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2018 First Semiannual Groundwater/Surfacewater Quality Monitoring Report

Mineral Springs Road Former MGP Site (NYSDEC
#V00195)
West Seneca, New York

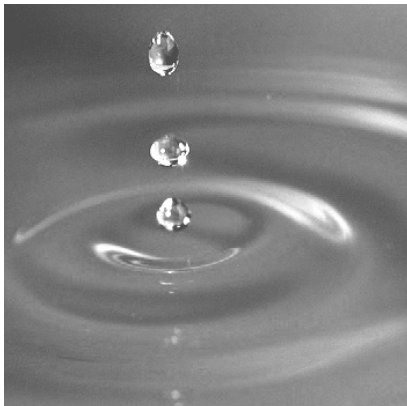
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1. INTRODUCTION

This report presents a summary of groundwater and surface water quality monitoring results for the 2018 first semiannual monitoring event at the National Fuel Gas Mineral Springs facility at 365 Mineral Springs Road in West Seneca, New York (Site). The site is a former manufactured gas plant (MGP) and implements ongoing operations and maintenance which includes groundwater and surface water quality monitoring.

1.1 Background

The Site is currently an active National Fuel Gas service center consisting of approximately 81 acres and includes seven active buildings, numerous parking areas, pipeline equipment and staging areas, and undeveloped areas. The site location and site layout are shown in Figures 1 and 2, respectively.

National Fuel completed remedial construction which included source removal and containment in 2001 under a Voluntary Cleanup Agreement (VCA) No. B9-0538-98-08 between National Fuel and the New York State Department of Environmental Conservation (NYSDEC). Remedial and engineering control features include perimeter fencing, six asphalt caps, a clay cap, a HDPE cap, and a capped drainage feature consisting of both clay and HDPE caps. National Fuel performs operations and maintenance (O&M) activities for the remedy in accordance with the Final Engineering Report, Volume II – Operations and Maintenance (O&M) Plan, dated May 2002 (O&M Plan). The O&M Plan specifies groundwater and surface water quality monitoring conducted on a semiannual basis.

1.2 Site Conditions

The Site is relatively flat lying. An unnamed surface water drainage feature, designated as a Class D stream, is situated along the southern site boundary and flows in a westward direction. The stratigraphy of the site in order of occurrence is:

- soil fill (4 to 8-feet in thickness)
- approximately 10-feet of a laterally extensive clay (referred to as the upper confining clay layer {UCL})
- silt, sand, and gravel
- a lower confining clay layer (LCL), and bedrock.

Overburden groundwater is typically encountered 5- to 12-feet below ground surface and fluctuates approximately 2-feet seasonally. Overburden groundwater flow is generally to the north and northwest toward Mineral Springs Road, Calais Street, and the Buffalo River. Average overburden groundwater velocity across the site is calculated to be approximately 0.06 feet per day (22 feet per year).

2. MONITORING NETWORK AND SAMPLING METHODS

Groundwater monitoring well and surface water sampling locations are shown on Figure 2. The groundwater monitoring wells were installed during and following completion of remedial construction and are screened to monitor groundwater flowing in the lower UCL and the silt, sand, and gravel layer. The O&M Plan specifies groundwater sample collection and analysis from 13 on-site and off-site monitoring wells. In addition, the determination for accumulated DNAPL in Recovery Well #1 (RTW-1) and purging of accumulated liquid, if present, is included in the groundwater monitoring program. Consistent with the O&M Plan, groundwater samples were collected using low-flow sampling methods with peristaltic pumps.

Surface water sample locations identified in the O&M Plan include SW-01 and SW-02 situated upstream and downstream of the facility are sampled. Three additional surface water sampling locations (SW-03, SW-04, and SW-05) were added to the monitoring program to assess the distribution of possible MGP-related constituents of concern (COCs) in surface water (total and free cyanide).

Groundwater and surface water samples for the 2018 First Semiannual monitoring event were collected on April 17 and 18, 2018 by a GEI sampling team. Monitoring was consistent with sampling procedures described in the O&M Plan. Table 1 summarizes sampling location, sample analysis, and Quality Control sample analysis, and current reference elevations. A synoptic round of water levels was measured in monitoring wells on April 17, 2018 and water levels were recorded prior to purging and sampling. Groundwater elevations are summarized in Table 2.

Field measured parameters were taken periodically during purging and include Temperature, pH, Oxidation-Reduction Potential (ORP), electrical conductance, and turbidity. A summary of final field measured parameters is included in Table 3. All samples were placed in coolers and iced during same day transport under chain-of-custody to the analytical laboratory (Test America) located in Amherst, New York. Final laboratory analytical data reports were made available to GEI on May 30, 2018.

3. LABORATORY METHODS AND QUALITY CONTROL

3.1 Laboratory Methods

Samples were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C, polycyclic aromatic hydrocarbon (PAH) semi-volatile organic compounds (SVOCs) by SW-846 method 8270D, total cyanide by SW-846 method 9012B, free cyanide by SW-846 method 9016, total dissolved solids (TDS) by Standard Methods SM2540C, and total suspended solids (TSS) by Standard Methods. Except for cyanide, samples were analyzed by Test America Laboratories, Inc. (Test America) of Amherst, New York. Total and free cyanide analyses were performed by Test America of Edison, New Jersey. Each laboratory maintains NYSDOH ELAP certifications.

3.2 Laboratory Quality Control

Laboratory data packages are included in Appendix A. General quality assurance and quality control (QA/QC) measures were taken to ensure the reliability of the data generated during the sampling event. These measures include the submittal of trip blanks, field blanks and the collection of duplicate samples. Equipment blanks were not required since dedicated sampling equipment was used.

The specific methodologies employed in obtaining the analytical results refer to the following USEPA references.

- “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods” (SW-846), Third Edition, September 1994, USEPA Office of Solid Waste.
- 40CFR Part 136 “Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act”, October 26, 1984 USEPA.

The data validation was performed based on the Standard Operating Procedure (SOP) HW-33 (Revision 3) Low/Medium Volatile Data Validation (March 2013), SOP HW-35 (Revision 2) Semivolatile Data Validation (March 2013), and SOP 2c (Revision 15), SOP for the Evaluation of Cyanide for the Contract Laboratory Program (December 2012), modified for the SW-846 methodologies utilized.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Internal Standard Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Blind duplicate samples were collected at sampling location well MW-11A and submitted for analyses with the sample delivery group to assess laboratory precision. Laboratory accuracy was assessed through analysis of surrogate spike recoveries.

Data usability review is provided in Appendix B. In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. No deviations from analytic protocol that affected the acceptability of the results were reported by the laboratories. Where laboratory quality control results necessitated a need for data qualification, the laboratory flagged the analytical result with an appropriate data qualifier. No results were rejected.

4. EVALUATION OF MONITORING RESULTS

The groundwater analytical results for the April 2018 sampling event are summarized in Tables 4A and 4B. Surface water samples results are summarized in Table 5. Results for the April 2018 monitoring event are compared to the NYSDEC Technical Operational and Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998) (herein referred to as groundwater standards or water quality comparison criteria). Sampling results are discussed below.

4.1 Groundwater Elevations and Flow

A potentiometric surface map of groundwater elevations for the upper water-bearing zone at the site is provided on Figure 3. The groundwater flow direction occurs predominantly in a north and west direction. Surface water elevations in the Class D stream were higher than heads measured in nearby wells indicating “losing stream conditions” where groundwater is recharged by surface water infiltrating the base grade of the stream. A slightly higher surface water elevation at downstream location SW-01 is observed. It is postulated that a surface water flow restriction at the headwall of the 72-inch diameter storm sewer area causes slight mounding of the surface water elevation at that location.

4.2 Constituents Detected in Groundwater

Monitoring well locations provide groundwater quality data for on-site areas near former MGP residual remediation areas and near the site perimeter at both on-site and off-site monitoring locations. Groundwater quality in each of these areas is described below.

On-Site Areas

Monitoring wells MW-07, MW-10, MW-11A, and MW-19 assess on-site groundwater quality downgradient of subsurface soils impacted with hydrocarbon MGP residuals. BTEX compounds were not detected at MW-10. BTEX compounds were detected above the NYSDEC Groundwater Standards in MW-07, MW-11A (benzene only), and MW-19. Concentrations of BTEX compounds were consistent with historical analytical data.

While BTEX compounds were not detected at MW-10, low concentrations of PAH compounds were detected above water quality comparison criteria in the well. In addition, PAH compounds were also detected at MW-07 (naphthalene and acenaphthene) and MW-19 (naphthalene) at concentrations above water quality comparison criteria. Laboratory dilutions were required for naphthalene analysis due to part per million level detected concentrations resulting in elevated reporting limits for other PAHs in these two samples.

Well MW-11A includes analysis for total and free cyanide, plus analysis for TDS and TSS in support of the assessment of cyanide detection in surface water. Total cyanide was detected at 230 µg/L which is slightly above the NYS groundwater standard of 200 µg/L. The result is higher than the August 2017 total cyanide concentration of 175 µg/L. Free cyanide was not detected in the sample. TDS and TSS concentrations in well MW-11A were 702 mg/L and 32.4 mg/L, respectively. The TDS concentration in MW-11A was lower this event than the August 2017 event (766 mg/L). TSS, a measure of suspended particulate in the sample, was analyzed for the first time this event. Interpretation of these concentrations is described with surface water sample results in Section 4.3.

Monitoring wells MW-12 and MW-16 assess on-site groundwater quality at locations of capped areas with known subsurface deposits of MGP purifier box residuals. Groundwater samples from these two wells were analyzed for total and free cyanide. Total cyanide concentrations were reported as 810 µg/L at MW-12 and 1,900 µg/L at MW-16, each greater than water quality comparison criteria. The concentration detected this event at MW-12 was lower than the August 2017 sampling event (1700 µg/L) and the concentration at MW-16 was higher than the August 2017 sampling event (1690 µg/L). Free cyanide concentrations were reported at laboratory qualified concentrations of 3.1 J µg/L at MW-12 and as 18.1 J µg/L at MW-16 - there is no NYSDEC Groundwater Standard for free cyanide. Higher concentrations were reported for each well during the prior August 2017 (7.2 µg/L and 38.8 µg/L, respectively). An assessment of trend will be evaluated following the August 2018 sampling event.

Site Perimeter

Monitoring well MW-17 assesses upgradient groundwater quality and wells MW-13, MW-14, MW-20, MW-21, MW-22, and MW-23 monitor downgradient water quality with MW-20 and MW-21 monitoring cyanide concentrations at off-site locations.

BTEX compounds were not detected in the perimeter wells tested. Trace level concentrations of PAH compounds were detected above water quality comparison criteria in well MW-23. PAHs were not detected in other wells tested.

Total cyanide was detected at a concentration of 110 µg/L in upgradient well MW-17 and is considered representative of background. Total cyanide was detected in downgradient wells at concentrations above water quality comparison criteria (200 µg/L) in wells MW-14, MW-20, MW-21, MW-22, and MW-23 at concentrations ranging from 410 µg/L to 710 µg/L. The detected total cyanide concentrations detected in each well was lower this event than the August 2017 event except for well MW-23. Total cyanide was detected in well MW-23 at 410 µg/L this event compared to 329 µg/L the prior event but is lower than total cyanide concentrations detected between 2013 and 2015.

Free cyanide was not detected above reporting limits in any of the perimeter wells.

4.3 Constituents Detected in Surface Water

Two surface water samples (SW-01 and SW-02) were collected from the NYSDEC Class D Stream flowing along the south side of the site. These surface water sampling locations monitor the effectiveness of the containment engineering controls of the Eastern Drainage Ditch Cap and monitor the concentrations of constituents of concern in surface water downstream of the Site. The collected samples were analyzed for BTEX and PAH compounds, as well as total and free cyanide. Surface water samples were also collected from supplemental sampling locations (SW-03, SW-04, and SW-05) and analyzed for total and free cyanide to assess distribution in areas upstream from SW-02.

BTEX and PAH compounds were either not detected or detected at trace level concentrations below NYSDEC Ambient Surface Water Quality Standards for Class D Streams (comparison criteria) in the surface water samples.

Total and free cyanide concentrations were below comparison criteria in each of the surface water samples and concentrations were lower than those detected during the August 2017 sampling event. Higher TDS concentrations in upstream surface water samples was observed this event than in downstream samples. Correlation between detected cyanide concentration and TDS/TSS levels was not identified.

4.4 DNAPL Recovery Test Well

On April 18, 2018, the Recovery System at RTW-1 was gauged using a threaded steel rod to assess whether DNAPL had accumulated since the August 2017 sampling event. No visual staining was observed on the rod bottom. Rigid tubing was lowered to the base of the well and pumped using peristaltic methods. Approximately two liters of water were evacuated. The water contained only trace DNAPL in the form of “blebs”, visually estimated to be less than 1% of total volume. Based on the testing performed, DNAPL accumulation was not identified during April 2018 monitoring event.

5. Summary

A summary of April 2018 field testing and water quality monitoring in on-site remediated areas, perimeter areas, and on-site surface water is provided below:

On-Site Areas:

- BTEX compounds were detected above comparison criteria in wells MW-07, MW-11A (benzene only), and MW-19. The detected concentrations were consistent with historical analytical data.
- Low concentrations of PAHs were detected above water quality comparison criteria in MW-10, MW-7, and MW-19. The detected concentrations were consistent with historical analytical data.

Perimeter Areas:

- BTEX compounds were not detected in wells tested. Trace level concentrations of PAH compounds were detected above water quality comparison criteria in well MW-23 at levels consistent with historical results. PAHs were not detected in other wells tested.
- Total cyanide was detected in downgradient wells at concentrations above quality comparison criteria (200 µg/L) in wells MW-14, MW-20, MW-21, MW-22, and MW-23 at concentrations ranging from 410 µg/L to 710 µg/L. The detected total cyanide concentrations were lower this event than the August 2017 event (except well MW-23 which was lower than concentrations detected between 2013 and 2015).
- Free cyanide was not detected above reporting limits in any of the perimeter wells.

Surface Water:

- BTEX and PAH compounds were either not detected or detected at trace level concentrations below NYSDEC comparison criteria.
- Total and free cyanide concentrations were below comparison criteria in each of the surface water samples. The detected concentrations were lower than those detected during the August 2017 sampling event.

DNAPL accumulation was not identified in RTW-1 during April 2018 monitoring event.

A discussion of historical concentration trends will be presented with reporting that summarizes the August 2018 sampling event. No immediate response actions appear to be warranted and modifications to the sampling program are not currently recommended.

Tables

Table 1. 2018 First Semiannual Monitoring Water Sampling Summary
Mineral Springs Road MGP Site
National Fuel Gas Distribution Corporation
West Seneca, New York

Location	Cyanide, Total USEPA SW846 9014	Cyanide, Free USEPA SW846 9016	BTEX USEPA SW846 8260C	PAHs USEPA SW846 8270D	TDS/TSS SM 2540C/2540D	Specific Conductivity Field Measurement	Water Elevation	Benchmark Elevation (ft. MSL, top of PVC casing)
Upgradient Site Perimeter								
MW-17	x	x	x	x		x	x	587.28
Downgradient Site Perimeter								
MW-13	x	x	x	x		x	x	591.85
MW-14	x	x				x	x	589.53
MW-15							x	590.93
MW-20	x	x				x	x	587.06
MW-21	x	x				x	x	587.84
MW-22	x	x				x	x	592.50
MW-23	x	x	x	x		x	x	589.28
Onsite Purifier Residuals Impacted Areas								
MW-12	x	x				x	x	591.40
MW-16	x	x				x	x	588.99
Onsite Hydrocarbon Impacted Areas								
MW-07			x	x		x	x	587.01
MW-10			x	x		x	x	587.61
MW-11A ²	x ²	x ²	x	x	x ²	x	x	589.78
MW-19			x	x		x	x	589.83
Onsite Surface Water								
SW-01 ²	x	x	x	x	x ²	x ²	x	top of headwall = 587.0
SW-02 ²	x	x	x	x	x ²	x ²	x ²	MW-11A ref. pt
SW-03 ²	x ²	x ²			x ²	x ²		
SW-04 ²	x ²	x ²			x ²	x ²		
SW-05 ²	x ²	x ²			x ²	x ²		
QA/QC Samples (frequency)								
Trip Blank			x					(one per shipment)
Field Duplicate	x	x	x	x				(one per event)
Equipment Blank	x	x	x	x				(one per event)
DNAPL Recovery								
RTW-1					No Sample Collection			(purge well of accumulated DNAPL)
Total	17	17	12	11	12	18	16	
Container, Preservative	250 mL plastic, NaOH	250 mL plastic amber, NaOH	40 mL VOA vial, HCl (x3)	250 mL glass amber, NP (x2)	500 mL plastic, unpreserved			

Notes:

1. Elevations are from the 2007 survey, except for MW-20, which was resurveyed in August 2009 due to a repair.
2. Supplemental sampling at this location was conducted in August 2017 and April 2018.

Table 2. Groundwater Elevations
Mineral Springs Road MGP Site
National Fuel Gas Distribution Corporation
West Seneca, New York

Well ID	TOR Elevation ⁽¹⁾	April 17, 2018 (FIRST SEMIANNUAL 2018)	
		Depth	Elevation
MW-07	587.01	4.80	582.21
MW-10	587.61	6.40	581.21
MW-11A	589.78	8.15	581.63
MW-12	591.40	10.06	581.34
MW-13	591.85	10.56	581.29
MW-14	589.53	10.70	578.83
MW-15	590.93	10.40	580.53
MW-16	588.99	8.70	580.29
MW-17	587.28	3.98	583.30
MW-19	589.83	7.58	582.25
MW-20	587.06	6.38	580.68
MW-21	587.84	8.42	579.42
MW-22	592.50	10.41	582.09
MW-23	589.28	10.22	579.06
SW-1	587.0 (Top Headwall)	3.08	583.92
SW-2	above head in Well 11A	1.89	583.52
RTW-1	na	8.98	na

Notes:

⁽¹⁾ TOR (top of riser for monitoring wells)
measured in feet; distance above sea level.

Table 3. Field Measured Parameters
Mineral Springs Road MGP Site
National Fuel Gas Distribution Corporation
West Seneca, New York

Well ID	Sampling Date	Sampling Time	pH (standard units)	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (ntu)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (ppm)	Comments
Groundwater Monitoring Wells									
MW-07	04/17/18	13:35	6.52	1.89	9.90	3.65	-74.3	0.12	
MW-10	04/17/18	12:35	7.04	0.95	6.70	5.70	106.8	4.96	
MW-11A	04/18/18	10:40	6.76	1.02	8.00	5.47	-19.0	0.18	Duplicate collected
MW-12	04/18/18	8:55	5.01	4.98	9.00	4.60	-42.9	0.23	
MW-13	04/17/18	10:30	6.60	0.694	9.80	0.73	99.5	6.50	
MW-14	04/17/18	11:25	6.47	2.57	10.1	24.0	-89.7	0.08	
MW-16	04/17/18	14:15	4.62	3.82	9.30	5.10	92.7	0.16	
MW-17	04/18/18	13:25	6.63	2.29	7.2	1.39	-33.9	0.14	
MW-19	04/18/18	10:35	6.66	1.43	9.50	1.50	-84.0	0.14	
MW-20	04/17/18	12:30	6.51	2.25	8.20	3.29	-87.1	0.71	
MW-21	04/17/18	14:15	6.51	3.3	9.60	0.74	-87.7	1.40	
MW-22	04/18/18	9:13	6.67	2.24	10.2	2.69	-95.7	0.19	
MW-23	04/17/18	9:45	6.59	7.11	11.3	1.89	231	1.85	
Surface Water Sampling Locations*									
SW-01	04/18/18	14:15	--	1.54	--	--	--	--	
SW-02	04/18/18	11:30	--	0.705	--	--	--	--	
SW-03	04/18/18	12:05	--	0.718	--	--	--	--	
SW-04	04/18/18	12:45	--	4.00	--	--	--	--	
SW-05	04/18/18	13:05	--	1.59	--	--	--	--	

Notes:

* Surface water sampling locations are field measured for specific conductance concentrations only.

Table 4A. Mineral Springs MGP
Groundwater Analysis Results - On-Site Area
National Fuel Gas
Mineral Springs, NY

Location Name Sample Name Sample Date Parent Sample				MW-07 MW-07 4/17/2018	MW-10 MW-10 4/17/2018	MW-11A MW-11A 4/18/2018	MW-11A Duplicate 4/18/2018 MW-11A	MW-12 MW-12 4/18/2018	MW-16 MW-16 4/17/2018	MW-19 MW-19 4/18/2018
Analyte	Units	CAS No.	NYS AWQS							
BTEX	ug/L									
Benzene		71-43-2	1	840	1 U	4.2	4.5			5400
Toluene		108-88-3	5	36	1 U	4 U	1 U			100 U
Ethylbenzene		100-41-4	5	1800 J	1 U	4 U	1 U			600
Total Xylene		1330-20-7	5	1100	2 U	8 U	2 U			200 U
Total BTEX (ND=0)		TBTEX_ND0	NE	3776	ND	4.2	4.5			6000
NYSDEC PAH17	ug/L									
Acenaphthene		83-32-9	20*	150 J	0.5 U	1.2	1.3			130 U
Acenaphthylene		208-96-8	NE	250 U	0.5 U	0.37 J	0.47 J			130 U
Anthracene		120-12-7	50*	250 U	0.5 U	0.5 U	0.5 U			130 U
Benzo(a)anthracene		56-55-3	0.002*	250 U	0.5 U	0.5 U	0.5 U			130 U
Benzo(b)fluoranthene		205-99-2	0.002*	250 U	1.8	0.5 U	0.5 U			130 U
Benzo(k)fluoranthene		207-08-9	0.002*	250 U	0.51	0.5 U	0.5 U			130 U
Benzo(g,h,i)perylene		191-24-2	NE	250 U	0.71	0.5 U	0.5 U			130 U
Benzo(a)pyrene		50-32-8	ND	250 U	0.65	0.5 U	0.5 U			130 U
Chrysene		218-01-9	0.002*	250 U	1.6	0.5 U	0.5 U			130 U
Dibenz(a,h)anthracene		53-70-3	NE	250 U	0.5 U	0.5 U	0.5 U			130 U
Fluoranthene		206-44-0	50*	250 U	4	0.5 U	0.5 U			130 U
Fluorene		86-73-7	50*	250 U	0.5 U	0.5 U	0.5 U			130 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	250 U	0.64	0.5 U	0.5 U			130 U
2-Methylnaphthalene		91-57-6	NE	260	0.5 U	0.5 U	0.5 U			130 U
Naphthalene		91-20-3	10*	3200	0.5 U	0.5 U	1.2			4700
Phenanthrene		85-01-8	50*	250 U	3.3	0.5 U	0.5 U			130 U
Pyrene		129-00-0	50*	250 U	2	0.5 U	0.36 J			130 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	3610	15.21	1.57	3.33			4700
Cyanides	ug/L									
Free Cyanide		FREECN	NE			5 UJ	5 UJ	3.1 J	18.1 J	
Total Cyanide		57-12-5	200			230	240	810	1900	
Other										
Total Dissolved Solids	ug/L	TDS	NE			702000				
Total Suspended Solids	ug/L	TSS	NE			32400				

Table 4B. Mineral Springs MGP
Groundwater Analysis Results - Perimeter Areas
National Fuel Gas
Mineral Springs, NY

Location Name Sample Name Sample Date				MW-13 MW-13 4/17/2018	MW-14 MW-14 4/17/2018	MW-17 MW-17 4/18/2018	MW-20 MW-20 4/17/2018	MW-21 MW-21 4/17/2018	MW-22 MW-22 4/18/2018	MW-23 MW-23 4/17/2018
Analyte	Units	CAS No.	NYS AWQS							
BTEX	ug/L									
Benzene		71-43-2	1	1 U		4 U				1 U
Toluene		108-88-3	5	1 U		4 U				1 U
Ethylbenzene		100-41-4	5	1 U		4 U				1 U
Total Xylene		1330-20-7	5	2 U		8 U				2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND		ND				ND
NYSDEC PAH17	ug/L									
Acenaphthene		83-32-9	20*	0.5 U		0.54 U				0.5 U
Acenaphthylene		208-96-8	NE	0.5 U		0.54 U				0.5 U
Anthracene		120-12-7	50*	0.5 U		0.54 U				0.5 U
Benzo(a)anthracene		56-55-3	0.002*	0.5 U		0.54 U				0.5 U
Benzo(b)fluoranthene		205-99-2	0.002*	0.5 U		0.54 U				0.53
Benzo(k)fluoranthene		207-08-9	0.002*	0.5 U		0.54 U				0.24 J
Benzo(g,h,i)perylene		191-24-2	NE	0.5 U		0.54 U				0.38 J
Benzo(a)pyrene		50-32-8	ND	0.5 U		0.54 U				0.33 J
Chrysene		218-01-9	0.002*	0.5 U		0.54 U				0.33 J
Dibenz(a,h)anthracene		53-70-3	NE	0.5 U		0.54 U				0.5 U
Fluoranthene		206-44-0	50*	0.5 U		0.54 U				0.61
Fluorene		86-73-7	50*	0.5 U		0.54 U				0.5 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	0.5 U		0.54 U				0.5 U
2-Methylnaphthalene		91-57-6	NE	0.5 U		0.54 U				0.5 U
Naphthalene		91-20-3	10*	0.5 U		0.54 U				0.5 U
Phenanthrene		85-01-8	50*	0.5 U		0.54 U				0.5 U
Pyrene		129-00-0	50*	0.5 U		0.54 U				0.48 J
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND		ND				2.9
Cyanides	ug/L									
Free Cyanide		FREECN	NE	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Total Cyanide		57-12-5	200	11	520	110	600	710	440	410

Table 4. Mineral Springs MGP
Groundwater Analysis Results
National Fuel Gas
Mineral Springs, NY

Notes:

Analytes in blue are not detected in any sample. Blank result indicates parameter not analyzed for.

ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.

Total PAH16 is calculated using the EPA16 list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, Phenanthrene, and Pyrene

Total PAH17 is calculated using the EPA16 list of analytes plus 2-Methylnaphthalene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater

* indicates the value is a guidance value and not a standard

CAS No. = Chemical Abstracts Service Number

MGP = Manufactured Gas Plant

ND = Not Detected

NE = Not Established

NYSDEC = New York State Department of Environmental Conservation

Bolding indicates a detected result concentration

Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Gray shading and bolding indicates that the detected result value exceeds the NYS AWQS

Validation Qualifiers:

J = The result is an estimated value.

U = The result was not detected above the reporting limit.

Table 5. Mineral Springs MGP
Surfacewater Analysis Results
National Fuel Gas
Mineral Springs, NY

Location Name Sample Name Sample Date				SW-01 SW-01 4/18/2018	SW-02 SW-02 4/18/2018	SW-03 SW-03 4/18/2018	SW-04 SW-04 4/18/2018	SW-05 SW-05 4/18/2018
Analyte	Units	CAS No.	Class D Stream					
BTEX	ug/L							
Benzene		71-43-2	10	1 U	1 U			
Toluene		108-88-3	6000	1 U	1 U			
Ethylbenzene		100-41-4	150*	1 U	1 U			
Total Xylene		1330-20-7	590*	2 U	2 U			
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND			
NYSDEC PAH17	ug/L							
Acenaphthene		83-32-9	48*	0.5 U	0.5 U			
Acenaphthylene		208-96-8	NE	0.5 U	0.5 U			
Anthracene		120-12-7	35*	0.5 U	0.5 U			
Benzo(a)anthracene		56-55-3	0.23*	0.5 U	0.5 U			
Benzo(b)fluoranthene		205-99-2	NE	0.5 U	0.57			
Benzo(k)fluoranthene		207-08-9	NE	0.5 U	0.5 U			
Benzo(g,h,i)perylene		191-24-2	NE	0.5 U	0.5 U			
Benzo(a)pyrene		50-32-8	0.0012*	0.5 U	0.5 U			
Chrysene		218-01-9	NE	0.5 U	0.5			
Dibenz(a,h)anthracene		53-70-3	NE	0.5 U	0.5 U			
Fluoranthene		206-44-0	NE	0.5 U	0.81			
Fluorene		86-73-7	4.8*	0.5 U	0.5 U			
Indeno(1,2,3-cd)pyrene		193-39-5	NE	0.5 U	0.5 U			
2-Methylnaphthalene		91-57-6	NE	0.5 U	0.5 U			
Naphthalene		91-20-3	110*	2.2	0.5 U			
Phenanthrene		85-01-8	45*	0.5 U	0.5 U			
Pyrene		129-00-0	42*	0.5 U	0.58			
Total PAH (17) (ND=0)		TPAH17_ND0	NE	2.2	2.46			
Cyanides	ug/L							
Free Cyanide		FREECN	22	5.1 J	7.1 J	16.6 J	5 UJ	5 UJ
Total Cyanide		57-12-5	9000	63	130	240	9.5 J	10 U
Other	ug/L							
Total Dissolved Solids		TDS	NE	824000	366000	411000	1960000 J	863000
Total Suspended Solids		TSS	NE	4000 U	32400	4400	9600	6800

Table 5. Mineral Springs MGP
Surfacewater Analysis Results
National Fuel Gas
Mineral Springs, NY

Notes:

Analytes in blue are not detected in any sample. Blank result indicates parameter not analyzed for.

ug/L = micrograms per liter or parts per billion (ppb)

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbon

Total BTEX and Total PAHs are calculated using detects only.
Total PAH16 is calculated using the EPA16 list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, Phenanthrene, and Pyrene

Total PAH17 is calculated using the EPA16 list of analytes plus 2-Methylnaphthalene

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

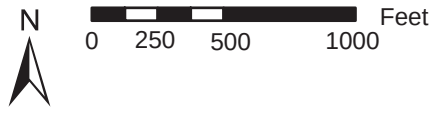
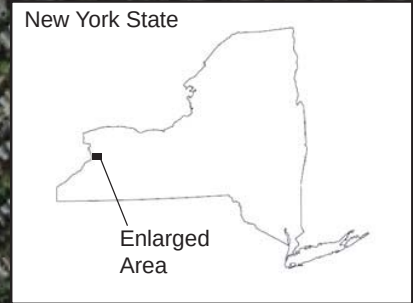
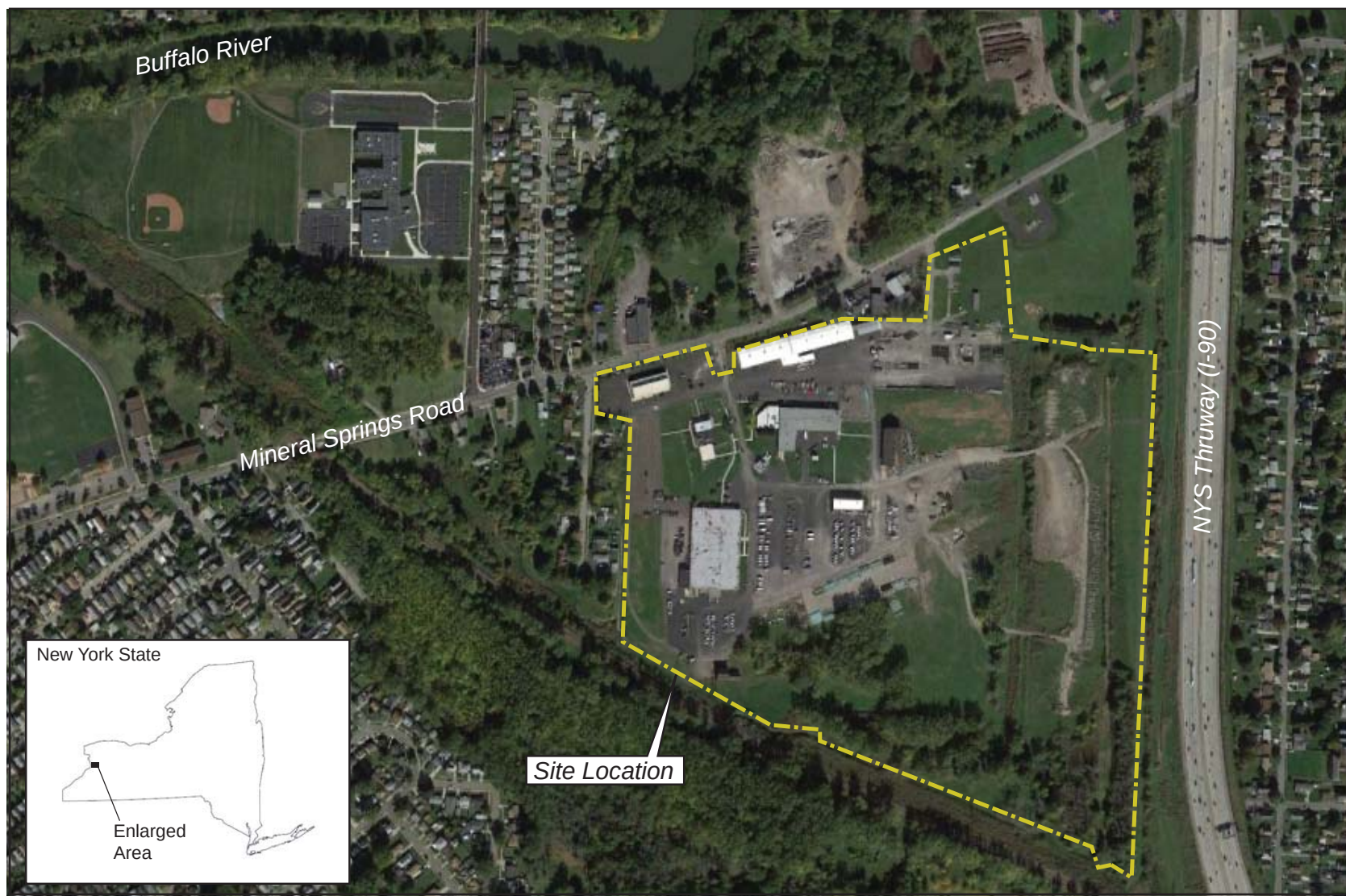
CAS No. = Chemical Abstracts Service Number
MGP = Manufactured Gas Plant
ND = Not Detected
NE = Not Established
NYSDEC = New York State Department of Environmental Conservation

Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Validation Qualifiers:

J = The result is an estimated value.
U = The result was not detected above the reporting limit.

Figures



Notes:
Aerial Imagery Sourced from Google Maps (<http://www.maps.google.com>) dated 2016.

National Fuel Gas Corporation
Mineral Springs Facility

West Seneca, New York



Project #1801042

SITE LOCATION

June 2018

Figure 1

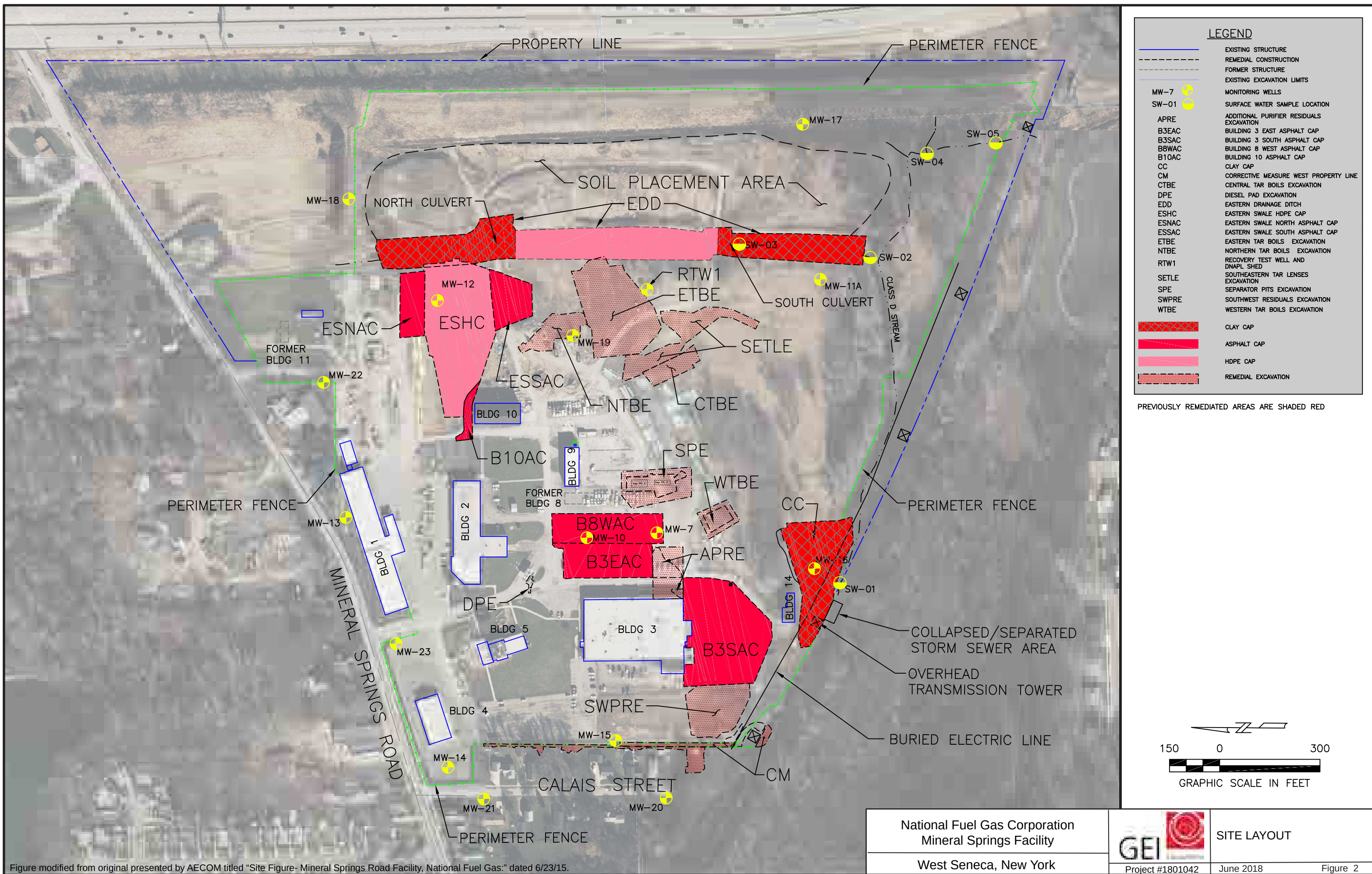


Figure modified from original presented by AECOM titled "Site Figure- Mineral Springs Road Facility, National Fuel Gas:" dated 6/23/15.

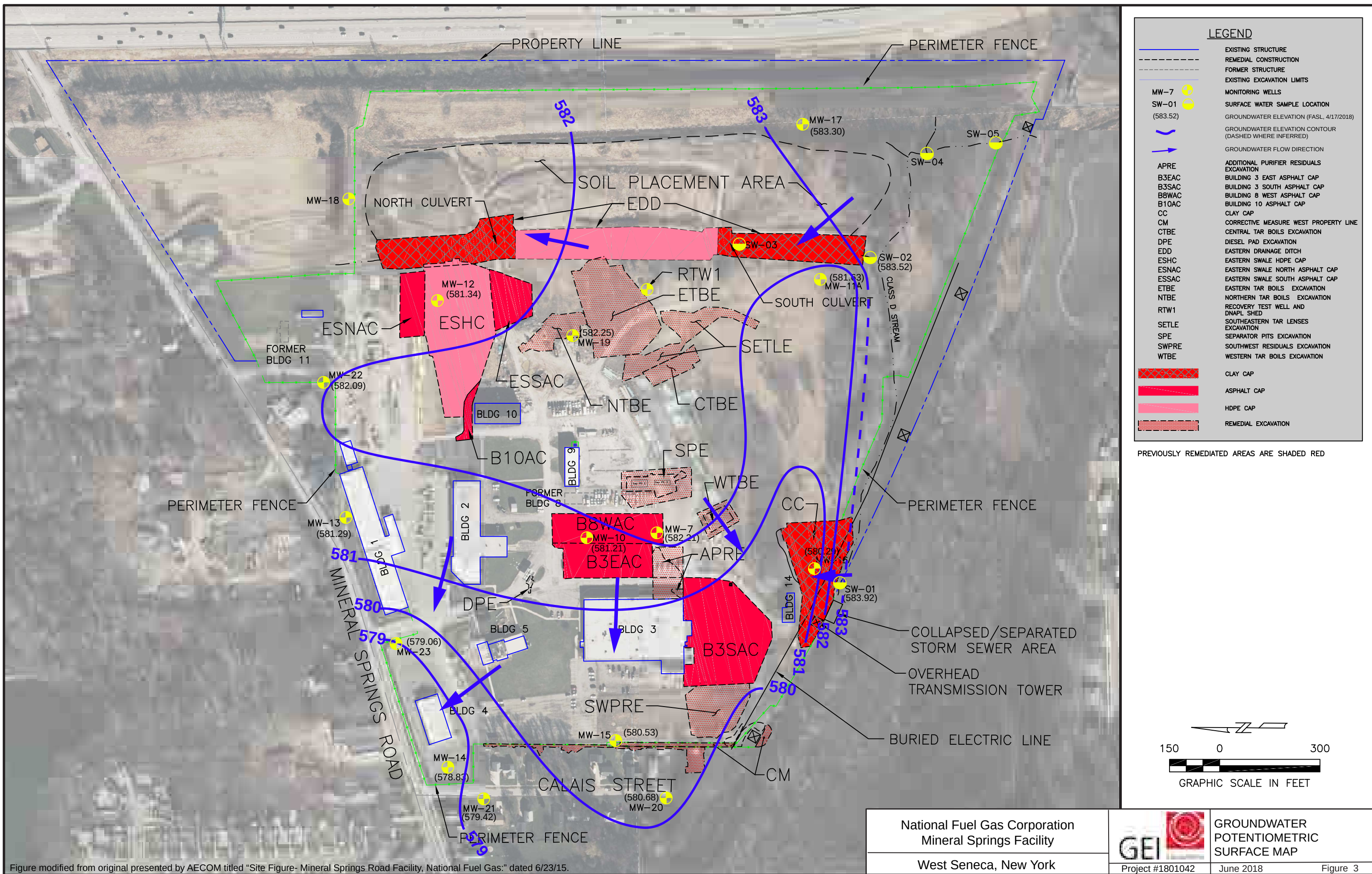


Figure modified from original presented by AECOM titled "Site Figure- Mineral Springs Road Facility, National Fuel Gas:" dated 6/23/15.

Appendix A

Test America Laboratory Data Package

ANALYTICAL REPORT

Job Number: 480-134358-1

SDG Number: 480-134358-1

Job Description: Mineral Springs - Semi Annual

Sampling Event: Semi Annual Sampling (April)

For:

GEI Consultants, Inc.

90B John Muir Drive

Suite 104

Amherst, NY 14228

Attention: Richard Frappa



Approved for release.
Rebecca M Jones
Project Management Assistant I
5/30/2018 11:04 AM

Designee for
John R Schove, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9838
john.schove@testamericainc.com
05/30/2018
Revision: 1

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

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**Job Narrative
480-134358-1**

Revision II

This report has been revised to include results for TDS for sample SW-04 (480-134444-9).

Revision

This report has been revised to include results for sample SW-04 (480-134444-9).

Receipt

The samples were received on 4/17/2018 3:35 PM and 4/18/2018 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 4.9° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-19 (480-134444-5), MW-07 (480-134358-6), (480-134358-E-6 MS) and (480-134358-E-6 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-17 (480-134444-1) and MW-11A (480-134444-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-19 (480-134444-5). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method(s) 8270D_LL_PAH: The following sample required a dilution due to the nature of the sample matrix: MW-07 (480-134358-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D_LL_PAH: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-19 (480-134444-5), MW-07 (480-134358-6). Elevated reporting limits (RLs) are provided.

Method(s) 8270D_LL_PAH: The following samples required a dilution due to the abundance of target analytes: MW-19 (480-134444-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

General Chemistry

Method(s) SM 2540C: The following sample was diluted due to the nature of the sample matrix: SW-04 (480-134444-9). Elevated reporting limits (RLs) are provided.

Method(s) SM 2540C: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to original result being over range and insufficient number of weighings. Both sets of data are reported: SW-04 (480-134444-9).

Method(s) SM 2540C: The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. Also there was a non-compliance of only one weighing cycle. SW-04 (480-134444-9) and (480-134444-A-9 DU)

Method(s) SM 2540C: The sample was outside of calibration range of SW-04 (480-134444-9). A reanalysis was performed and reported.

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

Organic Prep

Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-07 (480-134358-6). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-409870.

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

SAMPLE SUMMARY

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-134358-1	MW-13	Ground Water	04/17/2018 1030	04/17/2018 1535
480-134358-2	MW-23	Ground Water	04/17/2018 0940	04/17/2018 1535
480-134358-3	MW-14	Ground Water	04/17/2018 1125	04/17/2018 1535
480-134358-4	MW-20	Ground Water	04/17/2018 1230	04/17/2018 1535
480-134358-5	MW-21	Ground Water	04/17/2018 1415	04/17/2018 1535
480-134358-6	MW-07	Ground Water	04/17/2018 1335	04/17/2018 1535
480-134358-7	MW-10	Ground Water	04/17/2018 1235	04/17/2018 1535
480-134358-8TB	TB	Water	04/17/2018 0000	04/17/2018 1535
480-134358-9	MW-16	Ground Water	04/17/2018 1415	04/17/2018 1535
480-134444-1	MW-17	Ground Water	04/18/2018 1325	04/18/2018 1540
480-134444-2	MW-22	Ground Water	04/18/2018 0915	04/18/2018 1540
480-134444-3	MW-12	Ground Water	04/18/2018 0855	04/18/2018 1540
480-134444-4	MW-11A	Ground Water	04/18/2018 1040	04/18/2018 1540
480-134444-5	MW-19	Ground Water	04/18/2018 1035	04/18/2018 1540
480-134444-6	SW-01	Surface Water	04/18/2018 1415	04/18/2018 1540
480-134444-7	SW-02	Surface Water	04/18/2018 1130	04/18/2018 1540
480-134444-8	SW-03	Surface Water	04/18/2018 1205	04/18/2018 1540
480-134444-9	SW-04	Surface Water	04/18/2018 1345	04/18/2018 1540
480-134444-10	SW-05	Surface Water	04/18/2018 1305	04/18/2018 1540
480-134444-11	Duplicate	Ground Water	04/18/2018 0000	04/18/2018 1540
480-134444-12EB	EB	Water	04/18/2018 1100	04/18/2018 1540
480-134444-14TB	TB	Water	04/18/2018 0000	04/18/2018 1540

EXECUTIVE SUMMARY - Detections

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-134358-1 Cyanide, Total	MW-13	0.011		0.010	mg/L	9012B
480-134358-2 Benzo(a)pyrene	MW-23	0.33	J	0.50	ug/L	8270D_LL_PAH
Benzo(b)fluoranthene		0.53		0.50	ug/L	8270D_LL_PAH
Benzo(g,h,i)perylene		0.38	J	0.50	ug/L	8270D_LL_PAH
Benzo(k)fluoranthene		0.24	J	0.50	ug/L	8270D_LL_PAH
Chrysene		0.33	J	0.50	ug/L	8270D_LL_PAH
Fluoranthene		0.61		0.50	ug/L	8270D_LL_PAH
Pyrene		0.48	J	0.50	ug/L	8270D_LL_PAH
Cyanide, Total		0.41		0.010	mg/L	9012B
480-134358-3 Cyanide, Total	MW-14	0.52		0.020	mg/L	9012B
480-134358-4 Cyanide, Total	MW-20	0.60		0.050	mg/L	9012B
480-134358-5 Cyanide, Total	MW-21	0.71		0.020	mg/L	9012B
480-134358-6 Benzene	MW-07	840		20	ug/L	8260C
Ethylbenzene		1800	F1	20	ug/L	8260C
Toluene		36		20	ug/L	8260C
Xylenes, Total		1100		40	ug/L	8260C
2-Methylnaphthalene		260		250	ug/L	8270D_LL_PAH
Acenaphthene		150	J	250	ug/L	8270D_LL_PAH
Naphthalene		3200		250	ug/L	8270D_LL_PAH

EXECUTIVE SUMMARY - Detections

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-134358-7	MW-10					
Benzo(a)pyrene		0.65		0.50	ug/L	8270D_LL_PAH
Benzo(b)fluoranthene		1.8		0.50	ug/L	8270D_LL_PAH
Benzo(g,h,i)perylene		0.71		0.50	ug/L	8270D_LL_PAH
Benzo(k)fluoranthene		0.51		0.50	ug/L	8270D_LL_PAH
Chrysene		1.6		0.50	ug/L	8270D_LL_PAH
Fluoranthene		4.0		0.50	ug/L	8270D_LL_PAH
Indeno(1,2,3-cd)pyrene		0.64		0.50	ug/L	8270D_LL_PAH
Phenanthrene		3.3		0.50	ug/L	8270D_LL_PAH
Pyrene		2.0		0.50	ug/L	8270D_LL_PAH
480-134358-9	MW-16					
Cyanide, Total		1.9		0.10	mg/L	9012B
Cyanide, Free		18.1	F1	5.0	ug/L	9016
480-134444-1	MW-17					
Cyanide, Total		0.11		0.010	mg/L	9012B
480-134444-2	MW-22					
Cyanide, Total		0.44		0.020	mg/L	9012B
480-134444-3	MW-12					
Cyanide, Total		0.81		0.020	mg/L	9012B
Cyanide, Free		3.1	J	5.0	ug/L	9016
480-134444-4	MW-11A					
Benzene		4.2		4.0	ug/L	8260C
Acenaphthene		1.2		0.50	ug/L	8270D_LL_PAH
Acenaphthylene		0.37	J	0.50	ug/L	8270D_LL_PAH
Cyanide, Total		0.23		0.010	mg/L	9012B
Total Dissolved Solids		702		10.0	mg/L	SM 2540C
Total Suspended Solids		32.4		4.0	mg/L	SM 2540D
480-134444-5	MW-19					
Benzene		5400		100	ug/L	8260C
Ethylbenzene		600		100	ug/L	8260C
Naphthalene		4700		130	ug/L	8270D_LL_PAH

EXECUTIVE SUMMARY - Detections

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-134444-6	SW-01					
Naphthalene		2.2		0.50	ug/L	8270D_LL_PAH
Cyanide, Total		0.063		0.010	mg/L	9012B
Cyanide, Free		5.1		5.0	ug/L	9016
Total Dissolved Solids		824		10.0	mg/L	SM 2540C
480-134444-7	SW-02					
Benzo(b)fluoranthene		0.57		0.50	ug/L	8270D_LL_PAH
Chrysene		0.50		0.50	ug/L	8270D_LL_PAH
Fluoranthene		0.81		0.50	ug/L	8270D_LL_PAH
Pyrene		0.58		0.50	ug/L	8270D_LL_PAH
Cyanide, Total		0.13		0.010	mg/L	9012B
Cyanide, Free		7.1		5.0	ug/L	9016
Total Dissolved Solids		366		10.0	mg/L	SM 2540C
Total Suspended Solids		32.4		4.0	mg/L	SM 2540D
480-134444-8	SW-03					
Cyanide, Total		0.24		0.010	mg/L	9012B
Cyanide, Free		16.6		5.0	ug/L	9016
Total Dissolved Solids		411		10.0	mg/L	SM 2540C
Total Suspended Solids		4.4		4.0	mg/L	SM 2540D
480-134444-9	SW-04					
Cyanide, Total		0.0095	J	0.010	mg/L	9012B
Total Dissolved Solids		1960	H	40.0	mg/L	SM 2540C
Total Suspended Solids		9.6		4.0	mg/L	SM 2540D
480-134444-10	SW-05					
Total Dissolved Solids		863		10.0	mg/L	SM 2540C
Total Suspended Solids		6.8		4.0	mg/L	SM 2540D
480-134444-11	DUPLICATE					
Benzene		4.5		1.0	ug/L	8260C
Acenaphthene		1.3		0.50	ug/L	8270D_LL_PAH
Acenaphthylene		0.47	J	0.50	ug/L	8270D_LL_PAH
Naphthalene		1.2		0.50	ug/L	8270D_LL_PAH
Pyrene		0.36	J	0.50	ug/L	8270D_LL_PAH
Cyanide, Total		0.24		0.010	mg/L	9012B

METHOD SUMMARY

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Description	Lab Location	Method	Preparation Method
Matrix: Ground Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Semivolatile Organic Compounds (GC/MS) Low level PAH	TAL BUF	SW846 8270D_LL_PAH	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Cyanide, Total and/or Amenable	TAL BUF	SW846 9012B	
Cyanide, Total and/or Amenable, Distillation	TAL BUF		SW846 9012B
Solids, Total Dissolved (TDS)	TAL BUF	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL BUF	SM SM 2540D	
Cyanide, Free	TAL EDI	SW846 9016	
Cyanide, Preparation	TAL EDI		SW846 9016
Matrix: Surface Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Semivolatile Organic Compounds (GC/MS) Low level PAH	TAL BUF	SW846 8270D_LL_PAH	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Cyanide, Total and/or Amenable	TAL BUF	SW846 9012B	
Cyanide, Total and/or Amenable, Distillation	TAL BUF		SW846 9012B
Solids, Total Dissolved (TDS)	TAL BUF	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL BUF	SM SM 2540D	
Cyanide, Free	TAL EDI	SW846 9016	
Cyanide, Preparation	TAL EDI		SW846 9016
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Semivolatile Organic Compounds (GC/MS) Low level PAH	TAL BUF	SW846 8270D_LL_PAH	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Cyanide, Total and/or Amenable	TAL BUF	SW846 9012B	
Cyanide, Total and/or Amenable, Distillation	TAL BUF		SW846 9012B
Cyanide, Free	TAL EDI	SW846 9016	
Cyanide, Preparation	TAL EDI		SW846 9016

Lab References:

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method	Analyst	Analyst ID
SW846 8260C	Nowak, Kate-Lynn M	KMN
SW846 8260C	Reile, Rebecca S	RRS
SW846 8270D_LL_PAH	Quirk, Patrick J	PJQ
SW846 8270D_LL_PAH	Schick, Robert J	RJS
SW846 9012B	Foster, Michelle R	MRF
SW846 9016	Tewira, Jovan X	JXT
SM SM 2540C	Boafo-Asare, Emmanuel K	EKB
SM SM 2540C	Cherizard, Claude-Marthe D	CDC
SM SM 2540D	Bennett, Mark A	MAB
SM SM 2540D	Hasenauer, Samuel M	SMH

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-13

Lab Sample ID: 480-134358-1

Date Sampled: 04/17/2018 1030

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410900	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4939.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 0348			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 0348				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-23

Lab Sample ID: 480-134358-2

Client Matrix: Ground Water

Date Sampled: 04/17/2018 0940

Date Received: 04/17/2018 1535

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410900	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4940.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 0413			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 0413				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-07

Lab Sample ID: 480-134358-6

Client Matrix: Ground Water

Date Sampled: 04/17/2018 1335

Date Received: 04/17/2018 1535

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410900	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4941.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 0439			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 0439				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	840		8.2	20
Ethylbenzene	1800	F1	15	20
Toluene	36		10	20
Xylenes, Total	1100		13	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	105		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-10

Lab Sample ID: 480-134358-7

Date Sampled: 04/17/2018 1235

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410900	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4942.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 0504			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 0504				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123
Toluene-d8 (Surr)	103		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: TB

Lab Sample ID: 480-134358-8TB

Client Matrix: Water

Date Sampled: 04/17/2018 0000

Date Received: 04/17/2018 1535

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410900	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4943.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 0529			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 0529				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	103		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-17

Lab Sample ID: 480-134444-1

Date Sampled: 04/18/2018 1325

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410957	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4961.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 1459			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 1459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	4.0	U	1.6	4.0
Ethylbenzene	4.0	U	3.0	4.0
Toluene	4.0	U	2.0	4.0
Xylenes, Total	8.0	U	2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-11A

Lab Sample ID: 480-134444-4

Client Matrix: Ground Water

Date Sampled: 04/18/2018 1040

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410957	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4962.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 1524			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 1524				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	4.2		1.6	4.0
Ethylbenzene	4.0	U	3.0	4.0
Toluene	4.0	U	2.0	4.0
Xylenes, Total	8.0	U	2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-19

Lab Sample ID: 480-134444-5

Date Sampled: 04/18/2018 1035

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410957	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4963.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 1549			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 1549				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	5400		41	100
Ethylbenzene	600		74	100
Toluene	100	U	51	100
Xylenes, Total	200	U	66	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	103		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: SW-01

Lab Sample ID: 480-134444-6

Date Sampled: 04/18/2018 1415

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410957	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4964.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 1615			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: SW-02

Lab Sample ID: 480-134444-7

Date Sampled: 04/18/2018 1130

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410957	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4965.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 1640			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 1640				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: Duplicate

Lab Sample ID: 480-134444-11

Date Sampled: 04/18/2018 0000

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-411190	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4993.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/27/2018 0459			Final Weight/Volume:	5 mL
Prep Date:	04/27/2018 0459				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	4.5		0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123
Toluene-d8 (Surr)	102		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: **EB**

Lab Sample ID: 480-134444-12EB

Date Sampled: 04/18/2018 1100

Client Matrix: Water

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410957	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4967.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 1731			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 1731				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	103		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: TB

Lab Sample ID: 480-134444-14TB

Date Sampled: 04/18/2018 0000

Client Matrix: Water

Date Received: 04/18/2018 1540

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-410957	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C4968.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/26/2018 1756			Final Weight/Volume:	5 mL
Prep Date:	04/26/2018 1756				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	103		80 - 120

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-13

Lab Sample ID: 480-134358-1

Date Sampled: 04/17/2018 1030

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-409652	Instrument ID:	HP5973Y
Prep Method:	3510C	Prep Batch:	480-409528	Lab File ID:	Y016994.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/20/2018 0806			Final Weight/Volume:	1 mL
Prep Date:	04/18/2018 1424			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.50	U	0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50	U	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.50	U	0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.50	U	0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	90		48 - 120
Nitrobenzene-d5	78		46 - 120
p-Terphenyl-d14	89		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-23

Lab Sample ID: 480-134358-2

Date Sampled: 04/17/2018 0940

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-409652	Instrument ID:	HP5973Y
Prep Method:	3510C	Prep Batch:	480-409528	Lab File ID:	Y016995.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/20/2018 0834			Final Weight/Volume:	1 mL
Prep Date:	04/18/2018 1424			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.33	J	0.33	0.50
Benzo(b)fluoranthene	0.53		0.30	0.50
Benzo(g,h,i)perylene	0.38	J	0.37	0.50
Benzo(k)fluoranthene	0.24	J	0.085	0.50
Chrysene	0.33	J	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.61		0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.48	J	0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		48 - 120
Nitrobenzene-d5	69		46 - 120
p-Terphenyl-d14	92		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-07

Lab Sample ID: 480-134358-6

Date Sampled: 04/17/2018 1335

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-409652	Instrument ID:	HP5973Y
Prep Method:	3510C	Prep Batch:	480-409528	Lab File ID:	Y016996.D
Dilution:	100			Initial Weight/Volume:	50 mL
Analysis Date:	04/20/2018 0903			Final Weight/Volume:	1 mL
Prep Date:	04/18/2018 1424			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	260		190	250
Acenaphthene	150	J	150	250
Acenaphthylene	250	U	170	250
Anthracene	250	U	200	250
Benzo(a)anthracene	250	U	200	250
Benzo(a)pyrene	250	U	170	250
Benzo(b)fluoranthene	250	U	150	250
Benzo(g,h,i)perylene	250	U	190	250
Benzo(k)fluoranthene	250	U	43	250
Chrysene	250	U	160	250
Dibenz(a,h)anthracene	250	U	170	250
Fluoranthene	250	U	180	250
Fluorene	250	U	190	250
Indeno(1,2,3-cd)pyrene	250	U	220	250
Naphthalene	3200		210	250
Phenanthrene	250	U	190	250
Pyrene	250	U	180	250

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	105		48 - 120
Nitrobenzene-d5	76		46 - 120
p-Terphenyl-d14	83		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-10

Lab Sample ID: 480-134358-7

Date Sampled: 04/17/2018 1235

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-409652	Instrument ID:	HP5973Y
Prep Method:	3510C	Prep Batch:	480-409528	Lab File ID:	Y016997.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/20/2018 0932			Final Weight/Volume:	1 mL
Prep Date:	04/18/2018 1424			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.65		0.33	0.50
Benzo(b)fluoranthene	1.8		0.30	0.50
Benzo(g,h,i)perylene	0.71		0.37	0.50
Benzo(k)fluoranthene	0.51		0.085	0.50
Chrysene	1.6		0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	4.0		0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.64		0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	3.3		0.38	0.50
Pyrene	2.0		0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	95		48 - 120
Nitrobenzene-d5	82		46 - 120
p-Terphenyl-d14	103		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-17

Lab Sample ID: 480-134444-1

Date Sampled: 04/18/2018 1325

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-410140	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-409870	Lab File ID:	W3518.D
Dilution:	1.0			Initial Weight/Volume:	230 mL
Analysis Date:	04/21/2018 2322			Final Weight/Volume:	1 mL
Prep Date:	04/20/2018 0809			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.54	U	0.41	0.54
Acenaphthene	0.54	U	0.33	0.54
Acenaphthylene	0.54	U	0.37	0.54
Anthracene	0.54	U	0.42	0.54
Benzo(a)anthracene	0.54	U	0.43	0.54
Benzo(a)pyrene	0.54	U	0.36	0.54
Benzo(b)fluoranthene	0.54	U	0.33	0.54
Benzo(g,h,i)perylene	0.54	U	0.40	0.54
Benzo(k)fluoranthene	0.54	U	0.092	0.54
Chrysene	0.54	U	0.35	0.54
Dibenz(a,h)anthracene	0.54	U	0.36	0.54
Fluoranthene	0.54	U	0.39	0.54
Fluorene	0.54	U	0.40	0.54
Indeno(1,2,3-cd)pyrene	0.54	U	0.48	0.54
Naphthalene	0.54	U	0.46	0.54
Phenanthrene	0.54	U	0.41	0.54
Pyrene	0.54	U	0.39	0.54

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	94		48 - 120
Nitrobenzene-d5	84		46 - 120
p-Terphenyl-d14	85		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-11A

Lab Sample ID: 480-134444-4

Date Sampled: 04/18/2018 1040

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-410140	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-409870	Lab File ID:	W3519.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/21/2018 2351			Final Weight/Volume:	1 mL
Prep Date:	04/20/2018 0809			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	1.2		0.30	0.50
Acenaphthylene	0.37	J	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.50	U	0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50	U	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.50	U	0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.50	U	0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	90		48 - 120
Nitrobenzene-d5	83		46 - 120
p-Terphenyl-d14	79		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: MW-19

Lab Sample ID: 480-134444-5

Date Sampled: 04/18/2018 1035

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-410140	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-409870	Lab File ID:	W3520.D
Dilution:	250			Initial Weight/Volume:	240 mL
Analysis Date:	04/22/2018 0019			Final Weight/Volume:	1 mL
Prep Date:	04/20/2018 0809			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	130	U	99	130
Acenaphthene	130	U	78	130
Acenaphthylene	130	U	89	130
Anthracene	130	U	100	130
Benzo(a)anthracene	130	U	100	130
Benzo(a)pyrene	130	U	86	130
Benzo(b)fluoranthene	130	U	78	130
Benzo(g,h,i)perylene	130	U	96	130
Benzo(k)fluoranthene	130	U	22	130
Chrysene	130	U	83	130
Dibenz(a,h)anthracene	130	U	86	130
Fluoranthene	130	U	94	130
Fluorene	130	U	96	130
Indeno(1,2,3-cd)pyrene	130	U	110	130
Naphthalene	4700		110	130
Phenanthrene	130	U	99	130
Pyrene	130	U	94	130

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	99		48 - 120
Nitrobenzene-d5	107		46 - 120
p-Terphenyl-d14	70		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: SW-01

Lab Sample ID: 480-134444-6

Date Sampled: 04/18/2018 1415

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-410140	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-409870	Lab File ID:	W3521.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/22/2018 0047			Final Weight/Volume:	1 mL
Prep Date:	04/20/2018 0809			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.50	U	0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50	U	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.50	U	0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	2.2		0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.50	U	0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	98		48 - 120
Nitrobenzene-d5	89		46 - 120
p-Terphenyl-d14	87		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: SW-02

Lab Sample ID: 480-134444-7

Date Sampled: 04/18/2018 1130

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-410140	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-409870	Lab File ID:	W3522.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/22/2018 0115			Final Weight/Volume:	1 mL
Prep Date:	04/20/2018 0809			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.57		0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50		0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.81		0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.58		0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	94		48 - 120
Nitrobenzene-d5	86		46 - 120
p-Terphenyl-d14	87		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: Duplicate

Lab Sample ID: 480-134444-11

Date Sampled: 04/18/2018 0000

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-410190	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-409870	Lab File ID:	W3532.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/22/2018 1435			Final Weight/Volume:	1 mL
Prep Date:	04/20/2018 0809			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	1.3		0.30	0.50
Acenaphthylene	0.47	J	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.50	U	0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50	U	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.50	U	0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	1.2		0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.36	J	0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		48 - 120
Nitrobenzene-d5	74		46 - 120
p-Terphenyl-d14	86		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Client Sample ID: EB

Lab Sample ID: 480-134444-12EB

Date Sampled: 04/18/2018 1100

Client Matrix: Water

Date Received: 04/18/2018 1540

8270D_LL_PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Analysis Method:	8270D_LL_PAH	Analysis Batch:	480-410140	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-409870	Lab File ID:	W3524.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/22/2018 0212			Final Weight/Volume:	1 mL
Prep Date:	04/20/2018 0809			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.50	U	0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50	U	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.50	U	0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.50	U	0.36	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	96		48 - 120
Nitrobenzene-d5	86		46 - 120
p-Terphenyl-d14	101		24 - 136

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-13

Lab Sample ID: 480-134358-1

Date Sampled: 04/17/2018 1030

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.011		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411719	Analysis Date: 04/30/2018	1745				
	Prep Batch: 480-411703	Prep Date: 04/30/2018	1325				
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018	1530				
	Prep Batch: 460-513896	Prep Date: 04/25/2018	0457				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-23

Lab Sample ID: 480-134358-2

Date Sampled: 04/17/2018 0940

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.41		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411719	Analysis Date: 04/30/2018 1746					
	Prep Batch: 480-411703	Prep Date: 04/30/2018 1325					
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-14

Lab Sample ID: 480-134358-3

Date Sampled: 04/17/2018 1125

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.52		mg/L	0.010	0.020	2.0	9012B
	Analysis Batch: 480-411719	Analysis Date: 04/30/2018	1759				
	Prep Batch: 480-411703	Prep Date: 04/30/2018	1325				
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018	1530				
	Prep Batch: 460-513896	Prep Date: 04/25/2018	0457				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-20

Lab Sample ID: 480-134358-4

Date Sampled: 04/17/2018 1230

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.60		mg/L	0.025	0.050	5.0	9012B
	Analysis Batch: 480-411719	Analysis Date: 04/30/2018 1801					
	Prep Batch: 480-411703	Prep Date: 04/30/2018 1325					
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-21

Lab Sample ID: 480-134358-5

Date Sampled: 04/17/2018 1415

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.71		mg/L	0.010	0.020	2.0	9012B
	Analysis Batch: 480-411719	Analysis Date: 04/30/2018 1802					
	Prep Batch: 480-411703	Prep Date: 04/30/2018 1325					
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-16

Lab Sample ID: 480-134358-9

Date Sampled: 04/17/2018 1415

Client Matrix: Ground Water

Date Received: 04/17/2018 1535

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	1.9		mg/L	0.050	0.10	10	9012B
	Analysis Batch: 480-411719		Analysis Date: 04/30/2018 1803				
	Prep Batch: 480-411703		Prep Date: 04/30/2018 1325				
Cyanide, Free	18.1	F1	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046		Analysis Date: 04/25/2018 1530				
	Prep Batch: 460-513974		Prep Date: 04/25/2018 0751				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-17

Lab Sample ID: 480-134444-1

Date Sampled: 04/18/2018 1325

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.11		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018 2045					
	Prep Batch: 480-411979	Prep Date: 05/01/2018 1807					
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-22

Lab Sample ID: 480-134444-2

Date Sampled: 04/18/2018 0915

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.44		mg/L	0.010	0.020	2.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018 2111					
	Prep Batch: 480-411979	Prep Date: 05/01/2018 1807					
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-12

Lab Sample ID: 480-134444-3

Date Sampled: 04/18/2018 0855

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.81		mg/L	0.010	0.020	2.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018 2113					
	Prep Batch: 480-411979	Prep Date: 05/01/2018 1807					
Cyanide, Free	3.1	J	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: MW-11A

Lab Sample ID: 480-134444-4

Date Sampled: 04/18/2018 1040

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.23		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985		Analysis Date: 05/01/2018 2053				
	Prep Batch: 480-411979		Prep Date: 05/01/2018 1807				
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046		Analysis Date: 04/25/2018 1530				
	Prep Batch: 460-513896		Prep Date: 04/25/2018 0457				
Total Dissolved Solids	702		mg/L	4.0	10.0	1.0	SM 2540C
	Analysis Batch: 480-410919		Analysis Date: 04/25/2018 1930				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Suspended Solids	32.4		mg/L	4.0	4.0	1.0	SM 2540D
	Analysis Batch: 480-410389		Analysis Date: 04/23/2018 1600				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: SW-01

