	24.0	21.0	
24 Isopropyl alcohol	45	4.365	4.361	0.004	94	1499717	24.0	22.8	
25 Pentane	72	4.365	4.362	0.003	96	116174	8.00	8.36	
26 Ethyl ether	31	4.505	4.510	-0.005	83	335199	8.00	7.83	
27 1,1-Dichloroethene	96	4.791	4.790	0.001	99	618548	8.00	7.83	
29 Acrylonitrile	53	4.893	4.891	0.002	50	246559	8.00	7.38	
28 2-Methyl-2-propanol	59	4.893	4.892	0.001	92	876118	8.00	8.16	
30 1,1,2-Trichloro-1,2,2-trif	101	4.953	4.950	0.003	96	1369350	8.00	8.04	
31 Methylene Chloride	84	5.114	5.112	0.002	78	606626	8.00	7.46	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.131	5.126	0.005	87	512353	8.00	7.78	
33 Carbon disulfide	76	5.260	5.255	0.005	98	1962117	8.00	8.04	
34 trans-1,2-Dichloroethene	96	5.880	5.877	0.003	95	697415	8.00	8.12	
35 2-Methylpentane	43	5.896	5.895	0.001	85	827410	8.00	7.79	
36 Methyl tert-butyl ether	73	6.004	6.013	-0.009	93	1902290	8.00	7.66	
37 1,1-Dichloroethane	63	6.290	6.286	0.004	99	1131279	8.00	7.85	
38 Vinyl acetate	43	6.403	6.401	0.002	98	1075172	8.00	8.26	
39 2-Butanone (MEK)	72	6.840	6.843	-0.003	99	272986	8.00	7.23	
40 Hexane	56	6.851	6.852	-0.001	84	395291	8.00	7.81	
41 Isopropyl ether	45	7.023	7.025	-0.002	89	1204622	8.00	7.73	
42 cis-1,2-Dichloroethene	96	7.255	7.249	0.006	91	714434	8.00	8.24	
43 Ethyl acetate	43	7.460	7.459	0.001	97	797761	8.00	7.87	
44 Chloroform	83	7.600	7.592	0.008	96	1688433	8.00	7.81	
45 Tert-butyl ethyl ether	59	7.692	7.698	-0.006	91	1536459	8.00	7.85	
46 Tetrahydrofuran	42	7.989	8.001	-0.012	76	381534	8.00	7.52	
47 1,1,1-Trichloroethane	97	8.609	8.603	0.006	94	1931274	8.00	7.97	
48 1,2-Dichloroethane	62	8.727	8.721	0.006	99	1083476	8.00	8.11	
50 Cyclohexane	69	9.202	9.202	0.000	96	324420	8.00	8.13	
54 Thiophene	84	9.207	9.207	0.000	67	1200122	8.00	8.23	
51 Benzene	78	9.213	9.209	0.004	95	1895126	8.00	7.85	
49 n-Butanol	31	9.213	9.219	-0.006	79	136710	8.00	9.44	
52 Carbon tetrachloride	117	9.234	9.230	0.004	97	1936171	8.00	8.31	
53 2,3-Dimethylpentane	71	9.353	9.349	0.004	85	461939	8.00	8.22	
55 Tert-amyl methyl ether	73	9.747	9.751	-0.004	96	1820156	8.00	7.80	
56 Isooctane	57	10.049	10.049	-0.001	98	2286361	8.00	8.15	
57 n-Heptane	71	10.485	10.480	0.005	78	708768	8.00	8.26	
58 1,2-Dichloropropane	63	10.555	10.551	0.004	84	594381	8.00	8.24	
59 Trichloroethene	130	10.593	10.590	0.003	95	875136	8.00	8.30	
60 Dibromomethane	93	10.679	10.677	0.002	96	885348	8.00	8.41	
61 Dichlorobromomethane	83	10.847	10.843	0.004	98	1789431	8.00	8.74	
62 1,4-Dioxane	88	10.879	10.884	-0.005	83	278394	8.00	8.33	
63 Methyl methacrylate	41	10.987	10.985	0.002	83	543935	8.00	8.46	
64 Methylcyclohexane	83	11.418	11.414	0.004	90	1506790	8.00	8.19	
65 4-Methyl-2-pentanone (MIBK	43	11.893	11.896	-0.003	91	772677	8.00	8.17	
66 cis-1,3-Dichloropropene	75	11.936	11.934	0.002	90	1257896	8.00	8.62	
67 trans-1,3-Dichloropropene	75	12.680	12.676	0.004	93	1241706	8.00	8.51	
68 Toluene	91	12.788	12.783	0.005	94	2182437	8.00	7.89	
69 1,1,2-Trichloroethane	83	12.880	12.875	0.005	98	682266	8.00	8.03	
70 2-Methylthiophene	97	12.944	12.942	0.002	96	1879129	8.00	8.17	
71 3-Methylthiophene	97	13.155	13.152	0.003	98	1825649	8.00	8.10	
72 2-Hexanone	58	13.300	13.303	-0.003	98	470040	8.00	8.73	
73 n-Octane	85	13.537	13.533	0.004	77	788319	8.00	8.31	
74 Chlorodibromomethane	129	13.591	13.589	0.002	97	1614046	8.00	9.03	
75 Ethylene Dibromide	107	13.888	13.888	0.000	99	1295383	8.00	8.54	
76 Tetrachloroethene	129	13.969	13.966	0.003	96	861861	8.00	8.01	
77 Chlorobenzene	112	14.869	14.865	0.004	91	1705133	8.00	7.97	
78 2,3-Dimethylheptane	43	14.918	14.914	0.004	75	1172837	8.00	7.97	
79 Ethylbenzene	91	15.171	15.168	0.003	98	2927336	8.00	7.89	
80 2-Ethylthiophene	97	15.274	15.272	0.002	97	2380715	8.00	8.20	
81 m-Xylene & p-Xylene	91	15.338	15.337	0.001	98	4453513	16.0	15.4	
83 Bromoform	173	15.775	15.776	-0.001	96	1696654	8.00	9.75	
82 n-Nonane	57	15.791	15.790	0.001	77	1018016	8.00	8.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.808	15.807	0.001	96	1706172	8.00	9.15	
85 o-Xylene	91	15.867	15.867	0.000	98	2413900	8.00	7.94	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.202	-0.001	98	1600723	8.00	8.28	
87 1,2,3-Trichloropropane	110	16.363	16.362	0.001	97	557217	8.00	8.05	
88 Isopropylbenzene	105	16.465	16.466	-0.001	98	3141082	8.00	7.75	
89 N-Propylbenzene	120	17.021	17.021	0.000	99	867100	8.00	8.32	
90 2-Chlorotoluene	126	17.059	17.054	0.005	96	771336	8.00	8.17	
91 4-Ethyltoluene	105	17.183	17.181	0.002	97	3098109	8.00	8.19	
92 1,3,5-Trimethylbenzene	120	17.264	17.262	0.002	92	1439108	8.00	8.17	
93 Alpha Methyl Styrene	118	17.512	17.511	0.001	86	1312588	8.00	9.37	
94 n-Decane	57	17.603	17.599	0.004	94	1200057	8.00	8.29	
95 tert-Butylbenzene	119	17.722	17.721	0.001	91	2722919	8.00	7.84	
96 1,2,4-Trimethylbenzene	105	17.738	17.735	0.003	96	2605971	8.00	7.99	
97 sec-Butylbenzene	105	18.013	18.013	0.000	97	3513808	8.00	7.79	
98 1,3-Dichlorobenzene	146	18.018	18.019	-0.001	98	1698531	8.00	8.58	
99 Benzyl chloride	91	18.105	18.104	0.001	97	2467506	8.00	9.37	
100 1,4-Dichlorobenzene	146	18.116	18.112	0.004	93	1686002	8.00	8.76	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	2988630	8.00	8.02	
102 1,2,3-Trimethylbenzene	105	18.240	18.240	0.000	98	1975362	8.00	8.02	
103 Butylcyclohexane	83	18.304	18.305	-0.001	95	1929931	8.00	7.82	
104 1,2-Dichlorobenzene	146	18.493	18.493	0.000	90	1607098	8.00	8.32	
105 2,3-Dihydroindene	117	18.498	18.495	0.003	94	2244014	8.00	8.16	
106 Indene	116	18.633	18.632	0.001	91	1762740	8.00	8.53	
107 n-Butylbenzene	91	18.655	18.652	0.003	99	2814718	8.00	8.22	
108 Undecane	57	19.000	19.000	0.000	86	1219733	8.00	8.48	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	2138720	8.00	8.15	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.130	-0.001	95	756511	8.00	9.76	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	96	2468612	8.00	8.28	
112 1,2,3,5-Tetramethylbenzene	119	19.501	19.498	0.003	94	1531519	8.00	8.38	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.895	0.000	97	2005252	8.00	8.71	
114 Dodecane	57	20.078	20.078	0.000	91	835790	8.00	9.67	
115 1,2,4-Trichlorobenzene	180	20.229	20.230	-0.001	94	1341362	8.00	10.4	
116 Naphthalene	128	20.359	20.357	0.002	98	2585522	8.00	10.8	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	98	1372667	8.00	10.7	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	96	1521596	8.00	8.23	
119 1,2,3-Trichlorobenzene	180	20.634	20.631	0.003	93	1137089	8.00	10.7	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	99	1508159	25.0	30.7	
121 1-Methylnaphthalene	142	21.664	21.664	0.000	99	1240578	25.0	29.9	
A 124 Toluene Range	1	12.788	(12.758-12.818)		0	5241600	8.00	8.23	
A 125 C8 Range	1	13.531	(13.507-13.567)		0	5417670	8.00	8.49	
S 126 Xylenes, Total	100				0		24.0	23.3	
S 127 1,2-Dichloroethene, Total	1				0		16.0	16.4	

Reagents:

40L8DNP_00006	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

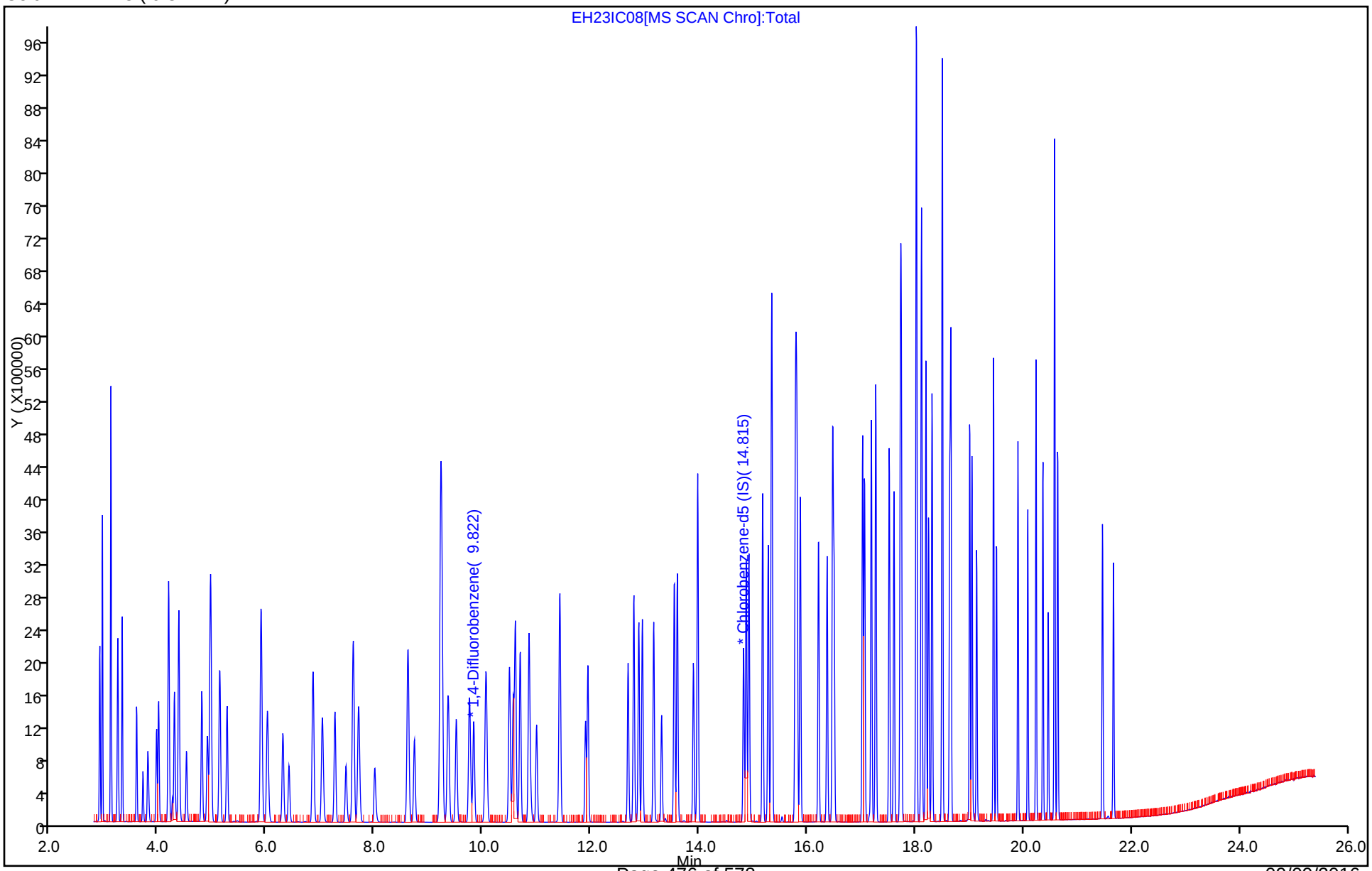
Report Date: 25-Aug-2016 12:59:53 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC08.D

Injection Date:	23-Aug-2016 22:17:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L8			Worklist Smp#:	10
Client ID:					
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)

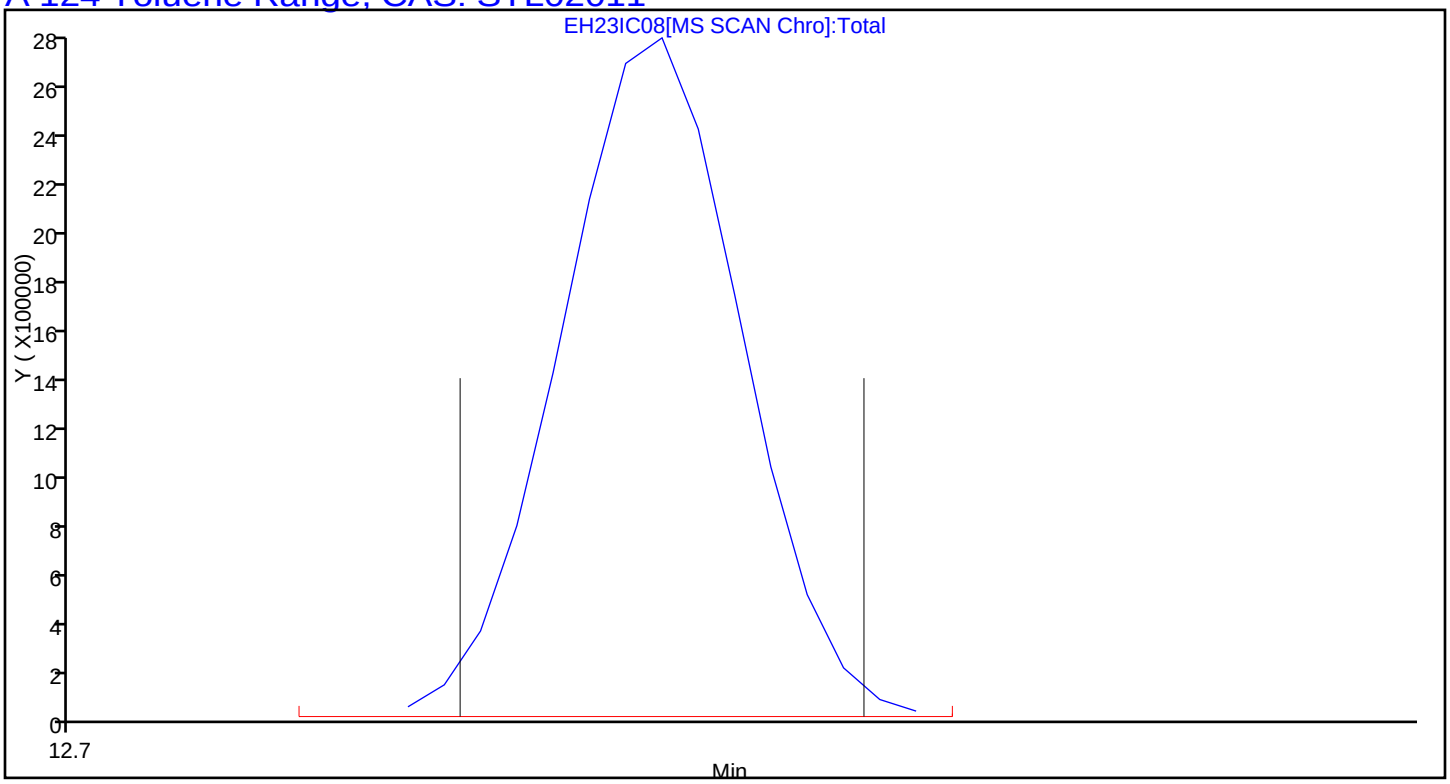


Report Date: 25-Aug-2016 12:59:54 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC08.D				
Injection Date:	23-Aug-2016 22:17:30	Instrument ID:	ME		
Lims ID:	IC L8				
Client ID:					
Operator ID:	403648	ALS Bottle#:	13	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 124 Toluene Range, CAS: STL02011

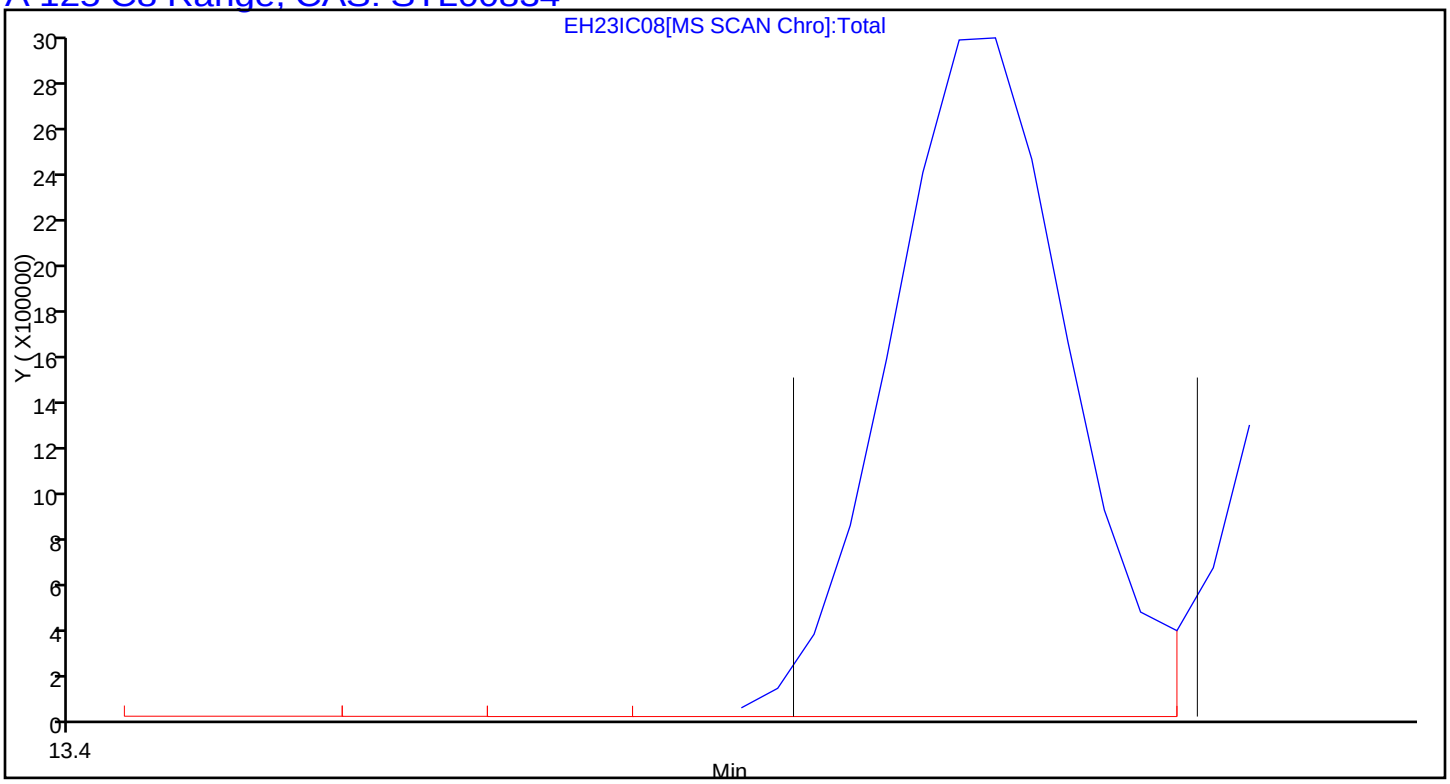


Report Date: 25-Aug-2016 12:59:54 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC08.D				
Injection Date:	23-Aug-2016 22:17:30	Instrument ID:	ME		
Lims ID:	IC L8				
Client ID:					
Operator ID:	403648	ALS Bottle#:	13	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 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D
Lims ID: IC L9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 23-Aug-2016 23:02:30 ALS Bottle#: 14 Worklist Smp#: 11
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052167
Misc. Info.: 140-0003339-011
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 12:59:57 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: barlozhetskayaa Date: 24-Aug-2016 13:36:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.589	7.576	0.013	82	268767	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.827	9.819	0.008	94	1261491	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.821	14.816	0.004	88	1224910	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.498	16.492	0.006	95	992236	4.00	3.96	
6 Chlorodifluoromethane	67	2.898	2.900	-0.002	94	469686	16.0	14.7	
7 Propene	41	2.909	2.909	0.000	95	649043	16.0	14.8	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	98	3746080	16.0	13.3	
9 Chloromethane	52	3.103	3.102	0.001	99	240332	16.0	13.2	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.114	3.110	0.004	92	2114275	16.0	14.1	
11 Acetaldehyde	44	3.238	3.232	0.006	93	1228060	80.0	71.0	
12 Vinyl chloride	62	3.248	3.244	0.004	98	1097667	16.0	15.2	
13 Butane	43	3.319	3.317	0.002	81	1194649	16.0	15.1	
14 Butadiene	54	3.319	3.317	0.002	78	711110	16.0	15.5	
15 Bromomethane	94	3.588	3.583	0.005	98	1260571	16.0	15.4	
16 Chloroethane	64	3.707	3.700	0.007	99	584496	16.0	15.2	
17 Ethanol	31	3.804	3.786	0.018	99	1350335	80.0	70.9	
18 Vinyl bromide	106	3.955	3.950	0.005	98	1222946	16.0	15.6	
19 2-Methylbutane	43	3.993	3.990	0.003	86	880719	16.0	14.6	
20 Trichlorofluoromethane	101	4.181	4.173	0.008	99	3859984	16.0	14.1	
21 Acrolein	56	4.192	4.186	0.006	96	291990	16.0	16.3	
22 Acetonitrile	40	4.251	4.243	0.008	98	300347	16.0	17.3	
23 Acetone	58	4.289	4.283	0.006	97	1102505	48.0	43.0	
24 Isopropyl alcohol	45	4.381	4.361	0.020	97	2961253	48.0	43.5	
25 Pentane	72	4.365	4.362	0.003	96	236638	16.0	16.4	
26 Ethyl ether	31	4.510	4.510	0.000	82	715101	16.0	16.1	
27 1,1-Dichloroethene	96	4.796	4.790	0.006	98	1230023	16.0	15.0	
29 Acrylonitrile	53	4.904	4.891	0.013	92	523026	16.0	15.1	
28 2-Methyl-2-propanol	59	4.909	4.892	0.017	92	1751968	16.0	15.7	
30 1,1,2-Trichloro-1,2,2-trif	101	4.958	4.950	0.008	96	2683210	16.0	15.2	
31 Methylene Chloride	84	5.120	5.112	0.008	79	1186247	16.0	14.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.136	5.126	0.010	88	1010942	16.0	14.8	
33 Carbon disulfide	76	5.260	5.255	0.005	98	3768546	16.0	14.9	
34 trans-1,2-Dichloroethene	96	5.885	5.877	0.008	94	1379488	16.0	15.5	
35 2-Methylpentane	43	5.902	5.895	0.007	85	1645031	16.0	14.9	
36 Methyl tert-butyl ether	73	6.009	6.013	-0.004	93	3992522	16.0	15.5	
37 1,1-Dichloroethane	63	6.295	6.286	0.009	99	2259461	16.0	15.1	
38 Vinyl acetate	43	6.408	6.401	0.007	98	2309147	16.0	17.1	
39 2-Butanone (MEK)	72	6.845	6.843	0.002	99	586143	16.0	15.0	
40 Hexane	56	6.856	6.852	0.004	84	791459	16.0	15.1	
41 Isopropyl ether	45	7.029	7.025	0.004	89	2587020	16.0	16.0	
42 cis-1,2-Dichloroethene	96	7.260	7.249	0.011	90	1441790	16.0	16.0	
43 Ethyl acetate	43	7.465	7.459	0.006	97	1754653	16.0	16.7	
44 Chloroform	83	7.606	7.592	0.014	97	3361601	16.0	15.0	
45 Tert-butyl ethyl ether	59	7.697	7.698	-0.001	91	3265007	16.0	16.1	
46 Tetrahydrofuran	42	7.994	8.001	-0.007	83	834578	16.0	15.9	
47 1,1,1-Trichloroethane	97	8.608	8.603	0.005	94	3823404	16.0	15.2	
48 1,2-Dichloroethane	62	8.733	8.721	0.012	98	2199272	16.0	15.4	
50 Cyclohexane	69	9.207	9.202	0.005	92	641188	16.0	15.0	
54 Thiophene	84	9.212	9.207	0.005	67	2360523	16.0	15.1	
51 Benzene	78	9.218	9.209	0.009	95	3761648	16.0	14.5	
49 n-Butanol	31	9.218	9.219	-0.001	68	276402	16.0	17.8	
52 Carbon tetrachloride	117	9.239	9.230	0.009	98	3741835	16.0	15.0	
53 2,3-Dimethylpentane	71	9.358	9.349	0.009	85	931179	16.0	15.5	
55 Tert-amyl methyl ether	73	9.752	9.751	0.001	97	3872410	16.0	15.6	
56 Isooctane	57	10.054	10.049	0.005	97	4543372	16.0	15.1	
57 n-Heptane	71	10.490	10.480	0.010	78	1436461	16.0	15.6	
58 1,2-Dichloropropane	63	10.561	10.551	0.010	85	1240155	16.0	16.1	
59 Trichloroethene	130	10.598	10.590	0.008	95	1779192	16.0	15.7	
60 Dibromomethane	93	10.690	10.677	0.013	95	1773527	16.0	15.7	
61 Dichlorobromomethane	83	10.852	10.843	0.009	98	3583453	16.0	16.3	
62 1,4-Dioxane	88	10.879	10.884	-0.005	81	569065	16.0	15.9	
63 Methyl methacrylate	41	10.992	10.985	0.007	78	1204588	16.0	17.5	
64 Methylcyclohexane	83	11.418	11.414	0.004	90	2986759	16.0	15.2	
65 4-Methyl-2-pentanone (MIBK	43	11.898	11.896	0.002	91	1647426	16.0	16.3	
66 cis-1,3-Dichloropropene	75	11.941	11.934	0.007	90	2563611	16.0	16.4	
67 trans-1,3-Dichloropropene	75	12.685	12.676	0.009	94	2606992	16.0	16.8	
68 Toluene	91	12.793	12.783	0.010	95	4426217	16.0	15.1	
69 1,1,2-Trichloroethane	83	12.885	12.875	0.010	98	1417572	16.0	15.7	
70 2-Methylthiophene	97	12.949	12.942	0.007	95	3827830	16.0	15.7	
71 3-Methylthiophene	97	13.160	13.152	0.008	97	3704338	16.0	15.5	
72 2-Hexanone	58	13.305	13.303	0.002	98	982468	16.0	17.2	
73 n-Octane	85	13.537	13.533	0.004	78	1590022	16.0	15.8	
74 Chlorodibromomethane	129	13.596	13.589	0.007	96	3262185	16.0	17.2	
75 Ethylene Dibromide	107	13.893	13.888	0.005	98	2692354	16.0	16.7	
76 Tetrachloroethene	129	13.974	13.966	0.008	95	1736176	16.0	15.2	
77 Chlorobenzene	112	14.869	14.865	0.004	90	3462502	16.0	15.2	
78 2,3-Dimethylheptane	43	14.918	14.914	0.004	75	2356966	16.0	15.1	
79 Ethylbenzene	91	15.176	15.168	0.008	97	5740123	16.0	14.6	
80 2-Ethylthiophene	97	15.279	15.272	0.007	97	4726350	16.0	15.3	
81 m-Xylene & p-Xylene	91	15.344	15.337	0.007	96	8445950	32.0	27.5	
83 Bromoform	173	15.780	15.776	0.004	97	3577134	16.0	19.4	
82 n-Nonane	57	15.797	15.790	0.007	77	2032588	16.0	15.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.813	15.807	0.006	96	3547238	16.0	17.9	
85 o-Xylene	91	15.872	15.867	0.005	99	4767807	16.0	14.8	
86 1,1,2,2-Tetrachloroethane	83	16.206	16.202	0.004	98	3306686	16.0	16.1	
87 1,2,3-Trichloropropane	110	16.368	16.362	0.006	96	1182507	16.0	16.1	
88 Isopropylbenzene	105	16.471	16.466	0.005	98	6134373	16.0	14.2	
89 N-Propylbenzene	120	17.026	17.021	0.005	97	1830699	16.0	16.5	
90 2-Chlorotoluene	126	17.058	17.054	0.004	96	1605221	16.0	16.0	
91 4-Ethyltoluene	105	17.188	17.181	0.007	96	6142846	16.0	15.3	
92 1,3,5-Trimethylbenzene	120	17.269	17.262	0.007	93	3013892	16.0	16.1	
93 Alpha Methyl Styrene	118	17.517	17.511	0.006	86	2792870	16.0	18.8	
94 n-Decane	57	17.603	17.599	0.004	93	2440593	16.0	15.9	
95 tert-Butylbenzene	119	17.727	17.721	0.006	94	5459193	16.0	14.8	
96 1,2,4-Trimethylbenzene	105	17.743	17.735	0.008	95	5205042	16.0	15.0	
97 sec-Butylbenzene	105	18.018	18.013	0.005	95	6710905	16.0	14.0	
98 1,3-Dichlorobenzene	146	18.024	18.019	0.005	97	3520402	16.0	16.7	
99 Benzyl chloride	91	18.110	18.104	0.006	98	5037033	16.0	18.0	
100 1,4-Dichlorobenzene	146	18.121	18.112	0.009	91	3523407	16.0	17.2	
101 4-Isopropyltoluene	119	18.196	18.191	0.005	94	5904118	16.0	14.9	
102 1,2,3-Trimethylbenzene	105	18.245	18.240	0.005	97	4048474	16.0	15.5	
103 Butylcyclohexane	83	18.309	18.305	0.004	95	3837052	16.0	14.6	
104 1,2-Dichlorobenzene	146	18.498	18.493	0.005	91	3343640	16.0	16.3	
105 2,3-Dihydroindene	117	18.504	18.495	0.009	94	4497011	16.0	15.4	
106 Indene	116	18.638	18.632	0.006	91	3680888	16.0	16.8	
107 n-Butylbenzene	91	18.654	18.652	0.002	98	5536359	16.0	15.2	
108 Undecane	57	19.005	19.000	0.005	86	2534545	16.0	16.6	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.048	19.043	0.005	97	4357916	16.0	15.6	
110 1,2-Dibromo-3-Chloropropan	157	19.134	19.130	0.004	96	1727184	16.0	21.0	
111 1,2,4,5-Tetramethylbenzene	119	19.447	19.442	0.005	97	4989637	16.0	15.8	
112 1,2,3,5-Tetramethylbenzene	119	19.501	19.498	0.003	95	3228944	16.0	16.6	
113 1,2,3,4-Tetramethylbenzene	119	19.900	19.895	0.005	97	4093587	16.0	16.8	
114 Dodecane	57	20.078	20.078	0.000	90	1858569	16.0	20.2	
115 1,2,4-Trichlorobenzene	180	20.234	20.230	0.004	94	2922266	16.0	21.3	
116 Naphthalene	128	20.358	20.357	0.001	97	5255646	16.0	20.7	
117 Benzo(b)thiophene	134	20.456	20.456	0.000	98	2930895	16.0	21.5	
118 Hexachlorobutadiene	225	20.574	20.574	0.000	96	3190142	16.0	16.2	
119 1,2,3-Trichlorobenzene	180	20.633	20.631	0.002	94	2375998	16.0	21.0	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	99	1955688	50.0	37.5	
121 1-Methylnaphthalene	142	21.663	21.664	-0.001	99	1523739	50.0	34.6	
A 124 Toluene Range	1	12.793	(12.763-12.823)		0	10835824	16.0	15.9	
A 125 C8 Range	1	13.531	(13.507-13.567)		0	10797608	16.0	15.8	
S 126 Xylenes, Total	100				0		48.0	42.3	
S 127 1,2-Dichloroethene, Total	1				0		32.0	31.5	

Reagents:

40L9DNP_00008	Amount Added: 200.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

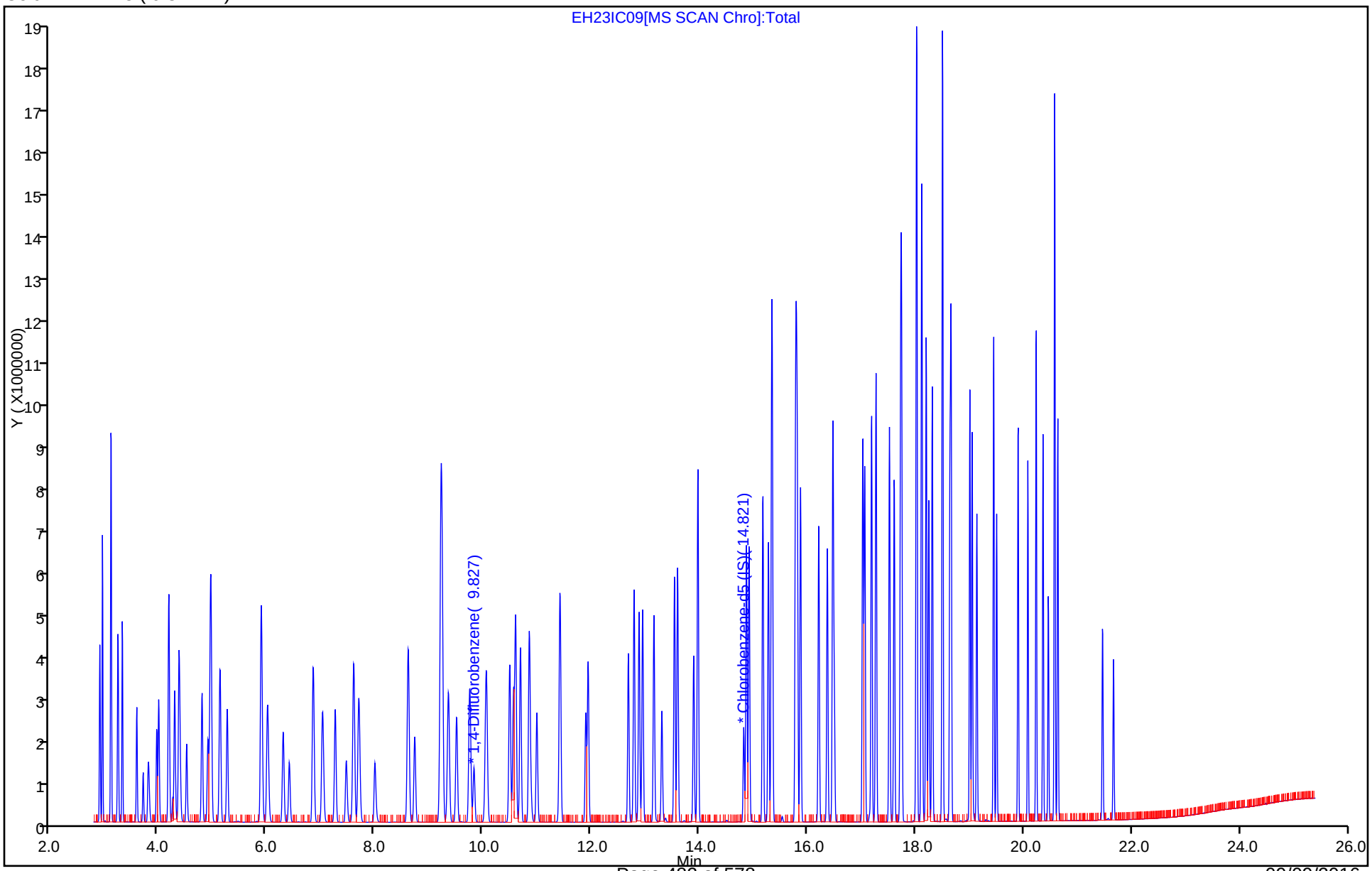
Report Date: 25-Aug-2016 12:59:57 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Injection Date:	23-Aug-2016 23:02:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	IC L9			Worklist Smp#:	11
Client ID:					
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)

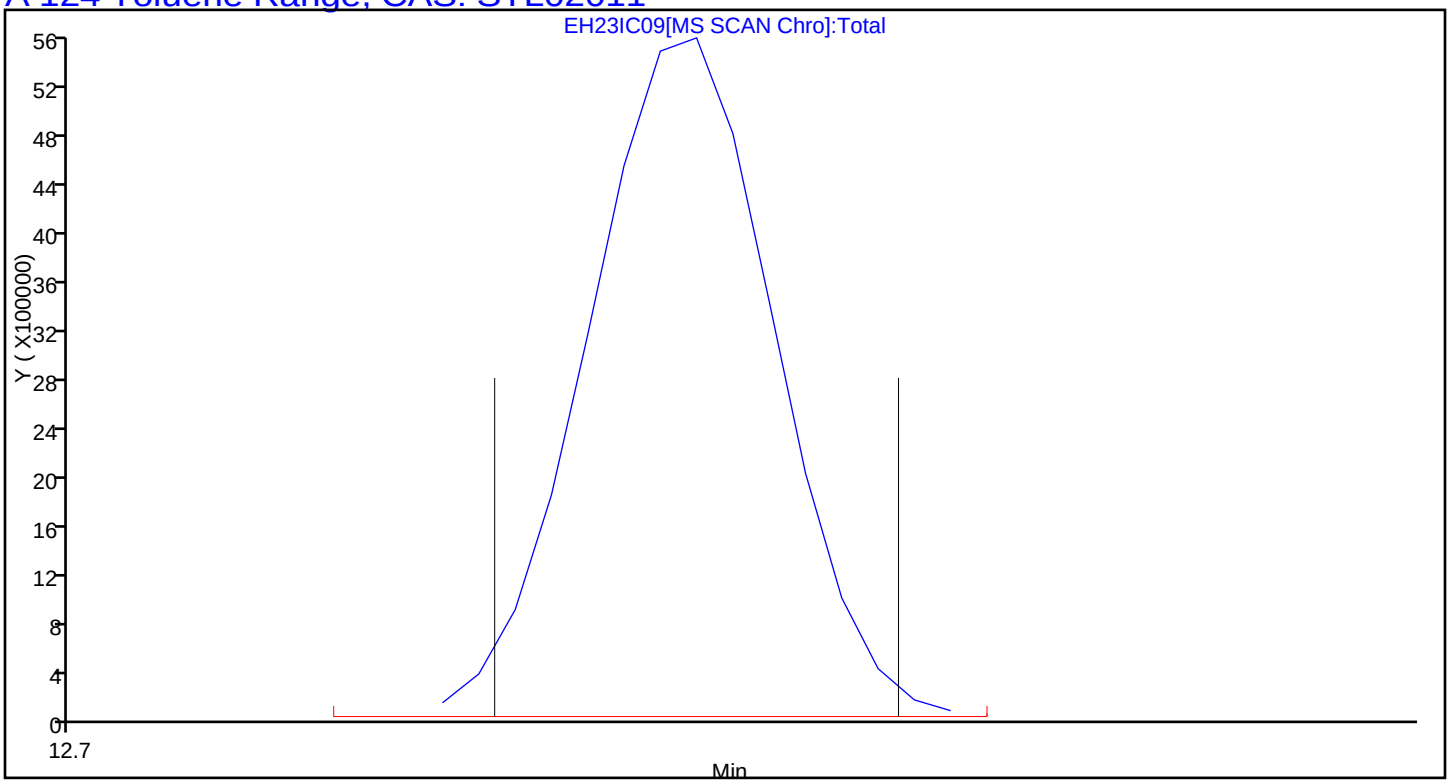


Report Date: 25-Aug-2016 12:59:57 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Injection Date:	23-Aug-2016 23:02:30	Instrument ID:	ME		
Lims ID:	IC L9				
Client ID:					
Operator ID:	403648	ALS Bottle#:	14	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		