Lab Sample ID: 480-134444-6

Date Sampled: 04/18/2018 1415

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.063		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018	2054				
	Prep Batch: 480-411979	Prep Date: 05/01/2018	1807				
Cyanide, Free	5.1		ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018	1530				
	Prep Batch: 460-513896	Prep Date: 04/25/2018	0457				
Total Dissolved Solids	824		mg/L	4.0	10.0	1.0	SM 2540C
	Analysis Batch: 480-410919	Analysis Date: 04/25/2018	1930				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Suspended Solids	4.0	U	mg/L	4.0	4.0	1.0	SM 2540D
	Analysis Batch: 480-410389	Analysis Date: 04/23/2018	1600				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: SW-02

Lab Sample ID: 480-134444-7

Date Sampled: 04/18/2018 1130

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.13		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018	2055				
	Prep Batch: 480-411979	Prep Date: 05/01/2018	1807				
Cyanide, Free	7.1		ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018	1530				
	Prep Batch: 460-513896	Prep Date: 04/25/2018	0457				
Total Dissolved Solids	366		mg/L	4.0	10.0	1.0	SM 2540C
	Analysis Batch: 480-410919	Analysis Date: 04/25/2018	1930				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Suspended Solids	32.4		mg/L	4.0	4.0	1.0	SM 2540D
	Analysis Batch: 480-410389	Analysis Date: 04/23/2018	1600				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: SW-03

Lab Sample ID: 480-134444-8

Date Sampled: 04/18/2018 1205

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.24		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985		Analysis Date: 05/01/2018 2057				
	Prep Batch: 480-411979		Prep Date: 05/01/2018 1807				
Cyanide, Free	16.6		ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046		Analysis Date: 04/25/2018 1530				
	Prep Batch: 460-513896		Prep Date: 04/25/2018 0457				
Total Dissolved Solids	411		mg/L	4.0	10.0	1.0	SM 2540C
	Analysis Batch: 480-410919		Analysis Date: 04/25/2018 1930				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Suspended Solids	4.4		mg/L	4.0	4.0	1.0	SM 2540D
	Analysis Batch: 480-410389		Analysis Date: 04/23/2018 1600				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: SW-04

Lab Sample ID: 480-134444-9

Date Sampled: 04/18/2018 1345

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.0095	J	mg/L	0.0050	0.010	1.0	9012B
Analysis Batch: 480-411985 Analysis Date: 05/01/2018 2058							
Prep Batch: 480-411979 Prep Date: 05/01/2018 1807							
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
Analysis Batch: 460-514046 Analysis Date: 04/25/2018 1530							
Prep Batch: 460-513896 Prep Date: 04/25/2018 0457							
Total Dissolved Solids	2210	E	mg/L	4.0	10.0	1.0	SM 2540C
Analysis Batch: 480-410919 Analysis Date: 04/25/2018 1930							
Total Dissolved Solids	1960	H	mg/L	16.0	40.0	1.0	SM 2540C
Run Type:RA	Analysis Batch: 480-415058 Analysis Date: 05/17/2018 1821						
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Suspended Solids	9.6		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 480-410680 Analysis Date: 04/24/2018 2002							

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry**Client Sample ID: SW-05**

Lab Sample ID: 480-134444-10

Date Sampled: 04/18/2018 1305

Client Matrix: Surface Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010	U	mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018	2100				
	Prep Batch: 480-411979	Prep Date: 05/01/2018	1807				
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018	1530				
	Prep Batch: 460-513896	Prep Date: 04/25/2018	0457				
Total Dissolved Solids	863		mg/L	4.0	10.0	1.0	SM 2540C
	Analysis Batch: 480-410919	Analysis Date: 04/25/2018	1930				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Suspended Solids	6.8		mg/L	4.0	4.0	1.0	SM 2540D
	Analysis Batch: 480-410680	Analysis Date: 04/24/2018	2002				

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: Duplicate

Lab Sample ID: 480-134444-11

Date Sampled: 04/18/2018 0000

Client Matrix: Ground Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.24		mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018 2101					
	Prep Batch: 480-411979	Prep Date: 05/01/2018 1807					
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

General Chemistry

Client Sample ID: EB

Lab Sample ID: 480-134444-12EB

Date Sampled: 04/18/2018 1100

Client Matrix: Water

Date Received: 04/18/2018 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010	U	mg/L	0.0050	0.010	1.0	9012B
	Analysis Batch: 480-411985	Analysis Date: 05/01/2018 2103					
	Prep Batch: 480-411979	Prep Date: 05/01/2018 1807					
Cyanide, Free	5.0	U	ug/L	1.5	5.0	1.0	9016
	Analysis Batch: 460-514046	Analysis Date: 04/25/2018 1530					
	Prep Batch: 460-513896	Prep Date: 04/25/2018 0457					

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-134358-1	MW-13	101	96	101	102
480-134358-2	MW-23	102	99	101	98
480-134358-6	MW-07	103	103	105	102
480-134358-7	MW-10	104	100	103	100
480-134358-8	TB	103	98	103	102
480-134444-1	MW-17	101	98	101	101
480-134444-4	MW-11A	99	93	101	100
480-134444-5	MW-19	103	102	103	104
480-134444-6	SW-01	102	100	101	101
480-134444-7	SW-02	106	103	101	100
480-134444-11	Duplicate	105	102	102	100
480-134444-12	EB	108	104	103	100
480-134444-14	TB	100	100	103	100
MB 480-410900/6		103	104	102	99
MB 480-410957/7		102	102	101	99
MB 480-411190/6		102	103	101	100
LCS 480-410900/4		104	102	101	100
LCS 480-410957/5		103	100	100	98
LCS 480-411190/4		103	100	100	102
480-134358-6 MS	MW-07 MS	108	105	101	100
480-134358-6 MSD	MW-07 MSD	104	97	103	102

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Surrogate Recovery Report

8270D LL PAH Semivolatile Organic Compounds (GC/MS) Low level PAH

Client Matrix: Water

Lab Sample ID	Client Sample ID	NBZ %Rec	FBP %Rec	TPHd14 %Rec
480-134358-1	MW-13	78	90	89
480-134358-2	MW-23	69	81	92
480-134358-6	MW-07	76	105	83
480-134358-7	MW-10	82	95	103
480-134444-1	MW-17	84	94	85
480-134444-4	MW-11A	83	90	79
480-134444-5	MW-19	107	99	70
480-134444-6	SW-01	89	98	87
480-134444-7	SW-02	86	94	87
480-134444-11	Duplicate	74	83	86
480-134444-12	EB	86	96	101
MB 480-409528/1-A		86	98	104
MB 480-409870/1-A		94	99	109
LCS 480-409528/2-A		86	90	102
LCS 480-409870/2-A		97	96	104
LCSD 480-409528/3-A		88	90	101
LCSD 480-409870/3-A		97	98	103

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TPHd14 = p-Terphenyl-d14	24-136

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-410900

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-410900/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/25/2018 2229
Prep Date: 04/25/2018 2229
Leach Date: N/A

Analysis Batch: 480-410900
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C4927.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	77 - 120
4-Bromofluorobenzene (Surr)	99	73 - 120
Dibromofluoromethane (Surr)	103	75 - 123
Toluene-d8 (Surr)	102	80 - 120

Lab Control Sample - Batch: 480-410900

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 480-410900/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/25/2018 2114
Prep Date: 04/25/2018 2114
Leach Date: N/A

Analysis Batch: 480-410900
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C4925.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	25.0	27.3	109	71 - 124	
Ethylbenzene	25.0	26.3	105	77 - 123	
Toluene	25.0	26.2	105	80 - 122	
Xylenes, Total	50.0	54.7	109	76 - 122	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	77 - 120
4-Bromofluorobenzene (Surr)	100	73 - 120
Dibromofluoromethane (Surr)	104	75 - 123
Toluene-d8 (Surr)	101	80 - 120

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-410900

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-134358-6
Client Matrix: Water
Dilution: 20
Analysis Date: 04/26/2018 0554
Prep Date: 04/26/2018 0554
Leach Date: N/A

Analysis Batch: 480-410900
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973C
Lab File ID: C4944.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

MSD Lab Sample ID: 480-134358-6
Client Matrix: Water
Dilution: 20
Analysis Date: 04/26/2018 0620
Prep Date: 04/26/2018 0620
Leach Date: N/A

Analysis Batch: 480-410900
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973C
Lab File ID: C4945.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	98	77	71 - 124	8	13		
Ethylbenzene	21	16	77 - 123	1	15	F1	F1
Toluene	116	114	80 - 122	2	15		
Xylenes, Total	95	92	76 - 122	2	16		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	105		97	77 - 120			
4-Bromofluorobenzene (Surr)	100		102	73 - 120			
Dibromofluoromethane (Surr)	108		104	75 - 123			
Toluene-d8 (Surr)	101		103	80 - 120			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-410900

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-134358-6
Client Matrix: Water
Dilution: 20
Analysis Date: 04/26/2018 0554
Prep Date: 04/26/2018 0554
Leach Date: N/A

Units: ug/L

MSD Lab Sample ID: 480-134358-6
Client Matrix: Water
Dilution: 20
Analysis Date: 04/26/2018 0620
Prep Date: 04/26/2018 0620
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	840	500	500	1330	1220
Ethylbenzene	1800	500	500	1860 F1	1830 F1
Toluene	36	500	500	618	604
Xylenes, Total	1100	1000	1000	2000	1970

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-410957

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-410957/7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/26/2018 1058
Prep Date: 04/26/2018 1058
Leach Date: N/A

Analysis Batch: 480-410957
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C4952.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	77 - 120
4-Bromofluorobenzene (Surr)	99	73 - 120
Dibromofluoromethane (Surr)	102	75 - 123
Toluene-d8 (Surr)	101	80 - 120

Lab Control Sample - Batch: 480-410957

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 480-410957/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/26/2018 1008
Prep Date: 04/26/2018 1008
Leach Date: N/A

Analysis Batch: 480-410957
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C4950.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	25.0	24.8	99	71 - 124	
Ethylbenzene	25.0	23.9	96	77 - 123	
Toluene	25.0	24.2	97	80 - 122	
Xylenes, Total	50.0	50.0	100	76 - 122	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	77 - 120
4-Bromofluorobenzene (Surr)	98	73 - 120
Dibromofluoromethane (Surr)	103	75 - 123
Toluene-d8 (Surr)	100	80 - 120

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-411190

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-411190/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/26/2018 2227
Prep Date: 04/26/2018 2227
Leach Date: N/A

Analysis Batch: 480-411190
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C4978.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.0	U	0.41	1.0
Ethylbenzene	1.0	U	0.74	1.0
Toluene	1.0	U	0.51	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	77 - 120
4-Bromofluorobenzene (Surr)	100	73 - 120
Dibromofluoromethane (Surr)	102	75 - 123
Toluene-d8 (Surr)	101	80 - 120

Lab Control Sample - Batch: 480-411190

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 480-411190/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/26/2018 2123
Prep Date: 04/26/2018 2123
Leach Date: N/A

Analysis Batch: 480-411190
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C4976.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	25.0	28.0	112	71 - 124	
Ethylbenzene	25.0	27.2	109	77 - 123	
Toluene	25.0	27.0	108	80 - 122	
Xylenes, Total	50.0	56.2	112	76 - 122	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	77 - 120
4-Bromofluorobenzene (Surr)	102	73 - 120
Dibromofluoromethane (Surr)	103	75 - 123
Toluene-d8 (Surr)	100	80 - 120

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-409528

Method: 8270D_LL_PAH

Preparation: 3510C

Lab Sample ID: MB 480-409528/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/20/2018 0639
 Prep Date: 04/18/2018 1424
 Leach Date: N/A

Analysis Batch: 480-409652
 Prep Batch: 480-409528
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973Y
 Lab File ID: Y016991.D
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume: 2 uL

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.50	U	0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50	U	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.50	U	0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.50	U	0.36	0.50

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	98	48 - 120
Nitrobenzene-d5	86	46 - 120
p-Terphenyl-d14	104	24 - 136

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 480-409528

Method: 8270D_LL_PAH

Preparation: 3510C

LCS Lab Sample ID: LCS 480-409528/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/20/2018 0708
 Prep Date: 04/18/2018 1424
 Leach Date: N/A

Analysis Batch: 480-409652
 Prep Batch: 480-409528
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973Y
 Lab File ID: Y016992.D
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume: 2 uL

LCSD Lab Sample ID: LCSD 480-409528/3-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/20/2018 0737
 Prep Date: 04/18/2018 1424
 Leach Date: N/A

Analysis Batch: 480-409652
 Prep Batch: 480-409528
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973Y
 Lab File ID: Y016993.D
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume: 2 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2-Methylnaphthalene	84	85	48 - 120	1	21		
Acenaphthene	89	91	60 - 120	2	24		
Acenaphthylene	92	91	63 - 120	1	18		
Anthracene	96	100	69 - 131	3	15		
Benzo(a)anthracene	102	101	62 - 142	1	15		
Benzo(a)pyrene	99	99	46 - 156	0	15		
Benzo(b)fluoranthene	98	98	50 - 149	0	15		
Benzo(g,h,i)perylene	103	104	34 - 189	1	15		
Benzo(k)fluoranthene	92	94	47 - 147	2	22		
Chrysene	101	100	69 - 140	1	15		
Dibenz(a,h)anthracene	103	104	35 - 176	1	15		
Fluoranthene	101	106	67 - 133	5	15		
Fluorene	93	94	66 - 129	1	15		
Indeno(1,2,3-cd)pyrene	104	104	57 - 161	0	15		
Naphthalene	81	81	48 - 120	1	29		
Phenanthrene	97	99	67 - 130	2	15		
Pyrene	101	98	58 - 136	3	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2-Fluorobiphenyl	90		90		48 - 120		
Nitrobenzene-d5	86		88		46 - 120		
p-Terphenyl-d14	102		101		24 - 136		

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 480-409528

Method: 8270D_LL_PAH
Preparation: 3510C

LCS Lab Sample ID: LCS 480-409528/2-A Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/20/2018 0708
Prep Date: 04/18/2018 1424
Leach Date: N/A

LCSD Lab Sample ID: LCSD 480-409528/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/20/2018 0737
Prep Date: 04/18/2018 1424
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2-Methylnaphthalene	32.0	32.0	26.9	27.3
Acenaphthene	32.0	32.0	28.4	29.0
Acenaphthylene	32.0	32.0	29.4	29.1
Anthracene	32.0	32.0	30.8	31.9
Benzo(a)anthracene	32.0	32.0	32.6	32.3
Benzo(a)pyrene	32.0	32.0	31.7	31.6
Benzo(b)fluoranthene	32.0	32.0	31.3	31.3
Benzo(g,h,i)perylene	32.0	32.0	32.9	33.1
Benzo(k)fluoranthene	32.0	32.0	29.6	30.2
Chrysene	32.0	32.0	32.4	32.0
Dibenz(a,h)anthracene	32.0	32.0	33.0	33.2
Fluoranthene	32.0	32.0	32.3	34.1
Fluorene	32.0	32.0	29.7	30.1
Indeno(1,2,3-cd)pyrene	32.0	32.0	33.2	33.2
Naphthalene	32.0	32.0	25.8	26.1
Phenanthrene	32.0	32.0	30.9	31.7
Pyrene	32.0	32.0	32.4	31.3

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-409870

Method: 8270D_LL_PAH

Preparation: 3510C

Lab Sample ID: MB 480-409870/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/21/2018 1615
 Prep Date: 04/20/2018 0809
 Leach Date: N/A

Analysis Batch: 480-410140
 Prep Batch: 480-409870
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973W
 Lab File ID: W3503.D
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume: 2 uL

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	0.50	U	0.38	0.50
Acenaphthene	0.50	U	0.30	0.50
Acenaphthylene	0.50	U	0.34	0.50
Anthracene	0.50	U	0.39	0.50
Benzo(a)anthracene	0.50	U	0.40	0.50
Benzo(a)pyrene	0.50	U	0.33	0.50
Benzo(b)fluoranthene	0.50	U	0.30	0.50
Benzo(g,h,i)perylene	0.50	U	0.37	0.50
Benzo(k)fluoranthene	0.50	U	0.085	0.50
Chrysene	0.50	U	0.32	0.50
Dibenz(a,h)anthracene	0.50	U	0.33	0.50
Fluoranthene	0.50	U	0.36	0.50
Fluorene	0.50	U	0.37	0.50
Indeno(1,2,3-cd)pyrene	0.50	U	0.44	0.50
Naphthalene	0.50	U	0.42	0.50
Phenanthrene	0.50	U	0.38	0.50
Pyrene	0.50	U	0.36	0.50

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	99	48 - 120
Nitrobenzene-d5	94	46 - 120
p-Terphenyl-d14	109	24 - 136

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 480-409870

Method: 8270D_LL_PAH

Preparation: 3510C

LCS Lab Sample ID: LCS 480-409870/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/21/2018 1644
Prep Date: 04/20/2018 0809
Leach Date: N/A

Analysis Batch: 480-410140
Prep Batch: 480-409870
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973W
Lab File ID: W3504.D
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume: 2 uL

LCSD Lab Sample ID: LCSD 480-409870/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/21/2018 1713
Prep Date: 04/20/2018 0809
Leach Date: N/A

Analysis Batch: 480-410140
Prep Batch: 480-409870
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973W
Lab File ID: W3505.D
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume: 2 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2-Methylnaphthalene	84	83	48 - 120	1	21		
Acenaphthene	86	87	60 - 120	2	24		
Acenaphthylene	90	92	63 - 120	2	18		
Anthracene	96	97	69 - 131	1	15		
Benzo(a)anthracene	97	98	62 - 142	2	15		
Benzo(a)pyrene	93	93	46 - 156	0	15		
Benzo(b)fluoranthene	96	98	50 - 149	2	15		
Benzo(g,h,i)perylene	97	96	34 - 189	2	15		
Benzo(k)fluoranthene	97	97	47 - 147	0	22		
Chrysene	97	95	69 - 140	2	15		
Dibenz(a,h)anthracene	101	101	35 - 176	1	15		
Fluoranthene	99	99	67 - 133	1	15		
Fluorene	90	92	66 - 129	2	15		
Indeno(1,2,3-cd)pyrene	100	99	57 - 161	1	15		
Naphthalene	85	85	48 - 120	0	29		
Phenanthrene	96	94	67 - 130	2	15		
Pyrene	96	96	58 - 136	0	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2-Fluorobiphenyl	96		98		48 - 120		
Nitrobenzene-d5	97		97		46 - 120		
p-Terphenyl-d14	104		103		24 - 136		

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 480-409870

Method: 8270D_LL_PAH
Preparation: 3510C

LCS Lab Sample ID: LCS 480-409870/2-A Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/21/2018 1644
Prep Date: 04/20/2018 0809
Leach Date: N/A

LCSD Lab Sample ID: LCSD 480-409870/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/21/2018 1713
Prep Date: 04/20/2018 0809
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2-Methylnaphthalene	32.0	32.0	26.8	26.6
Acenaphthene	32.0	32.0	27.4	27.9
Acenaphthylene	32.0	32.0	28.8	29.4
Anthracene	32.0	32.0	30.8	31.0
Benzo(a)anthracene	32.0	32.0	30.9	31.4
Benzo(a)pyrene	32.0	32.0	29.7	29.7
Benzo(b)fluoranthene	32.0	32.0	30.8	31.4
Benzo(g,h,i)perylene	32.0	32.0	31.1	30.6
Benzo(k)fluoranthene	32.0	32.0	31.1	31.2
Chrysene	32.0	32.0	31.0	30.4
Dibenz(a,h)anthracene	32.0	32.0	32.4	32.3
Fluoranthene	32.0	32.0	31.5	31.8
Fluorene	32.0	32.0	28.9	29.4
Indeno(1,2,3-cd)pyrene	32.0	32.0	32.0	31.6
Naphthalene	32.0	32.0	27.2	27.3
Phenanthrene	32.0	32.0	30.7	30.1
Pyrene	32.0	32.0	30.6	30.8

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-411703

Method: 9012B

Preparation: 9012B

Lab Sample ID: MB 480-411703/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/30/2018 1722
Prep Date: 04/30/2018 1325
Leach Date: N/A

Analysis Batch: 480-411719
Prep Batch: 480-411703
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_4-30-2018_05-18-3
Initial Weight/Volume: 6 mL
Final Weight/Volume: 6 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.010	U	0.0050	0.010

Lab Control Sample - Batch: 480-411703

Method: 9012B

Preparation: 9012B

Lab Sample ID: LCS 480-411703/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/30/2018 1723
Prep Date: 04/30/2018 1325
Leach Date: N/A

Analysis Batch: 480-411719
Prep Batch: 480-411703
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_4-30-2018_05-18-3
Initial Weight/Volume: 6 mL
Final Weight/Volume: 6 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.400	0.371	93	90 - 110	

Lab Control Sample - Batch: 480-411703

Method: 9012B

Preparation: 9012B

Lab Sample ID: LCS 480-411703/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/30/2018 1725
Prep Date: 04/30/2018 1325
Leach Date: N/A

Analysis Batch: 480-411719
Prep Batch: 480-411703
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_4-30-2018_05-18-3
Initial Weight/Volume: 6 mL
Final Weight/Volume: 6 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.250	0.251	100	90 - 110	

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-411979

Method: 9012B

Preparation: 9012B

Lab Sample ID: MB 480-411979/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/01/2018 2034
Prep Date: 05/01/2018 1807
Leach Date: N/A

Analysis Batch: 480-411985
Prep Batch: 480-411979
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_5-1-2018_08-30-43
Initial Weight/Volume: 6 mL
Final Weight/Volume: 6 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.010	U	0.0050	0.010

Lab Control Sample - Batch: 480-411979

Method: 9012B

Preparation: 9012B

Lab Sample ID: LCS 480-411979/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 05/01/2018 2035
Prep Date: 05/01/2018 1807
Leach Date: N/A

Analysis Batch: 480-411985
Prep Batch: 480-411979
Leach Batch: N/A
Units: mg/L

Instrument ID: LACHAT2
Lab File ID: OM_5-1-2018_08-30-43
Initial Weight/Volume: 6 mL
Final Weight/Volume: 6 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.250	0.253	101	90 - 110	

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 460-513896

Method: 9016

Preparation: 9016

Lab Sample ID: MB 460-513896/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/25/2018 1530
Prep Date: 04/25/2018 0456
Leach Date: N/A

Analysis Batch: 460-514046
Prep Batch: 460-513896
Leach Batch: N/A
Units: ug/L

Instrument ID: Wet9016
Lab File ID: N/A
Initial Weight/Volume: 3 mL
Final Weight/Volume: 1.3 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Free	5.0	U	1.5	5.0

Lab Control Sample - Batch: 460-513896

Method: 9016

Preparation: 9016

Lab Sample ID: LCS 460-513896/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/25/2018 1530
Prep Date: 04/25/2018 0456
Leach Date: N/A

Analysis Batch: 460-514046
Prep Batch: 460-513896
Leach Batch: N/A
Units: ug/L

Instrument ID: Wet9016
Lab File ID: N/A
Initial Weight/Volume: 3 mL
Final Weight/Volume: 1.3 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Free	50.0	45.07	90	90 - 110	

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 460-513974

Method: 9016

Preparation: 9016

Lab Sample ID:	MB 460-513974/1-A	Analysis Batch:	460-514046	Instrument ID:	Wet9016
Client Matrix:	Water	Prep Batch:	460-513974	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3 mL
Analysis Date:	04/25/2018 1530	Units:	ug/L	Final Weight/Volume:	1.3 mL
Prep Date:	04/25/2018 0751				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cyanide, Free	5.0	U	1.5	5.0

Lab Control Sample - Batch: 460-513974

Method: 9016

Preparation: 9016

Lab Sample ID:	LCS 460-513974/2-A	Analysis Batch:	460-514046	Instrument ID:	Wet9016
Client Matrix:	Water	Prep Batch:	460-513974	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3 mL
Analysis Date:	04/25/2018 1530	Units:	ug/L	Final Weight/Volume:	1.3 mL
Prep Date:	04/25/2018 0751				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Free	50.0	45.07	90	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-513974

Method: 9016

Preparation: 9016

MS Lab Sample ID:	480-134358-9	Analysis Batch:	460-514046	Instrument ID:	Wet9016
Client Matrix:	Water	Prep Batch:	460-513974	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3 mL
Analysis Date:	04/25/2018 1530			Final Weight/Volume:	1.3 mL
Prep Date:	04/25/2018 0751				
Leach Date:	N/A				

MSD Lab Sample ID:	480-134358-9	Analysis Batch:	460-514046	Instrument ID:	Wet9016
Client Matrix:	Water	Prep Batch:	460-513974	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3 mL
Analysis Date:	04/25/2018 1530			Final Weight/Volume:	1.3 mL
Prep Date:	04/25/2018 0751				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyanide, Free	73	67	90 - 110	5	12	F1	F1

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-513974**

**Method: 9016
Preparation: 9016**

MS Lab Sample ID: 480-134358-9 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/25/2018 1530
Prep Date: 04/25/2018 0751
Leach Date: N/A

MSD Lab Sample ID: 480-134358-9
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/25/2018 1530
Prep Date: 04/25/2018 0751
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Free	18.1	50.0	50.0	54.36 F1	51.48 F1

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Detection Limit Check Standard - Batch: 460-514046

Method: 9016

Preparation: N/A

Lab Sample ID: DLCK 460-514046/10

Analysis Batch: 460-514046

Instrument ID: Wet9016

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Leach Batch: N/A

Initial Weight/Volume:

Analysis Date: 04/25/2018 1530

Units: ug/L

Final Weight/Volume: 1 mL

Prep Date: N/A

Leach Date: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Free	2.00	2.00	100	50 - 150	J

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-410919

Method: SM 2540C

Preparation: N/A

Lab Sample ID:	MB 480-410919/1	Analysis Batch:	480-410919	Instrument ID:	Balance-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/25/2018 1930	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Dissolved Solids	10.0	U	4.0	10.0

Lab Control Sample - Batch: 480-410919

Method: SM 2540C

Preparation: N/A

Lab Sample ID:	LCS 480-410919/2	Analysis Batch:	480-410919	Instrument ID:	Balance-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/25/2018 1930	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	503	507.0	101	85 - 115	

Duplicate - Batch: 480-410919

Method: SM 2540C

Preparation: N/A

Lab Sample ID:	480-134444-9	Analysis Batch:	480-410919	Instrument ID:	Balance-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/25/2018 1930	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	2210	2193	0.8	10	E

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-415058

Method: SM 2540C

Preparation: N/A

Lab Sample ID:	MB 480-415058/1	Analysis Batch:	480-415058	Instrument ID:	Balance-15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	05/17/2018 1821	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Dissolved Solids	10.0	U	4.0	10.0

Lab Control Sample - Batch: 480-415058

Method: SM 2540C

Preparation: N/A

Lab Sample ID:	LCS 480-415058/2	Analysis Batch:	480-415058	Instrument ID:	Balance-15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	05/17/2018 1821	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	507	452.0	89	85 - 115	

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-410389

Method: SM 2540D

Preparation: N/A

Lab Sample ID: MB 480-410389/1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/23/2018 1600
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-410389
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: Balance-3
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	RL	RL
Total Suspended Solids	1.0	U	1.0	1.0

Lab Control Sample - Batch: 480-410389

Method: SM 2540D

Preparation: N/A

Lab Sample ID: LCS 480-410389/2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/23/2018 1600
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-410389
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: Balance-3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	256	245.6	96	88 - 110	

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Method Blank - Batch: 480-410680

Method: SM 2540D

Preparation: N/A

Lab Sample ID:	MB 480-410680/1	Analysis Batch:	480-410680	Instrument ID:	Balance-3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/24/2018 2002	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Suspended Solids	1.0	U	1.0	1.0

Lab Control Sample - Batch: 480-410680

Method: SM 2540D

Preparation: N/A

Lab Sample ID:	LCS 480-410680/2	Analysis Batch:	480-410680	Instrument ID:	Balance-3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	04/24/2018 2002	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	308	301.6	98	88 - 110	

DATA REPORTING QUALIFIERS

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-410900					
LCS 480-410900/4	Lab Control Sample	T	Water	8260C	
MB 480-410900/6	Method Blank	T	Water	8260C	
480-134358-1	MW-13	T	Water	8260C	
480-134358-2	MW-23	T	Water	8260C	
480-134358-6	MW-07	T	Water	8260C	
480-134358-6MS	Matrix Spike	T	Water	8260C	
480-134358-6MSD	Matrix Spike Duplicate	T	Water	8260C	
480-134358-7	MW-10	T	Water	8260C	
480-134358-8TB	TB	T	Water	8260C	
Analysis Batch:480-410957					
LCS 480-410957/5	Lab Control Sample	T	Water	8260C	
MB 480-410957/7	Method Blank	T	Water	8260C	
480-134444-1	MW-17	T	Water	8260C	
480-134444-4	MW-11A	T	Water	8260C	
480-134444-5	MW-19	T	Water	8260C	
480-134444-6	SW-01	T	Water	8260C	
480-134444-7	SW-02	T	Water	8260C	
480-134444-12EB	EB	T	Water	8260C	
480-134444-14TB	TB	T	Water	8260C	
Analysis Batch:480-411190					
LCS 480-411190/4	Lab Control Sample	T	Water	8260C	
MB 480-411190/6	Method Blank	T	Water	8260C	
480-134444-11	Duplicate	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 480-409528					
LCS 480-409528/2-A	Lab Control Sample	T	Water	3510C	
LCSD 480-409528/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 480-409528/1-A	Method Blank	T	Water	3510C	
480-134358-1	MW-13	T	Water	3510C	
480-134358-2	MW-23	T	Water	3510C	
480-134358-6	MW-07	T	Water	3510C	
480-134358-7	MW-10	T	Water	3510C	
Analysis Batch:480-409652					
LCS 480-409528/2-A	Lab Control Sample	T	Water	8270D_LL_PAH	480-409528
LCSD 480-409528/3-A	Lab Control Sample Duplicate	T	Water	8270D_LL_PAH	480-409528
MB 480-409528/1-A	Method Blank	T	Water	8270D_LL_PAH	480-409528
480-134358-1	MW-13	T	Water	8270D_LL_PAH	480-409528
480-134358-2	MW-23	T	Water	8270D_LL_PAH	480-409528
480-134358-6	MW-07	T	Water	8270D_LL_PAH	480-409528
480-134358-7	MW-10	T	Water	8270D_LL_PAH	480-409528
Prep Batch: 480-409870					
LCS 480-409870/2-A	Lab Control Sample	T	Water	3510C	
LCSD 480-409870/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 480-409870/1-A	Method Blank	T	Water	3510C	
480-134444-1	MW-17	T	Water	3510C	
480-134444-4	MW-11A	T	Water	3510C	
480-134444-5	MW-19	T	Water	3510C	
480-134444-6	SW-01	T	Water	3510C	
480-134444-7	SW-02	T	Water	3510C	
480-134444-11	Duplicate	T	Water	3510C	
480-134444-12EB	EB	T	Water	3510C	
Analysis Batch:480-410140					
LCS 480-409870/2-A	Lab Control Sample	T	Water	8270D_LL_PAH	480-409870
LCSD 480-409870/3-A	Lab Control Sample Duplicate	T	Water	8270D_LL_PAH	480-409870
MB 480-409870/1-A	Method Blank	T	Water	8270D_LL_PAH	480-409870
480-134444-1	MW-17	T	Water	8270D_LL_PAH	480-409870
480-134444-4	MW-11A	T	Water	8270D_LL_PAH	480-409870
480-134444-5	MW-19	T	Water	8270D_LL_PAH	480-409870
480-134444-6	SW-01	T	Water	8270D_LL_PAH	480-409870
480-134444-7	SW-02	T	Water	8270D_LL_PAH	480-409870
480-134444-12EB	EB	T	Water	8270D_LL_PAH	480-409870
Analysis Batch:480-410190					
480-134444-11	Duplicate	T	Water	8270D_LL_PAH	480-409870

TestAmerica Buffalo

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis

T = Total

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-410389					
LCS 480-410389/2	Lab Control Sample	T	Water	SM 2540D	
MB 480-410389/1	Method Blank	T	Water	SM 2540D	
480-134444-4	MW-11A	T	Water	SM 2540D	
480-134444-6	SW-01	T	Water	SM 2540D	
480-134444-7	SW-02	T	Water	SM 2540D	
480-134444-8	SW-03	T	Water	SM 2540D	
Analysis Batch:480-410680					
LCS 480-410680/2	Lab Control Sample	T	Water	SM 2540D	
MB 480-410680/1	Method Blank	T	Water	SM 2540D	
480-134444-9	SW-04	T	Water	SM 2540D	
480-134444-10	SW-05	T	Water	SM 2540D	
Analysis Batch:480-410919					
LCS 480-410919/2	Lab Control Sample	T	Water	SM 2540C	
MB 480-410919/1	Method Blank	T	Water	SM 2540C	
480-134444-4	MW-11A	T	Water	SM 2540C	
480-134444-6	SW-01	T	Water	SM 2540C	
480-134444-7	SW-02	T	Water	SM 2540C	
480-134444-8	SW-03	T	Water	SM 2540C	
480-134444-9	SW-04	T	Water	SM 2540C	
480-134444-9DU	Duplicate	T	Water	SM 2540C	
480-134444-10	SW-05	T	Water	SM 2540C	
Prep Batch: 480-411703					
LCS 480-411703/2-A	Lab Control Sample	T	Water	9012B	
LCS 480-411703/3-A	Lab Control Sample	T	Water	9012B	
MB 480-411703/1-A	Method Blank	T	Water	9012B	
480-134358-1	MW-13	T	Water	9012B	
480-134358-2	MW-23	T	Water	9012B	
480-134358-3	MW-14	T	Water	9012B	
480-134358-4	MW-20	T	Water	9012B	
480-134358-5	MW-21	T	Water	9012B	
480-134358-9	MW-16	T	Water	9012B	
Analysis Batch:480-411719					
LCS 480-411703/2-A	Lab Control Sample	T	Water	9012B	480-411703
LCS 480-411703/3-A	Lab Control Sample	T	Water	9012B	480-411703
MB 480-411703/1-A	Method Blank	T	Water	9012B	480-411703
480-134358-1	MW-13	T	Water	9012B	480-411703
480-134358-2	MW-23	T	Water	9012B	480-411703
480-134358-3	MW-14	T	Water	9012B	480-411703
480-134358-4	MW-20	T	Water	9012B	480-411703
480-134358-5	MW-21	T	Water	9012B	480-411703
480-134358-9	MW-16	T	Water	9012B	480-411703

TestAmerica Buffalo

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 480-411979					
LCS 480-411979/2-A	Lab Control Sample	T	Water	9012B	
MB 480-411979/1-A	Method Blank	T	Water	9012B	
480-134444-1	MW-17	T	Water	9012B	
480-134444-2	MW-22	T	Water	9012B	
480-134444-3	MW-12	T	Water	9012B	
480-134444-4	MW-11A	T	Water	9012B	
480-134444-6	SW-01	T	Water	9012B	
480-134444-7	SW-02	T	Water	9012B	
480-134444-8	SW-03	T	Water	9012B	
480-134444-9	SW-04	T	Water	9012B	
480-134444-10	SW-05	T	Water	9012B	
480-134444-11	Duplicate	T	Water	9012B	
480-134444-12EB	EB	T	Water	9012B	
Analysis Batch:480-411985					
LCS 480-411979/2-A	Lab Control Sample	T	Water	9012B	480-411979
MB 480-411979/1-A	Method Blank	T	Water	9012B	480-411979
480-134444-1	MW-17	T	Water	9012B	480-411979
480-134444-2	MW-22	T	Water	9012B	480-411979
480-134444-3	MW-12	T	Water	9012B	480-411979
480-134444-4	MW-11A	T	Water	9012B	480-411979
480-134444-6	SW-01	T	Water	9012B	480-411979
480-134444-7	SW-02	T	Water	9012B	480-411979
480-134444-8	SW-03	T	Water	9012B	480-411979
480-134444-9	SW-04	T	Water	9012B	480-411979
480-134444-10	SW-05	T	Water	9012B	480-411979
480-134444-11	Duplicate	T	Water	9012B	480-411979
480-134444-12EB	EB	T	Water	9012B	480-411979
Analysis Batch:480-415058					
LCS 480-415058/2	Lab Control Sample	T	Water	SM 2540C	
MB 480-415058/1	Method Blank	T	Water	SM 2540C	
480-134444-9RA	SW-04	T	Water	SM 2540C	

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 460-513896					
LCS 460-513896/2-A	Lab Control Sample	T	Water	9016	
MB 460-513896/1-A	Method Blank	T	Water	9016	
480-134358-1	MW-13	T	Water	9016	
480-134358-2	MW-23	T	Water	9016	
480-134358-3	MW-14	T	Water	9016	
480-134358-4	MW-20	T	Water	9016	
480-134358-5	MW-21	T	Water	9016	
480-134444-1	MW-17	T	Water	9016	
480-134444-2	MW-22	T	Water	9016	
480-134444-3	MW-12	T	Water	9016	
480-134444-4	MW-11A	T	Water	9016	
480-134444-6	SW-01	T	Water	9016	
480-134444-7	SW-02	T	Water	9016	
480-134444-8	SW-03	T	Water	9016	
480-134444-9	SW-04	T	Water	9016	
480-134444-10	SW-05	T	Water	9016	
480-134444-11	Duplicate	T	Water	9016	
480-134444-12EB	EB	T	Water	9016	
Prep Batch: 460-513974					
LCS 460-513974/2-A	Lab Control Sample	T	Water	9016	
MB 460-513974/1-A	Method Blank	T	Water	9016	
480-134358-9	MW-16	T	Water	9016	
480-134358-9MS	Matrix Spike	T	Water	9016	
480-134358-9MSD	Matrix Spike Duplicate	T	Water	9016	

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

Sdg Number: 480-134358-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:460-514046					
DLCK 460-514046/10	Detection Limit Check Standard	T	Water	9016	
LCS 460-513896/2-A	Lab Control Sample	T	Water	9016	460-513896
MB 460-513896/1-A	Method Blank	T	Water	9016	460-513896
LCS 460-513974/2-A	Lab Control Sample	T	Water	9016	460-513974
MB 460-513974/1-A	Method Blank	T	Water	9016	460-513974
480-134358-1	MW-13	T	Water	9016	460-513896
480-134358-2	MW-23	T	Water	9016	460-513896
480-134358-3	MW-14	T	Water	9016	460-513896
480-134358-4	MW-20	T	Water	9016	460-513896
480-134358-5	MW-21	T	Water	9016	460-513896
480-134358-9	MW-16	T	Water	9016	460-513974
480-134358-9MS	Matrix Spike	T	Water	9016	460-513974
480-134358-9MSD	Matrix Spike Duplicate	T	Water	9016	460-513974
480-134444-1	MW-17	T	Water	9016	460-513896
480-134444-2	MW-22	T	Water	9016	460-513896
480-134444-3	MW-12	T	Water	9016	460-513896
480-134444-4	MW-11A	T	Water	9016	460-513896
480-134444-6	SW-01	T	Water	9016	460-513896
480-134444-7	SW-02	T	Water	9016	460-513896
480-134444-8	SW-03	T	Water	9016	460-513896
480-134444-9	SW-04	T	Water	9016	460-513896
480-134444-10	SW-05	T	Water	9016	460-513896
480-134444-11	Duplicate	T	Water	9016	460-513896
480-134444-12EB	EB	T	Water	9016	460-513896

Report Basis

T = Total

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134358-1

Client ID: MW-13

Sample Date/Time: 04/17/2018 10:30 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134358-E-1		480-410900		04/26/2018 03:48	1	TAL BUF	RRS
A:8260C	480-134358-E-1		480-410900		04/26/2018 03:48	1	TAL BUF	RRS
P:3510C	480-134358-A-1-A		480-409652	480-409528	04/18/2018 14:24	1	TAL BUF	ATG
A:8270D_LL_PA H	480-134358-A-1-A		480-409652	480-409528	04/20/2018 08:06	1	TAL BUF	RJS
P:9012B	480-134358-A-1-B		480-411719	480-411703	04/30/2018 13:25	1	TAL BUF	MRF
A:9012B	480-134358-A-1-B		480-411719	480-411703	04/30/2018 17:45	1	TAL BUF	MRF
P:9016	480-134358-D-1-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134358-D-1-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134358-2

Client ID: MW-23

Sample Date/Time: 04/17/2018 09:40 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134358-E-2		480-410900		04/26/2018 04:13	1	TAL BUF	RRS
A:8260C	480-134358-E-2		480-410900		04/26/2018 04:13	1	TAL BUF	RRS
P:3510C	480-134358-A-2-A		480-409652	480-409528	04/18/2018 14:24	1	TAL BUF	ATG
A:8270D_LL_PA H	480-134358-A-2-A		480-409652	480-409528	04/20/2018 08:34	1	TAL BUF	RJS
P:9012B	480-134358-A-2-B		480-411719	480-411703	04/30/2018 13:25	1	TAL BUF	MRF
A:9012B	480-134358-A-2-B		480-411719	480-411703	04/30/2018 17:46	1	TAL BUF	MRF
P:9016	480-134358-D-2-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134358-D-2-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134358-3

Client ID: MW-14

Sample Date/Time: 04/17/2018 11:25 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134358-A-3-A ^2		480-411719	480-411703	04/30/2018 13:25	2	TAL BUF	MRF
A:9012B	480-134358-A-3-A ^2		480-411719	480-411703	04/30/2018 17:59	2	TAL BUF	MRF
P:9016	480-134358-B-3-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134358-B-3-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134358-4

Client ID: MW-20

Sample Date/Time: 04/17/2018 12:30 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134358-A-4-A ^5		480-411719	480-411703	04/30/2018 13:25	5	TAL BUF	MRF
A:9012B	480-134358-A-4-A ^5		480-411719	480-411703	04/30/2018 18:01	5	TAL BUF	MRF
P:9016	480-134358-B-4-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134358-B-4-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134358-5

Client ID: MW-21

Sample Date/Time: 04/17/2018 14:15 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134358-A-5-A ^2		480-411719	480-411703	04/30/2018 13:25	2	TAL BUF	MRF
A:9012B	480-134358-A-5-A ^2		480-411719	480-411703	04/30/2018 18:02	2	TAL BUF	MRF
P:9016	480-134358-B-5-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134358-B-5-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134358-6

Client ID: MW-07

Sample Date/Time: 04/17/2018 13:35 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134358-E-6		480-410900		04/26/2018 04:39	20	TAL BUF	RRS
A:8260C	480-134358-E-6		480-410900		04/26/2018 04:39	20	TAL BUF	RRS
P:3510C	480-134358-A-6-A		480-409652	480-409528	04/18/2018 14:24	100	TAL BUF	ATG
A:8270D_LL_PA H	480-134358-A-6-A		480-409652	480-409528	04/20/2018 09:03	100	TAL BUF	RJS

Lab ID: 480-134358-6 MS

Client ID: MW-07

Sample Date/Time: 04/17/2018 13:35 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134358-E-6 MS		480-410900		04/26/2018 05:54	20	TAL BUF	RRS
A:8260C	480-134358-E-6 MS		480-410900		04/26/2018 05:54	20	TAL BUF	RRS

Lab ID: 480-134358-6 MSD

Client ID: MW-07

Sample Date/Time: 04/17/2018 13:35 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134358-E-6 MSD		480-410900		04/26/2018 06:20	20	TAL BUF	RRS
A:8260C	480-134358-E-6 MSD		480-410900		04/26/2018 06:20	20	TAL BUF	RRS

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134358-7

Client ID: MW-10

Sample Date/Time: 04/17/2018 12:35 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134358-E-7		480-410900		04/26/2018 05:04	1	TAL BUF	RRS
A:8260C	480-134358-E-7		480-410900		04/26/2018 05:04	1	TAL BUF	RRS
P:3510C	480-134358-A-7-A		480-409652	480-409528	04/18/2018 14:24	1	TAL BUF	ATG
A:8270D_LL_PA H	480-134358-A-7-A		480-409652	480-409528	04/20/2018 09:32	1	TAL BUF	RJS

Lab ID: 480-134358-8

Client ID: TB

Sample Date/Time: 04/17/2018 00:00 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134358-A-8		480-410900		04/26/2018 05:29	1	TAL BUF	RRS
A:8260C	480-134358-A-8		480-410900		04/26/2018 05:29	1	TAL BUF	RRS

Lab ID: 480-134358-9

Client ID: MW-16

Sample Date/Time: 04/17/2018 14:15 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134358-A-9-A		480-411719	480-411703	04/30/2018 13:25	10	TAL BUF	MRF
A:9012B	480-134358-A-9-A ^10		480-411719	480-411703	04/30/2018 18:03	10	TAL BUF	MRF
P:9016	480-134358-B-9-A		460-514046	460-513974	04/25/2018 07:51	1	TAL EDI	KYN
A:9016	480-134358-B-9-A		460-514046	460-513974	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134358-9 MS

Client ID: MW-16

Sample Date/Time: 04/17/2018 14:15 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9016	480-134358-B-9-B MS		460-514046	460-513974	04/25/2018 07:51	1	TAL EDI	KYN
A:9016	480-134358-B-9-B MS		460-514046	460-513974	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134358-9 MSD

Client ID: MW-16

Sample Date/Time: 04/17/2018 14:15 Received Date/Time: 04/17/2018 15:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9016	480-134358-B-9-C MSD		460-514046	460-513974	04/25/2018 07:51	1	TAL EDI	KYN
A:9016	480-134358-B-9-C MSD		460-514046	460-513974	04/25/2018 15:30	1	TAL EDI	JXT

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134444-1

Client ID: MW-17

Sample Date/Time: 04/18/2018 13:25 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-E-1		480-410957		04/26/2018 14:59	4	TAL BUF	KMN
A:8260C	480-134444-E-1		480-410957		04/26/2018 14:59	4	TAL BUF	KMN
P:3510C	480-134444-B-1-A		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	480-134444-B-1-A		480-410140	480-409870	04/21/2018 23:22	1	TAL BUF	PJQ
P:9012B	480-134444-C-1-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-C-1-A		480-411985	480-411979	05/01/2018 20:45	1	TAL BUF	MRF
P:9016	480-134444-D-1-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-D-1-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134444-2

Client ID: MW-22

Sample Date/Time: 04/18/2018 09:15 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134444-A-2-A ^2		480-411985	480-411979	05/01/2018 18:07	2	TAL BUF	MRF
A:9012B	480-134444-A-2-A ^2		480-411985	480-411979	05/01/2018 21:11	2	TAL BUF	MRF
P:9016	480-134444-B-2-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-B-2-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134444-3

Client ID: MW-12

Sample Date/Time: 04/18/2018 08:55 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134444-A-3-A ^2		480-411985	480-411979	05/01/2018 18:07	2	TAL BUF	MRF
A:9012B	480-134444-A-3-A ^2		480-411985	480-411979	05/01/2018 21:13	2	TAL BUF	MRF
P:9016	480-134444-B-3-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-B-3-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134444-4

Client ID: MW-11A

Sample Date/Time: 04/18/2018 10:40 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-F-4		480-410957		04/26/2018 15:24	4	TAL BUF	KMN
A:8260C	480-134444-F-4		480-410957		04/26/2018 15:24	4	TAL BUF	KMN
P:3510C	480-134444-C-4-A		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	480-134444-C-4-A		480-410140	480-409870	04/21/2018 23:51	1	TAL BUF	PJQ
P:9012B	480-134444-D-4-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-D-4-A		480-411985	480-411979	05/01/2018 20:53	1	TAL BUF	MRF
P:9016	480-134444-E-4-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-E-4-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	480-134444-A-4		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540D	480-134444-A-4		480-410389		04/23/2018 16:00	1	TAL BUF	MAB

Lab ID: 480-134444-5

Client ID: MW-19

Sample Date/Time: 04/18/2018 10:35 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-C-5		480-410957		04/26/2018 15:49	100	TAL BUF	KMN
A:8260C	480-134444-C-5		480-410957		04/26/2018 15:49	100	TAL BUF	KMN
P:3510C	480-134444-A-5-A		480-410140	480-409870	04/20/2018 08:09	250	TAL BUF	JMP
A:8270D_LL_PA H	480-134444-A-5-A		480-410140	480-409870	04/22/2018 00:19	250	TAL BUF	PJQ

Lab ID: 480-134444-6

Client ID: SW-01

Sample Date/Time: 04/18/2018 14:15 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-F-6		480-410957		04/26/2018 16:15	1	TAL BUF	KMN
A:8260C	480-134444-F-6		480-410957		04/26/2018 16:15	1	TAL BUF	KMN
P:3510C	480-134444-B-6-A		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	480-134444-B-6-A		480-410140	480-409870	04/22/2018 00:47	1	TAL BUF	PJQ
P:9012B	480-134444-D-6-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-D-6-A		480-411985	480-411979	05/01/2018 20:54	1	TAL BUF	MRF
P:9016	480-134444-E-6-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-E-6-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	480-134444-A-6		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540D	480-134444-A-6		480-410389		04/23/2018 16:00	1	TAL BUF	MAB

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134444-7

Client ID: SW-02

Sample Date/Time: 04/18/2018 11:30 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-F-7		480-410957		04/26/2018 16:40	1	TAL BUF	KMN
A:8260C	480-134444-F-7		480-410957		04/26/2018 16:40	1	TAL BUF	KMN
P:3510C	480-134444-C-7-A		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	480-134444-C-7-A		480-410140	480-409870	04/22/2018 01:15	1	TAL BUF	PJQ
P:9012B	480-134444-D-7-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-D-7-A		480-411985	480-411979	05/01/2018 20:55	1	TAL BUF	MRF
P:9016	480-134444-E-7-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-E-7-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	480-134444-A-7		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540D	480-134444-A-7		480-410389		04/23/2018 16:00	1	TAL BUF	MAB

Lab ID: 480-134444-8

Client ID: SW-03

Sample Date/Time: 04/18/2018 12:05 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134444-B-8-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-B-8-A		480-411985	480-411979	05/01/2018 20:57	1	TAL BUF	MRF
P:9016	480-134444-C-8-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-C-8-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	480-134444-A-8		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540D	480-134444-A-8		480-410389		04/23/2018 16:00	1	TAL BUF	MAB

Lab ID: 480-134444-9

Client ID: SW-04

Sample Date/Time: 04/18/2018 13:45 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134444-B-9-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-B-9-A		480-411985	480-411979	05/01/2018 20:58	1	TAL BUF	MRF
P:9016	480-134444-C-9-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-C-9-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	480-134444-A-9		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540C	480-134444-A-9	RA	480-415058		05/17/2018 18:21	1	TAL BUF	CDC
A:SM 2540D	480-134444-A-9		480-410680		04/24/2018 20:02	1	TAL BUF	SMH

Lab ID: 480-134444-9 DU

Client ID: SW-04

Sample Date/Time: 04/18/2018 13:45 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540C	480-134444-A-9 DU		480-410919		04/25/2018 19:30	1	TAL BUF	EKB

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134444-10

Client ID: SW-05

Sample Date/Time: 04/18/2018 13:05 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012B	480-134444-B-10-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-B-10-A		480-411985	480-411979	05/01/2018 21:00	1	TAL BUF	MRF
P:9016	480-134444-C-10-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-C-10-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	480-134444-A-10		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540D	480-134444-A-10		480-410680		04/24/2018 20:02	1	TAL BUF	SMH

Lab ID: 480-134444-11

Client ID: Duplicate

Sample Date/Time: 04/18/2018 00:00 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-F-11		480-411190		04/27/2018 04:59	1	TAL BUF	RRS
A:8260C	480-134444-F-11		480-411190		04/27/2018 04:59	1	TAL BUF	RRS
P:3510C	480-134444-A-11-A		480-410190	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	480-134444-A-11-A		480-410190	480-409870	04/22/2018 14:35	1	TAL BUF	PJQ
P:9012B	480-134444-C-11-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-C-11-A		480-411985	480-411979	05/01/2018 21:01	1	TAL BUF	MRF
P:9016	480-134444-D-11-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-D-11-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Lab ID: 480-134444-12

Client ID: EB

Sample Date/Time: 04/18/2018 11:00 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-E-12		480-410957		04/26/2018 17:31	1	TAL BUF	KMN
A:8260C	480-134444-E-12		480-410957		04/26/2018 17:31	1	TAL BUF	KMN
P:3510C	480-134444-A-12-A		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	480-134444-A-12-A		480-410140	480-409870	04/22/2018 02:12	1	TAL BUF	PJQ
P:9012B	480-134444-C-12-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	480-134444-C-12-A		480-411985	480-411979	05/01/2018 21:03	1	TAL BUF	MRF
P:9016	480-134444-D-12-A		460-514046	460-513896	04/25/2018 04:57	1	TAL EDI	KYN
A:9016	480-134444-D-12-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: 480-134444-14

Client ID: TB

Sample Date/Time: 04/18/2018 00:00 Received Date/Time: 04/18/2018 15:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-134444-A-14		480-410957		04/26/2018 17:56	1	TAL BUF	KMN
A:8260C	480-134444-A-14		480-410957		04/26/2018 17:56	1	TAL BUF	KMN

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-410900/6		480-410900		04/25/2018 22:29	1	TAL BUF	RRS
A:8260C	MB 480-410900/6		480-410900		04/25/2018 22:29	1	TAL BUF	RRS
P:5030C	MB 480-410957/7		480-410957		04/26/2018 10:58	1	TAL BUF	KMN
A:8260C	MB 480-410957/7		480-410957		04/26/2018 10:58	1	TAL BUF	KMN
P:5030C	MB 480-411190/6		480-411190		04/26/2018 22:27	1	TAL BUF	RRS
A:8260C	MB 480-411190/6		480-411190		04/26/2018 22:27	1	TAL BUF	RRS
P:3510C	MB 480-409528/1-A		480-409652	480-409528	04/18/2018 14:24	1	TAL BUF	ATG
A:8270D_LL_PA H	MB 480-409528/1-A		480-409652	480-409528	04/20/2018 06:39	1	TAL BUF	RJS
P:3510C	MB 480-409870/1-A		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	MB 480-409870/1-A		480-410140	480-409870	04/21/2018 16:15	1	TAL BUF	PJQ
P:9012B	MB 480-411703/1-A		480-411719	480-411703	04/30/2018 13:25	1	TAL BUF	MRF
A:9012B	MB 480-411703/1-A		480-411719	480-411703	04/30/2018 17:22	1	TAL BUF	MRF
P:9012B	MB 480-411979/1-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	MB 480-411979/1-A		480-411985	480-411979	05/01/2018 20:34	1	TAL BUF	MRF
P:9016	MB 460-513896/1-A		460-514046	460-513896	04/25/2018 04:56	1	TAL EDI	KYN
P:9016	MB 460-513974/1-A		460-514046	460-513974	04/25/2018 07:51	1	TAL EDI	KYN
A:9016	MB 460-513896/1-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:9016	MB 460-513974/1-A		460-514046	460-513974	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	MB 480-410919/1		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540C	MB 480-415058/1		480-415058		05/17/2018 18:21	1	TAL BUF	CDC
A:SM 2540D	MB 480-410389/1		480-410389		04/23/2018 16:00	1	TAL BUF	MAB
A:SM 2540D	MB 480-410680/1		480-410680		04/24/2018 20:02	1	TAL BUF	SMH

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1
SDG: 480-134358-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-410900/4		480-410900		04/25/2018 21:14	1	TAL BUF	RRS
A:8260C	LCS 480-410900/4		480-410900		04/25/2018 21:14	1	TAL BUF	RRS
P:5030C	LCS 480-410957/5		480-410957		04/26/2018 10:08	1	TAL BUF	KMN
A:8260C	LCS 480-410957/5		480-410957		04/26/2018 10:08	1	TAL BUF	KMN
P:5030C	LCS 480-411190/4		480-411190		04/26/2018 21:23	1	TAL BUF	RRS
A:8260C	LCS 480-411190/4		480-411190		04/26/2018 21:23	1	TAL BUF	RRS
P:3510C	LCS 480-409528/2-A		480-409652	480-409528	04/18/2018 14:24	1	TAL BUF	ATG
A:8270D_LL_PA H	LCS 480-409528/2-A		480-409652	480-409528	04/20/2018 07:08	1	TAL BUF	RJS
P:3510C	LCS 480-409870/2-A		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	LCS 480-409870/2-A		480-410140	480-409870	04/21/2018 16:44	1	TAL BUF	PJQ
P:9012B	LCS 480-411703/2-A		480-411719	480-411703	04/30/2018 13:25	1	TAL BUF	MRF
A:9012B	LCS 480-411703/2-A		480-411719	480-411703	04/30/2018 17:23	1	TAL BUF	MRF
P:9012B	LCS 480-411703/3-A		480-411719	480-411703	04/30/2018 13:25	1	TAL BUF	MRF
A:9012B	LCS 480-411703/3-A		480-411719	480-411703	04/30/2018 17:25	1	TAL BUF	MRF
P:9012B	LCS 480-411979/2-A		480-411985	480-411979	05/01/2018 18:07	1	TAL BUF	MRF
A:9012B	LCS 480-411979/2-A		480-411985	480-411979	05/01/2018 20:35	1	TAL BUF	MRF
P:9016	LCS 460-513896/2-A		460-514046	460-513896	04/25/2018 04:56	1	TAL EDI	KYN
P:9016	LCS 460-513974/2-A		460-514046	460-513974	04/25/2018 07:51	1	TAL EDI	KYN
A:9016	LCS 460-513896/2-A		460-514046	460-513896	04/25/2018 15:30	1	TAL EDI	JXT
A:9016	LCS 460-513974/2-A		460-514046	460-513974	04/25/2018 15:30	1	TAL EDI	JXT
A:SM 2540C	LCS 480-410919/2		480-410919		04/25/2018 19:30	1	TAL BUF	EKB
A:SM 2540C	LCS 480-415058/2		480-415058		05/17/2018 18:21	1	TAL BUF	CDC
A:SM 2540D	LCS 480-410389/2		480-410389		04/23/2018 16:00	1	TAL BUF	MAB
A:SM 2540D	LCS 480-410680/2		480-410680		04/24/2018 20:02	1	TAL BUF	SMH

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	LCSD		480-409652	480-409528	04/18/2018 14:24	1	TAL BUF	ATG
A:8270D_LL_PA H	480-409528/3-A		480-409652	480-409528	04/20/2018 07:37	1	TAL BUF	RJS
P:3510C	LCSD		480-410140	480-409870	04/20/2018 08:09	1	TAL BUF	JMP
A:8270D_LL_PA H	480-409870/3-A		480-410140	480-409870	04/21/2018 17:13	1	TAL BUF	PJQ

Quality Control Results

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

SDG: 480-134358-1

Laboratory Chronicle

Lab ID: DLCK

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9016	DLCK 460-514046/10		460-514046		04/25/2018 15:30	1	TAL EDI	JXT

Lab References:

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG No.: 480-134358-1

Matrix: Water

Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-13	480-134358-1	101	96	101	102
MW-23	480-134358-2	102	99	101	98
MW-07	480-134358-6	103	103	105	102
MW-10	480-134358-7	104	100	103	100
TB	480-134358-8	103	98	103	102
MW-17	480-134444-1	101	98	101	101
MW-11A	480-134444-4	99	93	101	100
MW-19	480-134444-5	103	102	103	104
SW-01	480-134444-6	102	100	101	101
SW-02	480-134444-7	106	103	101	100
Duplicate	480-134444-11	105	102	102	100
EB	480-134444-12	108	104	103	100
TB	480-134444-14	100	100	103	100
	MB 480-410900/6	103	104	102	99
	MB 480-410957/7	102	102	101	99
	MB 480-411190/6	102	103	101	100
	LCS 480-410900/4	104	102	101	100
	LCS 480-410957/5	103	100	100	98
	LCS 480-411190/4	103	100	100	102
MW-07 MS	480-134358-6 MS	108	105	101	100
MW-07 MSD	480-134358-6 MSD	104	97	103	102

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Matrix: Water Level: Low Lab File ID: C4925.D
Lab ID: LCS 480-410900/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	27.3	109	71-124	
Ethylbenzene	25.0	26.3	105	77-123	
Toluene	25.0	26.2	105	80-122	
Xylenes, Total	50.0	54.7	109	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Matrix: Water Level: Low Lab File ID: C4950.D
Lab ID: LCS 480-410957/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	24.8	99	71-124	
Ethylbenzene	25.0	23.9	96	77-123	
Toluene	25.0	24.2	97	80-122	
Xylenes, Total	50.0	50.0	100	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Matrix: Water Level: Low Lab File ID: C4976.D
Lab ID: LCS 480-411190/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	28.0	112	71-124	
Ethylbenzene	25.0	27.2	109	77-123	
Toluene	25.0	27.0	108	80-122	
Xylenes, Total	50.0	56.2	112	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Matrix: Water Level: Low Lab File ID: C4944.D
Lab ID: 480-134358-6 MS Client ID: MW-07 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	500	840	1330	98	71-124	
Ethylbenzene	500	1800	1860	21	77-123	F1
Toluene	500	36	618	116	80-122	
Xylenes, Total	1000	1100	2000	95	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Matrix: Water Level: Low Lab File ID: C4945.D
 Lab ID: 480-134358-6 MSD Client ID: MW-07 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzene	500	1220	77	8	13	71-124	
Ethylbenzene	500	1830	16	1	15	77-123	F1
Toluene	500	604	114	2	15	80-122	
Xylenes, Total	1000	1970	92	2	16	76-122	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: C4927.D Lab Sample ID: MB 480-410900/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973C Date Analyzed: 04/25/2018 22:29
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-410900/4	C4925.D	04/25/2018 21:14
MW-13	480-134358-1	C4939.D	04/26/2018 03:48
MW-23	480-134358-2	C4940.D	04/26/2018 04:13
MW-07	480-134358-6	C4941.D	04/26/2018 04:39
MW-10	480-134358-7	C4942.D	04/26/2018 05:04
TB	480-134358-8	C4943.D	04/26/2018 05:29
MW-07 MS	480-134358-6 MS	C4944.D	04/26/2018 05:54
MW-07 MSD	480-134358-6 MSD	C4945.D	04/26/2018 06:20

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: C4952.D Lab Sample ID: MB 480-410957/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973C Date Analyzed: 04/26/2018 10:58
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-410957/5	C4950.D	04/26/2018 10:08
MW-17	480-134444-1	C4961.D	04/26/2018 14:59
MW-11A	480-134444-4	C4962.D	04/26/2018 15:24
MW-19	480-134444-5	C4963.D	04/26/2018 15:49
SW-01	480-134444-6	C4964.D	04/26/2018 16:15
SW-02	480-134444-7	C4965.D	04/26/2018 16:40
EB	480-134444-12	C4967.D	04/26/2018 17:31
TB	480-134444-14	C4968.D	04/26/2018 17:56

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: C4978.D Lab Sample ID: MB 480-411190/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973C Date Analyzed: 04/26/2018 22:27
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-411190/4	C4976.D	04/26/2018 21:23
Duplicate	480-134444-11	C4993.D	04/27/2018 04:59

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: C4169.D BFB Injection Date: 04/09/2018
Instrument ID: HP5973C BFB Injection Time: 13:37
Analysis Batch No.: 407833

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.0
75	30.0 - 60.0 % of mass 95	49.7
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	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	86.1
175	5.0 - 9.0 % of mass 174	6.5 (7.6) 1
176	95.0 - 101.0 % of mass 174	86.1 (99.9) 1
177	5.0 - 9.0 % of mass 176	5.6 (6.5) 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 480-407833/4	C4171.D	04/09/2018	14:30
	IC 480-407833/5	C4172.D	04/09/2018	14:56
	IC 480-407833/6	C4173.D	04/09/2018	15:21
	IC 480-407833/7	C4174.D	04/09/2018	15:46
	IC 480-407833/8	C4175.D	04/09/2018	16:11
	ICIS 480-407833/9	C4176.D	04/09/2018	16:37
	IC 480-407833/10	C4177.D	04/09/2018	17:01
	IC 480-407833/11	C4178.D	04/09/2018	17:27

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: C4922.D BFB Injection Date: 04/25/2018
Instrument ID: HP5973C BFB Injection Time: 19:54
Analysis Batch No.: 410900

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.4
75	30.0 - 60.0 % of mass 95	49.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	81.9
175	5.0 - 9.0 % of mass 174	6.5 (8.0) 1
176	95.0 - 101.0 % of mass 174	81.0 (98.9) 1
177	5.0 - 9.0 % of mass 176	5.8 (7.2) 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 480-410900/2	C4923.D	04/25/2018	20:24
	LCS 480-410900/4	C4925.D	04/25/2018	21:14
	MB 480-410900/6	C4927.D	04/25/2018	22:29
MW-13	480-134358-1	C4939.D	04/26/2018	03:48
MW-23	480-134358-2	C4940.D	04/26/2018	04:13
MW-07	480-134358-6	C4941.D	04/26/2018	04:39
MW-10	480-134358-7	C4942.D	04/26/2018	05:04
TB	480-134358-8	C4943.D	04/26/2018	05:29
MW-07 MS	480-134358-6 MS	C4944.D	04/26/2018	05:54
MW-07 MSD	480-134358-6 MSD	C4945.D	04/26/2018	06:20

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: C4947.D BFB Injection Date: 04/26/2018
Instrument ID: HP5973C BFB Injection Time: 08:49
Analysis Batch No.: 410957

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.6
75	30.0 - 60.0 % of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	87.0
175	5.0 - 9.0 % of mass 174	6.5 (7.5) 1
176	95.0 - 101.0 % of mass 174	83.1 (95.5) 1
177	5.0 - 9.0 % of mass 176	6.2 (7.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-410957/3	C4948.D	04/26/2018	09:17
	LCS 480-410957/5	C4950.D	04/26/2018	10:08
	MB 480-410957/7	C4952.D	04/26/2018	10:58
MW-17	480-134444-1	C4961.D	04/26/2018	14:59
MW-11A	480-134444-4	C4962.D	04/26/2018	15:24
MW-19	480-134444-5	C4963.D	04/26/2018	15:49
SW-01	480-134444-6	C4964.D	04/26/2018	16:15
SW-02	480-134444-7	C4965.D	04/26/2018	16:40
EB	480-134444-12	C4967.D	04/26/2018	17:31
TB	480-134444-14	C4968.D	04/26/2018	17:56

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab File ID: C4973.D BFB Injection Date: 04/26/2018
 Instrument ID: HP5973C BFB Injection Time: 20:02
 Analysis Batch No.: 411190

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.5
75	30.0 - 60.0 % of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	87.2
175	5.0 - 9.0 % of mass 174	6.5 (7.5) 1
176	95.0 - 101.0 % of mass 174	83.3 (95.5) 1
177	5.0 - 9.0 % of mass 176	5.8 (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 480-411190/2	C4974.D	04/26/2018	20:32
	LCS 480-411190/4	C4976.D	04/26/2018	21:23
	MB 480-411190/6	C4978.D	04/26/2018	22:27
Duplicate	480-134444-11	C4993.D	04/27/2018	04:59

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: ICIS 480-407833/9 Date Analyzed: 04/09/2018 16:37
 Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): C4176.D Heated Purge: (Y/N) N
 Calibration ID: 33498

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	167635	9.31	363464	11.72	384934	13.71	
UPPER LIMIT	335270	9.81	726928	12.22	769868	14.21	
LOWER LIMIT	83818	8.81	181732	11.22	192467	13.21	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-410900/2		139251	9.30	317325	11.71	340977	13.71
CCVIS 480-410957/3		140045	9.31	313030	11.72	345564	13.71
CCVIS 480-411190/2		132880	9.31	298384	11.72	336448	13.71

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-410900/2 Date Analyzed: 04/25/2018 20:24
 Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): C4923.D Heated Purge: (Y/N) N
 Calibration ID: 33501

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		139251	9.30	317325	11.71	340977	13.71
UPPER LIMIT		278502	9.80	634650	12.21	681954	14.21
LOWER LIMIT		69626	8.80	158663	11.21	170489	13.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-410900/4		139847	9.31	319095	11.72	345536	13.71
MB 480-410900/6		139130	9.31	313608	11.72	348846	13.71
480-134358-1	MW-13	145438	9.31	314797	11.72	346333	13.71
480-134358-2	MW-23	140157	9.31	309110	11.72	341334	13.71
480-134358-6	MW-07	137882	9.31	301290	11.72	340779	13.71
480-134358-7	MW-10	140053	9.31	309731	11.72	343843	13.71
480-134358-8	TB	141395	9.31	312873	11.72	339886	13.71
480-134358-6 MS	MW-07 MS	133258	9.31	315670	11.72	347263	13.71
480-134358-6 MSD	MW-07 MSD	139804	9.31	309678	11.72	345191	13.71

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-410957/3 Date Analyzed: 04/26/2018 09:17
 Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): C4948.D Heated Purge: (Y/N) N
 Calibration ID: 33501

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		140045	9.31	313030	11.72	345564	13.71
UPPER LIMIT		280090	9.81	626060	12.22	691128	14.21
LOWER LIMIT		70023	8.81	156515	11.22	172782	13.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-410957/5		136663	9.31	314481	11.72	348543	13.71
MB 480-410957/7		141851	9.31	315185	11.72	346056	13.71
480-134444-1	MW-17	134267	9.31	299978	11.72	332211	13.71
480-134444-4	MW-11A	137182	9.31	301103	11.72	327735	13.71
480-134444-5	MW-19	135760	9.31	297107	11.72	328589	13.71
480-134444-6	SW-01	136232	9.31	304307	11.72	337347	13.71
480-134444-7	SW-02	130971	9.31	306559	11.72	335562	13.71
480-134444-12	EB	129815	9.31	305053	11.72	334301	13.71
480-134444-14	TB	136572	9.31	299852	11.72	333225	13.71