A 124 Toluene Range, CAS: STL02011

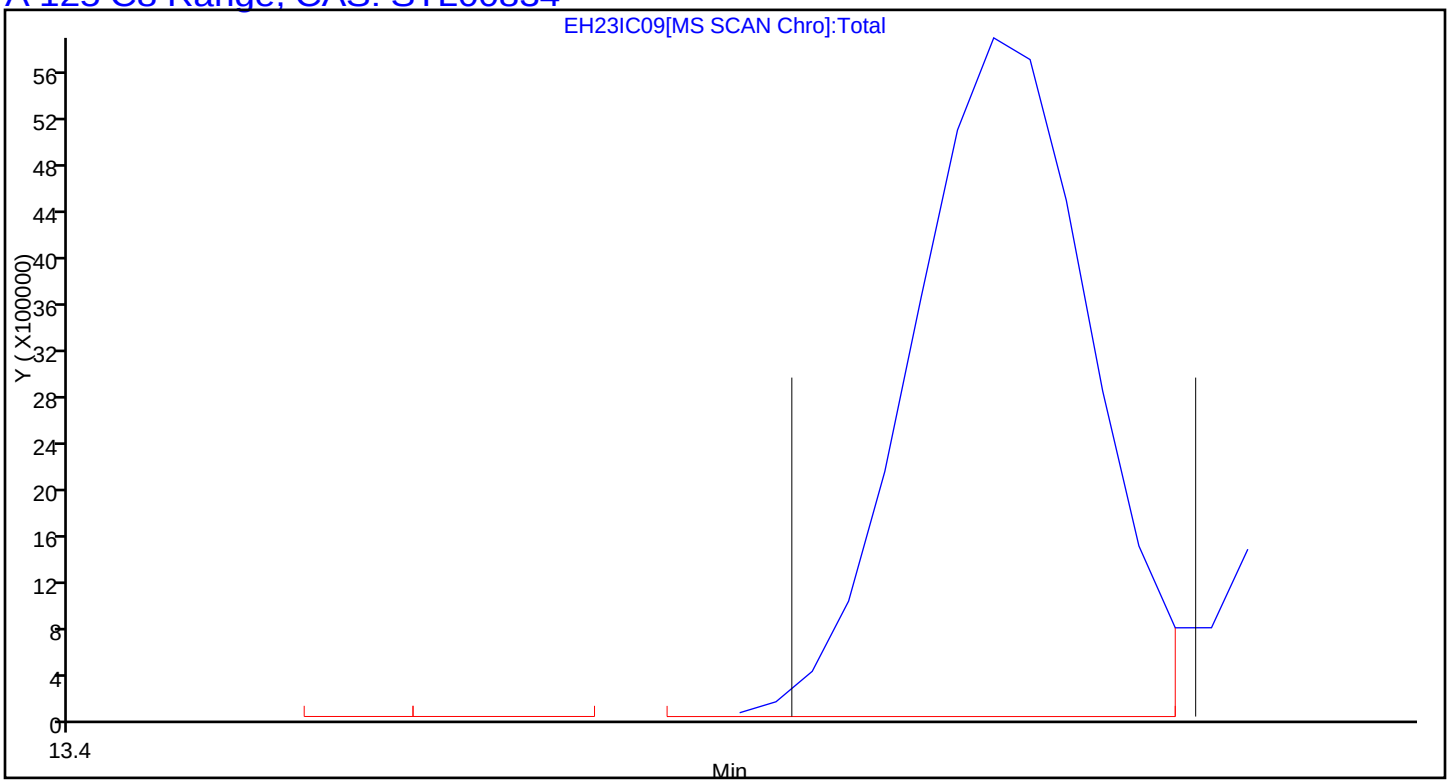


Report Date: 25-Aug-2016 12:59:57 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Injection Date:	23-Aug-2016 23:02:30	Instrument ID:	ME		
Lims ID:	IC L9				
Client ID:					
Operator ID:	403648	ALS Bottle#:	14	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		

A 125 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: ICV 140-6379/13 Calibration Date: 08/24/2016 00:30

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: EH23ICV.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	0.4745	0.5046		2.13	2.00	6.3	35.0
Propene	Ave	0.6524	0.6817		2.09	2.00	4.5	35.0
Dichlorodifluoromethane	Ave	4.206	4.489		2.13	2.00	6.7	35.0
Chloromethane	Ave	0.2701	0.2490		1.84	2.00	-7.8	35.0
1,2-Dichlorotetrafluoroethane	Ave	2.236	2.359		2.11	2.00	5.5	35.0
Acetaldehyde	Ave	0.2573	0.2265		8.80	10.0	-12.0	35.0
Vinyl chloride	Ave	1.078	1.157		2.15	2.00	7.3	35.0
1,3-Butadiene	Ave	0.6822	0.6973		2.04	2.00	2.2	35.0
Butane	Ave	1.176	1.230		2.09	2.00	4.6	35.0
Bromomethane	Ave	1.220	1.246		2.04	2.00	2.1	35.0
Chloroethane	Ave	0.5740	0.5737		2.00	2.00	-0.0	35.0
Ethanol	Ave	0.2836	0.2613		9.21	10.0	-7.9	35.0
Vinyl bromide	Ave	1.166	1.291		2.21	2.00	10.7	35.0
2-Methylbutane	Ave	0.8988	0.8896		1.98	2.00	-1.0	35.0
Trichlorofluoromethane	Ave	4.072	4.243		2.08	2.00	4.2	35.0
Acrolein	Ave	0.2661	0.2482		1.87	2.00	-6.7	35.0
Acetonitrile	Ave	0.2589	0.2415		1.87	2.00	-6.7	35.0
Acetone	Ave	0.3815	0.3226		5.07	6.00	-15.5	35.0
Isopropyl alcohol	Ave	1.014	0.9494		5.62	6.00	-6.3	35.0
Pentane	Ave	0.2144	0.2340		2.18	2.00	9.1	35.0
Ethyl ether	Ave	0.6609	0.6532		1.98	2.00	-1.2	35.0
1,1-Dichloroethene	Ave	1.220	1.204		1.97	2.00	-1.3	35.0
t-Butyl alcohol	Ave	1.656	1.652		2.00	2.00	-0.2	35.0
Acrylonitrile	Ave	0.5155	0.4859		1.89	2.00	-5.7	35.0
1,1,2-Trichlorotrifluoroethane	Ave	2.630	2.596		1.97	2.00	-1.3	35.0
Methylene Chloride	Ave	1.255	1.205		1.92	2.00	-4.0	35.0
3-Chloropropene	Ave	1.016	0.9020		1.78	2.00	-11.2	35.0
Carbon disulfide	Ave	3.766	3.967		2.11	2.00	5.4	35.0
trans-1,2-Dichloroethene	Ave	1.326	1.345		2.03	2.00	1.4	35.0
2-Methylpentane	Ave	1.640	1.754		2.14	2.00	7.0	35.0
Methyl tert-butyl ether	Ave	3.835	3.629		1.89	2.00	-5.4	35.0
1,1-Dichloroethane	Ave	2.224	2.276		2.05	2.00	2.3	35.0
Vinyl acetate	Ave	2.009	1.795		1.79	2.00	-10.7	35.0
2-Butanone	Ave	0.5829	0.4994		1.71	2.00	-14.3	35.0
Hexane	Ave	0.7813	0.7819		2.00	2.00	0.0	35.0
Isopropyl ether	Ave	2.404	2.149		1.79	2.00	-10.6	35.0
cis-1,2-Dichloroethene	Ave	1.339	1.403		2.10	2.00	4.8	35.0
Ethyl acetate	Ave	1.564	1.348		1.72	2.00	-13.8	35.0
Chloroform	Ave	3.335	3.413		2.05	2.00	2.4	35.0
Tert-butyl ethyl ether	Ave	3.019	3.074		2.04	2.00	1.8	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: ICV 140-6379/13 Calibration Date: 08/24/2016 00:30

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: EH23ICV.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
Tetrahydrofuran	Ave	0.7832	0.7092		1.81	2.00	-9.5	35.0
1,1,1-Trichloroethane	Ave	3.737	3.887		2.08	2.00	4.0	35.0
1,2-Dichloroethane	Ave	0.4541	0.4612		2.03	2.00	1.6	35.0
Cyclohexane	Ave	0.1355	0.1371		2.02	2.00	1.1	35.0
1-Butanol	Ave	0.0492	0.0554		2.25	2.00	12.7	35.0
Benzene	Ave	0.8198	0.8478		2.07	2.00	3.4	35.0
Thiophene	Ave	0.4957	0.5108		2.06	2.00	3.1	35.0
Carbon tetrachloride	Ave	0.7915	0.8269		2.09	2.00	4.5	35.0
2,3-Dimethylpentane	Ave	0.1910	0.1774		1.86	2.00	-7.1	35.0
Tert-amyl methyl ether	Ave	0.8089	0.7689		1.90	2.00	-4.9	35.0
2,2,4-Trimethylpentane	Ave	0.9528	0.9934		2.09	2.00	4.3	35.0
Heptane	Ave	0.2915	0.2971		2.04	2.00	1.9	35.0
1,2-Dichloropropane	Ave	0.2450	0.2556		2.09	2.00	4.3	35.0
Trichloroethene	Ave	0.3584	0.4116		2.30	2.00	14.9	35.0
Dibromomethane	Ave	0.3575	0.3730		2.09	2.00	4.3	35.0
Bromodichloromethane	Ave	0.6953	0.7520		2.16	2.00	8.2	35.0
1,4-Dioxane	Ave	0.1136	0.1060		1.87	2.00	-6.7	35.0
Methyl methacrylate	Ave	0.2185	0.1885		1.73	2.00	-13.7	35.0
Methylcyclohexane	Ave	0.6246	0.5214		1.67	2.00	-16.5	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3214	0.2988		1.86	2.00	-7.0	35.0
cis-1,3-Dichloropropene	Ave	0.4960	0.5210		2.10	2.00	5.1	35.0
trans-1,3-Dichloropropene	Ave	0.5058	0.5322		2.10	2.00	5.2	35.0
Toluene	Ave	0.9594	1.032		2.15	2.00	7.5	35.0
1,1,2-Trichloroethane	Ave	0.2946	0.3064		2.08	2.00	4.0	35.0
2-Methylthiophene	Ave	0.7973	0.8950		2.25	2.00	12.3	35.0
3-Methylthiophene	Ave	0.7817	0.9074		2.32	2.00	16.1	35.0
2-Hexanone	Ave	0.1867	0.1880		2.01	2.00	0.6	35.0
Octane	Ave	0.3291	0.3599		2.19	2.00	9.3	35.0
Dibromochloromethane	Ave	0.6197	0.6932		2.24	2.00	11.9	35.0
1,2-Dibromoethane	Ave	0.5261	0.5606		2.13	2.00	6.5	35.0
Tetrachloroethene	Ave	0.3732	0.3991		2.14	2.00	6.9	35.0
Chlorobenzene	Ave	0.7417	0.7955		2.14	2.00	7.2	35.0
2,3-Dimethylheptane	Ave	0.5103	0.5575		2.18	2.00	9.2	35.0
Ethylbenzene	Ave	1.287	1.367		2.12	2.00	6.2	35.0
2-Ethylthiophene	Ave	1.007	1.070		2.13	2.00	6.3	35.0
m-Xylene & p-Xylene	Ave	1.004	1.071		4.27	4.00	6.7	35.0
Bromoform	Ave	0.6036	0.6731		2.23	2.00	11.5	35.0
Nonane	Ave	0.4307	0.4703		2.18	2.00	9.2	35.0
Styrene	Ave	0.6469	0.7439		2.30	2.00	15.0	35.0
o-Xylene	Ave	1.054	1.086		2.06	2.00	3.0	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6702	0.6159		1.84	2.00	-8.1	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: ICV 140-6379/13 Calibration Date: 08/24/2016 00:30

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: EH23ICV.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
1,2,3-Trichloropropane	Ave	0.2401	0.2388		1.99	2.00	-0.5	35.0
Isopropylbenzene	Ave	1.406	1.469		2.09	2.00	4.5	35.0
Propylbenzene	Ave	0.3616	0.3822		2.11	2.00	5.7	35.0
2-Chlorotoluene	Ave	0.3276	0.3492		2.13	2.00	6.6	35.0
4-Ethyltoluene	Ave	1.312	1.324		2.02	2.00	0.9	35.0
1,3,5-Trimethylbenzene	Ave	0.6108	0.6390		2.09	2.00	4.6	35.0
Alpha Methyl Styrene	Ave	0.4859	0.5360		2.21	2.00	10.3	35.0
Decane	Ave	0.5020	0.5428		2.16	2.00	8.1	35.0
tert-Butylbenzene	Ave	1.205	1.239		2.06	2.00	2.8	35.0
1,2,4-Trimethylbenzene	Ave	1.131	1.178		2.08	2.00	4.2	35.0
sec-Butylbenzene	Ave	1.565	1.625		2.08	2.00	3.8	35.0
1,3-Dichlorobenzene	Ave	0.6866	0.7347		2.14	2.00	7.0	35.0
Benzyl chloride	Ave	0.9136	0.9711		2.13	2.00	6.3	35.0
1,4-Dichlorobenzene	Ave	0.6673	0.7139		2.14	2.00	7.0	35.0
4-Isopropyltoluene	Ave	1.292	1.323		2.05	2.00	2.4	35.0
1,2,3-Trimethylbenzene	Ave	0.8539	0.9481		2.22	2.00	11.0	35.0
Butylcyclohexane	Ave	0.8557	0.8876		2.07	2.00	3.7	35.0
1,2-Dichlorobenzene	Ave	0.6696	0.7022		2.10	2.00	4.9	35.0
Indane	Ave	0.9538	0.9486		1.99	2.00	-0.5	35.0
Indene	Ave	0.7162	0.9197		2.57	2.00	28.4	35.0
Butylbenzene	Ave	1.187	1.254		2.11	2.00	5.6	35.0
Undecane	Ave	0.4988	0.4581		1.84	2.00	-8.2	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.9105	1.132		2.49	2.00	24.3	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.2689	0.1772		1.32	2.00	-34.1	35.0
1,2,4,5-Tetramethylbenzene	Ave	1.034	1.152		2.23	2.00	11.4	35.0
1,2,3,5-Tetramethylbenzene	Ave	0.6339	0.7358		2.32	2.00	16.1	35.0
1,2,3,4-Tetramethylbenzene	Ave	0.7980	0.9101		2.28	2.00	14.0	35.0
Dodecane	Ave	0.2998	0.3737		2.49	2.00	24.7	35.0
1,2,4-Trichlorobenzene	Ave	0.4489	0.5310		2.37	2.00	18.3	35.0
Naphthalene	Ave	0.8290	1.027		2.48	2.00	23.9	35.0
Benzo(b)thiophene	Ave	0.4459	0.5779		2.59	2.00	29.6	35.0
Hexachlorobutadiene	Ave	0.6412	0.6964		2.17	2.00	8.6	35.0
1,2,3-Trichlorobenzene	Ave	0.3697	0.4754		2.57	2.00	28.6	35.0
2-Methylnaphthalene	Ave	0.1703	0.1317		4.83	6.25	-22.7	50.0
1-Methylnaphthalene	Ave	0.1438	0.0985		4.28	6.25	-31.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8185	0.8034		3.93	4.00	-1.8	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23ICV.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Aug-2016 00:30:30 ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 052146
Misc. Info.: 140-0003339-013
Operator ID: 403648 Instrument ID: ME
Sublist:

Method: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Aug-2016 13:44:26 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: barlozhetskayaa Date: 25-Aug-2016 13:44:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.576	-0.003	80	255853	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.819	-0.003	94	1211654	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.815	14.816	-0.001	89	1126201	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.491	-0.005	89	904830	4.00	3.93	
6 Chlorodifluoromethane	67	2.898	2.899	-0.002	95	64552	2.00	2.13	
7 Propene	41	2.909	2.908	0.000	95	87209	2.00	2.09	
8 Dichlorodifluoromethane	85	2.952	2.951	0.000	99	574205	2.00	2.13	
9 Chloromethane	52	3.097	3.100	-0.005	98	31849	2.00	1.84	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.109	-0.002	95	301759	2.00	2.11	
11 Acetaldehyde	44	3.232	3.231	0.000	91	144885	10.0	8.80	
12 Vinyl chloride	62	3.243	3.243	-0.001	98	148021	2.00	2.15	
13 Butane	43	3.313	3.315	-0.004	82	157368	2.00	2.09	
14 Butadiene	54	3.313	3.316	-0.004	75	89204	2.00	2.04	
15 Bromomethane	94	3.583	3.582	0.000	98	159443	2.00	2.04	
16 Chloroethane	64	3.696	3.698	-0.004	98	73391	2.00	2.00	
17 Ethanol	31	3.782	3.784	-0.004	99	167138	10.0	9.21	
18 Vinyl bromide	106	3.949	3.948	-0.001	98	165187	2.00	2.21	
19 2-Methylbutane	43	3.987	3.988	-0.003	85	113803	2.00	1.98	
20 Trichlorofluoromethane	101	4.170	4.171	-0.003	99	542778	2.00	2.08	
21 Acrolein	56	4.181	4.184	-0.005	96	31757	2.00	1.87	
22 Acetonitrile	40	4.240	4.241	-0.003	98	30891	2.00	1.87	
23 Acetone	58	4.278	4.281	-0.005	98	123798	6.00	5.07	
24 Isopropyl alcohol	45	4.354	4.359	-0.007	93	364383	6.00	5.62	
25 Pentane	72	4.359	4.360	-0.003	96	29928	2.00	2.18	
26 Ethyl ether	31	4.505	4.508	-0.005	83	83556	2.00	1.98	
27 1,1-Dichloroethene	96	4.785	4.787	-0.005	99	154059	2.00	1.97	
29 Acrylonitrile	53	4.888	4.889	-0.003	93	62164	2.00	1.89	
28 2-Methyl-2-propanol	59	4.882	4.890	-0.010	93	211368	2.00	2.00	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.947	-0.003	96	332076	2.00	1.97	
31 Methylene Chloride	84	5.109	5.110	-0.003	78	154144	2.00	1.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.125	5.124	-0.001	88	115388	2.00	1.78	
33 Carbon disulfide	76	5.254	5.252	-0.001	98	507532	2.00	2.11	
34 trans-1,2-Dichloroethene	96	5.874	5.874	-0.003	96	172037	2.00	2.03	
35 2-Methylpentane	43	5.891	5.892	-0.005	86	224353	2.00	2.14	
36 Methyl tert-butyl ether	73	6.004	6.010	-0.009	93	464188	2.00	1.89	
37 1,1-Dichloroethane	63	6.284	6.284	-0.002	99	291169	2.00	2.05	
38 Vinyl acetate	43	6.397	6.398	-0.004	99	229647	2.00	1.79	
39 2-Butanone (MEK)	72	6.840	6.840	-0.003	98	63884	2.00	1.71	
40 Hexane	56	6.845	6.849	-0.007	84	100024	2.00	2.00	
41 Isopropyl ether	45	7.018	7.022	-0.007	90	274907	2.00	1.79	
42 cis-1,2-Dichloroethene	96	7.249	7.246	0.000	91	179464	2.00	2.10	
43 Ethyl acetate	43	7.454	7.456	-0.005	97	172422	2.00	1.72	
44 Chloroform	83	7.589	7.588	-0.003	96	436653	2.00	2.05	
45 Tert-butyl ethyl ether	59	7.692	7.694	-0.006	91	393306	2.00	2.04	
46 Tetrahydrofuran	42	7.994	7.998	-0.007	76	90727	2.00	1.81	
47 1,1,1-Trichloroethane	97	8.603	8.599	0.000	93	497190	2.00	2.08	
48 1,2-Dichloroethane	62	8.722	8.718	0.001	98	279411	2.00	2.03	
50 Cyclohexane	69	9.201	9.199	-0.001	95	83058	2.00	2.02	
54 Thiophene	84	9.207	9.205	0.000	66	309469	2.00	2.06	
51 Benzene	78	9.207	9.206	-0.002	95	513602	2.00	2.07	
49 n-Butanol	31	9.207	9.217	-0.012	57	33588	2.00	2.25	
52 Carbon tetrachloride	117	9.228	9.227	-0.002	97	500929	2.00	2.09	
53 2,3-Dimethylpentane	71	9.347	9.346	-0.002	85	107490	2.00	1.86	
55 Tert-amyl methyl ether	73	9.741	9.750	-0.010	96	433033	2.00	1.90	
56 Isooctane	57	10.048	10.046	-0.001	98	601853	2.00	2.09	
57 n-Heptane	71	10.479	10.477	-0.001	78	179962	2.00	2.04	
58 1,2-Dichloropropane	63	10.550	10.548	-0.001	85	154876	2.00	2.09	
59 Trichloroethene	130	10.587	10.587	-0.003	95	249372	2.00	2.30	
60 Dibromomethane	93	10.679	10.674	0.002	96	225978	2.00	2.09	
61 Dichlorobromomethane	83	10.841	10.840	-0.002	97	455552	2.00	2.16	
62 1,4-Dioxane	88	10.878	10.881	-0.006	80	64231	2.00	1.87	
63 Methyl methacrylate	41	10.981	10.982	-0.004	78	114203	2.00	1.73	
64 Methylcyclohexane	83	11.412	11.411	-0.002	90	315886	2.00	1.67	
65 4-Methyl-2-pentanone (MIBK	43	11.887	11.893	-0.009	92	181007	2.00	1.86	
66 cis-1,3-Dichloropropene	75	11.935	11.931	0.001	90	315651	2.00	2.10	
67 trans-1,3-Dichloropropene	75	12.674	12.675	-0.002	93	299662	2.00	2.10	
68 Toluene	91	12.782	12.782	-0.001	94	580873	2.00	2.15	
69 1,1,2-Trichloroethane	83	12.874	12.870	-0.001	98	172504	2.00	2.08	
70 2-Methylthiophene	97	12.944	12.941	0.002	96	503967	2.00	2.25	
71 3-Methylthiophene	97	13.149	13.151	-0.003	98	510976	2.00	2.32	
72 2-Hexanone	58	13.300	13.302	-0.003	98	105833	2.00	2.01	
73 n-Octane	85	13.532	13.532	-0.001	78	202646	2.00	2.19	
74 Chlorodibromomethane	129	13.585	13.588	-0.004	97	390318	2.00	2.24	
75 Ethylene Dibromide	107	13.887	13.887	-0.001	98	315654	2.00	2.13	
76 Tetrachloroethene	129	13.968	13.965	0.002	95	224735	2.00	2.14	
77 Chlorobenzene	112	14.863	14.864	-0.002	91	447916	2.00	2.14	
78 2,3-Dimethylheptane	43	14.912	14.913	-0.002	76	313899	2.00	2.18	
79 Ethylbenzene	91	15.171	15.167	0.003	98	769758	2.00	2.12	
80 2-Ethylthiophene	97	15.273	15.271	0.001	98	602718	2.00	2.13	
81 m-Xylene & p-Xylene	91	15.333	15.336	-0.004	99	1206371	4.00	4.27	
83 Bromoform	173	15.775	15.775	-0.001	96	378996	2.00	2.23	
82 n-Nonane	57	15.786	15.789	-0.004	77	264813	2.00	2.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.807	15.806	0.000	96	418910	2.00	2.30	
85 o-Xylene	91	15.866	15.866	-0.001	98	611355	2.00	2.06	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.201	-0.001	99	346799	2.00	1.84	
87 1,2,3-Trichloropropane	110	16.363	16.361	0.000	97	134480	2.00	1.99	
88 Isopropylbenzene	105	16.465	16.465	-0.001	97	827361	2.00	2.09	
89 N-Propylbenzene	120	17.015	17.020	-0.006	99	215219	2.00	2.11	
90 2-Chlorotoluene	126	17.053	17.053	-0.001	96	196660	2.00	2.13	
91 4-Ethyltoluene	105	17.177	17.180	-0.004	98	745303	2.00	2.02	
92 1,3,5-Trimethylbenzene	120	17.263	17.261	0.001	92	359798	2.00	2.09	
93 Alpha Methyl Styrene	118	17.511	17.510	0.000	87	301809	2.00	2.21	
94 n-Decane	57	17.597	17.598	-0.002	94	305633	2.00	2.16	
95 tert-Butylbenzene	119	17.716	17.720	-0.005	90	697546	2.00	2.06	
96 1,2,4-Trimethylbenzene	105	17.732	17.734	-0.003	96	663584	2.00	2.08	
97 sec-Butylbenzene	105	18.013	18.012	0.000	98	914997	2.00	2.08	
98 1,3-Dichlorobenzene	146	18.018	18.018	-0.001	98	413719	2.00	2.14	
99 Benzyl chloride	91	18.104	18.103	0.000	98	546826	2.00	2.13	
100 1,4-Dichlorobenzene	146	18.110	18.111	-0.002	93	402013	2.00	2.14	
101 4-Isopropyltoluene	119	18.191	18.190	-0.001	96	744881	2.00	2.05	
102 1,2,3-Trimethylbenzene	105	18.239	18.239	-0.001	99	533884	2.00	2.22	
103 Butylcyclohexane	83	18.304	18.304	-0.001	95	499800	2.00	2.07	
104 1,2-Dichlorobenzene	146	18.492	18.492	-0.001	91	395407	2.00	2.10	
105 2,3-Dihydroindene	117	18.492	18.493	-0.003	93	534154	2.00	1.99	
106 Indene	116	18.633	18.631	0.001	91	517905	2.00	2.57	
107 n-Butylbenzene	91	18.649	18.650	-0.003	98	706111	2.00	2.11	
108 Undecane	57	18.999	18.999	-0.001	87	257931	2.00	1.84	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.042	-0.001	97	637352	2.00	2.49	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.129	-0.001	94	99763	2.00	1.32	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.441	0.000	95	648704	2.00	2.23	
112 1,2,3,5-Tetramethylbenzene	119	19.495	19.496	-0.003	94	414327	2.00	2.32	
113 1,2,3,4-Tetramethylbenzene	119	19.895	19.894	-0.001	96	512459	2.00	2.28	
114 Dodecane	57	20.078	20.076	0.000	92	210418	2.00	2.49	
115 1,2,4-Trichlorobenzene	180	20.229	20.229	-0.001	93	299016	2.00	2.37	
116 Naphthalene	128	20.353	20.356	-0.004	98	578170	2.00	2.48	
117 Benzo(b)thiophene	134	20.455	20.454	-0.001	99	325425	2.00	2.59	
118 Hexachlorobutadiene	225	20.574	20.572	0.000	96	392153	2.00	2.17	
119 1,2,3-Trichlorobenzene	180	20.628	20.629	-0.003	93	267691	2.00	2.57	
120 2-Methylnaphthalene	142	21.458	21.457	-0.001	99	231816	6.25	4.83	
121 1-Methylnaphthalene	142	21.663	21.662	-0.001	99	173379	6.25	4.28	
A 124 Toluene Range	1	12.793	(12.763-12.823)		0	1396564	2.00	2.13	
A 125 C8 Range	1	13.528	(13.507-13.548)		0	1401419	2.00	2.14	
S 126 Xylenes, Total	100				0		6.00	6.33	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.12	

Reagents:

40CV101S_00018	Amount Added: 100.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

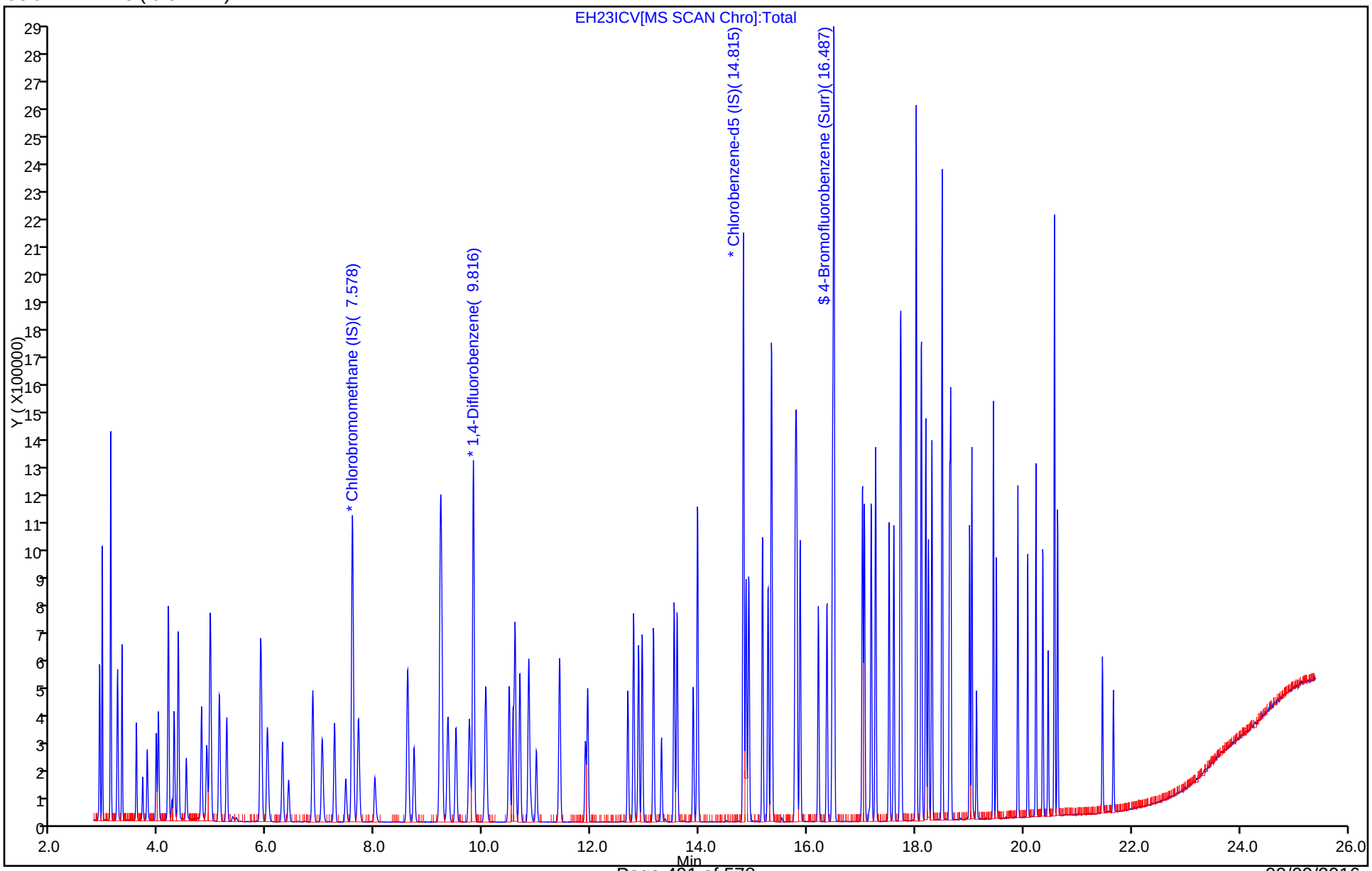
Report Date: 25-Aug-2016 13:44:28 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23ICV.D

Injection Date:	24-Aug-2016 00:30:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	ICV			Worklist Smp#:	13
Client ID:					
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 VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: CCVIS 140-6440/2 Calibration Date: 09/01/2016 10:10

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: ECCVI01.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	0.4745	0.5620		2.37	2.00	18.4	30.0
Propene	Ave	0.6524	0.8049		2.47	2.00	23.4	30.0
Dichlorodifluoromethane	Ave	4.206	4.968		2.36	2.00	18.1	30.0
Chloromethane	Ave	0.2701	0.2939		2.18	2.00	8.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.236	2.531		2.26	2.00	13.2	30.0
Acetaldehyde	Ave	0.2573	0.2557		9.94	10.0	-0.6	30.0
Vinyl chloride	Ave	1.078	1.267		2.35	2.00	17.5	30.0
1,3-Butadiene	Ave	0.6822	0.7769		2.28	2.00	13.9	30.0
Butane	Ave	1.176	1.348		2.29	2.00	14.6	30.0
Bromomethane	Ave	1.220	1.412		2.32	2.00	15.7	30.0
Chloroethane	Ave	0.5740	0.6410		2.23	2.00	11.7	30.0
Ethanol	Ave	0.2836	0.2730		9.63	10.0	-3.8	30.0
Vinyl bromide	Ave	1.166	1.296		2.22	2.00	11.1	30.0
2-Methylbutane	Ave	0.8988	0.9173		2.04	2.00	2.1	30.0
Trichlorofluoromethane	Ave	4.072	4.711		2.32	2.00	15.7	30.0
Acrolein	Ave	0.2661	0.2792		2.10	2.00	4.9	30.0
Acetonitrile	Ave	0.2589	0.2343		1.81	2.00	-9.5	30.0
Acetone	Ave	0.3815	0.3566		5.61	6.00	-6.5	30.0
Isopropyl alcohol	Ave	1.014	0.9875		5.85	6.00	-2.6	30.0
Pentane	Ave	0.2144	0.2483		2.32	2.00	15.8	30.0
Ethyl ether	Ave	0.6609	0.6587		1.99	2.00	-0.3	30.0
1,1-Dichloroethene	Ave	1.220	1.257		2.06	2.00	3.1	30.0
t-Butyl alcohol	Ave	1.656	1.718		2.08	2.00	3.7	30.0
Acrylonitrile	Ave	0.5155	0.4761		1.85	2.00	-7.7	30.0
1,1,2-Trichlorotrifluoroethane	Ave	2.630	2.821		2.15	2.00	7.3	30.0
Methylene Chloride	Ave	1.255	1.303		2.08	2.00	3.9	30.0
3-Chloropropene	Ave	1.016	0.9929		1.96	2.00	-2.3	30.0
Carbon disulfide	Ave	3.766	4.202		2.23	2.00	11.6	30.0
trans-1,2-Dichloroethene	Ave	1.326	1.421		2.14	2.00	7.1	30.0
2-Methylpentane	Ave	1.640	1.750		2.14	2.00	6.7	30.0
Methyl tert-butyl ether	Ave	3.835	3.822		1.99	2.00	-0.3	30.0
1,1-Dichloroethane	Ave	2.224	2.410		2.17	2.00	8.4	30.0
Vinyl acetate	Ave	2.009	2.047		2.04	2.00	1.9	30.0
2-Butanone	Ave	0.5829	0.5285		1.81	2.00	-9.3	30.0
Hexane	Ave	0.7813	0.8454		2.17	2.00	8.2	30.0
Isopropyl ether	Ave	2.404	2.416		2.01	2.00	0.5	30.0
cis-1,2-Dichloroethene	Ave	1.339	1.398		2.09	2.00	4.4	30.0
Ethyl acetate	Ave	1.564	1.506		1.93	2.00	-3.7	30.0
Chloroform	Ave	3.335	3.501		2.10	2.00	5.0	30.0
Tert-butyl ethyl ether	Ave	3.019	3.034		2.01	2.00	0.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: CCVIS 140-6440/2 Calibration Date: 09/01/2016 10:10

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: ECCVI01.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
Tetrahydrofuran	Ave	0.7832	0.7456		1.90	2.00	-4.8	30.0
1,1,1-Trichloroethane	Ave	3.737	3.906		2.09	2.00	4.5	30.0
1,2-Dichloroethane	Ave	0.4541	0.4719		2.08	2.00	3.9	30.0
Cyclohexane	Ave	0.1355	0.1415		2.09	2.00	4.4	30.0
Thiophene	Ave	0.4957	0.5156		2.08	2.00	4.0	30.0
1-Butanol	Ave	0.0492	0.0440		1.79	2.00	-10.6	30.0
Benzene	Ave	0.8198	0.8061		1.97	2.00	-1.7	30.0
Carbon tetrachloride	Ave	0.7915	0.8036		2.03	2.00	1.5	30.0
2,3-Dimethylpentane	Ave	0.1910	0.1965		2.06	2.00	2.9	30.0
Tert-amyl methyl ether	Ave	0.8089	0.7698		1.90	2.00	-4.8	30.0
2,2,4-Trimethylpentane	Ave	0.9528	0.9720		2.04	2.00	2.0	30.0
Heptane	Ave	0.2915	0.2979		2.04	2.00	2.2	30.0
1,2-Dichloropropane	Ave	0.2450	0.2494		2.04	2.00	1.8	30.0
Trichloroethene	Ave	0.3584	0.3470		1.94	2.00	-3.2	30.0
Dibromomethane	Ave	0.3575	0.3576		2.00	2.00	0.0	30.0
Bromodichloromethane	Ave	0.6953	0.7161		2.06	2.00	3.0	30.0
1,4-Dioxane	Ave	0.1136	0.1018		1.79	2.00	-10.4	30.0
Methyl methacrylate	Ave	0.2185	0.1965		1.80	2.00	-10.1	30.0
Methylcyclohexane	Ave	0.6246	0.6358		2.04	2.00	1.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3214	0.2780		1.73	2.00	-13.5	30.0
cis-1,3-Dichloropropene	Ave	0.4960	0.5036		2.03	2.00	1.5	30.0
trans-1,3-Dichloropropene	Ave	0.5058	0.5161		2.04	2.00	2.0	30.0
Toluene	Ave	0.9594	0.9469		1.97	2.00	-1.3	30.0
1,1,2-Trichloroethane	Ave	0.2946	0.2990		2.03	2.00	1.5	30.0
2-Methylthiophene	Ave	0.7973	0.8111		2.04	2.00	1.7	30.0
3-Methylthiophene	Ave	0.7817	0.7889		2.02	2.00	0.9	30.0
2-Hexanone	Ave	0.1867	0.1713		1.84	2.00	-8.3	30.0
Octane	Ave	0.3291	0.3394		2.06	2.00	3.1	30.0
Dibromochloromethane	Ave	0.6197	0.6380		2.06	2.00	3.0	30.0
1,2-Dibromoethane	Ave	0.5261	0.5203		1.98	2.00	-1.1	30.0
Tetrachloroethene	Ave	0.3732	0.3779		2.03	2.00	1.3	30.0
Chlorobenzene	Ave	0.7417	0.7379		1.99	2.00	-0.5	30.0
2,3-Dimethylheptane	Ave	0.5103	0.5257		2.06	2.00	3.0	30.0
Ethylbenzene	Ave	1.287	1.312		2.04	2.00	1.9	30.0
2-Ethylthiophene	Ave	1.007	1.047		2.08	2.00	3.9	30.0
m-Xylene & p-Xylene	Ave	1.004	1.034		4.12	4.00	3.0	30.0
Bromoform	Ave	0.6036	0.6348		2.10	2.00	5.2	30.0
Nonane	Ave	0.4307	0.4621		2.15	2.00	7.3	30.0
Styrene	Ave	0.6469	0.7010		2.17	2.00	8.4	30.0
o-Xylene	Ave	1.054	1.078		2.05	2.00	2.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6702	0.7020		2.10	2.00	4.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: CCVIS 140-6440/2 Calibration Date: 09/01/2016 10:10