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-411190/2 Date Analyzed: 04/26/2018 20:32
 Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): C4974.D Heated Purge: (Y/N) N
 Calibration ID: 33501

		FB		CBNZd5		DCBd4		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		132880	9.31	298384	11.72	336448	13.71	
UPPER LIMIT		265760	9.81	596768	12.22	672896	14.21	
LOWER LIMIT		66440	8.81	149192	11.22	168224	13.21	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 480-411190/4		133541	9.31	303877	11.72	335542	13.71	
MB 480-411190/6		136046	9.31	305630	11.72	339357	13.71	
480-134444-11		Duplicate	130806	9.31	297904	11.71	327093	13.71

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-13</u>	Lab Sample ID: <u>480-134358-1</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4939.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/17/2018 10:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 03:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4939.D
 Lims ID: 480-134358-E-1
 Client ID: MW-13
 Sample Type: Client
 Inject. Date: 26-Apr-2018 03:48:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134358-e-1
 Misc. Info.: 480-0070975-019
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:35:23 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 14:35:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	145438	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	84	314797	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	346333	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	93	201912	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.061	0.012	99	90062	23.9	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	800256	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	270357	25.5	a
57 Benzene	78	9.120	9.120	0.000	1	2721	0.0558	7a
74 Toluene	92		10.591				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4939.D

Injection Date: 26-Apr-2018 03:48:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134358-E-1

Lab Sample ID: 480-134358-1

Worklist Smp#: 19

Client ID: MW-13

Purge Vol: 5.000 mL

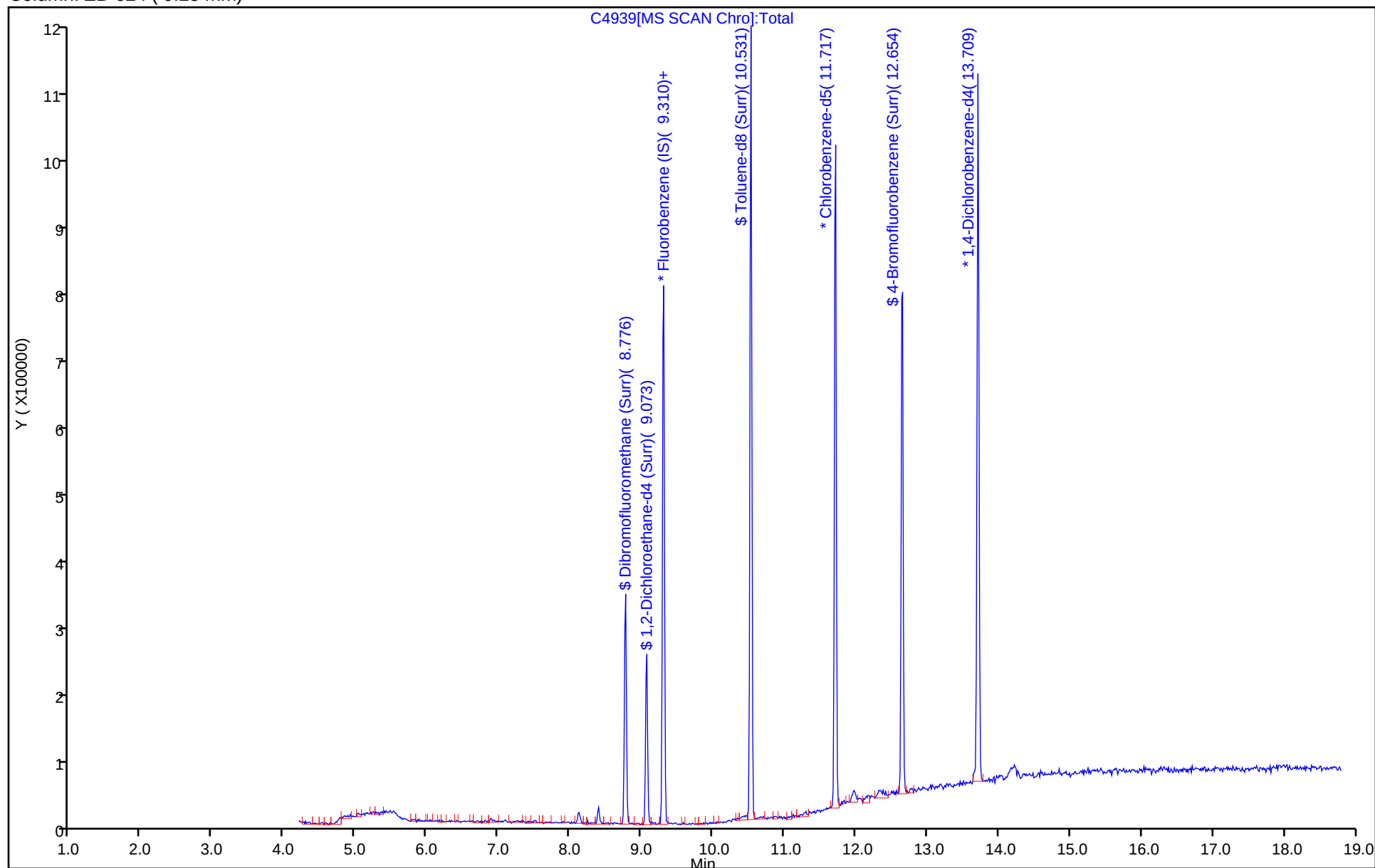
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

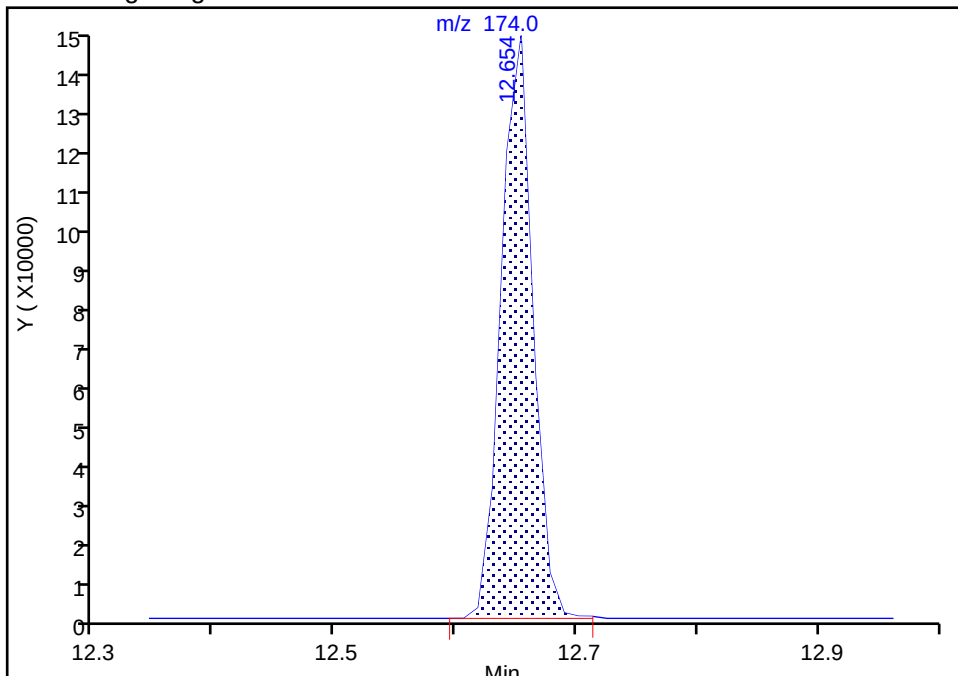
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4939.D
Injection Date: 26-Apr-2018 03:48:30 Instrument ID: HP5973C
Lims ID: 480-134358-E-1 Lab Sample ID: 480-134358-1
Client ID: MW-13
Operator ID: KN ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

\$ 6 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

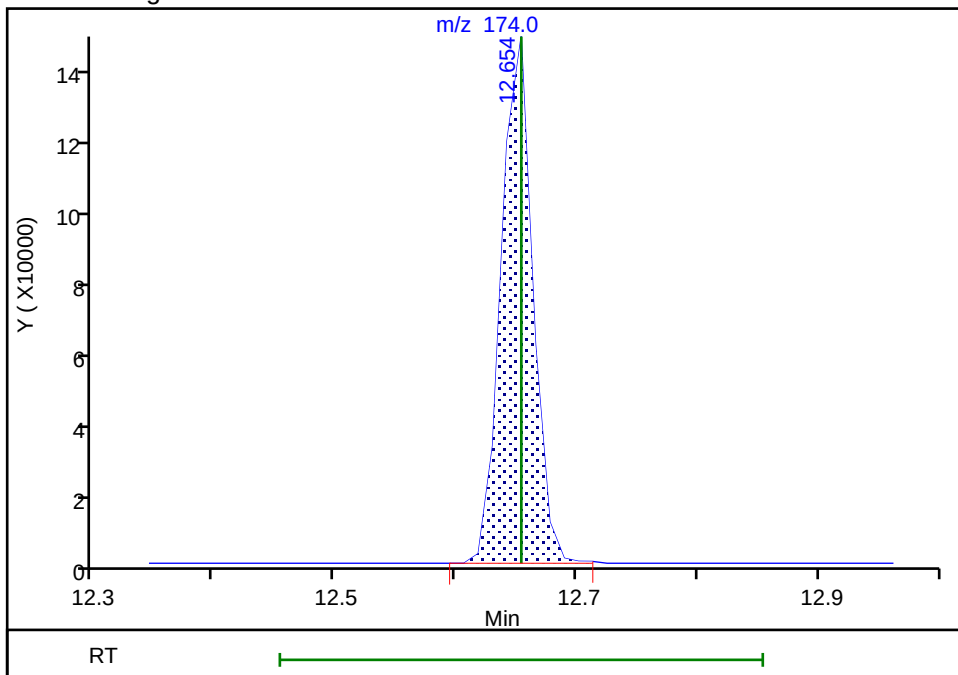
RT: 12.65
Area: 270357
Amount: 25.510071
Amount Units: ug/L

Processing Integration Results



RT: 12.65
Area: 270357
Amount: 25.510071
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 26-Apr-2018 14:35:13

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

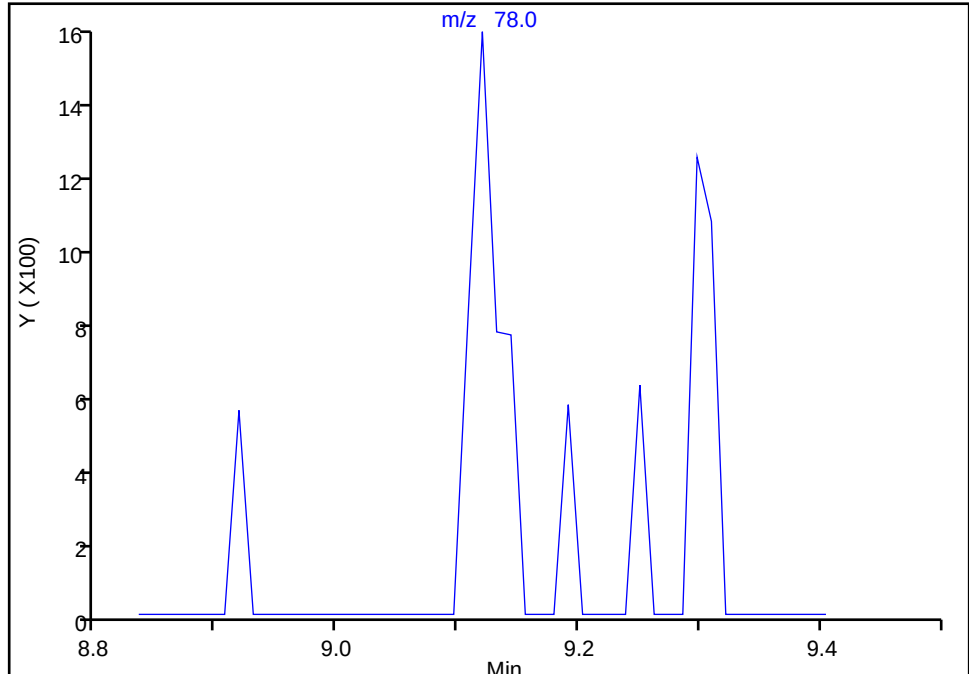
Data File:	\\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4939.D		
Injection Date:	26-Apr-2018 03:48:30	Instrument ID:	HP5973C
Lims ID:	480-134358-E-1	Lab Sample ID:	480-134358-1
Client ID:	MW-13		
Operator ID:	KN	ALS Bottle#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	C-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	19

57 Benzene, CAS: 71-43-2

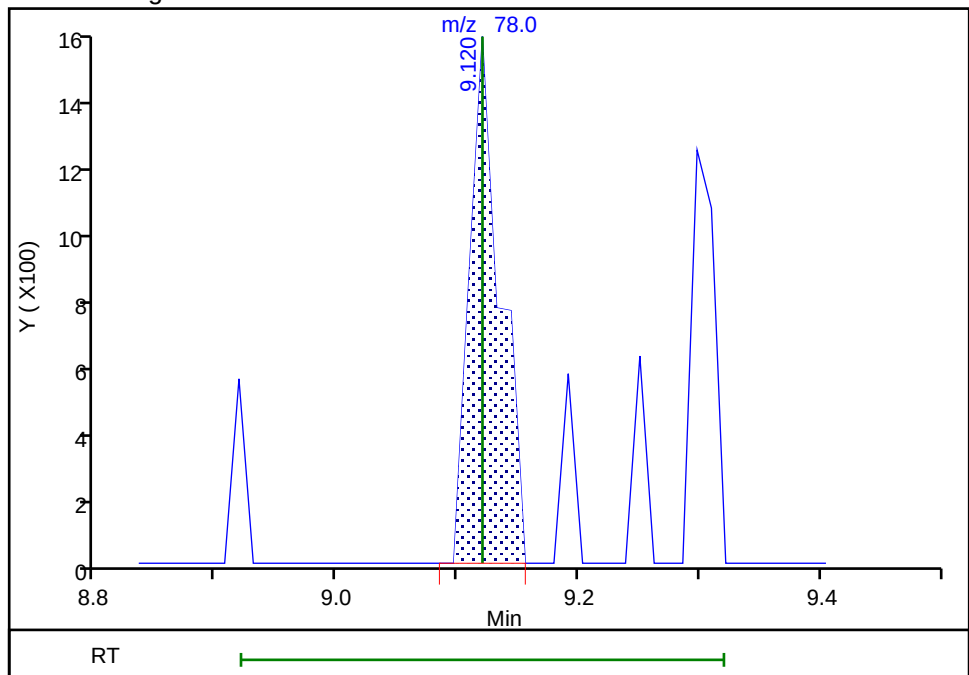
Signal: 1

Not Detected
Expected RT: 9.12

Processing Integration Results



Manual Integration Results

RT: 9.12
Area: 2721
Amount: 0.055817
Amount Units: ug/LReviewer: reiler, 26-Apr-2018 14:35:18
Audit Action: Assigned Compound IDAudit Reason: Peak assignment corrected
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05/30/2018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-23</u>	Lab Sample ID: <u>480-134358-2</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4940.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/17/2018 09:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 04:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4940.D
 Lims ID: 480-134358-E-2
 Client ID: MW-23
 Sample Type: Client
 Inject. Date: 26-Apr-2018 04:13:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134358-e-2
 Misc. Info.: 480-0070975-020
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:35:23 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 14:35:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	140157	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	84	309110	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	341334	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	93	196881	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.061	0.011	99	89783	24.8	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	785152	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	254425	24.4	
57 Benzene	78		9.120				ND	
74 Toluene	92		10.591				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4940.D

Injection Date: 26-Apr-2018 04:13:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134358-E-2

Lab Sample ID: 480-134358-2

Worklist Smp#: 20

Client ID: MW-23

Purge Vol: 5.000 mL

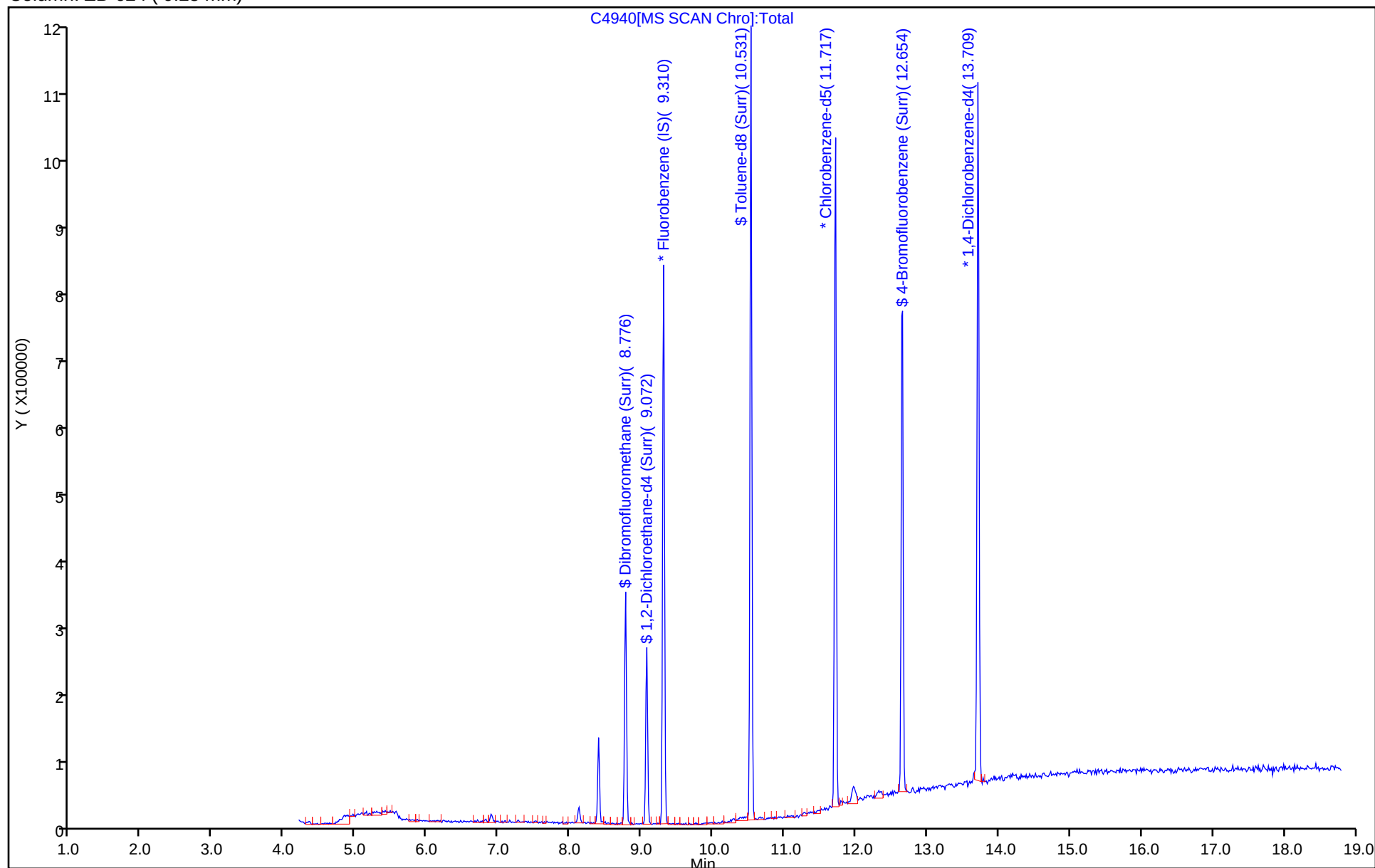
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-07</u>	Lab Sample ID: <u>480-134358-6</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4941.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/17/2018 13:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 04:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>20</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	840		20	8.2
100-41-4	Ethylbenzene	1800	F1	20	15
108-88-3	Toluene	36		20	10
1330-20-7	Xylenes, Total	1100		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	105		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4941.D
 Lims ID: 480-134358-E-6
 Client ID: MW-07
 Sample Type: Client
 Inject. Date: 26-Apr-2018 04:39:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-134358-e-6
 Misc. Info.: 480-0070975-021
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:35:23 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 14:35:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	137882	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	83	301290	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	96	340779	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	92	196092	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.061	0.012	98	91464	25.7	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	799313	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	259215	25.6	
57 Benzene	78	9.120	9.120	0.000	96	1935885	41.9	
74 Toluene	92	10.590	10.591	0.000	98	54547	1.79	
88 Ethylbenzene	91	11.753	11.753	0.000	98	5183096	87.5	
90 m-Xylene & p-Xylene	106	11.824	11.836	0.000	96	625074	27.6	
91 o-Xylene	106	12.179	12.179	-0.001	97	570398	25.2	
S 124 Xylenes, Total	1				0		52.7	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4941.D

Injection Date: 26-Apr-2018 04:39:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134358-E-6

Lab Sample ID: 480-134358-6

Worklist Smp#: 21

Client ID: MW-07

Purge Vol: 5.000 mL

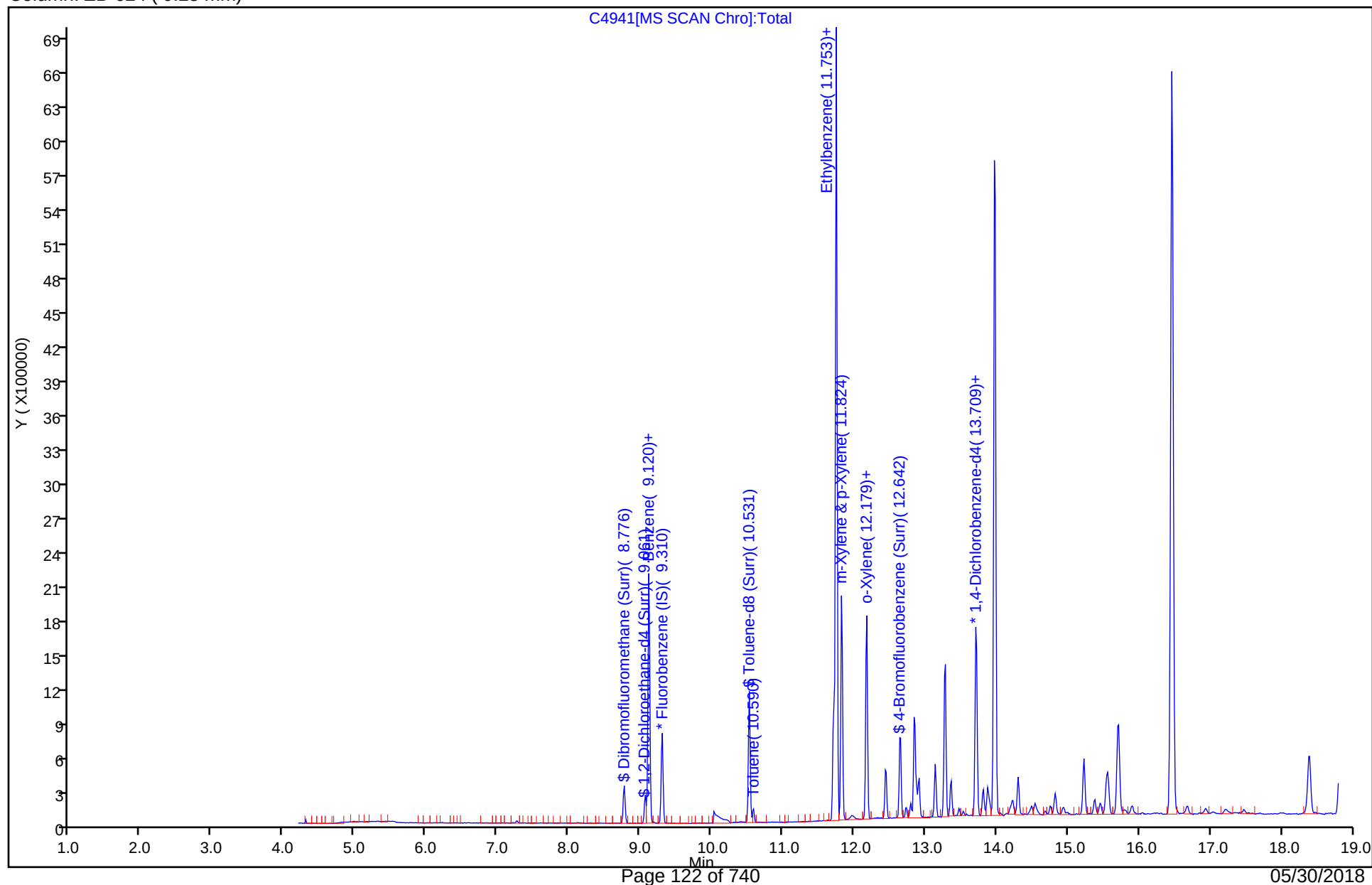
Dil. Factor: 20.0000

ALS Bottle#: 20

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180425-70975.b\\C4941.D

Injection Date: 26-Apr-2018 04:39:30

Instrument ID: HP5973C

Lims ID: 480-134358-E-6

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: KN

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

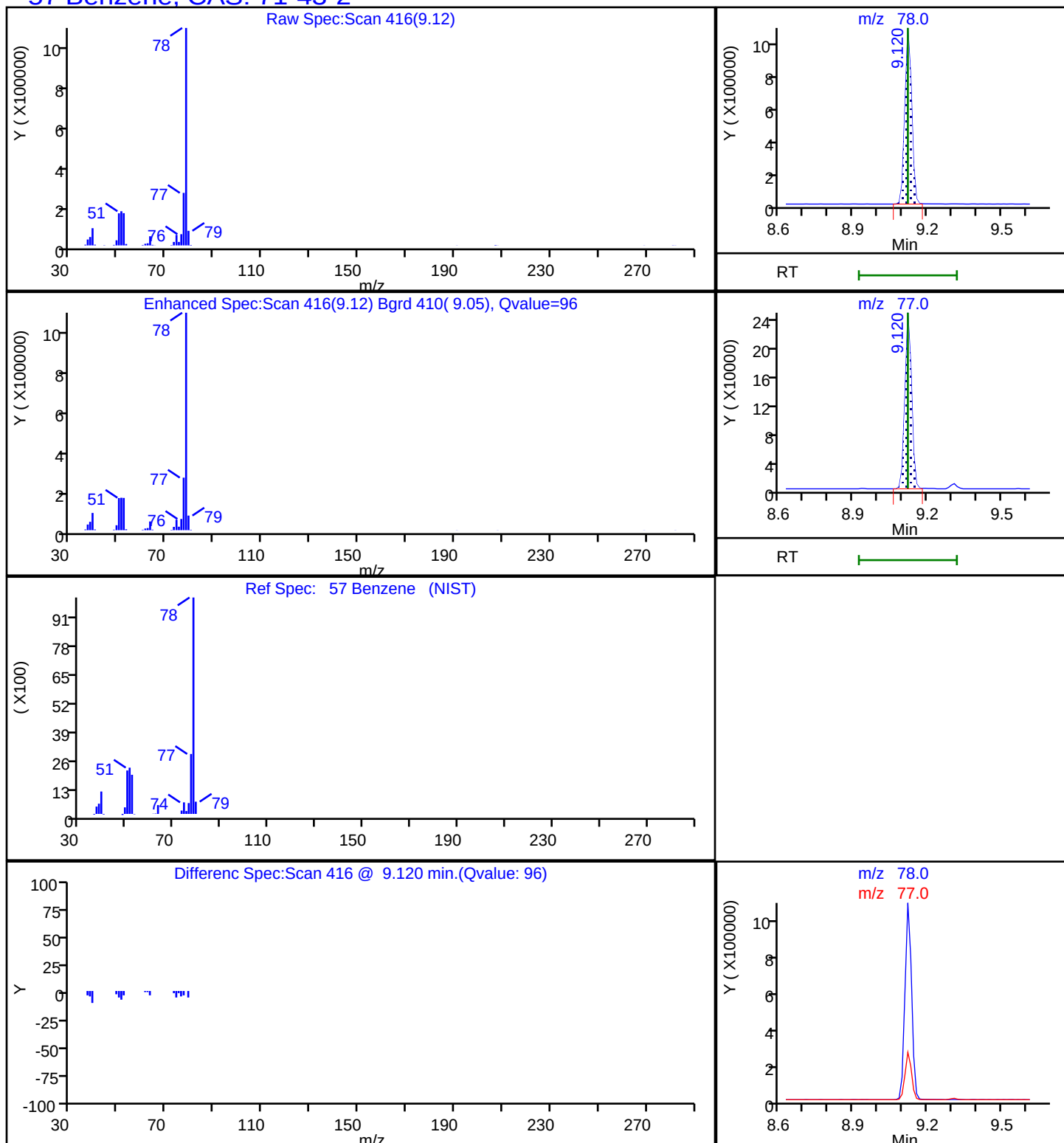
Dil. Factor: 20.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4941.D

Injection Date: 26-Apr-2018 04:39:30

Instrument ID: HP5973C

Lims ID: 480-134358-E-6

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: KN

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

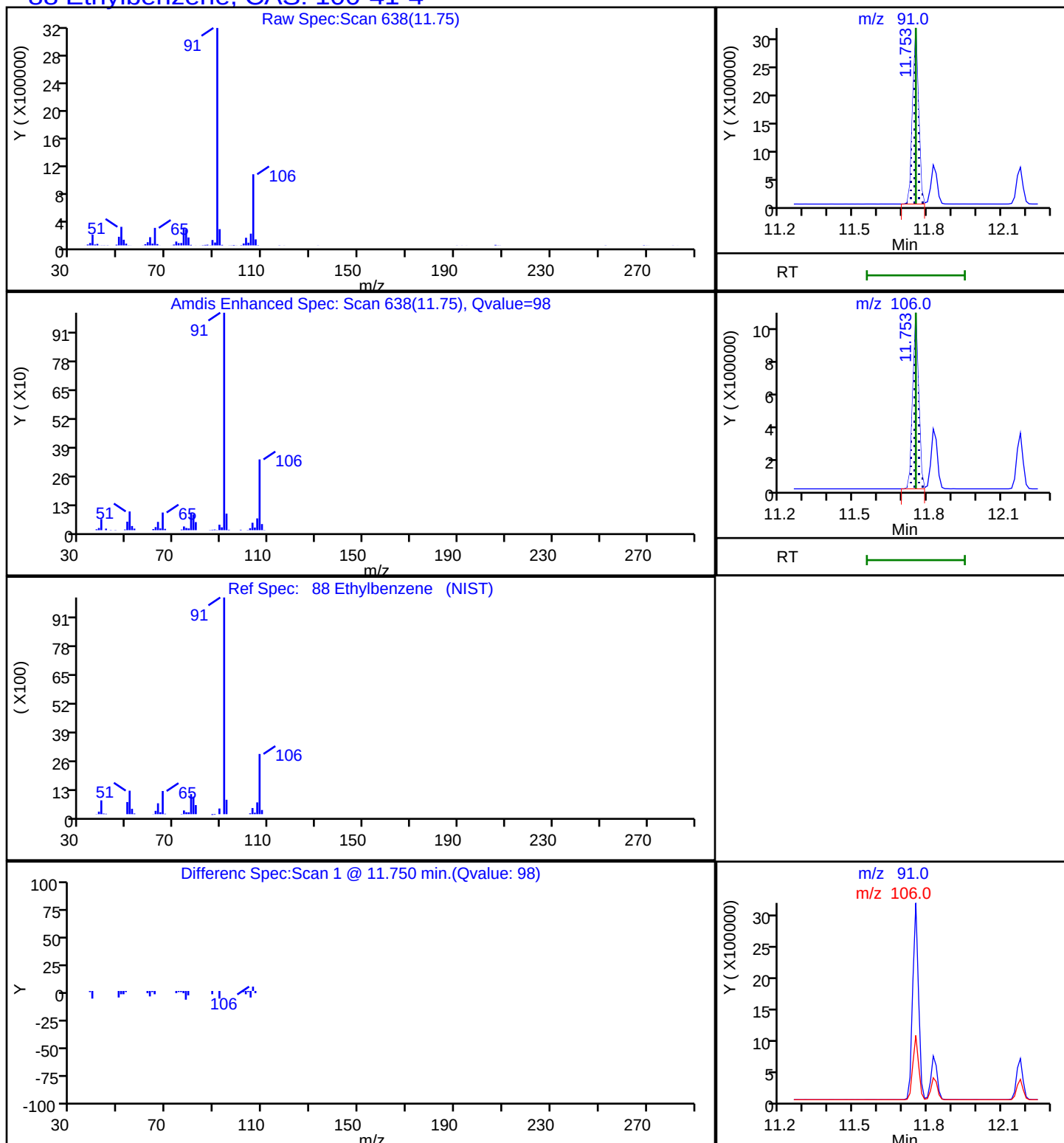
Dil. Factor: 20.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4941.D

Injection Date: 26-Apr-2018 04:39:30

Instrument ID: HP5973C

Lims ID: 480-134358-E-6

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: KN

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

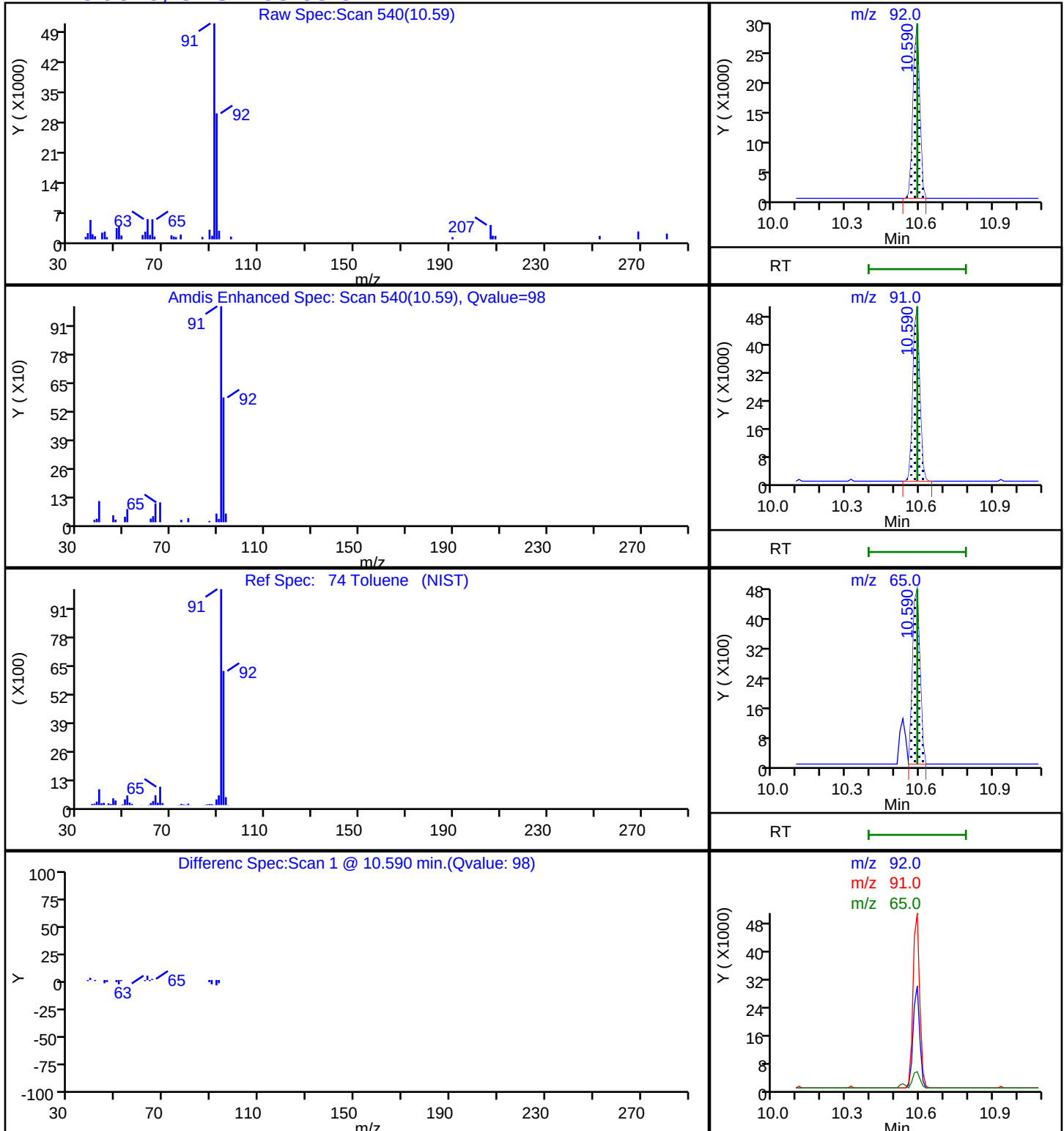
Dil. Factor: 20.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4941.D

Injection Date: 26-Apr-2018 04:39:30

Instrument ID: HP5973C

Lims ID: 480-134358-E-6

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: KN

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

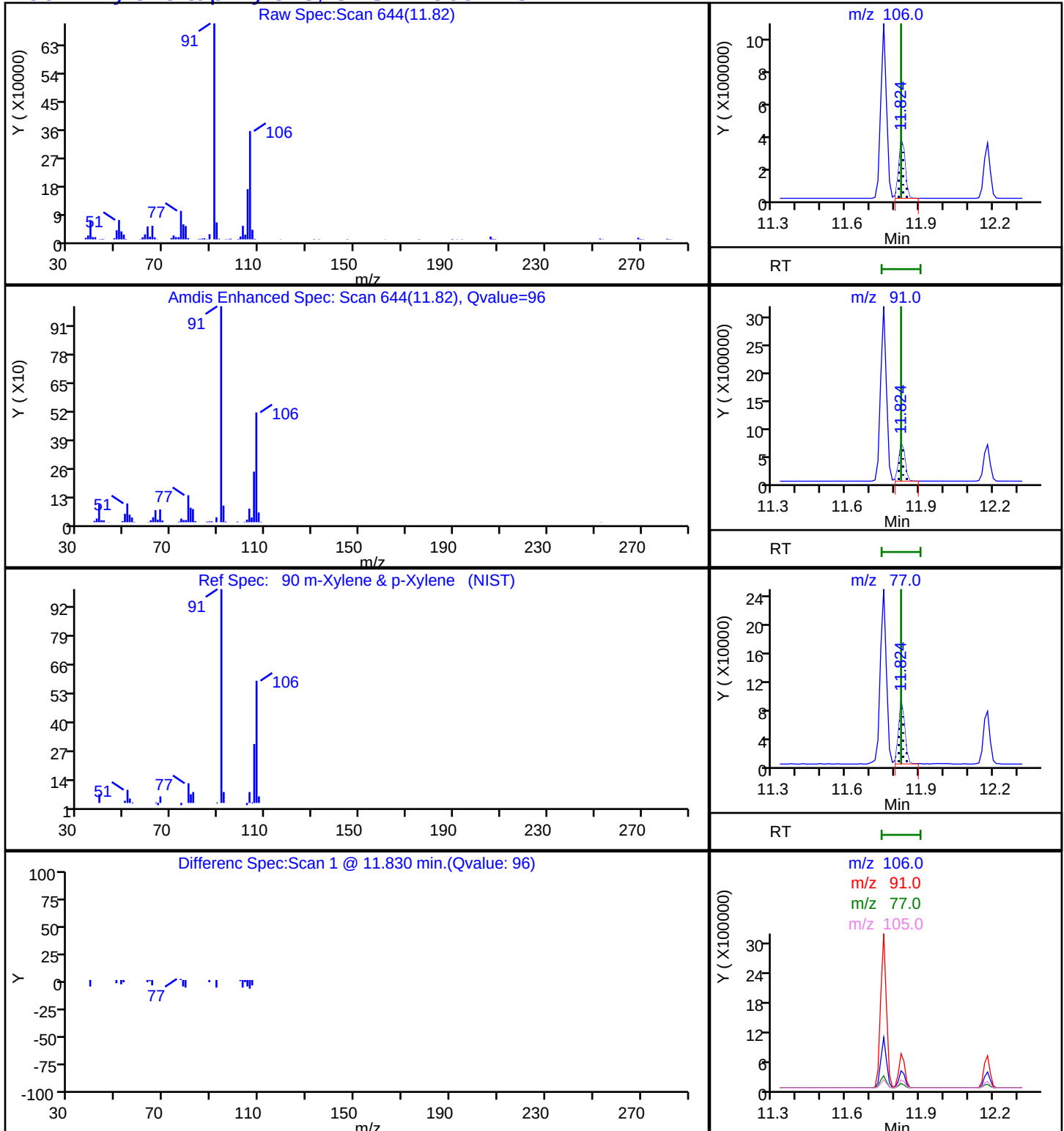
Dil. Factor: 20.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4941.D

Injection Date: 26-Apr-2018 04:39:30

Instrument ID: HP5973C

Lims ID: 480-134358-E-6

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: KN

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

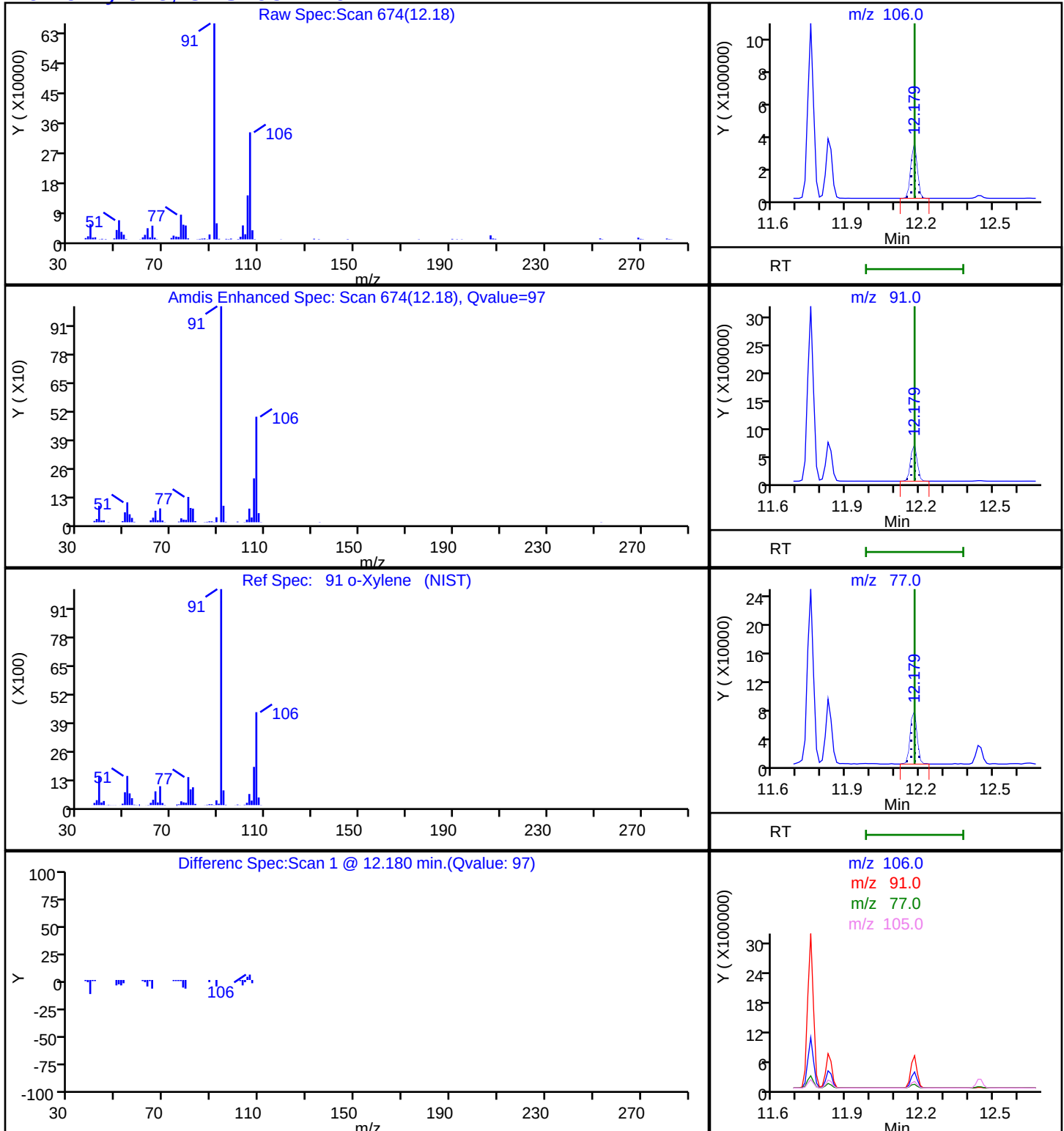
Dil. Factor: 20.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-10</u>	Lab Sample ID: <u>480-134358-7</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4942.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/17/2018 12:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 05:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4942.D
 Lims ID: 480-134358-E-7
 Client ID: MW-10
 Sample Type: Client
 Inject. Date: 26-Apr-2018 05:04:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134358-e-7
 Misc. Info.: 480-0070975-022
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:36:16 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 14:36:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	140053	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	84	309731	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	343843	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	93	200730	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.061	0.012	99	90264	24.9	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	801627	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	261333	25.1	
57 Benzene	78	9.132	9.132	0.012	84	4794	0.1021	a
74 Toluene	92		10.591				ND	
88 Ethylbenzene	91	11.753	11.753	0.000	95	17483	0.2872	M
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	34	2196	0.0943	a
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1				0		0.0943	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4942.D

Injection Date: 26-Apr-2018 05:04:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134358-E-7

Lab Sample ID: 480-134358-7

Worklist Smp#: 22

Client ID: MW-10

Purge Vol: 5.000 mL

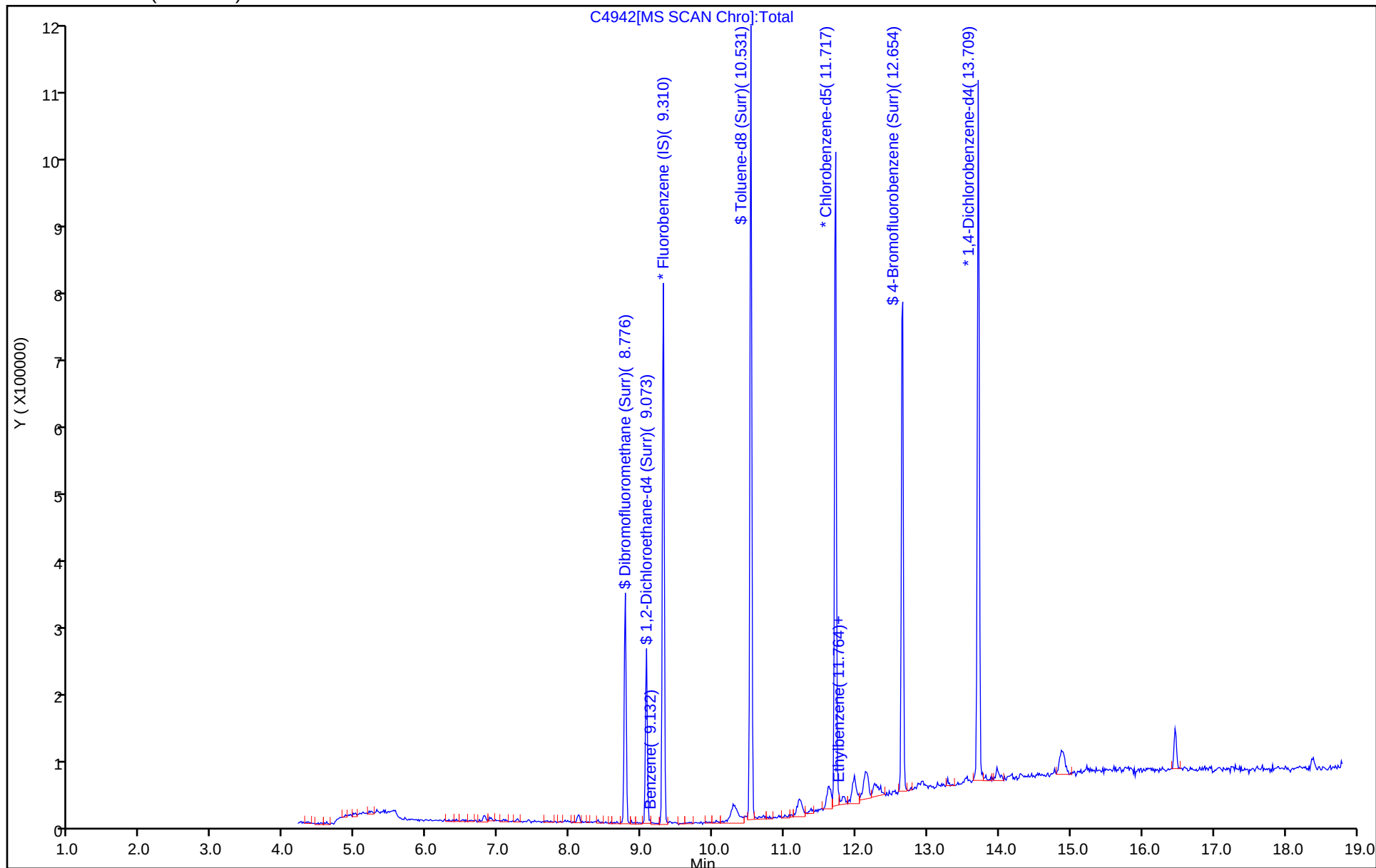
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4942.D

Injection Date: 26-Apr-2018 05:04:30

Instrument ID: HP5973C

Lims ID: 480-134358-E-7

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: KN

ALS Bottle#: 21 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

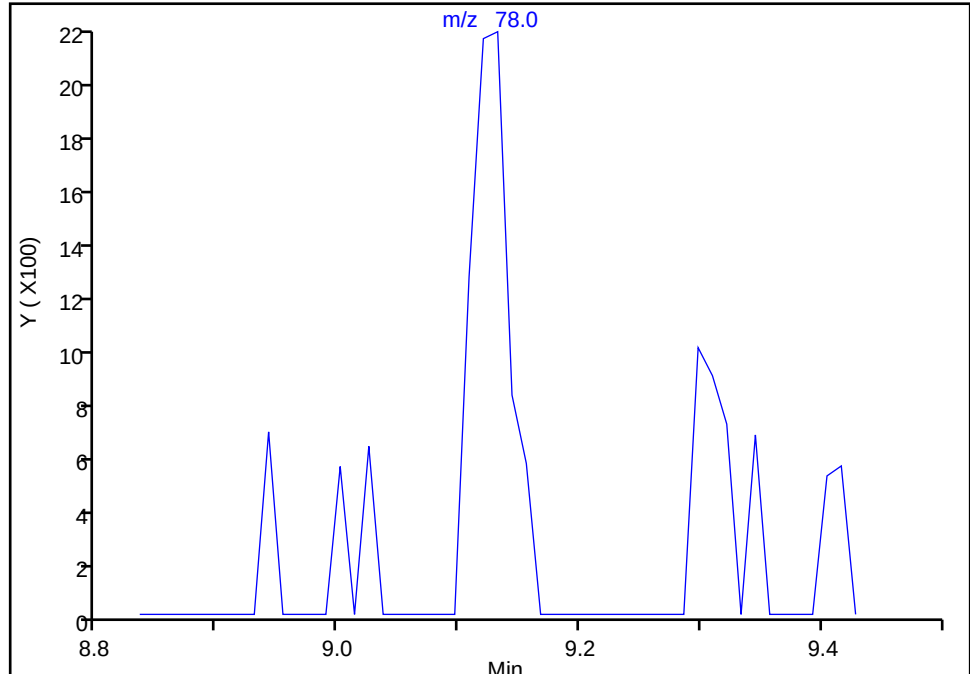
57 Benzene, CAS: 71-43-2

Signal: 1

Not Detected

Expected RT: 9.12

Processing Integration Results



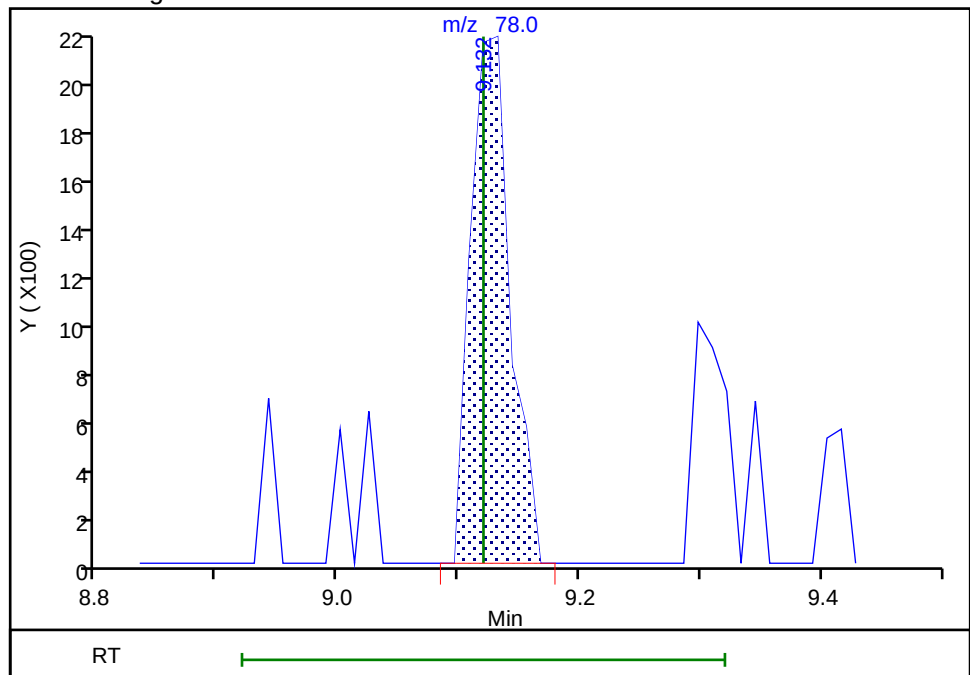
RT: 9.13

Area: 4794

Amount: 0.102123

Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 26-Apr-2018 14:35:48

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4942.D

Injection Date: 26-Apr-2018 05:04:30

Instrument ID: HP5973C

Lims ID: 480-134358-E-7

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: KN

ALS Bottle#: 21 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

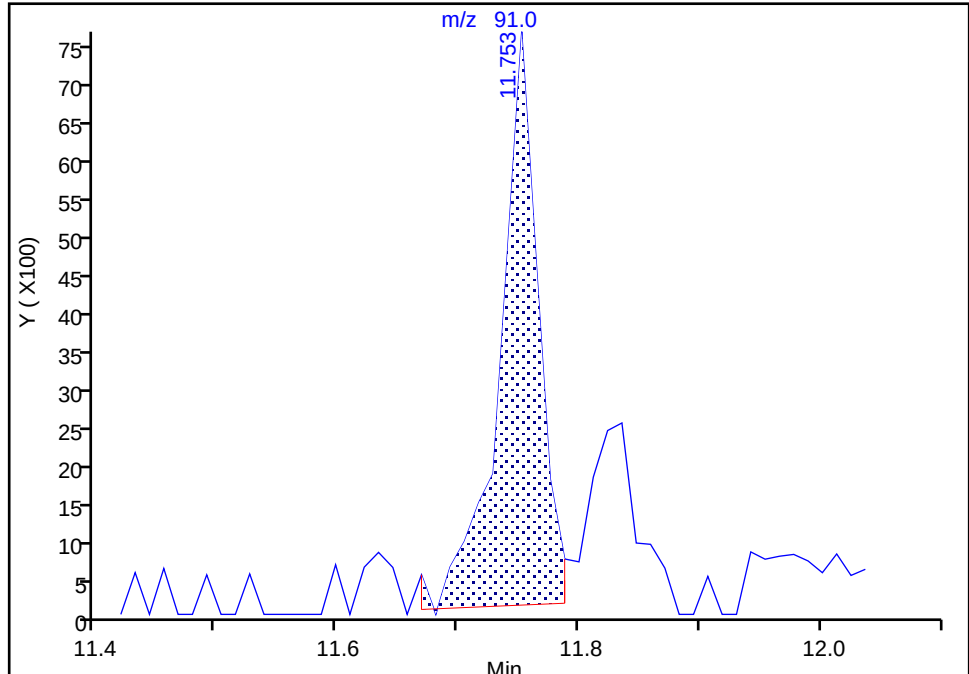
Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4

Signal: 1

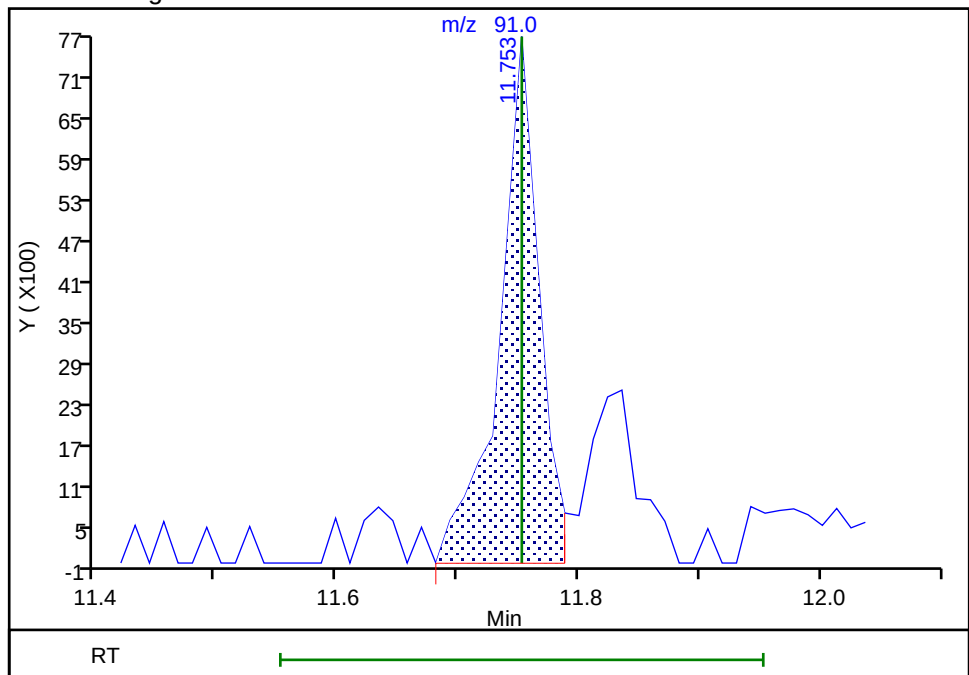
RT: 11.75
Area: 17005
Amount: 0.279334
Amount Units: ug/L

Processing Integration Results



RT: 11.75
Area: 17483
Amount: 0.287185
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 26-Apr-2018 14:36:07

Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

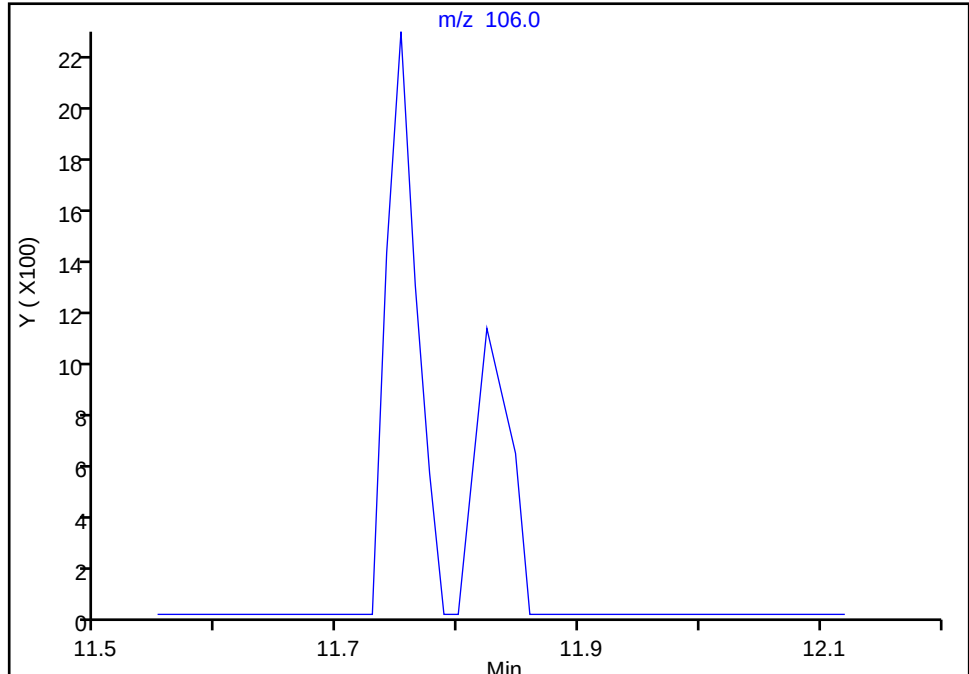
Data File:	\\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4942.D				
Injection Date:	26-Apr-2018 05:04:30	Instrument ID:	HP5973C		
Lims ID:	480-134358-E-7	Lab Sample ID:	480-134358-7		
Client ID:	MW-10				
Operator ID:	KN	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

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

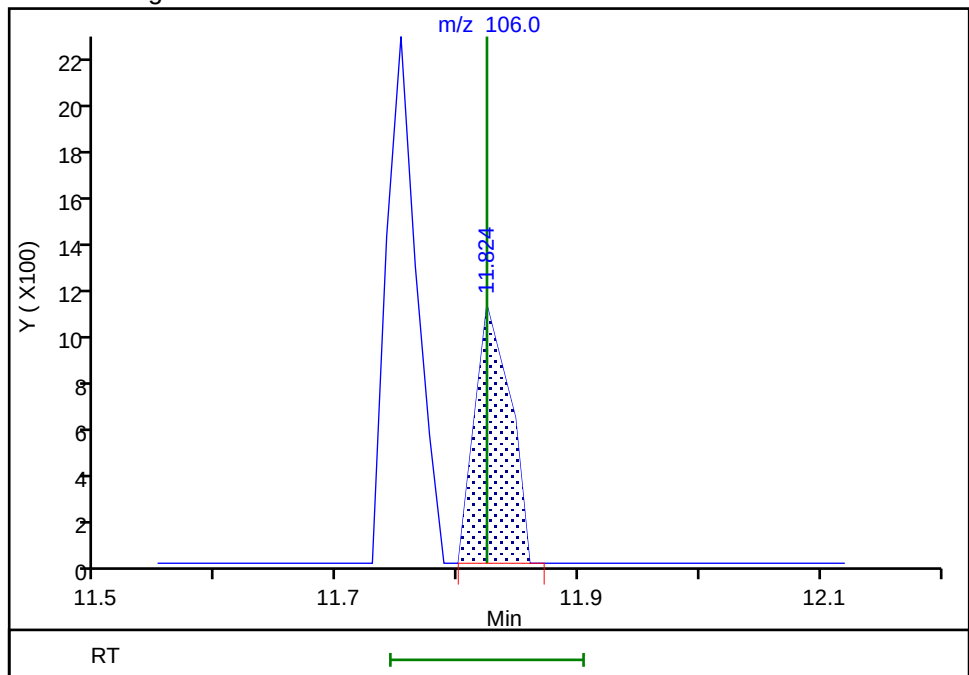
Signal: 1

Not Detected
Expected RT: 11.82

Processing Integration Results

RT: 11.82
Area: 2196
Amount: 0.094296
Amount Units: ug/L

Manual Integration Results

Reviewer: reiler, 26-Apr-2018 14:36:11
Audit Action: Assigned Compound IDAudit Reason: Baseline
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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>TB</u>	Lab Sample ID: <u>480-134358-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4943.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/17/2018 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 05:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4943.D
 Lims ID: 480-134358-A-8
 Client ID: TB
 Sample Type: Client
 Inject. Date: 26-Apr-2018 05:29:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134358-a-8
 Misc. Info.: 480-0070975-023
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:36:38 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 14:36:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	141395	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	84	312873	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	339886	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	94	200432	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.061	0.011	98	89962	24.6	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	812021	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	268707	25.5	
57 Benzene	78		9.120				ND	
74 Toluene	92		10.591				ND	
88 Ethylbenzene	91	11.752	11.752	-0.001	1	7483	0.1217	Ma
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4943.D

Injection Date: 26-Apr-2018 05:29:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134358-A-8

Lab Sample ID: 480-134358-8

Worklist Smp#: 23

Client ID: TB

Purge Vol: 5.000 mL

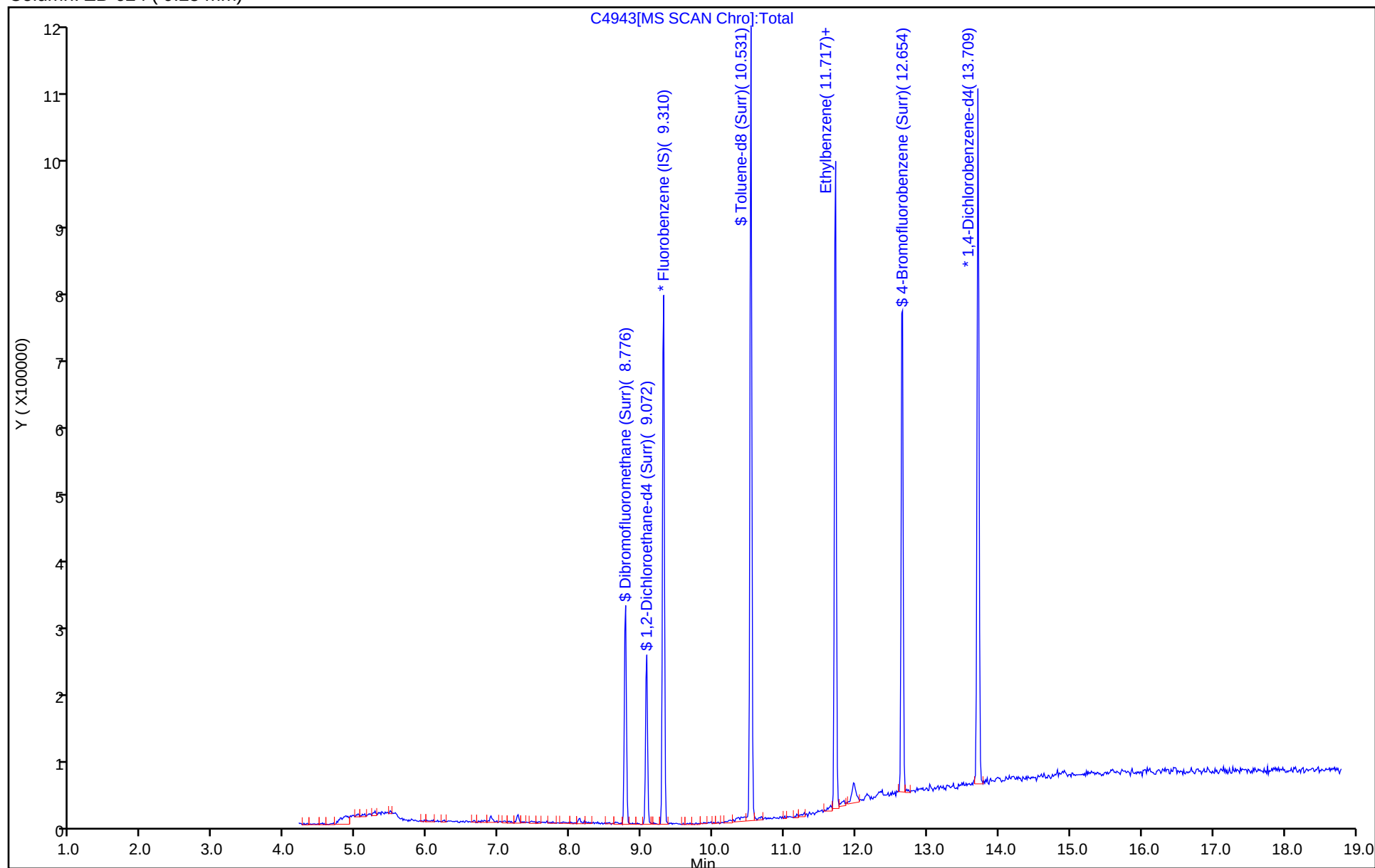
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

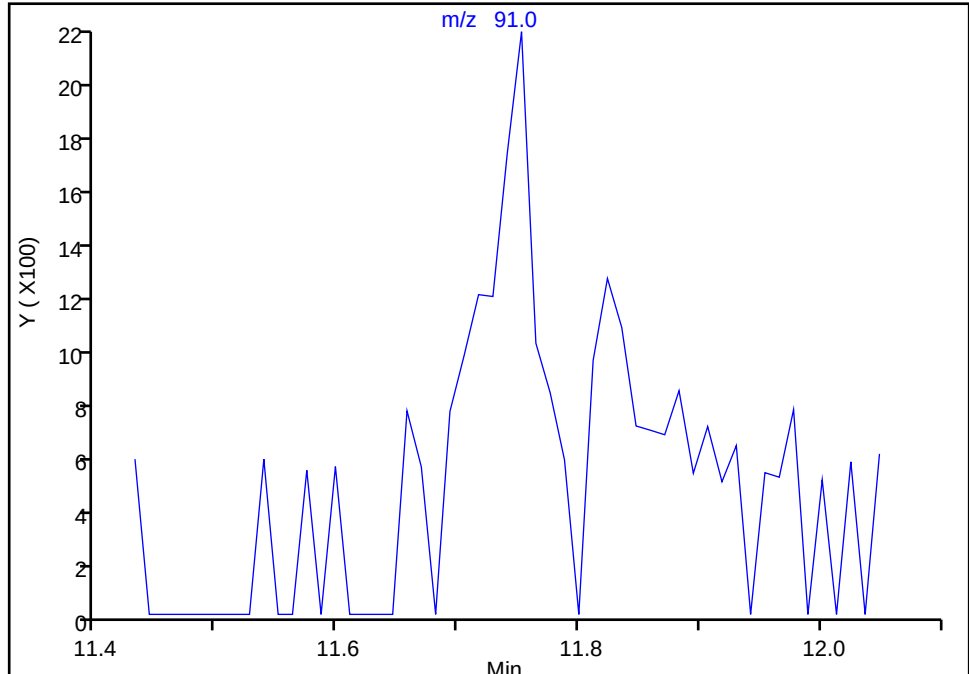
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4943.D
Injection Date: 26-Apr-2018 05:29:30 Instrument ID: HP5973C
Lims ID: 480-134358-A-8 Lab Sample ID: 480-134358-8
Client ID: TB
Operator ID: KN ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4

Signal: 1

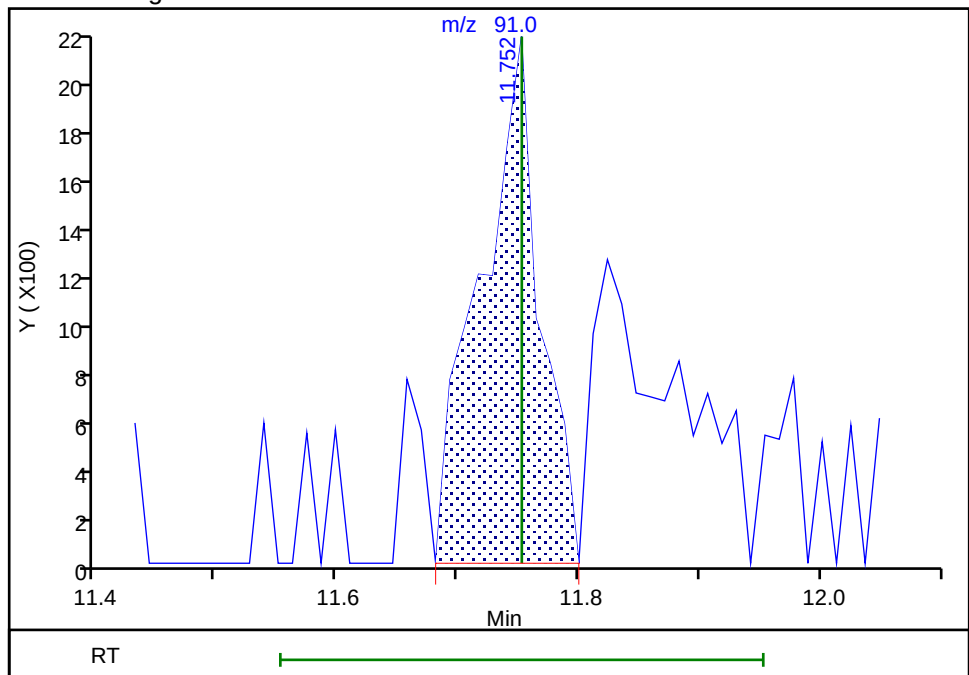
Not Detected
Expected RT: 11.75

Processing Integration Results



Manual Integration Results

RT: 11.75
Area: 7483
Amount: 0.121685
Amount Units: ug/L



Reviewer: reiler, 26-Apr-2018 14:36:34
Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography
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05/30/2018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-17</u>	Lab Sample ID: <u>480-134444-1</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4961.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 13:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 14:59</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	4.0	U	4.0	1.6
100-41-4	Ethylbenzene	4.0	U	4.0	3.0
108-88-3	Toluene	4.0	U	4.0	2.0
1330-20-7	Xylenes, Total	8.0	U	8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4961.D
 Lims ID: 480-134444-E-1
 Client ID: MW-17
 Sample Type: Client
 Inject. Date: 26-Apr-2018 14:59:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Sample Info: 480-134444-e-1
 Misc. Info.: 480-0070985-017
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:09:41 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: nowakk

Date: 26-Apr-2018 16:25:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	134267	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	299978	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	332211	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	187428	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.072	0.000	98	85288	24.6	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	762412	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	255915	25.3	
57 Benzene	78		9.120				ND	
74 Toluene	92		10.590				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4961.D

Injection Date: 26-Apr-2018 14:59:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-134444-E-1

Lab Sample ID: 480-134444-1

Worklist Smp#: 17

Client ID: MW-17

Purge Vol: 5.000 mL

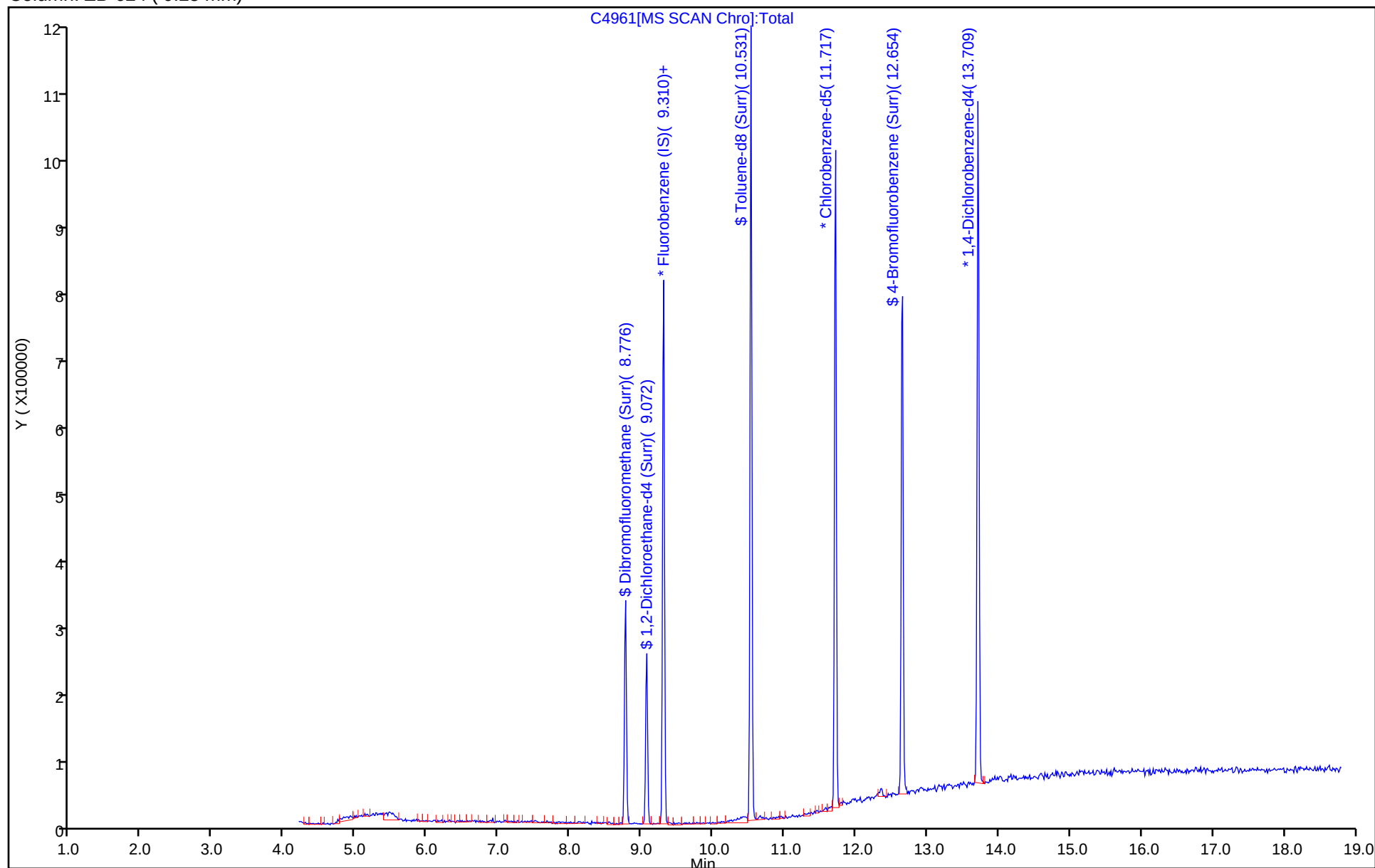
Dil. Factor: 4.0000

ALS Bottle#: 16

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-11A</u>	Lab Sample ID: <u>480-134444-4</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4962.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 15:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	4.2		4.0	1.6
100-41-4	Ethylbenzene	4.0	U	4.0	3.0
108-88-3	Toluene	4.0	U	4.0	2.0
1330-20-7	Xylenes, Total	8.0	U	8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4962.D
 Lims ID: 480-134444-F-4
 Client ID: MW-11A
 Sample Type: Client
 Inject. Date: 26-Apr-2018 15:24:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Sample Info: 480-134444-f-4
 Misc. Info.: 480-0070985-018
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:09:41 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: nowakk

Date: 26-Apr-2018 16:26:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	137182	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	301103	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	95	327735	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	188107	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.072	0.001	97	82832	23.4	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	765718	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	253413	25.0	
57 Benzene	78	9.120	9.120	0.000	97	48191	1.05	
74 Toluene	92		10.590				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4962.D

Injection Date: 26-Apr-2018 15:24:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-134444-F-4

Lab Sample ID: 480-134444-4

Worklist Smp#: 18

Client ID: MW-11A

Purge Vol: 5.000 mL

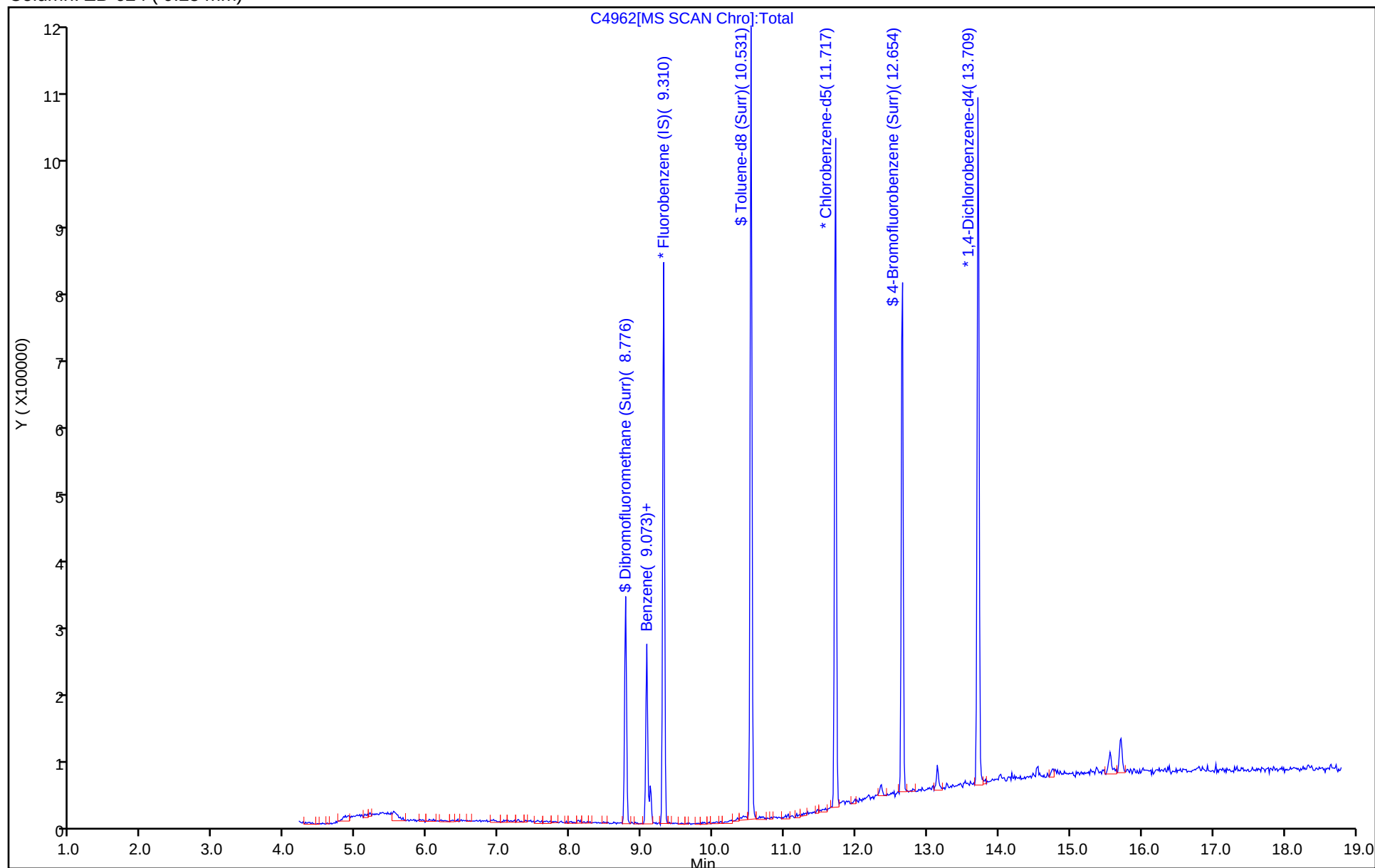
Dil. Factor: 4.0000

ALS Bottle#: 17

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4962.D

Injection Date: 26-Apr-2018 15:24:30

Instrument ID: HP5973C

Lims ID: 480-134444-F-4

Lab Sample ID: 480-134444-4

Client ID: MW-11A

Operator ID: RR

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 5.000 mL

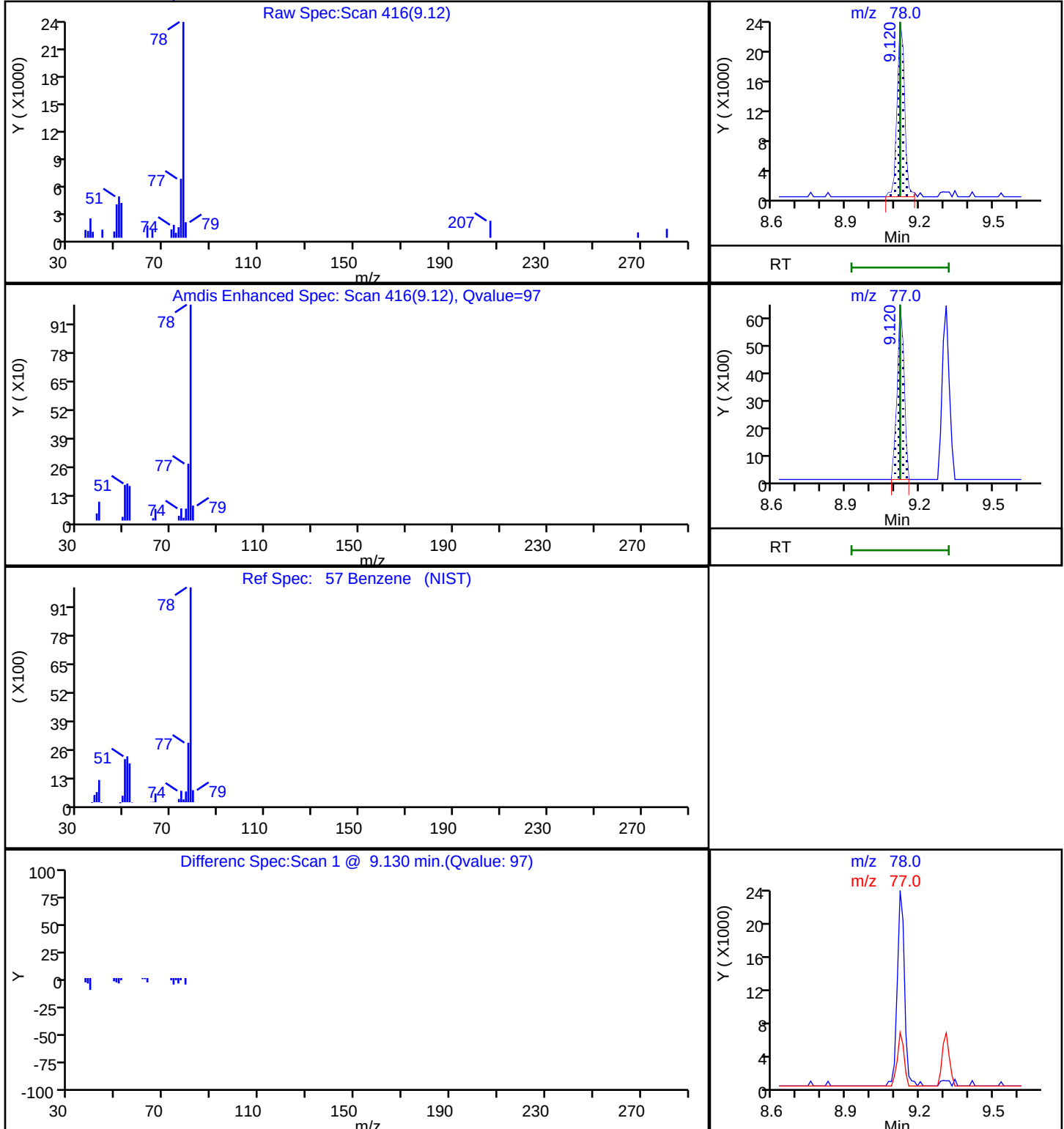
Dil. Factor: 4.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-19</u>	Lab Sample ID: <u>480-134444-5</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4963.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 10:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 15:49</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>100</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	5400		100	41
100-41-4	Ethylbenzene	600		100	74
108-88-3	Toluene	100	U	100	51
1330-20-7	Xylenes, Total	200	U	200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4963.D
 Lims ID: 480-134444-C-5
 Client ID: MW-19
 Sample Type: Client
 Inject. Date: 26-Apr-2018 15:49:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-134444-c-5
 Misc. Info.: 480-0070985-019
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:09:41 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: nowakk

Date: 26-Apr-2018 16:26:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	135760	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	297107	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	96	328589	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	193002	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.072	0.001	98	89198	25.4	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	768452	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	259192	25.9	
57 Benzene	78	9.120	9.120	0.000	95	2477447	54.4	
74 Toluene	92		10.590				ND	
88 Ethylbenzene	91	11.753	11.753	0.000	98	349563	5.99	
90 m-Xylene & p-Xylene	106	11.836	11.824	0.012	94	5377	0.2407	
91 o-Xylene	106	12.180	12.180	0.000	97	16719	0.7477	
S 124 Xylenes, Total	1				0		0.9884	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4963.D

Injection Date: 26-Apr-2018 15:49:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-134444-C-5

Lab Sample ID: 480-134444-5

Worklist Smp#: 19

Client ID: MW-19

Purge Vol: 5.000 mL

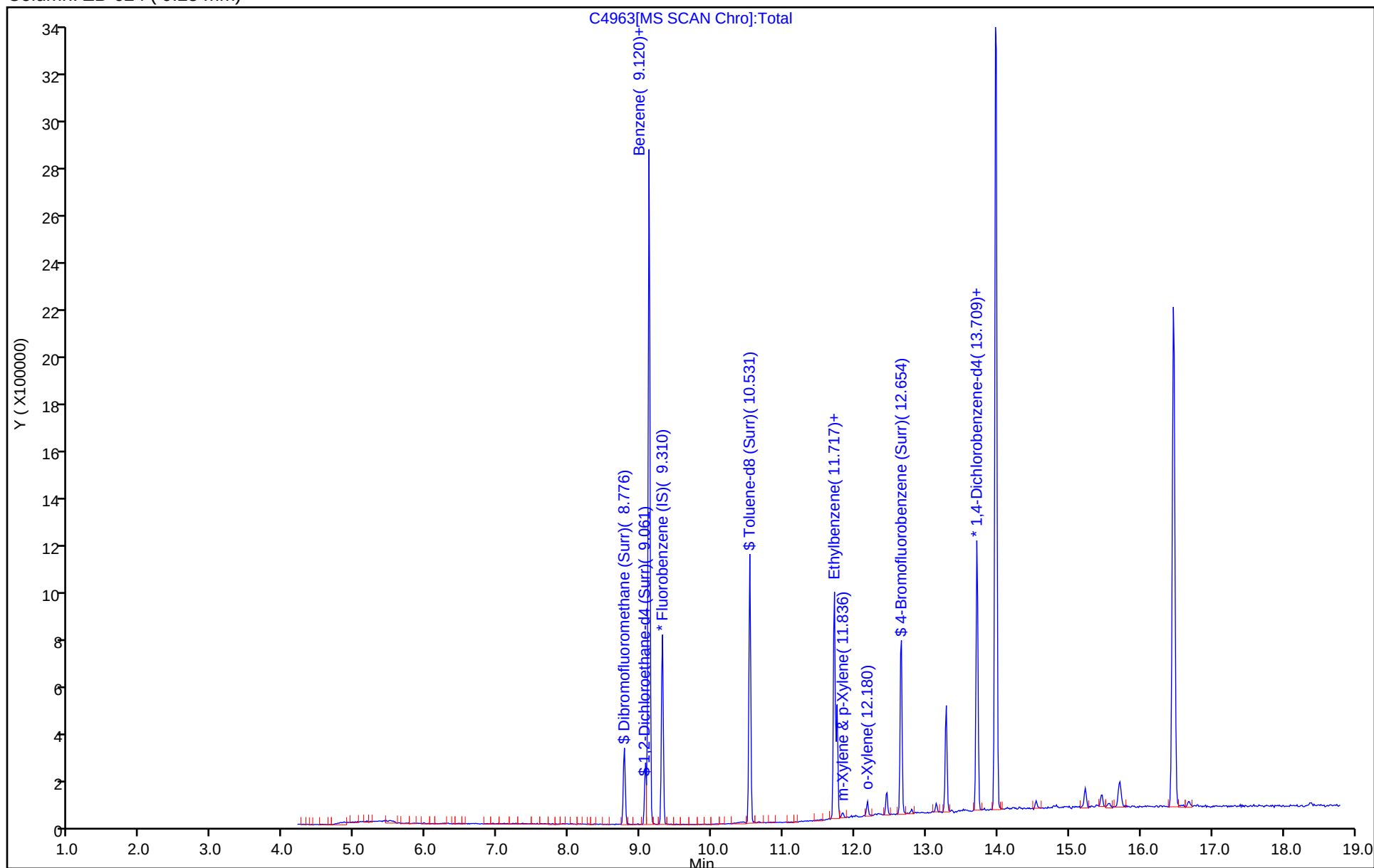
Dil. Factor: 100.0000

ALS Bottle#: 18

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4963.D

Injection Date: 26-Apr-2018 15:49:30

Instrument ID: HP5973C

Lims ID: 480-134444-C-5

Lab Sample ID: 480-134444-5

Client ID: MW-19

Operator ID: RR

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

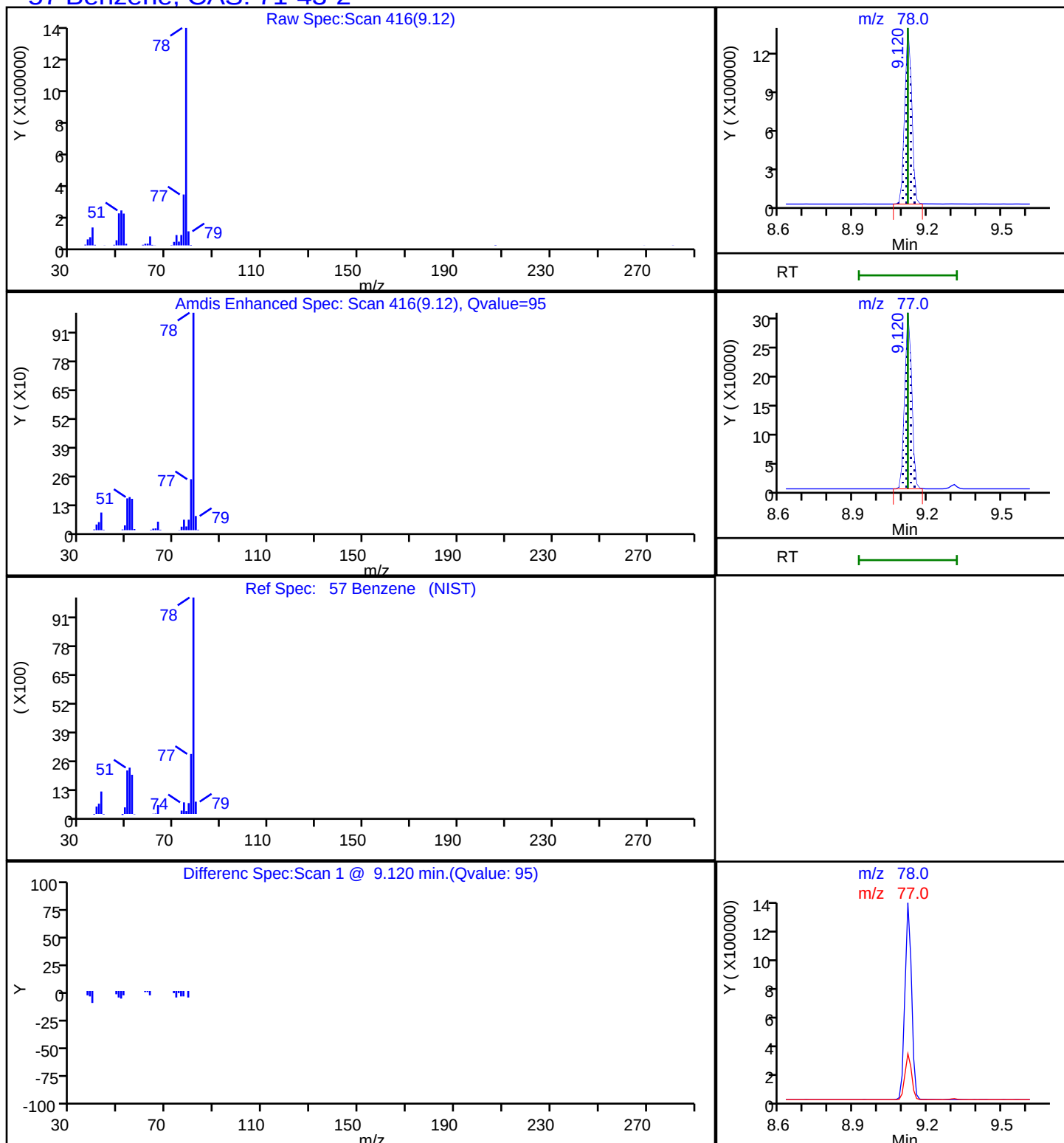
Dil. Factor: 100.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4963.D

Injection Date: 26-Apr-2018 15:49:30

Instrument ID: HP5973C

Lims ID: 480-134444-C-5

Lab Sample ID: 480-134444-5

Client ID: MW-19

Operator ID: RR

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

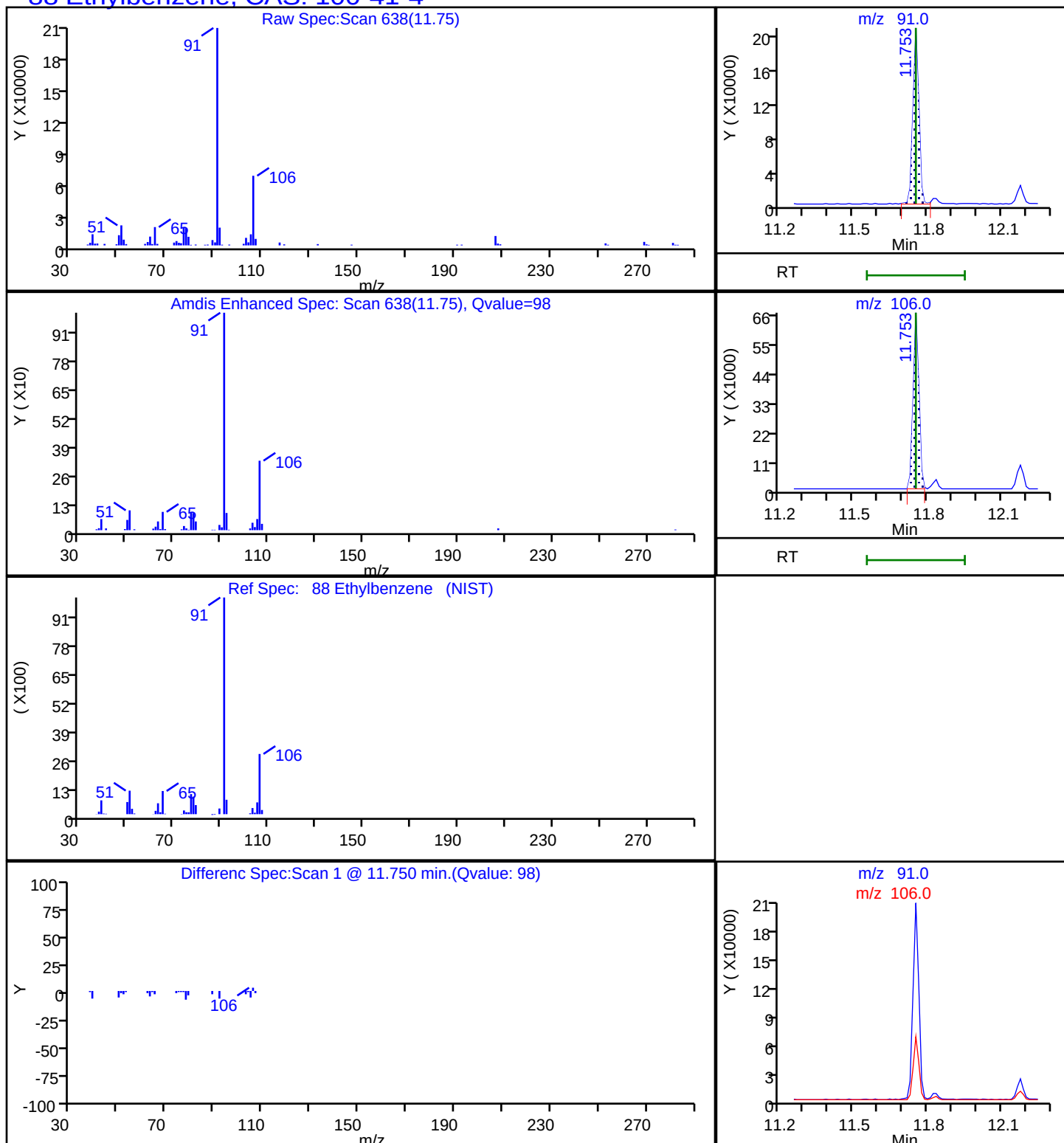
Dil. Factor: 100.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>SW-01</u>	Lab Sample ID: <u>480-134444-6</u>
Matrix: <u>Surface Water</u>	Lab File ID: <u>C4964.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 14:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 16:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4964.D
 Lims ID: 480-134444-F-6
 Client ID: SW-01
 Sample Type: Client
 Inject. Date: 26-Apr-2018 16:15:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134444-f-6
 Misc. Info.: 480-0070985-020
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 15:25:16 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: nowakk

Date: 26-Apr-2018 17:52:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	136232	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	304307	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	337347	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	191632	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.072	0.001	99	87714	24.9	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	777215	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	257690	25.2	
57 Benzene	78		9.120				ND	
74 Toluene	92		10.590				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4964.D

Injection Date: 26-Apr-2018 16:15:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-134444-F-6

Lab Sample ID: 480-134444-6

Worklist Smp#: 20

Client ID: SW-01

Purge Vol: 5.000 mL

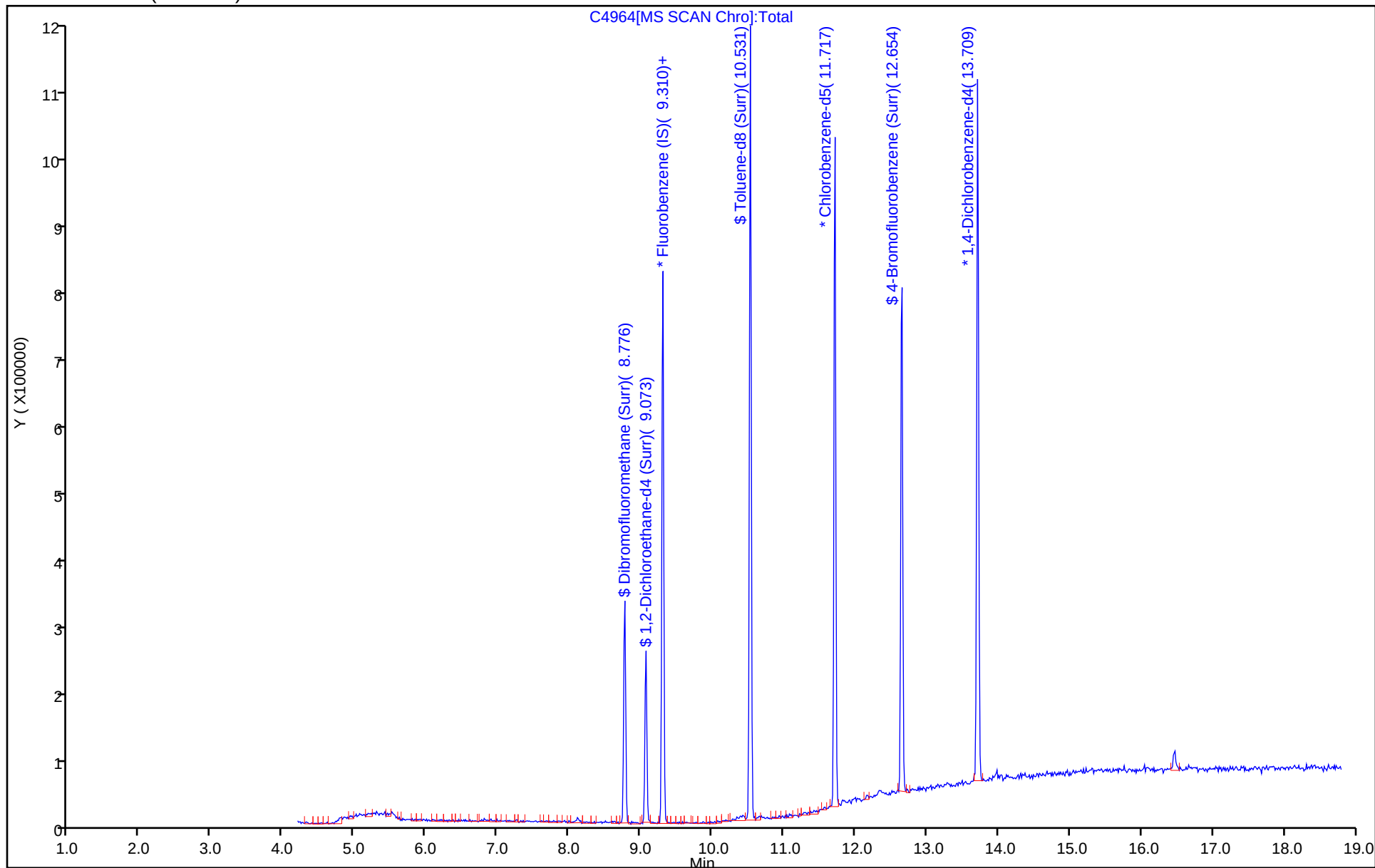
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>SW-02</u>	Lab Sample ID: <u>480-134444-7</u>
Matrix: <u>Surface Water</u>	Lab File ID: <u>C4965.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 11:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 16:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4965.D
 Lims ID: 480-134444-F-7
 Client ID: SW-02
 Sample Type: Client
 Inject. Date: 26-Apr-2018 16:40:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134444-f-7
 Misc. Info.: 480-0070985-021
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 15:51:48 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: nowakk

Date: 26-Apr-2018 17:52:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	130971	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	306559	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	335562	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	191822	26.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.072	0.000	99	87491	25.8	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	777056	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	257801	25.0	
57 Benzene	78	9.120	9.120	0.000	82	4925	0.1122	
74 Toluene	92		10.590				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4965.D

Injection Date: 26-Apr-2018 16:40:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-134444-F-7

Lab Sample ID: 480-134444-7

Worklist Smp#: 21

Client ID: SW-02

Purge Vol: 5.000 mL

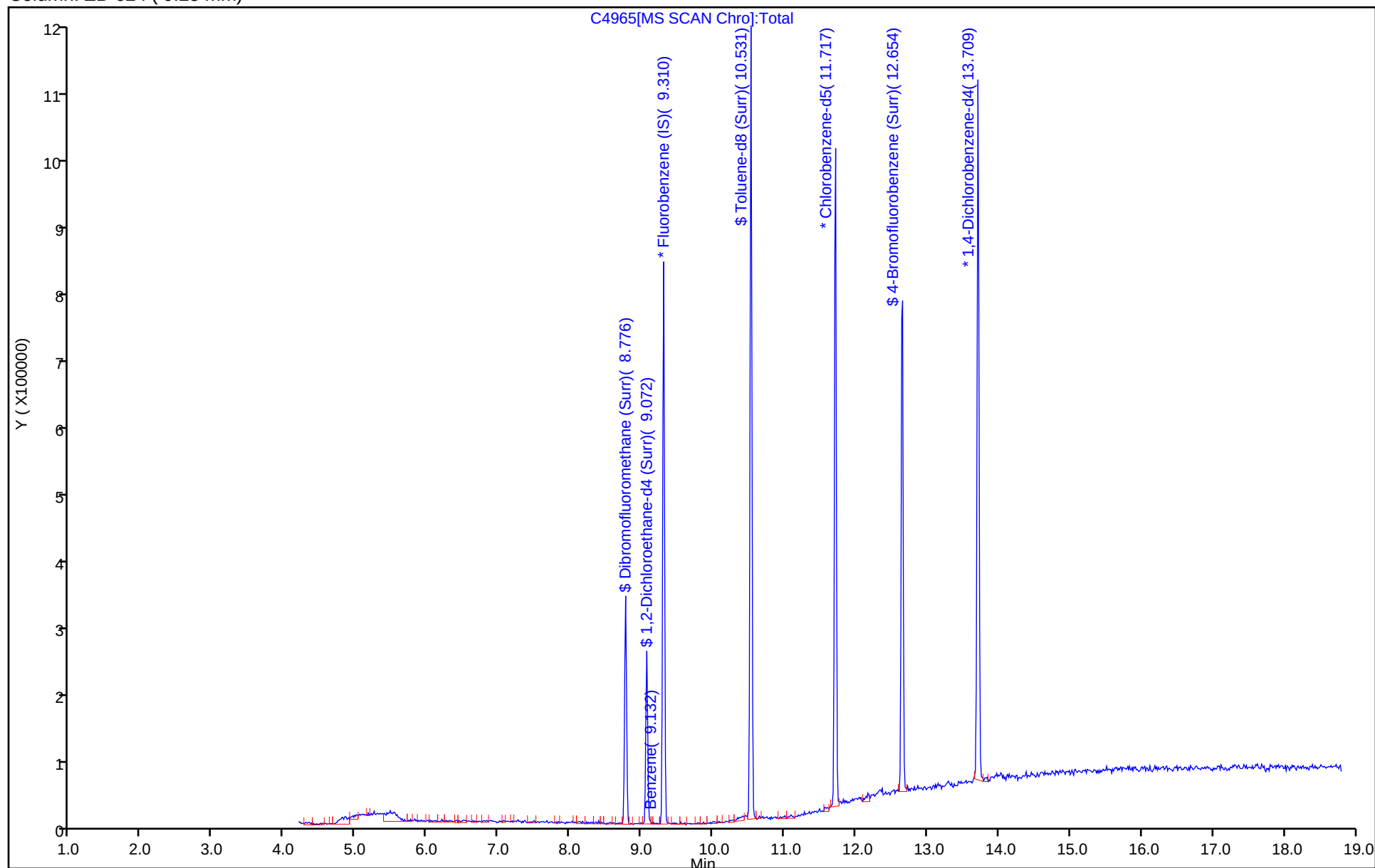
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>Duplicate</u>	Lab Sample ID: <u>480-134444-11</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4993.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/27/2018 04:59</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>411190</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	4.5		1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4993.D
 Lims ID: 480-134444-F-11
 Client ID: Duplicate
 Sample Type: Client
 Inject. Date: 27-Apr-2018 04:59:30 ALS Bottle#: 21 Worklist Smp#: 41
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134444-f-11
 Misc. Info.: 480-0071016-041
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Apr-2018 08:31:26 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: reiler

Date: 27-Apr-2018 08:31:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	130806	25.0	
* 2 Chlorobenzene-d5	82	11.705	11.717	-0.012	86	297904	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	327093	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	188730	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.072	0.001	98	86443	25.6	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	764372	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	251370	25.1	
57 Benzene	78	9.120	9.120	0.000	95	197961	4.52	
74 Toluene	92	10.579	10.579	-0.011	26	1961	0.0651	7a
88 Ethylbenzene	91	11.753	11.753	0.001	1	1816	0.0310	7Ma
90 m-Xylene & p-Xylene	106	11.836	11.836	0.012	29	2730	0.1219	a
91 o-Xylene	106	12.179	12.179	0.000	11	2559	0.1141	a
S 124 Xylenes, Total	1				0		0.2360	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4993.D

Injection Date: 27-Apr-2018 04:59:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134444-F-11

Lab Sample ID: 480-134444-11

Worklist Smp#: 41

Client ID: Duplicate

Purge Vol: 5.000 mL

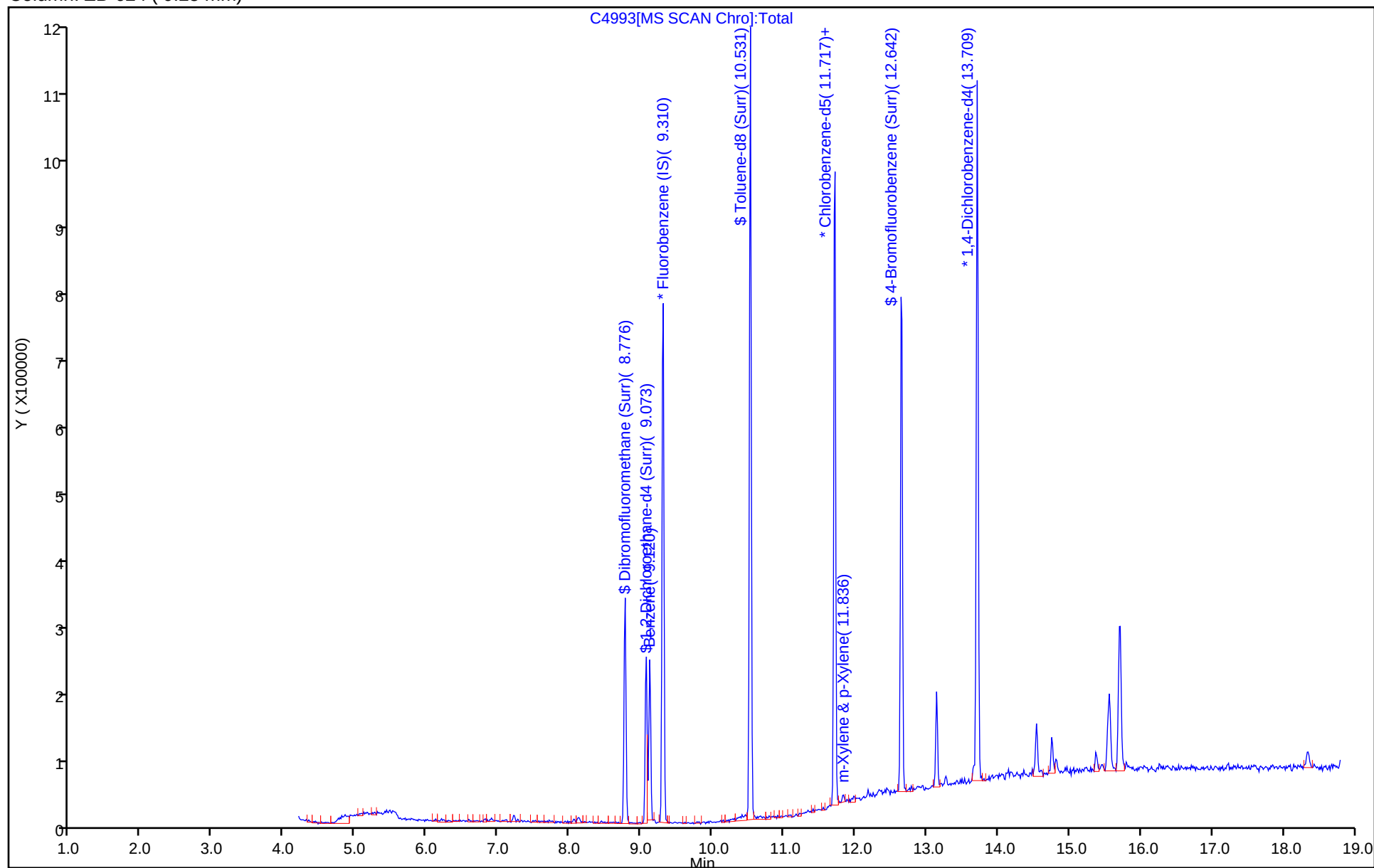
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4993.D

Injection Date: 27-Apr-2018 04:59:30

Instrument ID: HP5973C

Lims ID: 480-134444-F-11

Lab Sample ID: 480-134444-11

Client ID: Duplicate

Operator ID: KN

ALS Bottle#: 21

Worklist Smp#: 41

Purge Vol: 5.000 mL

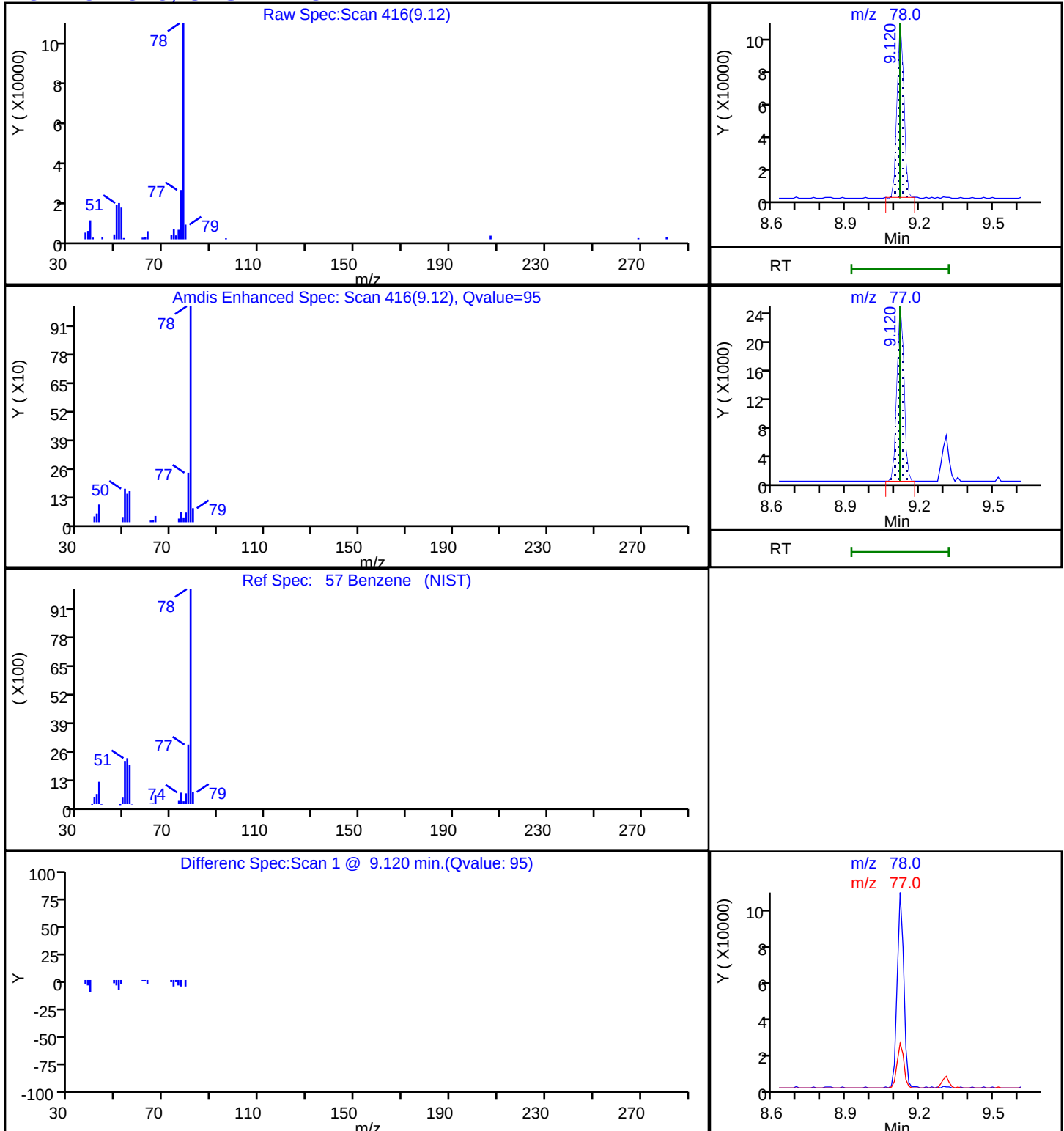
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

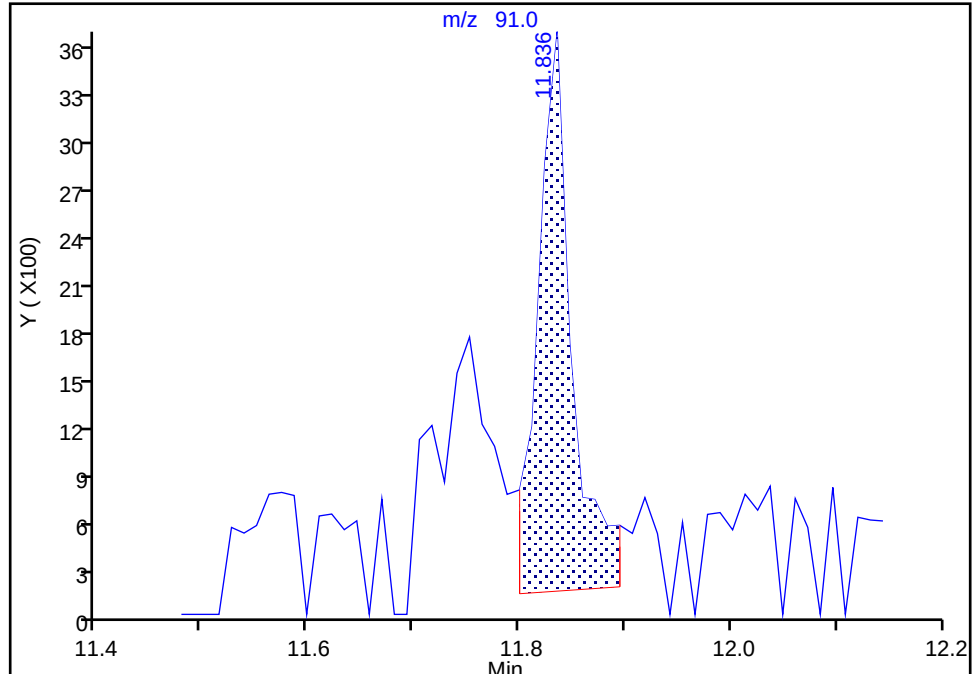
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4993.D
Injection Date: 27-Apr-2018 04:59:30 Instrument ID: HP5973C
Lims ID: 480-134444-F-11 Lab Sample ID: 480-134444-11
Client ID: Duplicate
Operator ID: KN ALS Bottle#: 21 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4

Signal: 1

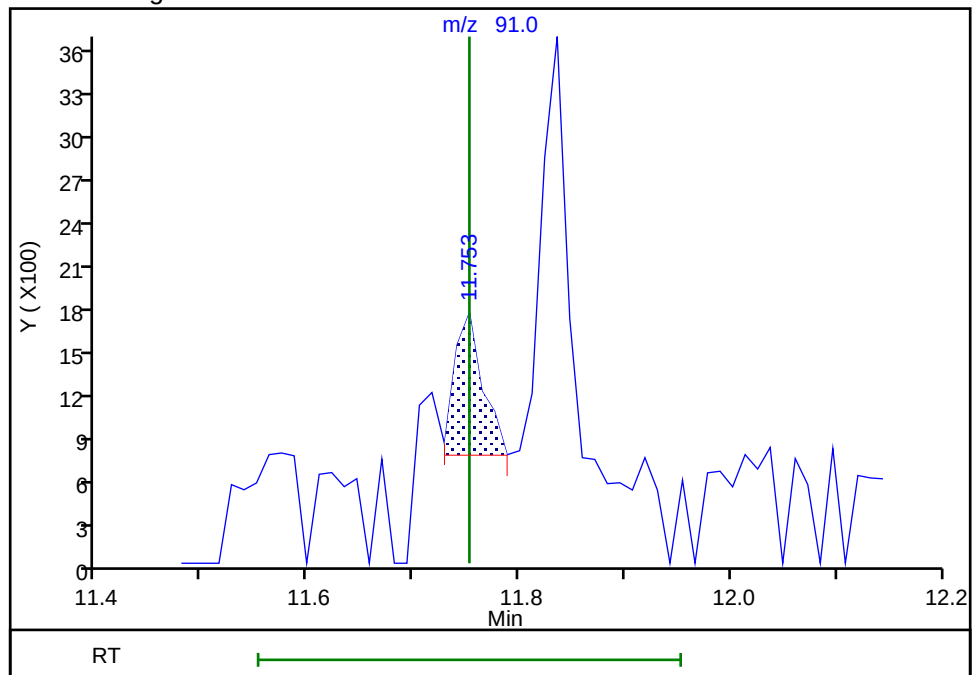
RT: 11.84
Area: 7969
Amount: 0.136100
Amount Units: ug/L

Processing Integration Results



RT: 11.75
Area: 1816
Amount: 0.031015
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 27-Apr-2018 08:31:15
Audit Action: Manually Integrated

Audit Reason: Split Peak
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TestAmerica Buffalo

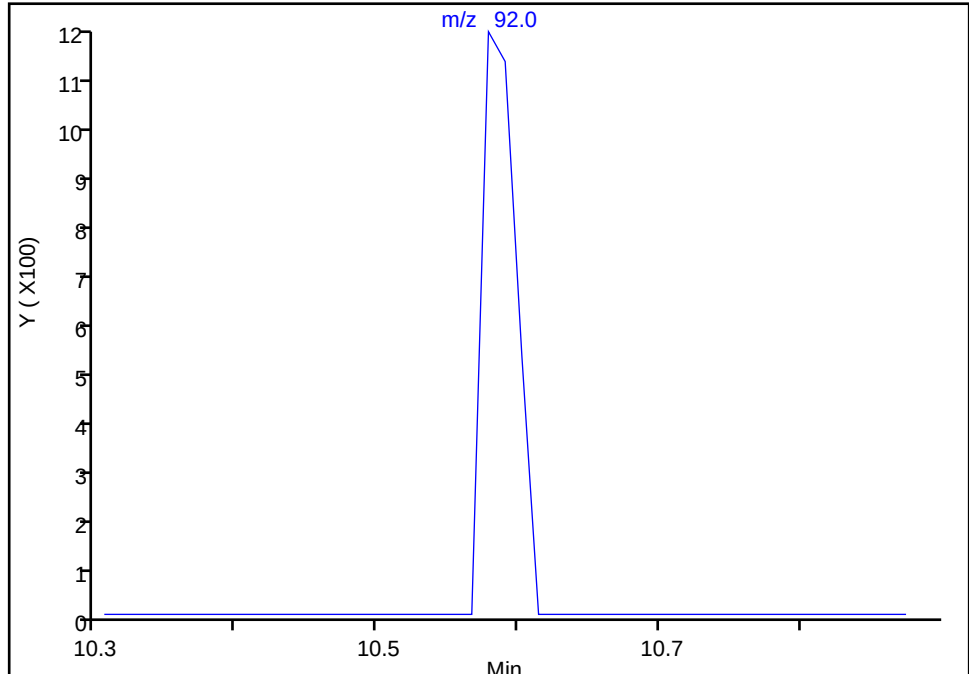
Data File:	\\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4993.D		
Injection Date:	27-Apr-2018 04:59:30	Instrument ID:	HP5973C
Lims ID:	480-134444-F-11	Lab Sample ID:	480-134444-11
Client ID:	Duplicate		
Operator ID:	KN	ALS Bottle#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	C-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	41

74 Toluene, CAS: 108-88-3

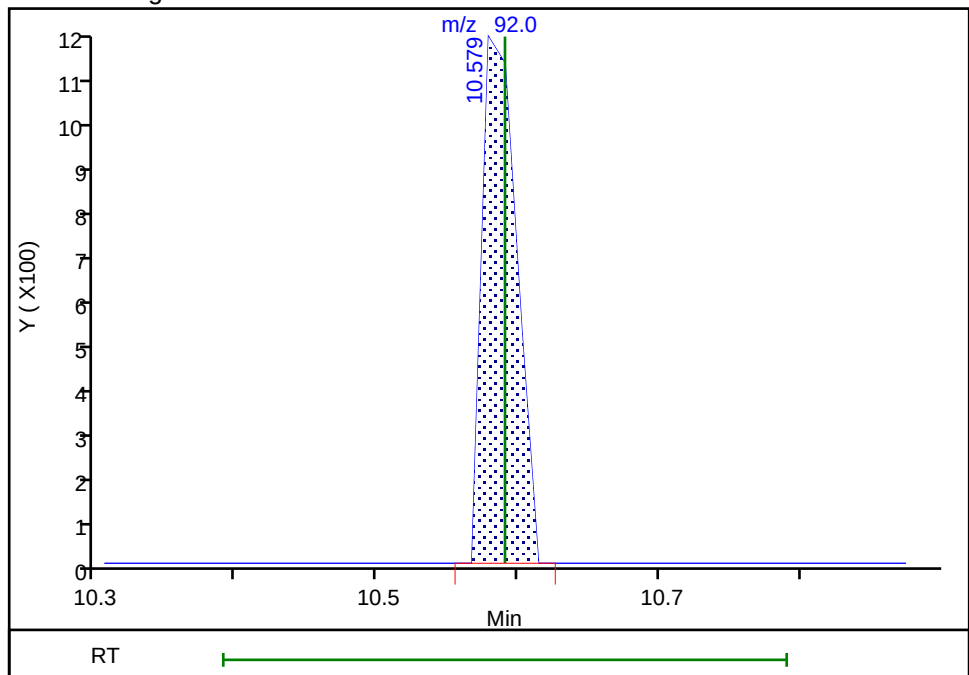
Signal: 1

Not Detected
Expected RT: 10.59

Processing Integration Results

RT: 10.58
Area: 1961
Amount: 0.065084
Amount Units: ug/L

Manual Integration Results

Reviewer: reiler, 27-Apr-2018 08:30:55
Audit Action: Assigned Compound IDAudit Reason: Peak assignment corrected
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TestAmerica Buffalo

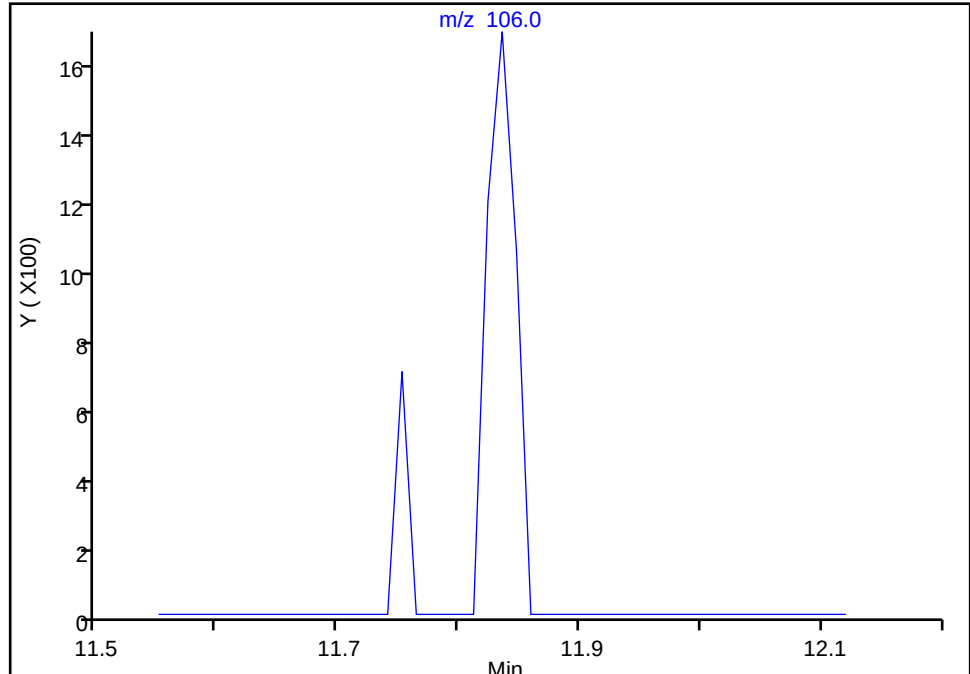
Data File:	\\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4993.D				
Injection Date:	27-Apr-2018 04:59:30	Instrument ID:	HP5973C		
Lims ID:	480-134444-F-11	Lab Sample ID:	480-134444-11		
Client ID:	Duplicate				
Operator ID:	KN	ALS Bottle#:	21	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

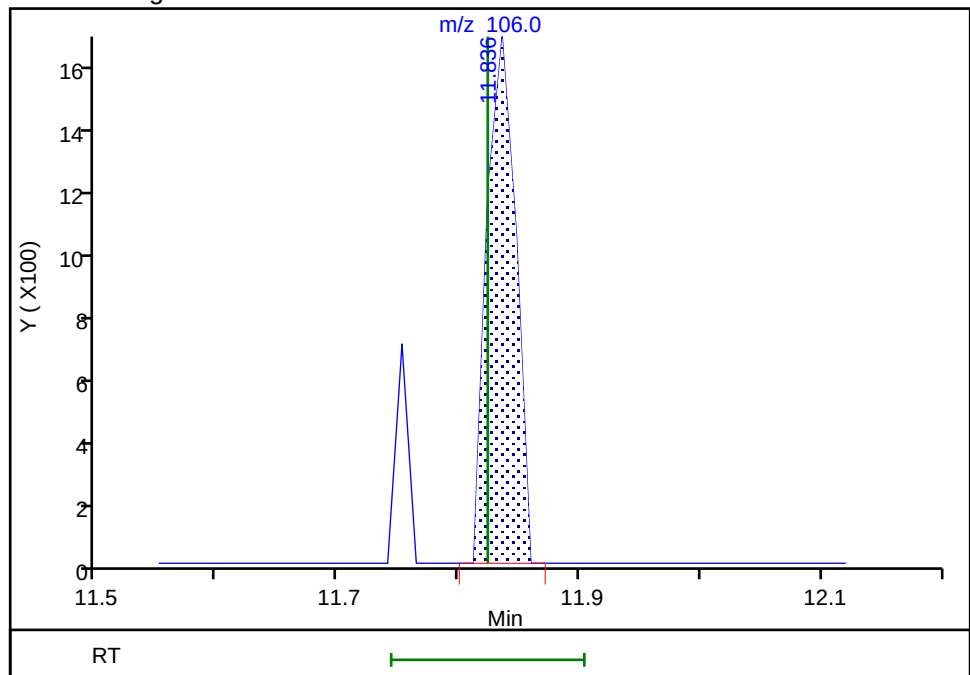
Signal: 1

Not Detected
Expected RT: 11.82

Processing Integration Results



Manual Integration Results

RT: 11.84
Area: 2730
Amount: 0.121879
Amount Units: ug/LReviewer: reiler, 27-Apr-2018 08:31:19
Audit Action: Assigned Compound IDAudit Reason: Split Peak
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TestAmerica Buffalo

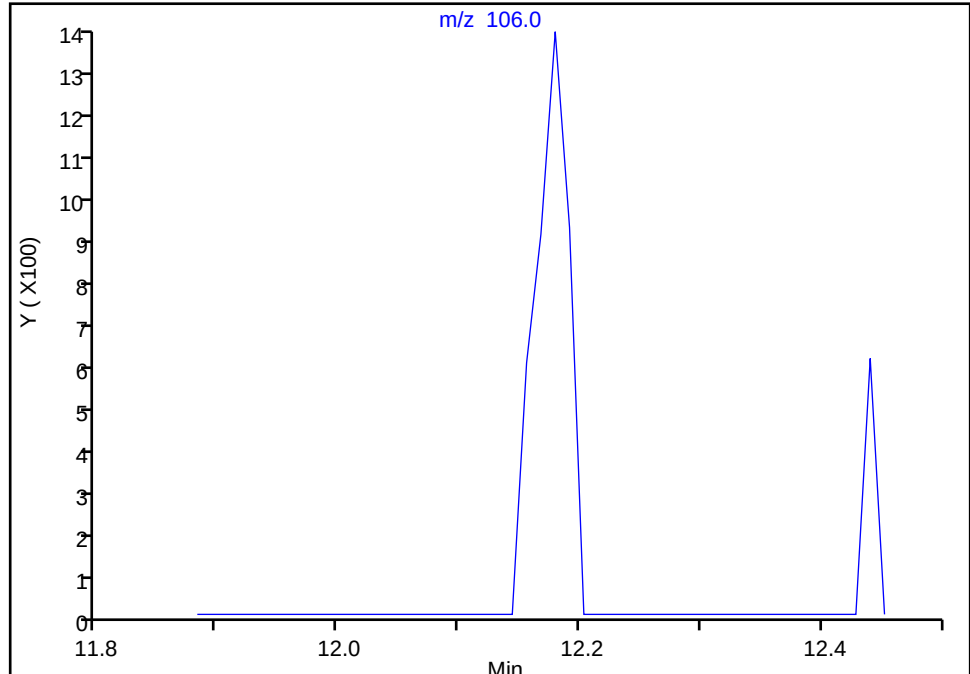
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4993.D
Injection Date: 27-Apr-2018 04:59:30 Instrument ID: HP5973C
Lims ID: 480-134444-F-11 Lab Sample ID: 480-134444-11
Client ID: Duplicate
Operator ID: KN ALS Bottle#: 21 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

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

Signal: 1

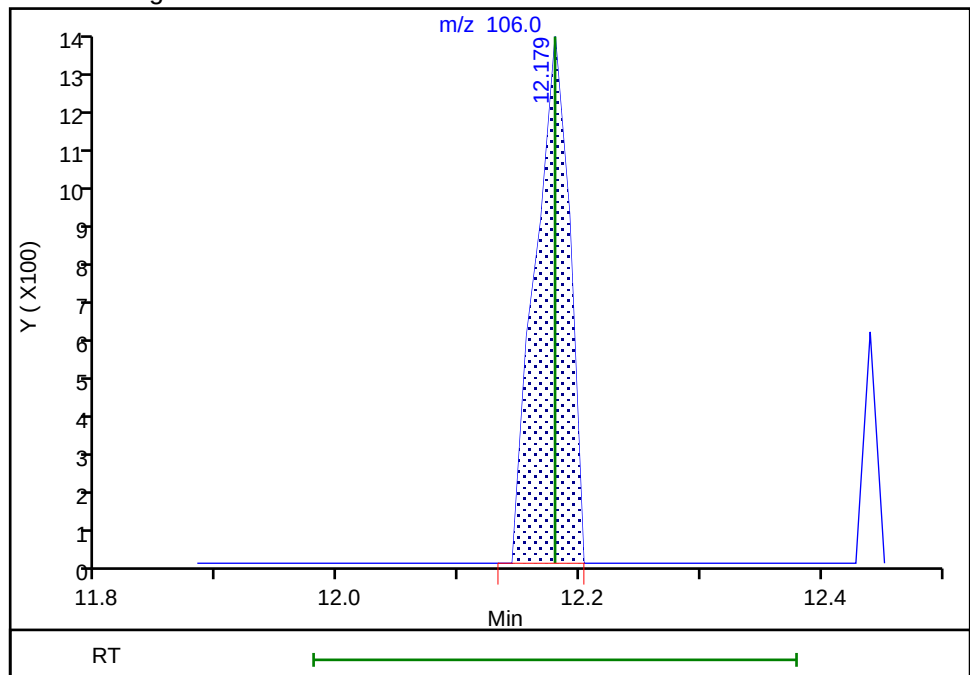
Not Detected
Expected RT: 12.18

Processing Integration Results



RT: 12.18
Area: 2559
Amount: 0.114139
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 27-Apr-2018 08:31:23
Audit Action: Assigned Compound ID

Audit Reason: Split Peak
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05/30/2018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>EB</u>	Lab Sample ID: <u>480-134444-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4967.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 11:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 17:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4967.D
 Lims ID: 480-134444-E-12
 Client ID: EB
 Sample Type: Client
 Inject. Date: 26-Apr-2018 17:31:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134444-e-12
 Misc. Info.: 480-0070985-023
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 15:51:48 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: nowakk

Date: 26-Apr-2018 17:53:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	129815	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	305053	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	334301	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	193662	27.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.072	0.001	99	87669	26.1	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	789127	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	255584	24.9	
57 Benzene	78		9.120				ND	
74 Toluene	92		10.590				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4967.D