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: ECCVI01.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
1,2,3-Trichloropropane	Ave	0.2401	0.2361		1.97	2.00	-1.6	30.0
Isopropylbenzene	Ave	1.406	1.404		2.00	2.00	-0.2	30.0
Propylbenzene	Ave	0.3616	0.3650		2.02	2.00	0.9	30.0
2-Chlorotoluene	Ave	0.3276	0.3307		2.02	2.00	1.0	30.0
4-Ethyltoluene	Ave	1.312	1.335		2.04	2.00	1.8	30.0
1,3,5-Trimethylbenzene	Ave	0.6108	0.6171		2.02	2.00	1.0	30.0
Alpha Methyl Styrene	Ave	0.4859	0.5055		2.08	2.00	4.0	30.0
Decane	Ave	0.5020	0.5531		2.20	2.00	10.2	30.0
tert-Butylbenzene	Ave	1.205	1.209		2.01	2.00	0.3	30.0
1,2,4-Trimethylbenzene	Ave	1.131	1.164		2.06	2.00	2.9	30.0
sec-Butylbenzene	Ave	1.565	1.621		2.07	2.00	3.6	30.0
1,3-Dichlorobenzene	Ave	0.6866	0.6966		2.03	2.00	1.5	30.0
Benzyl chloride	Ave	0.9136	0.9342		2.05	2.00	2.2	30.0
1,4-Dichlorobenzene	Ave	0.6673	0.6771		2.03	2.00	1.5	30.0
4-Isopropyltoluene	Ave	1.292	1.326		2.05	2.00	2.6	30.0
1,2,3-Trimethylbenzene	Ave	0.8539	0.8768		2.05	2.00	2.7	30.0
Butylcyclohexane	Ave	0.8557	0.9099		2.13	2.00	6.3	30.0
1,2-Dichlorobenzene	Ave	0.6696	0.6719		2.01	2.00	0.3	30.0
Indane	Ave	0.9538	0.9810		2.06	2.00	2.9	30.0
Indene	Ave	0.7162	0.7023		1.96	2.00	-1.9	30.0
Butylbenzene	Ave	1.187	1.267		2.14	2.00	6.7	30.0
Undecane	Ave	0.4988	0.5254		2.11	2.00	5.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.9105	0.8976		1.97	2.00	-1.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.2689	0.2545		1.89	2.00	-5.3	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.034	1.032		2.00	2.00	-0.2	30.0
1,2,3,5-Tetramethylbenzene	Ave	0.6339	0.6243		1.97	2.00	-1.5	30.0
1,2,3,4-Tetramethylbenzene	Ave	0.7980	0.7823		1.96	2.00	-2.0	30.0
Dodecane	Ave	0.2998	0.2407		1.61	2.00	-19.7	30.0
1,2,4-Trichlorobenzene	Ave	0.4489	0.3516		1.57	2.00	-21.7	30.0
Naphthalene	Ave	0.8290	0.6210		1.50	2.00	-25.1	30.0
Benzo(b)thiophene	Ave	0.4459	0.2624		1.18	2.00	-41.1*	30.0
Hexachlorobutadiene	Ave	0.6412	0.5959		1.86	2.00	-7.1	30.0
1,2,3-Trichlorobenzene	Ave	0.3697	0.2482		1.34	2.00	-32.9*	30.0
2-Methylnaphthalene	Ave	0.1703	0.0878		3.22	6.25	-48.4	50.0
1-Methylnaphthalene	Ave	0.1438	0.0805		3.50	6.25	-44.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8185	0.8561		4.18	4.00	4.6	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ECCVI01.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Sep-2016 10:10:30 ALS Bottle#: 15 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003369-002
Misc. Info.: P22
Operator ID: 7126 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 16:07:24 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 15:56:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	81	265245	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1292036	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1204822	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	86	1031385	4.00	4.18	
6 Chlorodifluoromethane	67	2.898	2.898	0.000	94	74575	2.00	2.37	
7 Propene	41	2.903	2.903	0.000	96	106800	2.00	2.47	
8 Dichlorodifluoromethane	85	2.946	2.946	0.000	99	659201	2.00	2.36	
9 Chloromethane	52	3.097	3.097	0.000	99	39000	2.00	2.18	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.103	3.103	0.000	96	335794	2.00	2.26	
11 Acetaldehyde	44	3.227	3.227	0.000	91	169624	10.0	9.94	
12 Vinyl chloride	62	3.238	3.238	0.000	98	168098	2.00	2.35	
13 Butane	43	3.313	3.313	0.000	82	178849	2.00	2.29	
14 Butadiene	54	3.313	3.313	0.000	75	103089	2.00	2.28	
15 Bromomethane	94	3.577	3.577	0.000	98	187393	2.00	2.32	
16 Chloroethane	64	3.696	3.696	0.000	98	85059	2.00	2.23	
17 Ethanol	31	3.777	3.777	0.000	99	181106	10.0	9.63	
18 Vinyl bromide	106	3.944	3.944	0.000	98	171912	2.00	2.22	
19 2-Methylbutane	43	3.982	3.982	0.000	86	121724	2.00	2.04	
20 Trichlorofluoromethane	101	4.165	4.165	0.000	99	625114	2.00	2.32	
21 Acrolein	56	4.176	4.176	0.000	98	37046	2.00	2.10	
22 Acetonitrile	40	4.235	4.235	0.000	98	31089	2.00	1.81	
23 Acetone	58	4.273	4.273	0.000	98	141976	6.00	5.61	
24 Isopropyl alcohol	45	4.348	4.348	0.000	95	393148	6.00	5.85	
25 Pentane	72	4.354	4.354	0.000	95	32941	2.00	2.32	
26 Ethyl ether	31	4.499	4.499	0.000	82	87406	2.00	1.99	
27 1,1-Dichloroethene	96	4.780	4.780	0.000	99	166829	2.00	2.06	
28 2-Methyl-2-propanol	59	4.877	4.877	0.000	93	227981	2.00	2.08	
29 Acrylonitrile	53	4.882	4.882	0.000	92	63171	2.00	1.85	
30 1,1,2-Trichloro-1,2,2-trif	101	4.942	4.942	0.000	95	374300	2.00	2.15	
31 Methylene Chloride	84	5.103	5.103	0.000	80	172944	2.00	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.114	5.114	0.000	87	131746	2.00	1.96	
33 Carbon disulfide	76	5.249	5.249	0.000	98	557531	2.00	2.23	
34 trans-1,2-Dichloroethene	96	5.869	5.869	0.000	97	188495	2.00	2.14	
35 2-Methylpentane	43	5.885	5.885	0.000	85	232232	2.00	2.14	
36 Methyl tert-butyl ether	73	5.998	5.998	0.000	93	507091	2.00	1.99	
37 1,1-Dichloroethane	63	6.279	6.279	0.000	99	319855	2.00	2.17	
38 Vinyl acetate	43	6.392	6.392	0.000	98	271673	2.00	2.04	
39 2-Butanone (MEK)	72	6.834	6.834	0.000	98	70124	2.00	1.81	
40 Hexane	56	6.840	6.840	0.000	85	112173	2.00	2.17	
41 Isopropyl ether	45	7.012	7.012	0.000	89	320646	2.00	2.01	
42 cis-1,2-Dichloroethene	96	7.244	7.244	0.000	93	185501	2.00	2.09	
43 Ethyl acetate	43	7.449	7.449	0.000	98	199822	2.00	1.93	
44 Chloroform	83	7.584	7.584	0.000	96	464521	2.00	2.10	
45 Tert-butyl ethyl ether	59	7.681	7.681	0.000	91	402534	2.00	2.01	
46 Tetrahydrofuran	42	7.988	7.988	0.000	76	98935	2.00	1.90	
47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	94	518357	2.00	2.09	
48 1,2-Dichloroethane	62	8.711	8.711	0.000	98	305008	2.00	2.08	
54 Thiophene	84	9.196	9.196	0.000	64	333249	2.00	2.08	
50 Cyclohexane	69	9.196	9.196	0.000	96	91447	2.00	2.09	
51 Benzene	78	9.202	9.202	0.000	95	521049	2.00	1.97	
49 n-Butanol	31	9.202	9.202	0.000	62	28431	2.00	1.79	
52 Carbon tetrachloride	117	9.223	9.223	0.000	97	519428	2.00	2.03	
53 2,3-Dimethylpentane	71	9.342	9.342	0.000	84	127018	2.00	2.06	
55 Tert-amyl methyl ether	73	9.735	9.735	0.000	97	464007	2.00	1.90	
56 Isooctane	57	10.037	10.037	0.000	97	628240	2.00	2.04	
57 n-Heptane	71	10.474	10.474	0.000	77	192549	2.00	2.04	
58 1,2-Dichloropropane	63	10.544	10.544	0.000	85	161208	2.00	2.04	
59 Trichloroethene	130	10.582	10.582	0.000	92	224273	2.00	1.94	
60 Dibromomethane	93	10.668	10.668	0.000	93	231135	2.00	2.00	
61 Dichlorobromomethane	83	10.835	10.835	0.000	98	462841	2.00	2.06	
62 1,4-Dioxane	88	10.868	10.868	0.000	80	65805	2.00	1.79	
63 Methyl methacrylate	41	10.976	10.976	0.000	78	127033	2.00	1.80	
64 Methylcyclohexane	83	11.407	11.407	0.000	90	410968	2.00	2.04	
65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	91	179693	2.00	1.73	
66 cis-1,3-Dichloropropene	75	11.925	11.925	0.000	90	325495	2.00	2.03	
67 trans-1,3-Dichloropropene	75	12.674	12.674	0.000	93	311084	2.00	2.04	
68 Toluene	91	12.777	12.777	0.000	94	570712	2.00	1.97	
69 1,1,2-Trichloroethane	83	12.868	12.868	0.000	98	180192	2.00	2.03	
70 2-Methylthiophene	97	12.938	12.938	0.000	96	488884	2.00	2.04	
71 3-Methylthiophene	97	13.149	13.149	0.000	98	475490	2.00	2.02	
72 2-Hexanone	58	13.294	13.294	0.000	98	103253	2.00	1.84	
73 n-Octane	85	13.532	13.532	0.000	78	204574	2.00	2.06	
74 Chlorodibromomethane	129	13.586	13.586	0.000	96	384548	2.00	2.06	
75 Ethylene Dibromide	107	13.882	13.882	0.000	98	313625	2.00	1.98	
76 Tetrachloroethene	129	13.963	13.963	0.000	94	227777	2.00	2.03	
77 Chlorobenzene	112	14.858	14.858	0.000	91	444757	2.00	1.99	
78 2,3-Dimethylheptane	43	14.912	14.912	0.000	76	316827	2.00	2.06	
79 Ethylbenzene	91	15.166	15.166	0.000	98	791060	2.00	2.04	
80 2-Ethylthiophene	97	15.268	15.268	0.000	98	630791	2.00	2.08	
81 m-Xylene & p-Xylene	91	15.333	15.333	0.000	99	1246968	4.00	4.12	
83 Bromoform	173	15.769	15.769	0.000	94	382590	2.00	2.10	
82 n-Nonane	57	15.786	15.786	0.000	77	278493	2.00	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.802	15.802	0.000	95	422484	2.00	2.17	
85 o-Xylene	91	15.861	15.861	0.000	98	649462	2.00	2.05	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.201	0.000	98	423132	2.00	2.10	
87 1,2,3-Trichloropropane	110	16.357	16.357	0.000	98	142331	2.00	1.97	
88 Isopropylbenzene	105	16.460	16.460	0.000	97	846105	2.00	2.00	
89 N-Propylbenzene	120	17.015	17.015	0.000	99	219986	2.00	2.02	
90 2-Chlorotoluene	126	17.053	17.053	0.000	96	199347	2.00	2.02	
91 4-Ethyltoluene	105	17.177	17.177	0.000	98	804670	2.00	2.04	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	91	371967	2.00	2.02	
93 Alpha Methyl Styrene	118	17.506	17.506	0.000	87	304666	2.00	2.08	
94 n-Decane	57	17.597	17.597	0.000	94	333343	2.00	2.20	
95 tert-Butylbenzene	119	17.716	17.716	0.000	88	728549	2.00	2.01	
96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	96	701488	2.00	2.06	
97 sec-Butylbenzene	105	18.007	18.007	0.000	97	977280	2.00	2.07	
98 1,3-Dichlorobenzene	146	18.013	18.013	0.000	98	419881	2.00	2.03	
99 Benzyl chloride	91	18.099	18.099	0.000	97	563074	2.00	2.05	
100 1,4-Dichlorobenzene	146	18.110	18.110	0.000	91	408088	2.00	2.03	
101 4-Isopropyltoluene	119	18.185	18.185	0.000	96	798966	2.00	2.05	
102 1,2,3-Trimethylbenzene	105	18.234	18.234	0.000	99	528488	2.00	2.05	
103 Butylcyclohexane	83	18.299	18.299	0.000	95	548432	2.00	2.13	
104 1,2-Dichlorobenzene	146	18.487	18.487	0.000	88	404960	2.00	2.01	
105 2,3-Dihydroindene	117	18.493	18.493	0.000	93	591256	2.00	2.06	
106 Indene	116	18.627	18.627	0.000	92	423318	2.00	1.96	
107 n-Butylbenzene	91	18.649	18.649	0.000	98	763491	2.00	2.14	
108 Undecane	57	19.000	19.000	0.000	86	316646	2.00	2.11	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	541027	2.00	1.97	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.129	0.000	94	153422	2.00	1.89	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	621786	2.00	2.00	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.496	0.000	94	376261	2.00	1.97	
113 1,2,3,4-Tetramethylbenzene	119	19.889	19.889	0.000	96	471505	2.00	1.96	
114 Dodecane	57	20.073	20.073	0.000	92	145055	2.00	1.61	
115 1,2,4-Trichlorobenzene	180	20.229	20.229	0.000	93	211928	2.00	1.57	
116 Naphthalene	128	20.353	20.353	0.000	98	374297	2.00	1.50	
117 Benzo(b)thiophene	134	20.450	20.450	0.000	99	158164	2.00	1.18	
118 Hexachlorobutadiene	225	20.569	20.569	0.000	95	359167	2.00	1.86	
119 1,2,3-Trichlorobenzene	180	20.628	20.628	0.000	92	149622	2.00	1.34	
120 2-Methylnaphthalene	142	21.458	21.458	0.000	99	165419	6.25	3.22	
121 1-Methylnaphthalene	142	21.658	21.658	0.000	98	151604	6.25	3.50	
A 124 Toluene Range	1	12.777	(12.747-12.807)		0	1386752	2.00	1.98	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	1462681	2.00	2.09	
S 126 Xylenes, Total	100				0		6.00	6.17	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.23	

Reagents:

40CV101P_00022	Amount Added: 100.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

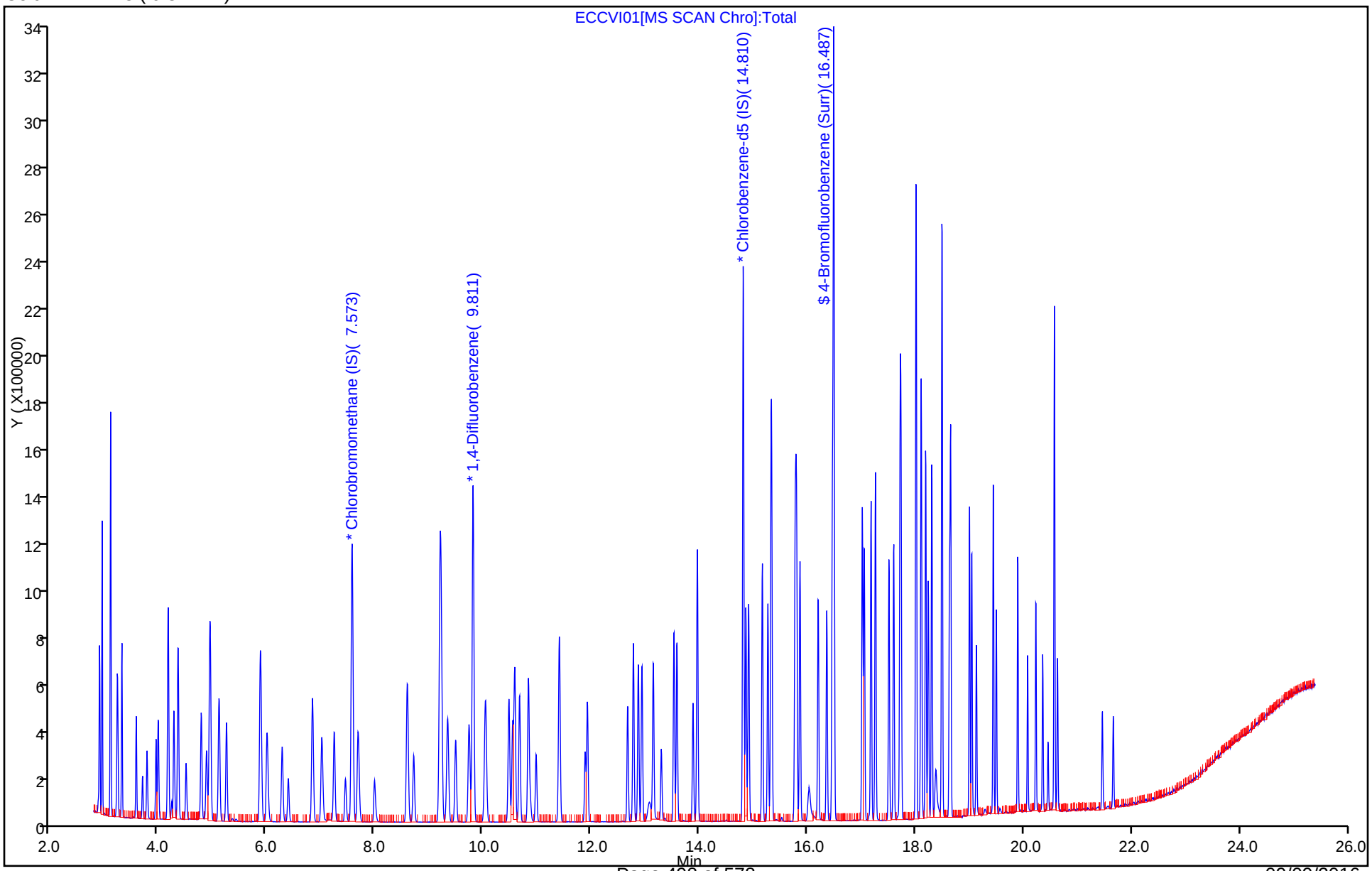
Report Date: 01-Sep-2016 16:07:25 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ECCVI01.D

Injection Date:	01-Sep-2016 10:10:30	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#:	15
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.: 140-5720-1

SDG No.:

Lab Sample ID: CCVIS 140-6493/2 Calibration Date: 09/02/2016 13:50

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: ECCVI02A.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	0.4745	0.5238		2.21	2.00	10.4	30.0
Propene	Ave	0.6524	0.7306		2.24	2.00	12.0	30.0
Dichlorodifluoromethane	Ave	4.206	4.617		2.20	2.00	9.8	30.0
Chloromethane	Ave	0.2701	0.2774		2.06	2.00	2.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.236	2.536		2.27	2.00	13.4	30.0
Acetaldehyde	Ave	0.2573	0.2404		9.35	10.0	-6.5	30.0
Vinyl chloride	Ave	1.078	1.300		2.41	2.00	20.6	30.0
1,3-Butadiene	Ave	0.6822	0.7786		2.28	2.00	14.1	30.0
Butane	Ave	1.176	1.385		2.36	2.00	17.8	30.0
Bromomethane	Ave	1.220	1.384		2.27	2.00	13.4	30.0
Chloroethane	Ave	0.5740	0.6547		2.28	2.00	14.1	30.0
Ethanol	Ave	0.2836	0.2832		9.99	10.0	-0.1	30.0
Vinyl bromide	Ave	1.166	1.381		2.37	2.00	18.4	30.0
2-Methylbutane	Ave	0.8988	0.9704		2.16	2.00	8.0	30.0
Trichlorofluoromethane	Ave	4.072	4.543		2.23	2.00	11.6	30.0
Acrolein	Ave	0.2661	0.3081		2.32	2.00	15.8	30.0
Acetonitrile	Ave	0.2589	0.2620		2.03	2.00	1.2	30.0
Acetone	Ave	0.3815	0.3599		5.66	6.00	-5.7	30.0
Isopropyl alcohol	Ave	1.014	0.9651		5.72	6.00	-4.8	30.0
Pentane	Ave	0.2144	0.2686		2.51	2.00	25.2	30.0
Ethyl ether	Ave	0.6609	0.7183		2.17	2.00	8.7	30.0
1,1-Dichloroethene	Ave	1.220	1.309		2.15	2.00	7.3	30.0
t-Butyl alcohol	Ave	1.656	1.734		2.09	2.00	4.7	30.0
Acrylonitrile	Ave	0.5155	0.5001		1.94	2.00	-3.0	30.0
1,1,2-Trichlorotrifluoroethane	Ave	2.630	2.924		2.23	2.00	11.2	30.0
Methylene Chloride	Ave	1.255	1.319		2.10	2.00	5.1	30.0
3-Chloropropene	Ave	1.016	0.8971		1.77	2.00	-11.7	30.0
Carbon disulfide	Ave	3.766	4.182		2.22	2.00	11.1	30.0
trans-1,2-Dichloroethene	Ave	1.326	1.449		2.19	2.00	9.2	30.0
2-Methylpentane	Ave	1.640	1.938		2.37	2.00	18.2	30.0
Methyl tert-butyl ether	Ave	3.835	3.942		2.06	2.00	2.8	30.0
1,1-Dichloroethane	Ave	2.224	2.396		2.16	2.00	7.7	30.0
Vinyl acetate	Ave	2.009	2.126		2.12	2.00	5.8	30.0
2-Butanone	Ave	0.5829	0.5465		1.88	2.00	-6.3	30.0
Hexane	Ave	0.7813	0.8223		2.11	2.00	5.3	30.0
Isopropyl ether	Ave	2.404	2.455		2.04	2.00	2.1	30.0
cis-1,2-Dichloroethene	Ave	1.339	1.467		2.19	2.00	9.6	30.0
Ethyl acetate	Ave	1.564	1.537		1.97	2.00	-1.7	30.0
Chloroform	Ave	3.335	3.450		2.07	2.00	3.4	30.0
Tert-butyl ethyl ether	Ave	3.019	3.086		2.05	2.00	2.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: CCVIS 140-6493/2 Calibration Date: 09/02/2016 13:50

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: ECCVI02A.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
Tetrahydrofuran	Ave	0.7832	0.7708		1.97	2.00	-1.6	30.0
1,1,1-Trichloroethane	Ave	3.737	3.820		2.05	2.00	2.2	30.0
1,2-Dichloroethane	Ave	0.4541	0.4950		2.18	2.00	9.0	30.0
Benzene	Ave	0.8198	0.8994		2.20	2.00	9.7	30.0
Cyclohexane	Ave	0.1355	0.1545		2.28	2.00	14.0	30.0
Thiophene	Ave	0.4957	0.5625		2.27	2.00	13.5	30.0
1-Butanol	Ave	0.0492	0.0469		1.91	2.00	-4.7	30.0
Carbon tetrachloride	Ave	0.7915	0.8749		2.21	2.00	10.5	30.0
2,3-Dimethylpentane	Ave	0.1910	0.1957		2.05	2.00	2.5	30.0
Tert-amyl methyl ether	Ave	0.8089	0.8916		2.21	2.00	10.2	30.0
2,2,4-Trimethylpentane	Ave	0.9528	1.061		2.23	2.00	11.4	30.0
Heptane	Ave	0.2915	0.3194		2.19	2.00	9.5	30.0
1,2-Dichloropropane	Ave	0.2450	0.2710		2.21	2.00	10.6	30.0
Trichloroethene	Ave	0.3584	0.3903		2.18	2.00	8.9	30.0
Dibromomethane	Ave	0.3575	0.3946		2.21	2.00	10.4	30.0
Bromodichloromethane	Ave	0.6953	0.7677		2.21	2.00	10.4	30.0
1,4-Dioxane	Ave	0.1136	0.1069		1.88	2.00	-5.9	30.0
Methyl methacrylate	Ave	0.2185	0.2233		2.04	2.00	2.2	30.0
Methylcyclohexane	Ave	0.6246	0.5549		1.78	2.00	-11.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3214	0.2985		1.86	2.00	-7.1	30.0
cis-1,3-Dichloropropene	Ave	0.4960	0.5645		2.28	2.00	13.8	30.0
trans-1,3-Dichloropropene	Ave	0.5058	0.5742		2.27	2.00	13.5	30.0
Toluene	Ave	0.9594	1.093		2.28	2.00	13.9	30.0
1,1,2-Trichloroethane	Ave	0.2946	0.3269		2.22	2.00	11.0	30.0
2-Methylthiophene	Ave	0.7973	0.9481		2.38	2.00	18.9	30.0
3-Methylthiophene	Ave	0.7817	0.9673		2.48	2.00	23.7	30.0
2-Hexanone	Ave	0.1867	0.1813		1.94	2.00	-2.9	30.0
Octane	Ave	0.3291	0.3858		2.35	2.00	17.2	30.0
Dibromochloromethane	Ave	0.6197	0.6908		2.23	2.00	11.5	30.0
1,2-Dibromoethane	Ave	0.5261	0.5899		2.24	2.00	12.1	30.0
Tetrachloroethene	Ave	0.3732	0.4198		2.25	2.00	12.5	30.0
Chlorobenzene	Ave	0.7417	0.8527		2.30	2.00	15.0	30.0
2,3-Dimethylheptane	Ave	0.5103	0.5903		2.31	2.00	15.7	30.0
Ethylbenzene	Ave	1.287	1.475		2.29	2.00	14.6	30.0
2-Ethylthiophene	Ave	1.007	1.163		2.31	2.00	15.5	30.0
m-Xylene & p-Xylene	Ave	1.004	1.160		4.63	4.00	15.6	30.0
Bromoform	Ave	0.6036	0.6542		2.17	2.00	8.4	30.0
Nonane	Ave	0.4307	0.5221		2.43	2.00	21.2	30.0
Styrene	Ave	0.6469	0.8121		2.51	2.00	25.5	30.0
o-Xylene	Ave	1.054	1.193		2.27	2.00	13.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6702	0.7897		2.36	2.00	17.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Lab Sample ID: CCVIS 140-6493/2 Calibration Date: 09/02/2016 13:50

Instrument ID: ME Calib Start Date: 08/23/2016 17:03

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 08/23/2016 23:02

Lab File ID: ECCVI02A.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
1,2,3-Trichloropropane	Ave	0.2401	0.2683		2.24	2.00	11.8	30.0
Isopropylbenzene	Ave	1.406	1.630		2.32	2.00	15.9	30.0
Propylbenzene	Ave	0.3616	0.4364		2.42	2.00	20.7	30.0
2-Chlorotoluene	Ave	0.3276	0.3896		2.38	2.00	18.9	30.0
4-Ethyltoluene	Ave	1.312	1.493		2.28	2.00	13.8	30.0
1,3,5-Trimethylbenzene	Ave	0.6108	0.7206		2.36	2.00	18.0	30.0
Alpha Methyl Styrene	Ave	0.4859	0.5792		2.38	2.00	19.2	30.0
Decane	Ave	0.5020	0.6555		2.61	2.00	30.6*	30.0
tert-Butylbenzene	Ave	1.205	1.404		2.33	2.00	16.5	30.0
1,2,4-Trimethylbenzene	Ave	1.131	1.327		2.35	2.00	17.4	30.0
sec-Butylbenzene	Ave	1.565	1.869		2.39	2.00	19.4	30.0
1,3-Dichlorobenzene	Ave	0.6866	0.8034		2.34	2.00	17.0	30.0
Benzyl chloride	Ave	0.9136	1.101		2.41	2.00	20.5	30.0
1,4-Dichlorobenzene	Ave	0.6673	0.7858		2.36	2.00	17.8	30.0
4-Isopropyltoluene	Ave	1.292	1.528		2.37	2.00	18.3	30.0
1,2,3-Trimethylbenzene	Ave	0.8539	1.070		2.51	2.00	25.3	30.0
Butylcyclohexane	Ave	0.8557	0.9834		2.30	2.00	14.9	30.0
1,2-Dichlorobenzene	Ave	0.6696	0.7758		2.32	2.00	15.9	30.0
Indane	Ave	0.9538	1.048		2.20	2.00	9.9	30.0
Indene	Ave	0.7162	1.009		2.82	2.00	40.8*	30.0
Butylbenzene	Ave	1.187	1.478		2.49	2.00	24.5	30.0
Undecane	Ave	0.4988	0.6457		2.59	2.00	29.5	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.9105	1.316		2.89	2.00	44.6*	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.2689	0.2044		1.52	2.00	-24.0	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.034	1.323		2.56	2.00	27.9	30.0
1,2,3,5-Tetramethylbenzene	Ave	0.6339	0.8386		2.65	2.00	32.3*	30.0
1,2,3,4-Tetramethylbenzene	Ave	0.7980	1.033		2.59	2.00	29.4	30.0
Dodecane	Ave	0.2998	0.3351		2.24	2.00	11.8	30.0
1,2,4-Trichlorobenzene	Ave	0.4489	0.5199		2.32	2.00	15.8	30.0
Naphthalene	Ave	0.8290	0.9200		2.22	2.00	11.0	30.0
Benzo(b)thiophene	Ave	0.4459	0.4384		1.97	2.00	-1.7	30.0
Hexachlorobutadiene	Ave	0.6412	0.7377		2.30	2.00	15.0	30.0
1,2,3-Trichlorobenzene	Ave	0.3697	0.4154		2.25	2.00	12.4	30.0
2-Methylnaphthalene	Ave	0.1703	0.0573		2.10	6.25	-66.4*	50.0
1-Methylnaphthalene	Ave	0.1438	0.0477		2.07	6.25	-66.8*	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8185	0.8309		4.06	4.00	1.5	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ECCVI02A.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Sep-2016 13:50:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003370-002
Misc. Info.: S14
Operator ID: 403648 Instrument ID: ME
Sublist: chrom-ME_TO15*sub4

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 18:25:46 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 18:12:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.573	0.000	81	310163	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.816	0.000	94	1394294	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1286927	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	1069362	4.00	4.06	
6 Chlorodifluoromethane	67	2.898	2.898	0.000	94	81278	2.00	2.21	
7 Propene	41	2.909	2.909	0.000	95	113365	2.00	2.24	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	99	716404	2.00	2.20	
9 Chloromethane	52	3.098	3.098	0.000	98	43044	2.00	2.06	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.108	0.000	98	393429	2.00	2.27	
11 Acetaldehyde	44	3.232	3.232	0.000	92	186537	10.0	9.35	
12 Vinyl chloride	62	3.243	3.243	0.000	98	201728	2.00	2.41	
14 Butadiene	54	3.313	3.313	0.000	75	120805	2.00	2.28	
13 Butane	43	3.313	3.313	0.000	83	214964	2.00	2.36	
15 Bromomethane	94	3.577	3.577	0.000	98	214798	2.00	2.27	
16 Chloroethane	64	3.696	3.696	0.000	98	101592	2.00	2.28	
17 Ethanol	31	3.782	3.782	0.000	99	219745	10.0	10.0	
18 Vinyl bromide	106	3.950	3.950	0.000	98	214301	2.00	2.37	
19 2-Methylbutane	43	3.987	3.987	0.000	86	150565	2.00	2.16	
20 Trichlorofluoromethane	101	4.171	4.171	0.000	99	704968	2.00	2.23	
21 Acrolein	56	4.181	4.181	0.000	97	47799	2.00	2.32	
22 Acetonitrile	40	4.241	4.241	0.000	99	40660	2.00	2.03	
23 Acetone	58	4.278	4.278	0.000	98	167562	6.00	5.66	
24 Isopropyl alcohol	45	4.354	4.354	0.000	92	449256	6.00	5.72	
25 Pentane	72	4.359	4.359	0.000	96	41671	2.00	2.51	
26 Ethyl ether	31	4.505	4.505	0.000	81	111454	2.00	2.17	
27 1,1-Dichloroethene	96	4.785	4.785	0.000	99	203084	2.00	2.15	
28 2-Methyl-2-propanol	59	4.882	4.882	0.000	92	269055	2.00	2.09	
29 Acrylonitrile	53	4.888	4.888	0.000	92	77591	2.00	1.94	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.947	0.000	96	453707	2.00	2.23	
31 Methylene Chloride	84	5.109	5.109	0.000	79	204710	2.00	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.125	5.125	0.000	89	139192	2.00	1.77	
33 Carbon disulfide	76	5.249	5.249	0.000	98	648877	2.00	2.22	
34 trans-1,2-Dichloroethene	96	5.875	5.875	0.000	97	224755	2.00	2.19	
35 2-Methylpentane	43	5.891	5.891	0.000	86	300769	2.00	2.37	
36 Methyl tert-butyl ether	73	6.004	6.004	0.000	93	611675	2.00	2.06	
37 1,1-Dichloroethane	63	6.284	6.284	0.000	99	371797	2.00	2.16	
38 Vinyl acetate	43	6.398	6.398	0.000	99	329943	2.00	2.12	
39 2-Butanone (MEK)	72	6.834	6.834	0.000	98	84790	2.00	1.88	
40 Hexane	56	6.845	6.845	0.000	84	127597	2.00	2.11	
41 Isopropyl ether	45	7.018	7.018	0.000	89	381018	2.00	2.04	
42 cis-1,2-Dichloroethene	96	7.244	7.244	0.000	92	227599	2.00	2.19	
43 Ethyl acetate	43	7.455	7.455	0.000	97	238512	2.00	1.97	
44 Chloroform	83	7.589	7.589	0.000	97	535243	2.00	2.07	
45 Tert-butyl ethyl ether	59	7.686	7.686	0.000	91	478941	2.00	2.05	
46 Tetrahydrofuran	42	7.988	7.988	0.000	74	119593	2.00	1.97	
47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	94	592727	2.00	2.05	
48 1,2-Dichloroethane	62	8.716	8.716	0.000	99	345272	2.00	2.18	
50 Cyclohexane	69	9.202	9.202	0.000	91	107789	2.00	2.28	
54 Thiophene	84	9.202	9.202	0.000	65	392371	2.00	2.27	
51 Benzene	78	9.202	9.202	0.000	94	627350	2.00	2.20	
49 n-Butanol	31	9.207	9.207	0.000	55	32717	2.00	1.91	
52 Carbon tetrachloride	117	9.229	9.229	0.000	97	610240	2.00	2.21	
53 2,3-Dimethylpentane	71	9.342	9.342	0.000	85	136526	2.00	2.05	
55 Tert-amyl methyl ether	73	9.741	9.741	0.000	96	574095	2.00	2.21	
56 Isooctane	57	10.043	10.043	0.000	97	740077	2.00	2.23	
57 n-Heptane	71	10.474	10.474	0.000	77	222752	2.00	2.19	
58 1,2-Dichloropropane	63	10.544	10.544	0.000	85	189040	2.00	2.21	
59 Trichloroethene	130	10.588	10.588	0.000	94	272252	2.00	2.18	
60 Dibromomethane	93	10.674	10.674	0.000	95	275264	2.00	2.21	
61 Dichlorobromomethane	83	10.836	10.836	0.000	97	535516	2.00	2.21	
62 1,4-Dioxane	88	10.873	10.873	0.000	80	74586	2.00	1.88	
63 Methyl methacrylate	41	10.981	10.981	0.000	78	155721	2.00	2.04	
64 Methylcyclohexane	83	11.413	11.413	0.000	90	387034	2.00	1.78	
65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	92	208216	2.00	1.86	
66 cis-1,3-Dichloropropene	75	11.930	11.930	0.000	90	393755	2.00	2.28	
67 trans-1,3-Dichloropropene	75	12.674	12.674	0.000	92	369692	2.00	2.27	
68 Toluene	91	12.782	12.782	0.000	94	703410	2.00	2.28	
69 1,1,2-Trichloroethane	83	12.869	12.869	0.000	98	210474	2.00	2.22	
70 2-Methylthiophene	97	12.939	12.939	0.000	96	610419	2.00	2.38	
71 3-Methylthiophene	97	13.149	13.149	0.000	97	622759	2.00	2.48	
72 2-Hexanone	58	13.295	13.295	0.000	98	116741	2.00	1.94	
73 n-Octane	85	13.532	13.532	0.000	78	248361	2.00	2.35	
74 Chlorodibromomethane	129	13.586	13.586	0.000	97	444746	2.00	2.23	
75 Ethylene Dibromide	107	13.882	13.882	0.000	98	379785	2.00	2.24	
76 Tetrachloroethene	129	13.963	13.963	0.000	95	270260	2.00	2.25	
77 Chlorobenzene	112	14.858	14.858	0.000	91	548966	2.00	2.30	
78 2,3-Dimethylheptane	43	14.912	14.912	0.000	76	380035	2.00	2.31	
79 Ethylbenzene	91	15.166	15.166	0.000	98	949750	2.00	2.29	
80 2-Ethylthiophene	97	15.268	15.268	0.000	98	748795	2.00	2.31	
81 m-Xylene & p-Xylene	91	15.333	15.333	0.000	99	1493873	4.00	4.63	
83 Bromoform	173	15.770	15.770	0.000	95	421158	2.00	2.17	
82 n-Nonane	57	15.786	15.786	0.000	77	336143	2.00	2.43	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	15.802	15.802	0.000	96	522846	2.00	2.51	
85 o-Xylene	91	15.861	15.861	0.000	98	768350	2.00	2.27	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.201	0.000	99	508408	2.00	2.36	
87 1,2,3-Trichloropropane	110	16.357	16.357	0.000	98	172744	2.00	2.24	
88 Isopropylbenzene	105	16.460	16.460	0.000	97	1049155	2.00	2.32	
89 N-Propylbenzene	120	17.015	17.015	0.000	99	280936	2.00	2.42	
90 2-Chlorotoluene	126	17.053	17.053	0.000	96	250837	2.00	2.38	
91 4-Ethyltoluene	105	17.177	17.177	0.000	98	961072	2.00	2.28	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	92	463932	2.00	2.36	
93 Alpha Methyl Styrene	118	17.506	17.506	0.000	86	372870	2.00	2.38	
94 n-Decane	57	17.598	17.598	0.000	93	422014	2.00	2.61	
95 tert-Butylbenzene	119	17.716	17.716	0.000	89	903659	2.00	2.33	
96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	96	854606	2.00	2.35	
97 sec-Butylbenzene	105	18.007	18.007	0.000	98	1203447	2.00	2.39	
98 1,3-Dichlorobenzene	146	18.013	18.013	0.000	98	517263	2.00	2.34	
99 Benzyl chloride	91	18.099	18.099	0.000	97	708912	2.00	2.41	
100 1,4-Dichlorobenzene	146	18.110	18.110	0.000	92	505877	2.00	2.36	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	984042	2.00	2.37	
102 1,2,3-Trimethylbenzene	105	18.234	18.234	0.000	98	688911	2.00	2.51	
103 Butylcyclohexane	83	18.299	18.299	0.000	95	633104	2.00	2.30	
104 1,2-Dichlorobenzene	146	18.487	18.487	0.000	89	499456	2.00	2.32	
105 2,3-Dihydroindene	117	18.493	18.493	0.000	94	674783	2.00	2.20	
106 Indene	116	18.628	18.628	0.000	92	649294	2.00	2.82	
107 n-Butylbenzene	91	18.649	18.649	0.000	98	951533	2.00	2.49	
108 Undecane	57	19.000	19.000	0.000	86	415676	2.00	2.59	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	847555	2.00	2.89	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.129	0.000	94	131577	2.00	1.52	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	96	851451	2.00	2.56	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.496	0.000	94	539871	2.00	2.65	
113 1,2,3,4-Tetramethylbenzene	119	19.889	19.889	0.000	96	664791	2.00	2.59	
114 Dodecane	57	20.073	20.073	0.000	93	215724	2.00	2.24	
115 1,2,4-Trichlorobenzene	180	20.229	20.229	0.000	93	334689	2.00	2.32	
116 Naphthalene	128	20.353	20.353	0.000	98	592304	2.00	2.22	
117 Benzo(b)thiophene	134	20.450	20.450	0.000	99	282250	2.00	1.97	
118 Hexachlorobutadiene	225	20.569	20.569	0.000	95	474915	2.00	2.30	
119 1,2,3-Trichlorobenzene	180	20.628	20.628	0.000	93	267438	2.00	2.25	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	99	115202	6.25	2.10	
121 1-Methylnaphthalene	142	21.658	21.658	0.000	99	95935	6.25	2.07	
A 124 Toluene Range	1	12.782	(12.752-12.812)		0	1790413	2.00	2.37	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	1719368	2.00	2.28	
S 126 Xylenes, Total	100				0		6.00	6.89	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.38	

Reagents:

40CV101S_00014	Amount Added: 100.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

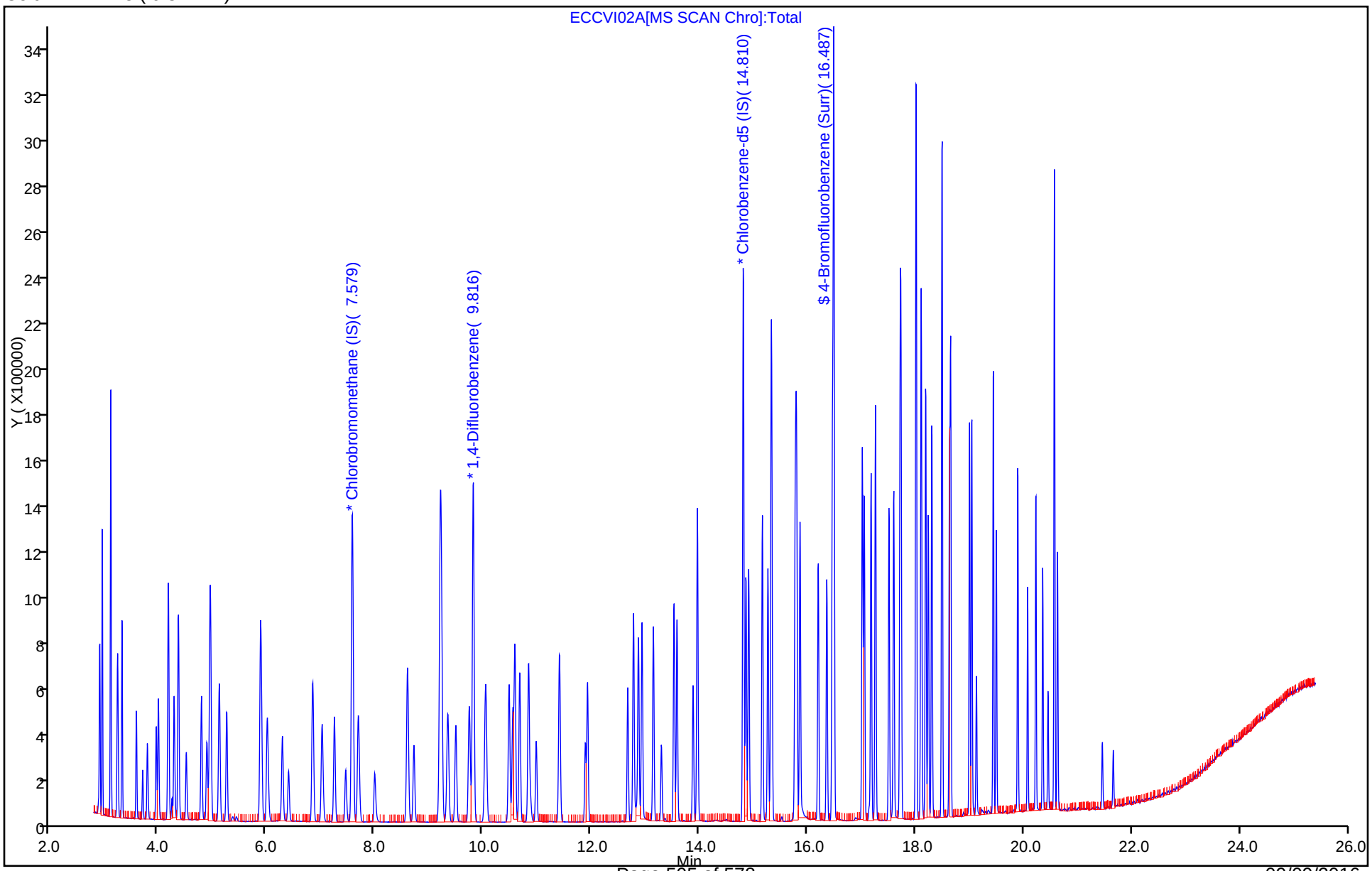
Report Date: 02-Sep-2016 18:25:47 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ECCVI02A.D

Injection Date:	02-Sep-2016 13:50:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	CCVIS			Worklist Smp#:	2
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
Target Compound Quantitation Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EBFBH23A.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	23-Aug-2016 15:48:30	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB,,3,,,BFB				
Misc. Info.:	140-0003339-001				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	25-Aug-2016 09:55:56	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK025				
First Level Reviewer: barlozhetskayaa		Date:	25-Aug-2016 09:55:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	4.980	4.969	0.011	0	2106098	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