Injection Date: 26-Apr-2018 17:31:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-134444-E-12

Lab Sample ID: 480-134444-12

Worklist Smp#: 23

Client ID: EB

Purge Vol: 5.000 mL

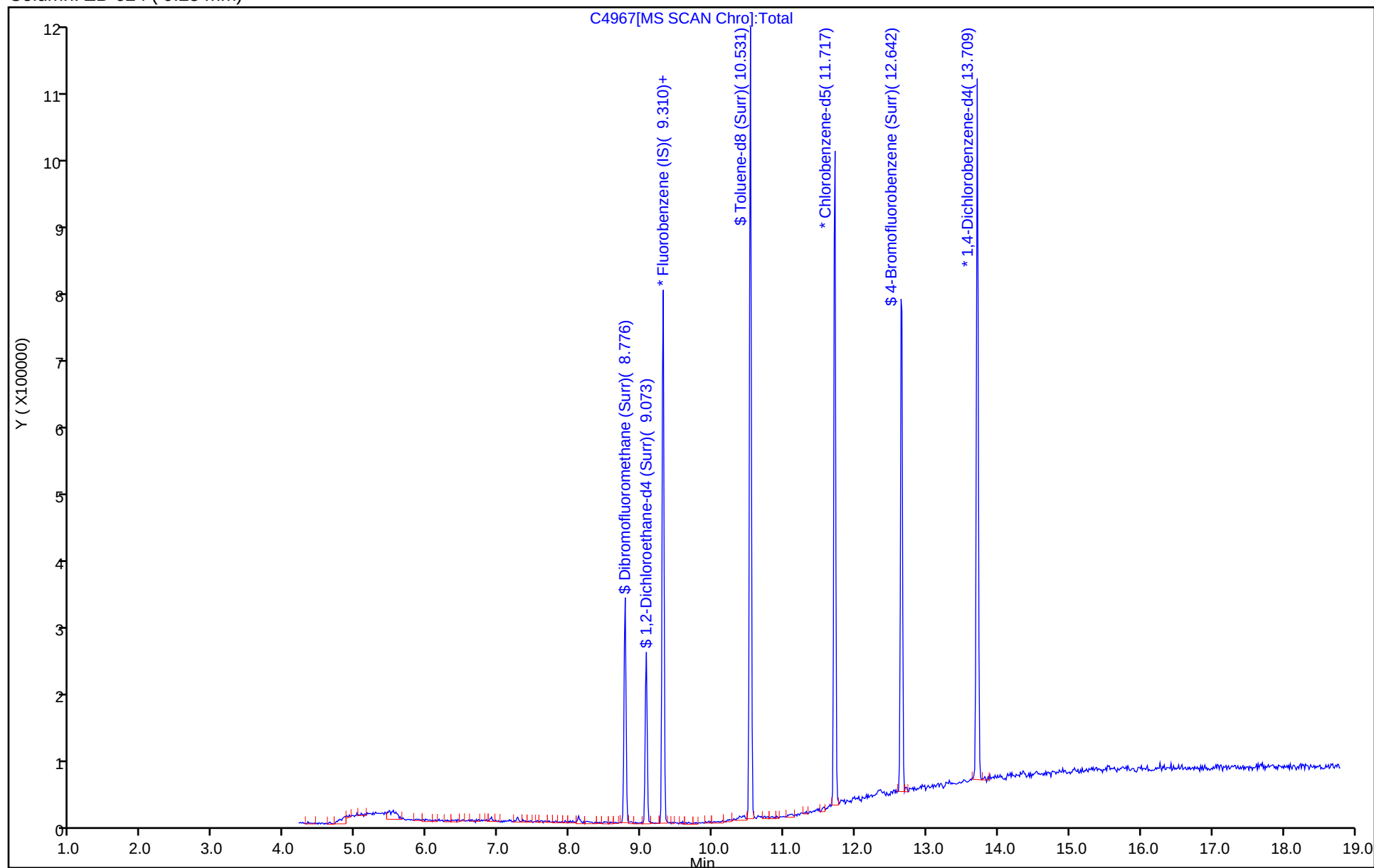
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>TB</u>	Lab Sample ID: <u>480-134444-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4968.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/18/2018 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 17:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4968.D
 Lims ID: 480-134444-A-14
 Client ID: TB
 Sample Type: Client
 Inject. Date: 26-Apr-2018 17:56:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-134444-a-14
 Misc. Info.: 480-0070985-024
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 16:41:27 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: nowakk

Date: 26-Apr-2018 18:43:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	136572	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	299852	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	333225	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	187883	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.072	0.000	99	88407	25.0	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	775524	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	252905	25.1	
57 Benzene	78		9.120				ND	
74 Toluene	92		10.590				ND	
88 Ethylbenzene	91		11.753				ND	
90 m-Xylene & p-Xylene	106		11.824				ND	
91 o-Xylene	106		12.180				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4968.D

Injection Date: 26-Apr-2018 17:56:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-134444-A-14

Lab Sample ID: 480-134444-14

Worklist Smp#: 24

Client ID: TB

Purge Vol: 5.000 mL

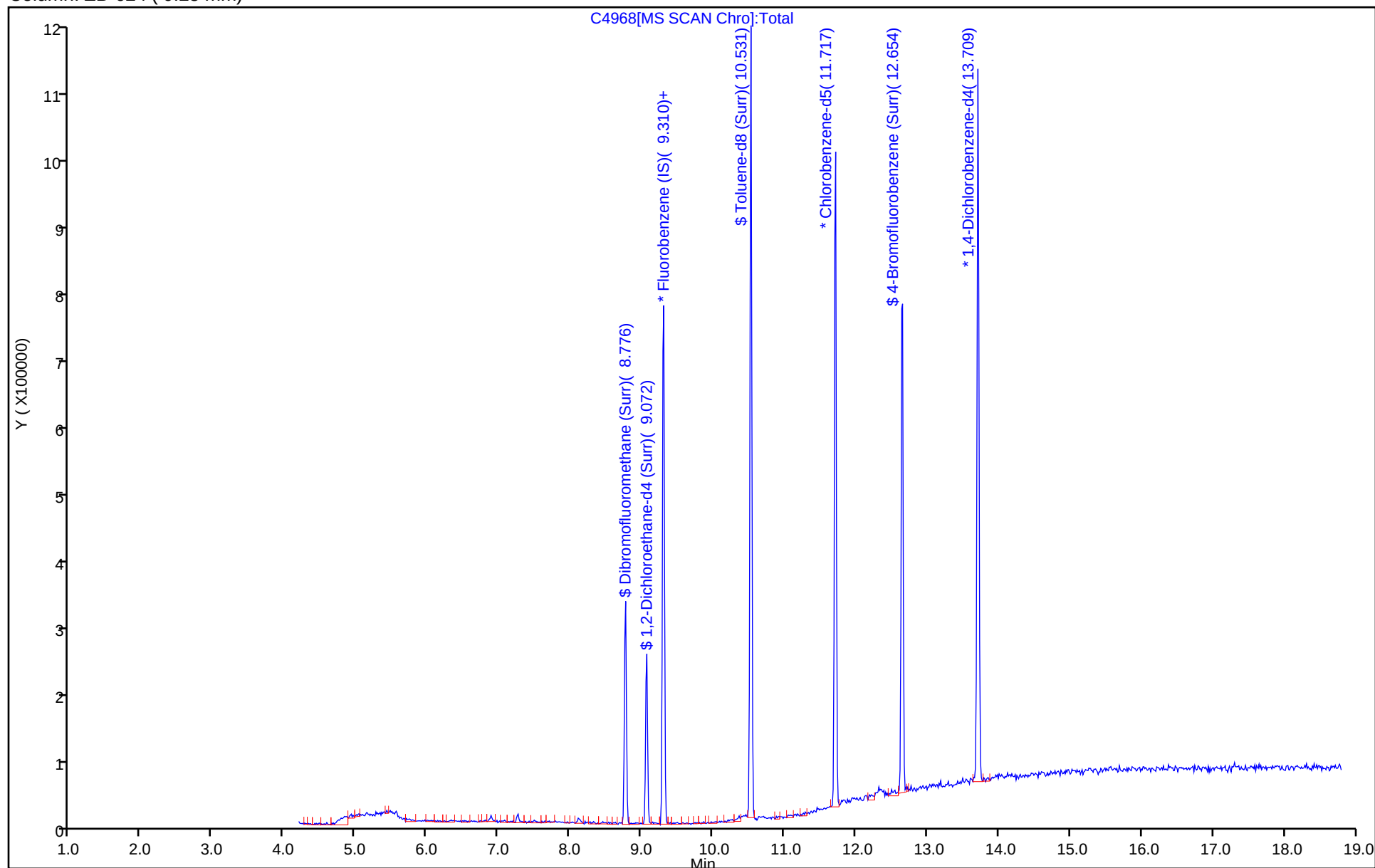
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833

SDG No.: 480-134358-1

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-407833/4	C4171.D
Level 2	IC 480-407833/5	C4172.D
Level 3	IC 480-407833/6	C4173.D
Level 4	IC 480-407833/7	C4174.D
Level 5	IC 480-407833/8	C4175.D
Level 6	ICIS 480-407833/9	C4176.D
Level 7	IC 480-407833/10	C4177.D
Level 8	IC 480-407833/11	C4178.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	2.9132 3.3317	2.9259 3.1103	3.3551 3.5227	3.1706	2.7769	Ave		3.1383			0.1000	8.2		20.0			
Chloromethane	++++ 3.3386	4.4791 3.1480	3.8482 3.2421	3.0937	2.9506	Ave		3.4429			0.1000	15.6		20.0			
Vinyl chloride	++++ 2.9257	2.8625 2.7440	3.0344 2.9971	2.7134	2.5385	Ave		2.8308			0.1000	6.2		20.0			
Butadiene	++++ 2.8904	2.8787 2.7556	3.1083 2.9920	2.7410	2.6037	Ave		2.8528				5.9		20.0			
Bromomethane	++++ 2.1272	1.9951 2.0415	2.1717 2.1016	1.8207	1.8273	Ave		2.0122			0.1000	7.0		20.0			
Chloroethane	1.7840 1.8279	1.7351 1.7021	1.7045 1.7782	1.5901	1.5098	Ave		1.7040			0.1000	6.2		20.0			
Dichlorofluoromethane	4.6084 4.5972	4.0970 4.2085	4.5846 4.4006	3.9366	3.8530	Ave		4.2857				7.1		20.0			
Trichlorofluoromethane	4.1219 4.2090	3.6967 4.0348	4.2344 4.4475	3.8606	3.6844	Ave		4.0362			0.1000	6.7		20.0			
Ethyl ether	++++ 1.4122	1.2294 1.3835	1.2866 1.3920	1.1428	1.1539	Ave		1.2858				8.9		20.0			
Acrolein	0.1318 0.1296	0.1048 0.1324	0.1321 0.1266	0.1042	0.1052	Ave		0.1209				11.1		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 2.0785	1.6448 2.2472	1.7634 2.3326	1.8266	1.6750	Ave		1.9383			0.1000	14.4		20.0			
1,1-Dichloroethene	++++ 1.9995	1.9088 2.0426	1.8042 2.1226	1.7720	1.6727	Ave		1.9032			0.1000	8.5		20.0			
Acetone	++++ 0.4655	0.4858 0.4546	0.4667 0.4410	0.3953	0.3990	Ave		0.4440			0.1000	7.8		20.0			
Iodomethane	++++ 4.3530	3.6697 4.2950	3.9034 4.3238	3.5479	3.6081	Ave		3.9573				9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833
SDG No.: 480-134358-1
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

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 5		B	M1	M2								
Carbon disulfide	7.0771 8.0515	6.7488 8.3339	7.2537 8.5790	6.9078	6.7744	Ave		7.4658			0.1000	9.9		20.0			
Methyl acetate	++++ 0.8507	0.8963 0.8345	0.7944 0.8364	0.6984	0.7295	Ave		0.8057			0.1000	8.7		20.0			
Allyl chloride	3.3180 3.2652	2.8982 3.2837	3.0997 3.3649	2.7785	2.7411	Ave		3.0936				8.2		20.0			
Methylene Chloride	5.2542 2.4435	3.5224 2.3652	2.6919 2.3398	2.1673	2.1612	Lin1	1.0029	2.3204			0.1000				0.9980		0.9900
2-Methyl-2-propanol	++++ 0.1226	0.1190 0.1171	0.1061 0.1196	0.0986	0.0973	Ave		0.1115				9.5		20.0			
Methyl tert-butyl ether	4.8599 5.3671	4.9876 5.2170	4.8882 5.2466	4.3235	4.4103	Ave		4.9125			0.1000	7.8		20.0			
Acrylonitrile	0.3037 0.4112	0.3543 0.4000	0.3569 0.4060	0.3158	0.3363	Ave		0.3605				11.5		20.0			
trans-1,2-Dichloroethene	2.3346 2.3246	2.2824 2.3345	2.2483 2.3775	2.1097	1.9353	Ave		2.2433			0.1000	6.6		20.0			
Hexane	1.9440 2.4901	2.0468 2.6688	2.1503 2.8693	2.2593	2.0314	Ave		2.3075				14.5		20.0			
Vinyl acetate	2.4423 3.1059	2.5526 3.1009	2.5689 3.1474	2.4159	2.4355	Ave		2.7212				12.3		20.0			
1,1-Dichloroethane	3.2119 3.9147	3.4135 3.9232	3.4072 3.9964	3.3700	3.3401	Ave		3.5721			0.2000	8.8		20.0			
2-Butanone (MEK)	0.4533 0.5797	0.5353 0.5751	0.5157 0.5779	0.4577	0.4729	Ave		0.5210			0.1000	10.4		20.0			
2,2-Dichloropropane	3.0556 3.5556	3.1886 3.6154	3.1334 3.6993	3.0311	2.9611	Ave		3.2800				9.0		20.0			
cis-1,2-Dichloroethene	2.5377 2.6897	2.5567 2.6750	2.4173 2.6790	2.2962	2.2385	Ave		2.5113			0.1000	7.0		20.0			
Chlorobromomethane	++++ 1.2478	1.1320 1.2408	1.0556 1.2264	1.0668	1.0531	Ave		1.1461				7.9		20.0			
Chloroform	3.9506 4.3049	3.8890 4.2552	3.8634 4.2853	3.6546	3.5896	Ave		3.9741			0.2000	7.1		20.0			
Tetrahydrofuran	0.3952 0.3465	0.3773 0.3398	0.3622 0.3481	0.2884	0.3097	Ave		0.3459				10.0		20.0			
1,1,1-Trichloroethane	2.8390 3.8110	3.1468 3.9663	3.4129 4.0744	3.1555	3.1570	Ave		3.4454			0.1000	13.1		20.0			
Cyclohexane	++++ 3.2518	2.4685 3.5663	2.8545 3.8100	2.9507	2.6421	Ave		3.0777			0.1000	15.9		20.0			
Isobutyl alcohol	0.0553 0.0606	0.0531 0.0607	0.0542 0.0654	0.0472	0.0489	Ave		0.0557				11.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833
SDG No.: 480-134358-1
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

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 5		B	M1	M2								
1,1-Dichloropropene	2.4661 2.9438	2.2908 3.0663	2.5265 3.2068	2.5756	2.4133	Ave		2.6861				12.6		20.0			
Carbon tetrachloride	2.3769 3.1931	2.5266 3.4469	2.7725 3.6077	2.7787	2.6509	Ave		2.9192			0.1000	15.3		20.0			
Benzene	8.0868 9.0974	7.9497 9.0822	8.3778 9.1850	7.6167	7.6409	Ave		8.3796			0.5000	7.9		20.0			
1,2-Dichloroethane	2.7832 2.7932	2.4346 2.7014	2.5580 2.6632	2.3003	2.3379	Ave		2.5715			0.1000	7.6		20.0			
n-Heptane	2.1963 2.4520	2.0710 2.5471	2.1672 2.7157	2.1225	1.9796	Ave		2.2814				11.3		20.0			
Trichloroethene	2.0062 2.4343	2.0951 2.4892	2.1559 2.5536	2.0933	2.0355	Ave		2.2329			0.2000	9.9		20.0			
Methylcyclohexane	2.3342 3.5815	2.6677 3.8459	2.9616 4.1217	3.0838	2.8242	Ave		3.1776			0.1000	19.4		20.0			
1,2-Dichloropropane	1.7192 2.1498	1.7789 2.1316	1.8461 2.1421	1.7579	1.7828	Ave		1.9135			0.1000	10.0		20.0			
1,4-Dioxane	++++ 0.0045	++++ 0.0044	0.0031 0.0046	0.0031	0.0035	Ave		0.0039				18.0		20.0			
Dibromomethane	++++ 1.2373	1.0753 1.2094	1.1308 1.2143	1.0043	1.0184	Ave		1.1271			0.1000	8.6		20.0			
Bromodichloromethane	2.4758 3.0901	2.4997 3.0947	2.6797 3.1782	2.3930	2.4945	Ave		2.7382			0.2000	12.0		20.0			
2-Chloroethyl vinyl ether	++++ 0.9517	0.6854 0.9731	0.8433 1.0113	0.7769	0.7868	Ave		0.8612				14.0		20.0			
cis-1,3-Dichloropropene	2.5688 3.2942	2.8458 3.3347	2.7700 3.4249	2.6468	2.6298	Ave		2.9394			0.2000	12.0		20.0			
4-Methyl-2-pentanone (MIBK)	0.4756 0.5730	0.4891 0.5708	0.4918 0.5842	0.4483	0.4592	Ave		0.5115			0.1000	10.8		20.0			
Toluene	2.3468 2.7207	2.4126 2.7348	2.5296 2.8149	2.3617	2.3071	Ave		2.5285			0.4000	8.0		20.0			
Ethyl methacrylate	0.5916 0.9003	0.6828 0.8887	0.7370 0.9470	0.6468	0.6893	Ave		0.7604				17.5		20.0			
trans-1,3-Dichloropropene	0.9735 1.3146	1.0856 1.3122	1.1106 1.3699	1.0369	1.0665	Ave		1.1587			0.1000	13.0		20.0			
1,1,2-Trichloroethane	0.5305 0.6303	0.5468 0.6129	0.6063 0.6257	0.5294	0.5240	Ave		0.5758			0.1000	8.2		20.0			
2-Hexanone	0.3364 0.4177	0.3463 0.4088	0.3571 0.4265	0.3138	0.3293	Ave		0.3670			0.1000	12.0		20.0			
Tetrachloroethene	0.9480 1.2254	1.0455 1.2587	1.1300 1.3221	1.0723	1.0342	Ave		1.1295			0.2000	11.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833
SDG No.: 480-134358-1
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

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 5		B	M1	M2								
1,3-Dichloropropane	1.1596 1.3075	1.1252 1.2760	1.1958 1.2991	1.0783	1.1016	Ave		1.1929				7.7		20.0			
Dibromochloromethane	0.7016 0.9642	0.8111 0.9703	0.7856 1.0356	0.7323	0.7702	Ave		0.8464			0.1000	14.8		20.0			
1,2-Dibromoethane	0.6182 0.7578	0.6390 0.7493	0.6808 0.7737	0.6243	0.6441	Ave		0.6859				9.4		20.0			
Chlorobenzene	2.6939 3.2165	2.9861 3.2038	3.0607 3.2692	2.7694	2.7603	Ave		2.9950			0.5000	7.7		20.0			
Ethylbenzene	5.0342 5.2182	4.6162 5.3164	4.7613 5.3895	4.4830	4.4909	Ave		4.9137			0.1000	7.6		20.0			
1,1,1,2-Tetrachloroethane	++++ 1.1731	0.9626 1.1647	1.0192 1.2054	0.9286	1.0080	Ave		1.0660				10.5		20.0			
m,p-Xylene	1.6610 2.0755	1.6971 2.0840	1.8582 2.1573	1.7529	1.7519	Ave		1.8797			0.1000	10.5		20.0			
o-Xylene	1.7154 2.0631	1.7791 2.0719	1.8234 2.1490	1.7108	1.7393	Ave		1.8815			0.3000	9.7		20.0			
Styrene	2.6721 3.4645	2.8734 3.4592	2.9658 3.5659	2.7012	2.8381	Ave		3.0675			0.3000	12.0		20.0			
Bromoform	0.3112 0.4879	0.3313 0.5176	0.3775 ++++	0.3636	0.3746	Ave		0.3948			0.1000	19.7		20.0			
Isopropylbenzene	4.1164 5.0151	4.1297 5.0993	4.5237 5.3871	4.2700	4.1058	Ave		4.5809			0.1000	11.2		20.0			
1,1,2,2-Tetrachloroethane	0.6496 0.8017	0.6879 0.7811	0.7175 0.8217	0.6475	0.6693	Ave		0.7220			0.3000	9.7		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.1811	0.1247 0.1847	0.1135 ++++	0.1399	0.1367	Lin1	-0.111	0.1812							0.9920		0.9900
N-Propylbenzene	5.0045 5.7426	4.9904 5.7893	5.0596 6.1233	4.8409	4.7705	Ave		5.2901				9.7		20.0			
1,2,3-Trichloropropane	++++ 0.2578	0.2259 0.2515	0.2419 0.2602	0.2093	0.2142	Ave		0.2373				8.8		20.0			
Bromobenzene	1.1031 1.3147	1.0445 1.2945	1.1429 1.3429	1.0948	1.1191	Ave		1.1821				9.8		20.0			
1,3,5-Trimethylbenzene	3.4273 4.3249	3.4769 4.3426	3.8648 4.5777	3.6148	3.5532	Ave		3.8978				11.6		20.0			
2-Chlorotoluene	1.1010 1.2755	1.0541 1.2389	1.1657 1.3191	1.0772	1.0746	Ave		1.1633				8.8		20.0			
4-Chlorotoluene	1.1922 1.3120	1.1418 1.2985	1.2141 1.3709	1.1299	1.1218	Ave		1.2226				7.7		20.0			
tert-Butylbenzene	0.7526 0.9686	0.8156 0.9743	0.8420 1.0502	0.8150	0.7782	Ave		0.8746				12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833
SDG No.: 480-134358-1
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

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 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.9596 4.5968	3.9419 4.5654	4.0026 4.7830	3.7973	3.8088	Ave		4.1819				9.5		20.0			
sec-Butylbenzene	4.0402 5.2678	4.3021 5.2710	4.6134 5.6871	4.4045	4.2394	Ave		4.7282				12.7		20.0			
4-Isopropyltoluene	4.0242 4.6983	3.7852 4.7356	4.1500 5.1105	3.8999	3.8352	Ave		4.2799				11.7		20.0			
1,3-Dichlorobenzene	2.2671 2.6632	2.3089 2.6055	2.3969 2.7457	2.2394	2.2237	Ave		2.4313			0.6000	8.6		20.0			
1,4-Dichlorobenzene	2.4239 2.6771	2.4855 2.6451	2.5348 2.7473	2.2779	2.2746	Ave		2.5083			0.5000	7.1		20.0			
n-Butylbenzene	3.8377 3.9442	3.4258 4.0267	3.4944 4.3430	3.2949	3.2350	Ave		3.7002				10.7		20.0			
1,2-Dichlorobenzene	2.0060 2.4200	2.1706 2.3794	2.1962 2.4768	2.0274	2.0102	Ave		2.2108			0.4000	8.7		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1373	0.2071 0.1355	0.1956 0.1471	0.1434	0.1284	Lin1	0.0596	0.1404			0.0500				0.9970		0.9900
1,2,4-Trichlorobenzene	1.3871 1.7118	1.6027 1.6749	1.5740 1.7848	1.3983	1.4310	Ave		1.5706			0.2000	9.6		20.0			
Hexachlorobutadiene	0.5252 0.6929	0.5994 0.7031	0.6232 0.7749	0.5585	0.5778	Ave		0.6319				13.4		20.0			
Naphthalene	2.3722 3.1213	2.6402 3.0936	2.7548 3.2760	2.4784	2.5212	Ave		2.7822				12.2		20.0			
1,2,3-Trichlorobenzene	1.1947 1.5034	1.3226 1.4690	1.3480 1.5582	1.2332	1.2475	Ave		1.3596				10.0		20.0			
Dibromofluoromethane (Surr)	1.3635 1.3735	1.3960 1.3956	1.3907 1.3389	1.3969	1.3879	Ave		1.3804				1.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.6651 0.6442	0.6671 0.6458	0.6337 0.6204	0.6571	0.6382	Ave		0.6465				2.5		20.0			
Toluene-d8 (Surr)	2.5823 2.5179	2.5666 2.4901	2.5256 2.4468	2.5126	2.5216	Ave		2.5204				1.7		20.0			
4-Bromofluorobenzene (Surr)	0.8375 0.8415	0.8584 0.8338	0.8465 0.8423	0.8338	0.8394	Ave		0.8417				1.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833

SDG No.: 480-134358-1

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-407833/4	C4171.D
Level 2	IC 480-407833/5	C4172.D
Level 3	IC 480-407833/6	C4173.D
Level 4	IC 480-407833/7	C4174.D
Level 5	IC 480-407833/8	C4175.D
Level 6	ICIS 480-407833/9	C4176.D
Level 7	IC 480-407833/10	C4177.D
Level 8	IC 480-407833/11	C4178.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	7773 558510	19504 1061566	45329 2600739	109321	189138	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	++++ 559674	29857 1074428	51991 2393591	106672	200968	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 490453	19081 936548	40996 2212705	93558	172901	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	++++ 484524	19189 940506	41994 2208977	94508	177341	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 356591	13299 696786	29341 1551610	62777	124461	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	4760 306427	11566 580935	23028 1312815	54825	102835	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	12296 770646	27310 1436394	61940 3248940	135734	262429	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	10998 705568	24642 1377103	57209 3283536	133113	250946	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	++++ 236732	8195 472207	17382 1027681	39405	78593	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	1758 108633	3492 225996	8926 467426	17970	35843	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 348434	10964 766989	23824 1722099	62981	114084	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	++++ 335190	12724 697140	24375 1567088	61100	113931	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 390204	16190 775810	31527 1627753	68149	135877	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	++++ 729714	24462 1465910	52737 3192185	122331	245746	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	18883 1349720	44987 2844421	98001 6333750	238182	461404	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833
SDG No.: 480-134358-1
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methyl acetate	FB	Ave	+++++ 285204	11949 569606	21464 1235027	48162	99379	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Allyl chloride	FB	Ave	8853 547363	19319 1120732	41878 2484243	95801	186698	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylene Chloride	FB	Lin1	14019 409610	23480 807246	36369 1727436	74730	147202	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	+++++ 205535	7930 399692	14337 883018	33981	66248	+++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	12967 899720	33247 1780578	66041 3873537	149074	300387	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	8104 689235	23619 1365306	48213 2997693	108894	229033	4.00 250	10.0 500	20.0 1000	50.0	100
trans-1,2-Dichloroethene	FB	Ave	6229 389685	15214 796772	30376 1755251	72741	131811	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexane	FB	Ave	5187 417429	13644 910889	29051 2118394	77902	138362	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	13033 1041299	34031 2116744	69415 4647405	166602	331761	0.800 50.0	2.00 100	4.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	8570 656247	22754 1339012	46032 2950528	116197	227498	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	6047 485925	17842 981366	34839 2133296	78914	161061	2.00 125	5.00 250	10.0 500	25.0	50.0
2,2-Dichloropropane	FB	Ave	8153 596039	21255 1233949	42334 2731185	104513	201685	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	6771 450882	17043 912990	32659 1977882	79172	152463	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobromomethane	FB	Ave	+++++ 209177	7546 423476	14261 905426	36782	71730	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroform	FB	Ave	10541 721650	25924 1452311	52196 3163771	126010	244491	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	2109 116169	5030 231965	9786 514028	19886	42184	0.800 50.0	2.00 100	4.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	7575 638859	20976 1353737	46109 3008085	108802	215023	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 545121	16455 1217208	38566 2812897	101741	179952	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	3692 254112	8845 518324	18319 1207078	40659	83234	10.0 625	25.0 1250	50.0 2500	125	250
1,1-Dichloropropene	FB	Ave	6580 493483	15270 1046542	34134 2367553	88807	164369	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	6342 535267	16842 1176436	37458 2663489	95811	180552	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833

SDG No.: 480-134358-1

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	21577 1525047	52992 3099799	113188 6781169	262625	520427	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	7426 468241	16229 921987	34559 1966235	79314	159236	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	5860 411042	13805 869351	29280 2004999	73183	134833	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	5353 408069	13966 849572	29127 1885303	72177	138636	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	6228 600383	17783 1312616	40012 3042979	106329	192358	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	4587 360377	11858 727511	24942 1581455	60611	121425	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 32482	++++ 66068	1755 145953	4574	10080	++++ 500	++++ 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	++++ 207414	7168 412762	15278 896521	34628	69364	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	6606 518017	16663 1056225	36204 2346402	82510	169903	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 159540	4569 332141	11393 746667	26789	53591	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6854 552231	18970 1138145	37424 2528579	91263	179115	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	13314 1041395	34060 2133818	69901 4667035	163067	329752	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	13138 988859	33601 2044667	71905 4497263	171812	331341	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	3312 327217	9509 664468	20948 1512946	47053	98992	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5450 477823	15119 981072	31569 2188605	75431	153166	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	2970 229109	7616 458229	17234 999677	38512	75254	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	9415 759065	24116 1528362	50751 3406700	114133	236494	2.00 125	5.00 250	10.0 500	25.0	50.0
Tetrachloroethene	CBNZ d5	Ave	5307 445403	14561 941065	32119 2112293	78007	148534	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	6492 475227	15671 954015	33991 2075460	78443	158210	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromochloromethane	CBNZ d5	Ave	3928 350442	11296 725461	22332 1654482	53275	110614	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3461 275434	8900 560234	19352 1236125	45418	92502	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833

SDG No.: 480-134358-1

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	15081 1169088	41587 2395379	86999 5222954	201469	396433	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	28183 1896614	64290 3974843	135339 8610538	326128	644966	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 426385	13406 870774	28971 1925842	67557	144770	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	9299 754371	23635 1558088	52818 3446632	127519	251610	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	9603 749846	24777 1549090	51829 3433286	124459	249800	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	14959 1259228	40018 2586278	84304 5697100	196506	407599	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	1742 177331	4614 386976	10731 ++++	26449	53805	0.400 25.0	1.00 50.0	2.00 ++++	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	24163 1930465	61487 4062555	135630 8955563	326033	633455	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	3813 308602	10242 622254	21512 1365962	49437	103254	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	++++ 69718	1856 147168	3403 ++++	10681	21090	++++ 25.0	1.00 50.0	2.00 ++++	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	29376 2210521	74301 4612232	151699 10179342	369622	736002	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 99224	3364 200374	7254 432530	15978	33053	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	6475 506063	15552 1031301	34268 2232382	83591	172651	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	20118 1664799	51768 3459675	115876 7610054	276006	548185	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6463 490970	15694 987029	34951 2192860	82249	165793	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	6998 505018	17000 1034516	36402 2278971	86275	173072	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	4418 372832	12143 776194	25246 1745873	62227	120068	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	23243 1769471	58690 3637204	120009 7951336	289936	587625	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	23716 2027774	64053 4199339	138321 9454184	336296	654054	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	23622 1808530	56357 3772816	124428 8495694	297769	591695	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	13308 1025168	34377 2075740	71864 4564535	170989	343072	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 407833
SDG No.: 480-134358-1
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/09/2018 14:30 Calibration End Date: 04/09/2018 17:27 Calibration ID: 33498

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	14228 1030522	37007 2107300	75998 4567162	173925	350935	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	22527 1518261	51006 3208026	104770 7219876	251577	499100	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	11775 931536	32318 1895595	65848 4117394	154799	310132	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	++++ 52846	3083 107989	5865 244493	10946	19815	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	8142 658920	23863 1334336	47192 2966996	106768	220776	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3083 266739	8925 560176	18684 1288220	42642	89141	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	13925 1201512	39310 2464605	82597 5446035	189231	388971	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	7013 578713	19692 1170321	40416 2590331	94159	192473	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	227377 230241	232635 238159	234869 247119	240817	236318	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	110913 107994	111166 110213	107025 114504	113283	108670	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	903527 915152	893614 930890	897386 977291	913945	905365	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	293032 305839	298885 311693	300762 336434	303304	301399	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Apr-2018 14:30:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.4
 Misc. Info.: 480-0070509-004
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:48:28 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 09-Apr-2018 15:35:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	166761	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	85	349892	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	95	366873	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	92	227377	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.073	-0.001	98	110913	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	94	903527	25.0	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	293032	25.0	24.9	
10 Dichlorodifluoromethane	85	4.400	4.412	-0.012	95	7773	0.4000	0.3713	
12 Chloromethane	50	4.839	4.839	0.000	97	15929	0.4000	0.6936	
13 Vinyl chloride	62	5.052	5.053	-0.001	94	9698	0.4000	0.5136	
151 Butadiene	54	5.100	5.112	-0.012	93	9240	0.4000	0.4856	
14 Bromomethane	94	5.657	5.657	0.000	90	6124	0.4000	0.4563	
15 Chloroethane	64	5.788	5.788	0.000	94	4760	0.4000	0.4188	
16 Dichlorofluoromethane	67	6.060	6.061	-0.001	96	12296	0.4000	0.4301	
17 Trichlorofluoromethane	101	6.132	6.144	-0.012	92	10998	0.4000	0.4085	
18 Ethyl ether	59	6.428	6.428	0.000	90	2630	0.4000	0.3066	
20 Acrolein	56	6.653	6.654	-0.001	5	1758	2.00	2.18	a
21 1,1,2-Trichloro-1,2,2-trif	101	6.701	6.713	-0.012	78	3278	0.4000	0.2535	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	94	6144	0.4000	0.4840	
23 Acetone	43		6.796				ND	ND	
25 Iodomethane	142	6.985	6.986	-0.001	97	9142	0.4000	0.3463	
26 Carbon disulfide	76	7.080	7.080	0.000	98	18883	0.4000	0.3792	
27 Methyl acetate	43		7.104				ND	ND	U
28 3-Chloro-1-propene	41	7.128	7.128	0.000	77	8853	0.4000	0.4290	
30 Methylene Chloride	84	7.270	7.270	0.000	90	14019	0.4000	0.4735	
31 2-Methyl-2-propanol	59	7.294	7.282	0.012	32	2009	4.00	2.70	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	97	12967	0.4000	0.3957	
33 Acrylonitrile	53	7.495	7.495	0.000	97	8104	4.00	3.37	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	94	6229	0.4000	0.4163	
35 Hexane	57	7.673	7.673	0.000	91	5187	0.4000	0.3370	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	13033	0.8000	0.7180	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	12	8570	0.4000	0.3597	a
43 2-Butanone (MEK)	43	8.361	8.349	0.012	97	6047	2.00	1.74	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	80	6771	0.4000	0.4042	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	67	8153	0.4000	0.3726	
48 Chlorobromomethane	128	8.622	8.622	0.000	88	2528	0.4000	0.3307	
49 Tetrahydrofuran	42	8.646	8.634	0.012	35	2109	0.8000	0.9141	a
50 Chloroform	83	8.634	8.634	0.000	92	10541	0.4000	0.3976	
51 1,1,1-Trichloroethane	97	8.823	8.824	-0.001	92	7575	0.4000	0.3296	
52 Cyclohexane	56	8.871	8.859	0.012	91	5400	0.4000	0.2630	
53 Isobutyl alcohol	43	8.883	8.871	0.012	56	3692	10.0	9.94	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	91	6580	0.4000	0.3672	
55 Carbon tetrachloride	117	8.954	8.954	0.000	91	6342	0.4000	0.3257	
57 Benzene	78	9.120	9.120	0.000	94	21577	0.4000	0.3860	M
58 1,2-Dichloroethane	62	9.132	9.132	0.000	59	7426	0.4000	0.4329	
59 n-Heptane	43	9.156	9.156	0.000	79	5860	0.4000	0.3851	
62 Trichloroethene	95	9.594	9.594	0.000	92	5353	0.4000	0.3594	
64 Methylcyclohexane	83	9.748	9.749	-0.001	86	6228	0.4000	0.2938	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	89	4587	0.4000	0.3594	
66 1,4-Dioxane	88		9.855				ND	ND	
67 Dibromomethane	93	9.926	9.926	0.000	90	2560	0.4000	0.3405	
68 Dichlorobromomethane	83	9.986	9.998	-0.012	92	6606	0.4000	0.3617	
69 2-Chloroethyl vinyl ether	63		10.116				ND	ND	
72 cis-1,3-Dichloropropene	75	10.318	10.318	0.000	95	6854	0.4000	0.3496	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	13314	2.00	1.86	
74 Toluene	92	10.590	10.591	-0.001	97	13138	0.4000	0.3712	
75 Ethyl methacrylate	69	10.662	10.662	0.000	81	3312	0.4000	0.3112	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	92	5450	0.4000	0.3361	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	85	2970	0.4000	0.3686	
80 2-Hexanone	43	10.994	10.994	0.000	70	9415	2.00	1.83	a
81 Tetrachloroethene	166	11.041	11.041	0.000	90	5307	0.4000	0.3357	
82 1,3-Dichloropropane	76	11.053	11.053	0.000	22	6492	0.4000	0.3889	a
83 Chlorodibromomethane	129	11.266	11.266	0.000	82	3928	0.4000	0.3316	
84 Ethylene Dibromide	107	11.409	11.397	0.012	94	3461	0.4000	0.3605	
87 Chlorobenzene	112	11.741	11.741	0.000	95	15081	0.4000	0.3598	
88 Ethylbenzene	91	11.753	11.753	0.000	95	28183	0.4000	0.4098	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	88	4649	0.4000	0.3116	
90 m-Xylene & p-Xylene	106	11.836	11.836	0.000	95	9299	0.4000	0.3535	
91 o-Xylene	106	12.179	12.180	-0.001	96	9603	0.4000	0.3647	
92 Styrene	104	12.191	12.191	0.000	89	14959	0.4000	0.3484	
95 Bromoform	173	12.452	12.452	0.000	41	1742	0.4000	0.3153	
94 Isopropylbenzene	105	12.452	12.452	0.000	96	24163	0.4000	0.3594	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	84	3813	0.4000	0.3599	
98 trans-1,4-Dichloro-2-buten	53		12.749				ND	ND	
99 N-Propylbenzene	91	12.796	12.796	0.000	98	29376	0.4000	0.3784	
100 1,2,3-Trichloropropane	110	12.808	12.808	0.000	48	961	0.4000	0.2760	
101 Bromobenzene	156	12.844	12.844	0.000	90	6475	0.4000	0.3733	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	93	20118	0.4000	0.3517	
103 2-Chlorotoluene	126	12.962	12.962	0.000	98	6463	0.4000	0.3786	
105 4-Chlorotoluene	126	13.045	13.045	0.000	95	6998	0.4000	0.3900	
106 tert-Butylbenzene	134	13.247	13.247	0.000	89	4418	0.4000	0.3442	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	49	23243	0.4000	0.3787	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.436	13.437	-0.001	94	23716	0.4000	0.3418	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	96	23622	0.4000	0.3761	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	86	13308	0.4000	0.3730	
113 1,4-Dichlorobenzene	146	13.745	13.733	0.012	1	14228	0.4000	0.3865	a
115 n-Butylbenzene	91	13.946	13.946	0.000	95	22527	0.4000	0.4149	M
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	93	11775	0.4000	0.3629	
117 1,2-Dibromo-3-Chloropropan	75		15.014				ND	ND	U
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	91	8142	0.4000	0.3533	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	76	3083	0.4000	0.3325	
121 Naphthalene	128	16.460	16.460	0.000	30	13925	0.4000	0.3411	a
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	93	7013	0.4000	0.3515	
S 126 1,3-Dichloropropene, Total	1				0			0.6856	
S 123 Total BTEX	1				0			1.89	
S 124 Xylenes, Total	1				0			0.7181	
S 125 1,2-Dichloroethene, Total	1				0			0.8205	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

8260 CORP mix_00123	Amount Added: 0.40	Units: uL	
GAS CORP mix_00274	Amount Added: 0.40	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: IC 0.4

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

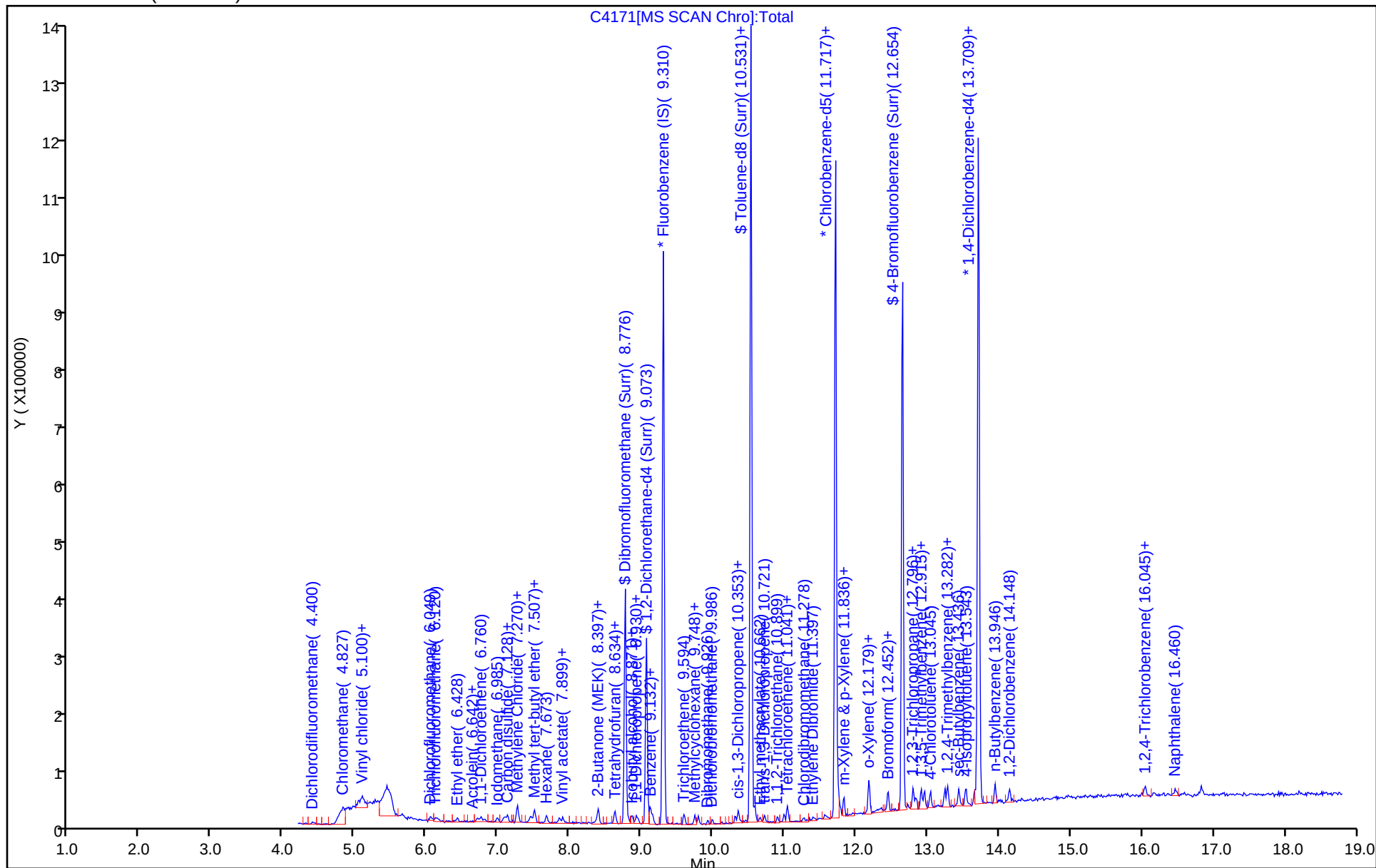
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

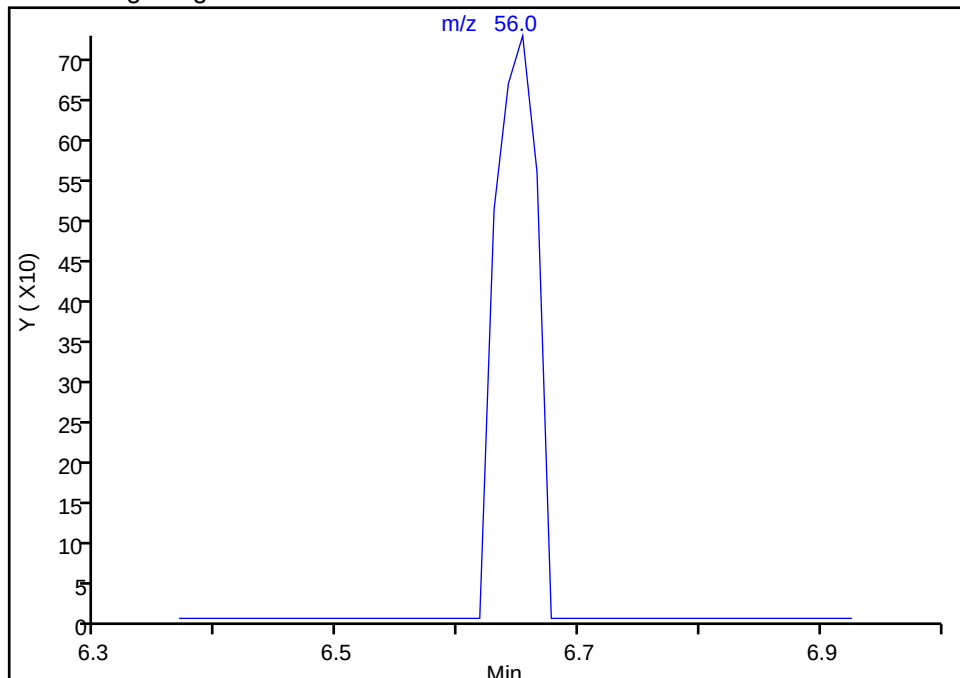
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D
Injection Date: 09-Apr-2018 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

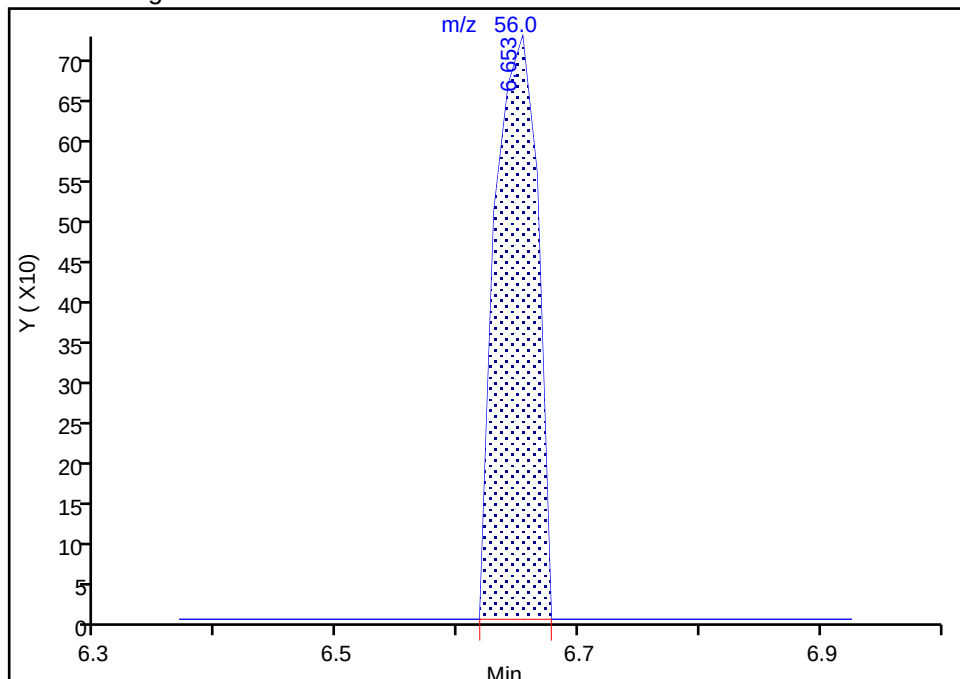
Not Detected
Expected RT: 6.65

Processing Integration Results



RT: 6.65
Area: 1758
Amount: 2.180748
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:37:05
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

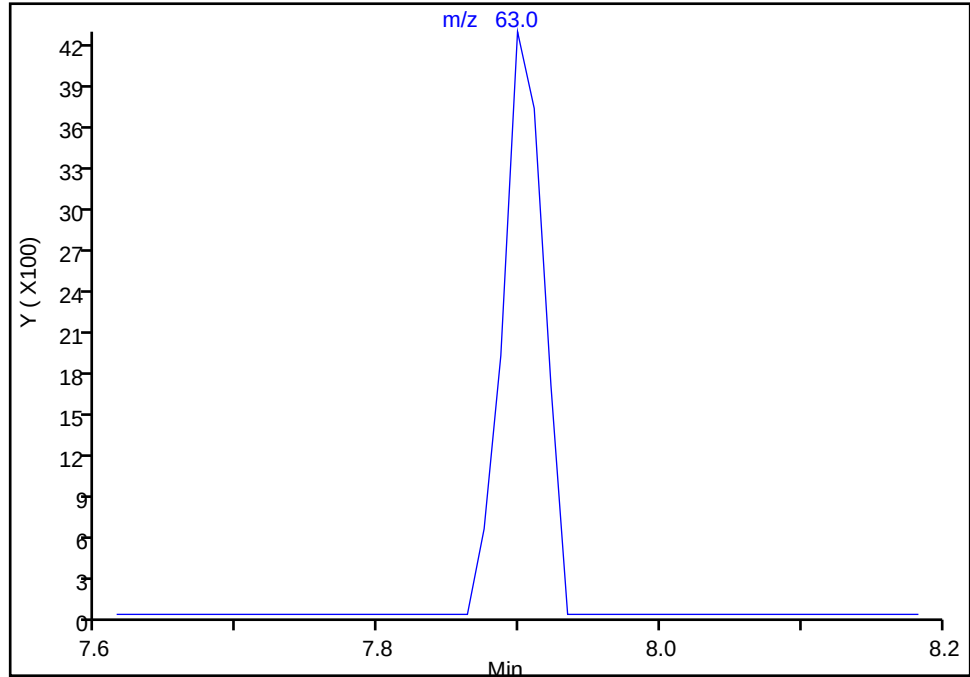
39 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

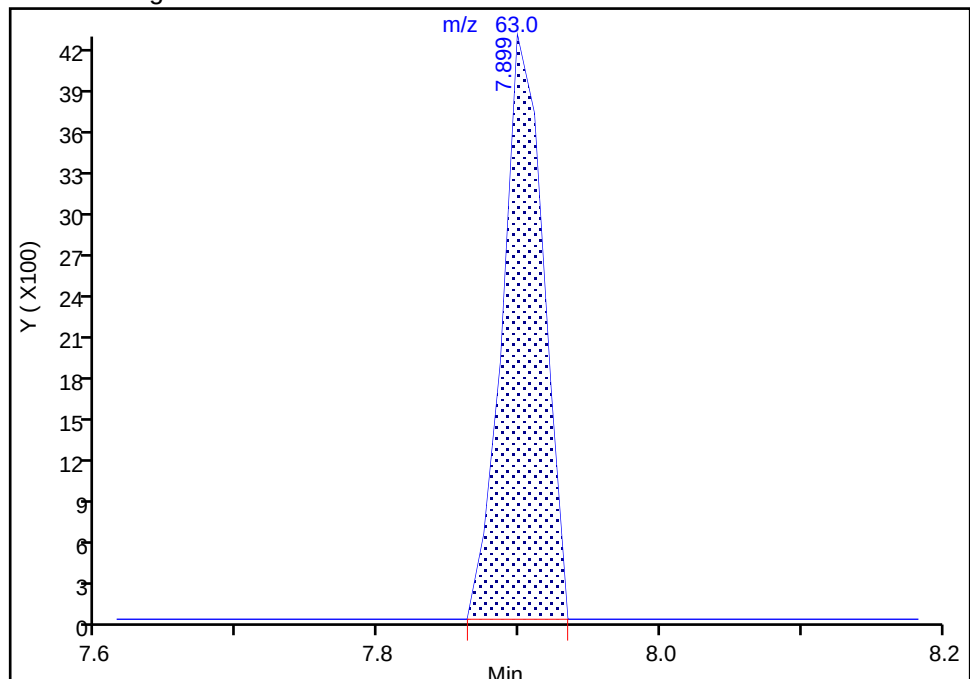
Not Detected

Expected RT: 7.90

Processing Integration Results



Manual Integration Results



RT: 7.90

Area: 8570

Amount: 0.359665

Amount Units: ug/L

Reviewer: reiler, 10-Apr-2018 12:42:11

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

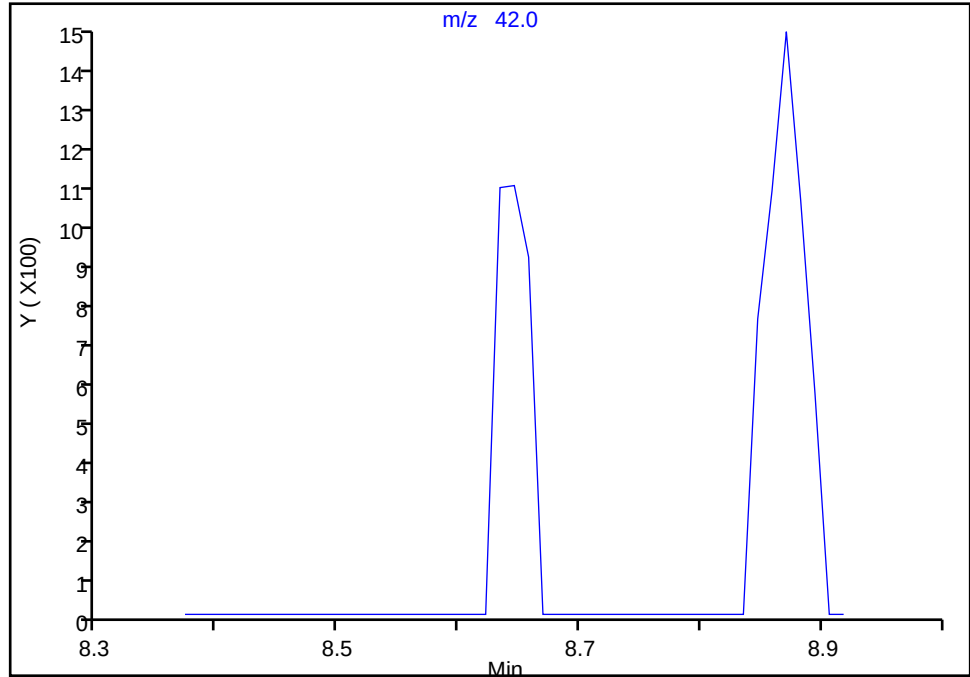
49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

Not Detected

Expected RT: 8.63

Processing Integration Results



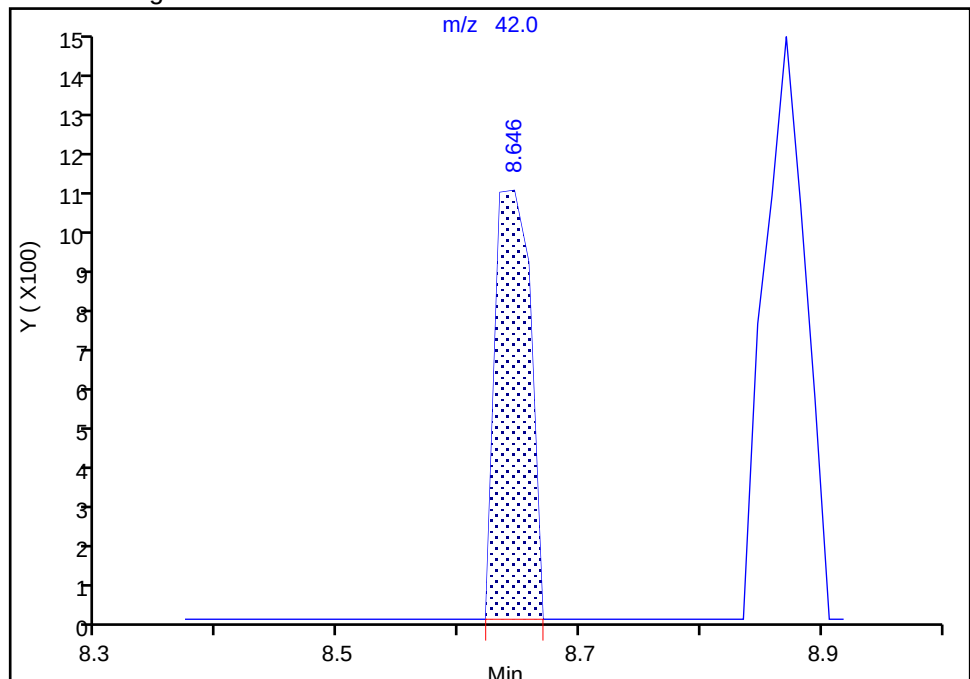
RT: 8.65

Area: 2109

Amount: 0.914070

Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:42:20

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

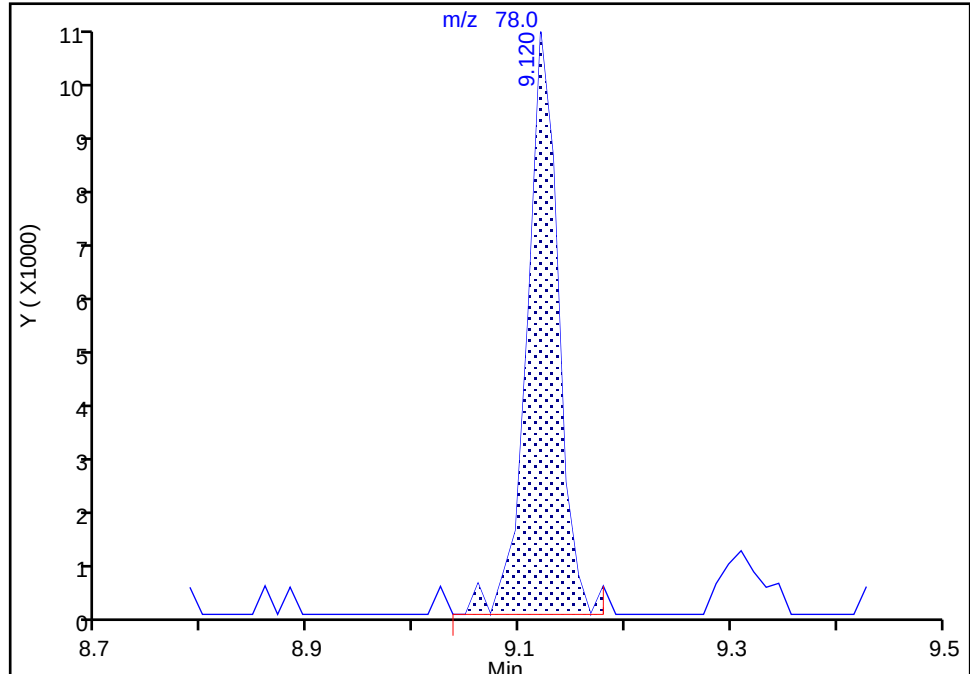
Detector: MS SCAN

57 Benzene, CAS: 71-43-2

Signal: 1

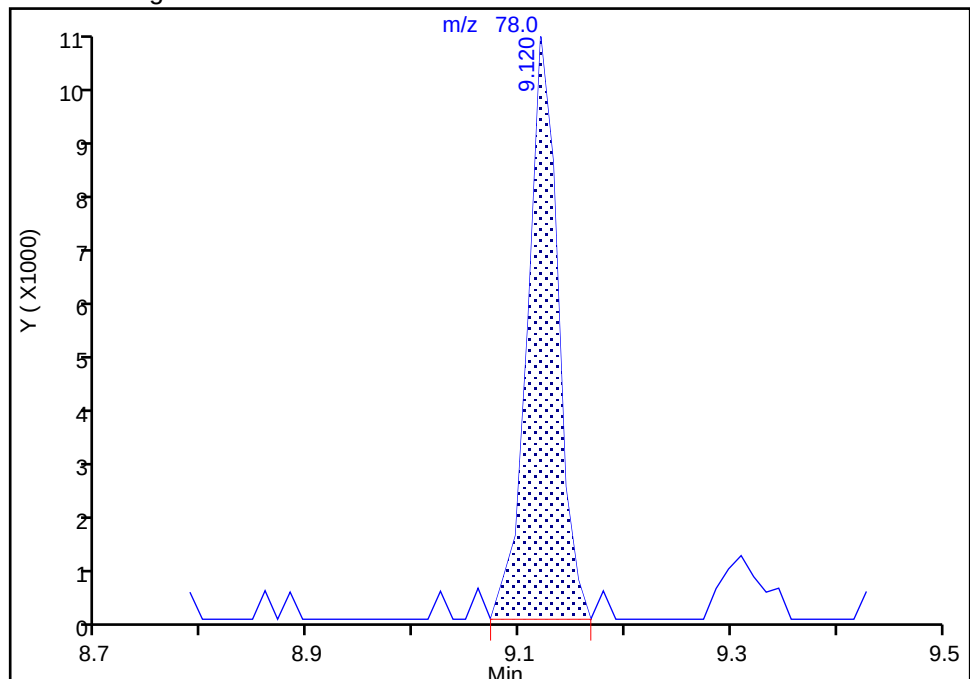
RT: 9.12
Area: 22360
Amount: 0.398289
Amount Units: ug/L

Processing Integration Results



RT: 9.12
Area: 21577
Amount: 0.386024
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:42:34

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

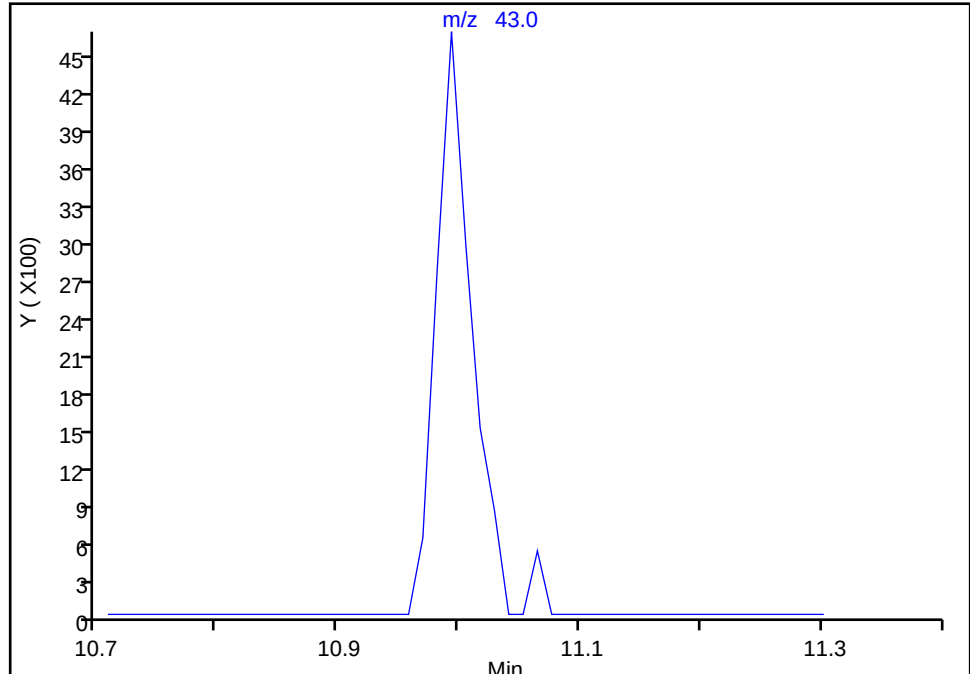
80 2-Hexanone, CAS: 591-78-6

Signal: 1

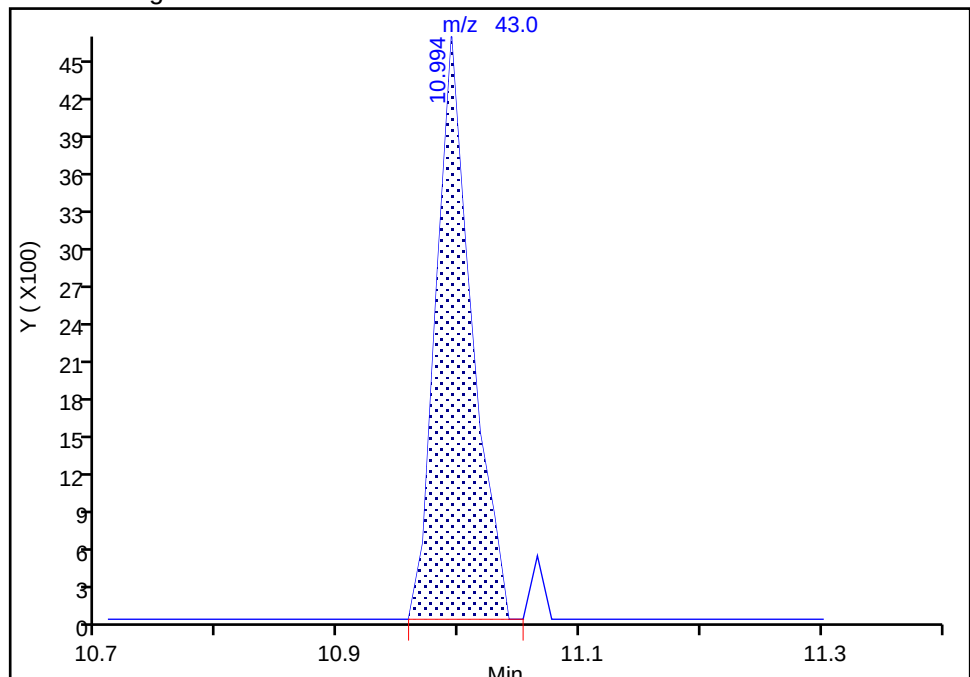
Not Detected

Expected RT: 10.99

Processing Integration Results



Manual Integration Results



RT: 10.99

Area: 9415

Amount: 1.833075

Amount Units: ug/L

Reviewer: reiler, 10-Apr-2018 12:43:32

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

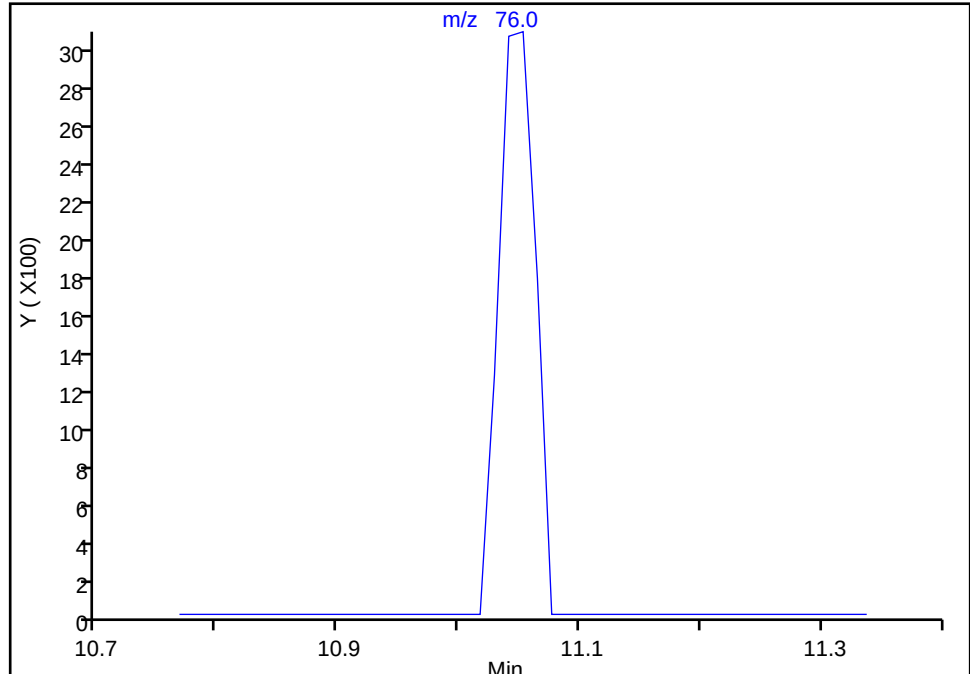
82 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