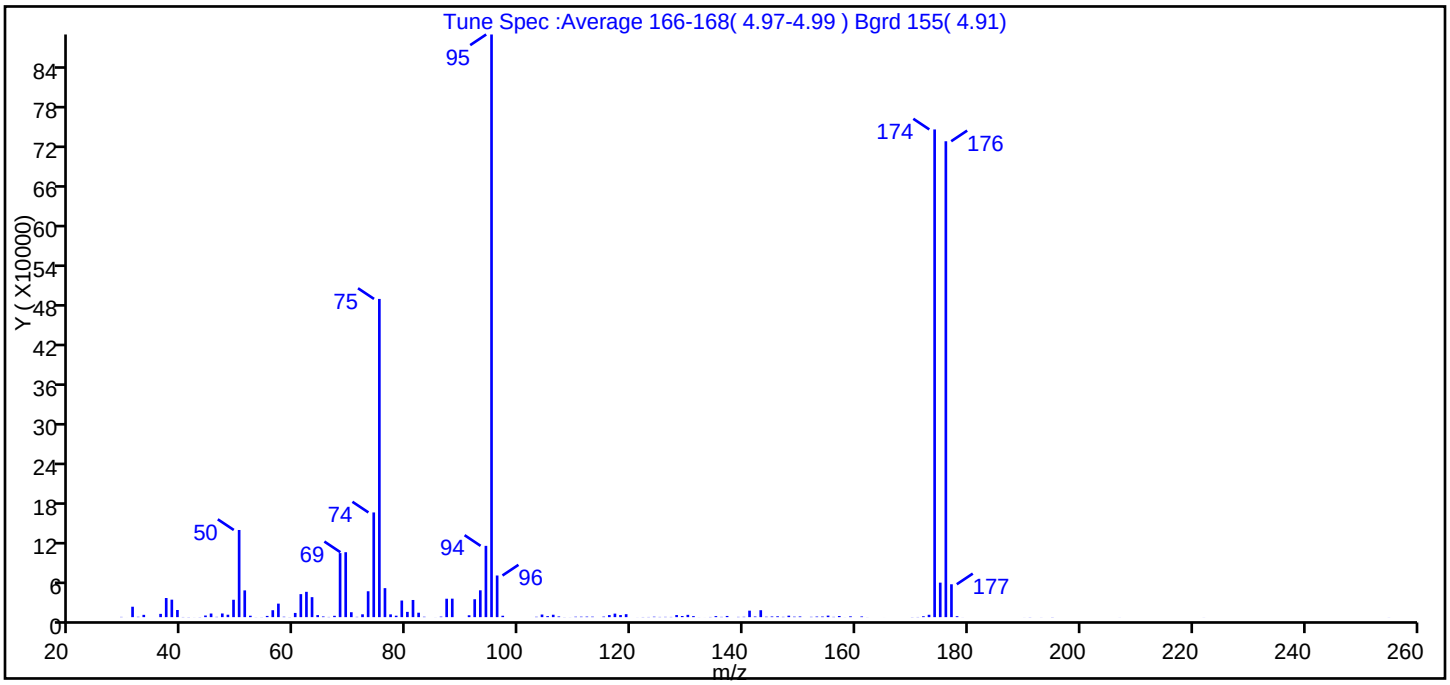
40MXSUR_00001 Amount Added: 40.00 Units: mL

MS Tune Report

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EBFBH23A.D
Injection Date: 23-Aug-2016 15:48:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.0
75	30 to 60% of m/z 95	54.6
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	83.7
175	5 to 9% of m/z 174	5.9 (7.1)
176	Greater than 95% but less than 101% of m/z 174	81.7 (97.6)
177	5 to 9% of m/z 176	5.6 (6.9)

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EBFBH23A.D\ME_TO15.rslt\spectra.d
Injection Date: 23-Aug-2016 15:48:30
Spectrum: Tune Spec :Average 166-168(4.97-4.99) Bgrd 155(4.91)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	353	66.00	324	109.00	90	147.00	459
30.00	20	67.00	2019	110.00	640	148.00	2205
31.00	15724	68.00	96744	111.00	706	149.00	731
32.00	525	69.00	98080	112.00	826	150.00	1049
33.00	3479	70.00	7425	113.00	719	152.00	478
36.00	4944	71.00	436	115.00	804	153.00	902
37.00	28880	72.00	4288	116.00	3122	154.00	921
38.00	26400	73.00	39112	117.00	5322	155.00	2309
39.00	10791	74.00	158144	118.00	3169	156.00	422
40.00	248	75.00	480640	119.00	4472	157.00	1717
41.00	214	76.00	43808	121.00	70	158.00	68
42.00	77	77.00	4176	122.00	233	159.00	1202
43.00	205	78.00	2190	123.00	273	161.00	1054
44.00	2450	79.00	25104	124.00	656	162.00	79
45.00	5481	80.00	7957	125.00	336	165.00	20
46.00	415	81.00	25920	126.00	415	170.00	198
47.00	5538	82.00	6698	127.00	325	171.00	252
48.00	3663	83.00	585	128.00	3166	172.00	1339
49.00	26272	85.00	74	129.00	1715	173.00	3574
50.00	131648	86.00	796	130.00	3472	174.00	736640
51.00	40424	87.00	27808	131.00	1539	175.00	52120
52.00	2146	88.00	27928	132.00	75	176.00	718784
53.00	113	91.00	2815	133.00	41	177.00	49664
54.00	152	92.00	27056	134.00	278	178.00	1401
55.00	1859	93.00	40536	135.00	1594	179.00	67
56.00	10468	94.00	107680	136.00	403	190.00	67
57.00	20408	95.00	880064	137.00	1792	191.00	183
58.00	599	96.00	62904	139.00	389	193.00	92
59.00	169	97.00	2103	140.00	545	195.00	204
60.00	6366	103.00	547	141.00	9790	207.00	70
61.00	34768	104.00	3958	142.00	991	222.00	75
62.00	38248	105.00	1515	143.00	10466	255.00	87
63.00	30184	106.00	3641	144.00	648		

Report Date: 25-Aug-2016 09:55:59 Chrom Revision: 2.2 16-Aug-2016 13:13:02
Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EBFBH23A.D\ME_TO15.rslt\spectra.d
Injection Date: 23-Aug-2016 15:48:30
Spectrum: Tune Spec :Average 166-168(4.97-4.99) Bgrd 155(4.91)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
64.00	3081	107.00	1048	145.00	1029		
65.00	1014	108.00	146	146.00	1282		

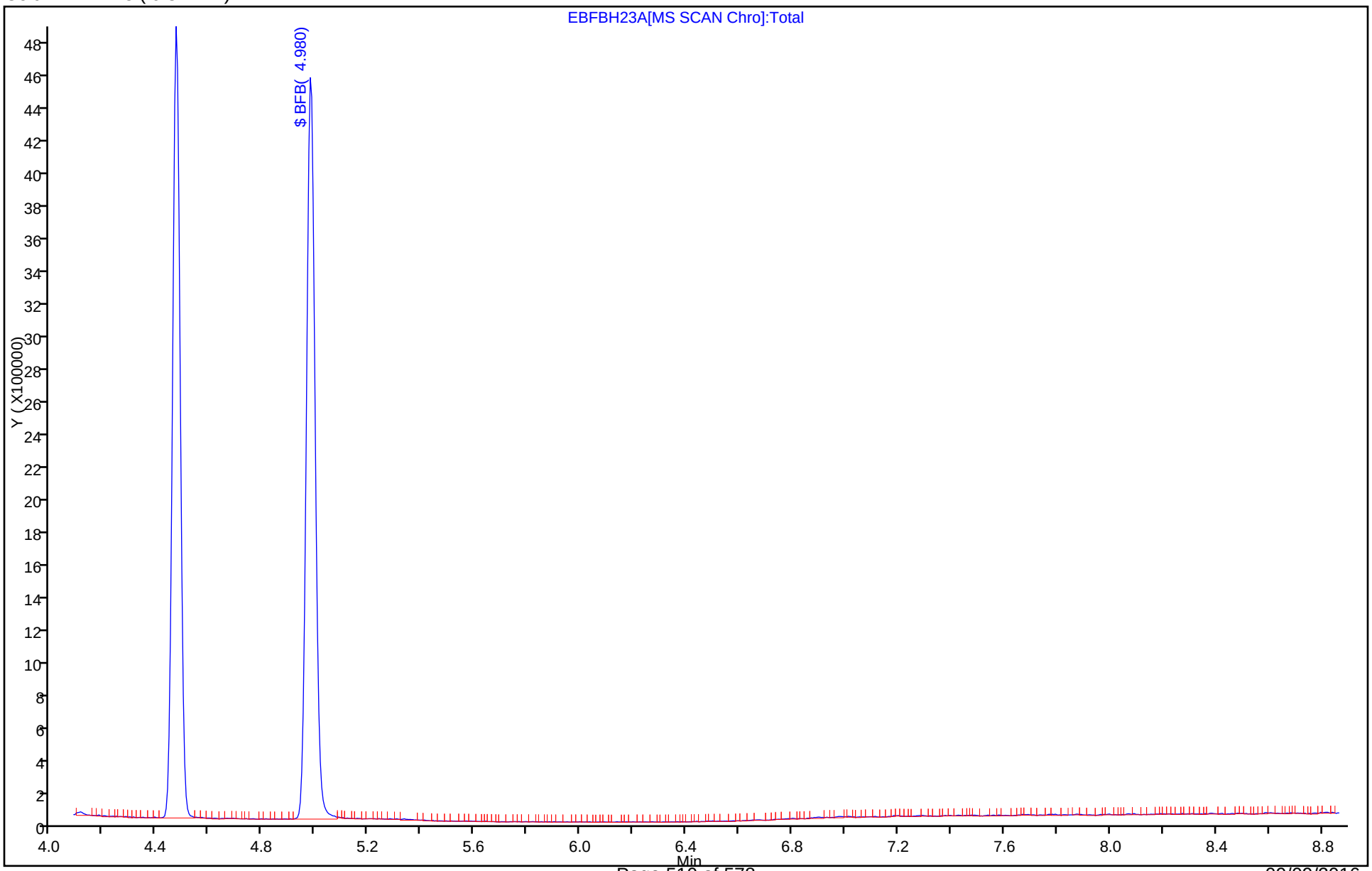
Report Date: 25-Aug-2016 09:55:59 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EBFBH23A.D

Injection Date:	23-Aug-2016 15:48:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 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:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EBFBI01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	01-Sep-2016 09:39:30	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003369-001				
Misc. Info.:	BFB				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 15:53:14	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				
First Level Reviewer: barlozhetskayaa		Date:	01-Sep-2016 15:53:13		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	4.964	4.964	0.000	0	2218543	NR	NR	8

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test

Reagents:

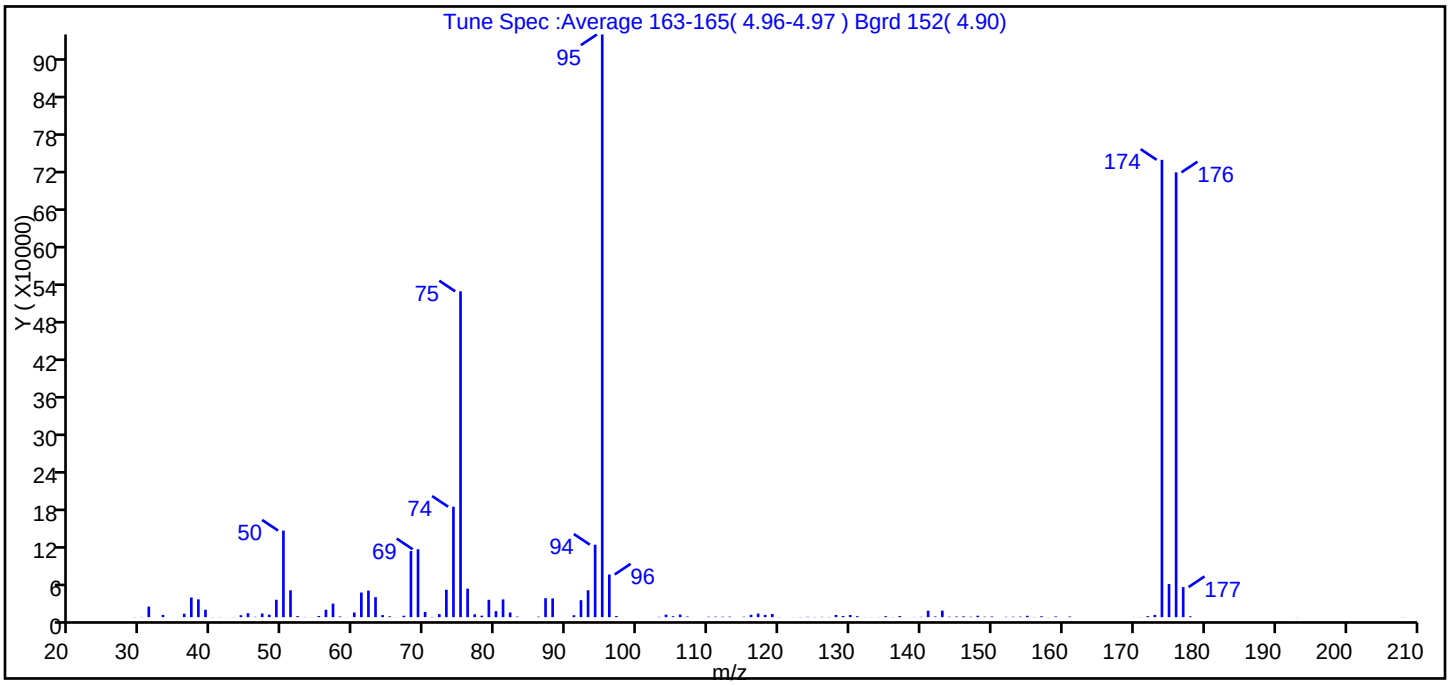
40MXSUR_00001 Amount Added: 40.00 Units: mL

MS Tune Report

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EBFBI01.D
Injection Date: 01-Sep-2016 09:39:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	14.9*
75	30 to 60% of m/z 95	55.9
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	78.5
175	5 to 9% of m/z 174	5.7 (7.2)
176	Greater than 95% but less than 101% of m/z 174	76.3 (97.3)
177	5 to 9% of m/z 176	5.2 (6.8)

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EBFBI01.D\ME_TO15.rslt\spectra.d
Injection Date: 01-Sep-2016 09:39:30
Spectrum: Tune Spec :Average 163-165(4.96-4.97) Bgrd 152(4.90)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	273	64.00	3273	105.00	1462	141.00	10281
30.00	335	65.00	1261	106.00	4175	142.00	1096
31.00	16904	66.00	171	107.00	945	143.00	10432
33.00	3587	67.00	2236	110.00	695	144.00	729
36.00	5504	68.00	105552	111.00	808	145.00	996
37.00	31360	69.00	108408	112.00	709	146.00	1238
38.00	28432	70.00	8381	113.00	797	147.00	651
39.00	11805	71.00	402	115.00	704	148.00	2274
40.00	183	72.00	4838	116.00	3715	149.00	669
41.00	268	73.00	43824	117.00	5750	150.00	1067
42.00	102	74.00	176384	118.00	3568	152.00	599
43.00	259	75.00	520384	119.00	5071	153.00	660
44.00	3131	76.00	45576	120.00	271	154.00	811
45.00	6266	77.00	4550	122.00	152	155.00	2146
46.00	558	78.00	2328	123.00	291	156.00	312
47.00	5785	79.00	27720	124.00	560	157.00	1436
48.00	3936	80.00	9574	125.00	320	158.00	167
49.00	27776	81.00	28320	126.00	465	159.00	1106
50.00	138240	82.00	7477	127.00	338	161.00	1041
51.00	42904	83.00	877	128.00	3480	170.00	145
52.00	1686	86.00	806	129.00	1864	171.00	161
53.00	294	87.00	30272	130.00	3460	172.00	1569
54.00	105	88.00	29952	131.00	1552	173.00	3582
55.00	1888	91.00	3056	132.00	191	174.00	730432
56.00	11885	92.00	27136	133.00	218	175.00	52848
57.00	21632	93.00	42960	134.00	205	176.00	710400
58.00	1033	94.00	115728	135.00	1547	177.00	47992
59.00	84	95.00	930624	136.00	275	178.00	1368
60.00	7406	96.00	68120	137.00	1738	193.00	164
61.00	39344	97.00	1790	138.00	77	208.00	192
62.00	42440	103.00	518	139.00	314		
63.00	31944	104.00	4004	140.00	539		

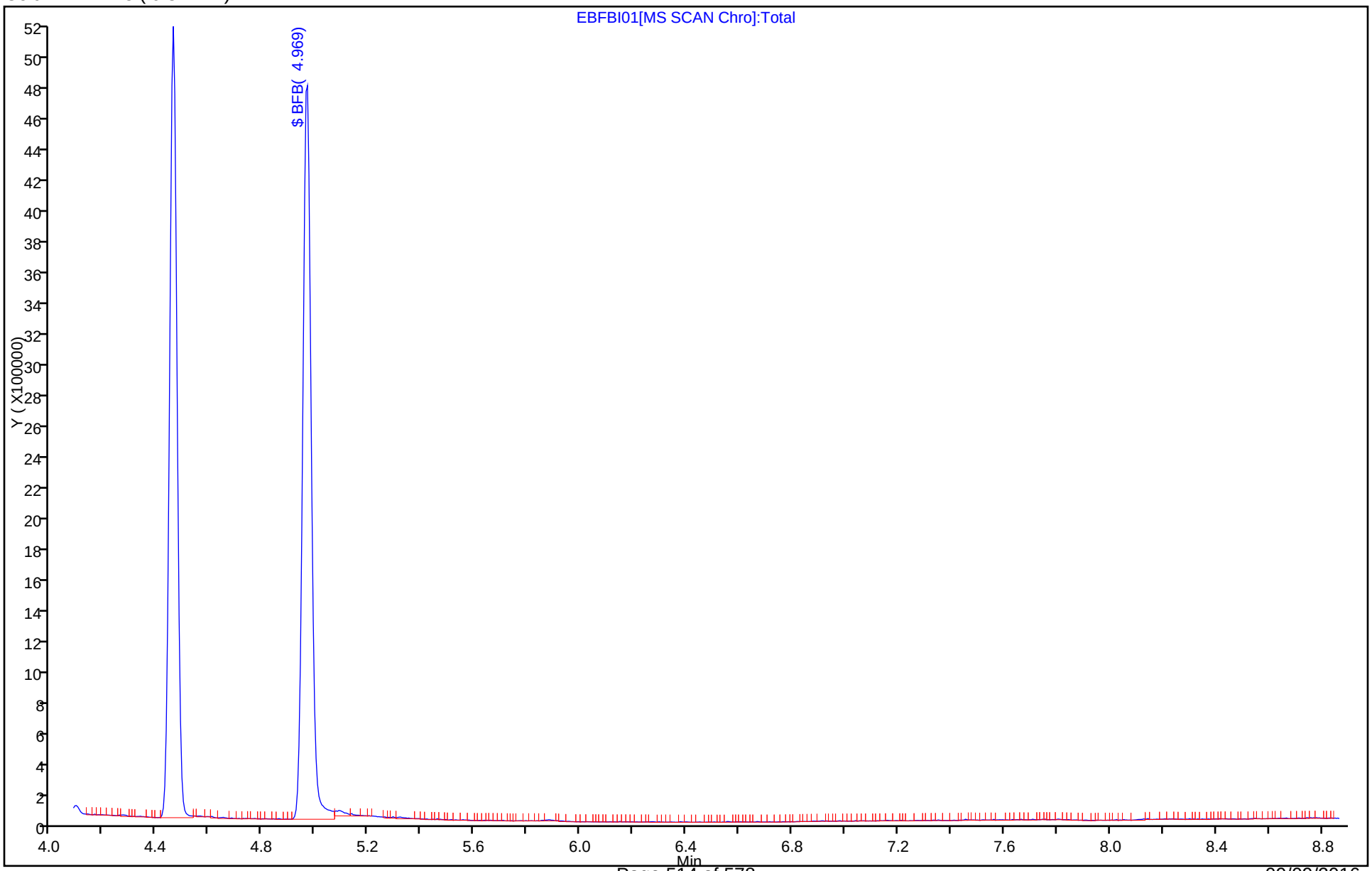
Report Date: 01-Sep-2016 15:53:14 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\EBFBI01.D

Injection Date:	01-Sep-2016 09:39:30	Instrument ID:	ME	Operator ID:	7126
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 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:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\EBFBI02A.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	02-Sep-2016 13:21:30	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	500.0 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003370-001				
Misc. Info.:	BFB				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 17:17:50	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: barlozhetskayaa		Date:	02-Sep-2016 17:17:50		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
$ 5 BFB	95	5.007	5.007	0.000	0	2285197	NR	NR	8

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test

Reagents:

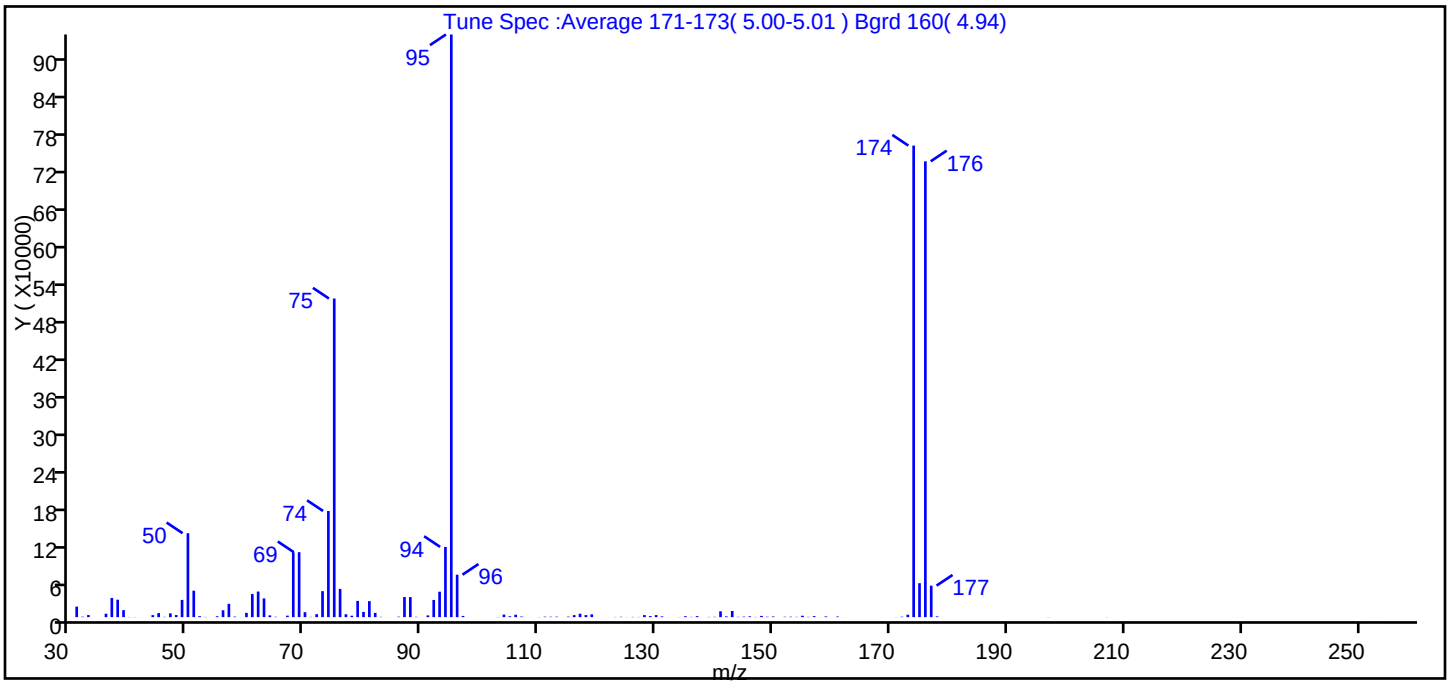
40MXSUR_00001 Amount Added: 40.00 Units: mL

MS Tune Report

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\EBFBI02A.D
Injection Date: 02-Sep-2016 13:21:30 Instrument ID: ME
Lims ID: BFB
Client ID:
Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 500.0 mL Dil. Factor: 1.0000
Method: ME_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	14.4*
75	30 to 60% of m/z 95	54.7
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	80.9
175	5 to 9% of m/z 174	5.8 (7.2)
176	Greater than 95% but less than 101% of m/z 174	78.2 (96.7)
177	5 to 9% of m/z 176	5.4 (6.9)

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\EBFBI02A.D\ME_TO15.rslt\spectra.d
Injection Date: 02-Sep-2016 13:21:30
Spectrum: Tune Spec :Average 171-173(5.00-5.01) Bgrd 160(4.94)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 127

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	16880	66.00	42	104.00	4102	142.00	1243
32.00	723	67.00	2369	105.00	1388	143.00	9897
33.00	3360	68.00	103936	106.00	3862	144.00	521
36.00	5489	69.00	104080	107.00	964	145.00	819
37.00	30760	70.00	7931	110.00	221	146.00	1288
38.00	27928	71.00	421	111.00	773	147.00	304
39.00	11241	72.00	4758	112.00	667	148.00	1992
40.00	269	73.00	41656	113.00	755	149.00	668
41.00	236	74.00	170048	115.00	827	150.00	1043
42.00	31	75.00	510400	116.00	3233	152.00	609
44.00	3240	76.00	45248	117.00	5578	153.00	714
45.00	6495	77.00	4615	118.00	3310	154.00	423
46.00	448	78.00	2249	119.00	4514	155.00	2256
47.00	6082	79.00	26064	120.00	48	156.00	437
48.00	3373	80.00	8438	122.00	78	157.00	1621
49.00	27608	81.00	25672	123.00	309	158.00	87
50.00	134464	82.00	6808	124.00	567	159.00	1189
51.00	42392	83.00	437	125.00	150	161.00	1035
52.00	1576	84.00	70	126.00	404	162.00	70
53.00	293	86.00	756	127.00	313	171.00	205
54.00	20	87.00	32296	128.00	3314	172.00	708
55.00	1403	88.00	32080	129.00	1678	173.00	3899
56.00	11048	89.00	544	130.00	3288	174.00	755392
57.00	21280	91.00	2824	131.00	1201	175.00	54400
58.00	886	92.00	27536	132.00	77	176.00	730176
59.00	89	93.00	40792	134.00	257	177.00	50480
60.00	6860	94.00	112528	135.00	1486	178.00	1255
61.00	37048	95.00	933376	136.00	398	197.00	229
62.00	41016	96.00	67976	137.00	1624	207.00	162
63.00	30008	97.00	1931	139.00	388	208.00	4
64.00	2838	98.00	73	140.00	522	253.00	91
65.00	615	103.00	312	141.00	9362		

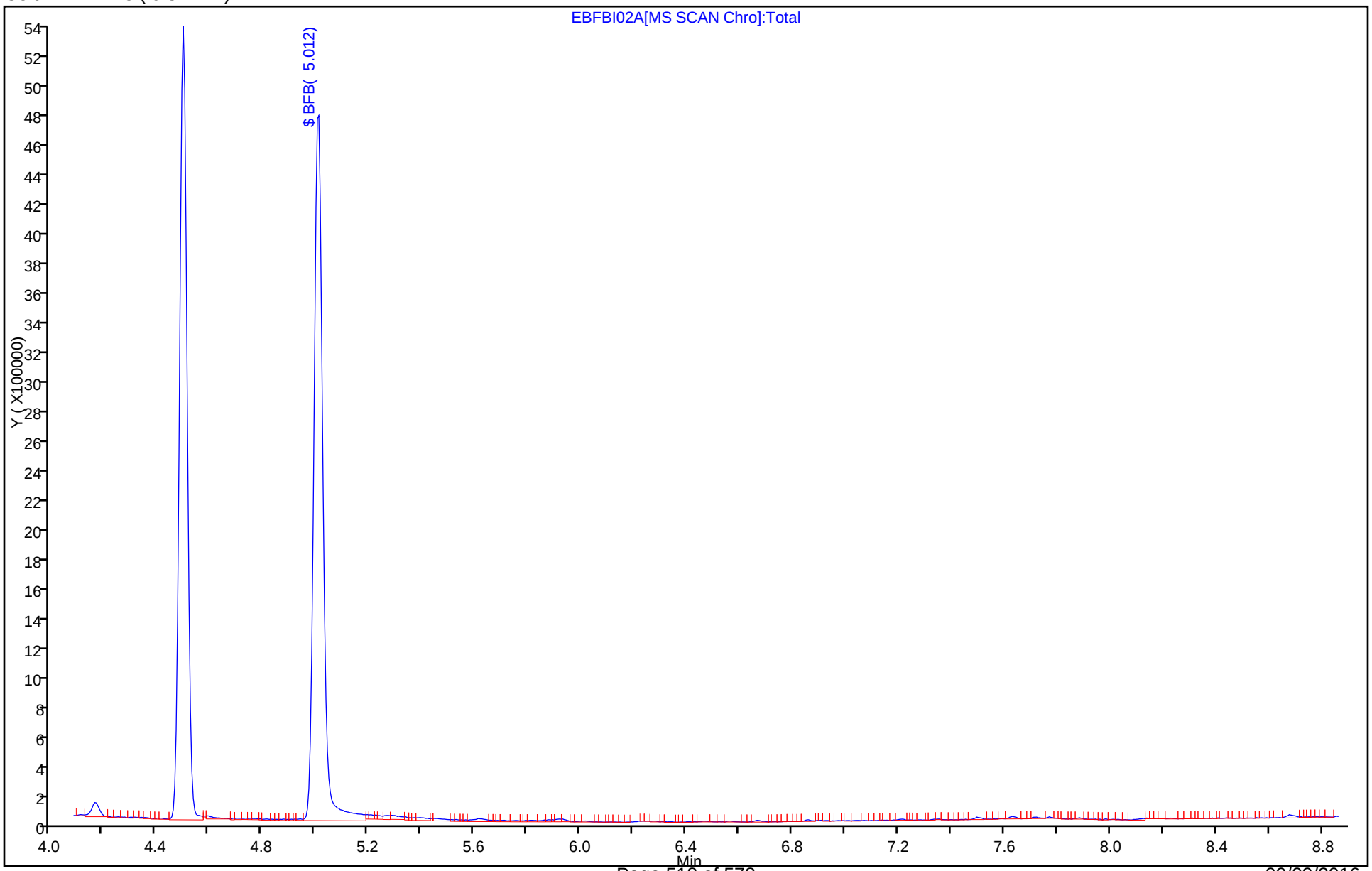
Report Date: 02-Sep-2016 17:17:52 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\EBFBI02A.D

Injection Date:	02-Sep-2016 13:21:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	500.0 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.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-6440/4

Matrix: Air Lab File ID: E500BI01.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 12:09

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.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	
78-93-3	2-Butanone	72.11	ND		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20	
71-43-2	Benzene	78.11	ND		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.040	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-6440/4

Matrix: Air Lab File ID: E500BI01.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 12:09

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.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.080	
64-17-5	Ethanol	46.07	ND		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	ND		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.080	
95-47-6	o-Xylene	106.17	ND		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	ND		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-6440/4

Matrix: Air Lab File ID: E500BI01.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 12:09

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.: 6440 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	ND		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	ND		0.25	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	ND		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 140-6440/4

Matrix: Air | Lab File ID: E500BI01.D

Analysis Method: TO 15 LL | Date Collected:

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 12:09

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.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40	
64-17-5	Ethanol	46.07	ND		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	ND		0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	ND		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-69-4	Trichlorofluoromethane	137.37	ND		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\E500BI01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Sep-2016 12:09:30 ALS Bottle#: 16 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003369-004
Misc. Info.: 500ML BLK
Operator ID: 007126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 15:56:46 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 15:57:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.562	7.568	-0.006	73	231791	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	95	1034416	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	992083	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	86	839538	4.00	4.14	
31 Methylene Chloride	84	5.103	5.103	0.000	78	4415		0.0607	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

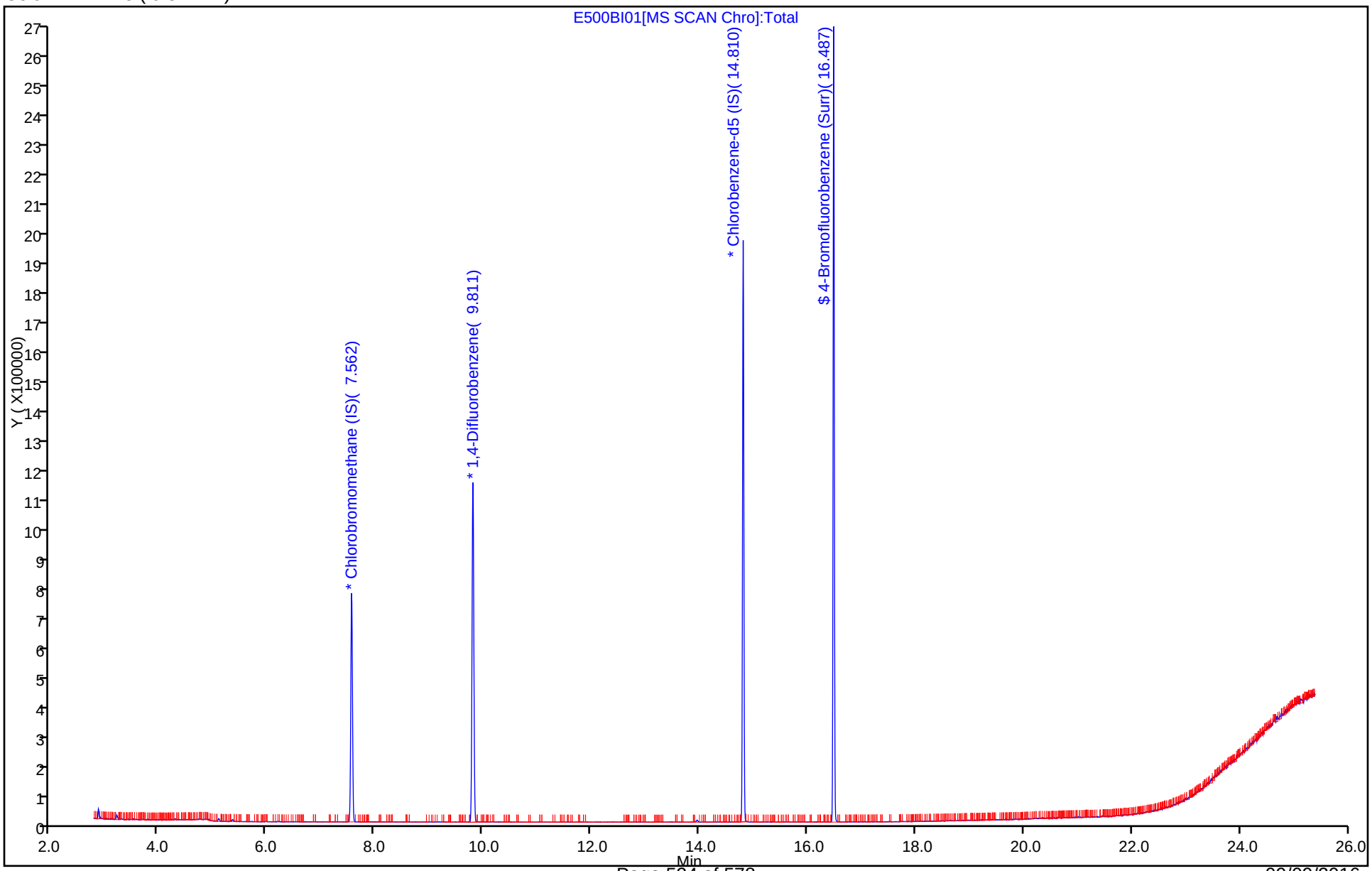
Report Date: 01-Sep-2016 15:57:13 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\E500BI01.D

Injection Date:	01-Sep-2016 12:09:30	Instrument ID:	ME	Operator ID:	007126
Lims ID:	MB			Worklist Smp#:	4
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
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\E500BI01.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	01-Sep-2016 12:09:30	ALS Bottle#:	16	Worklist Smp#:	4
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003369-004				
Misc. Info.:	500ML BLK				
Operator ID:	007126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 15:56:46	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 15:57:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.14	103.39

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-6493/7

Matrix: Air Lab File ID: LOT5745MB.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/02/2016 16:02

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.: 6493 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	
78-93-3	2-Butanone	72.11	ND		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20	
71-43-2	Benzene	78.11	ND		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.040	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-6493/7

Matrix: Air Lab File ID: LOT5745MB.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/02/2016 16:02

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.: 6493 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.080	
64-17-5	Ethanol	46.07	ND		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	ND		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.080	
95-47-6	o-Xylene	106.17	ND		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	ND		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

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.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-6493/7

Matrix: Air Lab File ID: LOT5745MB.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/02/2016 16:02

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.: 6493 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61	
75-34-3	1,1-Dichloroethane	98.96	ND		0.32	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39	
106-93-4	1,2-Dibromoethane	187.87	ND		0.61	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48	
107-06-2	1,2-Dichloroethane	98.96	ND		0.32	
78-87-5	1,2-Dichloropropane	112.99	ND		0.37	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48	
123-91-1	1,4-Dioxane	88.11	ND		0.72	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	
78-93-3	2-Butanone	72.11	ND		0.94	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82	
71-43-2	Benzene	78.11	ND		0.26	
100-44-7	Benzyl chloride	126.58	ND		0.83	
75-27-4	Bromodichloromethane	163.83	ND		0.54	
75-25-2	Bromoform	252.75	ND		0.83	
74-83-9	Bromomethane	94.94	ND		0.31	
56-23-5	Carbon tetrachloride	153.81	ND		0.25	
108-90-7	Chlorobenzene	112.56	ND		0.37	
75-00-3	Chloroethane	64.52	ND		0.21	
67-66-3	Chloroform	119.38	ND		0.39	
74-87-3	Chloromethane	50.49	ND		0.41	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36	
110-82-7	Cyclohexane	84.16	ND		0.69	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-6493/7

Matrix: Air Lab File ID: LOT5745MB.D

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/02/2016 16:02

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.: 6493 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.68	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40	
64-17-5	Ethanol	46.07	ND		3.8	
100-41-4	Ethylbenzene	106.17	ND		0.35	
87-68-3	Hexachlorobutadiene	260.76	ND		0.85	
110-54-3	Hexane	86.17	ND		0.70	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58	
75-09-2	Methylene Chloride	84.93	ND		0.69	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35	
95-47-6	o-Xylene	106.17	ND		0.35	
100-42-5	Styrene	104.15	ND		0.34	
75-65-0	t-Butyl alcohol	74.12	ND		0.97	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
108-88-3	Toluene	92.14	ND		0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-69-4	Trichlorofluoromethane	137.37	ND		0.45	
75-01-4	Vinyl chloride	62.50	ND		0.10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\LOT5745MB.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Sep-2016 16:02:30 ALS Bottle#: 15 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003370-020
Misc. Info.: 09524
Operator ID: 403648 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 18:27:42 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 18:27:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.573	0.000	73	318720	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.816	-0.005	94	1487455	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1337962	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	1061198	4.00	3.88	
31 Methylene Chloride	84	5.114	5.109	0.005	76	6719		0.0672	
33 Carbon disulfide	76	5.254	5.249	0.005	62	3601		0.0120	
44 Chloroform	83	7.589	7.589	0.000	88	4179		0.0157	
94 n-Decane	57	17.624	17.598	0.026	90	17666		0.1052	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

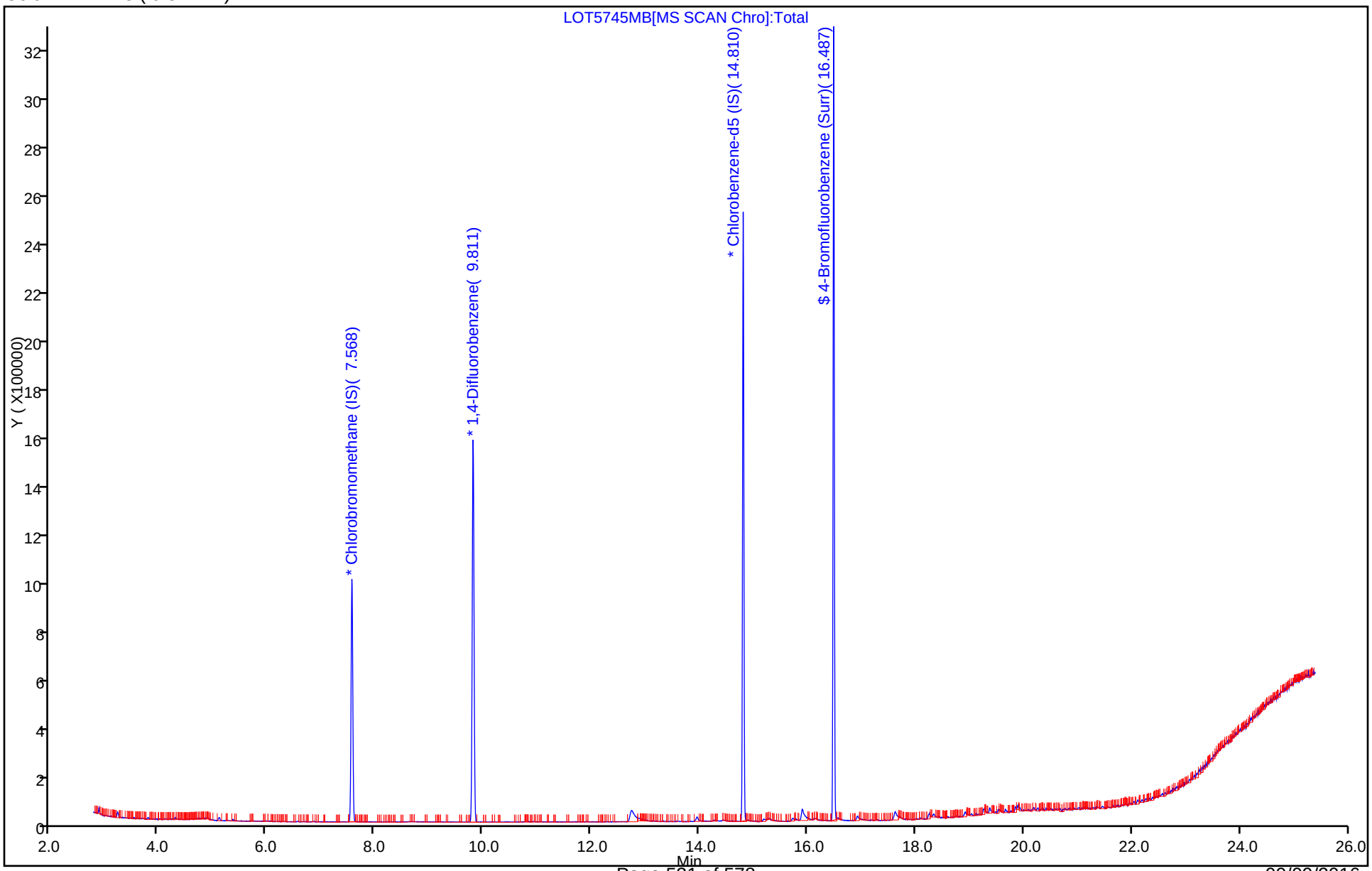
Report Date: 02-Sep-2016 18:27:43 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\LOT5745MB.D

Injection Date:	02-Sep-2016 16:02:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
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)



TestAmerica Knoxville
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\LOT5745MB.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	02-Sep-2016 16:02:30	ALS Bottle#:	15	Worklist Smp#:	7
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003370-020				
Misc. Info.:	09524				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 18:27:42	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 18:27:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	3.88	96.90

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-6440/1002

Matrix: Air Lab File ID: ECCVI01-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/01/2016 10:10

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.: 6440 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	2.09		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.10		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	2.03		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.15		0.080	
75-34-3	1,1-Dichloroethane	98.96	2.17		0.080	
75-35-4	1,1-Dichloroethene	96.94	2.06		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	1.57		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.06		0.080	
106-93-4	1,2-Dibromoethane	187.87	1.98		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	2.01		0.080	
107-06-2	1,2-Dichloroethane	98.96	2.08		0.080	
78-87-5	1,2-Dichloropropane	112.99	2.04		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.26		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	2.02		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	2.03		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	2.03		0.080	
123-91-1	1,4-Dioxane	88.11	1.79		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	2.04		0.20	
78-93-3	2-Butanone	72.11	1.81		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.73		0.20	
71-43-2	Benzene	78.11	1.97		0.080	
100-44-7	Benzyl chloride	126.58	2.05		0.16	
75-27-4	Bromodichloromethane	163.83	2.06		0.080	
75-25-2	Bromoform	252.75	2.10		0.080	
74-83-9	Bromomethane	94.94	2.32		0.080	
56-23-5	Carbon tetrachloride	153.81	2.03		0.040	
108-90-7	Chlorobenzene	112.56	1.99		0.080	
75-00-3	Chloroethane	64.52	2.23		0.080	
67-66-3	Chloroform	119.38	2.10		0.080	
74-87-3	Chloromethane	50.49	2.18		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	2.09		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	2.03		0.080	
110-82-7	Cyclohexane	84.16	2.09		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 140-6440/1002

Matrix: Air | Lab File ID: ECCVI01-LCS.d

Analysis Method: TO 15 LL | Date Collected:

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 10:10

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.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	2.06		0.080	
75-71-8	Dichlorodifluoromethane	120.91	2.36		0.080	
64-17-5	Ethanol	46.07	9.63		2.0	
100-41-4	Ethylbenzene	106.17	2.04		0.080	
87-68-3	Hexachlorobutadiene	260.76	1.86		0.080	
110-54-3	Hexane	86.17	2.17		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	1.99		0.16	
75-09-2	Methylene Chloride	84.93	2.08		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	4.12		0.080	
95-47-6	o-Xylene	106.17	2.05		0.080	
100-42-5	Styrene	104.15	2.17		0.080	
75-65-0	t-Butyl alcohol	74.12	2.08		0.32	
127-18-4	Tetrachloroethene	165.83	2.03		0.080	
108-88-3	Toluene	92.14	1.97		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	2.14		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	2.04		0.080	
79-01-6	Trichloroethene	131.39	1.94		0.040	
75-69-4	Trichlorofluoromethane	137.37	2.32		0.080	
75-01-4	Vinyl chloride	62.50	2.35		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ECCVI01-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Sep-2016 10:10:30 ALS Bottle#: 15 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003369-002
Misc. Info.: P22
Operator ID: 7126 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 01-Sep-2016 16:07:24 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 15:56:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.568	7.568	0.000	81	265245	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.811	9.811	0.000	94	1292036	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	90	1204822	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	86	1031385	4.00	4.18	
6 Chlorodifluoromethane	67	2.898	2.898	0.000	94	74575	2.00	2.37	
7 Propene	41	2.903	2.903	0.000	96	106800	2.00	2.47	
8 Dichlorodifluoromethane	85	2.946	2.946	0.000	99	659201	2.00	2.36	
9 Chloromethane	52	3.097	3.097	0.000	99	39000	2.00	2.18	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.103	3.103	0.000	96	335794	2.00	2.26	
11 Acetaldehyde	44	3.227	3.227	0.000	91	169624	10.0	9.94	
12 Vinyl chloride	62	3.238	3.238	0.000	98	168098	2.00	2.35	
13 Butane	43	3.313	3.313	0.000	82	178849	2.00	2.29	
14 Butadiene	54	3.313	3.313	0.000	75	103089	2.00	2.28	
15 Bromomethane	94	3.577	3.577	0.000	98	187393	2.00	2.32	
16 Chloroethane	64	3.696	3.696	0.000	98	85059	2.00	2.23	
17 Ethanol	31	3.777	3.777	0.000	99	181106	10.0	9.63	
18 Vinyl bromide	106	3.944	3.944	0.000	98	171912	2.00	2.22	
19 2-Methylbutane	43	3.982	3.982	0.000	86	121724	2.00	2.04	
20 Trichlorofluoromethane	101	4.165	4.165	0.000	99	625114	2.00	2.32	
21 Acrolein	56	4.176	4.176	0.000	98	37046	2.00	2.10	
22 Acetonitrile	40	4.235	4.235	0.000	98	31089	2.00	1.81	
23 Acetone	58	4.273	4.273	0.000	98	141976	6.00	5.61	
24 Isopropyl alcohol	45	4.348	4.348	0.000	95	393148	6.00	5.85	
25 Pentane	72	4.354	4.354	0.000	95	32941	2.00	2.32	
26 Ethyl ether	31	4.499	4.499	0.000	82	87406	2.00	1.99	
27 1,1-Dichloroethene	96	4.780	4.780	0.000	99	166829	2.00	2.06	
28 2-Methyl-2-propanol	59	4.877	4.877	0.000	93	227981	2.00	2.08	
29 Acrylonitrile	53	4.882	4.882	0.000	92	63171	2.00	1.85	
30 1,1,2-Trichloro-1,2,2-trif	101	4.942	4.942	0.000	95	374300	2.00	2.15	
31 Methylene Chloride	84	5.103	5.103	0.000	80	172944	2.00	2.08	
32 3-Chloro-1-propene	39	5.114	5.114	0.000	87	131746	2.00	1.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	5.249	5.249	0.000	98	557531	2.00	2.23	
34 trans-1,2-Dichloroethene	96	5.869	5.869	0.000	97	188495	2.00	2.14	
35 2-Methylpentane	43	5.885	5.885	0.000	85	232232	2.00	2.14	
36 Methyl tert-butyl ether	73	5.998	5.998	0.000	93	507091	2.00	1.99	
37 1,1-Dichloroethane	63	6.279	6.279	0.000	99	319855	2.00	2.17	
38 Vinyl acetate	43	6.392	6.392	0.000	98	271673	2.00	2.04	
39 2-Butanone (MEK)	72	6.834	6.834	0.000	98	70124	2.00	1.81	
40 Hexane	56	6.840	6.840	0.000	85	112173	2.00	2.17	
41 Isopropyl ether	45	7.012	7.012	0.000	89	320646	2.00	2.01	
42 cis-1,2-Dichloroethene	96	7.244	7.244	0.000	93	185501	2.00	2.09	
43 Ethyl acetate	43	7.449	7.449	0.000	98	199822	2.00	1.93	
44 Chloroform	83	7.584	7.584	0.000	96	464521	2.00	2.10	
45 Tert-butyl ethyl ether	59	7.681	7.681	0.000	91	402534	2.00	2.01	
46 Tetrahydrofuran	42	7.988	7.988	0.000	76	98935	2.00	1.90	
47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	94	518357	2.00	2.09	
48 1,2-Dichloroethane	62	8.711	8.711	0.000	98	305008	2.00	2.08	
54 Thiophene	84	9.196	9.196	0.000	64	333249	2.00	2.08	
50 Cyclohexane	69	9.196	9.196	0.000	96	91447	2.00	2.09	
51 Benzene	78	9.202	9.202	0.000	95	521049	2.00	1.97	
49 n-Butanol	31	9.202	9.202	0.000	62	28431	2.00	1.79	
52 Carbon tetrachloride	117	9.223	9.223	0.000	97	519428	2.00	2.03	
53 2,3-Dimethylpentane	71	9.342	9.342	0.000	84	127018	2.00	2.06	
55 Tert-amyl methyl ether	73	9.735	9.735	0.000	97	464007	2.00	1.90	
56 Isooctane	57	10.037	10.037	0.000	97	628240	2.00	2.04	
57 n-Heptane	71	10.474	10.474	0.000	77	192549	2.00	2.04	
58 1,2-Dichloropropane	63	10.544	10.544	0.000	85	161208	2.00	2.04	
59 Trichloroethene	130	10.582	10.582	0.000	92	224273	2.00	1.94	
60 Dibromomethane	93	10.668	10.668	0.000	93	231135	2.00	2.00	
61 Dichlorobromomethane	83	10.835	10.835	0.000	98	462841	2.00	2.06	
62 1,4-Dioxane	88	10.868	10.868	0.000	80	65805	2.00	1.79	
63 Methyl methacrylate	41	10.976	10.976	0.000	78	127033	2.00	1.80	
64 Methylcyclohexane	83	11.407	11.407	0.000	90	410968	2.00	2.04	
65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	91	179693	2.00	1.73	
66 cis-1,3-Dichloropropene	75	11.925	11.925	0.000	90	325495	2.00	2.03	
67 trans-1,3-Dichloropropene	75	12.674	12.674	0.000	93	311084	2.00	2.04	
68 Toluene	91	12.777	12.777	0.000	94	570712	2.00	1.97	
69 1,1,2-Trichloroethane	83	12.868	12.868	0.000	98	180192	2.00	2.03	
70 2-Methylthiophene	97	12.938	12.938	0.000	96	488884	2.00	2.04	
71 3-Methylthiophene	97	13.149	13.149	0.000	98	475490	2.00	2.02	
72 2-Hexanone	58	13.294	13.294	0.000	98	103253	2.00	1.84	
73 n-Octane	85	13.532	13.532	0.000	78	204574	2.00	2.06	
74 Chlorodibromomethane	129	13.586	13.586	0.000	96	384548	2.00	2.06	
75 Ethylene Dibromide	107	13.882	13.882	0.000	98	313625	2.00	1.98	
76 Tetrachloroethene	129	13.963	13.963	0.000	94	227777	2.00	2.03	
77 Chlorobenzene	112	14.858	14.858	0.000	91	444757	2.00	1.99	
78 2,3-Dimethylheptane	43	14.912	14.912	0.000	76	316827	2.00	2.06	
79 Ethylbenzene	91	15.166	15.166	0.000	98	791060	2.00	2.04	
80 2-Ethylthiophene	97	15.268	15.268	0.000	98	630791	2.00	2.08	
81 m-Xylene & p-Xylene	91	15.333	15.333	0.000	99	1246968	4.00	4.12	
83 Bromoform	173	15.769	15.769	0.000	94	382590	2.00	2.10	
82 n-Nonane	57	15.786	15.786	0.000	77	278493	2.00	2.15	
84 Styrene	104	15.802	15.802	0.000	95	422484	2.00	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 o-Xylene	91	15.861	15.861	0.000	98	649462	2.00	2.05	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.201	0.000	98	423132	2.00	2.10	
87 1,2,3-Trichloropropane	110	16.357	16.357	0.000	98	142331	2.00	1.97	
88 Isopropylbenzene	105	16.460	16.460	0.000	97	846105	2.00	2.00	
89 N-Propylbenzene	120	17.015	17.015	0.000	99	219986	2.00	2.02	
90 2-Chlorotoluene	126	17.053	17.053	0.000	96	199347	2.00	2.02	
91 4-Ethyltoluene	105	17.177	17.177	0.000	98	804670	2.00	2.04	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	91	371967	2.00	2.02	
93 Alpha Methyl Styrene	118	17.506	17.506	0.000	87	304666	2.00	2.08	
94 n-Decane	57	17.597	17.597	0.000	94	333343	2.00	2.20	
95 tert-Butylbenzene	119	17.716	17.716	0.000	88	728549	2.00	2.01	
96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	96	701488	2.00	2.06	
97 sec-Butylbenzene	105	18.007	18.007	0.000	97	977280	2.00	2.07	
98 1,3-Dichlorobenzene	146	18.013	18.013	0.000	98	419881	2.00	2.03	
99 Benzyl chloride	91	18.099	18.099	0.000	97	563074	2.00	2.05	
100 1,4-Dichlorobenzene	146	18.110	18.110	0.000	91	408088	2.00	2.03	
101 4-Isopropyltoluene	119	18.185	18.185	0.000	96	798966	2.00	2.05	
102 1,2,3-Trimethylbenzene	105	18.234	18.234	0.000	99	528488	2.00	2.05	
103 Butylcyclohexane	83	18.299	18.299	0.000	95	548432	2.00	2.13	
104 1,2-Dichlorobenzene	146	18.487	18.487	0.000	88	404960	2.00	2.01	
105 2,3-Dihydroindene	117	18.493	18.493	0.000	93	591256	2.00	2.06	
106 Indene	116	18.627	18.627	0.000	92	423318	2.00	1.96	
107 n-Butylbenzene	91	18.649	18.649	0.000	98	763491	2.00	2.14	
108 Undecane	57	19.000	19.000	0.000	86	316646	2.00	2.11	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	541027	2.00	1.97	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.129	0.000	94	153422	2.00	1.89	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	95	621786	2.00	2.00	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.496	0.000	94	376261	2.00	1.97	
113 1,2,3,4-Tetramethylbenzene	119	19.889	19.889	0.000	96	471505	2.00	1.96	
114 Dodecane	57	20.073	20.073	0.000	92	145055	2.00	1.61	
115 1,2,4-Trichlorobenzene	180	20.229	20.229	0.000	93	211928	2.00	1.57	
116 Naphthalene	128	20.353	20.353	0.000	98	374297	2.00	1.50	
117 Benzo(b)thiophene	134	20.450	20.450	0.000	99	158164	2.00	1.18	
118 Hexachlorobutadiene	225	20.569	20.569	0.000	95	359167	2.00	1.86	
119 1,2,3-Trichlorobenzene	180	20.628	20.628	0.000	92	149622	2.00	1.34	
120 2-Methylnaphthalene	142	21.458	21.458	0.000	99	165419	6.25	3.22	
121 1-Methylnaphthalene	142	21.658	21.658	0.000	98	151604	6.25	3.50	
A 124 Toluene Range	1	12.777	(12.747-12.807)		0	1386752	2.00	1.98	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	1462681	2.00	2.09	
S 126 Xylenes, Total	100				0		6.00	6.17	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.23	

Reagents:

40CV101P_00022	Amount Added: 100.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

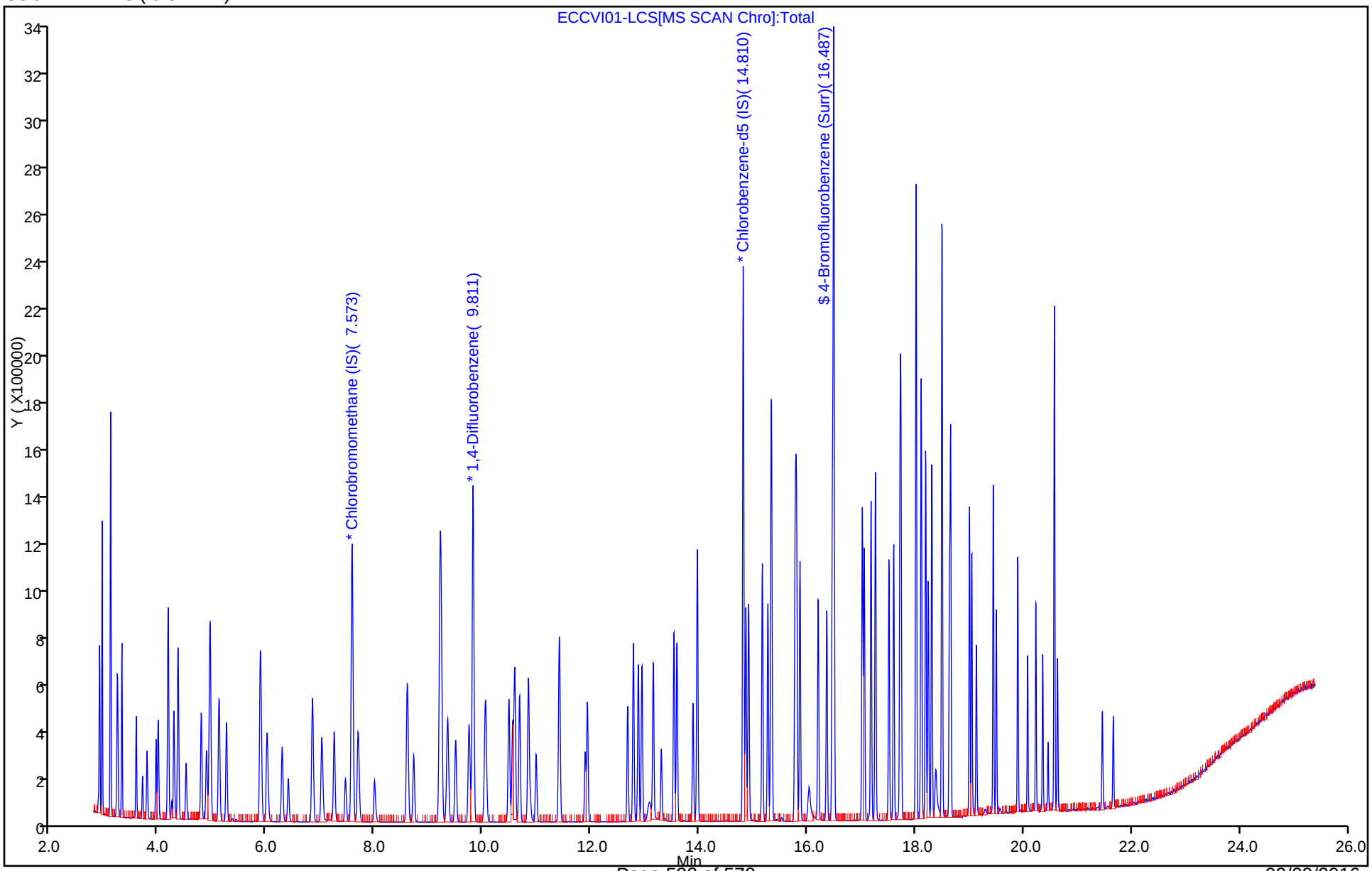
Report Date: 01-Sep-2016 16:07:28 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Laboratories

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ECCVI01-LCS.d

Injection Date:	01-Sep-2016 10:10:30	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#:	15
Method:	ME_TO15	Limit Group:	MSA TO14A_15 Routine ICAL		

Column: RTX-5 (0.32 mm)



TestAmerica Laboratories
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ECCVI01-LCS.d				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	01-Sep-2016 10:10:30	ALS Bottle#:	15	Worklist Smp#:	1002
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003369-002				
Misc. Info.:	P22				
Operator ID:	7126	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3369.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Sep-2016 16:07:24	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: barlozhetskayaa Date: 01-Sep-2016 15:56:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.18	104.59

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 140-6493/1002

Matrix: Air Lab File ID: ECCVI02A-LCS.d

Analysis Method: TO 15 LL Date Collected:

Sample wt/vol: 500(mL) Date Analyzed: 09/02/2016 13:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 6493 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	2.05		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.36		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	2.22		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.23		0.080	
75-34-3	1,1-Dichloroethane	98.96	2.16		0.080	
75-35-4	1,1-Dichloroethene	96.94	2.15		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	2.32		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.35		0.080	
106-93-4	1,2-Dibromoethane	187.87	2.24		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	2.32		0.080	
107-06-2	1,2-Dichloroethane	98.96	2.18		0.080	
78-87-5	1,2-Dichloropropane	112.99	2.21		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.27		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	2.36		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	2.34		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	2.36		0.080	
123-91-1	1,4-Dioxane	88.11	1.88		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	2.23		0.20	
78-93-3	2-Butanone	72.11	1.88		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.86		0.20	
71-43-2	Benzene	78.11	2.20		0.080	
100-44-7	Benzyl chloride	126.58	2.41		0.16	
75-27-4	Bromodichloromethane	163.83	2.21		0.080	
75-25-2	Bromoform	252.75	2.17		0.080	
74-83-9	Bromomethane	94.94	2.27		0.080	
56-23-5	Carbon tetrachloride	153.81	2.21		0.040	
108-90-7	Chlorobenzene	112.56	2.30		0.080	
75-00-3	Chloroethane	64.52	2.28		0.080	
67-66-3	Chloroform	119.38	2.07		0.080	
74-87-3	Chloromethane	50.49	2.06		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	2.19		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	2.28		0.080	
110-82-7	Cyclohexane	84.16	2.28		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 140-6493/1002

Matrix: Air | Lab File ID: ECCVI02A-LCS.d

Analysis Method: TO 15 LL | Date Collected:

Sample wt/vol: 500(mL) | Date Analyzed: 09/02/2016 13:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6493 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	2.23		0.080	
75-71-8	Dichlorodifluoromethane	120.91	2.20		0.080	
64-17-5	Ethanol	46.07	9.99		2.0	
100-41-4	Ethylbenzene	106.17	2.29		0.080	
87-68-3	Hexachlorobutadiene	260.76	2.30		0.080	
110-54-3	Hexane	86.17	2.11		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	2.06		0.16	
75-09-2	Methylene Chloride	84.93	2.10		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	4.63		0.080	
95-47-6	o-Xylene	106.17	2.27		0.080	
100-42-5	Styrene	104.15	2.51		0.080	
75-65-0	t-Butyl alcohol	74.12	2.09		0.32	
127-18-4	Tetrachloroethene	165.83	2.25		0.080	
108-88-3	Toluene	92.14	2.28		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	2.19		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	2.27		0.080	
79-01-6	Trichloroethene	131.39	2.18		0.040	
75-69-4	Trichlorofluoromethane	137.37	2.23		0.080	
75-01-4	Vinyl chloride	62.50	2.41		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ECCVI02A-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Sep-2016 13:50:30 ALS Bottle#: 2 Worklist Smp#: 1002
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003370-002
Misc. Info.: S14
Operator ID: 403648 Instrument ID: ME

Method: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 02-Sep-2016 18:25:46 Calib Date: 23-Aug-2016 23:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: barlozhetskayaa Date: 02-Sep-2016 18:12:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.573	7.573	0.000	81	310163	4.00	4.00	
* 2 1,4-Difluorobenzene	114	9.816	9.816	0.000	94	1394294	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	14.810	14.810	0.000	89	1286927	4.00	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	16.487	16.487	0.000	88	1069362	4.00	4.06	
6 Chlorodifluoromethane	67	2.898	2.898	0.000	94	81278	2.00	2.21	
7 Propene	41	2.909	2.909	0.000	95	113365	2.00	2.24	
8 Dichlorodifluoromethane	85	2.952	2.952	0.000	99	716404	2.00	2.20	
9 Chloromethane	52	3.098	3.098	0.000	98	43044	2.00	2.06	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.108	3.108	0.000	98	393429	2.00	2.27	
11 Acetaldehyde	44	3.232	3.232	0.000	92	186537	10.0	9.35	
12 Vinyl chloride	62	3.243	3.243	0.000	98	201728	2.00	2.41	
14 Butadiene	54	3.313	3.313	0.000	75	120805	2.00	2.28	
13 Butane	43	3.313	3.313	0.000	83	214964	2.00	2.36	
15 Bromomethane	94	3.577	3.577	0.000	98	214798	2.00	2.27	
16 Chloroethane	64	3.696	3.696	0.000	98	101592	2.00	2.28	
17 Ethanol	31	3.782	3.782	0.000	99	219745	10.0	10.0	
18 Vinyl bromide	106	3.950	3.950	0.000	98	214301	2.00	2.37	
19 2-Methylbutane	43	3.987	3.987	0.000	86	150565	2.00	2.16	
20 Trichlorofluoromethane	101	4.171	4.171	0.000	99	704968	2.00	2.23	
21 Acrolein	56	4.181	4.181	0.000	97	47799	2.00	2.32	
22 Acetonitrile	40	4.241	4.241	0.000	99	40660	2.00	2.03	
23 Acetone	58	4.278	4.278	0.000	98	167562	6.00	5.66	
24 Isopropyl alcohol	45	4.354	4.354	0.000	92	449256	6.00	5.72	
25 Pentane	72	4.359	4.359	0.000	96	41671	2.00	2.51	
26 Ethyl ether	31	4.505	4.505	0.000	81	111454	2.00	2.17	
27 1,1-Dichloroethene	96	4.785	4.785	0.000	99	203084	2.00	2.15	
28 2-Methyl-2-propanol	59	4.882	4.882	0.000	92	269055	2.00	2.09	
29 Acrylonitrile	53	4.888	4.888	0.000	92	77591	2.00	1.94	
30 1,1,2-Trichloro-1,2,2-trif	101	4.947	4.947	0.000	96	453707	2.00	2.23	
31 Methylene Chloride	84	5.109	5.109	0.000	79	204710	2.00	2.10	
32 3-Chloro-1-propene	39	5.125	5.125	0.000	89	139192	2.00	1.77	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	5.249	5.249	0.000	98	648877	2.00	2.22	
34 trans-1,2-Dichloroethene	96	5.875	5.875	0.000	97	224755	2.00	2.19	
35 2-Methylpentane	43	5.891	5.891	0.000	86	300769	2.00	2.37	
36 Methyl tert-butyl ether	73	6.004	6.004	0.000	93	611675	2.00	2.06	
37 1,1-Dichloroethane	63	6.284	6.284	0.000	99	371797	2.00	2.16	
38 Vinyl acetate	43	6.398	6.398	0.000	99	329943	2.00	2.12	
39 2-Butanone (MEK)	72	6.834	6.834	0.000	98	84790	2.00	1.88	
40 Hexane	56	6.845	6.845	0.000	84	127597	2.00	2.11	
41 Isopropyl ether	45	7.018	7.018	0.000	89	381018	2.00	2.04	
42 cis-1,2-Dichloroethene	96	7.244	7.244	0.000	92	227599	2.00	2.19	
43 Ethyl acetate	43	7.455	7.455	0.000	97	238512	2.00	1.97	
44 Chloroform	83	7.589	7.589	0.000	97	535243	2.00	2.07	
45 Tert-butyl ethyl ether	59	7.686	7.686	0.000	91	478941	2.00	2.05	
46 Tetrahydrofuran	42	7.988	7.988	0.000	74	119593	2.00	1.97	
47 1,1,1-Trichloroethane	97	8.598	8.598	0.000	94	592727	2.00	2.05	
48 1,2-Dichloroethane	62	8.716	8.716	0.000	99	345272	2.00	2.18	
50 Cyclohexane	69	9.202	9.202	0.000	91	107789	2.00	2.28	
54 Thiophene	84	9.202	9.202	0.000	65	392371	2.00	2.27	
51 Benzene	78	9.202	9.202	0.000	94	627350	2.00	2.20	
49 n-Butanol	31	9.207	9.207	0.000	55	32717	2.00	1.91	
52 Carbon tetrachloride	117	9.229	9.229	0.000	97	610240	2.00	2.21	
53 2,3-Dimethylpentane	71	9.342	9.342	0.000	85	136526	2.00	2.05	
55 Tert-amyl methyl ether	73	9.741	9.741	0.000	96	574095	2.00	2.21	
56 Isooctane	57	10.043	10.043	0.000	97	740077	2.00	2.23	
57 n-Heptane	71	10.474	10.474	0.000	77	222752	2.00	2.19	
58 1,2-Dichloropropane	63	10.544	10.544	0.000	85	189040	2.00	2.21	
59 Trichloroethene	130	10.588	10.588	0.000	94	272252	2.00	2.18	
60 Dibromomethane	93	10.674	10.674	0.000	95	275264	2.00	2.21	
61 Dichlorobromomethane	83	10.836	10.836	0.000	97	535516	2.00	2.21	
62 1,4-Dioxane	88	10.873	10.873	0.000	80	74586	2.00	1.88	
63 Methyl methacrylate	41	10.981	10.981	0.000	78	155721	2.00	2.04	
64 Methylcyclohexane	83	11.413	11.413	0.000	90	387034	2.00	1.78	
65 4-Methyl-2-pentanone (MIBK	43	11.887	11.887	0.000	92	208216	2.00	1.86	
66 cis-1,3-Dichloropropene	75	11.930	11.930	0.000	90	393755	2.00	2.28	
67 trans-1,3-Dichloropropene	75	12.674	12.674	0.000	92	369692	2.00	2.27	
68 Toluene	91	12.782	12.782	0.000	94	703410	2.00	2.28	
69 1,1,2-Trichloroethane	83	12.869	12.869	0.000	98	210474	2.00	2.22	
70 2-Methylthiophene	97	12.939	12.939	0.000	96	610419	2.00	2.38	
71 3-Methylthiophene	97	13.149	13.149	0.000	97	622759	2.00	2.48	
72 2-Hexanone	58	13.295	13.295	0.000	98	116741	2.00	1.94	
73 n-Octane	85	13.532	13.532	0.000	78	248361	2.00	2.35	
74 Chlorodibromomethane	129	13.586	13.586	0.000	97	444746	2.00	2.23	
75 Ethylene Dibromide	107	13.882	13.882	0.000	98	379785	2.00	2.24	
76 Tetrachloroethene	129	13.963	13.963	0.000	95	270260	2.00	2.25	
77 Chlorobenzene	112	14.858	14.858	0.000	91	548966	2.00	2.30	
78 2,3-Dimethylheptane	43	14.912	14.912	0.000	76	380035	2.00	2.31	
79 Ethylbenzene	91	15.166	15.166	0.000	98	949750	2.00	2.29	
80 2-Ethylthiophene	97	15.268	15.268	0.000	98	748795	2.00	2.31	
81 m-Xylene & p-Xylene	91	15.333	15.333	0.000	99	1493873	4.00	4.63	
83 Bromoform	173	15.770	15.770	0.000	95	421158	2.00	2.17	
82 n-Nonane	57	15.786	15.786	0.000	77	336143	2.00	2.43	
84 Styrene	104	15.802	15.802	0.000	96	522846	2.00	2.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 o-Xylene	91	15.861	15.861	0.000	98	768350	2.00	2.27	
86 1,1,2,2-Tetrachloroethane	83	16.201	16.201	0.000	99	508408	2.00	2.36	
87 1,2,3-Trichloropropane	110	16.357	16.357	0.000	98	172744	2.00	2.24	
88 Isopropylbenzene	105	16.460	16.460	0.000	97	1049155	2.00	2.32	
89 N-Propylbenzene	120	17.015	17.015	0.000	99	280936	2.00	2.42	
90 2-Chlorotoluene	126	17.053	17.053	0.000	96	250837	2.00	2.38	
91 4-Ethyltoluene	105	17.177	17.177	0.000	98	961072	2.00	2.28	
92 1,3,5-Trimethylbenzene	120	17.258	17.258	0.000	92	463932	2.00	2.36	
93 Alpha Methyl Styrene	118	17.506	17.506	0.000	86	372870	2.00	2.38	
94 n-Decane	57	17.598	17.598	0.000	93	422014	2.00	2.61	
95 tert-Butylbenzene	119	17.716	17.716	0.000	89	903659	2.00	2.33	
96 1,2,4-Trimethylbenzene	105	17.732	17.732	0.000	96	854606	2.00	2.35	
97 sec-Butylbenzene	105	18.007	18.007	0.000	98	1203447	2.00	2.39	
98 1,3-Dichlorobenzene	146	18.013	18.013	0.000	98	517263	2.00	2.34	
99 Benzyl chloride	91	18.099	18.099	0.000	97	708912	2.00	2.41	
100 1,4-Dichlorobenzene	146	18.110	18.110	0.000	92	505877	2.00	2.36	
101 4-Isopropyltoluene	119	18.191	18.191	0.000	96	984042	2.00	2.37	
102 1,2,3-Trimethylbenzene	105	18.234	18.234	0.000	98	688911	2.00	2.51	
103 Butylcyclohexane	83	18.299	18.299	0.000	95	633104	2.00	2.30	
104 1,2-Dichlorobenzene	146	18.487	18.487	0.000	89	499456	2.00	2.32	
105 2,3-Dihydroindene	117	18.493	18.493	0.000	94	674783	2.00	2.20	
106 Indene	116	18.628	18.628	0.000	92	649294	2.00	2.82	
107 n-Butylbenzene	91	18.649	18.649	0.000	98	951533	2.00	2.49	
108 Undecane	57	19.000	19.000	0.000	86	415676	2.00	2.59	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.043	19.043	0.000	97	847555	2.00	2.89	
110 1,2-Dibromo-3-Chloropropan	157	19.129	19.129	0.000	94	131577	2.00	1.52	
111 1,2,4,5-Tetramethylbenzene	119	19.442	19.442	0.000	96	851451	2.00	2.56	
112 1,2,3,5-Tetramethylbenzene	119	19.496	19.496	0.000	94	539871	2.00	2.65	
113 1,2,3,4-Tetramethylbenzene	119	19.889	19.889	0.000	96	664791	2.00	2.59	
114 Dodecane	57	20.073	20.073	0.000	93	215724	2.00	2.24	
115 1,2,4-Trichlorobenzene	180	20.229	20.229	0.000	93	334689	2.00	2.32	
116 Naphthalene	128	20.353	20.353	0.000	98	592304	2.00	2.22	
117 Benzo(b)thiophene	134	20.450	20.450	0.000	99	282250	2.00	1.97	
118 Hexachlorobutadiene	225	20.569	20.569	0.000	95	474915	2.00	2.30	
119 1,2,3-Trichlorobenzene	180	20.628	20.628	0.000	93	267438	2.00	2.25	
120 2-Methylnaphthalene	142	21.459	21.459	0.000	99	115202	6.25	2.10	
121 1-Methylnaphthalene	142	21.658	21.658	0.000	99	95935	6.25	2.07	
A 124 Toluene Range	1	12.782	(12.752-12.812)		0	1790413	2.00	2.37	
A 125 C8 Range	1	13.525	(13.502-13.562)		0	1719368	2.00	2.28	
S 126 Xylenes, Total	100				0		6.00	6.89	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.38	

Reagents:

40CV101S_00014	Amount Added: 100.00	Units: mL	
40MXISSURP_00001	Amount Added: 40.00	Units: mL	Run Reagent

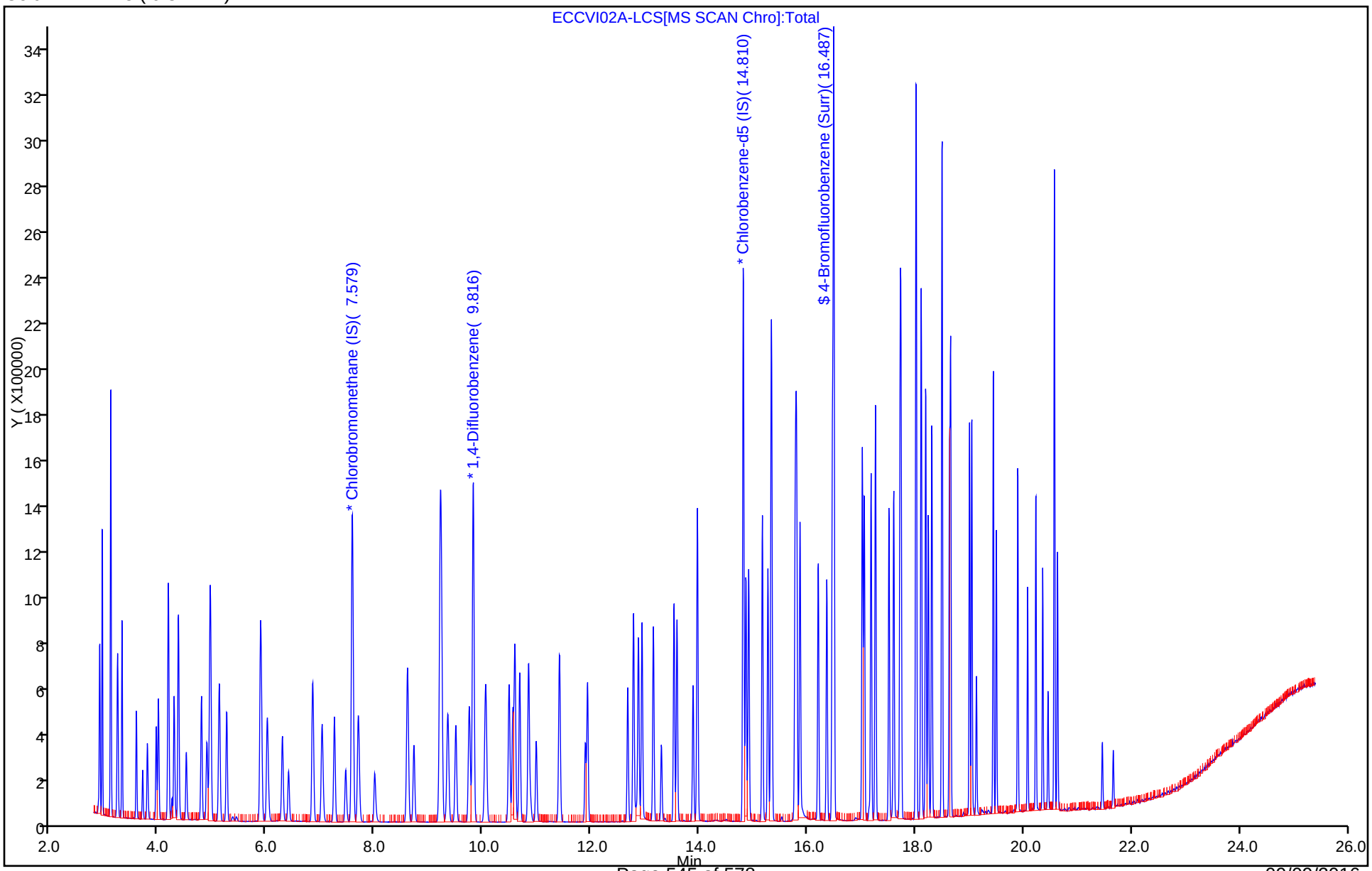
Report Date: 02-Sep-2016 18:25:50 Chrom Revision: 2.2 16-Aug-2016 13:13:02

TestAmerica Laboratories

Data File: \\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ECCVI02A-LCS.d

Injection Date:	02-Sep-2016 13:50:30	Instrument ID:	ME	Operator ID:	403648
Lims ID:	LCS			Worklist Smp#:	1002
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 Laboratories
Recovery Report

Data File:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ECCVI02A-LCS.d				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	02-Sep-2016 13:50:30	ALS Bottle#:	2	Worklist Smp#:	1002
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003370-002				
Misc. Info.:	S14				
Operator ID:	403648	Instrument ID:	ME		
Method:	\\ChromNA\Knoxville\ChromData\ME\20160830-3370.b\ME_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	02-Sep-2016 18:25:46	Calib Date:	23-Aug-2016 23:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\ME\20160822-3339.b\EH23IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: barlozhetskayaa		Date:	02-Sep-2016 18:12:40		

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 4-Bromofluorobenzene (Surr)	4.00	4.06	101.52

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Instrument ID: ME Start Date: 08/23/2016 15:48

Analysis Batch Number: 6379 End Date: 08/24/2016 00:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-6379/1		08/23/2016 15:48	1	EBFBH23A.D	RTX-5 0.32(mm)
IC 140-6379/3		08/23/2016 17:03	1	EH23IC01A.D	RTX-5 0.32(mm)
IC 140-6379/4		08/23/2016 17:48	1	EH23IC02A.D	RTX-5 0.32(mm)
IC 140-6379/5		08/23/2016 18:32	1	EH23IC03A.D	RTX-5 0.32(mm)
IC 140-6379/6		08/23/2016 19:17	1	EH23IC04.D	RTX-5 0.32(mm)
IC 140-6379/7		08/23/2016 20:01	1	EH23IC05.D	RTX-5 0.32(mm)
ICIS 140-6379/8		08/23/2016 20:46	1	EH23IC06.D	RTX-5 0.32(mm)
IC 140-6379/9		08/23/2016 21:31	1	EH23IC07.D	RTX-5 0.32(mm)
IC 140-6379/10		08/23/2016 22:17	1	EH23IC08.D	RTX-5 0.32(mm)
IC 140-6379/11		08/23/2016 23:02	1	EH23IC09.D	RTX-5 0.32(mm)
ICV 140-6379/13		08/24/2016 00:30	1	EH23ICV.D	RTX-5 0.32(mm)

160823

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 100 mL	31	8/23/2016	3:48:53 PM
BLANK	16 - 501 mL	30.4	8/23/2016	4:20:22 PM
ICAL01	7 - 101 mL	39.2	8/23/2016	5:03:52 PM
ICAL02	7 - 202 mL	38.3	8/23/2016	5:48:17 PM
ICAL03	8 - 201 mL	38.4	8/23/2016	6:32:48 PM
ICAL04	9 - 200 mL	39.8	8/23/2016	7:17:16 PM
ICAL05	10 - 200 mL	39.7	8/23/2016	8:01:47 PM
ICAL06	11 - 201 mL	38.9	8/23/2016	8:46:11 PM
ICAL07	12 - 200 mL	37.8	8/23/2016	9:31:47 PM
ICAL08	13 - 201 mL	36.4	8/23/2016	10:17:13 PM
ICAL09	14 - 201 mL	39.7	8/23/2016	11:02:13 PM
DNUprime	15 - 21 mL	40.5	8/23/2016	11:46:17 PM
ICV	15 - 100 mL	39.2	8/24/2016	12:30:13 AM
DNUflush	16 - 200 mL	30.2	8/24/2016	1:16:07 AM
BLANK	16 - 501 mL	29.4	8/24/2016	1:49:56 AM
MDLV	7 - 51 mL	38	8/24/2016	2:34:52 AM
LCS/ICV	1 - 100 mL	26.6	8/24/2016	3:19:07 AM
LCS	2 - 101 mL	37.3	8/24/2016	4:04:10 AM
EXP	3 - 51 mL	22.5	8/24/2016	4:50:02 AM
EXP	4 - 51 mL	21.3	8/24/2016	5:35:25 AM
EXP	5 - 50 mL	29.9	8/24/2016	6:20:30 AM
LCSD	6 - 102 mL	23.3	8/24/2016	7:06:45 AM

ME ICAL WL 3339

TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

Analysis Date:	8/23/16	Instrument:	ME	Chrom WL #:	3339	TALS Batch & Event #	TO14/15: 6379 750	AFCEE: 6378/ 749
							DOD: 6376/ 747	OHIO: 6377/ 748