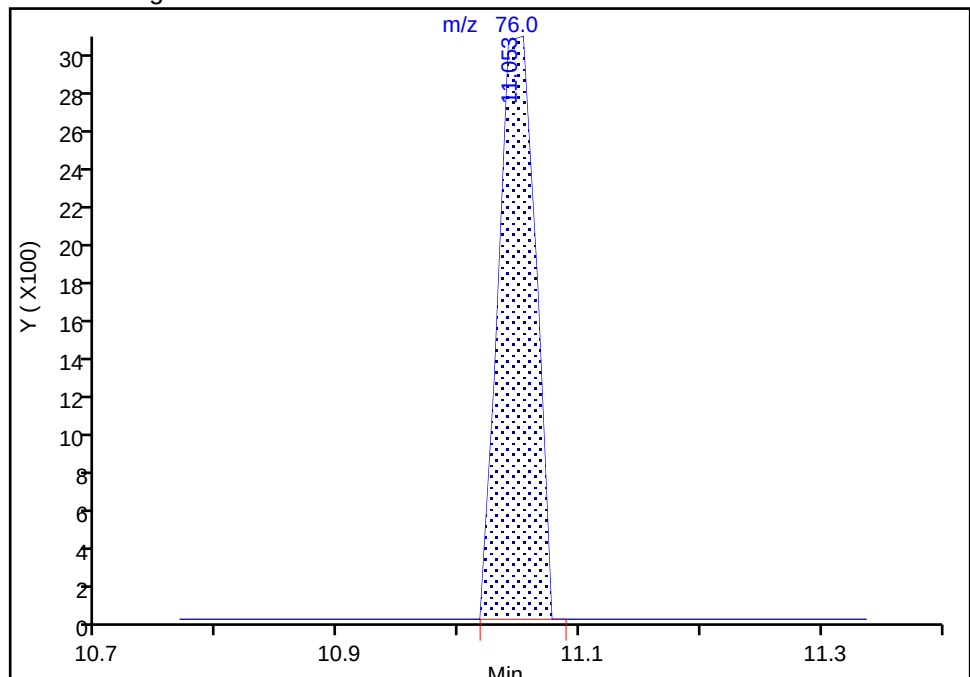
Not Detected

Expected RT: 11.05

Processing Integration Results



Manual Integration Results



RT: 11.05

Area: 6492

Amount: 0.388851

Amount Units: ug/L

Reviewer: reiler, 10-Apr-2018 12:43:36

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

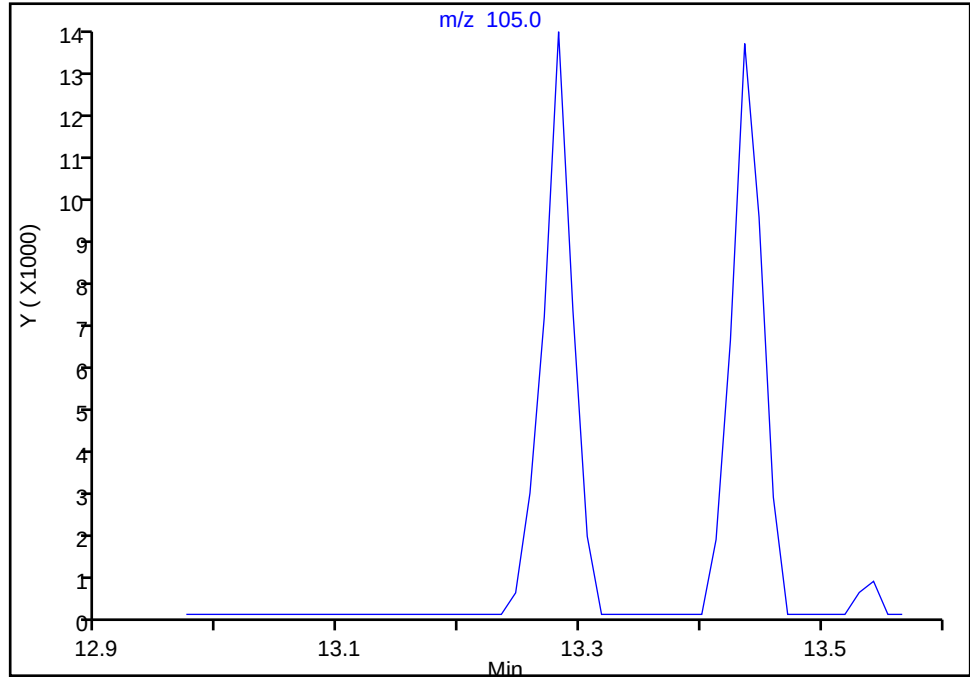
107 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

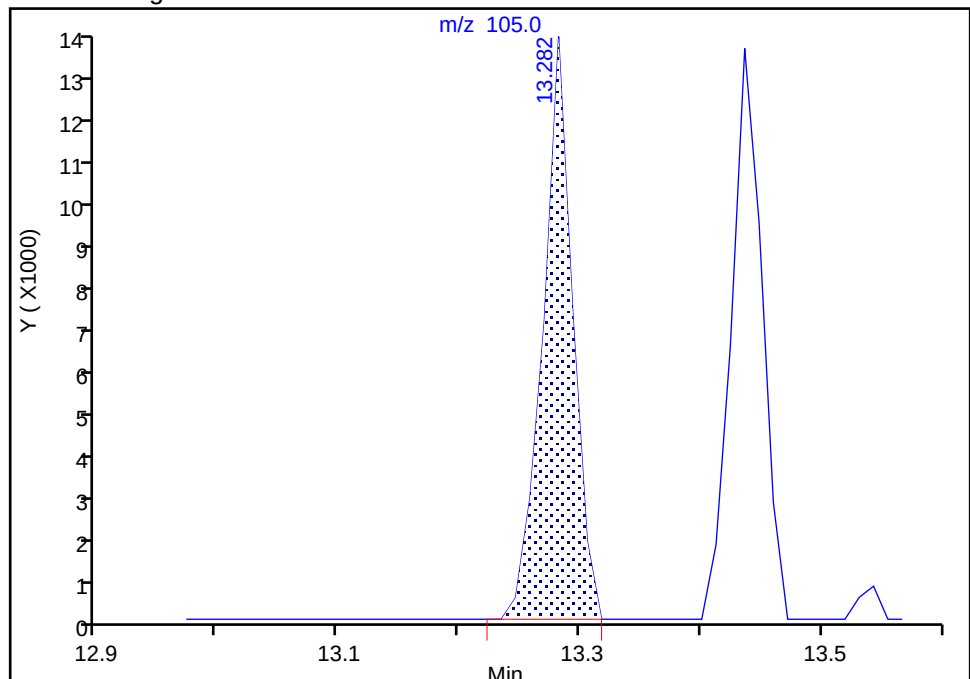
Not Detected

Expected RT: 13.28

Processing Integration Results



Manual Integration Results



RT: 13.28

Area: 23243

Amount: 0.378738

Amount Units: ug/L

Reviewer: reiler, 10-Apr-2018 12:44:02

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

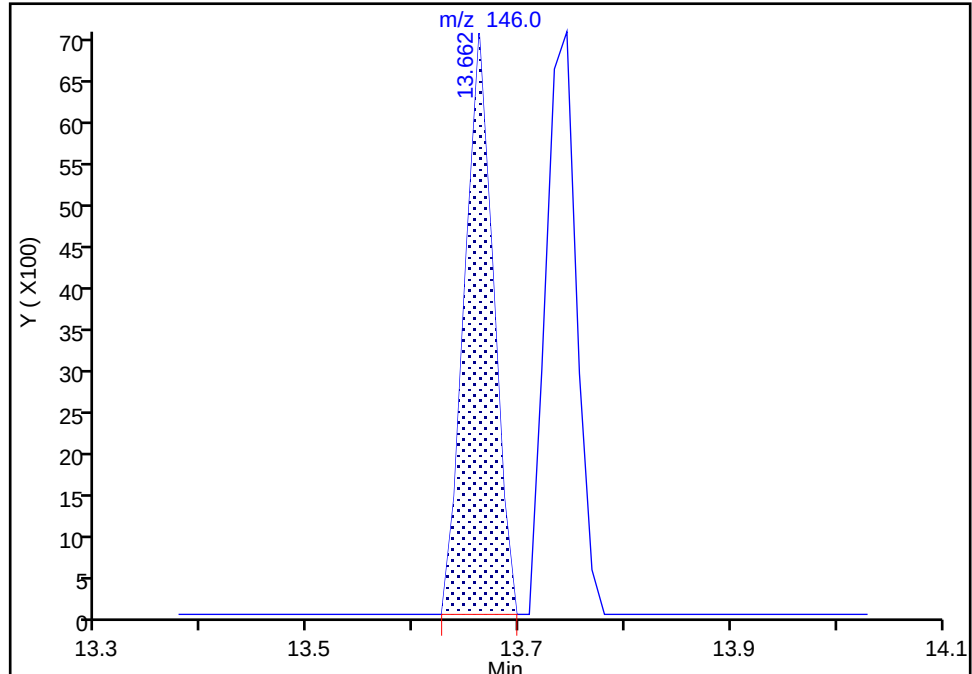
Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

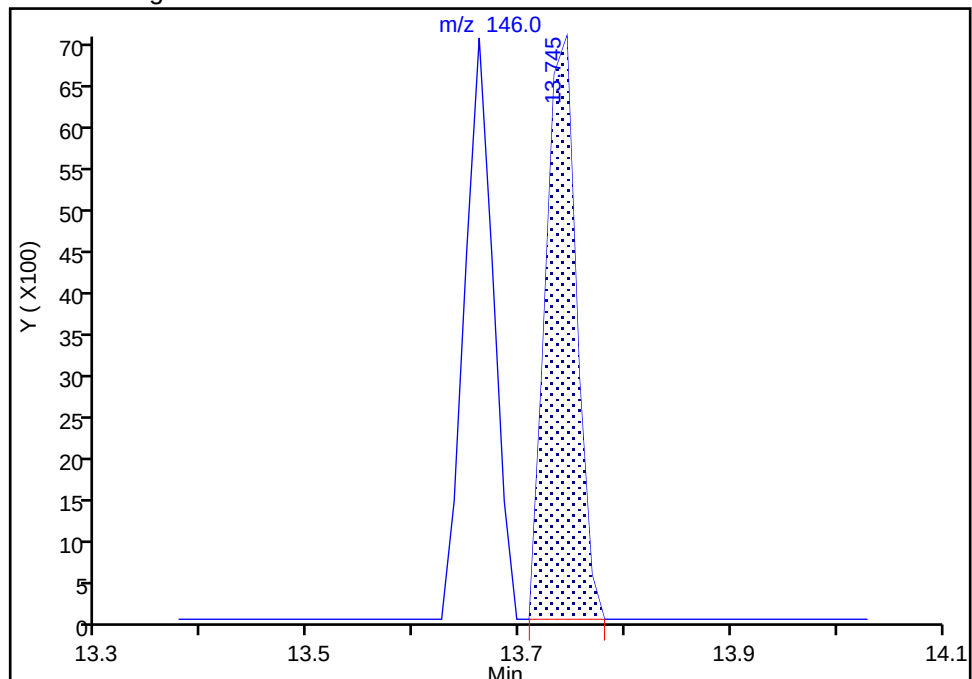
RT: 13.66
Area: 13308
Amount: 0.364390
Amount Units: ug/L

Processing Integration Results



RT: 13.74
Area: 14228
Amount: 0.386538
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:44:10

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

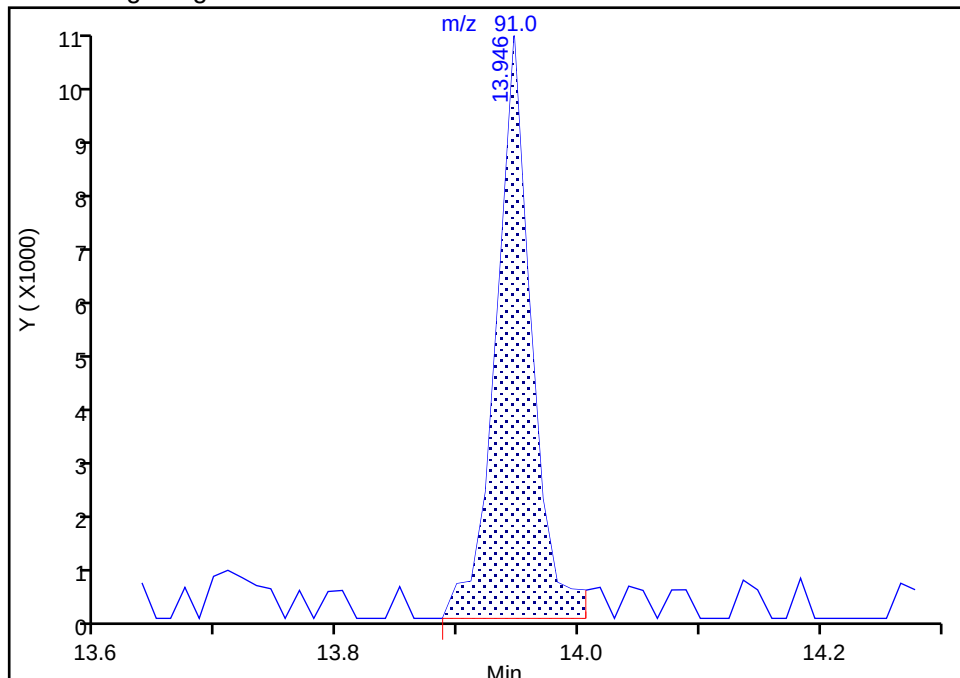
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D
Injection Date: 09-Apr-2018 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

115 n-Butylbenzene, CAS: 104-51-8

Signal: 1

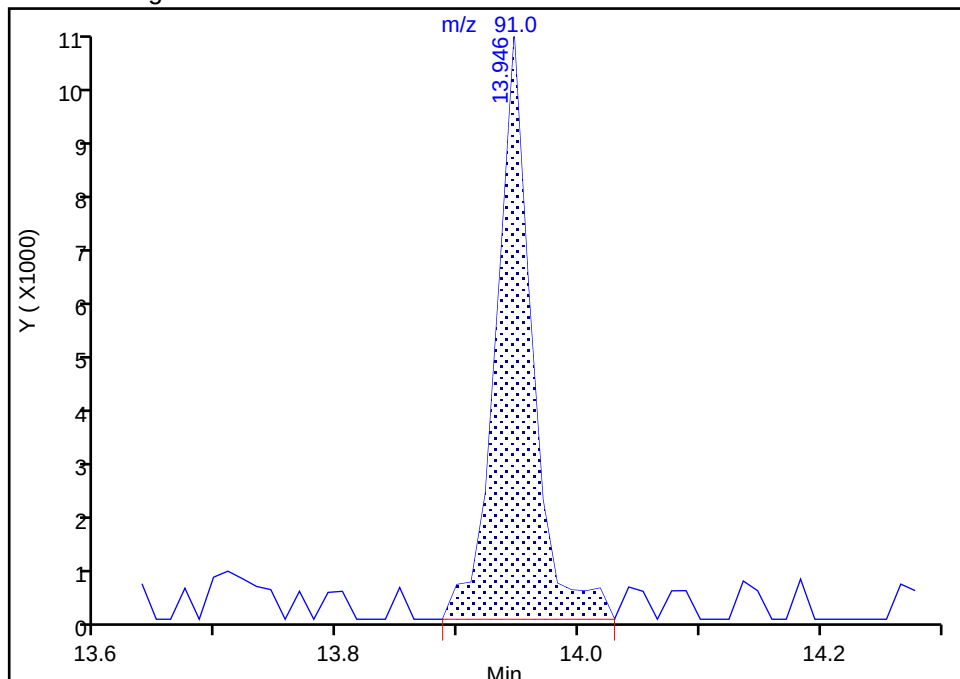
RT: 13.95
Area: 22116
Amount: 0.408256
Amount Units: ug/L

Processing Integration Results



RT: 13.95
Area: 22527
Amount: 0.414860
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:44:25
Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

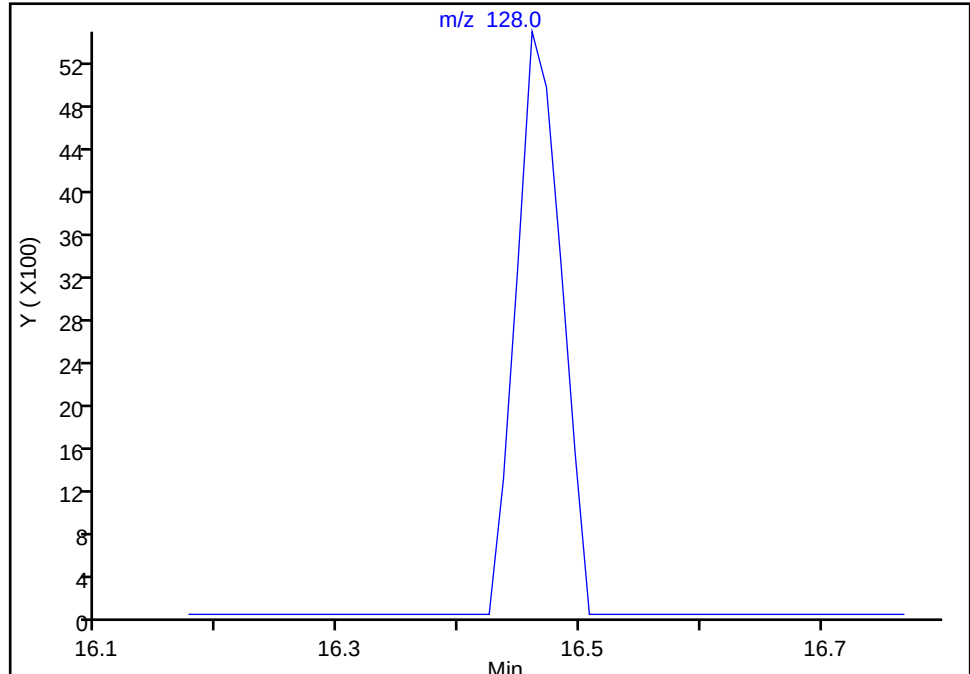
121 Naphthalene, CAS: 91-20-3

Signal: 1

Not Detected

Expected RT: 16.46

Processing Integration Results



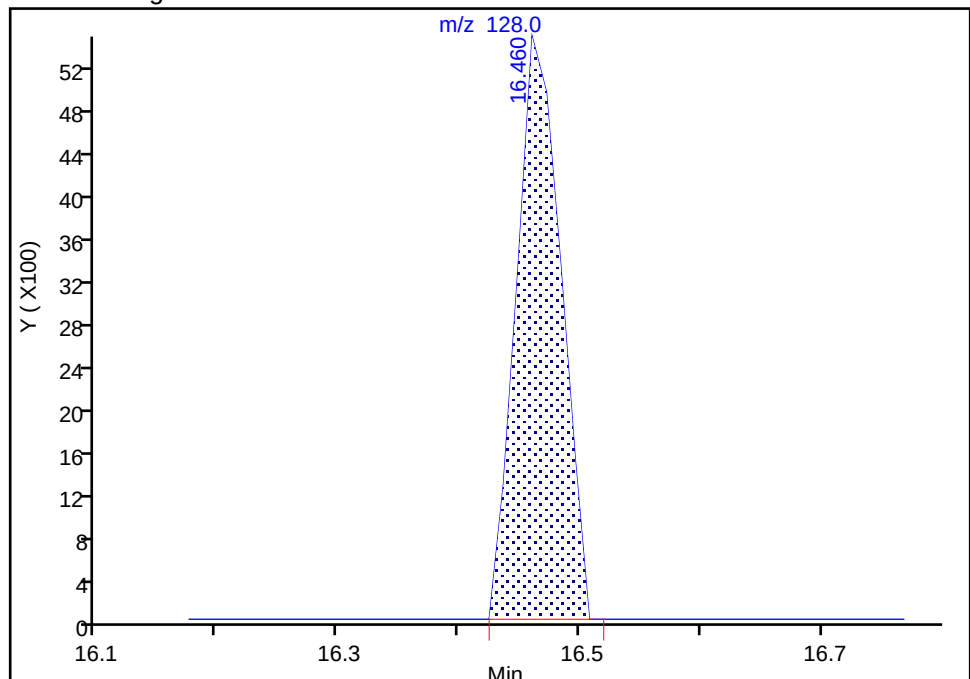
RT: 16.46

Area: 13925

Amount: 0.341058

Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:44:42

Audit Action: Assigned Compound ID

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

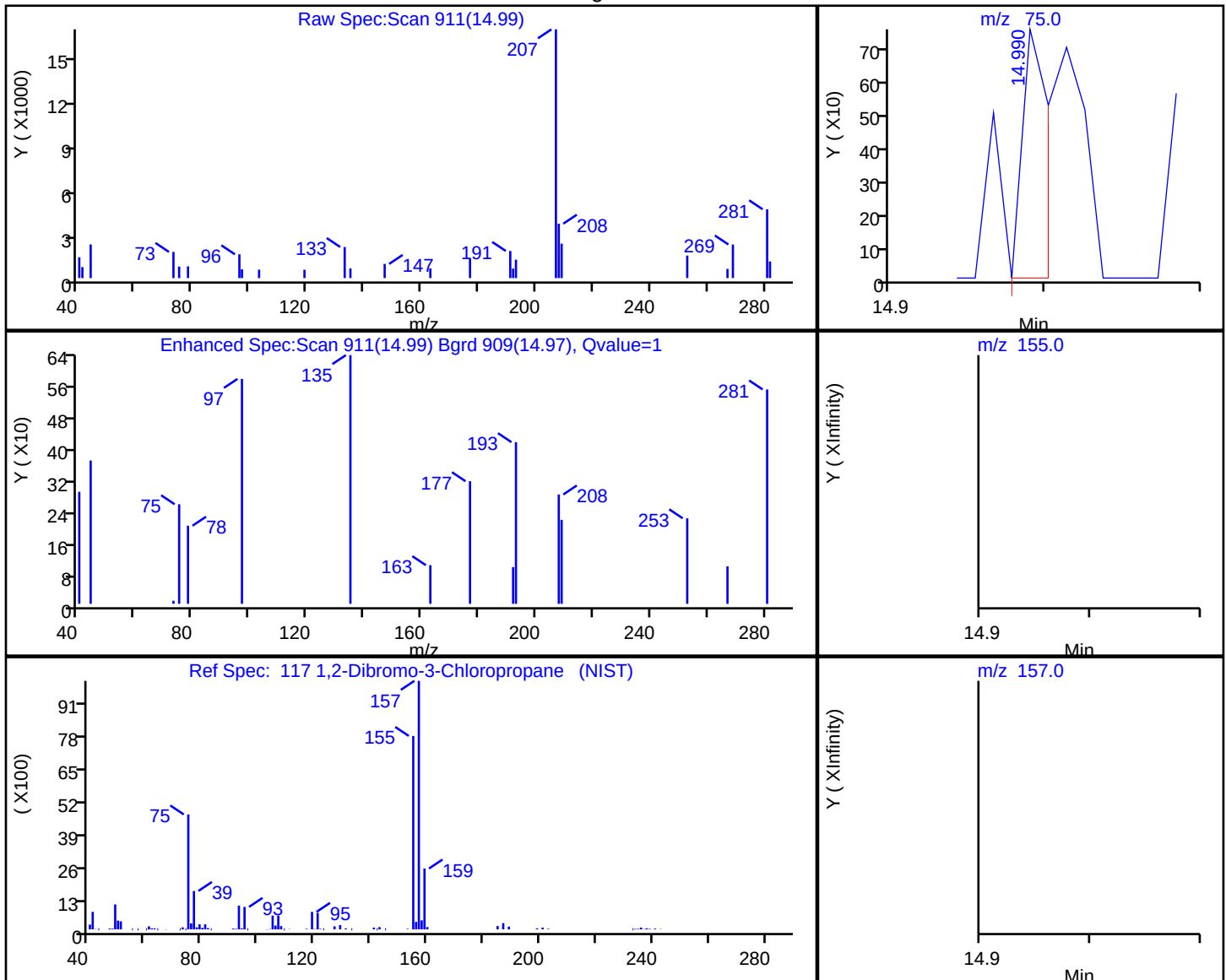
Column: ZB-624 (0.25 mm)

Detector

MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
14.99	75.00	915	0.402419
15.01	155.00	0	
15.01	157.00	0	

Reviewer: reiler, 10-Apr-2018 12:44:46

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4171.D

Injection Date: 09-Apr-2018 14:30:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

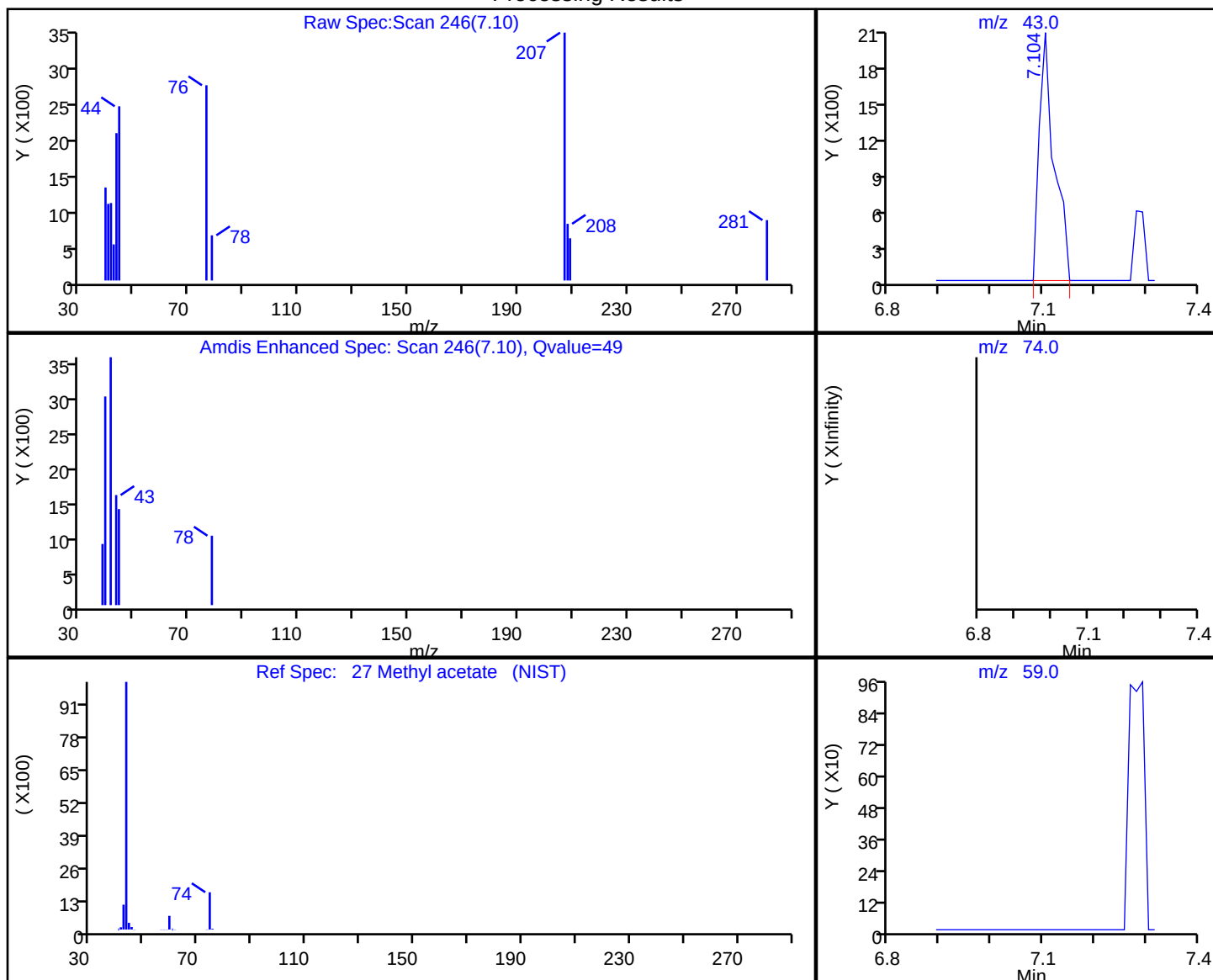
Column: ZB-624 (0.25 mm)

Detector

MS SCAN

27 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
7.10	43.00	4191	0.782254
7.10	74.00	0	
7.10	59.00	0	

Reviewer: reiler, 10-Apr-2018 12:40:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4172.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Apr-2018 14:56:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0070509-005
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:48:34 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 09-Apr-2018 15:37:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	166648	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	85	348176	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	97	372223	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	232635	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.073	-0.001	97	111166	25.0	25.8	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	94	893614	25.0	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	298885	25.0	25.5	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	96	19504	1.00	0.9323	
12 Chloromethane	50	4.839	4.839	0.000	97	29857	1.00	1.30	
13 Vinyl chloride	62	5.052	5.053	-0.001	96	19081	1.00	1.01	
151 Butadiene	54	5.100	5.112	-0.012	95	19189	1.00	1.01	
14 Bromomethane	94	5.669	5.657	0.012	92	13299	1.00	0.99	
15 Chloroethane	64	5.788	5.788	0.000	98	11566	1.00	1.02	
16 Dichlorofluoromethane	67	6.060	6.061	-0.001	96	27310	1.00	0.9560	
17 Trichlorofluoromethane	101	6.143	6.144	-0.001	97	24642	1.00	0.9159	
18 Ethyl ether	59	6.428	6.428	0.000	89	8195	1.00	0.9561	
20 Acrolein	56	6.653	6.654	-0.001	93	3492	5.00	4.33	
21 1,1,2-Trichloro-1,2,2-trif	101	6.712	6.713	-0.001	90	10964	1.00	0.8486	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	96	12724	1.00	1.00	
23 Acetone	43	6.807	6.796	0.011	97	16190	5.00	5.47	
25 Iodomethane	142	6.997	6.986	0.011	99	24462	1.00	0.9273	
26 Carbon disulfide	76	7.092	7.080	0.012	98	44987	1.00	0.9040	
27 Methyl acetate	43	7.104	7.104	0.000	70	11949	2.00	2.22	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	81	19319	1.00	0.9368	
30 Methylene Chloride	84	7.270	7.270	0.000	87	23480	1.00	1.09	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	30	7930	10.0	10.7	
32 Methyl tert-butyl ether	73	7.460	7.448	0.012	96	33247	1.00	1.02	
33 Acrylonitrile	53	7.495	7.495	0.000	97	23619	10.0	9.83	
34 trans-1,2-Dichloroethene	96	7.519	7.507	0.012	95	15214	1.00	1.02	
35 Hexane	57	7.673	7.673	0.000	95	13644	1.00	0.8870	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	98	34031	2.00	1.88	
39 1,1-Dichloroethane	63	7.910	7.899	0.011	94	22754	1.00	0.9556	
43 2-Butanone (MEK)	43	8.361	8.349	0.012	99	17842	5.00	5.14	
44 2,2-Dichloropropane	77	8.396	8.397	-0.001	72	21255	1.00	0.9721	
45 cis-1,2-Dichloroethene	96	8.396	8.397	-0.001	79	17043	1.00	1.02	
48 Chlorobromomethane	128	8.622	8.622	0.000	92	7546	1.00	0.9878	
50 Chloroform	83	8.634	8.634	0.000	94	25924	1.00	0.9786	
49 Tetrahydrofuran	42	8.645	8.634	0.011	46	5030	2.00	2.18	
51 1,1,1-Trichloroethane	97	8.823	8.824	-0.001	98	20976	1.00	0.9133	
52 Cyclohexane	56	8.859	8.859	0.000	91	16455	1.00	0.8021	
53 Isobutyl alcohol	43	8.883	8.871	0.012	63	8845	25.0	23.8	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	93	15270	1.00	0.8528	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	16842	1.00	0.8655	
57 Benzene	78	9.120	9.120	0.000	96	52992	1.00	0.9487	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	93	16229	1.00	0.9468	
59 n-Heptane	43	9.155	9.156	-0.001	85	13805	1.00	0.9078	
62 Trichloroethene	95	9.594	9.594	0.000	95	13966	1.00	0.9383	
64 Methylcyclohexane	83	9.748	9.749	-0.001	86	17783	1.00	0.8396	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	91	11858	1.00	0.9296	
66 1,4-Dioxane	88	9.867	9.855	0.012	1	449	20.0	8.34	Ma
67 Dibromomethane	93	9.926	9.926	0.000	96	7168	1.00	0.9540	
68 Dichlorobromomethane	83	9.997	9.998	-0.001	96	16663	1.00	0.9129	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	90	4569	1.00	0.7959	
72 cis-1,3-Dichloropropene	75	10.317	10.318	-0.001	96	18970	1.00	0.9682	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	34060	5.00	4.78	
74 Toluene	92	10.590	10.591	-0.001	98	33601	1.00	0.9542	
75 Ethyl methacrylate	69	10.661	10.662	-0.001	89	9509	1.00	0.8979	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	93	15119	1.00	0.9369	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	91	7616	1.00	0.9498	
80 2-Hexanone	43	10.993	10.994	-0.001	95	24116	5.00	4.72	
81 Tetrachloroethene	166	11.041	11.041	0.000	94	14561	1.00	0.9256	
82 1,3-Dichloropropane	76	11.053	11.053	0.000	91	15671	1.00	0.9433	
83 Chlorodibromomethane	129	11.266	11.266	0.000	88	11296	1.00	0.9583	
84 Ethylene Dibromide	107	11.397	11.397	0.000	96	8900	1.00	0.9317	
87 Chlorobenzene	112	11.740	11.741	-0.001	96	41587	1.00	1.00	
88 Ethylbenzene	91	11.752	11.753	-0.001	95	64290	1.00	0.9395	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	80	13406	1.00	0.9030	
90 m-Xylene & p-Xylene	106	11.835	11.836	-0.001	97	23635	1.00	0.9028	
91 o-Xylene	106	12.179	12.180	-0.001	96	24777	1.00	0.9456	
92 Styrene	104	12.191	12.191	0.000	91	40018	1.00	0.9367	
94 Isopropylbenzene	105	12.452	12.452	0.000	96	61487	1.00	0.9015	
95 Bromoform	173	12.452	12.452	0.000	42	4614	1.00	0.8391	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	92	10242	1.00	0.9527	
98 trans-1,4-Dichloro-2-buten	53	12.748	12.749	-0.001	66	1856	1.00	1.30	
99 N-Propylbenzene	91	12.796	12.796	0.000	98	74301	1.00	0.9433	
100 1,2,3-Trichloropropane	110	12.808	12.808	0.000	47	3364	1.00	0.9523	
101 Bromobenzene	156	12.843	12.844	-0.001	94	15552	1.00	0.8837	
102 1,3,5-Trimethylbenzene	105	12.914	12.915	-0.001	93	51768	1.00	0.8920	
103 2-Chlorotoluene	126	12.962	12.962	0.000	96	15694	1.00	0.9061	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	17000	1.00	0.9339	
106 tert-Butylbenzene	134	13.235	13.247	-0.012	92	12143	1.00	0.9325	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	95	58690	1.00	0.9426	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.436	13.437	-0.001	94	64053	1.00	0.9099	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	96	56357	1.00	0.8844	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	97	34377	1.00	0.9497	
113 1,4-Dichlorobenzene	146	13.745	13.733	0.012	95	37007	1.00	0.99	
115 n-Butylbenzene	91	13.946	13.946	0.000	98	51006	1.00	0.9258	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	97	32318	1.00	0.9818	
117 1,2-Dibromo-3-Chloropropan	75	15.013	15.014	-0.001	67	3083	1.00	1.05	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	93	23863	1.00	1.02	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	93	8925	1.00	0.9487	
121 Naphthalene	128	16.460	16.460	0.000	98	39310	1.00	0.9490	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	94	19692	1.00	0.9728	
S 124 Xylenes, Total	1				0			1.85	
S 125 1,2-Dichloroethene, Total	1				0			2.04	
S 126 1,3-Dichloropropene, Total	1				0			1.91	
S 123 Total BTEX	1				0			4.69	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00123

Amount Added: 1.00

Units: uL

GAS CORP mix_00274

Amount Added: 1.00

Units: uL

C_8260_IS_00110

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00126

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4172.D

Injection Date: 09-Apr-2018 14:56:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

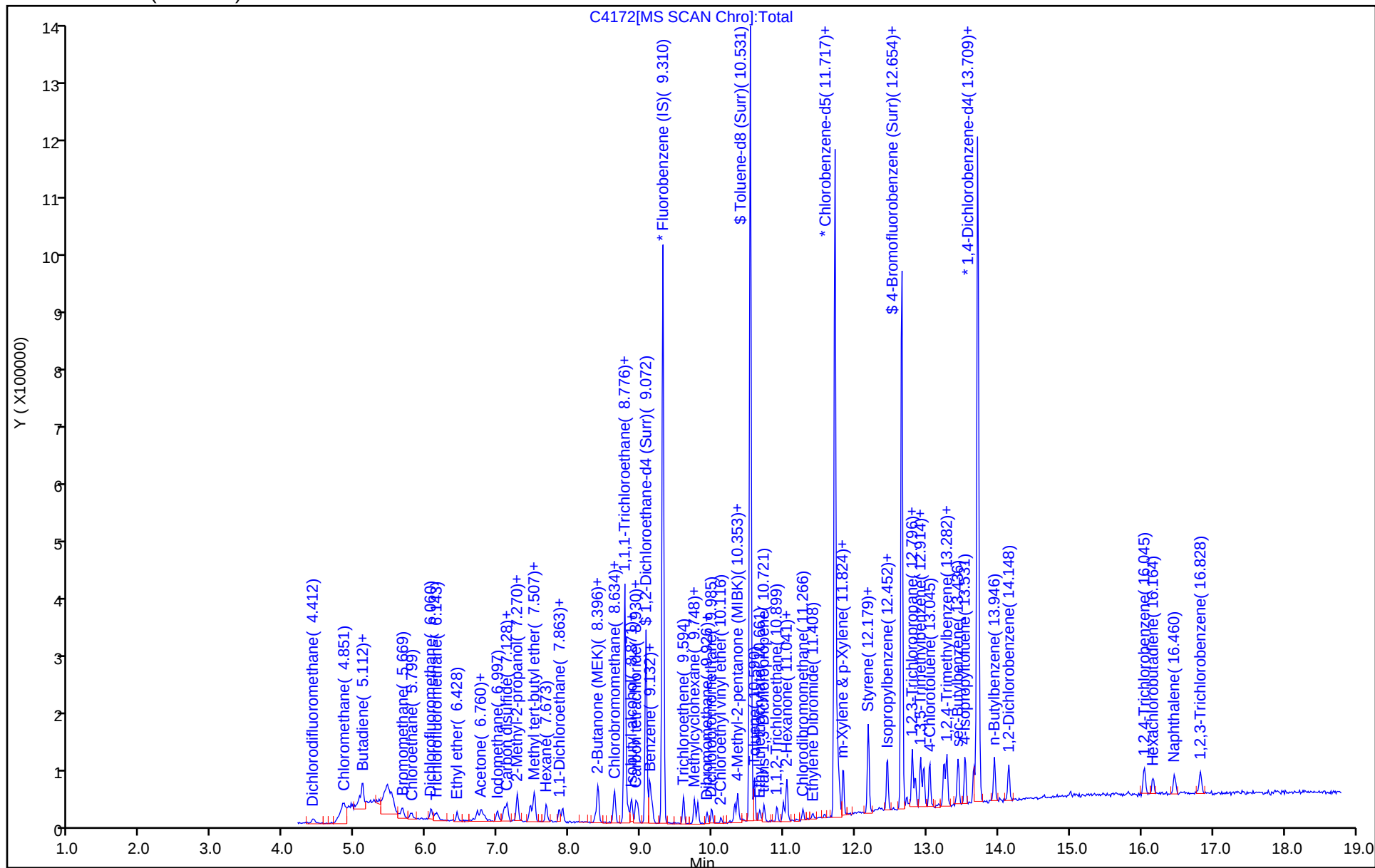
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4172.D

Injection Date: 09-Apr-2018 14:56:30

Instrument ID: HP5973C

Lims ID: IC

Client ID:

Operator ID: RR

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

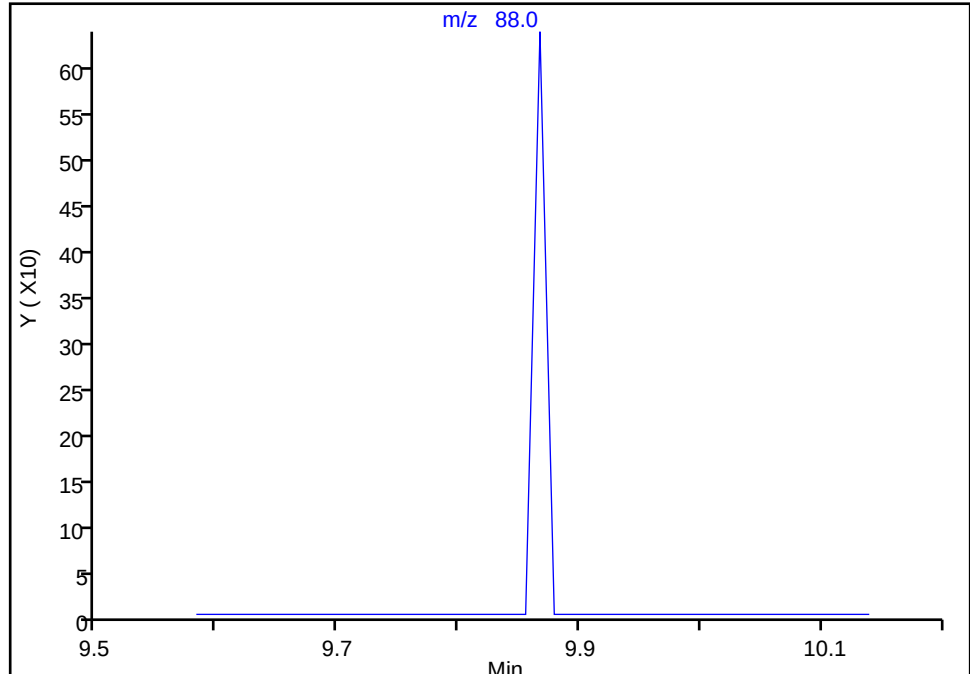
66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 9.86

Processing Integration Results



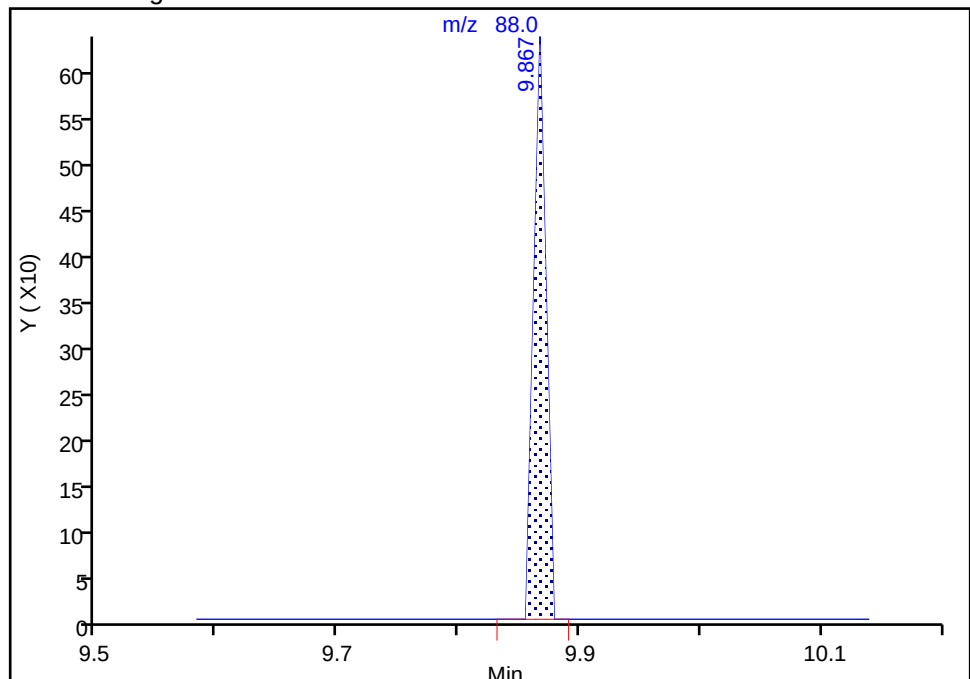
RT: 9.87

Area: 449

Amount: 8.339726

Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:45:36

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4173.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Apr-2018 15:21:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0070509-006
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:48:40 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: HillL

Date: 10-Apr-2018 11:28:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	168880	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	85	355312	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	95	374780	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	92	234869	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.073	0.000	98	107025	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	94	897386	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	300762	25.0	25.1	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	45329	2.00	2.14	
12 Chloromethane	50	4.839	4.839	0.000	99	51991	2.00	2.24	
13 Vinyl chloride	62	5.053	5.053	0.000	96	40996	2.00	2.14	
151 Butadiene	54	5.100	5.112	-0.012	97	41994	2.00	2.18	
14 Bromomethane	94	5.657	5.657	0.000	91	29341	2.00	2.16	
15 Chloroethane	64	5.788	5.788	0.000	97	23028	2.00	2.00	
16 Dichlorofluoromethane	67	6.061	6.061	0.000	97	61940	2.00	2.14	
17 Trichlorofluoromethane	101	6.144	6.144	0.000	98	57209	2.00	2.10	
18 Ethyl ether	59	6.428	6.428	0.000	90	17382	2.00	2.00	
20 Acrolein	56	6.653	6.654	-0.001	94	8926	10.0	10.9	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	92	23824	2.00	1.82	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	98	24375	2.00	1.90	
23 Acetone	43	6.808	6.796	0.012	98	31527	10.0	10.5	
25 Iodomethane	142	6.985	6.986	-0.001	99	52737	2.00	1.97	
26 Carbon disulfide	76	7.080	7.080	0.000	99	98001	2.00	1.94	
27 Methyl acetate	43	7.104	7.104	0.000	97	21464	4.00	3.94	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	78	41878	2.00	2.00	
30 Methylene Chloride	84	7.270	7.270	0.000	90	36369	2.00	1.89	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	47	14337	20.0	19.0	
32 Methyl tert-butyl ether	73	7.460	7.448	0.012	97	66041	2.00	1.99	
33 Acrylonitrile	53	7.495	7.495	0.000	98	48213	20.0	19.8	
34 trans-1,2-Dichloroethene	96	7.519	7.507	0.012	99	30376	2.00	2.00	
35 Hexane	57	7.673	7.673	0.000	94	29051	2.00	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	69415	4.00	3.78	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	96	46032	2.00	1.91	
43 2-Butanone (MEK)	43	8.361	8.349	0.012	100	34839	10.0	9.90	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	81	32659	2.00	1.93	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	72	42334	2.00	1.91	
48 Chlorobromomethane	128	8.622	8.622	0.000	91	14261	2.00	1.84	
49 Tetrahydrofuran	42	8.646	8.634	0.012	80	9786	4.00	4.19	
50 Chloroform	83	8.634	8.634	0.000	94	52196	2.00	1.94	
51 1,1,1-Trichloroethane	97	8.824	8.824	0.000	98	46109	2.00	1.98	
52 Cyclohexane	56	8.871	8.859	0.012	94	38566	2.00	1.85	
53 Isobutyl alcohol	43	8.871	8.871	0.000	56	18319	50.0	48.7	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	96	34134	2.00	1.88	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	37458	2.00	1.90	
57 Benzene	78	9.120	9.120	0.000	95	113188	2.00	2.00	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	94	34559	2.00	1.99	
59 n-Heptane	43	9.156	9.156	0.000	92	29280	2.00	1.90	
62 Trichloroethene	95	9.594	9.594	0.000	95	29127	2.00	1.93	
64 Methylcyclohexane	83	9.749	9.749	-0.001	88	40012	2.00	1.86	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	91	24942	2.00	1.93	
66 1,4-Dioxane	88	9.867	9.855	0.012	29	1755	40.0	31.9	a
67 Dibromomethane	93	9.926	9.926	0.000	94	15278	2.00	2.01	
68 Dichlorobromomethane	83	9.998	9.998	0.000	97	36204	2.00	1.96	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	93	11393	2.00	1.96	
72 cis-1,3-Dichloropropene	75	10.318	10.318	0.000	96	37424	2.00	1.88	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	69901	10.0	9.61	
74 Toluene	92	10.590	10.591	-0.001	99	71905	2.00	2.00	
75 Ethyl methacrylate	69	10.662	10.662	0.000	91	20948	2.00	1.94	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	96	31569	2.00	1.92	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	91	17234	2.00	2.11	
80 2-Hexanone	43	10.994	10.994	0.000	96	50751	10.0	9.73	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	32119	2.00	2.00	
82 1,3-Dichloropropane	76	11.053	11.053	0.000	90	33991	2.00	2.00	
83 Chlorodibromomethane	129	11.266	11.266	0.000	90	22332	2.00	1.86	
84 Ethylene Dibromide	107	11.397	11.397	0.000	99	19352	2.00	1.99	
87 Chlorobenzene	112	11.741	11.741	0.000	96	86999	2.00	2.04	
88 Ethylbenzene	91	11.753	11.753	0.000	97	135339	2.00	1.94	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	88	28971	2.00	1.91	
90 m-Xylene & p-Xylene	106	11.836	11.836	0.000	97	52818	2.00	1.98	
91 o-Xylene	106	12.180	12.180	0.000	97	51829	2.00	1.94	
92 Styrene	104	12.191	12.191	0.000	92	84304	2.00	1.93	
95 Bromoform	173	12.452	12.452	0.000	42	10731	2.00	1.91	
94 Isopropylbenzene	105	12.452	12.452	0.000	96	135630	2.00	1.98	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	94	21512	2.00	1.99	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	80	3403	2.00	1.87	
99 N-Propylbenzene	91	12.796	12.796	0.000	98	151699	2.00	1.91	
100 1,2,3-Trichloropropane	110	12.808	12.808	0.000	84	7254	2.00	2.04	
101 Bromobenzene	156	12.844	12.844	0.000	88	34268	2.00	1.93	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	93	115876	2.00	1.98	
103 2-Chlorotoluene	126	12.962	12.962	0.000	97	34951	2.00	2.00	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	36402	2.00	1.99	
106 tert-Butylbenzene	134	13.247	13.247	0.000	92	25246	2.00	1.93	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	94	120009	2.00	1.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.437	13.437	-0.001	94	138321	2.00	1.95	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	124428	2.00	1.94	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	96	71864	2.00	1.97	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	95	75998	2.00	2.02	
115 n-Butylbenzene	91	13.946	13.946	0.000	97	104770	2.00	1.89	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	97	65848	2.00	1.99	
117 1,2-Dibromo-3-Chloropropan	75	15.014	15.014	0.000	76	5865	2.00	2.36	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	94	47192	2.00	2.00	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	93	18684	2.00	1.97	
121 Naphthalene	128	16.472	16.460	0.012	96	82597	2.00	1.98	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	95	40416	2.00	1.98	
S 126 1,3-Dichloropropene, Total	1				0			3.80	
S 123 Total BTEX	1				0			9.85	
S 124 Xylenes, Total	1				0			3.92	
S 125 1,2-Dichloroethene, Total	1				0			3.93	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00123

Amount Added: 2.00

Units: uL

GAS CORP mix_00274

Amount Added: 2.00

Units: uL

C_8260_IS_00110

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00126

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180409-70509.b\\C4173.D

Injection Date: 09-Apr-2018 15:21:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

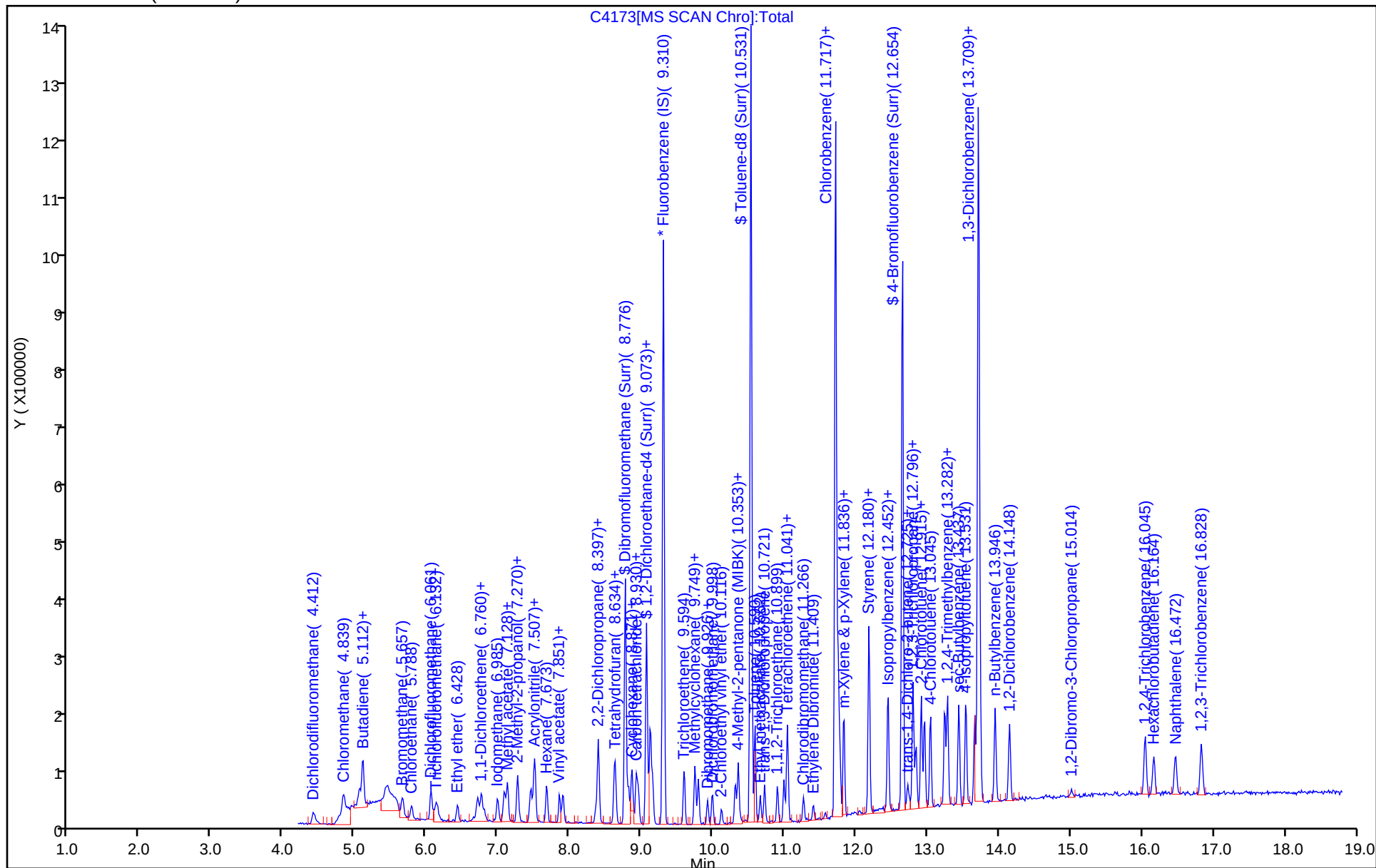
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4173.D

Injection Date: 09-Apr-2018 15:21:30

Instrument ID: HP5973C

Lims ID: IC 2

Client ID:

Operator ID: RR

ALS Bottle#:

6

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

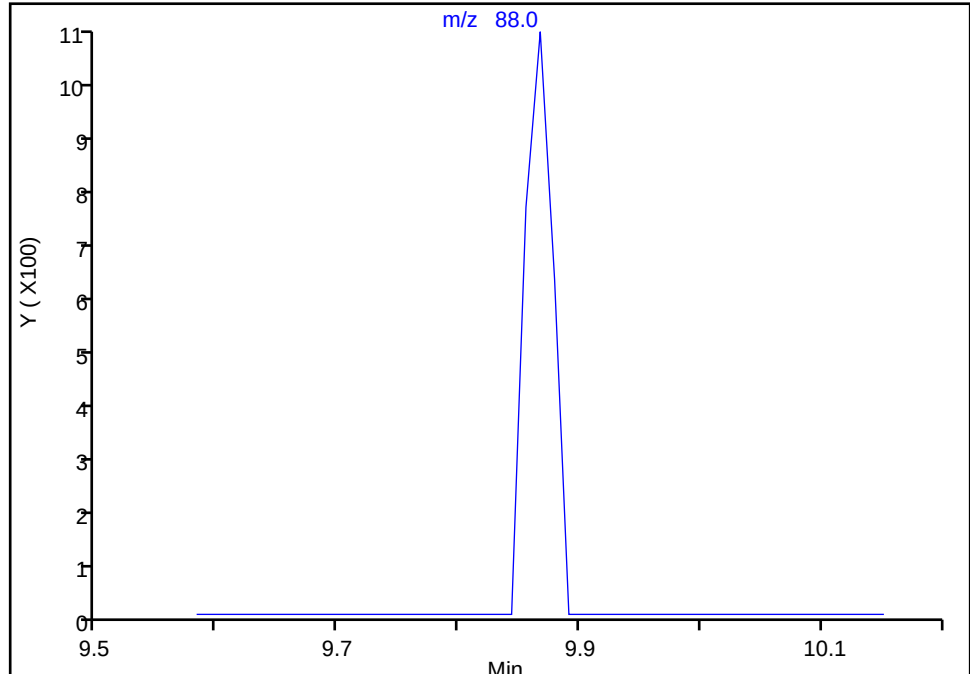
66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 9.86

Processing Integration Results



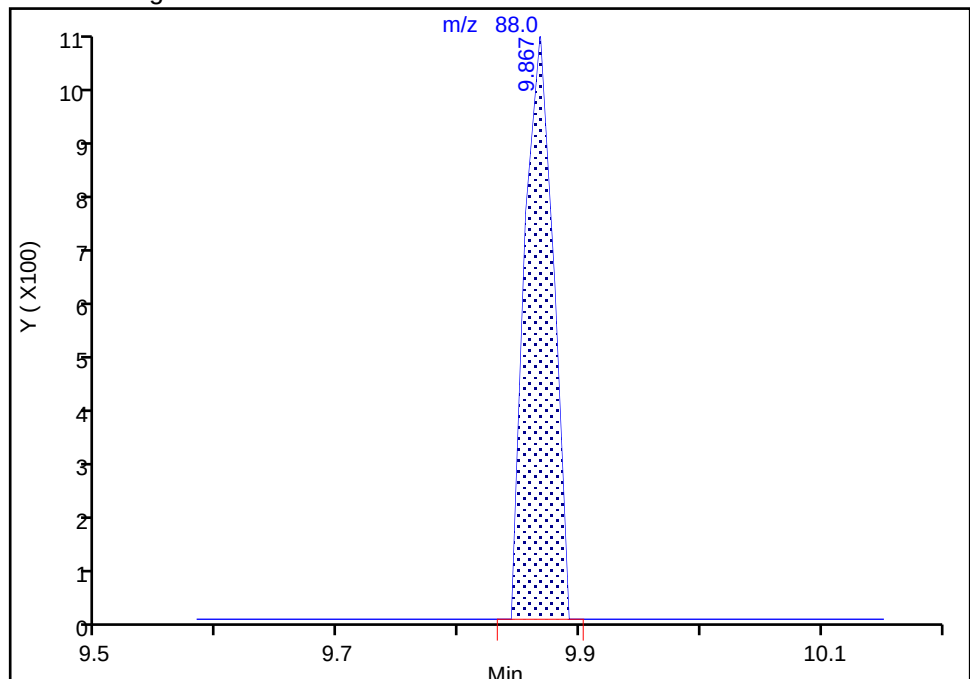
RT: 9.87

Area: 1755

Amount: 31.942694

Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:47:03

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4174.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Apr-2018 15:46:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0070509-007
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:48:46 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 10-Apr-2018 12:47:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	172400	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	86	363740	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	381768	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	240817	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.073	0.000	98	113283	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	94	913945	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	303304	25.0	24.8	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	109321	5.00	5.05	
12 Chloromethane	50	4.839	4.839	0.000	99	106672	5.00	4.49	
13 Vinyl chloride	62	5.052	5.052	0.000	99	93558	5.00	4.79	
151 Butadiene	54	5.112	5.112	0.000	96	94508	5.00	4.80	
14 Bromomethane	94	5.669	5.669	0.000	93	62777	5.00	4.52	
15 Chloroethane	64	5.788	5.788	0.000	100	54825	5.00	4.67	
16 Dichlorofluoromethane	67	6.060	6.060	0.000	97	135734	5.00	4.59	
17 Trichlorofluoromethane	101	6.143	6.143	0.000	98	133113	5.00	4.78	
18 Ethyl ether	59	6.428	6.428	0.000	90	39405	5.00	4.44	
20 Acrolein	56	6.653	6.653	0.000	96	17970	25.0	21.6	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	93	62981	5.00	4.71	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	98	61100	5.00	4.66	
23 Acetone	43	6.808	6.808	0.000	98	68149	25.0	22.3	
25 Iodomethane	142	6.997	6.997	0.000	99	122331	5.00	4.48	
26 Carbon disulfide	76	7.080	7.080	0.000	100	238182	5.00	4.63	
27 Methyl acetate	43	7.104	7.104	0.000	98	48162	10.0	8.67	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	81	95801	5.00	4.49	
30 Methylene Chloride	84	7.270	7.270	0.000	94	74730	5.00	4.24	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	98	33981	50.0	44.2	
32 Methyl tert-butyl ether	73	7.460	7.460	0.000	97	149074	5.00	4.40	
33 Acrylonitrile	53	7.495	7.495	0.000	100	108894	50.0	43.8	
34 trans-1,2-Dichloroethene	96	7.519	7.519	0.000	98	72741	5.00	4.70	
35 Hexane	57	7.673	7.673	0.000	95	77902	5.00	4.90	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	98	166602	10.0	8.88	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	96	116197	5.00	4.72	
43 2-Butanone (MEK)	43	8.361	8.361	0.000	100	78914	25.0	22.0	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	71	104513	5.00	4.62	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	81	79172	5.00	4.57	
48 Chlorobromomethane	128	8.622	8.622	0.000	90	36782	5.00	4.65	
50 Chloroform	83	8.634	8.634	0.000	94	126010	5.00	4.60	
49 Tetrahydrofuran	42	8.646	8.646	0.000	80	19886	10.0	8.34	
51 1,1,1-Trichloroethane	97	8.824	8.824	0.000	97	108802	5.00	4.58	
52 Cyclohexane	56	8.859	8.859	0.000	93	101741	5.00	4.79	
53 Isobutyl alcohol	43	8.871	8.871	0.000	57	40659	125.0	105.9	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	96	88807	5.00	4.79	
55 Carbon tetrachloride	117	8.954	8.954	0.000	98	95811	5.00	4.76	
57 Benzene	78	9.120	9.120	0.000	96	262625	5.00	4.54	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	97	79314	5.00	4.47	
59 n-Heptane	43	9.156	9.156	0.000	90	73183	5.00	4.65	
62 Trichloroethene	95	9.594	9.594	0.000	95	72177	5.00	4.69	
64 Methylcyclohexane	83	9.748	9.748	0.000	88	106329	5.00	4.85	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	92	60611	5.00	4.59	
66 1,4-Dioxane	88	9.867	9.867	0.000	27	4574	100.0	81.3	a
67 Dibromomethane	93	9.926	9.926	0.000	96	34628	5.00	4.46	
68 Dichlorobromomethane	83	9.997	9.997	0.000	98	82510	5.00	4.37	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	94	26789	5.00	4.51	
72 cis-1,3-Dichloropropene	75	10.318	10.318	0.000	97	91263	5.00	4.50	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	163067	25.0	21.9	
74 Toluene	92	10.590	10.590	0.000	98	171812	5.00	4.67	
75 Ethyl methacrylate	69	10.662	10.662	0.000	88	47053	5.00	4.25	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	95	75431	5.00	4.47	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	92	38512	5.00	4.60	
80 2-Hexanone	43	10.994	10.994	0.000	96	114133	25.0	21.4	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	78007	5.00	4.75	
82 1,3-Dichloropropane	76	11.053	11.053	0.000	91	78443	5.00	4.52	
83 Chlorodibromomethane	129	11.266	11.266	0.000	89	53275	5.00	4.33	
84 Ethylene Dibromide	107	11.397	11.397	0.000	97	45418	5.00	4.55	
87 Chlorobenzene	112	11.741	11.741	0.000	95	201469	5.00	4.62	
88 Ethylbenzene	91	11.753	11.753	0.000	97	326128	5.00	4.56	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	93	67557	5.00	4.36	
90 m-Xylene & p-Xylene	106	11.836	11.836	0.000	98	127519	5.00	4.66	
91 o-Xylene	106	12.179	12.179	0.000	97	124459	5.00	4.55	
92 Styrene	104	12.191	12.191	0.000	92	196506	5.00	4.40	
94 Isopropylbenzene	105	12.452	12.452	0.000	96	326033	5.00	4.66	
95 Bromoform	173	12.452	12.452	0.000	43	26449	5.00	4.60	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	96	49437	5.00	4.48	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	85	10681	5.00	4.47	M
99 N-Propylbenzene	91	12.796	12.796	0.000	99	369622	5.00	4.58	
100 1,2,3-Trichloropropane	110	12.796	12.796	0.000	81	15978	5.00	4.41	
101 Bromobenzene	156	12.844	12.844	0.000	89	83591	5.00	4.63	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	93	276006	5.00	4.64	
103 2-Chlorotoluene	126	12.962	12.962	0.000	97	82249	5.00	4.63	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	86275	5.00	4.62	
106 tert-Butylbenzene	134	13.247	13.247	0.000	92	62227	5.00	4.66	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	96	289936	5.00	4.54	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.436	13.436	0.000	94	336296	5.00	4.66	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	297769	5.00	4.56	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	97	170989	5.00	4.61	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	96	173925	5.00	4.54	
115 n-Butylbenzene	91	13.946	13.946	0.000	98	251577	5.00	4.45	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	98	154799	5.00	4.59	
117 1,2-Dibromo-3-Chloropropan	75	15.002	15.002	0.000	85	10946	5.00	4.68	M
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	106768	5.00	4.45	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	96	42642	5.00	4.42	
121 Naphthalene	128	16.460	16.460	0.000	97	189231	5.00	4.45	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	95	94159	5.00	4.54	
S 124 Xylenes, Total	1				0			9.21	
S 125 1,2-Dichloroethene, Total	1				0			9.27	
S 126 1,3-Dichloropropene, Total	1				0			8.98	
S 123 Total BTEX	1				0			23.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00123

Amount Added: 5.00

Units: uL

GAS CORP mix_00274

Amount Added: 5.00

Units: uL

C_8260_IS_00110

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00126

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4174.D

Injection Date: 09-Apr-2018 15:46:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

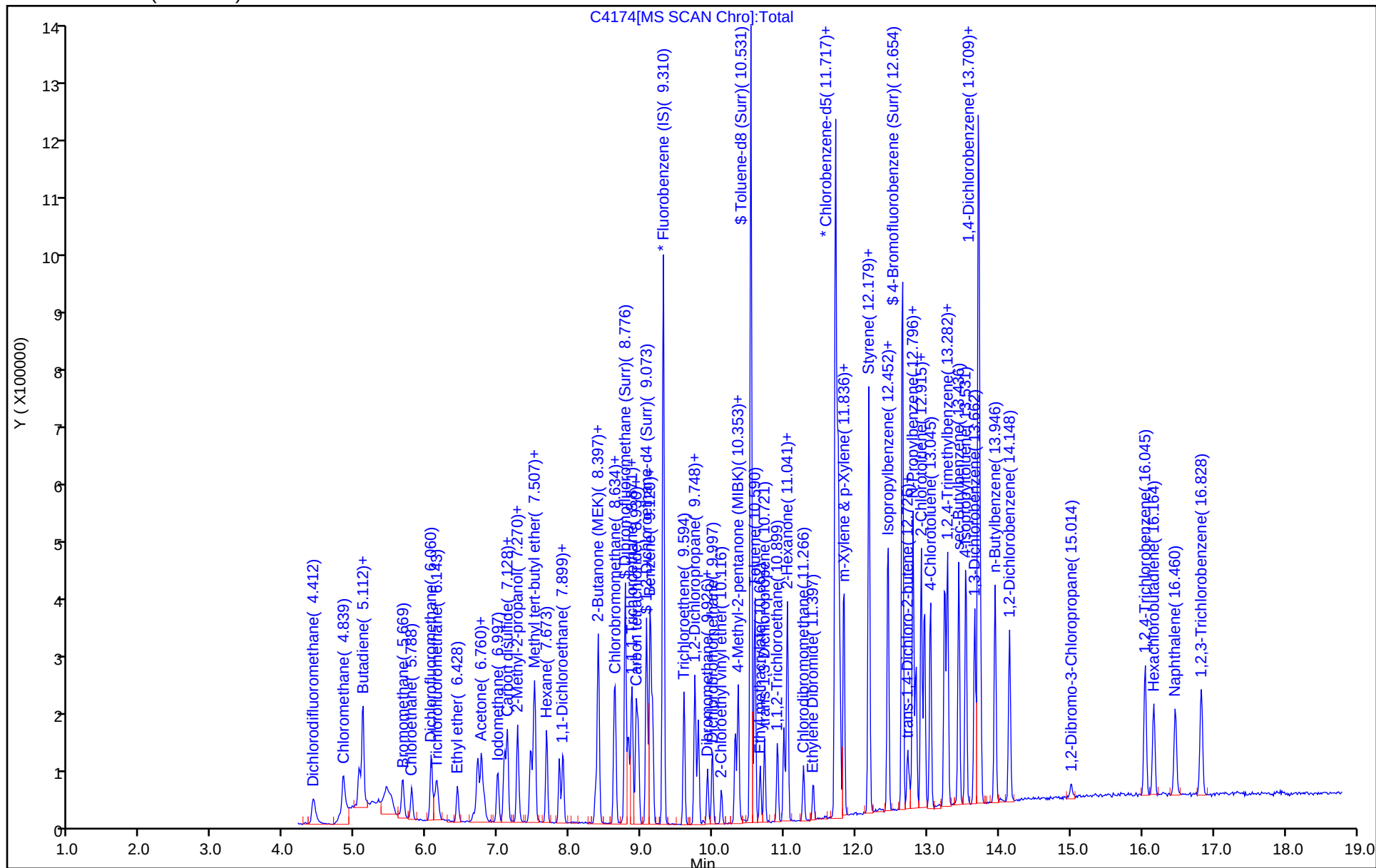
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