Chrom/Worklist Review	1st	Comments	2nd
1. Re-read each Limit Group [method editor-limit groups]	✓		
2. Verify LODV in Chrom [method editor -> edit -> MDL]	✓		
3. Are the reagents and init/final volumes correct and first level "unlock/clear"? (Verify reagents & amt. injected at each level) [WL Sample Reagents Tab vs. Entech]	✓		✓
4. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]	✓		✓
5. Did BFB meet tune criteria? [F8]	✓		✓
6. Were all standards injected within 24 hr of BFB? [F7]	✓		✓
7. High point checked for saturation and point removed if so? [Chrom]	✓		✓
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]	✓		✓
9. RT for each IS ±20 sec avg. RT? [F6 IstdRec]	✓		✓
10. Area for each IS ± 40% avg. area? [F6 IstdRec]	✓		✓
11. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]	✓		✓
12. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		✓
• 2-methyl butane / acrolein	✓		✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		✓
• vinyl acetate / hexane	✓		✓
• cis- and trans- isomers	✓		✓
• ethyl benzene / m/p-xylene / o-xylene	✓		✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene	✓		✓
• tert-butylbenzene/4-isopropyltoluene	✓		✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		✓
• 1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	✓		✓
• 1,2,4- and 1,2,3-trichlorobenzenes	✓		✓
• 2-, and 1-methylnaphthalene	✓		✓
13. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	✓	DNU TPH as Hexane	✓

MLG Review	TO-	AFC	DOD	OH	Comments	TO-	AFC	DOD	OH
14. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%) 1& 2 methylnaphthalene ≤ 50% [F6 ∑]	✓	✓	✓	✓		✓	✓	✓	✓
15. Were at least 5 levels of each compound analyzed? [F6]	✓	✓	✓	✓		✓	✓	✓	✓
16. Is low level std at or <RL and are the remaining points consec.? [F6]	✓	✓	✓	✓		✓	✓	✓	
17. At least 6 consec. points used for quad curves; at least 5 consec. points for linear curves? Note: Ohio does not allow quad [F6]	NA	→	→	→		NA	→	→	→
18. If curves were used, is correlation coefficient ≥0.990? [F6]	NA	→	→	→		NA	→	→	→
19. Is the intercept less than the RL for each curve? [F6]	NA	→	→	→		NA	→	→	→
20. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Cntrl-C, details]	NA	→	→			NA	→	→	
21. Is the second source analysis within limits? [F8 - icv]	✓	✓	✓	✓		✓	✓	✓	✓
22. Analyst/Date: AEB 8/24/16	2nd Level Reviewer/Date:							8/25/16	
Comments:									

TALS Review	TO-	AFC	DOD	OH	Comments	TO-	AFC	DOD	OH
23. Upload ICAL	✓			✓					
24. Graphics uploaded? [Sample List Tab]	✓	✓	✓	✓		✓	✓	✓	✓
25. All points are in the most recent active calibration event? [Calibration Events –'Fix ICAL linkage' if needed]	✓	✓	✓	✓		✓	✓	✓	✓
26. Runs linked to BFB? [QC Links]	✓	✓	✓	✓		✓	✓	✓	✓
27. If criteria not met, was a NCM generated?	NA	—	—	→		NA	—	—	→
28. After review in TALS, approve the method in TALS.						✓	✓	✓	✓
29. After verifying TALS is correct, lock method in Chrom <resolve any error issues>							✓		
30. Checklist & Entech report scanned, attached & assigned properly?						✓	✓	✓	✓
Analyst: Date: 8/25/16	2nd Level Reviewer: AEB					Date: 8/25/16			
Comments:	Comments:								

MS017r41, 5/25/2016

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Instrument ID: ME Start Date: 09/01/2016 09:39

Analysis Batch Number: 6440 End Date: 09/01/2016 23:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-6440/1		09/01/2016 09:39	1	EBFBI01.D	RTX-5 0.32(mm)
CCVIS 140-6440/2		09/01/2016 10:10	1	ECCVI01.D	RTX-5 0.32(mm)
LCS 140-6440/1002		09/01/2016 10:10	1	ECCVI01-LCS.d	RTX-5 0.32(mm)
MB 140-6440/4		09/01/2016 12:09	1	E500BI01.D	RTX-5 0.32(mm)
140-5720-1		09/01/2016 12:54	1.65	EI01P102.D	RTX-5 0.32(mm)
140-5720-2		09/01/2016 13:38	1	EI01P103.D	RTX-5 0.32(mm)
140-5720-3		09/01/2016 14:22	1.57	EI01P104.D	RTX-5 0.32(mm)
140-5720-4		09/01/2016 15:06	1.42	EI01P105.D	RTX-5 0.32(mm)
140-5720-5		09/01/2016 15:51	1.61	EI01P106.D	RTX-5 0.32(mm)
ZZZZZ		09/01/2016 16:35	1.42		RTX-5 0.32(mm)
140-5720-7		09/01/2016 17:24	1	EI01P108.D	RTX-5 0.32(mm)
140-5720-8		09/01/2016 18:12	14.16	EI01P109.D	RTX-5 0.32(mm)
140-5720-9		09/01/2016 18:56	1.46	EI01P110.D	RTX-5 0.32(mm)
140-5720-10		09/01/2016 19:43	4.65	EI01P111.D	RTX-5 0.32(mm)
140-5720-11		09/01/2016 20:28	14.47	EI01P112.D	RTX-5 0.32(mm)
140-5720-12		09/01/2016 21:12	1.47	EI01P113.D	RTX-5 0.32(mm)
140-5720-13		09/01/2016 21:55	1.51	EI01P114.D	RTX-5 0.32(mm)
140-5720-14		09/01/2016 22:38	25.98	EI01P115.D	RTX-5 0.32(mm)
140-5720-6		09/01/2016 23:25	1.42	EI01P107R.D	RTX-5 0.32(mm)

160901

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 101 mL	22.4	9/1/2016	9:39:50 AM
CCV	15 - 100 mL	34	9/1/2016	10:10:06 AM
dnuleak	16 - 50 mL	22.3	9/1/2016	11:25:42 AM
MB500	16 - 502 mL	21.5	9/1/2016	12:09:04 PM
5720-01	2 - 151 mL	9.9	9/1/2016	12:54:10 PM
5720-02	3 - 101 mL	6.4	9/1/2016	1:38:00 PM
5720-03	4 - 201 mL	9.2	9/1/2016	2:22:05 PM
5720-04	5 - 201 mL	8.3	9/1/2016	3:06:24 PM
5720-05	6 - 201 mL	9.9	9/1/2016	3:51:16 PM
5720-06	7 - 100 mL	4.8	9/1/2016	4:35:31 PM
5720-07	8 - 501 mL	4.5	9/1/2016	5:24:28 PM
5720-08	9 - 501 mL	14.1	9/1/2016	6:12:16 PM
5720-09	10 - 74 mL	14.1	9/1/2016	6:56:41 PM
5720-10	11 - 301 mL	12.9	9/1/2016	7:43:12 PM
5720-11	12 - 151 mL	15.3	9/1/2016	8:28:27 PM
5720-12	13 - 151 mL	9.1	9/1/2016	9:12:53 PM
5720-13	14 - 21 mL	13.3	9/1/2016	9:55:56 PM
5720-14	15 - 21 mL	15	9/1/2016	10:38:57 PM
5720-06R	7 - 300 mL	3.2	9/1/2016	11:25:46 PM

ME WL 3369

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

Instrument/Date	ME 9/1/16	Routine	AFCEE	DOD	OHIO
CCAL Chrom WL #	3369	CCAL Batch #	6440	NA	NA
ICAL Chrom WL #	3339	ICAL Batch # / Event #	6379 / 750		

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]	✓		✓
2. Did BFB meet tune criteria? [F8]	✓	☒ [Failed TO-14A, but passes TO-15] (NCM# 500)	✓
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]	✓		✓
4. Is the %D ≤ 30% for all target analytes? [≤ 40% for AFCEE non-table analytes] [≤ 50% for 1&2 methylnaphthalene] (NT) [Chrom-F8] [TALS-Sample Results Tab]	✓	☐ CCV - %D - LCS criteria met (NCM#_____) ☐ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM#_____)	✓
5. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		✓
• 2-methyl butane / acrolein	✓		✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		✓
• vinyl acetate / hexane	✓		✓
• cis- and trans- isomers	✓		✓
• ethyl benzene / m/p-xylene / o-xylene	✓		✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene	✓		✓
• tert-butylbenzene/4-isopropyltoluene	✓		✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		✓
• 1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	✓		✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene	✓		✓
• 2-, and 1-methylnaphthalene	✓		✓
6. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	NA		NA
7. Has the RT been updated to the method?	✓		✓
Analyst: [signature] **Date:** 9/1/16		**2nd Level Reviewer:** [signature] **Date:** 9/6/16	
Comments:		**Comments:**	
8. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]	✓		✓
9. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]	✓		✓
10. Were all samples/QC analyzed within 24 hr of BFB? [F7]	✓		✓
11. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*	✓	☐ Method Blank – Report, ND (NCM#_____) ☐ Method Blank – Report, 10X (NCM#_____)	✓
12. All runs - peaks ID'd correctly and false positives removed?	✓		✓
13. If manual integrations performed, are they properly performed, correctly ID'd, baseline clearly identified, and reason given?			✓
14. IS/Surr within limits? *List samples and reason (e.g., 1 thru 5):* [Batch Results IS & SUR Tab] Sample / Reason / Sample / Reason	✓	☐ (1) Surrogate – Matrix (NCM#_____) ☐ (2) Surrogate – High, ND (NCM#_____) ☐ (3) ISTD – RA/RA Concurs (NCM#_____) ☐ (4) Surrogate –RX concur, Report both (NCM#_____) ☐ (5) ISTD – Matrix, DL required (NCM#_____)	✓
15. Samples outside calibration range scheduled for dilution? *Samples:*	✓	☐ ICAL – Range Exceeded; Minimum Dilution	✓

Chrom Review	1st	If No, why is data reportable?	2nd
16. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample / Reason / Sample / Reason	✓	☐ (1) Reporting Limit – Dilution, Matrix (NCM#_____) ☒ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) ☐ (3) Issues with initial collection volume; see DRC. #8 NCM# 4998	✓
17. RIC inspected for proper integration for TPH?	NA		NA
18. Obvious non-TPH peaks excluded?	NA		NA

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

19. Individual TPH peak area < octane high point area?	NA		MS
TALS Review	**1st**	**If No, why is data reportable?**	**2nd**
20. Graphics uploaded? [Sample List Tab]	✓		✓
21. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?	✓		
22. Sample special instructions verified?	✓		✓
23. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.	✓	□ Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) □ LCS/LCSD - %R High (NCM#_____)	✓
24. Suffixes assigned properly (DL/RE)? [Sample List Tab]	NA		MS
25. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	✓		✓
26. Analytes over calibration range set to secondary [Conditions Review Tab]	✓		✓
27. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	✓		✓
28. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*	✓		✓
29. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	✓	500 mL blank ID: 4 200 mL blank ID: NA	✓
30. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	✓		✓
31. Correct ICV linked to each MB? [QC Links]	✓		✓
32. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	✓		✓
33. Runs set to 1st level review?	✓	Runs set to 2nd level review?	✓
34. QC checker run and items addressed?			✓
35. Checklist & Entech report scanned, attached & assigned properly?			✓

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst: JKS	**Date:** 9/2/16	**2nd Level Reviewer :**	**Date:** 09/06/16
Comments:		**Comments:**	
#8 elutes NCM# 4998			
"CV" MBK #12 NCM# 5011			
Example Calculation:			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			
5720 #8 Bz @ 1.17 → 16.57			
Rep-17 ✓			

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-5720-1

SDG No.:

Instrument ID: ME Start Date: 09/02/2016 13:21

Analysis Batch Number: 6493 End Date: 09/03/2016 03:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-6493/1		09/02/2016 13:21	1	EBFBI02A.D	RTX-5 0.32(mm)
CCVIS 140-6493/2		09/02/2016 13:50	1	ECCVI02A.D	RTX-5 0.32(mm)
LCS 140-6493/1002		09/02/2016 13:50	1	ECCVI02A-LCS.d	RTX-5 0.32(mm)
MB 140-6493/7		09/02/2016 16:02	1	LOT5745MB.D	RTX-5 0.32(mm)
ZZZZZ		09/02/2016 16:02	1		RTX-5 0.32(mm)
ZZZZZ		09/02/2016 16:46	1		RTX-5 0.32(mm)
ZZZZZ		09/02/2016 17:35	1		RTX-5 0.32(mm)
ZZZZZ		09/02/2016 19:46	1		RTX-5 0.32(mm)
ZZZZZ		09/02/2016 20:30	1		RTX-5 0.32(mm)
ZZZZZ		09/02/2016 21:15	1		RTX-5 0.32(mm)
140-5720-13 DL		09/02/2016 22:00	1.51	EI02p108.D	RTX-5 0.32(mm)
ZZZZZ		09/02/2016 22:44	128.98		RTX-5 0.32(mm)
ZZZZZ		09/02/2016 23:29	1363.27		RTX-5 0.32(mm)
ZZZZZ		09/03/2016 00:13	4714.29		RTX-5 0.32(mm)
ZZZZZ		09/03/2016 00:57	73.06		RTX-5 0.32(mm)
ZZZZZ		09/03/2016 03:11	1526.53		RTX-5 0.32(mm)

160902

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 100 mL	39.6	9/2/2016	1:21:10 PM
CCV	2 - 101 mL	22.3	9/2/2016	1:50:54 PM
FLUSH	15 - 51 mL	26.4	9/2/2016	3:29:23 PM
LOT5745	15 - 501 mL	24	9/2/2016	4:01:59 PM
MB200	16 - 200 mL	38.8	9/2/2016	4:46:18 PM
LOT5747	1 - 501 mL	14.5	9/2/2016	5:35:10 PM
116386-01	3 - 11 mL	12.1	9/2/2016	6:18:50 PM
116386-02	4 - 21 mL	11.3	9/2/2016	7:02:38 PM
116386-03	5 - 51 mL	9.7	9/2/2016	7:46:30 PM
5746-01	6 - 201 mL	12.9	9/2/2016	8:30:38 PM
5746-02	7 - 201 mL	12.7	9/2/2016	9:15:04 PM
5720-13DL	8 - 11 mL	13.2	9/2/2016	9:59:58 PM
5742-01	9 - 111 mL	15.6	9/2/2016	10:44:19 PM
5742-02	10 - 71 mL	17.1	9/2/2016	11:29:07 PM
5742-03	11 - 41 mL	25.1	9/3/2016	12:13:22 AM
5740-01	12 - 141 mL	18.4	9/3/2016	12:57:22 AM
5751-01DU	13 - 21 mL	8.4	9/3/2016	1:41:46 AM
5751-01	13 - 21 mL	6.3	9/3/2016	2:26:17 AM
5754-01	14 - 81 mL	19.7	9/3/2016	3:11:00 AM

ME WL 3370

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

Instrument/Date	ME 9/2/16	Routine	AFCEE	DOD	OHIO
CCAL Chrom WL #	3370	CCAL Batch #	6493	NA	NA
ICAL Chrom WL #	3339	ICAL Batch # / Event #	6379 / 750		

Chrom Review	1st	If No, why is data reportable?	2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]	✓		✓
2. Did BFB meet tune criteria? [F8]	✓	☒ [Failed TO-14A, but passes TO-15] (NCM# 5009)	✓
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICal File batch #/start/end Cal date/time)? [F8]	✓		✓
4. Is the %D ≤ 30% for all target analytes? 2mnaphthath. [≤ 40% for AFCEE non-table analytes] [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab] (MT)	✓	☐ CCV - %D - LCS criteria met (NCM#_____) ☐ CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM#_____)	✓
5. Elution order checked on isomeric pairs? [Chrom] 9/9/16			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		✓
• 2-methyl butane / acrolein	✓		✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		✓
• vinyl acetate / hexane	✓		✓
• cis- and trans- isomers	✓		✓
• ethyl benzene / m/p-xylene / o-xylene	✓		✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene	✓		✓
• tert-butylbenzene/4-isopropyltoluene	✓		✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene	✓		✓
• 1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	✓		✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene	✓		✓
• 2-, and 1-methylnaphthalene	✓		✓
6. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	NA		✓
7. Has the RT been updated to the method?	✓		✓
Analyst: AB **Date:** 9/2/16		**2nd Level Reviewer :** ✓ **Date:** 9/6/16	
Comments:		**Comments:**	
8. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]	✓		✓
9. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]	✓		✓
10. Were all samples/QC analyzed within 24 hr of BFB? [F7]	✓		✓
11. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). *If no, list blank ID:*	✓	☐ Method Blank – Report, ND (NCM#_____) ☐ Method Blank – Report, 10X (NCM#_____)	✓
12. All runs - peaks ID'd correctly and false positives removed?	✓		✓
13. If manual integrations performed, are they properly performed, correctly ID'd, baseline clearly identified, and reason given?	✓		✓
14. IS/Surr within limits? *List samples and reason (e.g., 1 thru 5):* [Batch Results IS & SUR Tab] Sample / Reason / Sample / Reason	✓	☐ (1) Surrogate – Matrix (NCM#_____) ☐ (2) Surrogate – High, ND (NCM#_____) ☐ (3) ISTD – RA/RA Concurs (NCM#_____) ☐ (4) Surrogate –RX concur, Report both (NCM#_____) ☐ (5) ISTD – Matrix, DL required (NCM#_____)	✓
15. Samples outside calibration range scheduled for dilution? *Samples:*	✓	☐ ICAL – Range Exceeded; Minimum Dilution	✓

Chrom Review	1st	If No, why is data reportable?	2nd
16. For first analysis that is at a dilution, is highest target analyte >20% cal range? *List samples and reason:* Sample / Reason / Sample / Reason	✓	☐ (1) Reporting Limit – Dilution, Matrix (NCM#_____) ☐ (2) Reporting Limit – Dilution, Non-Target (NCM#_____) ☐ (3) Issues with initial collection volume; see DRC.	✓
17. RIC inspected for proper integration for TPH?	NA		NA
18. Obvious non-TPH peaks excluded?	NA		J

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

19. Individual TPH peak area < octane high point area?	NA		NA
TALS Review	1st	If No, why is data reportable?	2nd
20. Graphics uploaded? [Sample List Tab]	✓		✓
21. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?	✓		
22. Sample special instructions verified?	✓		✓
23. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: No LCS required for OH VAP.	✓	□ Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) □ LCS/LCSD - %R High (NCM#_____)	✓
24. Suffixes assigned properly (DL/RE)? [Sample List Tab]	✓		✓
25. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	✓		✓
26. Analytes over calibration range set to secondary [Conditions Review Tab]	✓		✓
27. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	✓		✓
28. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) *(If DUP not reported - set to 'Acceptable' for each job)*	✓	RR next Batch	✓
29. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	✓	500 mL blank ID: 7 200 mL blank ID: 4	✓
30. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	✓		✓
31. Correct ICV linked to each MB? [QC Links]	✓		✓
32. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	✓		✓
33. Runs set to 1st level review?	✓	Runs set to 2nd level review?	✓
34. QC checker run and items addressed?			✓
35. Checklist & Entech report scanned, attached & assigned properly?			✓

Analyst: JHB	**Date:** 9/6/16	**2nd Level Reviewer :**	**Date:** 09/06/16
Comments:		**Comments:**	
500-116386#3 "CN" Acetone NCM# 5008 & 5746 #1 & 2			
Example Calculation:			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			
5754 #1 FCC @ 4.35 → 41502.5 Rep. 42k ✓			

Summa Canister Dilution Worksheet

Client: New York State D.E.C.

Job No.: 140-5720-1

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
140-5720-1	6	-9.7	0.68	4.05	+1.7	1.12	6.69		1.65	1.65	08/30/16 14:39	Barlozhetskaya, Anna F
140-5720-3	6	-10.9	0.64	3.81	0.0	1.00	6.00		1.57	1.57	08/30/16 14:40	Barlozhetskaya, Anna F
140-5720-4	6	-8.8	0.71	4.24	0.0	1.00	6.00		1.42	1.42	08/30/16 14:41	Barlozhetskaya, Anna F
140-5720-5	6	-11.3	0.62	3.73	0.0	1.00	6.00		1.61	1.61	08/30/16 14:41	Barlozhetskaya, Anna F
140-5720-6	6	-8.8	0.71	4.24	0.0	1.00	6.00		1.42	1.42	08/30/16 14:42	Barlozhetskaya, Anna F
140-5720-8	6	-8.0	0.73	4.40	0.0	1.00	6.00		1.36	1.37	08/30/16 15:06	Barlozhetskaya, Anna F
140-5720-8	6	0	1.00	6.00	32.3	3.20	19.18		3.20	4.36	08/31/16 10:12	Barlozhetskaya, Anna F
140-5720-8	6	0	1.00	6.00	33.0	3.24	19.47		3.24	14.16	08/31/16 10:16	Barlozhetskaya, Anna F
140-5720-9	6	-8.6	0.71	4.28	0.6	1.04	6.24		1.46	1.46	08/30/16 15:06	Barlozhetskaya, Anna F
140-5720-10	6	-9.2	0.69	4.16	0.0	1.00	6.00		1.44	1.44	08/30/16 15:06	Barlozhetskaya, Anna F
140-5720-10	6	0	1.00	6.00	32.6	3.22	19.31		3.22	4.65	08/31/16 10:14	Barlozhetskaya, Anna F
140-5720-11	6	-9.7	0.68	4.05	0.0	1.00	6.00		1.48	1.48	08/30/16 15:06	Barlozhetskaya, Anna F
140-5720-11	6	0	1.00	6.00	32.9	3.24	19.43		3.24	4.79	08/31/16 10:15	Barlozhetskaya, Anna F
140-5720-11	6	0	1.00	6.00	29.7	3.02	18.12		3.02	14.47	08/31/16 10:18	Barlozhetskaya, Anna F
140-5720-12	6	-9.5	0.68	4.09	0.0	1.00	6.00		1.47	1.47	08/30/16 15:07	Barlozhetskaya, Anna F
140-5720-13	6	-7.8	0.74	4.44	1.7	1.12	6.69		1.51	1.51	08/30/16 15:12	Barlozhetskaya, Anna F
140-5720-14	6	-9.6	0.68	4.07	0.9	1.06	6.37		1.56	1.56	08/30/16 15:13	Barlozhetskaya, Anna F
140-5720-14	6	0.0	1.00	6.00	25.1	2.71	16.24		2.71	4.23	09/01/16 10:59	Barlozhetskaya, Anna F
140-5720-14	6	0.0	1.00	6.00	23.0	2.56	15.39		2.56	10.85	09/01/16 11:00	Barlozhetskaya, Anna F
140-5720-14	6	0.0	1.00	6.00	20.5	2.39	14.37		2.39	25.98	09/01/16 11:02	Barlozhetskaya, Anna F

Summa Canister Dilution Worksheet

Client: New York State D.E.C.

Job No.: 140-5720-1

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

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.: 140-5454-1

SDG No.:

Client Sample ID: 10774 Lab Sample ID: 140-5454-11

Matrix: Air Lab File ID: LOT5454.D

Analysis Method: TO 15 LL Date Collected: 07/27/2016 09:55

Sample wt/vol: 500(mL) Date Analyzed: 07/28/2016 16:11

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.: 6016 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.: 140-5454-1

SDG No.:

Client Sample ID: 10774 | Lab Sample ID: 140-5454-11

Matrix: Air | Lab File ID: LOT5454.D

Analysis Method: TO 15 LL | Date Collected: 07/27/2016 09:55

Sample wt/vol: 500(mL) | Date Analyzed: 07/28/2016 16:11

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.: 6016 | 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		2.0	
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.: 140-5454-1

SDG No.:

Client Sample ID: 10774 | Lab Sample ID: 140-5454-11

Matrix: Air | Lab File ID: LOT5454.D

Analysis Method: TO 15 LL | Date Collected: 07/27/2016 09:55

Sample wt/vol: 500(mL) | Date Analyzed: 07/28/2016 16:11

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.: 6016 | 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.: 140-5454-1

SDG No.:

Client Sample ID: 10774 Lab Sample ID: 140-5454-11

Matrix: Air Lab File ID: LOT5454.D

Analysis Method: TO 15 LL Date Collected: 07/27/2016 09:55

Sample wt/vol: 500(mL) Date Analyzed: 07/28/2016 16:11

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.: 6016 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: \\ChromNA\Knoxville\ChromData\MG\20160726-3235.b\LOT5454.D
Lims ID: 140-5454-A-11
Client ID: 10774
Sample Type: Client
Inject. Date: 28-Jul-2016 16:11:30 ALS Bottle#: 2 Worklist Smp#: 9
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 140-0003235-009
Misc. Info.: 10774
Operator ID: 7126 Instrument ID: MG

Method: \\ChromNA\Knoxville\ChromData\MG\20160726-3235.b\MG_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 29-Jul-2016 13:35:00 Calib Date: 20-Jul-2016 20:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: barlozhetskayaa Date: 29-Jul-2016 13:35:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.498	8.503	-0.005	96	506000	4.00	
* 2 1,4-Difluorobenzene	114	10.665	10.671	-0.006	95	2427550	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.432	15.438	-0.006	88	2288973	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.093	0.000	95	1398920	3.50	
17 Ethanol	31	4.707	4.701	0.006	98	55184	0.7603	
25 Isopropyl alcohol	45	5.348	5.332	0.016	99	29183	0.1298	
31 Methylene Chloride	84	6.087	6.093	-0.006	96	6858	0.0557	
51 n-Butanol	31	10.158	10.126	0.032	95	11647	0.1623	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

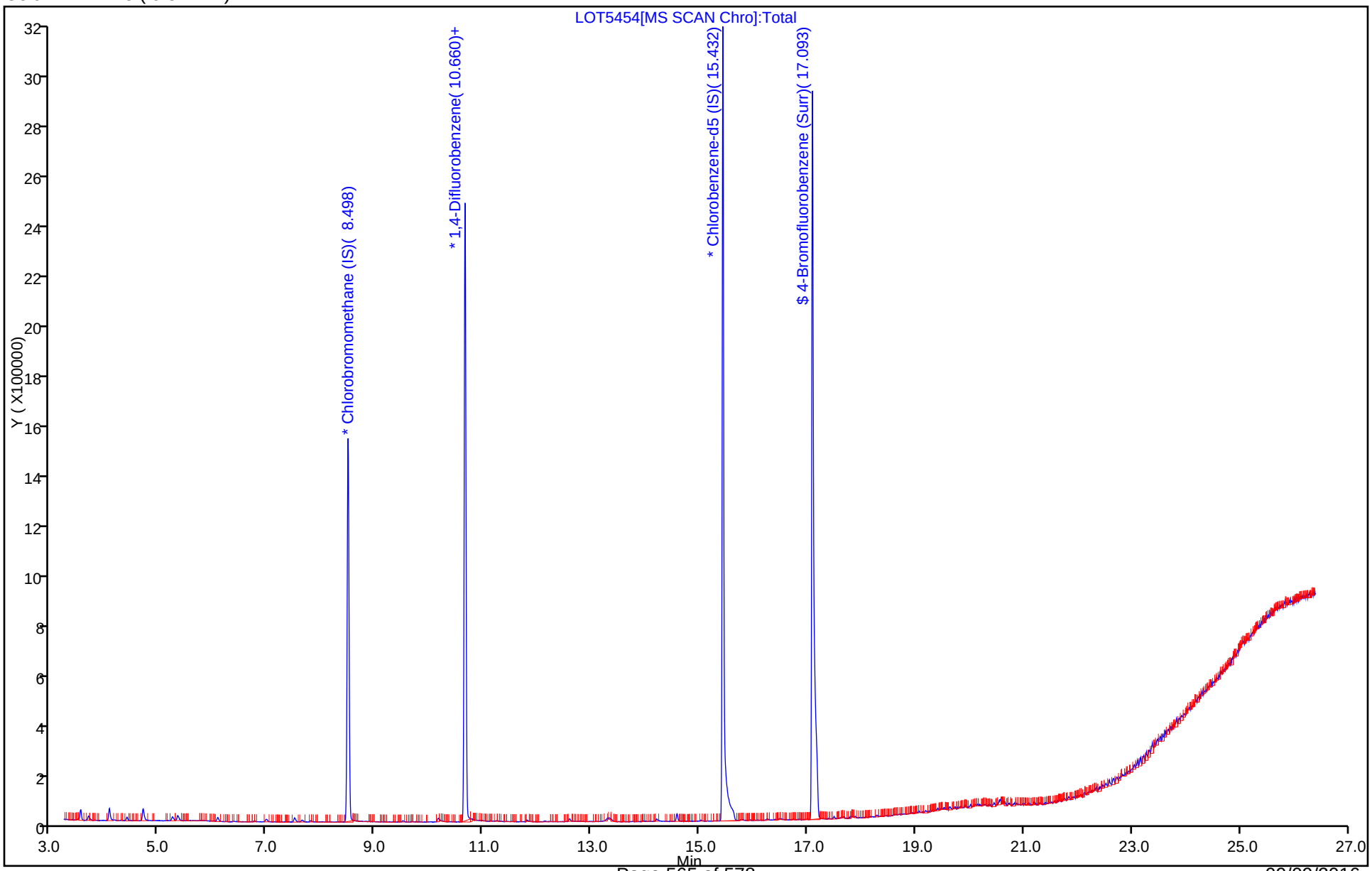
Report Date: 29-Jul-2016 13:35:38 Chrom Revision: 2.2 18-Jul-2016 15:30:42

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160726-3235.b\LOT5454.D

Injection Date:	28-Jul-2016 16:11:30	Instrument ID:	MG	Operator ID:	7126
Lims ID:	140-5454-A-11	Lab Sample ID:	140-5454-11	Worklist Smp#:	9
Client ID:	10774				
Purge Vol:	500.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
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.: 140-5472-1

SDG No.:

Client Sample ID: 10236 | Lab Sample ID: 140-5472-3

Matrix: Air | Lab File ID: LOT5272-3.D

Analysis Method: TO 15 LL | Date Collected: 07/28/2016 16:50

Sample wt/vol: 500(mL) | Date Analyzed: 07/30/2016 07:56

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.: 6021 | 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.: 140-5472-1

SDG No.:

Client Sample ID: 10236 | Lab Sample ID: 140-5472-3

Matrix: Air | Lab File ID: LOT5272-3.D

Analysis Method: TO 15 LL | Date Collected: 07/28/2016 16:50

Sample wt/vol: 500(mL) | Date Analyzed: 07/30/2016 07:56

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.: 6021 | 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		2.0	
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.: 140-5472-1

SDG No.:

Client Sample ID: 10236 | Lab Sample ID: 140-5472-3

Matrix: Air | Lab File ID: LOT5272-3.D

Analysis Method: TO 15 LL | Date Collected: 07/28/2016 16:50

Sample wt/vol: 500(mL) | Date Analyzed: 07/30/2016 07:56

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.: 6021 | 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.: 140-5472-1

SDG No.:

Client Sample ID: 10236 Lab Sample ID: 140-5472-3

Matrix: Air Lab File ID: LOT5272-3.D

Analysis Method: TO 15 LL Date Collected: 07/28/2016 16:50

Sample wt/vol: 500(mL) Date Analyzed: 07/30/2016 07:56

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.: 6021 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:	\\ChromNA\Knoxville\ChromData\MJ\20160726-3240.b\LOT5272-3.D				
Lims ID:	140-5472-A-3				
Client ID:	10236				
Sample Type:	Client				
Inject. Date:	30-Jul-2016 07:56:30	ALS Bottle#:	17	Worklist Smp#:	25
Purge Vol:	500.000 mL	Dil. Factor:	1.0000		
Sample Info:	140-0003240-025				
Misc. Info.:	10236				
Operator ID:	403648	Instrument ID:	MJ		
Method:	\\ChromNA\Knoxville\ChromData\MJ\20160726-3240.b\MJ_TO15.m				
Limit Group:	MSA TO14A_15 Routine ICAL				
Last Update:	01-Aug-2016 11:36:02	Calib Date:	22-Jun-2016 23:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D				
Column 1 :	RTX-5 (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK005				
First Level Reviewer: tajh		Date:	01-Aug-2016 11:33:36		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.361	9.360	0.001	95	216384	4.00	
* 2 1,4-Difluorobenzene	114	11.524	11.523	0.001	97	996156	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.204	16.203	0.001	90	860440	4.00	
$ 4 4-Bromofluorobenzene (Surr	95	17.829	17.828	0.001	87	508020	4.00	
33 Carbon disulfide	76	6.908	6.891	0.017	80	4121	0.0227	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

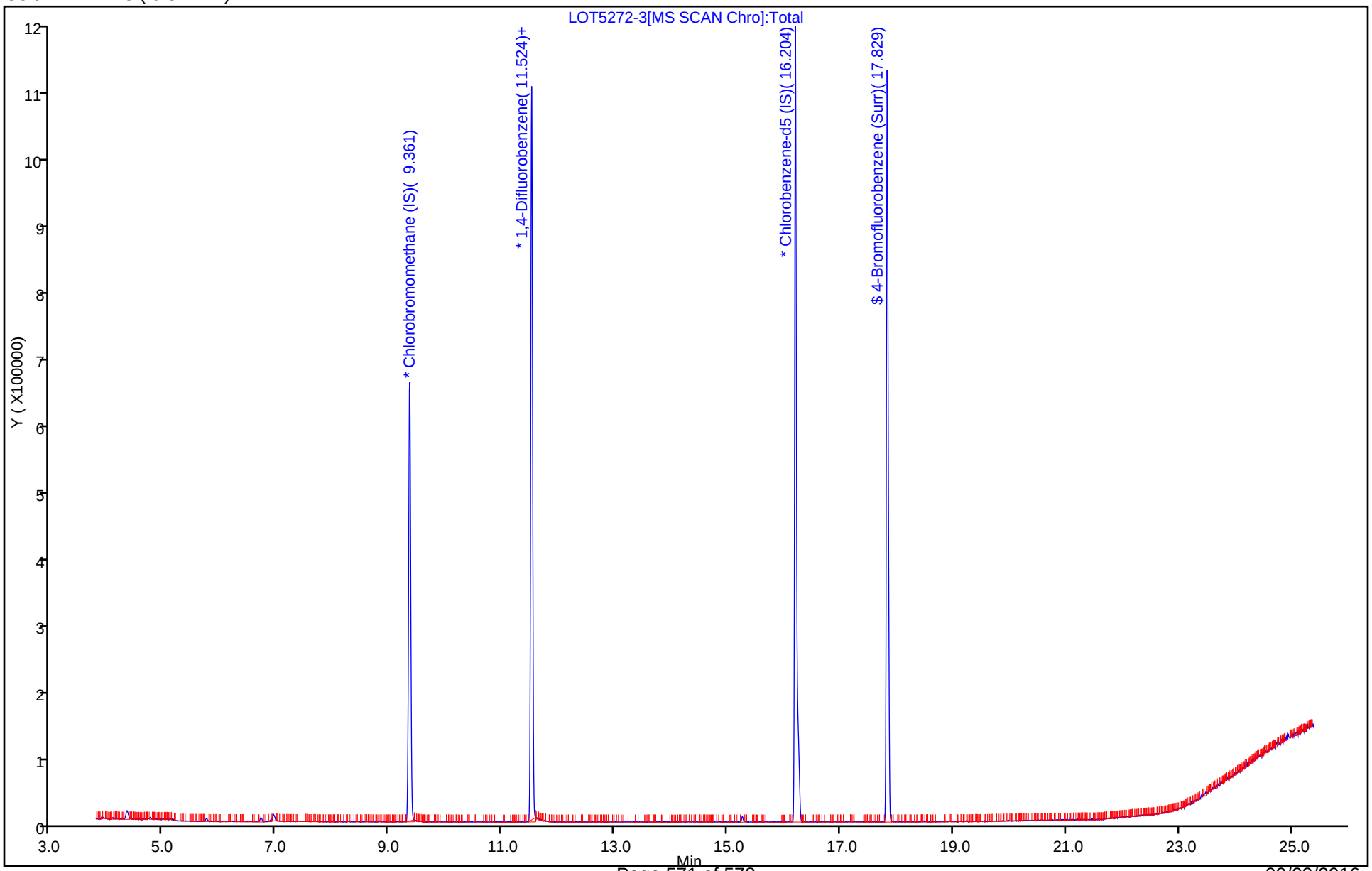
Report Date: 01-Aug-2016 11:37:12 Chrom Revision: 2.2 18-Jul-2016 15:30:42

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160726-3240.b\LOT5272-3.D

Injection Date:	30-Jul-2016 07:56:30	Instrument ID:	MJ	Operator ID:	403648
Lims ID:	140-5472-A-3	Lab Sample ID:	140-5472-3	Worklist Smp#:	25
Client ID:	10236				
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)



Shipping and Receiving Documents

McKinney, Jamie

From: Michael Alliegro <michaela@envirotrac.com>
Sent: Wednesday, August 31, 2016 2:15 PM
To: McKinney, Jamie
Subject: NYSDEC Former Goodman BROS.

Jamie It appears we wrote the same sample ID twice(SG-218) on the chain of custody. Can you edit the SG-218 sampled from 10:57-11:55 to read SG-215.
Thank you.
Mike Alliegro.

Sent from my iPhone

Michael Alliegro | Project Scientist | EnviroTrac Ltd. | 5 Old Dock Road, Yaphank NY 11980
631.924.3001 (Office) | 631.924.5001 (Fax) | 631.300.6869 (Cell) | michaela@envirotrac.com
_____ Solutions in Action - http://www.envirotrac.com

[http://www.envirotrac.com/imgs/email.jpg] [http://www.envirotrac.com/imgs/isn.gif]
[http://www.envirotrac.com/imgs/pics.jpg] [http://www.envirotrac.com/imgs/twic.jpg]
CONFIDENTIALITY: This e-mail (including any attachments) may contain confidential, proprietary and privileged information, and unauthorized disclosure or use is prohibited. If you received this e-mail in error, please notify the sender and delete this e-mail from your system.

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

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: J. BOHLEN	Sampled By: DA / M.A.	1 of 3 COCs
Company: Envirotrac Ltd.	Phone: 631-924-3001		
Address: 5 (A) DOCK RD.	Site Contact: DAVE HARRINGTON (DEC)		
City/State/Zip: VAPHANK, NY 11980	TAL Contact: ~~MELISSA HAAS~~ JAMIE MCKINNEY		
Phone: (631-924-3001			
FAX: 631-924-5001			
Project Name: GOODMAN BROS.	Analysis Turnaround Time		
Site/location: Brooklyn, NY	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	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)
SG-218	8/24/16	10:51	11:55	-30+	-10.5	09948	04413	X											
SG-214	"	10:57	11:57	-30+	-6	10863	10382	"											
SG-212	"	11:47	12:57	-30+	-13	10853	09628	"											
SG-212B	"	11:47	12:57	-30+	-8.5	11502	11195	"											
SG-211	"	11:52	12:55	-30+	-12	10853	09628	"											
SG-213	↓	12:12	1:15	-30+	-10.5	10860	11245	↓											

Sampled by :

140-5720 Chain of Custody

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Received @ ambient, 2 boxes
No custody seal, FedEx SO
trk# 7770 8098 8077
" " 8170
KW 8/26/16
trk# 7770 8098 8099
the rest of the
cans arrived 8/29/16
0930

Special Instructions/QC Requirements & Comments:

CAT B / Deliverables

Canisters Shipped by: Nenita Amascato	Date/Time: 8/24/2016 5:00pm	Canisters Received by: [illegible] 8/25 1512
Samples Relinquished by: [signature]	Date/Time: 8/25/16 15:07p	Received by: [signature] 8/26/16 0945
Relinquished by:	Date/Time:	Received by:

10 cans
10 flows
+4 more cans
1 cc

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

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: J. Bohlen	Sampled By: DA/MA	2 of 3 COCs
Company: EnviroTrac Ltd.	Phone: 631-924-3001		
Address: 5 OLD DOCK Rd	Site Contact: D. HARRINGTON		
City/State/Zip: YAPHANK, NY 11980	TAL Contact: JAMIE HARRINGTON		
Phone: (631-924-3001			
FAX: 631-924-5001			
Project Name: GOODMAN BROS.	Analysis Turnaround Time		
Site/location: Brooklyn	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	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)
~~SG-213~~	8/24/16	12:12	1:15	-30	~~10.5~~	~~11365~~	10860	X											
AA-1	↓	12:09	1:14	-30	~~10579~~ 10571	~~10579~~ 11501	11501												
SG-217	↓	12:22	1:25	-30	~~10826~~	~~10826~~ 10442	10442	↓											

Sampled by :	Temperature (Fahrenheit)		
	Interior	Ambient	
Start			
Stop			

	Pressure (inches of Hg)		
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

CAT B/Deliverables

Canisters Shipped by:	Date/Time:	Canisters Received by:	
Nadia Knoxcato	8/24/16 5:00pm		8/25 15
Samples Relinquished by:	Date/Time:	Received by:	
	8/25/16 1500 pm		8/26/16 0945
Relinquished by:	Date/Time:	Received by:	

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

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: J. BOHLEN	Sampled By: D.A/M.A.	3 of 3 COCs
Company: ENVIROTRAC LTD.	Phone: 631 924-3001		
Address: 5 OLD DOCK Rd.	Site Contact: DAVE HARRINGTON (DEC)		
City/State/Zip YAPHANK, NY 11980	TAL Contact: JAMIE MCKINNEY		
Phone: 631 924-3001			
FAX: 631-924-5001			
Project Name: GOODMAN BROS	Analysis Turnaround Time		
Site/location: Brooklyn, NY	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	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)
SG-218	8/24/16	10:10	11:10	-30+	-11	11487	10987	X											
SG-216		10:13	11:13	-30+	-13	10196	10381												
SG-219		10:16	11:16	-30	-9.5	10053	11153												
SG-220		10:18	11:19	-30+	-11	09716	10882												
SG-222		10:20	11:29	-30	-9	09712	09613												
SG-221		10:21	11:28	-30+	-9	10467	10133												

Sampled by :	Temperature (Fahrenheit)		
	Interior	Ambient	
Start			
Stop			

	Pressure (inches of Hg)		
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

CAT B/ Deliverables

Canisters Shipped by:	Date/Time:	Canisters Received by:	
Donna Amoscato	8/24/2016 5:00pm		8/26/16 15
Samples Relinquished by:	Date/Time:	Received by:	
John Woody	8/25/16 1550		8/26/16 0945
Relinquished by:	Date/Time:	Received by:	

09/09/2016

Loc: 140
5720

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?
1. Are the shipping containers intact?	/			☐ **Containers, Broken**
2. Were ambient air containers received intact?			/	☑ Checked in lab
3. The coolers/containers custody seal if present, is it intact?	/			☐ Yes ☐ NA
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID :_____ Correction factor: _____			/	☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**
5. Were all of the sample containers received intact?	/			☐ **Containers, Broken**
6. Were samples received in appropriate containers?	/			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**
7. Do sample container labels match COC? (IDs, Dates, Times)	/			☐ **COC & Samples Do Not Match** ☐ **COC Incorrect/Incomplete** ☐ **COC Not Received**
8. Were all of the samples listed on the COC received?	/			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**
9. Is the date/time of sample collection noted?	/			☐ **COC; No Date/Time; Client Contacted**
10. Was the sampler identified on the COC?	/			☐ **Sampler Not Listed on COC**
11. Is the client and project name/# identified?	/			☐ **COC Incorrect/Incomplete**
12. Are tests/parameters listed for each sample?	/			☐ **COC No tests on COC**
13. Is the matrix of the samples noted?	/			☐ **COC Incorrect/Incomplete**
14. Was COC relinquished? (Signed/Dated/Timed)	/			☐ **COC Incorrect/Incomplete**
15. Were samples received within holding time?	/			☐ **Holding Time - Receipt**
16. Were samples received with correct chemical preservative (excluding Encore)?			/	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**
17. Were VOA samples received without headspace?			/	☐ **Headspace (VOA only)**
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:_____			/	☐ **Residual Chlorine**
19. For 1613B water samples is pH<9?			/	☐ If no, lab will adjust
20. For rad samples was sample activity info. Provided?			/	☐ Project missing info

Comments/Actions Taken

Labeling Verified by: **Date:**

pH test strip lot number:

	Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Project #: 14003521 PM Instructions:

Sample Receiving Associate: Ke O Date: 8/30/16

QA026R30.doc, 080916

140-5720

09/09/2016

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G5
Date: 8/30/2016

Analyst	Sample ID	Asset #	Cleaning Job	Cert	Size (L)	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
HMT	140-5720-a-1	09872	5454	B	6	-9.7	14:34	+1.7
HMT	140-5720-a-2	10382	5472	B	6	-4.2	14:35	
HMT	140-5720-a-3	10282	5454	B	6	-10.9	14:36	0.0
HMT	140-5720-a-4	11195	5454	B	6	-8.8	14:37	0.0
HMT	140-5720-a-5	09628	5472	B	6	-11.3	14:38	0.0
HMT	140-5720-a-6	11265	5454	B	6	-8.8	14:39	0.0
HMT	140-5720-a-7	10579	5454	B	6	-3.6	14:40	
HMT	140-5720-a-8	10826	5454	B	6	-8.0	14:41	0.0
HMT	140-5720-a-9	10987	5454	B	6	-8.6	14:42	+0.6
HMT	140-5720-a-10	10381	5454	B	6	-9.2	14:43	0.0
HMT	140-5720-a-11	11153	5454	B	6	-9.7	14:44	0.0
HMT	140-5720-a-12	10882	5454	B	6	-9.5	14:45	0.0
HMT	140-5720-a-13	09613	5454	B	6	-7.8	14:46	+1.7
HMT	140-5720-a-14	10133	5454	B	6	-9.6	14:47	+0.9

APPENDIX F

Data Usability Summary Report

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
FORMER GOODMAN BROTHERS, BROOKLYN, NEW YORK

Client: EnviroTrac Ltd., Yaphank, New York
SDG: 140-5720-1
Laboratory: TestAmerica, Inc., Knoxville, Tennessee
Site: Former Goodman Brothers, Brooklyn, New York
Date: November 7, 2016

EDS ID	Client ID	Laboratory ID	Matrix
1	SG-215	140-5720-1	Air
2	SG-214	140-5720-2	Air
3	SG-212	140-5720-3	Air
4	SG-212B	140-5720-4	Air
5	SG-211	140-5720-5	Air
6	SG-213	140-5720-6	Air
7	AA-1	140-5720-7	Air
8	SG-217	140-5720-8	Air
9	SG-218	140-5720-9	Air
10	SG-216	140-5720-10	Air
11	SG-219	140-5720-11	Air
12	SG-220	140-5720-12	Air
13	SG-222	140-5720-13	Air
14	SG-221	140-5720-14	Air

A Data Usability Summary Review was performed on the analytical data for fourteen air samples collected on August 24, 2016 by EnviroTrac at the Former Goodman Brothers site in Brooklyn, New York, New York. The samples were analyzed under "*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition January 1999, EPA/625/R-96/010B*", 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)*", *and Natural Gas Analysis by Modified ASTM D-1946 for Helium.*

The data have been evaluated according to the protocols and quality control (QC) requirements of the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 6, June 2014: Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, and the reviewer's professional judgment.

Organics

The following items/criteria were reviewed for this report:

- Data Completeness
- Cover letter, Narrative, and Data Reporting Forms

- Canister Certification Blanks
- Canister Certification Pressures Differences
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- Laboratory Control Sample (LCS) recoveries
- Surrogate Compound Recoveries
- GC/MS Tuning
- Method Blank Contamination
- Initial and Continuing Calibration Summaries
- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision

Overall Evaluation of Data and Potential Usability Issues

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the following deficiencies.

- 4-Methyl-2-pentanone was qualified as estimated in one sample due to compound interference.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Cover letter, Narrative, and Data Reporting Forms

- All criteria were met

Canister Certification Blanks

- The batch blank checks were non-detect or < RL.

Canister Certification Pressures Differences

- All criteria were met.

Chains-of-Custody and Traffic Reports

- All criteria were met

Holding Times

- All samples were analyzed within 30 days for air samples.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Surrogate Compound Recoveries

- All samples exhibited acceptable surrogate recoveries.

GC/MS Tuning

- All criteria were met.

Method Blank

- The method blanks were free of contamination.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Compound Quantitation

- EDS Sample ID #12 exhibited 4-methyl-2-pentanone with an interfering non-target compound. This result may be biased high and was flagged (CN) by the laboratory and further qualified as estimated (J) by the reviewer.

- EDS Sample ID #13 exhibited a high concentration of 1,1,2-trichlorotrifluoroethane over the calibration range of the instrument and was flagged (E) by the laboratory. The sample was diluted and reanalyzed and the dilution result for this compound should be used for reporting purposes.
- Several samples were analyzed at a dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was taken on this basis.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	SG-212 ppbv	SG-212B ppbv	RPD	Qualifier
1,1,1-Trichloroethane	0.95	0.97	2%	None
1,2,4-Trimethylbenzene	1.5	1.7	13%	
1,3,5-Trimethylbenzene	0.36	0.38	5%	
1,4-Dichlorobenzene	17	19	11%	
2-Butanone	15	16	6%	
Benzene	0.42	0.43	2%	
Bromodichloromethane	0.31U	0.28	NC	
Chloroform	3.2	3.2	0%	
Dichlorodifluoromethane	0.38	0.36	5%	
Ethanol	7.9U	12	NC	
Ethylbenzene	0.59	0.65	10%	
Hexane	1.2	1.3	8%	
Methylene Chloride	0.79U	1.1	NC	
m,p-Xylene	2.5	2.7	8%	
o-Xylene	1.2	1.3	8%	
t-Butyl Alcohol	2.4	2.1	13%	
Tetrachloroethene	3.1	3.2	3%	
Toluene	2.1	2.3	9%	
Trichlorofluoromethane	0.50	0.56	11%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/7/16

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 | Lab Sample ID: 140-5720-1

Matrix: Air | Lab File ID: EI01P102.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: | Dilution Factor: 1.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.44
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.44
75-34-3	1,1-Dichloroethane	98.96	ND		0.44
75-35-4	1,1-Dichloroethene	96.94	ND		0.44
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.44
95-63-6	1,2,4-Trimethylbenzene	120.20	1.8		0.44
106-93-4	1,2-Dibromoethane	187.87	ND		0.44
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.44
107-06-2	1,2-Dichloroethane	98.96	ND		0.44
78-87-5	1,2-Dichloropropane	112.99	ND		0.44
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.44
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.44
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.44
106-46-7	1,4-Dichlorobenzene	147.00	18		0.44
123-91-1	1,4-Dioxane	88.11	ND		1.1
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.1
78-93-3	2-Butanone	72.11	12		1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.5		1.1
71-43-2	Benzene	78.11	2.5		0.44
100-44-7	Benzyl chloride	126.58	ND		0.88
75-27-4	Bromodichloromethane	163.83	0.44		0.44
75-25-2	Bromoform	252.75	ND		0.44
74-83-9	Bromomethane	94.94	ND		0.44
56-23-5	Carbon tetrachloride	153.81	ND		0.22
108-90-7	Chlorobenzene	112.56	ND		0.44
75-00-3	Chloroethane	64.52	ND		0.44
67-66-3	Chloroform	119.38	5.8		0.44
74-87-3	Chloromethane	50.49	ND		1.1
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.44
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.44
110-82-7	Cyclohexane	84.16	ND		1.1

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 | Lab Sample ID: 140-5720-1

Matrix: Air | Lab File ID: EI01P102.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: | Dilution Factor: 1.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.44
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.44
64-17-5	Ethanol	46.07	11		11
100-41-4	Ethylbenzene	106.17	1.1		0.44
87-68-3	Hexachlorobutadiene	260.76	ND		0.44
110-54-3	Hexane	86.17	8.2		1.1
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.88
75-09-2	Methylene Chloride	84.93	ND		1.1
179601-23-1	m-Xylene & p-Xylene	106.17	3.9		0.44
95-47-6	o-Xylene	106.17	1.9		0.44
100-42-5	Styrene	104.15	ND		0.44
75-65-0	t-Butyl alcohol	74.12	2.0		1.8
127-18-4	Tetrachloroethene	165.83	2.6		0.44
108-88-3	Toluene	92.14	4.3		0.66
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.44
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.44
79-01-6	Trichloroethene	131.39	ND		0.22
75-69-4	Trichlorofluoromethane	137.37	2.9		0.44
75-01-4	Vinyl chloride	62.50	ND		0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 | Lab Sample ID: 140-5720-1

Matrix: Air | Lab File ID: EI01P102.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: | Dilution Factor: 1.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.4
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		3.0
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.4
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.4
75-34-3	1,1-Dichloroethane	98.96	ND		1.8
75-35-4	1,1-Dichloroethene	96.94	ND		1.7
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.3
95-63-6	1,2,4-Trimethylbenzene	120.20	8.9		2.2
106-93-4	1,2-Dibromoethane	187.87	ND		3.4
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.6
107-06-2	1,2-Dichloroethane	98.96	ND		1.8
78-87-5	1,2-Dichloropropane	112.99	ND		2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		3.1
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		2.2
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.6
106-46-7	1,4-Dichlorobenzene	147.00	110		2.6
123-91-1	1,4-Dioxane	88.11	ND		4.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		5.1
78-93-3	2-Butanone	72.11	36		5.2
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	6.0		4.5
71-43-2	Benzene	78.11	8.1		1.4
100-44-7	Benzyl chloride	126.58	ND		4.6
75-27-4	Bromodichloromethane	163.83	3.0		2.9
75-25-2	Bromoform	252.75	ND		4.5
74-83-9	Bromomethane	94.94	ND		1.7
56-23-5	Carbon tetrachloride	153.81	ND		1.4
108-90-7	Chlorobenzene	112.56	ND		2.0
75-00-3	Chloroethane	64.52	ND		1.2
67-66-3	Chloroform	119.38	28		2.1
74-87-3	Chloromethane	50.49	ND		2.3
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.7
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		2.0
110-82-7	Cyclohexane	84.16	ND		3.8

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-215 | Lab Sample ID: 140-5720-1

Matrix: Air | Lab File ID: EI01P102.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:55

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 12:54

Soil Aliquot Vol: | Dilution Factor: 1.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.7
75-71-8	Dichlorodifluoromethane	120.91	2.2		2.2
64-17-5	Ethanol	46.07	20		21
100-41-4	Ethylbenzene	106.17	4.7		1.9
87-68-3	Hexachlorobutadiene	260.76	ND		4.7
110-54-3	Hexane	86.17	29		3.9
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.2
75-09-2	Methylene Chloride	84.93	ND		3.8
179601-23-1	m-Xylene & p-Xylene	106.17	17		1.9
95-47-6	o-Xylene	106.17	8.2		1.9
100-42-5	Styrene	104.15	ND		1.9
75-65-0	t-Butyl alcohol	74.12	6.0		5.3
127-18-4	Tetrachloroethene	165.83	17		3.0
108-88-3	Toluene	92.14	16		2.5
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.7
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		2.0
79-01-6	Trichloroethene	131.39	ND		1.2
75-69-4	Trichlorofluoromethane	137.37	16		2.5
75-01-4	Vinyl chloride	62.50	ND		0.56

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

NW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 | Lab Sample ID: 140-5720-2

Matrix: Air | Lab File ID: EI01P103.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) | Date Analyzed: 09/01/2016 13:38

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.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.40
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.40
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.40
75-34-3	1,1-Dichloroethane	98.96	ND		0.40
75-35-4	1,1-Dichloroethene	96.94	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.40
106-93-4	1,2-Dibromoethane	187.87	ND		0.40
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.40
107-06-2	1,2-Dichloroethane	98.96	ND		0.40
78-87-5	1,2-Dichloropropane	112.99	ND		0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	0.54		0.40
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.40
106-46-7	1,4-Dichlorobenzene	147.00	23		0.40
123-91-1	1,4-Dioxane	88.11	ND		1.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.0
78-93-3	2-Butanone	72.11	12		1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	8.9		1.0
71-43-2	Benzene	78.11	4.0		0.40
100-44-7	Benzyl chloride	126.58	ND		0.80
75-27-4	Bromodichloromethane	163.83	0.72		0.40
75-25-2	Bromoform	252.75	ND		0.40
74-83-9	Bromomethane	94.94	ND		0.40
56-23-5	Carbon tetrachloride	153.81	ND		0.20
108-90-7	Chlorobenzene	112.56	ND		0.40
75-00-3	Chloroethane	64.52	ND		0.40
67-66-3	Chloroform	119.38	3.5		0.40
74-87-3	Chloromethane	50.49	ND		1.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.40
110-82-7	Cyclohexane	84.16	ND		1.0

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 | Lab Sample ID: 140-5720-2

Matrix: Air | Lab File ID: EI01P103.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) | Date Analyzed: 09/01/2016 13:38

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.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.40
75-71-8	Dichlorodifluoromethane	120.91	0.45		0.40
64-17-5	Ethanol	46.07	ND		10
100-41-4	Ethylbenzene	106.17	1.4		0.40
87-68-3	Hexachlorobutadiene	260.76	ND		0.40
110-54-3	Hexane	86.17	6.2		1.0
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.80
75-09-2	Methylene Chloride	84.93	ND		1.0
179601-23-1	m-Xylene & p-Xylene	106.17	4.7		0.40
95-47-6	o-Xylene	106.17	2.2		0.40
100-42-5	Styrene	104.15	ND		0.40
75-65-0	t-Butyl alcohol	74.12	1.9		1.6
127-18-4	Tetrachloroethene	165.83	0.65		0.40
108-88-3	Toluene	92.14	6.1		0.60
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.40
79-01-6	Trichloroethene	131.39	ND		0.20
75-69-4	Trichlorofluoromethane	137.37	2.6		0.40
75-01-4	Vinyl chloride	62.50	ND		0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 | Lab Sample ID: 140-5720-2

Matrix: Air | Lab File ID: EI01P103.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) | Date Analyzed: 09/01/2016 13:38

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.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.2
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.1
75-34-3	1,1-Dichloroethane	98.96	ND		1.6
75-35-4	1,1-Dichloroethene	96.94	ND		1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0
95-63-6	1,2,4-Trimethylbenzene	120.20	11		2.0
106-93-4	1,2-Dibromoethane	187.87	ND		3.1
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4
107-06-2	1,2-Dichloroethane	98.96	ND		1.6
78-87-5	1,2-Dichloropropane	112.99	ND		1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.8
108-67-8	1,3,5-Trimethylbenzene	120.20	2.7		2.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4
106-46-7	1,4-Dichlorobenzene	147.00	140		2.4
123-91-1	1,4-Dioxane	88.11	ND		3.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.7
78-93-3	2-Butanone	72.11	36		4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	37		4.1
71-43-2	Benzene	78.11	13		1.3
100-44-7	Benzyl chloride	126.58	ND		4.1
75-27-4	Bromodichloromethane	163.83	4.8		2.7
75-25-2	Bromoform	252.75	ND		4.1
74-83-9	Bromomethane	94.94	ND		1.6
56-23-5	Carbon tetrachloride	153.81	ND		1.3
108-90-7	Chlorobenzene	112.56	ND		1.8
75-00-3	Chloroethane	64.52	ND		1.1
67-66-3	Chloroform	119.38	17		2.0
74-87-3	Chloromethane	50.49	ND		2.1
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8
110-82-7	Cyclohexane	84.16	ND		3.4

11/7/16

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

2

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-214 | Lab Sample ID: 140-5720-2

Matrix: Air | Lab File ID: EI01P103.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:57

Sample wt/vol: 100(mL) | Date Analyzed: 09/01/2016 13:38

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.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.4
75-71-8	Dichlorodifluoromethane	120.91	2.2		2.0
64-17-5	Ethanol	46.07	ND		19
100-41-4	Ethylbenzene	106.17	5.9		1.7
87-68-3	Hexachlorobutadiene	260.76	ND		4.3
110-54-3	Hexane	86.17	22		3.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.9
75-09-2	Methylene Chloride	84.93	ND		3.5
179601-23-1	m-Xylene & p-Xylene	106.17	20		1.7
95-47-6	o-Xylene	106.17	9.5		1.7
100-42-5	Styrene	104.15	ND		1.7
75-65-0	t-Butyl alcohol	74.12	5.7		4.9
127-18-4	Tetrachloroethene	165.83	4.4		2.7
108-88-3	Toluene	92.14	23		2.3
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8
79-01-6	Trichloroethene	131.39	ND		1.1
75-69-4	Trichlorofluoromethane	137.37	15		2.2
75-01-4	Vinyl chloride	62.50	ND		0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

3

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 | Lab Sample ID: 140-5720-3

Matrix: Air | Lab File ID: EI01P104.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 14:22

Soil Aliquot Vol: | Dilution Factor: 1.57

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	0.95		0.31
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.31
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.31
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.31
75-34-3	1,1-Dichloroethane	98.96	ND		0.31
75-35-4	1,1-Dichloroethene	96.94	ND		0.31
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.31
95-63-6	1,2,4-Trimethylbenzene	120.20	1.5		0.31
106-93-4	1,2-Dibromoethane	187.87	ND		0.31
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.31
107-06-2	1,2-Dichloroethane	98.96	ND		0.31
78-87-5	1,2-Dichloropropane	112.99	ND		0.31
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.31
108-67-8	1,3,5-Trimethylbenzene	120.20	0.36		0.31
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.31
106-46-7	1,4-Dichlorobenzene	147.00	17		0.31
123-91-1	1,4-Dioxane	88.11	ND		0.79
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.79
78-93-3	2-Butanone	72.11	15		1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.79
71-43-2	Benzene	78.11	0.42		0.31
100-44-7	Benzyl chloride	126.58	ND		0.63
75-27-4	Bromodichloromethane	163.83	ND		0.31
75-25-2	Bromoform	252.75	ND		0.31
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	ND		0.16
108-90-7	Chlorobenzene	112.56	ND		0.31
75-00-3	Chloroethane	64.52	ND		0.31
67-66-3	Chloroform	119.38	3.2		0.31
74-87-3	Chloromethane	50.49	ND		0.79
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.31
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.31
110-82-7	Cyclohexane	84.16	ND		0.79

MW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 | Lab Sample ID: 140-5720-3

Matrix: Air | Lab File ID: EI01P104.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 14:22

Soil Aliquot Vol: | Dilution Factor: 1.57

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.31
75-71-8	Dichlorodifluoromethane	120.91	0.38		0.31
64-17-5	Ethanol	46.07	ND		7.9
100-41-4	Ethylbenzene	106.17	0.59		0.31
87-68-3	Hexachlorobutadiene	260.76	ND		0.31
110-54-3	Hexane	86.17	1.2		0.79
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.63
75-09-2	Methylene Chloride	84.93	ND		0.79
179601-23-1	m-Xylene & p-Xylene	106.17	2.5		0.31
95-47-6	o-Xylene	106.17	1.2		0.31
100-42-5	Styrene	104.15	ND		0.31
75-65-0	t-Butyl alcohol	74.12	2.4		1.3
127-18-4	Tetrachloroethene	165.83	3.1		0.31
108-88-3	Toluene	92.14	2.1		0.47
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.31
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.31
79-01-6	Trichloroethene	131.39	ND		0.16
75-69-4	Trichlorofluoromethane	137.37	0.50		0.31
75-01-4	Vinyl chloride	62.50	ND		0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

MW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

3

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 | Lab Sample ID: 140-5720-3

Matrix: Air | Lab File ID: EI01P104.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 14:22

Soil Aliquot Vol: | Dilution Factor: 1.57

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	5.2		1.7
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.2
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.7
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		2.4
75-34-3	1,1-Dichloroethane	98.96	ND		1.3
75-35-4	1,1-Dichloroethene	96.94	ND		1.2
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.3
95-63-6	1,2,4-Trimethylbenzene	120.20	7.5		1.5
106-93-4	1,2-Dibromoethane	187.87	ND		2.4
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.9
107-06-2	1,2-Dichloroethane	98.96	ND		1.3
78-87-5	1,2-Dichloropropane	112.99	ND		1.5
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.2
108-67-8	1,3,5-Trimethylbenzene	120.20	1.7		1.5
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.9
106-46-7	1,4-Dichlorobenzene	147.00	100		1.9
123-91-1	1,4-Dioxane	88.11	ND		2.8
540-84-1	2,2,4-Trimethylpentane	114.23	ND		3.7
78-93-3	2-Butanone	72.11	44		3.7
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		3.2
71-43-2	Benzene	78.11	1.4		1.0
100-44-7	Benzyl chloride	126.58	ND		3.3
75-27-4	Bromodichloromethane	163.83	ND		2.1
75-25-2	Bromoform	252.75	ND		3.2
74-83-9	Bromomethane	94.94	ND		1.2
56-23-5	Carbon tetrachloride	153.81	ND		0.99
108-90-7	Chlorobenzene	112.56	ND		1.4
75-00-3	Chloroethane	64.52	ND		0.83
67-66-3	Chloroform	119.38	16		1.5
74-87-3	Chloromethane	50.49	ND		1.6
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.2
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.4
110-82-7	Cyclohexane	84.16	ND		2.7

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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1
SDG No.:
Client Sample ID: SG-212 | Lab Sample ID: 140-5720-3
Matrix: Air | Lab File ID: EI01P104.D
Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57
Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 14:22
Soil Aliquot Vol: | Dilution Factor: 1.57
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		2.7
75-71-8	Dichlorodifluoromethane	120.91	1.9		1.6
64-17-5	Ethanol	46.07	ND		15
100-41-4	Ethylbenzene	106.17	2.6		1.4
87-68-3	Hexachlorobutadiene	260.76	ND		3.3
110-54-3	Hexane	86.17	4.2		2.8
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.3
75-09-2	Methylene Chloride	84.93	ND		2.7
179601-23-1	m-Xylene & p-Xylene	106.17	11		1.4
95-47-6	o-Xylene	106.17	5.3		1.4
100-42-5	Styrene	104.15	ND		1.3
75-65-0	t-Butyl alcohol	74.12	7.4		3.8
127-18-4	Tetrachloroethene	165.83	21		2.1
108-88-3	Toluene	92.14	8.0		1.8
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.2
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.4
79-01-6	Trichloroethene	131.39	ND		0.84
75-69-4	Trichlorofluoromethane	137.37	2.8		1.8
75-01-4	Vinyl chloride	62.50	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B | Lab Sample ID: 140-5720-4

Matrix: Air | Lab File ID: EI01P105.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	0.97		0.28
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.28
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.28
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.28
75-34-3	1,1-Dichloroethane	98.96	ND		0.28
75-35-4	1,1-Dichloroethene	96.94	ND		0.28
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.28
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.28
106-93-4	1,2-Dibromoethane	187.87	ND		0.28
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.28
107-06-2	1,2-Dichloroethane	98.96	ND		0.28
78-87-5	1,2-Dichloropropane	112.99	ND		0.28
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.28
108-67-8	1,3,5-Trimethylbenzene	120.20	0.38		0.28
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.28
106-46-7	1,4-Dichlorobenzene	147.00	19		0.28
123-91-1	1,4-Dioxane	88.11	ND		0.71
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.71
78-93-3	2-Butanone	72.11	16		1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.71
71-43-2	Benzene	78.11	0.43		0.28
100-44-7	Benzyl chloride	126.58	ND		0.57
75-27-4	Bromodichloromethane	163.83	0.28		0.28
75-25-2	Bromoform	252.75	ND		0.28
74-83-9	Bromomethane	94.94	ND		0.28
56-23-5	Carbon tetrachloride	153.81	ND		0.14
108-90-7	Chlorobenzene	112.56	ND		0.28
75-00-3	Chloroethane	64.52	ND		0.28
67-66-3	Chloroform	119.38	3.2		0.28
74-87-3	Chloromethane	50.49	ND		0.71
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.28
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.28
110-82-7	Cyclohexane	84.16	ND		0.71

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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B | Lab Sample ID: 140-5720-4

Matrix: Air | Lab File ID: EI01P105.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.28
75-71-8	Dichlorodifluoromethane	120.91	0.36		0.28
64-17-5	Ethanol	46.07	12		7.1
100-41-4	Ethylbenzene	106.17	0.65		0.28
87-68-3	Hexachlorobutadiene	260.76	ND		0.28
110-54-3	Hexane	86.17	1.3		0.71
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.57
75-09-2	Methylene Chloride	84.93	1.1		0.71
179601-23-1	m-Xylene & p-Xylene	106.17	2.7		0.28
95-47-6	o-Xylene	106.17	1.3		0.28
100-42-5	Styrene	104.15	ND		0.28
75-65-0	t-Butyl alcohol	74.12	2.1		1.1
127-18-4	Tetrachloroethene	165.83	3.2		0.28
108-88-3	Toluene	92.14	2.3		0.43
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.28
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.28
79-01-6	Trichloroethene	131.39	ND		0.14
75-69-4	Trichlorofluoromethane	137.37	0.56		0.28
75-01-4	Vinyl chloride	62.50	ND		0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B | Lab Sample ID: 140-5720-4

Matrix: Air | Lab File ID: EI01P105.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	5.3		1.5
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.9
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.5
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		2.2
75-34-3	1,1-Dichloroethane	98.96	ND		1.1
75-35-4	1,1-Dichloroethene	96.94	ND		1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.1
95-63-6	1,2,4-Trimethylbenzene	120.20	8.2		1.4
106-93-4	1,2-Dibromoethane	187.87	ND		2.2
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.7
107-06-2	1,2-Dichloroethane	98.96	ND		1.1
78-87-5	1,2-Dichloropropane	112.99	ND		1.3
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	1.9		1.4
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.7
106-46-7	1,4-Dichlorobenzene	147.00	110		1.7
123-91-1	1,4-Dioxane	88.11	ND		2.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		3.3
78-93-3	2-Butanone	72.11	48		3.4
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.9
71-43-2	Benzene	78.11	1.4		0.91
100-44-7	Benzyl chloride	126.58	ND		2.9
75-27-4	Bromodichloromethane	163.83	1.8		1.9
75-25-2	Bromoform	252.75	ND		2.9
74-83-9	Bromomethane	94.94	ND		1.1
56-23-5	Carbon tetrachloride	153.81	ND		0.89
108-90-7	Chlorobenzene	112.56	ND		1.3
75-00-3	Chloroethane	64.52	ND		0.75
67-66-3	Chloroform	119.38	16		1.4
74-87-3	Chloromethane	50.49	ND		1.5
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.1
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.3
110-82-7	Cyclohexane	84.16	ND		2.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-212 B | Lab Sample ID: 140-5720-4

Matrix: Air | Lab File ID: EI01P105.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:57

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:06

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		2.4
75-71-8	Dichlorodifluoromethane	120.91	1.8		1.4
64-17-5	Ethanol	46.07	22		13
100-41-4	Ethylbenzene	106.17	2.8		1.2
87-68-3	Hexachlorobutadiene	260.76	ND		3.0
110-54-3	Hexane	86.17	4.6		2.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.0
75-09-2	Methylene Chloride	84.93	3.8		2.5
179601-23-1	m-Xylene & p-Xylene	106.17	12		1.2
95-47-6	o-Xylene	106.17	5.6		1.2
100-42-5	Styrene	104.15	ND		1.2
75-65-0	t-Butyl alcohol	74.12	6.4		3.4
127-18-4	Tetrachloroethene	165.83	22		1.9
108-88-3	Toluene	92.14	8.6		1.6
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.1
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.3
79-01-6	Trichloroethene	131.39	ND		0.76
75-69-4	Trichlorofluoromethane	137.37	3.1		1.6
75-01-4	Vinyl chloride	62.50	ND		0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

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FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

5

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-211 | Lab Sample ID: 140-5720-5

Matrix: Air | Lab File ID: EI01P106.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:55

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:51

Soil Aliquot Vol: | Dilution Factor: 1.61

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	1.3		0.32
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.32
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.32
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.9		0.32
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.32
95-63-6	1,2,4-Trimethylbenzene	120.20	2.2		0.32
106-93-4	1,2-Dibromoethane	187.87	ND		0.32
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.32
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.32
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.32
108-67-8	1,3,5-Trimethylbenzene	120.20	0.61		0.32
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.32
106-46-7	1,4-Dichlorobenzene	147.00	16		0.32
123-91-1	1,4-Dioxane	88.11	ND		0.81
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.81
78-93-3	2-Butanone	72.11	27		1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.81
71-43-2	Benzene	78.11	2.9		0.32
100-44-7	Benzyl chloride	126.58	ND		0.64
75-27-4	Bromodichloromethane	163.83	0.46		0.32
75-25-2	Bromoform	252.75	ND		0.32
74-83-9	Bromomethane	94.94	ND		0.32
56-23-5	Carbon tetrachloride	153.81	ND		0.16
108-90-7	Chlorobenzene	112.56	ND		0.32
75-00-3	Chloroethane	64.52	0.33		0.32
67-66-3	Chloroform	119.38	6.8		0.32
74-87-3	Chloromethane	50.49	1.1		0.81
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.32
110-82-7	Cyclohexane	84.16	ND		0.81

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

5

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-211 | Lab Sample ID: 140-5720-5

Matrix: Air | Lab File ID: EI01P106.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:55

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:51

Soil Aliquot Vol: | Dilution Factor: 1.61

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.32
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.32
64-17-5	Ethanol	46.07	ND		8.1
100-41-4	Ethylbenzene	106.17	1.2		0.32
87-68-3	Hexachlorobutadiene	260.76	ND		0.32
110-54-3	Hexane	86.17	4.8		0.81
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.64
75-09-2	Methylene Chloride	84.93	1.2		0.81
179601-23-1	m-Xylene & p-Xylene	106.17	4.7		0.32
95-47-6	o-Xylene	106.17	2.1		0.32
100-42-5	Styrene	104.15	0.41		0.32
75-65-0	t-Butyl alcohol	74.12	4.0		1.3
127-18-4	Tetrachloroethene	165.83	2.7		0.32
108-88-3	Toluene	92.14	7.3		0.48
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.32
79-01-6	Trichloroethene	131.39	ND		0.16
75-69-4	Trichlorofluoromethane	137.37	0.53		0.32
75-01-4	Vinyl chloride	62.50	ND		0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

5

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-211 | Lab Sample ID: 140-5720-5

Matrix: Air | Lab File ID: EI01P106.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:55

Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:51

Soil Aliquot Vol: | Dilution Factor: 1.61

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	7.1		1.8
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.2
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.8
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	22		2.5
75-34-3	1,1-Dichloroethane	98.96	ND		1.3
75-35-4	1,1-Dichloroethene	96.94	ND		1.3
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.4
95-63-6	1,2,4-Trimethylbenzene	120.20	11		1.6
106-93-4	1,2-Dibromoethane	187.87	ND		2.5
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.9
107-06-2	1,2-Dichloroethane	98.96	ND		1.3
78-87-5	1,2-Dichloropropane	112.99	ND		1.5
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.3
108-67-8	1,3,5-Trimethylbenzene	120.20	3.0		1.6
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.9
106-46-7	1,4-Dichlorobenzene	147.00	97		1.9
123-91-1	1,4-Dioxane	88.11	ND		2.9
540-84-1	2,2,4-Trimethylpentane	114.23	ND		3.8
78-93-3	2-Butanone	72.11	80		3.8
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		3.3
71-43-2	Benzene	78.11	9.2		1.0
100-44-7	Benzyl chloride	126.58	ND		3.3
75-27-4	Bromodichloromethane	163.83	3.1		2.2
75-25-2	Bromoform	252.75	ND		3.3
74-83-9	Bromomethane	94.94	ND		1.3
56-23-5	Carbon tetrachloride	153.81	ND		1.0
108-90-7	Chlorobenzene	112.56	ND		1.5
75-00-3	Chloroethane	64.52	0.88		0.85
67-66-3	Chloroform	119.38	33		1.6
74-87-3	Chloromethane	50.49	2.3		1.7
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.3
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.5
110-82-7	Cyclohexane	84.16	ND		2.8

NW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1
SDG No.:
Client Sample ID: SG-211 | Lab Sample ID: 140-5720-5
Matrix: Air | Lab File ID: EI01P106.D
Analysis Method: TO 15 LL | Date Collected: 08/24/2016 12:55
Sample wt/vol: 200(mL) | Date Analyzed: 09/01/2016 15:51
Soil Aliquot Vol: | Dilution Factor: 1.61
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		2.7
75-71-8	Dichlorodifluoromethane	120.91	2.6		1.6
64-17-5	Ethanol	46.07	ND		15
100-41-4	Ethylbenzene	106.17	5.3		1.4
87-68-3	Hexachlorobutadiene	260.76	ND		3.4
110-54-3	Hexane	86.17	17		2.8
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.3
75-09-2	Methylene Chloride	84.93	4.2		2.8
179601-23-1	m-Xylene & p-Xylene	106.17	21		1.4
95-47-6	o-Xylene	106.17	9.3		1.4
100-42-5	Styrene	104.15	1.8		1.4
75-65-0	t-Butyl alcohol	74.12	12		3.9
127-18-4	Tetrachloroethene	165.83	18		2.2
108-88-3	Toluene	92.14	28		1.8
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.5
79-01-6	Trichloroethene	131.39	ND		0.87
75-69-4	Trichlorofluoromethane	137.37	2.9		1.8
75-01-4	Vinyl chloride	62.50	ND		0.41

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

6

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-213 | Lab Sample ID: 140-5720-6

Matrix: Air | Lab File ID: EI01P107R.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:15

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 23:25

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	1.4		0.19
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.19
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.19
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	0.42		0.19
75-34-3	1,1-Dichloroethane	98.96	ND		0.19
75-35-4	1,1-Dichloroethene	96.94	ND		0.19
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.19
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.19
106-93-4	1,2-Dibromoethane	187.87	ND		0.19
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.19
107-06-2	1,2-Dichloroethane	98.96	ND		0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.19
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.19
108-67-8	1,3,5-Trimethylbenzene	120.20	0.58		0.19
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.19
106-46-7	1,4-Dichlorobenzene	147.00	2.8		0.19
123-91-1	1,4-Dioxane	88.11	ND		0.47
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.47
78-93-3	2-Butanone	72.11	9.2		0.76
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.0		0.47
71-43-2	Benzene	78.11	3.9		0.19
100-44-7	Benzyl chloride	126.58	ND		0.38
75-27-4	Bromodichloromethane	163.83	ND		0.19
75-25-2	Bromoform	252.75	ND		0.19
74-83-9	Bromomethane	94.94	ND		0.19
56-23-5	Carbon tetrachloride	153.81	ND		0.095
108-90-7	Chlorobenzene	112.56	ND		0.19
75-00-3	Chloroethane	64.52	ND		0.19
67-66-3	Chloroform	119.38	1.0		0.19
74-87-3	Chloromethane	50.49	ND		0.47
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.19
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.19
110-82-7	Cyclohexane	84.16	0.48		0.47

MW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

6

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-213 | Lab Sample ID: 140-5720-6

Matrix: Air | Lab File ID: EI01P107R.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:15

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 23:25

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.19
75-71-8	Dichlorodifluoromethane	120.91	0.19		0.19
64-17-5	Ethanol	46.07	ND		4.7
100-41-4	Ethylbenzene	106.17	1.3		0.19
87-68-3	Hexachlorobutadiene	260.76	ND		0.19
110-54-3	Hexane	86.17	1.1		0.47
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.38
75-09-2	Methylene Chloride	84.93	0.60		0.47
179601-23-1	m-Xylene & p-Xylene	106.17	5.3		0.19
95-47-6	o-Xylene	106.17	2.2		0.19
100-42-5	Styrene	104.15	0.44		0.19
75-65-0	t-Butyl alcohol	74.12	0.83		0.76
127-18-4	Tetrachloroethene	165.83	7.6		0.19
108-88-3	Toluene	92.14	5.2		0.28
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.19
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.19
79-01-6	Trichloroethene	131.39	ND		0.095
75-69-4	Trichlorofluoromethane	137.37	1.4		0.19
75-01-4	Vinyl chloride	62.50	ND		0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

MW 11/9/16

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

6

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-213 | Lab Sample ID: 140-5720-6

Matrix: Air | Lab File ID: EI01P107R.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:15

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 23:25

Soil Aliquot Vol: | Dilution Factor: 1.42

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	7.7		1.0
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.3
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.0
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	3.2		1.5
75-34-3	1,1-Dichloroethane	98.96	ND		0.77
75-35-4	1,1-Dichloroethene	96.94	ND		0.75
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.4
95-63-6	1,2,4-Trimethylbenzene	120.20	10		0.93
106-93-4	1,2-Dibromoethane	187.87	ND		1.5
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.1
107-06-2	1,2-Dichloroethane	98.96	ND		0.77
78-87-5	1,2-Dichloropropane	112.99	ND		0.87
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		1.3
108-67-8	1,3,5-Trimethylbenzene	120.20	2.8		0.93
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.1
106-46-7	1,4-Dichlorobenzene	147.00	17		1.1
123-91-1	1,4-Dioxane	88.11	ND		1.7
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.2
78-93-3	2-Butanone	72.11	27		2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	4.3		1.9
71-43-2	Benzene	78.11	12		0.60
100-44-7	Benzyl chloride	126.58	ND		2.0
75-27-4	Bromodichloromethane	163.83	ND		1.3
75-25-2	Bromoform	252.75	ND		2.0
74-83-9	Bromomethane	94.94	ND		0.74
56-23-5	Carbon tetrachloride	153.81	ND		0.60
108-90-7	Chlorobenzene	112.56	ND		0.87
75-00-3	Chloroethane	64.52	ND		0.50
67-66-3	Chloroform	119.38	4.9		0.92
74-87-3	Chloromethane	50.49	ND		0.98
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.75
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.86
110-82-7	Cyclohexane	84.16	1.7		1.6

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1
SDG No.:
Client Sample ID: SG-213 | Lab Sample ID: 140-5720-6
Matrix: Air | Lab File ID: EI01P107R.D
Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:15
Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 23:25
Soil Aliquot Vol: | Dilution Factor: 1.42
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		1.6
75-71-8	Dichlorodifluoromethane	120.91	0.96		0.94
64-17-5	Ethanol	46.07	ND		8.9
100-41-4	Ethylbenzene	106.17	5.6		0.82
87-68-3	Hexachlorobutadiene	260.76	ND		2.0
110-54-3	Hexane	86.17	4.0		1.7
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.4
75-09-2	Methylene Chloride	84.93	2.1		1.6
179601-23-1	m-Xylene & p-Xylene	106.17	23		0.82
95-47-6	o-Xylene	106.17	9.6		0.82
100-42-5	Styrene	104.15	1.9		0.81
75-65-0	t-Butyl alcohol	74.12	2.5		2.3
127-18-4	Tetrachloroethene	165.83	51		1.3
108-88-3	Toluene	92.14	20		1.1
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.75
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.86
79-01-6	Trichloroethene	131.39	ND		0.51
75-69-4	Trichlorofluoromethane	137.37	8.1		1.1
75-01-4	Vinyl chloride	62.50	ND		0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		60-140

11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: AA-1 | Lab Sample ID: 140-5720-7

Matrix: Air | Lab File ID: EI01P108.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:14

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 17:24

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.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	0.22		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.42		0.20
78-93-3	2-Butanone	72.11	1.0		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.1		0.20
71-43-2	Benzene	78.11	0.24		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.070		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	ND		0.080
74-87-3	Chloromethane	50.49	0.96		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

LW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1
SDG No.:
Client Sample ID: AA-1 | Lab Sample ID: 140-5720-7
Matrix: Air | Lab File ID: EI01P108.D
Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:14
Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 17:24
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.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.50		0.080
64-17-5	Ethanol	46.07	49		2.0
100-41-4	Ethylbenzene	106.17	0.17		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.57		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.90		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.54		0.080
95-47-6	o-Xylene	106.17	0.21		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	ND		0.080
108-88-3	Toluene	92.14	0.86		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.32		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: AA-1 | Lab Sample ID: 140-5720-7

Matrix: Air | Lab File ID: EI01P108.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:14

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 17:24

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.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	1.1		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	2.0		0.93
78-93-3	2-Butanone	72.11	3.0		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	8.8		0.82
71-43-2	Benzene	78.11	0.75		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.44		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	2.0		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