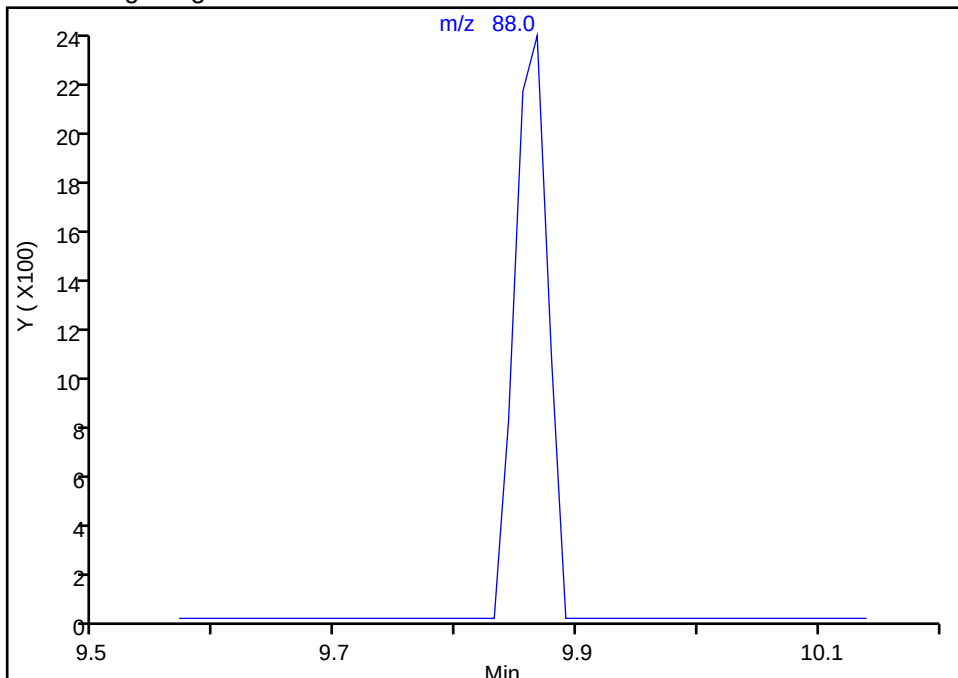
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4174.D
Injection Date: 09-Apr-2018 15:46:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

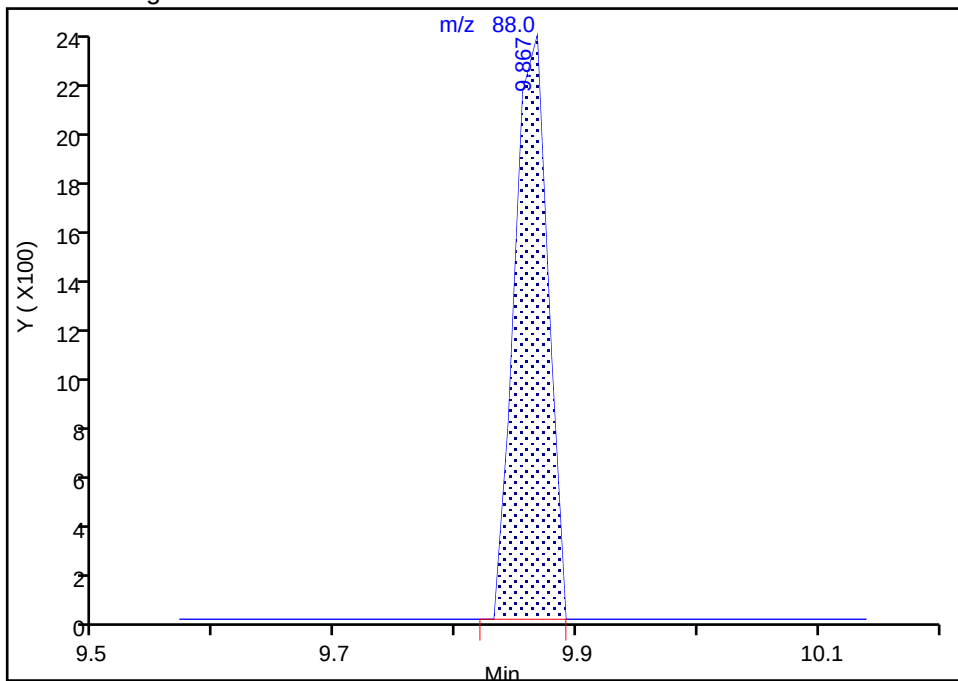
Not Detected
Expected RT: 9.87

Processing Integration Results



RT: 9.87
Area: 4574
Amount: 81.322252
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:48:49

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4174.D

Injection Date: 09-Apr-2018 15:46:30

Instrument ID: HP5973C

Lims ID: IC 3

Client ID:

Operator ID: RR

ALS Bottle#:

7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

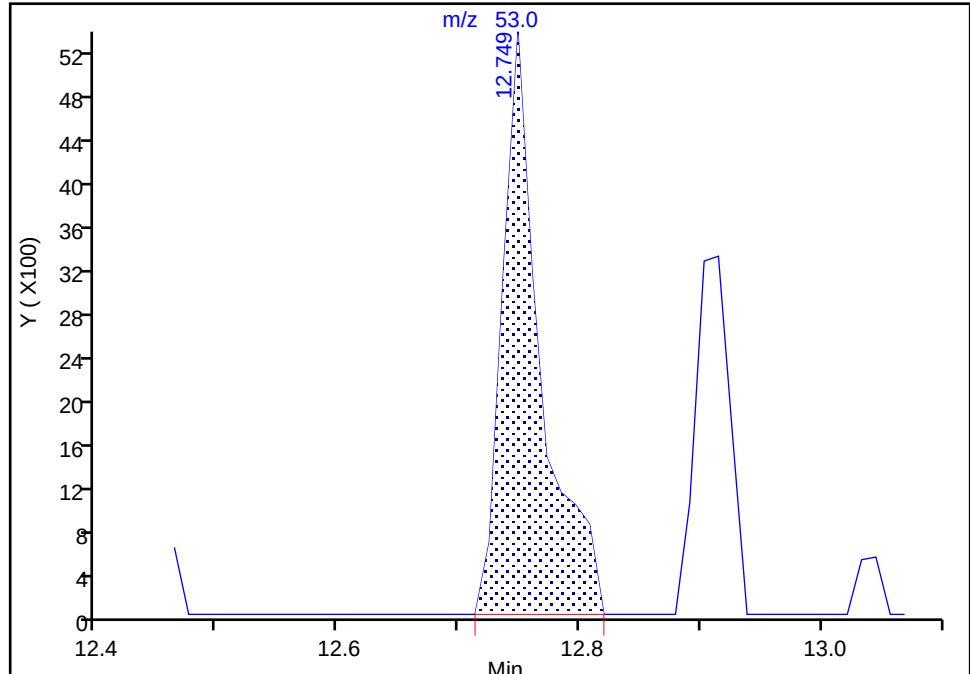
MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

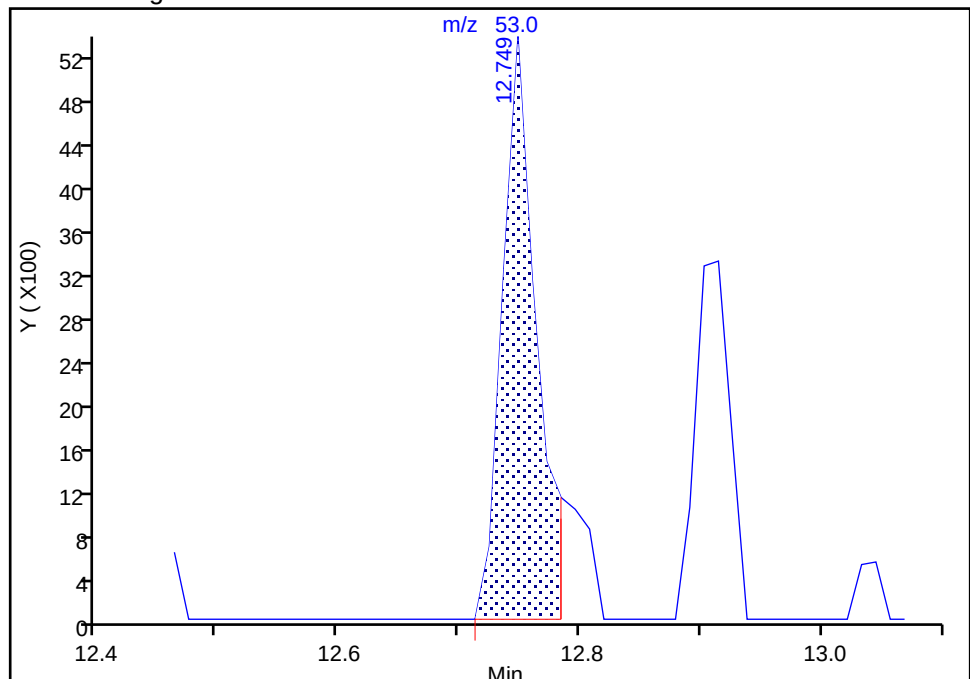
RT: 12.75
Area: 11997
Amount: 4.977590
Amount Units: ug/L

Processing Integration Results



RT: 12.75
Area: 10681
Amount: 4.473368
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 13:01:44

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4174.D

Injection Date: 09-Apr-2018 15:46:30

Instrument ID: HP5973C

Lims ID: IC 3

Client ID:

Operator ID: RR

ALS Bottle#:

7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

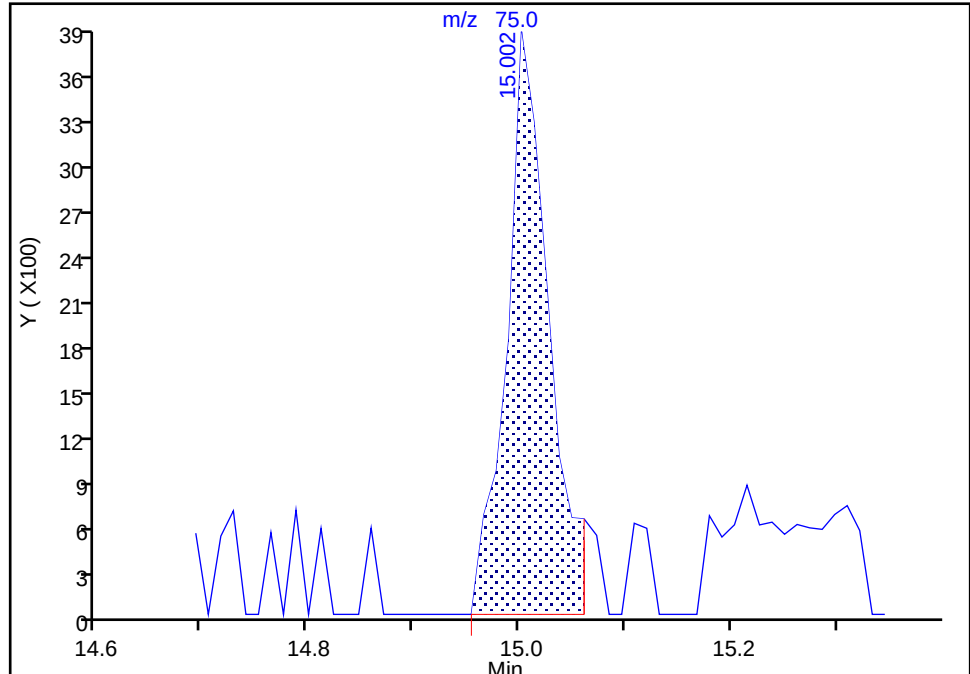
MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

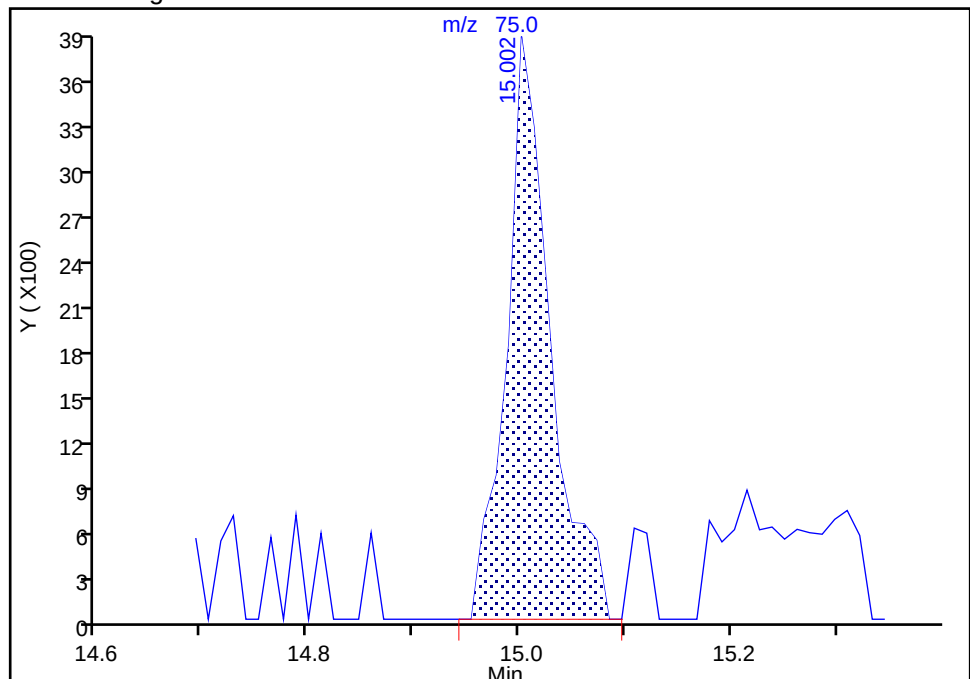
RT: 15.00
Area: 10580
Amount: 4.552007
Amount Units: ug/L

Processing Integration Results



RT: 15.00
Area: 10946
Amount: 4.680346
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:49:12

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4175.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Apr-2018 16:11:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0070509-008
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:48:55 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 10-Apr-2018 12:50:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	170276	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	359044	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	385703	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	236318	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.073	0.000	97	108670	25.0	24.7	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	905365	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	301399	25.0	24.9	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	189138	10.0	8.85	
12 Chloromethane	50	4.839	4.839	0.000	100	200968	10.0	8.57	
13 Vinyl chloride	62	5.052	5.052	0.000	98	172901	10.0	8.97	
151 Butadiene	54	5.100	5.112	-0.012	97	177341	10.0	9.13	
14 Bromomethane	94	5.657	5.669	-0.012	92	124461	10.0	9.08	
15 Chloroethane	64	5.788	5.788	0.000	99	102835	10.0	8.86	
16 Dichlorofluoromethane	67	6.060	6.060	0.000	97	262429	10.0	8.99	
17 Trichlorofluoromethane	101	6.143	6.143	0.000	99	250946	10.0	9.13	
18 Ethyl ether	59	6.428	6.428	0.000	92	78593	10.0	8.97	
20 Acrolein	56	6.653	6.653	0.000	99	35843	50.0	43.5	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	91	114084	10.0	8.64	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	98	113931	10.0	8.79	
23 Acetone	43	6.796	6.808	-0.012	99	135877	50.0	44.9	
25 Iodomethane	142	6.985	6.997	-0.012	99	245746	10.0	9.12	
26 Carbon disulfide	76	7.080	7.080	0.000	100	461404	10.0	9.07	
27 Methyl acetate	43	7.104	7.104	0.000	98	99379	20.0	18.1	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	80	186698	10.0	8.86	
30 Methylene Chloride	84	7.270	7.270	0.000	90	147202	10.0	8.88	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	97	66248	100.0	87.3	
32 Methyl tert-butyl ether	73	7.448	7.460	-0.012	96	300387	10.0	8.98	
33 Acrylonitrile	53	7.495	7.495	0.000	100	229033	100.0	93.3	
34 trans-1,2-Dichloroethene	96	7.507	7.519	-0.012	98	131811	10.0	8.63	
35 Hexane	57	7.673	7.673	0.000	94	138362	10.0	8.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	98	331761	20.0	17.9	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	96	227498	10.0	9.35	
43 2-Butanone (MEK)	43	8.361	8.361	0.000	100	161061	50.0	45.4	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	82	152463	10.0	8.91	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	71	201685	10.0	9.03	
48 Chlorobromomethane	128	8.622	8.622	0.000	89	71730	10.0	9.19	
49 Tetrahydrofuran	42	8.646	8.646	0.000	87	42184	20.0	17.9	
50 Chloroform	83	8.634	8.634	0.000	94	244491	10.0	9.03	
51 1,1,1-Trichloroethane	97	8.823	8.824	-0.001	98	215023	10.0	9.16	
52 Cyclohexane	56	8.871	8.859	0.012	91	179952	10.0	8.58	
53 Isobutyl alcohol	43	8.871	8.871	0.000	93	83234	250.0	219.5	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	95	164369	10.0	8.98	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	180552	10.0	9.08	
57 Benzene	78	9.120	9.120	0.000	96	520427	10.0	9.12	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	97	159236	10.0	9.09	
59 n-Heptane	43	9.156	9.156	0.000	92	134833	10.0	8.68	
62 Trichloroethene	95	9.594	9.594	0.000	96	138636	10.0	9.12	
64 Methylcyclohexane	83	9.748	9.748	0.000	89	192358	10.0	8.89	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	93	121425	10.0	9.32	
66 1,4-Dioxane	88	9.867	9.867	0.000	67	10080	200.0	181.6	a
67 Dibromomethane	93	9.926	9.926	0.000	93	69364	10.0	9.04	
68 Dichlorobromomethane	83	9.997	9.997	0.000	98	169903	10.0	9.11	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	94	53591	10.0	9.14	
72 cis-1,3-Dichloropropene	75	10.318	10.318	0.000	96	179115	10.0	8.95	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	329752	50.0	44.9	
74 Toluene	92	10.590	10.590	0.000	98	331341	10.0	9.12	
75 Ethyl methacrylate	69	10.662	10.662	0.000	90	98992	10.0	9.06	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	95	153166	10.0	9.20	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	91	75254	10.0	9.10	
80 2-Hexanone	43	10.994	10.994	0.000	97	236494	50.0	44.9	
81 Tetrachloroethene	166	11.041	11.041	0.000	96	148534	10.0	9.16	
82 1,3-Dichloropropane	76	11.053	11.053	0.000	91	158210	10.0	9.23	
83 Chlorodibromomethane	129	11.266	11.266	0.000	90	110614	10.0	9.10	
84 Ethylene Dibromide	107	11.397	11.397	0.000	98	92502	10.0	9.39	
87 Chlorobenzene	112	11.741	11.741	0.000	93	396433	10.0	9.22	
88 Ethylbenzene	91	11.753	11.753	0.000	98	644966	10.0	9.14	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	93	144770	10.0	9.46	
90 m-Xylene & p-Xylene	106	11.836	11.836	0.000	98	251610	10.0	9.32	
91 o-Xylene	106	12.179	12.179	0.000	98	249800	10.0	9.24	
92 Styrene	104	12.191	12.191	0.000	93	407599	10.0	9.25	
95 Bromoform	173	12.452	12.452	0.000	43	53805	10.0	9.49	
94 Isopropylbenzene	105	12.452	12.452	0.000	96	633455	10.0	8.96	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	96	103254	10.0	9.27	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	90	21090	10.0	8.16	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	736002	10.0	9.02	
100 1,2,3-Trichloropropane	110	12.808	12.796	0.012	83	33053	10.0	9.03	
101 Bromobenzene	156	12.844	12.844	0.000	86	172651	10.0	9.47	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	94	548185	10.0	9.12	
103 2-Chlorotoluene	126	12.962	12.962	0.000	97	165793	10.0	9.24	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	173072	10.0	9.18	
106 tert-Butylbenzene	134	13.247	13.247	0.000	92	120068	10.0	8.90	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	96	587625	10.0	9.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.436	13.436	0.000	94	654054	10.0	8.97	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	591695	10.0	8.96	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	98	343072	10.0	9.15	
113 1,4-Dichlorobenzene	146	13.745	13.733	0.012	96	350935	10.0	9.07	
115 n-Butylbenzene	91	13.946	13.946	0.000	98	499100	10.0	8.74	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	98	310132	10.0	9.09	
117 1,2-Dibromo-3-Chloropropan	75	15.002	15.002	0.000	86	19815	10.0	8.72	M
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	220776	10.0	9.11	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	97	89141	10.0	9.14	
121 Naphthalene	128	16.460	16.460	0.000	97	388971	10.0	9.06	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	96	192473	10.0	9.18	
S 126 1,3-Dichloropropene, Total	1				0			18.2	
S 123 Total BTEX	1				0			45.9	
S 124 Xylenes, Total	1				0			18.6	
S 125 1,2-Dichloroethene, Total	1				0			17.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00123

Amount Added: 5.00

Units: uL

GAS CORP mix_00274

Amount Added: 5.00

Units: uL

C_8260_IS_00110

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00126

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180409-70509.b\\C4175.D

Injection Date: 09-Apr-2018 16:11:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: IC 4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

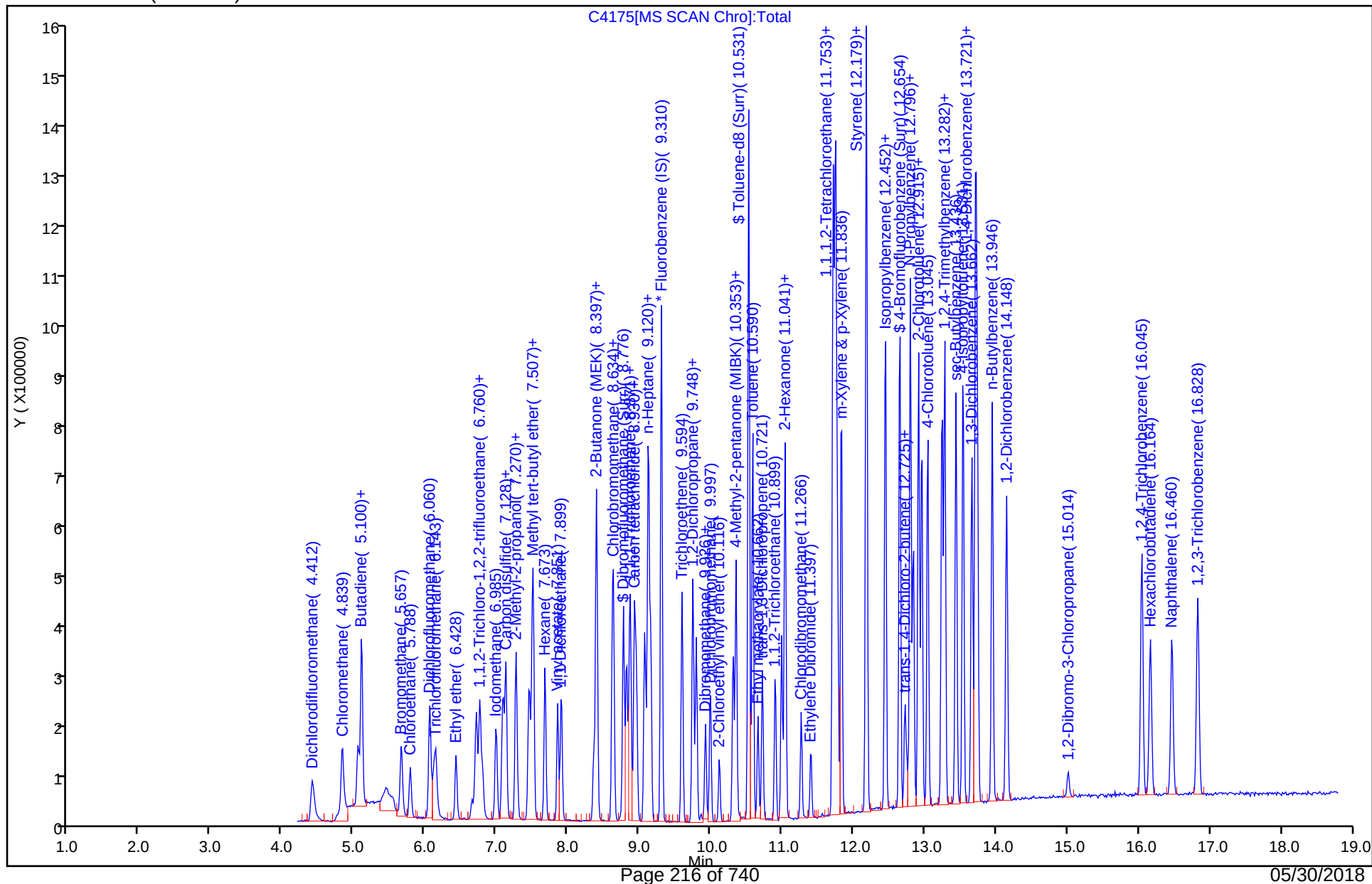
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4175.D

Injection Date: 09-Apr-2018 16:11:30

Instrument ID: HP5973C

Lims ID: IC 4

Client ID:

Operator ID: RR

ALS Bottle#:

8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

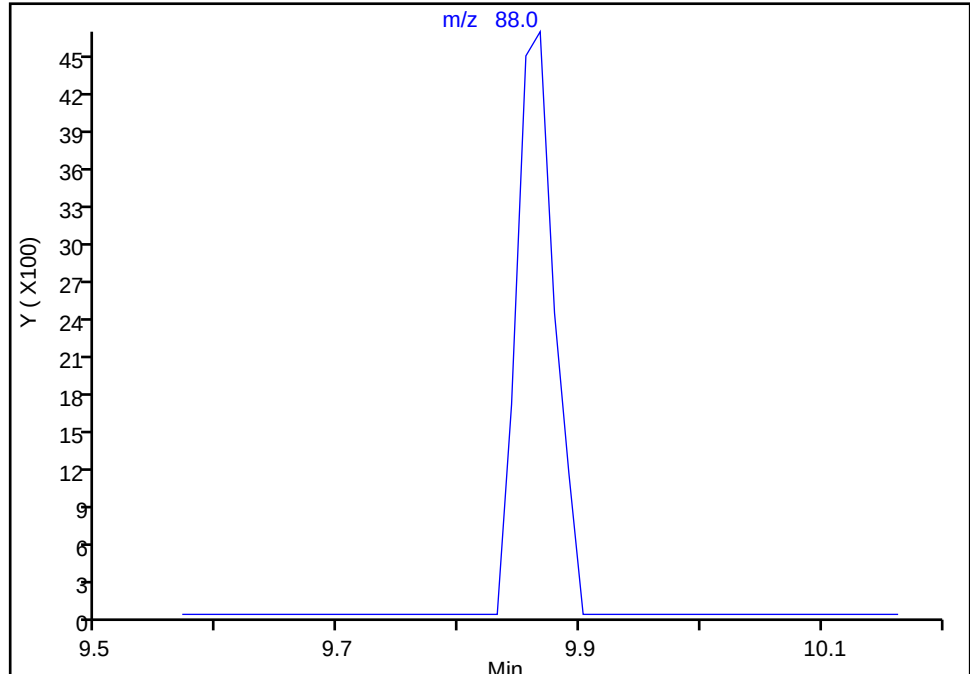
66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

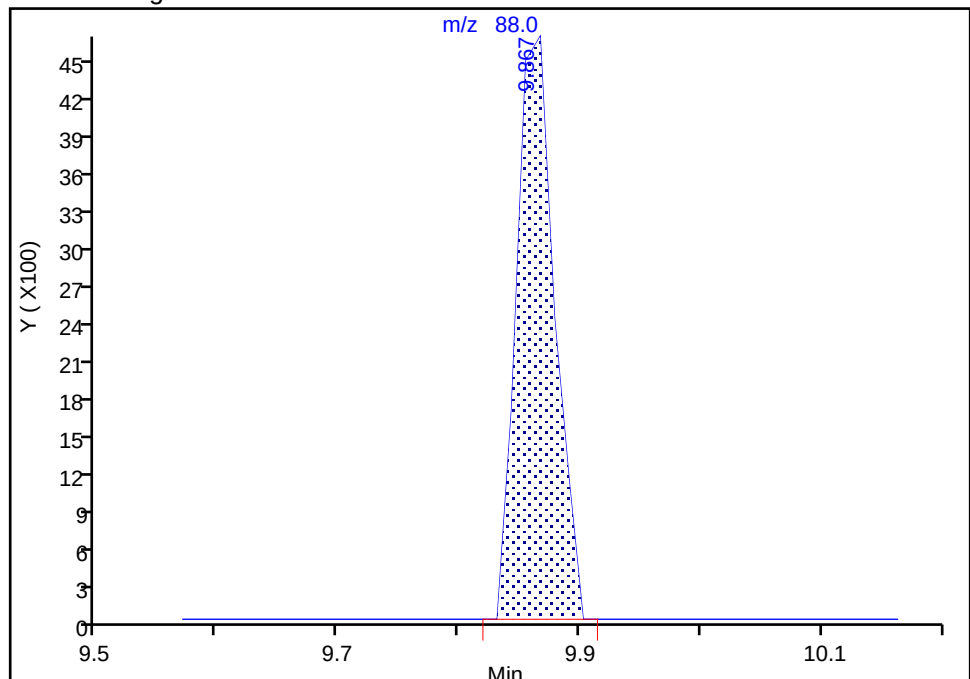
Not Detected

Expected RT: 9.87

Processing Integration Results



Manual Integration Results



RT: 9.87

Area: 10080

Amount: 181.5587

Amount Units: ug/L

Reviewer: reiler, 10-Apr-2018 12:49:54

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4175.D

Injection Date: 09-Apr-2018 16:11:30

Instrument ID: HP5973C

Lims ID: IC 4

Client ID:

Operator ID: RR

ALS Bottle#:

8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

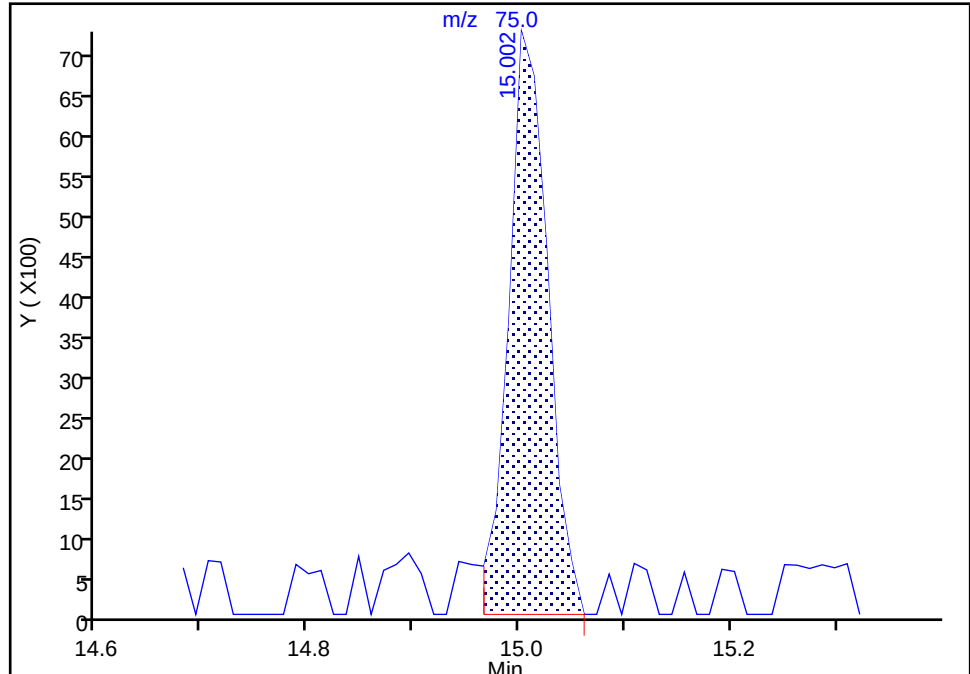
MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

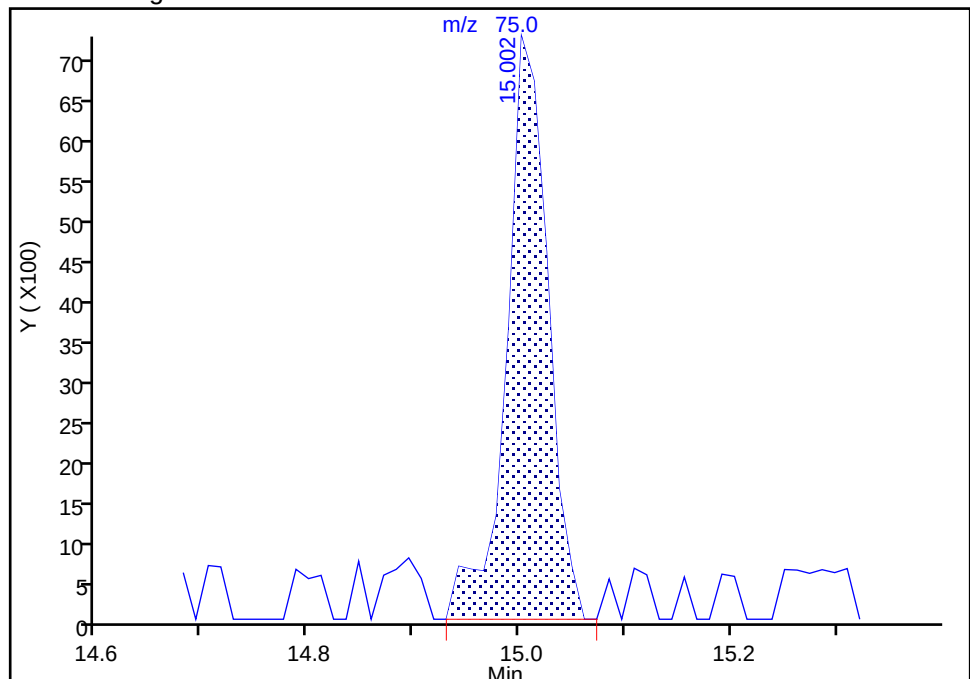
RT: 15.00
Area: 18899
Amount: 8.329510
Amount Units: ug/L

Processing Integration Results



RT: 15.00
Area: 19815
Amount: 8.722478
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:50:31

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4176.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 09-Apr-2018 16:37:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0070509-009
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:49:04 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 10-Apr-2018 16:03:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	167635	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	83	363464	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	76	384934	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	58	230241	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.073	0.000	92	107994	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	915152	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	305839	25.0	25.0	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	87	558510	25.0	26.5	
12 Chloromethane	50	4.839	4.839	0.000	89	559674	25.0	24.2	
13 Vinyl chloride	62	5.053	5.053	0.000	99	490453	25.0	25.8	
151 Butadiene	54	5.112	5.112	0.000	95	484524	25.0	25.3	
14 Bromomethane	94	5.657	5.657	0.000	92	356591	25.0	26.4	
15 Chloroethane	64	5.788	5.788	0.000	94	306427	25.0	26.8	
16 Dichlorofluoromethane	67	6.061	6.061	0.000	83	770646	25.0	26.8	
17 Trichlorofluoromethane	101	6.144	6.144	0.000	96	705568	25.0	26.1	
18 Ethyl ether	59	6.428	6.428	0.000	92	236732	25.0	27.5	
20 Acrolein	56	6.654	6.654	0.000	94	108633	125.0	134.1	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	85	348434	25.0	26.8	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	89	335190	25.0	26.3	
23 Acetone	43	6.796	6.796	0.000	98	390204	125.0	131.1	
25 Iodomethane	142	6.986	6.986	0.000	99	729714	25.0	27.5	
26 Carbon disulfide	76	7.080	7.080	0.000	100	1349720	25.0	27.0	
27 Methyl acetate	43	7.104	7.104	0.000	62	285204	50.0	52.8	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	83	547363	25.0	26.4	
30 Methylene Chloride	84	7.270	7.270	0.000	90	409610	25.0	25.9	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	76	205535	250.0	275.0	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	91	899720	25.0	27.3	
33 Acrylonitrile	53	7.495	7.495	0.000	98	689235	250.0	285.1	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	95	389685	25.0	25.9	
35 Hexane	57	7.673	7.673	0.000	94	417429	25.0	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	1041299	50.0	57.1	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	85	656247	25.0	27.4	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	100	485925	125.0	139.1	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	70	596039	25.0	27.1	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	69	450882	25.0	26.8	
48 Chlorobromomethane	128	8.622	8.622	0.000	72	209177	25.0	27.2	
50 Chloroform	83	8.634	8.634	0.000	82	721650	25.0	27.1	
49 Tetrahydrofuran	42	8.634	8.634	0.000	44	116169	50.0	50.1	
51 1,1,1-Trichloroethane	97	8.824	8.824	0.000	91	638859	25.0	27.7	
52 Cyclohexane	56	8.859	8.859	0.000	90	545121	25.0	26.4	
53 Isobutyl alcohol	43	8.871	8.871	0.000	59	254112	625.0	680.5	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	82	493483	25.0	27.4	
55 Carbon tetrachloride	117	8.954	8.954	0.000	79	535267	25.0	27.3	
57 Benzene	78	9.120	9.120	0.000	96	1525047	25.0	27.1	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	49	468241	25.0	27.2	
59 n-Heptane	43	9.156	9.156	0.000	93	411042	25.0	26.9	
62 Trichloroethene	95	9.594	9.594	0.000	93	408069	25.0	27.3	
64 Methylcyclohexane	83	9.749	9.749	0.000	89	600383	25.0	28.2	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	90	360377	25.0	28.1	
66 1,4-Dioxane	88	9.855	9.855	0.000	83	32482	500.0	577.9	
67 Dibromomethane	93	9.926	9.926	0.000	85	207414	25.0	27.4	
68 Dichlorobromomethane	83	9.998	9.998	0.000	71	518017	25.0	28.2	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	93	159540	25.0	27.6	
72 cis-1,3-Dichloropropene	75	10.318	10.318	0.000	91	552231	25.0	28.0	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	1041395	125.0	140.0	
74 Toluene	92	10.591	10.591	0.000	94	988859	25.0	26.9	
75 Ethyl methacrylate	69	10.662	10.662	0.000	87	327217	25.0	29.6	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	84	477823	25.0	28.4	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	93	229109	25.0	27.4	
80 2-Hexanone	43	10.994	10.994	0.000	96	759065	125.0	142.3	
81 Tetrachloroethene	166	11.041	11.041	0.000	91	445403	25.0	27.1	
82 1,3-Dichloropropane	76	11.053	11.053	0.000	77	475227	25.0	27.4	
83 Chlorodibromomethane	129	11.266	11.266	0.000	89	350442	25.0	28.5	
84 Ethylene Dibromide	107	11.397	11.397	0.000	98	275434	25.0	27.6	
87 Chlorobenzene	112	11.741	11.741	0.000	91	1169088	25.0	26.8	
88 Ethylbenzene	91	11.753	11.753	0.000	97	1896614	25.0	26.5	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	74	426385	25.0	27.5	
90 m-Xylene & p-Xylene	106	11.836	11.836	0.000	99	754371	25.0	27.6	
91 o-Xylene	106	12.180	12.180	0.000	88	749846	25.0	27.4	
92 Styrene	104	12.191	12.191	0.000	93	1259228	25.0	28.2	
94 Isopropylbenzene	105	12.452	12.452	0.000	95	1930465	25.0	27.4	
95 Bromoform	173	12.452	12.452	0.000	44	177331	25.0	30.9	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	73	308602	25.0	27.8	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	95	69718	25.0	25.6	
100 1,2,3-Trichloropropane	110	12.808	12.808	0.000	41	99224	25.0	27.2	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	2210521	25.0	27.1	
101 Bromobenzene	156	12.844	12.844	0.000	82	506063	25.0	27.8	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	70	1664799	25.0	27.7	
103 2-Chlorotoluene	126	12.962	12.962	0.000	97	490970	25.0	27.4	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	505018	25.0	26.8	
106 tert-Butylbenzene	134	13.247	13.247	0.000	86	372832	25.0	27.7	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	96	1769471	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.437	13.437	0.000	94	2027774	25.0	27.9	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	1808530	25.0	27.4	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	98	1025168	25.0	27.4	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	91	1030522	25.0	26.7	
115 n-Butylbenzene	91	13.946	13.946	0.000	97	1518261	25.0	26.6	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	98	931536	25.0	27.4	
117 1,2-Dibromo-3-Chloropropan	75	15.014	15.014	0.000	76	52846	25.0	24.0	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	94	658920	25.0	27.2	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	92	266739	25.0	27.4	
121 Naphthalene	128	16.460	16.460	0.000	97	1201512	25.0	28.0	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	95	578713	25.0	27.6	

Reagents:

8260 CORP mix_00123	Amount Added: 12.50	Units: uL	
GAS CORP mix_00274	Amount Added: 12.50	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180409-70509.b\\C4176.D

Injection Date: 09-Apr-2018 16:37:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: ICIS 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

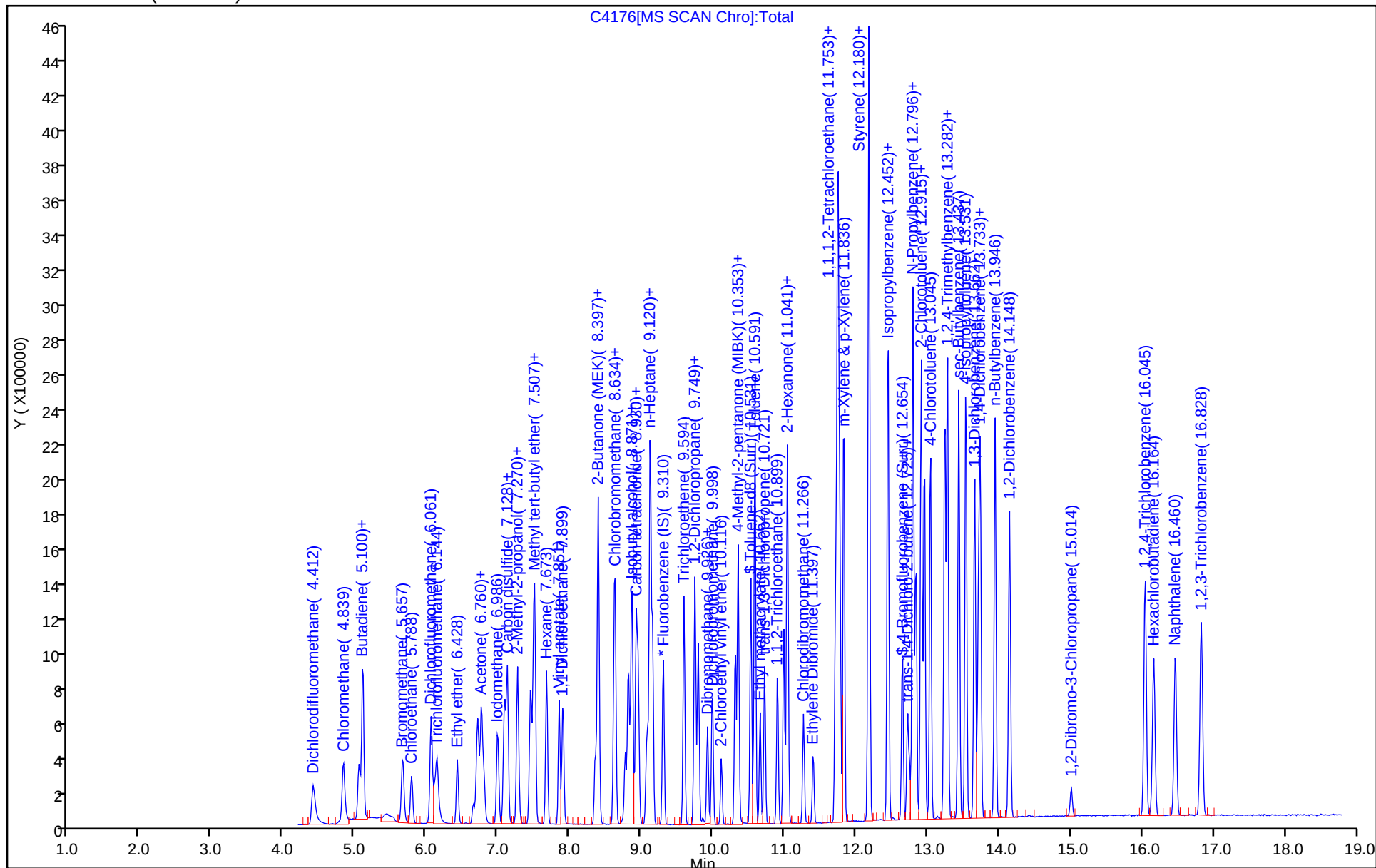
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4177.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Apr-2018 17:01:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0070509-010
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:49:10 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 10-Apr-2018 12:51:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	170653	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	83	373830	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	95	398343	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	92	238159	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.073	-0.001	94	110213	25.0	25.0	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	930890	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	311693	25.0	24.8	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	1061566	50.0	49.6	
12 Chloromethane	50	4.839	4.839	0.000	100	1074428	50.0	45.7	
13 Vinyl chloride	62	5.052	5.053	-0.001	99	936548	50.0	48.5	
151 Butadiene	54	5.100	5.112	-0.012	97	940506	50.0	48.3	
14 Bromomethane	94	5.657	5.657	0.000	92	696786	50.0	50.7	
15 Chloroethane	64	5.788	5.788	0.000	100	580935	50.0	49.9	
16 Dichlorofluoromethane	67	6.060	6.061	-0.001	97	1436394	50.0	49.1	
17 Trichlorofluoromethane	101	6.143	6.144	-0.001	97	1377103	50.0	50.0	
18 Ethyl ether	59	6.428	6.428	0.000	92	472207	50.0	53.8	
20 Acrolein	56	6.653	6.654	-0.001	99	225996	250.0	273.9	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	92	766989	50.0	58.0	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	98	697140	50.0	53.7	
23 Acetone	43	6.796	6.796	0.000	99	775810	250.0	256.0	
25 Iodomethane	142	6.985	6.986	-0.001	99	1465910	50.0	54.3	
26 Carbon disulfide	76	7.080	7.080	0.000	100	2844421	50.0	55.8	
27 Methyl acetate	43	7.104	7.104	0.000	98	569606	100.0	103.6	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	80	1120732	50.0	53.1	
30 Methylene Chloride	84	7.270	7.270	0.000	90	807246	50.0	50.5	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	98	399692	500.0	525.3	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	96	1780578	50.0	53.1	
33 Acrylonitrile	53	7.495	7.495	0.000	98	1365306	500.0	554.8	
34 trans-1,2-Dichloroethene	96	7.519	7.507	0.012	98	796772	50.0	52.0	
35 Hexane	57	7.673	7.673	0.000	95	910889	50.0	57.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	2116744	100.0	114.0	
39 1,1-Dichloroethane	63	7.898	7.899	-0.001	96	1339012	50.0	54.9	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	100	981366	250.0	276.0	
45 cis-1,2-Dichloroethene	96	8.396	8.397	-0.001	81	912990	50.0	53.3	
44 2,2-Dichloropropane	77	8.396	8.397	-0.001	72	1233949	50.0	55.1	
48 Chlorobromomethane	128	8.622	8.622	0.000	90	423476	50.0	54.1	
50 Chloroform	83	8.634	8.634	0.000	93	1452311	50.0	53.5	
49 Tetrahydrofuran	42	8.634	8.634	0.000	86	231965	100.0	98.2	
51 1,1,1-Trichloroethane	97	8.823	8.824	-0.001	98	1353737	50.0	57.6	
52 Cyclohexane	56	8.871	8.859	0.012	90	1217208	50.0	57.9	
53 Isobutyl alcohol	43	8.871	8.871	0.000	97	518324	1250.0	1363.6	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	95	1046542	50.0	57.1	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	1176436	50.0	59.0	
57 Benzene	78	9.120	9.120	0.000	96	3099799	50.0	54.2	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	98	921987	50.0	52.5	
59 n-Heptane	43	9.155	9.156	-0.001	93	869351	50.0	55.8	
62 Trichloroethene	95	9.594	9.594	0.000	97	849572	50.0	55.7	
64 Methylcyclohexane	83	9.748	9.749	-0.001	89	1312616	50.0	60.5	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	94	727511	50.0	55.7	
66 1,4-Dioxane	88	9.855	9.855	0.000	90	66068	1000.0	1142.9	
67 Dibromomethane	93	9.926	9.926	0.000	95	412762	50.0	53.6	
68 Dichlorobromomethane	83	9.997	9.998	-0.001	99	1056225	50.0	56.5	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	94	332141	50.0	56.5	
72 cis-1,3-Dichloropropene	75	10.318	10.318	0.000	97	1138145	50.0	56.7	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	2133818	250.0	279.0	
74 Toluene	92	10.590	10.591	-0.001	98	2044667	50.0	54.1	
75 Ethyl methacrylate	69	10.661	10.662	-0.001	89	664468	50.0	58.4	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	95	981072	50.0	56.6	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	91	458229	50.0	53.2	
80 2-Hexanone	43	10.994	10.994	0.000	97	1528362	250.0	278.5	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	941065	50.0	55.7	
82 1,3-Dichloropropane	76	11.053	11.053	0.000	92	954015	50.0	53.5	
83 Chlorodibromomethane	129	11.266	11.266	0.000	89	725461	50.0	57.3	
84 Ethylene Dibromide	107	11.397	11.397	0.000	98	560234	50.0	54.6	
87 Chlorobenzene	112	11.741	11.741	0.000	98	2395379	50.0	53.5	
88 Ethylbenzene	91	11.752	11.753	-0.001	98	3974843	50.0	54.1	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	94	870774	50.0	54.6	
90 m-Xylene & p-Xylene	106	11.835	11.836	-0.001	98	1558088	50.0	55.4	
91 o-Xylene	106	12.179	12.180	-0.001	97	1549090	50.0	55.1	
92 Styrene	104	12.191	12.191	0.000	93	2586278	50.0	56.4	
95 Bromoform	173	12.452	12.452	0.000	44	386976	50.0	65.5	
94 Isopropylbenzene	105	12.452	12.452	0.000	96	4062555	50.0	55.7	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	96	622254	50.0	54.1	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	94	147168	50.0	51.6	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	4612232	50.0	54.7	
100 1,2,3-Trichloropropane	110	12.808	12.808	0.000	83	200374	50.0	53.0	
101 Bromobenzene	156	12.843	12.844	-0.001	89	1031301	50.0	54.8	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	94	3459675	50.0	55.7	
103 2-Chlorotoluene	126	12.962	12.962	0.000	97	987029	50.0	53.3	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	1034516	50.0	53.1	
106 tert-Butylbenzene	134	13.247	13.247	0.000	92	776194	50.0	55.7	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	97	3637204	50.0	54.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.436	13.437	-0.001	94	4199339	50.0	55.7	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	3772816	50.0	55.3	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	98	2075740	50.0	53.6	
113 1,4-Dichlorobenzene	146	13.745	13.733	0.012	96	2107300	50.0	52.7	
115 n-Butylbenzene	91	13.946	13.946	0.000	97	3208026	50.0	54.4	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	98	1895595	50.0	53.8	
117 1,2-Dibromo-3-Chloropropan	75	15.014	15.014	0.000	87	107989	50.0	47.8	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	1334336	50.0	53.3	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	98	560176	50.0	55.6	
121 Naphthalene	128	16.460	16.460	0.000	97	2464605	50.0	55.6	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	96	1170321	50.0	54.0	
S 126 1,3-Dichloropropene, Total	1				0			113.3	
S 123 Total BTEX	1				0			272.9	
S 124 Xylenes, Total	1				0			110.5	
S 125 1,2-Dichloroethene, Total	1				0			105.3	

Reagents:

8260 CORP mix_00123	Amount Added: 25.00	Units: uL	
GAS CORP mix_00274	Amount Added: 25.00	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180409-70509.b\\C4177.D

Injection Date: 09-Apr-2018 17:01:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: IC 6

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

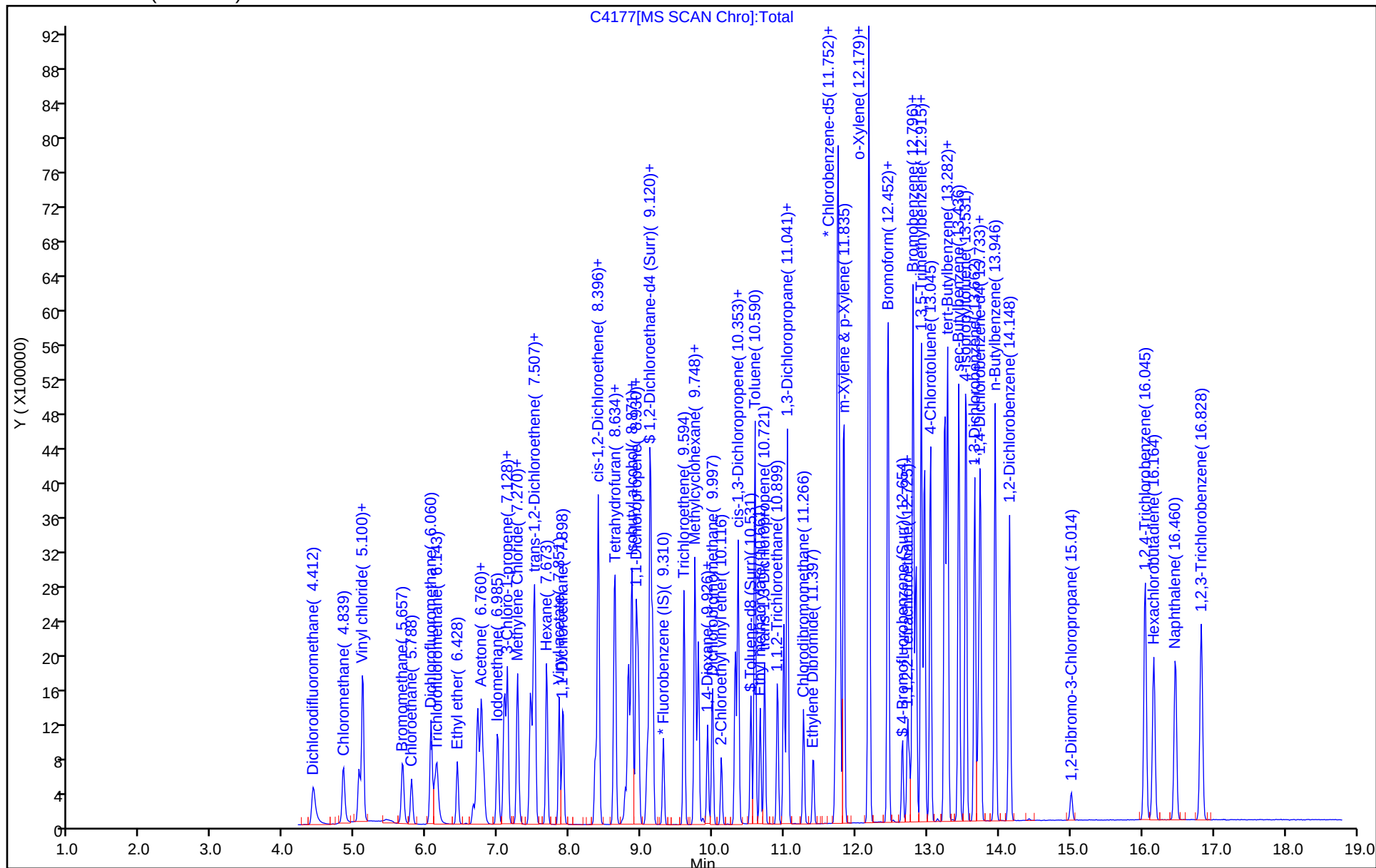
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4178.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 09-Apr-2018 17:27:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0070509-011
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:49:16 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 10-Apr-2018 12:52:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	184572	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	83	399410	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	95	415601	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	247119	25.0	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.073	0.000	90	114504	25.0	24.0	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	977291	25.0	24.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	336434	25.0	25.0	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	2600739	100.0	112.2	
12 Chloromethane	50	4.827	4.839	-0.012	100	2393591	100.0	94.2	
13 Vinyl chloride	62	5.053	5.053	0.000	98	2212705	100.0	105.9	
151 Butadiene	54	5.100	5.112	-0.012	96	2208977	100.0	104.9	
14 Bromomethane	94	5.657	5.657	0.000	92	1551610	100.0	104.4	
15 Chloroethane	64	5.788	5.788	0.000	100	1312815	100.0	104.4	
16 Dichlorofluoromethane	67	6.061	6.061	0.000	97	3248940	100.0	102.7	
17 Trichlorofluoromethane	101	6.132	6.144	-0.012	99	3283536	100.0	110.2	
18 Ethyl ether	59	6.428	6.428	0.000	92	1027681	100.0	108.3	
20 Acrolein	56	6.642	6.654	-0.012	99	467426	500.0	523.9	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	92	1722099	100.0	120.3	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	98	1567088	100.0	111.5	
23 Acetone	43	6.796	6.796	0.000	99	1627753	500.0	496.6	
25 Iodomethane	142	6.986	6.986	0.000	100	3192185	100.0	109.3	
26 Carbon disulfide	76	7.080	7.080	0.000	100	6333750	100.0	114.9	
27 Methyl acetate	43	7.092	7.104	-0.012	98	1235027	200.0	207.6	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	84	2484243	100.0	108.8	
30 Methylene Chloride	84	7.270	7.270	0.000	94	1727436	100.0	100.4	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	98	883018	1000.0	1073.1	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	95	3873537	100.0	106.8	
33 Acrylonitrile	53	7.495	7.495	0.000	98	2997693	1000.0	1126.2	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	99	1755251	100.0	106.0	
35 Hexane	57	7.673	7.673	0.000	95	2118394	100.0	124.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	4647405	200.0	231.3	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	96	2950528	100.0	111.9	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	100	2133296	500.0	554.6	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	72	2731185	100.0	112.8	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	81	1977882	100.0	106.7	
48 Chlorobromomethane	128	8.622	8.622	0.000	90	905426	100.0	107.0	
49 Tetrahydrofuran	42	8.634	8.634	0.000	45	514028	200.0	201.3	
50 Chloroform	83	8.634	8.634	0.000	93	3163771	100.0	107.8	
51 1,1,1-Trichloroethane	97	8.824	8.824	0.000	98	3008085	100.0	118.3	
52 Cyclohexane	56	8.859	8.859	0.000	91	2812897	100.0	123.8	
53 Isobutyl alcohol	43	8.871	8.871	0.000	92	1207078	2500.0	2936.0	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	95	2367553	100.0	119.4	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	2663489	100.0	123.6	
57 Benzene	78	9.120	9.120	0.000	96	6781169	100.0	109.6	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	98	1966235	100.0	103.6	
59 n-Heptane	43	9.156	9.156	0.000	93	2004999	100.0	119.0	
62 Trichloroethene	95	9.594	9.594	0.000	96	1885303	100.0	114.4	
64 Methylcyclohexane	83	9.749	9.749	0.000	89	3042979	100.0	129.7	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	95	1581455	100.0	111.9	
66 1,4-Dioxane	88	9.855	9.855	0.000	92	145953	2000.0	2363.2	
67 Dibromomethane	93	9.926	9.926	0.000	94	896521	100.0	107.7	
68 Dichlorobromomethane	83	9.998	9.998	0.000	99	2346402	100.0	116.1	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	93	746667	100.0	117.4	
72 cis-1,3-Dichloropropene	75	10.318	10.318	0.000	97	2528579	100.0	116.5	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	97	4667035	500.0	571.1	
74 Toluene	92	10.590	10.591	-0.001	98	4497263	100.0	111.3	
75 Ethyl methacrylate	69	10.662	10.662	0.000	89	1512946	100.0	124.5	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	94	2188605	100.0	118.2	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	91	999677	100.0	108.7	
80 2-Hexanone	43	10.994	10.994	0.000	97	3406700	500.0	581.0	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	2112293	100.0	117.1	
82 1,3-Dichloropropane	76	11.041	11.053	-0.012	91	2075460	100.0	108.9	
83 Chlorodibromomethane	129	11.266	11.266	0.000	89	1654482	100.0	122.4	
84 Ethylene Dibromide	107	11.397	11.397	0.000	98	1236125	100.0	112.8	
87 Chlorobenzene	112	11.741	11.741	0.000	92	5222954	100.0	109.2	
88 Ethylbenzene	91	11.753	11.753	0.000	98	8610538	100.0	109.7	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	95	1925842	100.0	113.1	
90 m-Xylene & p-Xylene	106	11.836	11.836	0.000	99	3446632	100.0	114.8	
91 o-Xylene	106	12.180	12.180	0.000	89	3433286	100.0	114.2	
92 Styrene	104	12.180	12.191	-0.011	88	5697100	100.0	116.2	
94 Isopropylbenzene	105	12.452	12.452	0.000	96	8955563	100.0	117.6	
95 Bromoform	173	12.452	12.452	0.000	44	891909	100.0	141.4	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	96	1365962	100.0	113.8	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	97	344118	100.0	114.9	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	10179342	100.0	115.7	
100 1,2,3-Trichloropropane	110	12.796	12.808	-0.012	82	432530	100.0	109.7	
101 Bromobenzene	156	12.844	12.844	0.000	87	2232382	100.0	113.6	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	94	7610054	100.0	117.4	
103 2-Chlorotoluene	126	12.962	12.962	0.000	97	2192860	100.0	113.4	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	2278971	100.0	112.1	
106 tert-Butylbenzene	134	13.247	13.247	0.000	92	1745873	100.0	120.1	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	97	7951336	100.0	114.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.437	13.437	0.000	94	9454184	100.0	120.3	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	8495694	100.0	119.4	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	98	4564535	100.0	112.9	M
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	95	4567162	100.0	109.5	
115 n-Butylbenzene	91	13.946	13.946	0.000	98	7219876	100.0	117.4	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	98	4117394	100.0	112.0	
117 1,2-Dibromo-3-Chloropropan	75	15.014	15.014	0.000	87	244493	100.0	104.3	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	2966996	100.0	113.6	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	98	1288220	100.0	122.6	
121 Naphthalene	128	16.460	16.460	0.000	97	5446035	100.0	117.7	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	96	2590331	100.0	114.6	
S 124 Xylenes, Total	1				0			229.0	
S 125 1,2-Dichloroethene, Total	1				0			212.7	
S 126 1,3-Dichloropropene, Total	1				0			234.7	
S 123 Total BTEX	1				0			559.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00123

Amount Added: 50.00

Units: uL

GAS CORP mix_00274

Amount Added: 50.00

Units: uL

C_8260_IS_00110

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00126

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180409-70509.b\\C4178.D

Injection Date: 09-Apr-2018 17:27:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: IC 7

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

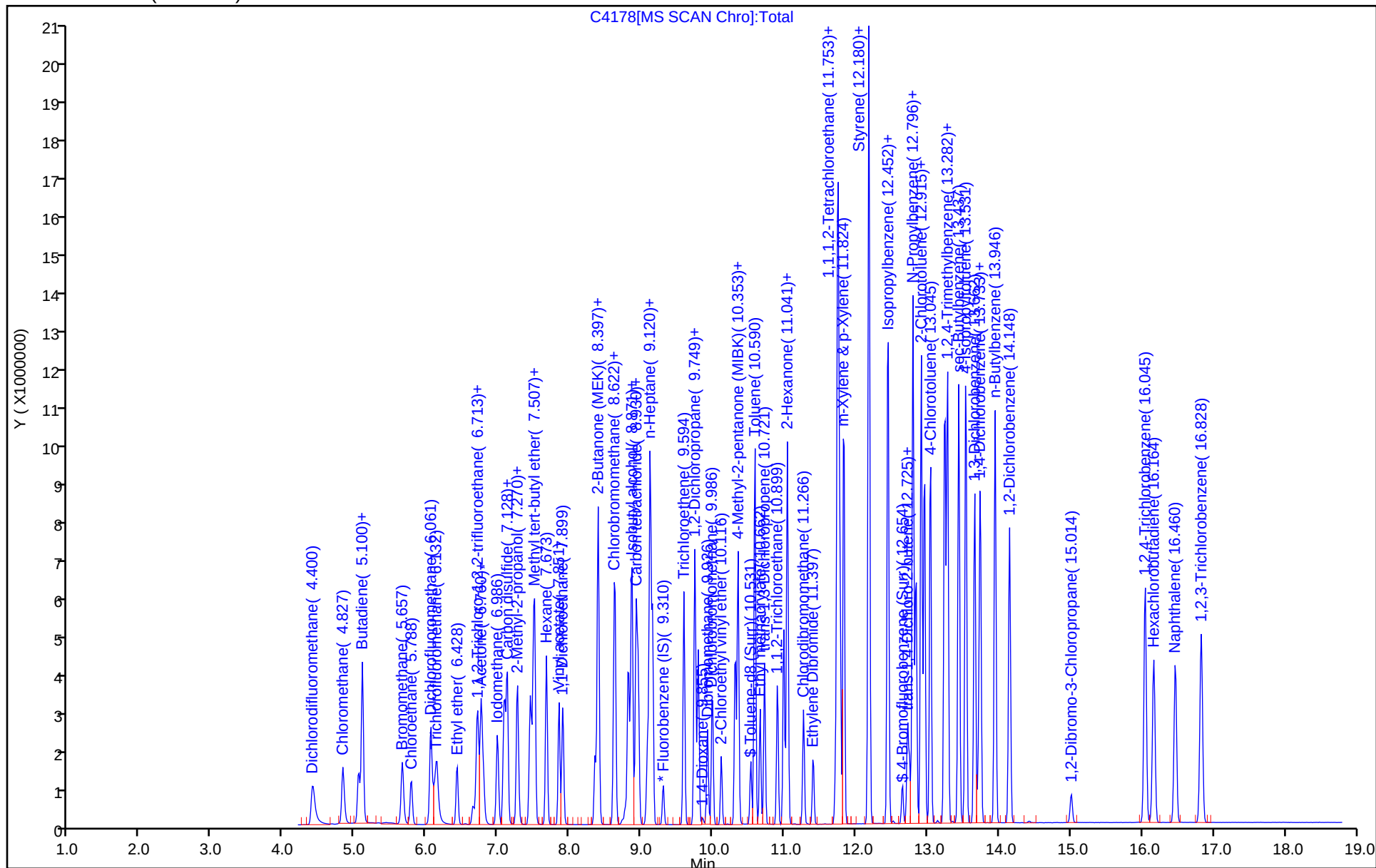
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

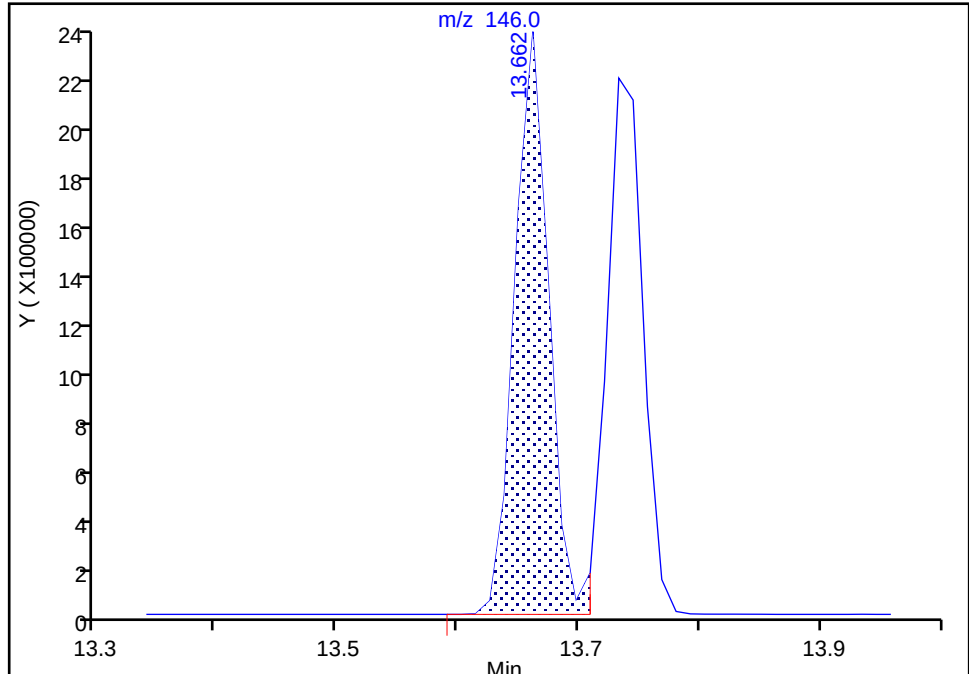
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4178.D
Injection Date: 09-Apr-2018 17:27:30 Instrument ID: HP5973C
Lims ID: IC 7
Client ID:
Operator ID: RR ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