7

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: AA-1 | Lab Sample ID: 140-5720-7

Matrix: Air | Lab File ID: EI01P108.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:14

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 17:24

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.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.5		0.40
64-17-5	Ethanol	46.07	92		3.8
100-41-4	Ethylbenzene	106.17	0.72		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	2.0		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	3.1		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	2.4		0.35
95-47-6	o-Xylene	106.17	0.92		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	3.2		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.8		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

8

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 | Lab Sample ID: 140-5720-8

Matrix: Air | Lab File ID: EI01P109.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: | Dilution Factor: 14.16

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.1
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		1.1
75-34-3	1,1-Dichloroethane	98.96	ND		1.1
75-35-4	1,1-Dichloroethene	96.94	ND		1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.1
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		1.1
106-93-4	1,2-Dibromoethane	187.87	ND		1.1
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.1
107-06-2	1,2-Dichloroethane	98.96	ND		1.1
78-87-5	1,2-Dichloropropane	112.99	ND		1.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		1.1
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		1.1
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.1
106-46-7	1,4-Dichlorobenzene	147.00	4.7		1.1
123-91-1	1,4-Dioxane	88.11	ND		2.8
540-84-1	2,2,4-Trimethylpentane	114.23	13		2.8
78-93-3	2-Butanone	72.11	10		4.5
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.8
71-43-2	Benzene	78.11	17		1.1
100-44-7	Benzyl chloride	126.58	ND		2.3
75-27-4	Bromodichloromethane	163.83	ND		1.1
75-25-2	Bromoform	252.75	ND		1.1
74-83-9	Bromomethane	94.94	ND		1.1
56-23-5	Carbon tetrachloride	153.81	ND		0.57
108-90-7	Chlorobenzene	112.56	ND		1.1
75-00-3	Chloroethane	64.52	ND		1.1
67-66-3	Chloroform	119.38	ND		1.1
74-87-3	Chloromethane	50.49	ND		2.8
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.1
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.1
110-82-7	Cyclohexane	84.16	13		2.8

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

8

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 | Lab Sample ID: 140-5720-8

Matrix: Air | Lab File ID: EI01P109.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: | Dilution Factor: 14.16

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		1.1
75-71-8	Dichlorodifluoromethane	120.91	ND		1.1
64-17-5	Ethanol	46.07	ND		28
100-41-4	Ethylbenzene	106.17	1.1		1.1
87-68-3	Hexachlorobutadiene	260.76	ND		1.1
110-54-3	Hexane	86.17	15		2.8
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.3
75-09-2	Methylene Chloride	84.93	ND		2.8
179601-23-1	m-Xylene & p-Xylene	106.17	4.3		1.1
95-47-6	o-Xylene	106.17	1.8		1.1
100-42-5	Styrene	104.15	ND		1.1
75-65-0	t-Butyl alcohol	74.12	ND		4.5
127-18-4	Tetrachloroethene	165.83	ND		1.1
108-88-3	Toluene	92.14	5.0		1.7
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.1
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.1
79-01-6	Trichloroethene	131.39	ND		0.57
75-69-4	Trichlorofluoromethane	137.37	ND		1.1
75-01-4	Vinyl chloride	62.50	ND		0.57

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

8

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 | Lab Sample ID: 140-5720-8

Matrix: Air | Lab File ID: EI01P109.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: | Dilution Factor: 14.16

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		6.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		7.8
79-00-5	1,1,2-Trichloroethane	133.41	ND		6.2
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		8.7
75-34-3	1,1-Dichloroethane	98.96	ND		4.6
75-35-4	1,1-Dichloroethene	96.94	ND		4.5
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		8.4
95-63-6	1,2,4-Trimethylbenzene	120.20	8.2		5.6
106-93-4	1,2-Dibromoethane	187.87	ND		8.7
95-50-1	1,2-Dichlorobenzene	147.00	ND		6.8
107-06-2	1,2-Dichloroethane	98.96	ND		4.6
78-87-5	1,2-Dichloropropane	112.99	ND		5.2
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		7.9
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		5.6
541-73-1	1,3-Dichlorobenzene	147.00	ND		6.8
106-46-7	1,4-Dichlorobenzene	147.00	28		6.8
123-91-1	1,4-Dioxane	88.11	ND		10
540-84-1	2,2,4-Trimethylpentane	114.23	63		13
78-93-3	2-Butanone	72.11	31		13
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		12
71-43-2	Benzene	78.11	53		3.6
100-44-7	Benzyl chloride	126.58	ND		12
75-27-4	Bromodichloromethane	163.83	ND		7.6
75-25-2	Bromoform	252.75	ND		12
74-83-9	Bromomethane	94.94	ND		4.4
56-23-5	Carbon tetrachloride	153.81	ND		3.6
108-90-7	Chlorobenzene	112.56	ND		5.2
75-00-3	Chloroethane	64.52	ND		3.0
67-66-3	Chloroform	119.38	ND		5.5
74-87-3	Chloromethane	50.49	ND		5.8
156-59-2	cis-1,2-Dichloroethene	96.94	ND		4.5
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		5.1
110-82-7	Cyclohexane	84.16	46		9.7

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

8

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-217 | Lab Sample ID: 140-5720-8

Matrix: Air | Lab File ID: EI01P109.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 13:25

Sample wt/vol: 500(mL) | Date Analyzed: 09/01/2016 18:12

Soil Aliquot Vol: | Dilution Factor: 14.16

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		9.7
75-71-8	Dichlorodifluoromethane	120.91	ND		5.6
64-17-5	Ethanol	46.07	ND		53
100-41-4	Ethylbenzene	106.17	4.9		4.9
87-68-3	Hexachlorobutadiene	260.76	ND		12
110-54-3	Hexane	86.17	54		10
1634-04-4	Methyl tert-butyl ether	88.15	ND		8.2
75-09-2	Methylene Chloride	84.93	ND		9.8
179601-23-1	m-Xylene & p-Xylene	106.17	19		4.9
95-47-6	o-Xylene	106.17	7.8		4.9
100-42-5	Styrene	104.15	ND		4.8
75-65-0	t-Butyl alcohol	74.12	ND		14
127-18-4	Tetrachloroethene	165.83	ND		7.7
108-88-3	Toluene	92.14	19		6.4
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4.5
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		5.1
79-01-6	Trichloroethene	131.39	ND		3.0
75-69-4	Trichlorofluoromethane	137.37	ND		6.4
75-01-4	Vinyl chloride	62.50	ND		1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

9

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 | Lab Sample ID: 140-5720-9

Matrix: Air | Lab File ID: EI01P110.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) | Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: | Dilution Factor: 1.46

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	3.5		0.80
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.80
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.80
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	1.4		0.80
75-34-3	1,1-Dichloroethane	98.96	1.2		0.80
75-35-4	1,1-Dichloroethene	96.94	ND		0.80
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.80
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		0.80
106-93-4	1,2-Dibromoethane	187.87	ND		0.80
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.80
107-06-2	1,2-Dichloroethane	98.96	ND		0.80
78-87-5	1,2-Dichloropropane	112.99	ND		0.80
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.80
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.80
106-46-7	1,4-Dichlorobenzene	147.00	15		0.80
123-91-1	1,4-Dioxane	88.11	ND		2.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.0
78-93-3	2-Butanone	72.11	ND		3.2
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0
71-43-2	Benzene	78.11	2.1		0.80
100-44-7	Benzyl chloride	126.58	ND		1.6
75-27-4	Bromodichloromethane	163.83	5.7		0.80
75-25-2	Bromoform	252.75	ND		0.80
74-83-9	Bromomethane	94.94	ND		0.80
56-23-5	Carbon tetrachloride	153.81	ND		0.40
108-90-7	Chlorobenzene	112.56	ND		0.80
75-00-3	Chloroethane	64.52	ND		0.80
67-66-3	Chloroform	119.38	30		0.80
74-87-3	Chloromethane	50.49	ND		2.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.80
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.80
110-82-7	Cyclohexane	84.16	ND		2.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

9

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 | Lab Sample ID: 140-5720-9

Matrix: Air | Lab File ID: EI01P110.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) | Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: | Dilution Factor: 1.46

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	1.6		0.80
75-71-8	Dichlorodifluoromethane	120.91	0.82		0.80
64-17-5	Ethanol	46.07	ND		20
100-41-4	Ethylbenzene	106.17	1.1		0.80
87-68-3	Hexachlorobutadiene	260.76	ND		0.80
110-54-3	Hexane	86.17	4.5		2.0
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.6
75-09-2	Methylene Chloride	84.93	ND		2.0
179601-23-1	m-Xylene & p-Xylene	106.17	4.6		0.80
95-47-6	o-Xylene	106.17	1.8		0.80
100-42-5	Styrene	104.15	ND		0.80
75-65-0	t-Butyl alcohol	74.12	ND		3.2
127-18-4	Tetrachloroethene	165.83	34		0.80
108-88-3	Toluene	92.14	5.0		1.2
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.80
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.80
79-01-6	Trichloroethene	131.39	5.7		0.40
75-69-4	Trichlorofluoromethane	137.37	ND		0.80
75-01-4	Vinyl chloride	62.50	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

9

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 | Lab Sample ID: 140-5720-9

Matrix: Air | Lab File ID: EI01P110.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) | Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: | Dilution Factor: 1.46

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	19		4.4
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		5.5
79-00-5	1,1,2-Trichloroethane	133.41	ND		4.4
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	11		6.1
75-34-3	1,1-Dichloroethane	98.96	4.7		3.2
75-35-4	1,1-Dichloroethene	96.94	ND		3.2
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		5.9
95-63-6	1,2,4-Trimethylbenzene	120.20	8.5		3.9
106-93-4	1,2-Dibromoethane	187.87	ND		6.1
95-50-1	1,2-Dichlorobenzene	147.00	ND		4.8
107-06-2	1,2-Dichloroethane	98.96	ND		3.2
78-87-5	1,2-Dichloropropane	112.99	ND		3.7
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		5.6
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.9
541-73-1	1,3-Dichlorobenzene	147.00	ND		4.8
106-46-7	1,4-Dichlorobenzene	147.00	90		4.8
123-91-1	1,4-Dioxane	88.11	ND		7.2
540-84-1	2,2,4-Trimethylpentane	114.23	ND		9.3
78-93-3	2-Butanone	72.11	ND		9.4
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		8.2
71-43-2	Benzene	78.11	6.8		2.6
100-44-7	Benzyl chloride	126.58	ND		8.3
75-27-4	Bromodichloromethane	163.83	38		5.4
75-25-2	Bromoform	252.75	ND		8.3
74-83-9	Bromomethane	94.94	ND		3.1
56-23-5	Carbon tetrachloride	153.81	ND		2.5
108-90-7	Chlorobenzene	112.56	ND		3.7
75-00-3	Chloroethane	64.52	ND		2.1
67-66-3	Chloroform	119.38	140		3.9
74-87-3	Chloromethane	50.49	ND		4.1
156-59-2	cis-1,2-Dichloroethene	96.94	ND		3.2
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		3.6
110-82-7	Cyclohexane	84.16	ND		6.9

11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

9

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-218 | Lab Sample ID: 140-5720-9

Matrix: Air | Lab File ID: EI01P110.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:10

Sample wt/vol: 73(mL) | Date Analyzed: 09/01/2016 18:56

Soil Aliquot Vol: | Dilution Factor: 1.46

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	14		6.8
75-71-8	Dichlorodifluoromethane	120.91	4.1		4.0
64-17-5	Ethanol	46.07	ND		38
100-41-4	Ethylbenzene	106.17	4.9		3.5
87-68-3	Hexachlorobutadiene	260.76	ND		8.5
110-54-3	Hexane	86.17	16		7.0
1634-04-4	Methyl tert-butyl ether	88.15	ND		5.8
75-09-2	Methylene Chloride	84.93	ND		6.9
179601-23-1	m-Xylene & p-Xylene	106.17	20		3.5
95-47-6	o-Xylene	106.17	7.7		3.5
100-42-5	Styrene	104.15	ND		3.4
75-65-0	t-Butyl alcohol	74.12	ND		9.7
127-18-4	Tetrachloroethene	165.83	230		5.4
108-88-3	Toluene	92.14	19		4.5
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.2
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		3.6
79-01-6	Trichloroethene	131.39	31		2.1
75-69-4	Trichlorofluoromethane	137.37	ND		4.5
75-01-4	Vinyl chloride	62.50	ND		1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

10

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 | Lab Sample ID: 140-5720-10

Matrix: Air | Lab File ID: EI01P111.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: | Dilution Factor: 4.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	6.5		0.62
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.62
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.62
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.62
75-34-3	1,1-Dichloroethane	98.96	0.99		0.62
75-35-4	1,1-Dichloroethene	96.94	ND		0.62
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.62
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.62
106-93-4	1,2-Dibromoethane	187.87	ND		0.62
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.62
107-06-2	1,2-Dichloroethane	98.96	ND		0.62
78-87-5	1,2-Dichloropropane	112.99	ND		0.62
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.62
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.62
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.62
106-46-7	1,4-Dichlorobenzene	147.00	18		0.62
123-91-1	1,4-Dioxane	88.11	ND		1.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.6
78-93-3	2-Butanone	72.11	ND		2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		1.6
71-43-2	Benzene	78.11	1.7		0.62
100-44-7	Benzyl chloride	126.58	ND		1.2
75-27-4	Bromodichloromethane	163.83	5.9		0.62
75-25-2	Bromoform	252.75	ND		0.62
74-83-9	Bromomethane	94.94	ND		0.62
56-23-5	Carbon tetrachloride	153.81	ND		0.31
108-90-7	Chlorobenzene	112.56	ND		0.62
75-00-3	Chloroethane	64.52	ND		0.62
67-66-3	Chloroform	119.38	30		0.62
74-87-3	Chloromethane	50.49	ND		1.6
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.62
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.62
110-82-7	Cyclohexane	84.16	ND		1.6

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

10

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 | Lab Sample ID: 140-5720-10

Matrix: Air | Lab File ID: EI01P111.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: | Dilution Factor: 4.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	2.0		0.62
75-71-8	Dichlorodifluoromethane	120.91	ND		0.62
64-17-5	Ethanol	46.07	ND		16
100-41-4	Ethylbenzene	106.17	1.3		0.62
87-68-3	Hexachlorobutadiene	260.76	ND		0.62
110-54-3	Hexane	86.17	3.0		1.6
1634-04-4	Methyl tert-butyl ether	88.15	ND		1.2
75-09-2	Methylene Chloride	84.93	ND		1.6
179601-23-1	m-Xylene & p-Xylene	106.17	5.2		0.62
95-47-6	o-Xylene	106.17	2.0		0.62
100-42-5	Styrene	104.15	ND		0.62
75-65-0	t-Butyl alcohol	74.12	ND		2.5
127-18-4	Tetrachloroethene	165.83	65		0.62
108-88-3	Toluene	92.14	5.4		0.93
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.62
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.62
79-01-6	Trichloroethene	131.39	12		0.31
75-69-4	Trichlorofluoromethane	137.37	ND		0.62
75-01-4	Vinyl chloride	62.50	ND		0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

10

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 | Lab Sample ID: 140-5720-10

Matrix: Air | Lab File ID: EI01P111.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: | Dilution Factor: 4.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	35		3.4
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		4.3
79-00-5	1,1,2-Trichloroethane	133.41	ND		3.4
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		4.8
75-34-3	1,1-Dichloroethane	98.96	4.0		2.5
75-35-4	1,1-Dichloroethene	96.94	ND		2.5
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		4.6
95-63-6	1,2,4-Trimethylbenzene	120.20	10		3.0
106-93-4	1,2-Dibromoethane	187.87	ND		4.8
95-50-1	1,2-Dichlorobenzene	147.00	ND		3.7
107-06-2	1,2-Dichloroethane	98.96	ND		2.5
78-87-5	1,2-Dichloropropane	112.99	ND		2.9
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		4.3
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		3.7
106-46-7	1,4-Dichlorobenzene	147.00	110		3.7
123-91-1	1,4-Dioxane	88.11	ND		5.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		7.2
78-93-3	2-Butanone	72.11	ND		7.3
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		6.3
71-43-2	Benzene	78.11	5.5		2.0
100-44-7	Benzyl chloride	126.58	ND		6.4
75-27-4	Bromodichloromethane	163.83	39		4.2
75-25-2	Bromoform	252.75	ND		6.4
74-83-9	Bromomethane	94.94	ND		2.4
56-23-5	Carbon tetrachloride	153.81	ND		2.0
108-90-7	Chlorobenzene	112.56	ND		2.9
75-00-3	Chloroethane	64.52	ND		1.6
67-66-3	Chloroform	119.38	150		3.0
74-87-3	Chloromethane	50.49	ND		3.2
156-59-2	cis-1,2-Dichloroethene	96.94	ND		2.5
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		2.8
110-82-7	Cyclohexane	84.16	ND		5.3

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

10

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-216 | Lab Sample ID: 140-5720-10

Matrix: Air | Lab File ID: EI01P111.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:13

Sample wt/vol: 300(mL) | Date Analyzed: 09/01/2016 19:43

Soil Aliquot Vol: | Dilution Factor: 4.65

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	17		5.3
75-71-8	Dichlorodifluoromethane	120.91	ND		3.1
64-17-5	Ethanol	46.07	ND		29
100-41-4	Ethylbenzene	106.17	5.6		2.7
87-68-3	Hexachlorobutadiene	260.76	ND		6.6
110-54-3	Hexane	86.17	11		5.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		4.5
75-09-2	Methylene Chloride	84.93	ND		5.4
179601-23-1	m-Xylene & p-Xylene	106.17	22		2.7
95-47-6	o-Xylene	106.17	8.8		2.7
100-42-5	Styrene	104.15	ND		2.6
75-65-0	t-Butyl alcohol	74.12	ND		7.5
127-18-4	Tetrachloroethene	165.83	440		4.2
108-88-3	Toluene	92.14	20		3.5
156-60-5	trans-1,2-Dichloroethene	96.94	ND		2.5
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		2.8
79-01-6	Trichloroethene	131.39	65		1.7
75-69-4	Trichlorofluoromethane	137.37	ND		3.5
75-01-4	Vinyl chloride	62.50	ND		0.79

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

11

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 | Lab Sample ID: 140-5720-11

Matrix: Air | Lab File ID: EI01P112.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: | Dilution Factor: 14.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		3.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		3.9
79-00-5	1,1,2-Trichloroethane	133.41	ND		3.9
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.9
75-34-3	1,1-Dichloroethane	98.96	ND		3.9
75-35-4	1,1-Dichloroethene	96.94	ND		3.9
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.9
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		3.9
106-93-4	1,2-Dibromoethane	187.87	ND		3.9
95-50-1	1,2-Dichlorobenzene	147.00	ND		3.9
107-06-2	1,2-Dichloroethane	98.96	ND		3.9
78-87-5	1,2-Dichloropropane	112.99	ND		3.9
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		3.9
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.9
541-73-1	1,3-Dichlorobenzene	147.00	ND		3.9
106-46-7	1,4-Dichlorobenzene	147.00	12		3.9
123-91-1	1,4-Dioxane	88.11	ND		9.6
540-84-1	2,2,4-Trimethylpentane	114.23	440		9.6
78-93-3	2-Butanone	72.11	ND		15
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		9.6
71-43-2	Benzene	78.11	ND		3.9
100-44-7	Benzyl chloride	126.58	ND		7.7
75-27-4	Bromodichloromethane	163.83	ND		3.9
75-25-2	Bromoform	252.75	ND		3.9
74-83-9	Bromomethane	94.94	ND		3.9
56-23-5	Carbon tetrachloride	153.81	ND		1.9
108-90-7	Chlorobenzene	112.56	ND		3.9
75-00-3	Chloroethane	64.52	ND		3.9
67-66-3	Chloroform	119.38	ND		3.9
74-87-3	Chloromethane	50.49	ND		9.6
156-59-2	cis-1,2-Dichloroethene	96.94	ND		3.9
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		3.9
110-82-7	Cyclohexane	84.16	170		9.6

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

11

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 | Lab Sample ID: 140-5720-11

Matrix: Air | Lab File ID: EI01P112.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: | Dilution Factor: 14.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.9
75-71-8	Dichlorodifluoromethane	120.91	ND		3.9
64-17-5	Ethanol	46.07	ND		96
100-41-4	Ethylbenzene	106.17	ND		3.9
87-68-3	Hexachlorobutadiene	260.76	ND		3.9
110-54-3	Hexane	86.17	260		9.6
1634-04-4	Methyl tert-butyl ether	88.15	ND		7.7
75-09-2	Methylene Chloride	84.93	ND		9.6
179601-23-1	m-Xylene & p-Xylene	106.17	8.3		3.9
95-47-6	o-Xylene	106.17	ND		3.9
100-42-5	Styrene	104.15	ND		3.9
75-65-0	t-Butyl alcohol	74.12	ND		15
127-18-4	Tetrachloroethene	165.83	ND		3.9
108-88-3	Toluene	92.14	6.2		5.8
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.9
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		3.9
79-01-6	Trichloroethene	131.39	ND		1.9
75-69-4	Trichlorofluoromethane	137.37	ND		3.9
75-01-4	Vinyl chloride	62.50	18		1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

4

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 | Lab Sample ID: 140-5720-11

Matrix: Air | Lab File ID: EI01P112.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: | Dilution Factor: 14.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		21
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		26
79-00-5	1,1,2-Trichloroethane	133.41	ND		21
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		30
75-34-3	1,1-Dichloroethane	98.96	ND		16
75-35-4	1,1-Dichloroethene	96.94	ND		15
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		29
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		19
106-93-4	1,2-Dibromoethane	187.87	ND		30
95-50-1	1,2-Dichlorobenzene	147.00	ND		23
107-06-2	1,2-Dichloroethane	98.96	ND		16
78-87-5	1,2-Dichloropropane	112.99	ND		18
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		27
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		19
541-73-1	1,3-Dichlorobenzene	147.00	ND		23
106-46-7	1,4-Dichlorobenzene	147.00	75		23
123-91-1	1,4-Dioxane	88.11	ND		35
540-84-1	2,2,4-Trimethylpentane	114.23	2100		45
78-93-3	2-Butanone	72.11	ND		46
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		40
71-43-2	Benzene	78.11	ND		12
100-44-7	Benzyl chloride	126.58	ND		40
75-27-4	Bromodichloromethane	163.83	ND		26
75-25-2	Bromoform	252.75	ND		40
74-83-9	Bromomethane	94.94	ND		15
56-23-5	Carbon tetrachloride	153.81	ND		12
108-90-7	Chlorobenzene	112.56	ND		18
75-00-3	Chloroethane	64.52	ND		10
67-66-3	Chloroform	119.38	ND		19
74-87-3	Chloromethane	50.49	ND		20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		15
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		18
110-82-7	Cyclohexane	84.16	570		33

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

11

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-219 | Lab Sample ID: 140-5720-11

Matrix: Air | Lab File ID: EI01P112.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:16

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 20:28

Soil Aliquot Vol: | Dilution Factor: 14.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		33
75-71-8	Dichlorodifluoromethane	120.91	ND		19
64-17-5	Ethanol	46.07	ND		180
100-41-4	Ethylbenzene	106.17	ND		17
87-68-3	Hexachlorobutadiene	260.76	ND		41
110-54-3	Hexane	86.17	920		34
1634-04-4	Methyl tert-butyl ether	88.15	ND		28
75-09-2	Methylene Chloride	84.93	ND		34
179601-23-1	m-Xylene & p-Xylene	106.17	36		17
95-47-6	o-Xylene	106.17	ND		17
100-42-5	Styrene	104.15	ND		16
75-65-0	t-Butyl alcohol	74.12	ND		47
127-18-4	Tetrachloroethene	165.83	ND		26
108-88-3	Toluene	92.14	23		22
156-60-5	trans-1,2-Dichloroethene	96.94	ND		15
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		18
79-01-6	Trichloroethene	131.39	ND		10
75-69-4	Trichlorofluoromethane	137.37	ND		22
75-01-4	Vinyl chloride	62.50	45		4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

MW 11/7/16

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

12

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 | Lab Sample ID: 140-5720-12

Matrix: Air | Lab File ID: EI01P113.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: | Dilution Factor: 1.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	4.2		0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.39
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.39
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	0.73		0.39
75-34-3	1,1-Dichloroethane	98.96	1.2		0.39
75-35-4	1,1-Dichloroethene	96.94	ND		0.39
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.39
95-63-6	1,2,4-Trimethylbenzene	120.20	2.8		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.39
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.39
107-06-2	1,2-Dichloroethane	98.96	ND		0.39
78-87-5	1,2-Dichloropropane	112.99	ND		0.39
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.39
108-67-8	1,3,5-Trimethylbenzene	120.20	0.94		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.39
106-46-7	1,4-Dichlorobenzene	147.00	18		0.39
123-91-1	1,4-Dioxane	88.11	ND		0.98
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.98
78-93-3	2-Butanone	72.11	9.4		1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.2	~~CM~~ J	0.98
71-43-2	Benzene	78.11	2.1		0.39
100-44-7	Benzyl chloride	126.58	ND		0.78
75-27-4	Bromodichloromethane	163.83	8.1		0.39
75-25-2	Bromoform	252.75	ND		0.39
74-83-9	Bromomethane	94.94	ND		0.39
56-23-5	Carbon tetrachloride	153.81	ND		0.20
108-90-7	Chlorobenzene	112.56	ND		0.39
75-00-3	Chloroethane	64.52	ND		0.39
67-66-3	Chloroform	119.38	27		0.39
74-87-3	Chloromethane	50.49	ND		0.98
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.39
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.39
110-82-7	Cyclohexane	84.16	1.3		0.98

MW 111714

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 | Lab Sample ID: 140-5720-12

Matrix: Air | Lab File ID: EI01P113.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: | Dilution Factor: 1.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	2.9		0.39
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.39
64-17-5	Ethanol	46.07	11		9.8
100-41-4	Ethylbenzene	106.17	1.7		0.39
87-68-3	Hexachlorobutadiene	260.76	ND		0.39
110-54-3	Hexane	86.17	4.2		0.98
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.78
75-09-2	Methylene Chloride	84.93	4.2		0.98
179601-23-1	m-Xylene & p-Xylene	106.17	6.6		0.39
95-47-6	o-Xylene	106.17	2.7		0.39
100-42-5	Styrene	104.15	0.61		0.39
75-65-0	t-Butyl alcohol	74.12	2.5		1.6
127-18-4	Tetrachloroethene	165.83	33		0.39
108-88-3	Toluene	92.14	7.5		0.59
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.39
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.39
79-01-6	Trichloroethene	131.39	2.4		0.20
75-69-4	Trichlorofluoromethane	137.37	0.75		0.39
75-01-4	Vinyl chloride	62.50	ND		0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 | Lab Sample ID: 140-5720-12

Matrix: Air | Lab File ID: EI01P113.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: | Dilution Factor: 1.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	23		2.1
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.1
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	5.6		3.0
75-34-3	1,1-Dichloroethane	98.96	4.8		1.6
75-35-4	1,1-Dichloroethene	96.94	ND		1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.9
95-63-6	1,2,4-Trimethylbenzene	120.20	14		1.9
106-93-4	1,2-Dibromoethane	187.87	ND		3.0
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4
107-06-2	1,2-Dichloroethane	98.96	ND		1.6
78-87-5	1,2-Dichloropropane	112.99	ND		1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.7
108-67-8	1,3,5-Trimethylbenzene	120.20	4.6		1.9
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4
106-46-7	1,4-Dichlorobenzene	147.00	110		2.4
123-91-1	1,4-Dioxane	88.11	ND		3.5
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.6
78-93-3	2-Butanone	72.11	28		4.6
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	5.0	J	4.0
71-43-2	Benzene	78.11	6.7		1.3
100-44-7	Benzyl chloride	126.58	ND		4.1
75-27-4	Bromodichloromethane	163.83	54		2.6
75-25-2	Bromoform	252.75	ND		4.1
74-83-9	Bromomethane	94.94	ND		1.5
56-23-5	Carbon tetrachloride	153.81	ND		1.2
108-90-7	Chlorobenzene	112.56	ND		1.8
75-00-3	Chloroethane	64.52	ND		1.0
67-66-3	Chloroform	119.38	130		1.9
74-87-3	Chloromethane	50.49	ND		2.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8
110-82-7	Cyclohexane	84.16	4.5		3.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-220 | Lab Sample ID: 140-5720-12

Matrix: Air | Lab File ID: EI01P113.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:19

Sample wt/vol: 150(mL) | Date Analyzed: 09/01/2016 21:12

Soil Aliquot Vol: | Dilution Factor: 1.47

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	25		3.3
75-71-8	Dichlorodifluoromethane	120.91	2.3		1.9
64-17-5	Ethanol	46.07	20		18
100-41-4	Ethylbenzene	106.17	7.3		1.7
87-68-3	Hexachlorobutadiene	260.76	ND		4.2
110-54-3	Hexane	86.17	15		3.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.8
75-09-2	Methylene Chloride	84.93	15		3.4
179601-23-1	m-Xylene & p-Xylene	106.17	29		1.7
95-47-6	o-Xylene	106.17	12		1.7
100-42-5	Styrene	104.15	2.6		1.7
75-65-0	t-Butyl alcohol	74.12	7.6		4.8
127-18-4	Tetrachloroethene	165.83	220		2.7
108-88-3	Toluene	92.14	28		2.2
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8
79-01-6	Trichloroethene	131.39	13		1.1
75-69-4	Trichlorofluoromethane	137.37	4.2		2.2
75-01-4	Vinyl chloride	62.50	ND		0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 | Lab Sample ID: 140-5720-13

Matrix: Air | Lab File ID: EI01P114.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		3.0
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		3.0
79-00-5	1,1,2-Trichloroethane	133.41	ND		3.0
76-13-1	*1,1,2-Trichlorotrifluoroethane*	*187.38*	~~750~~ 570	~~E~~	~~3.0~~ 5.5
75-34-3	1,1-Dichloroethane	98.96	ND		3.0
75-35-4	1,1-Dichloroethene	96.94	ND		3.0
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		3.0
106-93-4	1,2-Dibromoethane	187.87	ND		3.0
95-50-1	1,2-Dichlorobenzene	147.00	ND		3.0
107-06-2	1,2-Dichloroethane	98.96	ND		3.0
78-87-5	1,2-Dichloropropane	112.99	ND		3.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		3.0
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		3.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		3.0
106-46-7	1,4-Dichlorobenzene	147.00	11		3.0
123-91-1	1,4-Dioxane	88.11	ND		7.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		7.6
78-93-3	2-Butanone	72.11	ND		12
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		7.6
71-43-2	Benzene	78.11	ND		3.0
100-44-7	Benzyl chloride	126.58	ND		6.0
75-27-4	Bromodichloromethane	163.83	ND		3.0
75-25-2	Bromoform	252.75	ND		3.0
74-83-9	Bromomethane	94.94	ND		3.0
56-23-5	Carbon tetrachloride	153.81	ND		1.5
108-90-7	Chlorobenzene	112.56	ND		3.0
75-00-3	Chloroethane	64.52	ND		3.0
67-66-3	Chloroform	119.38	ND		3.0
74-87-3	Chloromethane	50.49	ND		7.6
156-59-2	cis-1,2-Dichloroethene	96.94	ND		3.0
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		3.0
110-82-7	Cyclohexane	84.16	ND		7.6

NW 111714

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 | Lab Sample ID: 140-5720-13

Matrix: Air | Lab File ID: EI01P114.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.0
75-71-8	Dichlorodifluoromethane	120.91	ND		3.0
64-17-5	Ethanol	46.07	ND		76
100-41-4	Ethylbenzene	106.17	ND		3.0
87-68-3	Hexachlorobutadiene	260.76	ND		3.0
110-54-3	Hexane	86.17	ND		7.6
1634-04-4	Methyl tert-butyl ether	88.15	ND		6.0
75-09-2	Methylene Chloride	84.93	ND		7.6
179601-23-1	m-Xylene & p-Xylene	106.17	ND		3.0
95-47-6	o-Xylene	106.17	ND		3.0
100-42-5	Styrene	104.15	ND		3.0
75-65-0	t-Butyl alcohol	74.12	ND		12
127-18-4	Tetrachloroethene	165.83	120		3.0
108-88-3	Toluene	92.14	4.5		4.5
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.0
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		3.0
79-01-6	Trichloroethene	131.39	ND		1.5
75-69-4	Trichlorofluoromethane	137.37	ND		3.0
75-01-4	Vinyl chloride	62.50	ND		1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

MW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

13

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 | Lab Sample ID: 140-5720-13

Matrix: Air | Lab File ID: EI01P114.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		21
79-00-5	1,1,2-Trichloroethane	133.41	ND		16
76-13-1	*1,1,2-Trichlorotrifluoroethane*	*187.38*	~~5700~~ 4400	~~E~~	~~23~~ 42
75-34-3	1,1-Dichloroethane	98.96	ND		12
75-35-4	1,1-Dichloroethene	96.94	ND		12
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		22
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		15
106-93-4	1,2-Dibromoethane	187.87	ND		23
95-50-1	1,2-Dichlorobenzene	147.00	ND		18
107-06-2	1,2-Dichloroethane	98.96	ND		12
78-87-5	1,2-Dichloropropane	112.99	ND		14
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		21
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		15
541-73-1	1,3-Dichlorobenzene	147.00	ND		18
106-46-7	1,4-Dichlorobenzene	147.00	63		18
123-91-1	1,4-Dioxane	88.11	ND		27
540-84-1	2,2,4-Trimethylpentane	114.23	ND		35
78-93-3	2-Butanone	72.11	ND		36
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		31
71-43-2	Benzene	78.11	ND		9.6
100-44-7	Benzyl chloride	126.58	ND		31
75-27-4	Bromodichloromethane	163.83	ND		20
75-25-2	Bromoform	252.75	ND		31
74-83-9	Bromomethane	94.94	ND		12
56-23-5	Carbon tetrachloride	153.81	ND		9.5
108-90-7	Chlorobenzene	112.56	ND		14
75-00-3	Chloroethane	64.52	ND		8.0
67-66-3	Chloroform	119.38	ND		15
74-87-3	Chloromethane	50.49	ND		16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		12
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		14
110-82-7	Cyclohexane	84.16	ND		26

MW 11/7/16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 | Lab Sample ID: 140-5720-13

Matrix: Air | Lab File ID: EI01P114.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 21:55

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		26
75-71-8	Dichlorodifluoromethane	120.91	ND		15
64-17-5	Ethanol	46.07	ND		140
100-41-4	Ethylbenzene	106.17	ND		13
87-68-3	Hexachlorobutadiene	260.76	ND		32
110-54-3	Hexane	86.17	ND		27
1634-04-4	Methyl tert-butyl ether	88.15	ND		22
75-09-2	Methylene Chloride	84.93	ND		26
179601-23-1	m-Xylene & p-Xylene	106.17	ND		13
95-47-6	o-Xylene	106.17	ND		13
100-42-5	Styrene	104.15	ND		13
75-65-0	t-Butyl alcohol	74.12	ND		37
127-18-4	Tetrachloroethene	165.83	830		20
108-88-3	Toluene	92.14	17		17
156-60-5	trans-1,2-Dichloroethene	96.94	ND		12
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		14
79-01-6	Trichloroethene	131.39	ND		8.1
75-69-4	Trichlorofluoromethane	137.37	ND		17
75-01-4	Vinyl chloride	62.50	ND		3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

11/9/16

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

13DL

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 DL | Lab Sample ID: 140-5720-13 DL

Matrix: Air | Lab File ID: EI02p108.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 11(mL) | Date Analyzed: 09/02/2016 22:00

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6493 | Units: ppb v/v

use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	570	D	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

111714

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

13DL

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-222 DL | Lab Sample ID: 140-5720-13 DL

Matrix: Air | Lab File ID: EI02p108.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:29

Sample wt/vol: 11(mL) | Date Analyzed: 09/02/2016 22:00

Soil Aliquot Vol: | Dilution Factor: 1.51

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6493 | Units: ug/m3

use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	4400	D	42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

117116

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

14

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 | Lab Sample ID: 140-5720-14

Matrix: Air | Lab File ID: EI01P115.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:28

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 22:38

Soil Aliquot Vol: | Dilution Factor: 25.98

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		52
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		52
79-00-5	1,1,2-Trichloroethane	133.41	ND		52
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	8000		52
75-34-3	1,1-Dichloroethane	98.96	ND		52
75-35-4	1,1-Dichloroethene	96.94	ND		52
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		52
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		52
106-93-4	1,2-Dibromoethane	187.87	ND		52
95-50-1	1,2-Dichlorobenzene	147.00	ND		52
107-06-2	1,2-Dichloroethane	98.96	ND		52
78-87-5	1,2-Dichloropropane	112.99	ND		52
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		52
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		52
541-73-1	1,3-Dichlorobenzene	147.00	ND		52
106-46-7	1,4-Dichlorobenzene	147.00	ND		52
123-91-1	1,4-Dioxane	88.11	ND		130
540-84-1	2,2,4-Trimethylpentane	114.23	ND		130
78-93-3	2-Butanone	72.11	ND		210
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		130
71-43-2	Benzene	78.11	ND		52
100-44-7	Benzyl chloride	126.58	ND		100
75-27-4	Bromodichloromethane	163.83	ND		52
75-25-2	Bromoform	252.75	ND		52
74-83-9	Bromomethane	94.94	ND		52
56-23-5	Carbon tetrachloride	153.81	ND		26
108-90-7	Chlorobenzene	112.56	ND		52
75-00-3	Chloroethane	64.52	ND		52
67-66-3	Chloroform	119.38	ND		52
74-87-3	Chloromethane	50.49	ND		130
156-59-2	cis-1,2-Dichloroethene	96.94	ND		52
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		52
110-82-7	Cyclohexane	84.16	ND		130

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 | Lab Sample ID: 140-5720-14

Matrix: Air | Lab File ID: EI01P115.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:28

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 22:38

Soil Aliquot Vol: | Dilution Factor: 25.98

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		52
75-71-8	Dichlorodifluoromethane	120.91	ND		52
64-17-5	Ethanol	46.07	ND		1300
100-41-4	Ethylbenzene	106.17	ND		52
87-68-3	Hexachlorobutadiene	260.76	ND		52
110-54-3	Hexane	86.17	ND		130
1634-04-4	Methyl tert-butyl ether	88.15	ND		100
75-09-2	Methylene Chloride	84.93	ND		130
179601-23-1	m-Xylene & p-Xylene	106.17	ND		52
95-47-6	o-Xylene	106.17	ND		52
100-42-5	Styrene	104.15	ND		52
75-65-0	t-Butyl alcohol	74.12	ND		210
127-18-4	Tetrachloroethene	165.83	150		52
108-88-3	Toluene	92.14	ND		78
156-60-5	trans-1,2-Dichloroethene	96.94	ND		52
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		52
79-01-6	Trichloroethene	131.39	ND		26
75-69-4	Trichlorofluoromethane	137.37	ND		52
75-01-4	Vinyl chloride	62.50	ND		26

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

14

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 | Lab Sample ID: 140-5720-14

Matrix: Air | Lab File ID: EI01P115.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:28

Sample wt/vol: 20(mL) | Date Analyzed: 09/01/2016 22:38

Soil Aliquot Vol: | Dilution Factor: 25.98

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		280
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		360
79-00-5	1,1,2-Trichloroethane	133.41	ND		280
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	62000		400
75-34-3	1,1-Dichloroethane	98.96	ND		210
75-35-4	1,1-Dichloroethene	96.94	ND		210
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		390
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		260
106-93-4	1,2-Dibromoethane	187.87	ND		400
95-50-1	1,2-Dichlorobenzene	147.00	ND		310
107-06-2	1,2-Dichloroethane	98.96	ND		210
78-87-5	1,2-Dichloropropane	112.99	ND		240
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		360
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		260
541-73-1	1,3-Dichlorobenzene	147.00	ND		310
106-46-7	1,4-Dichlorobenzene	147.00	ND		310
123-91-1	1,4-Dioxane	88.11	ND		470
540-84-1	2,2,4-Trimethylpentane	114.23	ND		610
78-93-3	2-Butanone	72.11	ND		610
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		530
71-43-2	Benzene	78.11	ND		170
100-44-7	Benzyl chloride	126.58	ND		540
75-27-4	Bromodichloromethane	163.83	ND		350
75-25-2	Bromoform	252.75	ND		540
74-83-9	Bromomethane	94.94	ND		200
56-23-5	Carbon tetrachloride	153.81	ND		160
108-90-7	Chlorobenzene	112.56	ND		240
75-00-3	Chloroethane	64.52	ND		140
67-66-3	Chloroform	119.38	ND		250
74-87-3	Chloromethane	50.49	ND		270
156-59-2	cis-1,2-Dichloroethene	96.94	ND		210
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		240
110-82-7	Cyclohexane	84.16	ND		450

NW111711

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

14

Lab Name: TestAmerica Knoxville | Job No.: 140-5720-1

SDG No.:

Client Sample ID: SG-221 | Lab Sample ID: 140-5720-14

Matrix: Air | Lab File ID: EI01P115.D

Analysis Method: TO 15 LL | Date Collected: 08/24/2016 11:28

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Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 6440 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		440
75-71-8	Dichlorodifluoromethane	120.91	ND		260
64-17-5	Ethanol	46.07	ND		2400
100-41-4	Ethylbenzene	106.17	ND		230
87-68-3	Hexachlorobutadiene	260.76	ND		550
110-54-3	Hexane	86.17	ND		460
1634-04-4	Methyl tert-butyl ether	88.15	ND		370
75-09-2	Methylene Chloride	84.93	ND		450
179601-23-1	m-Xylene & p-Xylene	106.17	ND		230
95-47-6	o-Xylene	106.17	ND		230
100-42-5	Styrene	104.15	ND		220
75-65-0	t-Butyl alcohol	74.12	ND		630
127-18-4	Tetrachloroethene	165.83	1000		350
108-88-3	Toluene	92.14	ND		290
156-60-5	trans-1,2-Dichloroethene	96.94	ND		210
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		240
79-01-6	Trichloroethene	131.39	ND		140
75-69-4	Trichlorofluoromethane	137.37	ND		290
75-01-4	Vinyl chloride	62.50	ND		66

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

11/7/16