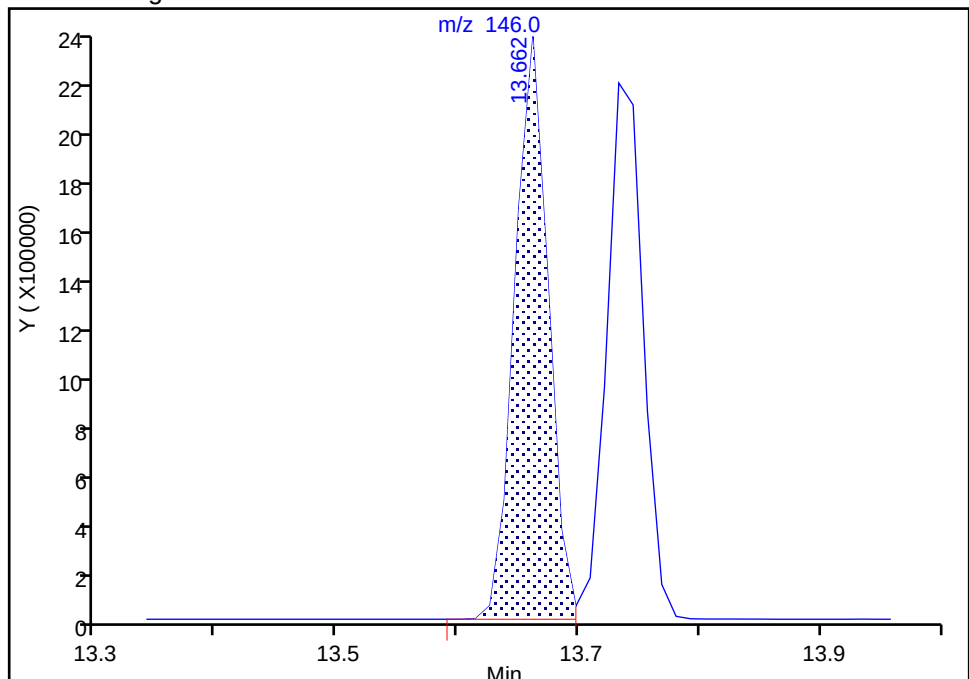
RT: 13.66
Area: 4683802
Amount: 115.4577
Amount Units: ug/L

Processing Integration Results



RT: 13.66
Area: 4564535
Amount: 112.9328
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 10-Apr-2018 12:52:36
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410900/2 Calibration Date: 04/25/2018 20:24
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4923.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.138	2.649	0.1000	21.1	25.0	-15.6	50.0
Chloromethane	Ave	3.443	2.228	0.1000	16.2	25.0	-35.3*	20.0
Vinyl chloride	Ave	2.831	1.977	0.1000	17.5	25.0	-30.2*	20.0
Butadiene	Ave	2.853	1.890		16.6	25.0	-33.7*	20.0
Bromomethane	Ave	2.012	1.901	0.1000	23.6	25.0	-5.5	50.0
Chloroethane	Ave	1.704	1.562	0.1000	22.9	25.0	-8.3	50.0
Dichlorofluoromethane	Ave	4.286	3.785		22.1	25.0	-11.7	20.0
Trichlorofluoromethane	Ave	4.036	3.695	0.1000	22.9	25.0	-8.4	20.0
Ethyl ether	Ave	1.286	1.200		23.3	25.0	-6.7	20.0
Acrolein	Ave	0.1209	0.1779		184	125	47.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.938	2.147	0.1000	27.7	25.0	10.8	20.0
1,1-Dichloroethene	Ave	1.903	1.896	0.1000	24.9	25.0	-0.4	20.0
Acetone	Ave	0.4440	0.3440	0.1000	96.9	125	-22.5	50.0
Iodomethane	Ave	3.957	3.902		24.7	25.0	-1.4	20.0
Carbon disulfide	Ave	7.466	7.813	0.1000	26.2	25.0	4.7	20.0
Methyl acetate	Ave	0.8057	0.6940	0.1000	43.1	50.0	-13.9	50.0
Allyl chloride	Ave	3.094	2.855		23.1	25.0	-7.7	20.0
Methylene Chloride	Lin1		2.208	0.1000	23.4	25.0	-6.6	20.0
2-Methyl-2-propanol	Ave	0.1115	0.1059		238	250	-4.9	50.0
Methyl tert-butyl ether	Ave	4.913	4.523	0.1000	23.0	25.0	-7.9	20.0
Acrylonitrile	Ave	0.3605	0.3426		238	250	-5.0	20.0
trans-1,2-Dichloroethene	Ave	2.243	2.218	0.1000	24.7	25.0	-1.1	20.0
Hexane	Ave	2.308	2.541		27.5	25.0	10.1	20.0
Vinyl acetate	Ave	2.721	2.545		46.8	50.0	-6.5	20.0
1,1-Dichloroethane	Ave	3.572	3.524	0.2000	24.7	25.0	-1.3	20.0
2-Butanone (MEK)	Ave	0.5210	0.4460	0.1000	107	125	-14.4	20.0
2,2-Dichloropropane	Ave	3.280	3.459		26.4	25.0	5.5	20.0
cis-1,2-Dichloroethene	Ave	2.511	2.469	0.1000	24.6	25.0	-1.7	20.0
Chlorobromomethane	Ave	1.146	1.117		24.4	25.0	-2.5	20.0
Chloroform	Ave	3.974	3.849	0.2000	24.2	25.0	-3.1	20.0
Tetrahydrofuran	Ave	0.3459	0.2885		41.7	50.0	-16.6	20.0
1,1,1-Trichloroethane	Ave	3.445	3.572	0.1000	25.9	25.0	3.7	20.0
Cyclohexane	Ave	3.078	3.217	0.1000	26.1	25.0	4.5	20.0
Isobutyl alcohol	Ave	0.0557	0.0554		622	625	-0.6	50.0
1,1-Dichloropropene	Ave	2.686	2.843		26.5	25.0	5.8	20.0
Carbon tetrachloride	Ave	2.919	3.124	0.1000	26.8	25.0	7.0	20.0
Benzene	Ave	8.380	8.461	0.5000	25.2	25.0	1.0	20.0
1,2-Dichloroethane	Ave	2.571	2.268	0.1000	22.0	25.0	-11.8	20.0
n-Heptane	Ave	2.281	2.399		26.3	25.0	5.2	20.0
Trichloroethene	Ave	2.233	2.280	0.2000	25.5	25.0	2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410900/2 Calibration Date: 04/25/2018 20:24
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4923.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	3.178	3.672	0.1000	28.9	25.0	15.6	20.0
1,2-Dichloropropane	Ave	1.914	1.949	0.1000	25.5	25.0	1.8	20.0
1,4-Dioxane	Ave	0.0039	0.0046		589	500	17.8	50.0
Dibromomethane	Ave	1.127	1.046	0.1000	23.2	25.0	-7.2	20.0
Bromodichloromethane	Ave	2.738	2.744	0.2000	25.0	25.0	0.2	20.0
2-Chloroethyl vinyl ether	Ave	0.8612	0.8149		23.7	25.0	-5.4	20.0
cis-1,3-Dichloropropene	Ave	2.939	2.988	0.2000	25.4	25.0	1.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5115	0.4409	0.1000	108	125	-13.8	20.0
Toluene	Ave	2.529	2.491	0.4000	24.6	25.0	-1.5	20.0
Ethyl methacrylate	Ave	0.7604	0.7133		23.4	25.0	-6.2	20.0
trans-1,3-Dichloropropene	Ave	1.159	1.096	0.1000	23.7	25.0	-5.4	20.0
1,1,2-Trichloroethane	Ave	0.5758	0.5176	0.1000	22.5	25.0	-10.1	20.0
2-Hexanone	Ave	0.3670	0.3136	0.1000	107	125	-14.5	20.0
1,3-Dichloropropane	Ave	1.193	1.088		22.8	25.0	-8.8	20.0
Tetrachloroethene	Ave	1.130	1.171	0.2000	25.9	25.0	3.7	20.0
Dibromochloromethane	Ave	0.8464	0.8405	0.1000	24.8	25.0	-0.7	20.0
1,2-Dibromoethane	Ave	0.6859	0.6239		22.7	25.0	-9.0	20.0
Chlorobenzene	Ave	2.995	2.886	0.5000	24.1	25.0	-3.6	20.0
Ethylbenzene	Ave	4.914	4.774	0.1000	24.3	25.0	-2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	1.066	1.049		24.6	25.0	-1.5	20.0
m,p-Xylene	Ave	1.880	1.936	0.1000	25.8	25.0	3.0	20.0
o-Xylene	Ave	1.881	1.893	0.3000	25.1	25.0	0.6	20.0
Styrene	Ave	3.068	3.064	0.3000	25.0	25.0	-0.1	20.0
Isopropylbenzene	Ave	4.581	4.630	0.1000	25.3	25.0	1.1	20.0
Bromoform	Ave	0.3948	0.4712	0.1000	29.8	25.0	19.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7220	0.6729	0.3000	23.3	25.0	-6.8	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1526		21.7	25.0	-13.3	50.0
1,2,3-Trichloropropane	Ave	0.2373	0.2121		22.3	25.0	-10.6	20.0
N-Propylbenzene	Ave	5.290	5.295		25.0	25.0	0.0	20.0
Bromobenzene	Ave	1.182	1.161		24.6	25.0	-1.8	20.0
1,3,5-Trimethylbenzene	Ave	3.898	3.955		25.4	25.0	1.5	20.0
2-Chlorotoluene	Ave	1.163	1.145		24.6	25.0	-1.6	20.0
4-Chlorotoluene	Ave	1.223	1.179		24.1	25.0	-3.5	20.0
tert-Butylbenzene	Ave	0.8746	0.8912		25.5	25.0	1.9	20.0
1,2,4-Trimethylbenzene	Ave	4.182	4.113		24.6	25.0	-1.6	20.0
sec-Butylbenzene	Ave	4.728	4.932		26.1	25.0	4.3	20.0
4-Isopropyltoluene	Ave	4.280	4.435		25.9	25.0	3.6	20.0
1,3-Dichlorobenzene	Ave	2.431	2.389	0.6000	24.6	25.0	-1.7	20.0
1,4-Dichlorobenzene	Ave	2.508	2.420	0.5000	24.1	25.0	-3.5	20.0
n-Butylbenzene	Ave	3.700	3.708		25.0	25.0	0.2	20.0
1,2-Dichlorobenzene	Ave	2.211	2.142	0.4000	24.2	25.0	-3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410900/2 Calibration Date: 04/25/2018 20:24
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4923.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1074	0.0500	18.7	25.0	-25.2	50.0
1,2,4-Trichlorobenzene	Ave	1.571	1.531	0.2000	24.4	25.0	-2.5	20.0
Hexachlorobutadiene	Ave	0.6319	0.6766		26.8	25.0	7.1	20.0
Naphthalene	Ave	2.782	2.690		24.2	25.0	-3.3	20.0
1,2,3-Trichlorobenzene	Ave	1.360	1.305		24.0	25.0	-4.0	20.0
Dibromofluoromethane (Surr)	Ave	1.380	1.426		25.8	25.0	3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.6465	0.6548		25.3	25.0	1.3	20.0
Toluene-d8 (Surr)	Ave	2.520	2.505		24.8	25.0	-0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8417	0.8198		24.4	25.0	-2.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4923.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 25-Apr-2018 20:24:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0070975-002
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 09:59:20 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 09:19:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.298	9.298	0.000	99	139251	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.705	11.705	0.000	84	317325	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	93	340977	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.764	8.764	0.000	93	198537	25.0	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.061	9.061	0.000	97	91186	25.0	25.3	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	794933	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	260156	25.0	24.4	
10 Dichlorodifluoromethane	85	4.400	4.400	0.000	99	368901	25.0	21.1	
12 Chloromethane	50	4.827	4.827	0.000	100	310215	25.0	16.2	
13 Vinyl chloride	62	5.041	5.041	0.000	98	275248	25.0	17.5	
151 Butadiene	54	5.100	5.100	0.000	97	263220	25.0	16.6	
14 Bromomethane	94	5.657	5.657	0.000	92	264763	25.0	23.6	
15 Chloroethane	64	5.776	5.776	0.000	100	217572	25.0	22.9	
16 Dichlorofluoromethane	67	6.049	6.049	0.000	97	527069	25.0	22.1	
17 Trichlorofluoromethane	101	6.132	6.132	0.000	99	514575	25.0	22.9	
18 Ethyl ether	59	6.416	6.416	0.000	91	167062	25.0	23.3	
20 Acrolein	56	6.642	6.642	0.000	99	123879	125.0	184.0	
21 1,1,2-Trichloro-1,2,2-trif	101	6.701	6.701	0.000	93	298952	25.0	27.7	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	97	264055	25.0	24.9	
23 Acetone	43	6.796	6.796	0.000	100	239531	125.0	96.9	
25 Iodomethane	142	6.986	6.986	0.000	99	543363	25.0	24.7	
26 Carbon disulfide	76	7.080	7.080	0.000	100	1088015	25.0	26.2	
27 Methyl acetate	43	7.092	7.092	0.000	97	193289	50.0	43.1	
28 3-Chloro-1-propene	41	7.116	7.116	0.000	79	397573	25.0	23.1	
30 Methylene Chloride	84	7.258	7.258	0.000	89	307436	25.0	23.4	
31 2-Methyl-2-propanol	59	7.270	7.270	0.000	98	147527	250.0	237.6	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	95	629798	25.0	23.0	
33 Acrylonitrile	53	7.484	7.484	0.000	98	477097	250.0	237.6	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	97	308832	25.0	24.7	
35 Hexane	57	7.673	7.673	0.000	93	353884	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	708845	50.0	46.8	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	97	490714	25.0	24.7	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	99	310519	125.0	107.0	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	77	481737	25.0	26.4	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	83	343785	25.0	24.6	
48 Chlorobromomethane	128	8.610	8.610	0.000	91	155564	25.0	24.4	
49 Tetrahydrofuran	42	8.634	8.634	0.000	88	80338	50.0	41.7	
50 Chloroform	83	8.634	8.634	0.000	94	535974	25.0	24.2	
51 1,1,1-Trichloroethane	97	8.812	8.812	0.000	98	497356	25.0	25.9	
52 Cyclohexane	56	8.859	8.859	0.000	90	447953	25.0	26.1	
53 Isobutyl alcohol	43	8.871	8.871	0.000	83	192784	625.0	621.5	
54 1,1-Dichloropropene	75	8.918	8.918	0.000	95	395879	25.0	26.5	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	435045	25.0	26.8	
57 Benzene	78	9.120	9.120	0.000	96	1178191	25.0	25.2	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	98	315786	25.0	22.0	
59 n-Heptane	43	9.156	9.156	0.000	89	334093	25.0	26.3	
62 Trichloroethene	95	9.594	9.594	0.000	95	317454	25.0	25.5	
64 Methylcyclohexane	83	9.749	9.749	0.000	87	511335	25.0	28.9	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	94	271332	25.0	25.5	
66 1,4-Dioxane	88	9.855	9.855	0.000	90	28905	500.0	589.1	
67 Dibromomethane	93	9.926	9.926	0.000	93	145652	25.0	23.2	
68 Dichlorobromomethane	83	9.986	9.986	0.000	99	382040	25.0	25.0	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	93	113470	25.0	23.7	
72 cis-1,3-Dichloropropene	75	10.306	10.306	0.000	97	416136	25.0	25.4	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	96	699476	125.0	107.7	
74 Toluene	92	10.591	10.591	0.000	98	790381	25.0	24.6	
75 Ethyl methacrylate	69	10.662	10.662	0.000	88	226337	25.0	23.4	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	93	347878	25.0	23.7	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	91	164252	25.0	22.5	
80 2-Hexanone	43	10.994	10.994	0.000	96	497612	125.0	106.8	
82 1,3-Dichloropropane	76	11.041	11.041	0.000	90	345352	25.0	22.8	
81 Tetrachloroethene	166	11.041	11.041	0.000	98	371513	25.0	25.9	
83 Chlorodibromomethane	129	11.266	11.266	0.000	89	266719	25.0	24.8	
84 Ethylene Dibromide	107	11.397	11.397	0.000	99	197988	25.0	22.7	
87 Chlorobenzene	112	11.741	11.741	0.000	98	915927	25.0	24.1	
88 Ethylbenzene	91	11.753	11.753	0.000	98	1515019	25.0	24.3	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	94	333029	25.0	24.6	
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	97	614466	25.0	25.8	
91 o-Xylene	106	12.180	12.180	0.000	97	600536	25.0	25.1	
92 Styrene	104	12.180	12.180	0.000	91	972154	25.0	25.0	
94 Isopropylbenzene	105	12.440	12.440	0.000	96	1578712	25.0	25.3	
95 Bromoform	173	12.452	12.452	0.000	43	149524	25.0	29.8	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	95	229452	25.0	23.3	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	91	52016	25.0	21.7	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	1805443	25.0	25.0	
100 1,2,3-Trichloropropane	110	12.796	12.796	0.000	78	72308	25.0	22.3	
101 Bromobenzene	156	12.844	12.844	0.000	85	395923	25.0	24.6	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	94	1348587	25.0	25.4	
103 2-Chlorotoluene	126	12.962	12.962	0.000	97	390253	25.0	24.6	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	402096	25.0	24.1	
106 tert-Butylbenzene	134	13.247	13.247	0.000	91	303882	25.0	25.5	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	95	1402498	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.437	13.437	0.000	94	1681812	25.0	26.1	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	1512158	25.0	25.9	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	97	814722	25.0	24.6	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	96	825284	25.0	24.1	
115 n-Butylbenzene	91	13.946	13.946	0.000	97	1264199	25.0	25.0	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	99	730273	25.0	24.2	
117 1,2-Dibromo-3-Chloropropan	75	15.002	15.002	0.000	90	36630	25.0	18.7	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	522099	25.0	24.4	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	97	230715	25.0	26.8	
121 Naphthalene	128	16.460	16.460	0.000	97	917064	25.0	24.2	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	96	444989	25.0	24.0	

Reagents:

8260 CORP mix_00124	Amount Added: 12.50	Units: uL	
GAS CORP mix_00278	Amount Added: 12.50	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4923.D

Injection Date: 25-Apr-2018 20:24:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

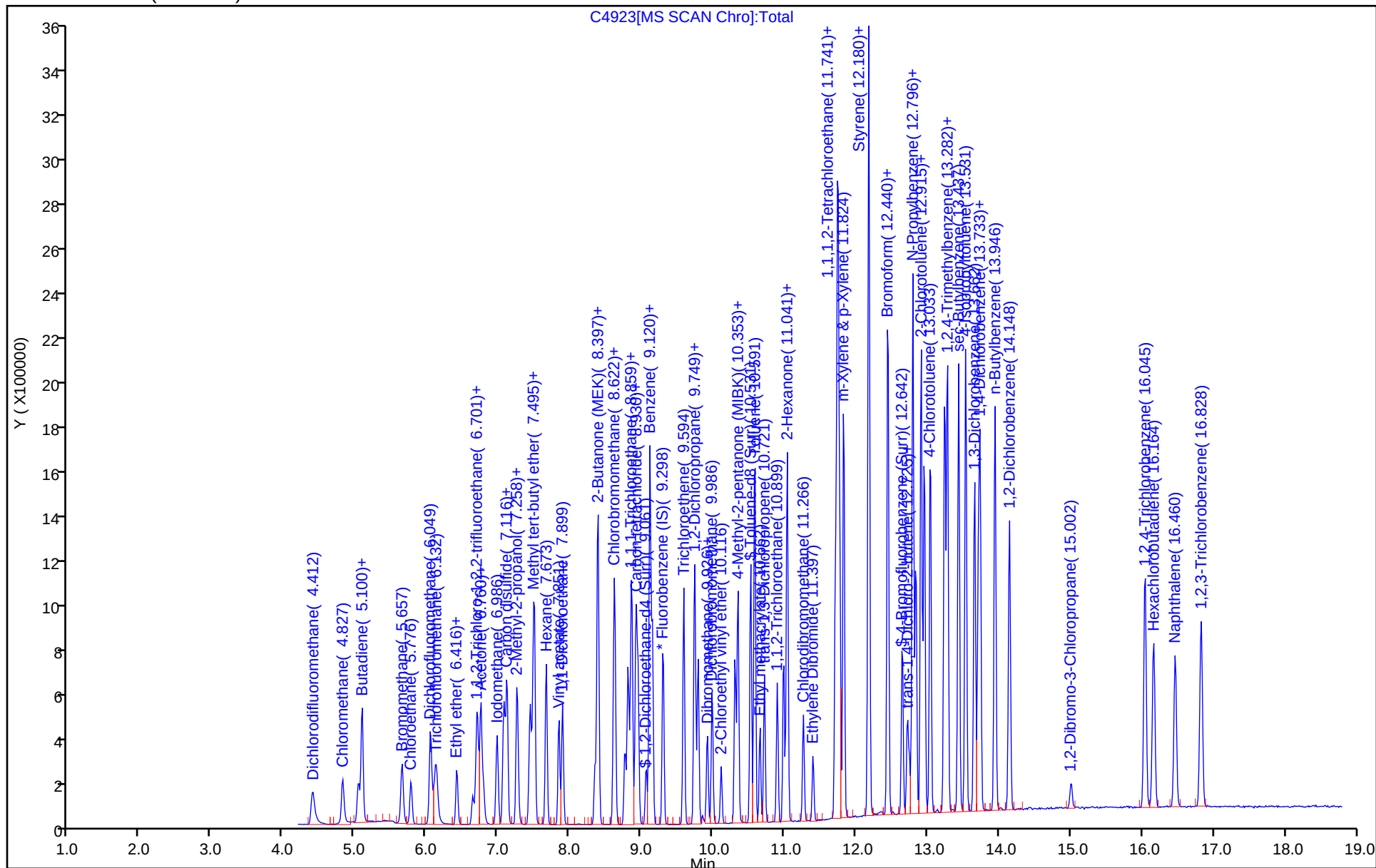
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410957/3 Calibration Date: 04/26/2018 09:17
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4948.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.138	2.624	0.1000	20.9	25.0	-16.4	50.0
Chloromethane	Ave	3.443	2.142	0.1000	15.6	25.0	-37.8*	20.0
Vinyl chloride	Ave	2.831	1.964	0.1000	17.3	25.0	-30.6*	20.0
Butadiene	Ave	2.853	1.803		15.8	25.0	-36.8*	20.0
Bromomethane	Ave	2.012	1.882	0.1000	23.4	25.0	-6.5	50.0
Chloroethane	Ave	1.704	1.650	0.1000	24.2	25.0	-3.2	50.0
Dichlorofluoromethane	Ave	4.286	3.956		23.1	25.0	-7.7	20.0
Trichlorofluoromethane	Ave	4.036	3.778	0.1000	23.4	25.0	-6.4	20.0
Ethyl ether	Ave	1.286	1.175		22.8	25.0	-8.6	20.0
Acrolein	Ave	0.1209	0.1550		160	125	28.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.938	2.115	0.1000	27.3	25.0	9.1	20.0
1,1-Dichloroethene	Ave	1.903	1.949	0.1000	25.6	25.0	2.4	20.0
Acetone	Ave	0.4440	0.3663	0.1000	103	125	-17.5	50.0
Iodomethane	Ave	3.957	3.861		24.4	25.0	-2.4	20.0
Carbon disulfide	Ave	7.466	7.477	0.1000	25.0	25.0	0.1	20.0
Methyl acetate	Ave	0.8057	0.6748	0.1000	41.9	50.0	-16.3	50.0
Allyl chloride	Ave	3.094	2.846		23.0	25.0	-8.0	20.0
Methylene Chloride	Lin1		2.125	0.1000	22.5	25.0	-10.2	20.0
2-Methyl-2-propanol	Ave	0.1115	0.1011		227	250	-9.3	50.0
Methyl tert-butyl ether	Ave	4.913	4.474	0.1000	22.8	25.0	-8.9	20.0
Acrylonitrile	Ave	0.3605	0.3363		233	250	-6.7	20.0
trans-1,2-Dichloroethene	Ave	2.243	2.163	0.1000	24.1	25.0	-3.6	20.0
Hexane	Ave	2.308	2.465		26.7	25.0	6.8	20.0
Vinyl acetate	Ave	2.721	2.429		44.6	50.0	-10.7	20.0
1,1-Dichloroethane	Ave	3.572	3.499	0.2000	24.5	25.0	-2.0	20.0
2-Butanone (MEK)	Ave	0.5210	0.4451	0.1000	107	125	-14.6	20.0
2,2-Dichloropropane	Ave	3.280	3.381		25.8	25.0	3.1	20.0
cis-1,2-Dichloroethene	Ave	2.511	2.412	0.1000	24.0	25.0	-3.9	20.0
Chlorobromomethane	Ave	1.146	1.087		23.7	25.0	-5.2	20.0
Chloroform	Ave	3.974	3.765	0.2000	23.7	25.0	-5.3	20.0
Tetrahydrofuran	Ave	0.3459	0.2779		40.2	50.0	-19.7	20.0
1,1,1-Trichloroethane	Ave	3.445	3.544	0.1000	25.7	25.0	2.9	20.0
Cyclohexane	Ave	3.078	3.247	0.1000	26.4	25.0	5.5	20.0
Isobutyl alcohol	Ave	0.0557	0.0520		583	625	-6.7	50.0
1,1-Dichloropropene	Ave	2.686	2.828		26.3	25.0	5.3	20.0
Carbon tetrachloride	Ave	2.919	3.138	0.1000	26.9	25.0	7.5	20.0
Benzene	Ave	8.380	8.379	0.5000	25.0	25.0	-0.0	20.0
1,2-Dichloroethane	Ave	2.571	2.211	0.1000	21.5	25.0	-14.0	20.0
n-Heptane	Ave	2.281	2.280		25.0	25.0	-0.0	20.0
Trichloroethene	Ave	2.233	2.264	0.2000	25.3	25.0	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410957/3 Calibration Date: 04/26/2018 09:17
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4948.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	3.178	3.640	0.1000	28.6	25.0	14.5	20.0
1,2-Dichloropropane	Ave	1.914	1.913	0.1000	25.0	25.0	-0.0	20.0
1,4-Dioxane	Ave	0.0039	0.0037		483	500	-3.3	50.0
Dibromomethane	Ave	1.127	0.998	0.1000	22.1	25.0	-11.5	20.0
Bromodichloromethane	Ave	2.738	2.707	0.2000	24.7	25.0	-1.1	20.0
2-Chloroethyl vinyl ether	Ave	0.8612	0.8101		23.5	25.0	-5.9	20.0
cis-1,3-Dichloropropene	Ave	2.939	2.924	0.2000	24.9	25.0	-0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5115	0.4394	0.1000	107	125	-14.1	20.0
Toluene	Ave	2.529	2.459	0.4000	24.3	25.0	-2.7	20.0
Ethyl methacrylate	Ave	0.7604	0.7122		23.4	25.0	-6.3	20.0
trans-1,3-Dichloropropene	Ave	1.159	1.102	0.1000	23.8	25.0	-4.9	20.0
1,1,2-Trichloroethane	Ave	0.5758	0.5234	0.1000	22.7	25.0	-9.1	20.0
2-Hexanone	Ave	0.3670	0.3190	0.1000	109	125	-13.1	20.0
1,3-Dichloropropane	Ave	1.193	1.074		22.5	25.0	-9.9	20.0
Tetrachloroethene	Ave	1.130	1.197	0.2000	26.5	25.0	6.0	20.0
Dibromochloromethane	Ave	0.8464	0.8500	0.1000	25.1	25.0	0.4	20.0
1,2-Dibromoethane	Ave	0.6859	0.6294		22.9	25.0	-8.2	20.0
Chlorobenzene	Ave	2.995	2.936	0.5000	24.5	25.0	-2.0	20.0
Ethylbenzene	Ave	4.914	4.828	0.1000	24.6	25.0	-1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	1.066	1.048		24.6	25.0	-1.7	20.0
m,p-Xylene	Ave	1.880	1.938	0.1000	25.8	25.0	3.1	20.0
o-Xylene	Ave	1.881	1.927	0.3000	25.6	25.0	2.4	20.0
Styrene	Ave	3.068	3.081	0.3000	25.1	25.0	0.5	20.0
Isopropylbenzene	Ave	4.581	4.576	0.1000	25.0	25.0	-0.1	20.0
Bromoform	Ave	0.3948	0.4712	0.1000	29.8	25.0	19.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7220	0.6511	0.3000	22.5	25.0	-9.8	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1551		22.0	25.0	-11.9	50.0
1,2,3-Trichloropropane	Ave	0.2373	0.2083		21.9	25.0	-12.2	20.0
N-Propylbenzene	Ave	5.290	5.253		24.8	25.0	-0.7	20.0
Bromobenzene	Ave	1.182	1.138		24.1	25.0	-3.7	20.0
1,3,5-Trimethylbenzene	Ave	3.898	3.886		24.9	25.0	-0.3	20.0
2-Chlorotoluene	Ave	1.163	1.125		24.2	25.0	-3.3	20.0
4-Chlorotoluene	Ave	1.223	1.169		23.9	25.0	-4.4	20.0
tert-Butylbenzene	Ave	0.8746	0.8894		25.4	25.0	1.7	20.0
1,2,4-Trimethylbenzene	Ave	4.182	4.024		24.1	25.0	-3.8	20.0
sec-Butylbenzene	Ave	4.728	4.813		25.4	25.0	1.8	20.0
4-Isopropyltoluene	Ave	4.280	4.326		25.3	25.0	1.1	20.0
1,3-Dichlorobenzene	Ave	2.431	2.349	0.6000	24.2	25.0	-3.4	20.0
1,4-Dichlorobenzene	Ave	2.508	2.355	0.5000	23.5	25.0	-6.1	20.0
n-Butylbenzene	Ave	3.700	3.635		24.6	25.0	-1.8	20.0
1,2-Dichlorobenzene	Ave	2.211	2.110	0.4000	23.9	25.0	-4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410957/3 Calibration Date: 04/26/2018 09:17
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4948.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1207	0.0500	21.1	25.0	-15.8	50.0
1,2,4-Trichlorobenzene	Ave	1.571	1.503	0.2000	23.9	25.0	-4.3	20.0
Hexachlorobutadiene	Ave	0.6319	0.6571		26.0	25.0	4.0	20.0
Naphthalene	Ave	2.782	2.675		24.0	25.0	-3.8	20.0
1,2,3-Trichlorobenzene	Ave	1.360	1.280		23.5	25.0	-5.9	20.0
Dibromofluoromethane (Surr)	Ave	1.380	1.421		25.7	25.0	2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.6465	0.6384		24.7	25.0	-1.3	20.0
Toluene-d8 (Surr)	Ave	2.520	2.539		25.2	25.0	0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8417	0.8425		25.0	25.0	0.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4948.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 26-Apr-2018 09:17:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0070985-003
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 09:38:50 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 09:38:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	140045	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	83	313030	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	345564	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	198992	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.073	0.000	96	89400	25.0	24.7	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	794665	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	263738	25.0	25.0	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	367524	25.0	20.9	
12 Chloromethane	50	4.839	4.839	0.000	99	299957	25.0	15.6	
13 Vinyl chloride	62	5.053	5.053	0.000	97	275096	25.0	17.3	
151 Butadiene	54	5.112	5.112	0.000	97	252502	25.0	15.8	
14 Bromomethane	94	5.657	5.657	0.000	91	263573	25.0	23.4	
15 Chloroethane	64	5.788	5.788	0.000	100	231086	25.0	24.2	
16 Dichlorofluoromethane	67	6.061	6.061	0.000	98	554034	25.0	23.1	
17 Trichlorofluoromethane	101	6.132	6.132	0.000	99	529153	25.0	23.4	
18 Ethyl ether	59	6.428	6.428	0.000	92	164547	25.0	22.8	
20 Acrolein	56	6.653	6.653	0.000	99	108537	125.0	160.3	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	92	296254	25.0	27.3	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	97	272953	25.0	25.6	
23 Acetone	43	6.796	6.796	0.000	99	256465	125.0	103.1	
25 Iodomethane	142	6.985	6.985	0.000	99	540662	25.0	24.4	
26 Carbon disulfide	76	7.080	7.080	0.000	99	1047088	25.0	25.0	
27 Methyl acetate	43	7.092	7.092	0.000	97	188994	50.0	41.9	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	83	398590	25.0	23.0	
30 Methylene Chloride	84	7.270	7.270	0.000	89	297562	25.0	22.5	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	100	141522	250.0	226.7	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	95	626617	25.0	22.8	
33 Acrylonitrile	53	7.495	7.495	0.000	98	470915	250.0	233.2	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	97	302871	25.0	24.1	
35 Hexane	57	7.673	7.673	0.000	93	345246	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	680317	50.0	44.6	
39 1,1-Dichloroethane	63	7.899	7.899	0.000	96	490066	25.0	24.5	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	100	311633	125.0	106.8	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	77	473513	25.0	25.8	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	82	337841	25.0	24.0	
48 Chlorobromomethane	128	8.622	8.622	0.000	88	152208	25.0	23.7	
49 Tetrahydrofuran	42	8.634	8.634	0.000	86	77834	50.0	40.2	
50 Chloroform	83	8.634	8.634	0.000	93	527293	25.0	23.7	
51 1,1,1-Trichloroethane	97	8.812	8.812	0.000	97	496315	25.0	25.7	
52 Cyclohexane	56	8.859	8.859	0.000	90	454774	25.0	26.4	
53 Isobutyl alcohol	43	8.871	8.871	0.000	92	181871	625.0	583.0	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	96	395977	25.0	26.3	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	439485	25.0	26.9	
57 Benzene	78	9.120	9.120	0.000	95	1173387	25.0	25.0	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	97	309583	25.0	21.5	
59 n-Heptane	43	9.156	9.156	0.000	93	319352	25.0	25.0	
62 Trichloroethene	95	9.594	9.594	0.000	95	317070	25.0	25.3	
64 Methylcyclohexane	83	9.749	9.749	0.000	87	509734	25.0	28.6	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	95	267856	25.0	25.0	
66 1,4-Dioxane	88	9.855	9.855	0.000	87	23395	500.0	483.3	M
67 Dibromomethane	93	9.926	9.926	0.000	92	139697	25.0	22.1	
68 Dichlorobromomethane	83	9.986	9.986	0.000	99	379155	25.0	24.7	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	92	113454	25.0	23.5	
72 cis-1,3-Dichloropropene	75	10.306	10.306	0.000	97	409439	25.0	24.9	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	96	687652	125.0	107.4	
74 Toluene	92	10.590	10.590	0.000	98	769846	25.0	24.3	
75 Ethyl methacrylate	69	10.662	10.662	0.000	88	222927	25.0	23.4	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	93	344969	25.0	23.8	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	89	163824	25.0	22.7	
80 2-Hexanone	43	10.994	10.994	0.000	96	499296	125.0	108.7	
82 1,3-Dichloropropane	76	11.041	11.041	0.000	91	336281	25.0	22.5	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	374669	25.0	26.5	
83 Chlorodibromomethane	129	11.266	11.266	0.000	90	266088	25.0	25.1	
84 Ethylene Dibromide	107	11.397	11.397	0.000	99	197033	25.0	22.9	
87 Chlorobenzene	112	11.741	11.741	0.000	98	918901	25.0	24.5	
88 Ethylbenzene	91	11.753	11.753	0.000	98	1511274	25.0	24.6	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	93	328061	25.0	24.6	
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	97	606545	25.0	25.8	
91 o-Xylene	106	12.180	12.180	0.000	97	603186	25.0	25.6	
92 Styrene	104	12.180	12.180	0.000	92	964556	25.0	25.1	
94 Isopropylbenzene	105	12.440	12.440	0.000	96	1581444	25.0	25.0	
95 Bromoform	173	12.452	12.452	0.000	43	147510	25.0	29.8	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	95	224994	25.0	22.5	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	91	53594	25.0	22.0	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	70	1342940	25.0	24.9	a
99 N-Propylbenzene	91	12.796	12.796	0.000	99	1815229	25.0	24.8	
100 1,2,3-Trichloropropane	110	12.796	12.796	0.000	79	71980	25.0	21.9	
101 Bromobenzene	156	12.844	12.844	0.000	85	393277	25.0	24.1	
103 2-Chlorotoluene	126	12.962	12.962	0.000	98	388623	25.0	24.2	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	403956	25.0	23.9	
106 tert-Butylbenzene	134	13.235	13.235	0.000	92	307345	25.0	25.4	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	95	1390494	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.437	13.437	0.000	94	1663276	25.0	25.4	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	1494802	25.0	25.3	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	97	811612	25.0	24.2	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	96	813792	25.0	23.5	
115 n-Butylbenzene	91	13.946	13.946	0.000	97	1256252	25.0	24.6	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	99	729253	25.0	23.9	
117 1,2-Dibromo-3-Chloropropan	75	15.002	15.002	0.000	85	41692	25.0	21.1	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	94	519342	25.0	23.9	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	98	227065	25.0	26.0	
121 Naphthalene	128	16.460	16.460	0.000	97	924485	25.0	24.0	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	97	442212	25.0	23.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00124	Amount Added: 12.50	Units: uL	
GAS CORP mix_00278	Amount Added: 12.50	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180426-70985.b\\C4948.D

Injection Date: 26-Apr-2018 09:17:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

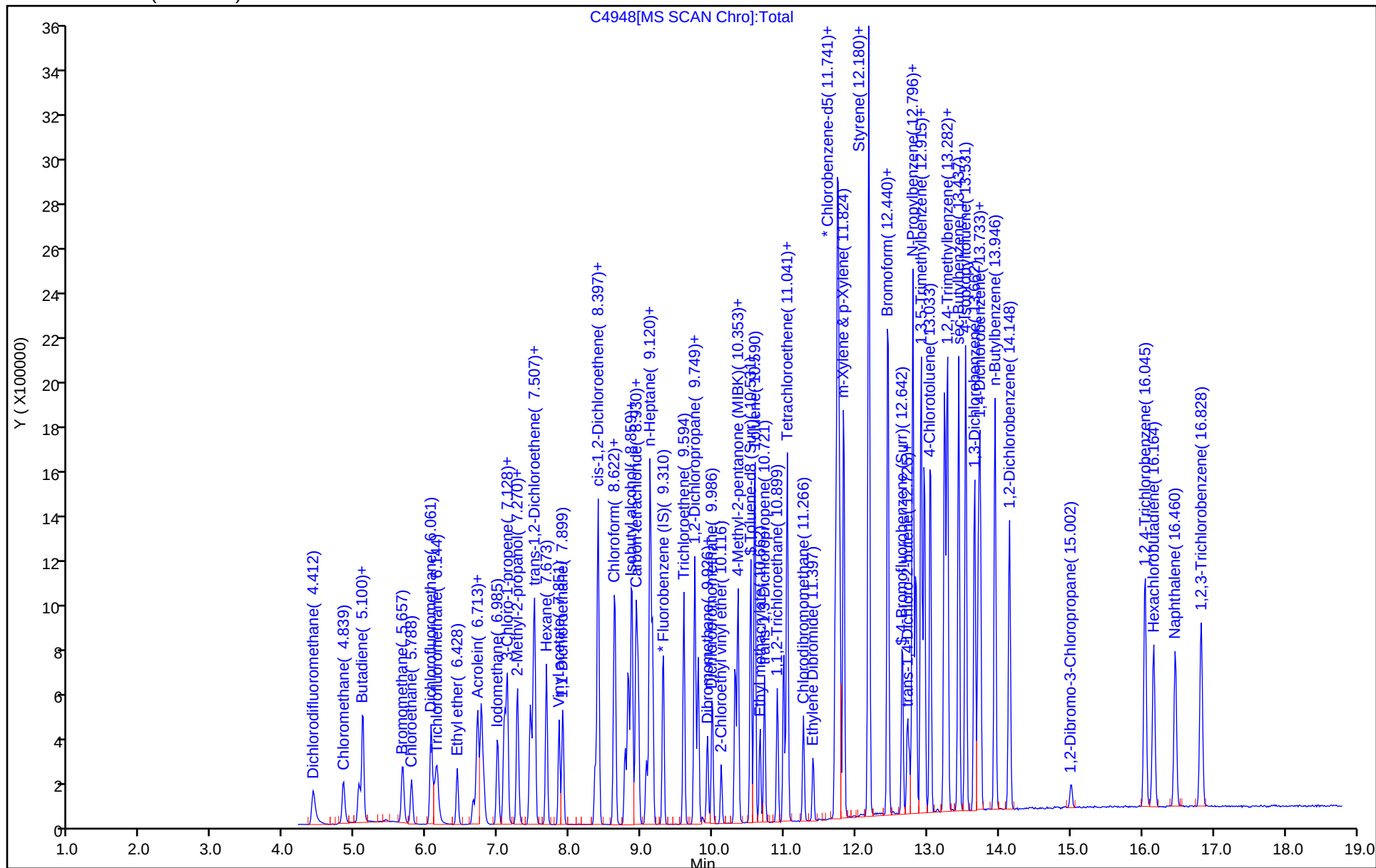
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4948.D

Injection Date: 26-Apr-2018 09:17:30

Instrument ID: HP5973C

Lims ID: CCVIS

Client ID:

Operator ID: RR

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

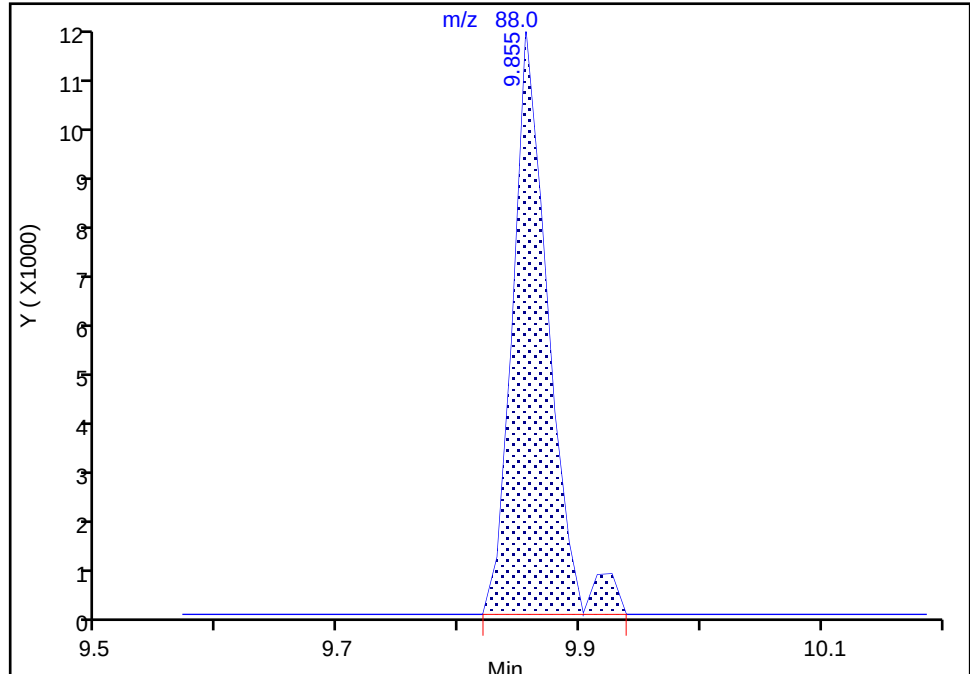
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

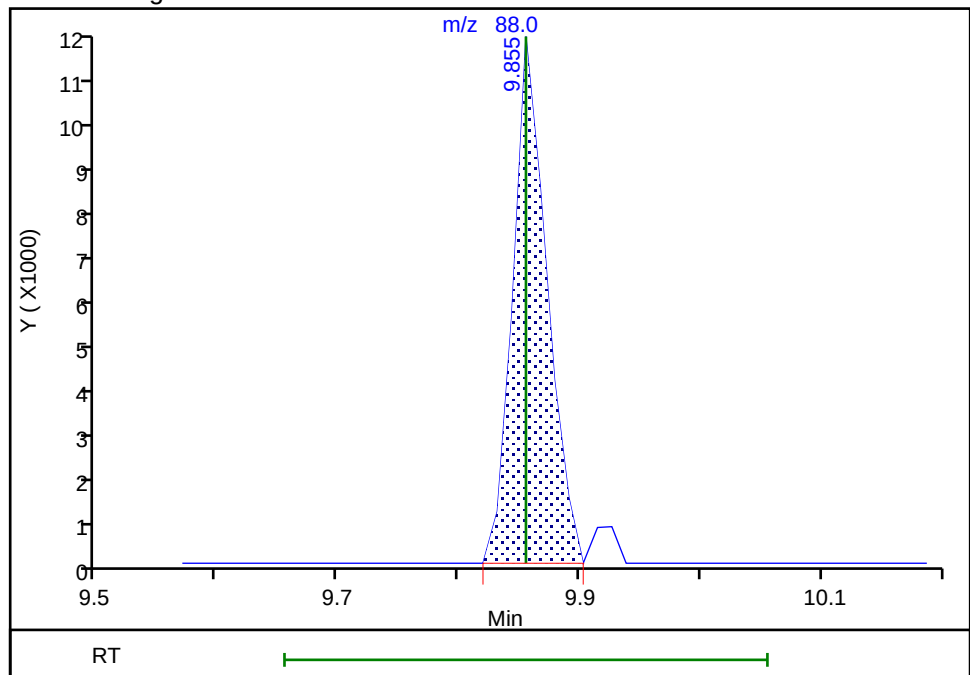
RT: 9.86
Area: 24560
Amount: 507.3956
Amount Units: ug/L

Processing Integration Results



RT: 9.86
Area: 23395
Amount: 483.3274
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 26-Apr-2018 09:38:35

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4948.D

Injection Date: 26-Apr-2018 09:17:30

Instrument ID: HP5973C

Lims ID: CCVIS

Client ID:

Operator ID: RR

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

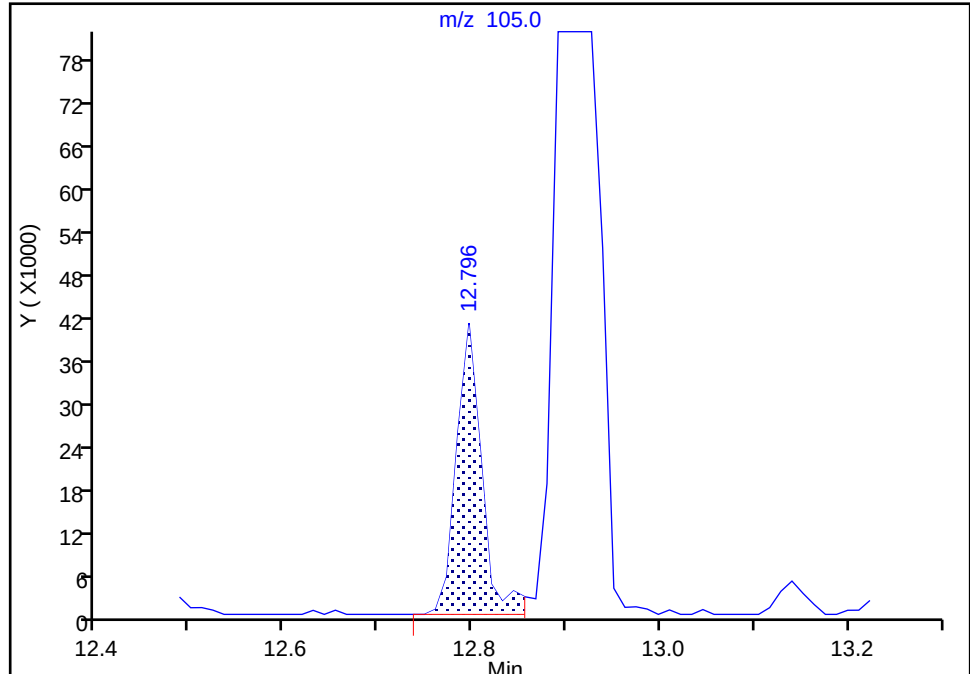
MS SCAN

102 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

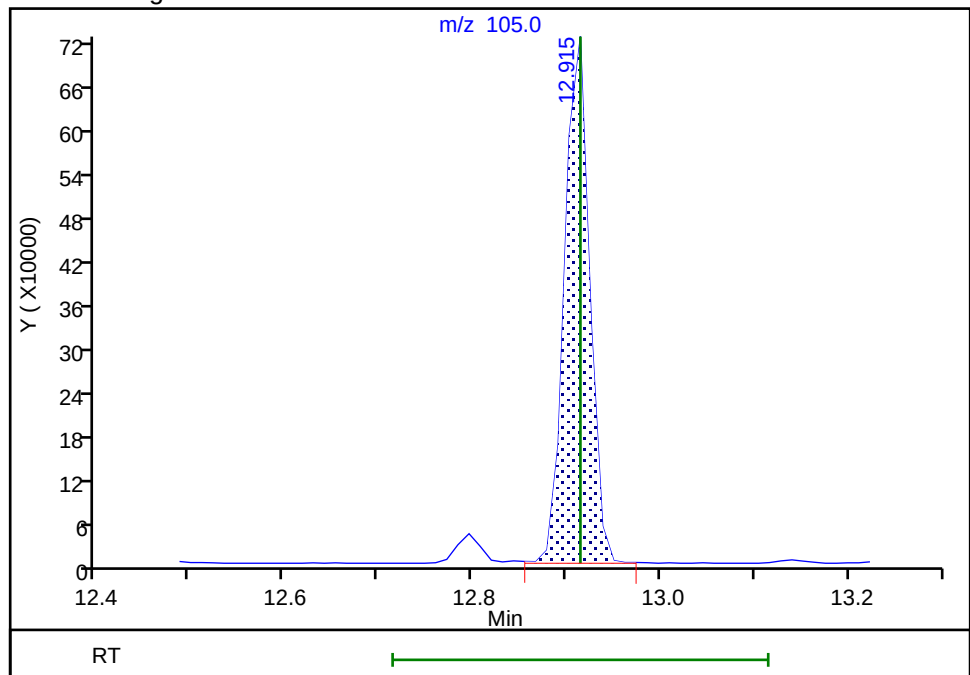
RT: 12.80
Area: 76588
Amount: 1.421527
Amount Units: ug/L

Processing Integration Results



RT: 12.91
Area: 1342940
Amount: 24.925900
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 26-Apr-2018 09:38:43

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-411190/2 Calibration Date: 04/26/2018 20:32
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4974.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.138	2.636	0.1000	21.0	25.0	-16.0	50.0
Chloromethane	Ave	3.443	2.028	0.1000	14.7	25.0	-41.1*	20.0
Vinyl chloride	Ave	2.831	2.012	0.1000	17.8	25.0	-28.9*	20.0
Butadiene	Ave	2.853	1.917		16.8	25.0	-32.8*	20.0
Bromomethane	Ave	2.012	1.936	0.1000	24.1	25.0	-3.8	50.0
Chloroethane	Ave	1.704	1.665	0.1000	24.4	25.0	-2.3	50.0
Dichlorofluoromethane	Ave	4.286	4.086		23.8	25.0	-4.7	20.0
Trichlorofluoromethane	Ave	4.036	4.084	0.1000	25.3	25.0	1.2	20.0
Ethyl ether	Ave	1.286	1.283		25.0	25.0	-0.2	20.0
Acrolein	Ave	0.1209	0.1866		193	125	54.4*	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.938	2.314	0.1000	29.8	25.0	19.4	20.0
1,1-Dichloroethene	Ave	1.903	2.129	0.1000	28.0	25.0	11.9	20.0
Acetone	Ave	0.4440	0.3724	0.1000	105	125	-16.1	50.0
Iodomethane	Ave	3.957	4.236		26.8	25.0	7.0	20.0
Carbon disulfide	Ave	7.466	8.357	0.1000	28.0	25.0	11.9	20.0
Methyl acetate	Ave	0.8057	0.7324	0.1000	45.4	50.0	-9.1	50.0
Allyl chloride	Ave	3.094	3.036		24.5	25.0	-1.9	20.0
Methylene Chloride	Lin1		2.275	0.1000	24.1	25.0	-3.7	20.0
2-Methyl-2-propanol	Ave	0.1115	0.1322		297	250	18.6	50.0
Methyl tert-butyl ether	Ave	4.913	4.852	0.1000	24.7	25.0	-1.2	20.0
Acrylonitrile	Ave	0.3605	0.3619		251	250	0.4	20.0
trans-1,2-Dichloroethene	Ave	2.243	2.333	0.1000	26.0	25.0	4.0	20.0
Hexane	Ave	2.308	2.650		28.7	25.0	14.8	20.0
Vinyl acetate	Ave	2.721	2.684		49.3	50.0	-1.4	20.0
1,1-Dichloroethane	Ave	3.572	3.740	0.2000	26.2	25.0	4.7	20.0
2-Butanone (MEK)	Ave	0.5210	0.4925	0.1000	118	125	-5.5	20.0
2,2-Dichloropropane	Ave	3.280	3.694		28.2	25.0	12.6	20.0
cis-1,2-Dichloroethene	Ave	2.511	2.611	0.1000	26.0	25.0	4.0	20.0
Chlorobromomethane	Ave	1.146	1.182		25.8	25.0	3.1	20.0
Chloroform	Ave	3.974	4.063	0.2000	25.6	25.0	2.2	20.0
Tetrahydrofuran	Ave	0.3459	0.3073		44.4	50.0	-11.2	20.0
1,1,1-Trichloroethane	Ave	3.445	3.790	0.1000	27.5	25.0	10.0	20.0
Cyclohexane	Ave	3.078	3.462	0.1000	28.1	25.0	12.5	20.0
Isobutyl alcohol	Ave	0.0557	0.0635		712	625	14.0	50.0
1,1-Dichloropropene	Ave	2.686	2.994		27.9	25.0	11.5	20.0
Carbon tetrachloride	Ave	2.919	3.361	0.1000	28.8	25.0	15.1	20.0
Benzene	Ave	8.380	8.970	0.5000	26.8	25.0	7.0	20.0
1,2-Dichloroethane	Ave	2.571	2.455	0.1000	23.9	25.0	-4.5	20.0
n-Heptane	Ave	2.281	2.407		26.4	25.0	5.5	20.0
Trichloroethene	Ave	2.233	2.453	0.2000	27.5	25.0	9.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-411190/2 Calibration Date: 04/26/2018 20:32
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4974.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	3.178	3.815	0.1000	30.0	25.0	20.1*	20.0
1,2-Dichloropropane	Ave	1.914	2.059	0.1000	26.9	25.0	7.6	20.0
1,4-Dioxane	Ave	0.0039	0.0058		746	500	49.3	50.0
Dibromomethane	Ave	1.127	1.118	0.1000	24.8	25.0	-0.8	20.0
Bromodichloromethane	Ave	2.738	2.910	0.2000	26.6	25.0	6.3	20.0
2-Chloroethyl vinyl ether	Ave	0.8612	0.8590		24.9	25.0	-0.3	20.0
cis-1,3-Dichloropropene	Ave	2.939	3.173	0.2000	27.0	25.0	7.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5115	0.4847	0.1000	118	125	-5.2	20.0
Toluene	Ave	2.529	2.686	0.4000	26.6	25.0	6.2	20.0
Ethyl methacrylate	Ave	0.7604	0.7828		25.7	25.0	2.9	20.0
trans-1,3-Dichloropropene	Ave	1.159	1.206	0.1000	26.0	25.0	4.1	20.0
1,1,2-Trichloroethane	Ave	0.5758	0.5747	0.1000	25.0	25.0	-0.2	20.0
2-Hexanone	Ave	0.3670	0.3477	0.1000	118	125	-5.3	20.0
1,3-Dichloropropane	Ave	1.193	1.170		24.5	25.0	-1.9	20.0
Tetrachloroethene	Ave	1.130	1.254	0.2000	27.8	25.0	11.0	20.0
Dibromochloromethane	Ave	0.8464	0.9160	0.1000	27.1	25.0	8.2	20.0
1,2-Dibromoethane	Ave	0.6859	0.6978		25.4	25.0	1.7	20.0
Chlorobenzene	Ave	2.995	3.113	0.5000	26.0	25.0	3.9	20.0
Ethylbenzene	Ave	4.914	5.182	0.1000	26.4	25.0	5.5	20.0
1,1,1,2-Tetrachloroethane	Ave	1.066	1.138		26.7	25.0	6.7	20.0
m,p-Xylene	Ave	1.880	2.103	0.1000	28.0	25.0	11.9	20.0
o-Xylene	Ave	1.881	2.044	0.3000	27.2	25.0	8.6	20.0
Styrene	Ave	3.068	3.354	0.3000	27.3	25.0	9.3	20.0
Isopropylbenzene	Ave	4.581	4.809	0.1000	26.2	25.0	5.0	20.0
Bromoform	Ave	0.3948	0.5257	0.1000	33.3	25.0	33.2	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7220	0.6920	0.3000	24.0	25.0	-4.2	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1589		22.5	25.0	-9.9	50.0
1,2,3-Trichloropropane	Ave	0.2373	0.2160		22.8	25.0	-9.0	20.0
N-Propylbenzene	Ave	5.290	5.382		25.4	25.0	1.7	20.0
Bromobenzene	Ave	1.182	1.190		25.2	25.0	0.7	20.0
1,3,5-Trimethylbenzene	Ave	3.898	4.052		26.0	25.0	3.9	20.0
2-Chlorotoluene	Ave	1.163	1.185		25.5	25.0	1.9	20.0
4-Chlorotoluene	Ave	1.223	1.235		25.3	25.0	1.0	20.0
tert-Butylbenzene	Ave	0.8746	0.9190		26.3	25.0	5.1	20.0
1,2,4-Trimethylbenzene	Ave	4.182	4.290		25.6	25.0	2.6	20.0
sec-Butylbenzene	Ave	4.728	5.021		26.5	25.0	6.2	20.0
4-Isopropyltoluene	Ave	4.280	4.532		26.5	25.0	5.9	20.0
1,3-Dichlorobenzene	Ave	2.431	2.466	0.6000	25.4	25.0	1.4	20.0
1,4-Dichlorobenzene	Ave	2.508	2.492	0.5000	24.8	25.0	-0.6	20.0
n-Butylbenzene	Ave	3.700	3.753		25.4	25.0	1.4	20.0
1,2-Dichlorobenzene	Ave	2.211	2.209	0.4000	25.0	25.0	-0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-411190/2 Calibration Date: 04/26/2018 20:32
 Instrument ID: HP5973C Calib Start Date: 04/09/2018 14:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/09/2018 17:27
 Lab File ID: C4974.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1268	0.0500	22.1	25.0	-11.4	50.0
1,2,4-Trichlorobenzene	Ave	1.571	1.577	0.2000	25.1	25.0	0.4	20.0
Hexachlorobutadiene	Ave	0.6319	0.6997		27.7	25.0	10.7	20.0
Naphthalene	Ave	2.782	2.909		26.1	25.0	4.5	20.0
1,2,3-Trichlorobenzene	Ave	1.360	1.338		24.6	25.0	-1.6	20.0
Dibromofluoromethane (Surr)	Ave	1.380	1.465		26.5	25.0	6.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.6465	0.6629		25.6	25.0	2.5	20.0
Toluene-d8 (Surr)	Ave	2.520	2.625		26.0	25.0	4.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8417	0.8610		25.6	25.0	2.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4974.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 26-Apr-2018 20:32:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0071016-002
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Apr-2018 08:24:21 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: nowakk

Date: 26-Apr-2018 21:03:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	132880	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	83	298384	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	336448	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	194641	25.0	26.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.072	0.000	97	88089	25.0	25.6	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	783174	25.0	26.0	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	256899	25.0	25.6	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	350269	25.0	21.0	
12 Chloromethane	50	4.839	4.839	0.000	99	269444	25.0	14.7	
13 Vinyl chloride	62	5.052	5.052	0.000	98	267304	25.0	17.8	
151 Butadiene	54	5.112	5.112	0.000	96	254681	25.0	16.8	
14 Bromomethane	94	5.657	5.657	0.000	91	257243	25.0	24.1	
15 Chloroethane	64	5.788	5.788	0.000	100	221279	25.0	24.4	
16 Dichlorofluoromethane	67	6.060	6.060	0.000	98	542980	25.0	23.8	
17 Trichlorofluoromethane	101	6.143	6.143	0.000	98	542652	25.0	25.3	
18 Ethyl ether	59	6.428	6.428	0.000	89	170535	25.0	25.0	
20 Acrolein	56	6.641	6.641	0.000	99	123956	125.0	193.0	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	92	307489	25.0	29.8	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	96	282875	25.0	28.0	
23 Acetone	43	6.796	6.796	0.000	99	247396	125.0	104.8	
25 Iodomethane	142	6.985	6.985	0.000	99	562848	25.0	26.8	
26 Carbon disulfide	76	7.080	7.080	0.000	100	1110519	25.0	28.0	
27 Methyl acetate	43	7.104	7.104	0.000	97	194638	50.0	45.4	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	84	403436	25.0	24.5	
30 Methylene Chloride	84	7.270	7.270	0.000	91	302273	25.0	24.1	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	98	175682	250.0	296.5	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	95	644778	25.0	24.7	
33 Acrylonitrile	53	7.495	7.495	0.000	98	480861	250.0	250.9	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	97	310032	25.0	26.0	
35 Hexane	57	7.673	7.673	0.000	94	352153	25.0	28.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.851	7.851	0.000	97	713262	50.0	49.3	
39 1,1-Dichloroethane	63	7.898	7.898	0.000	97	497023	25.0	26.2	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	99	327219	125.0	118.2	
44 2,2-Dichloropropane	77	8.396	8.396	0.000	77	490904	25.0	28.2	
45 cis-1,2-Dichloroethene	96	8.396	8.396	0.000	82	346964	25.0	26.0	
48 Chlorobromomethane	128	8.622	8.622	0.000	89	157017	25.0	25.8	
49 Tetrahydrofuran	42	8.634	8.634	0.000	86	81675	50.0	44.4	
50 Chloroform	83	8.634	8.634	0.000	93	539917	25.0	25.6	
51 1,1,1-Trichloroethane	97	8.812	8.812	0.000	98	503644	25.0	27.5	
52 Cyclohexane	56	8.859	8.859	0.000	90	460046	25.0	28.1	
53 Isobutyl alcohol	43	8.871	8.871	0.000	83	210830	625.0	712.3	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	95	397804	25.0	27.9	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	446621	25.0	28.8	
57 Benzene	78	9.120	9.120	0.000	95	1191963	25.0	26.8	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	98	326184	25.0	23.9	
59 n-Heptane	43	9.155	9.155	0.000	90	319892	25.0	26.4	
62 Trichloroethene	95	9.594	9.594	0.000	96	325932	25.0	27.5	
64 Methylcyclohexane	83	9.748	9.748	0.000	87	506986	25.0	30.0	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	95	273565	25.0	26.9	
66 1,4-Dioxane	88	9.855	9.855	0.000	93	34441	500.0	746.5	
67 Dibromomethane	93	9.926	9.926	0.000	94	148618	25.0	24.8	
68 Dichlorobromomethane	83	9.986	9.986	0.000	99	386645	25.0	26.6	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	93	114142	25.0	24.9	
72 cis-1,3-Dichloropropene	75	10.306	10.306	0.000	98	421600	25.0	27.0	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	96	723181	125.0	118.5	
74 Toluene	92	10.590	10.590	0.000	99	801520	25.0	26.6	
75 Ethyl methacrylate	69	10.661	10.661	0.000	88	233570	25.0	25.7	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	93	359776	25.0	26.0	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	91	171484	25.0	25.0	
80 2-Hexanone	43	10.994	10.994	0.000	97	518712	125.0	118.4	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	374164	25.0	27.8	
82 1,3-Dichloropropane	76	11.041	11.041	0.000	90	349239	25.0	24.5	
83 Chlorodibromomethane	129	11.266	11.266	0.000	90	273330	25.0	27.1	
84 Ethylene Dibromide	107	11.397	11.397	0.000	97	208200	25.0	25.4	
87 Chlorobenzene	112	11.741	11.741	0.000	93	928916	25.0	26.0	
88 Ethylbenzene	91	11.752	11.752	0.000	97	1546117	25.0	26.4	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	93	339479	25.0	26.7	
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	97	627431	25.0	28.0	
91 o-Xylene	106	12.179	12.179	0.000	89	609759	25.0	27.2	
92 Styrene	104	12.179	12.179	0.000	88	1000697	25.0	27.3	
94 Isopropylbenzene	105	12.440	12.440	0.000	96	1617863	25.0	26.2	
95 Bromoform	173	12.452	12.452	0.000	43	156869	25.0	33.3	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	95	232823	25.0	24.0	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	90	53448	25.0	22.5	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	1810849	25.0	25.4	
100 1,2,3-Trichloropropane	110	12.796	12.796	0.000	81	72680	25.0	22.8	
101 Bromobenzene	156	12.843	12.843	0.000	87	400505	25.0	25.2	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	94	1363162	25.0	26.0	
103 2-Chlorotoluene	126	12.962	12.962	0.000	98	398688	25.0	25.5	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	415517	25.0	25.3	
106 tert-Butylbenzene	134	13.247	13.247	0.000	92	309188	25.0	26.3	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	95	1443240	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.436	13.436	0.000	94	1689334	25.0	26.5	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	98	1524858	25.0	26.5	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	97	829787	25.0	25.4	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	95	838502	25.0	24.8	
115 n-Butylbenzene	91	13.946	13.946	0.000	97	1262559	25.0	25.4	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	99	743299	25.0	25.0	
117 1,2-Dibromo-3-Chloropropan	75	15.002	15.002	0.000	88	42649	25.0	22.1	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	530539	25.0	25.1	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	98	235426	25.0	27.7	
121 Naphthalene	128	16.460	16.460	0.000	96	978655	25.0	26.1	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	97	450249	25.0	24.6	

Reagents:

8260 CORP mix_00124	Amount Added: 12.50	Units: uL	
GAS CORP mix_00278	Amount Added: 12.50	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4974.D

Injection Date: 26-Apr-2018 20:32:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

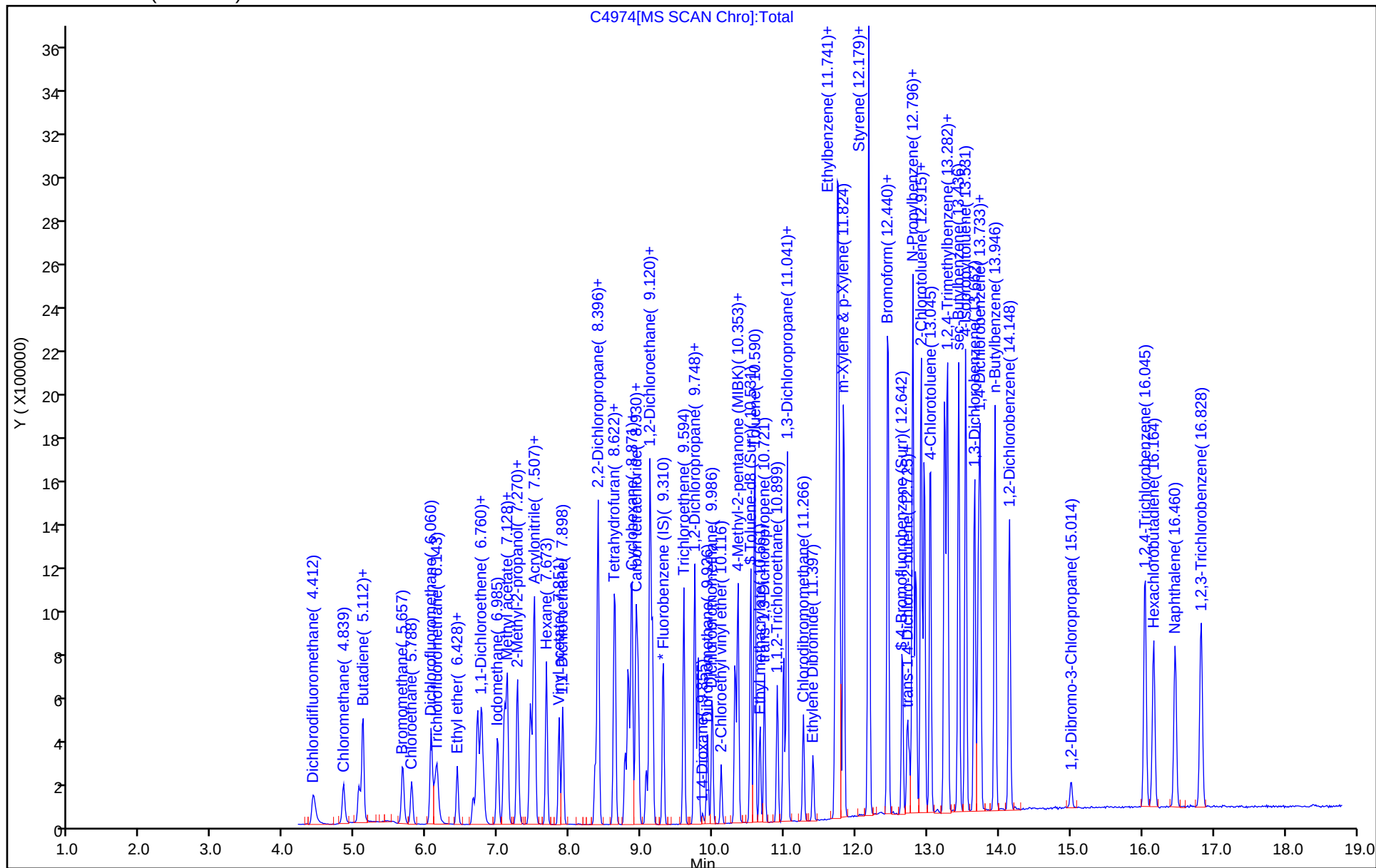
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4169.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 09-Apr-2018 13:37:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0070509-002
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Apr-2018 16:48:25 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: reiler

Date: 10-Apr-2018 15:57:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	9.384	9.384	0.000	0	31747	NR	NR	a

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

BFB_WRK_00069

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

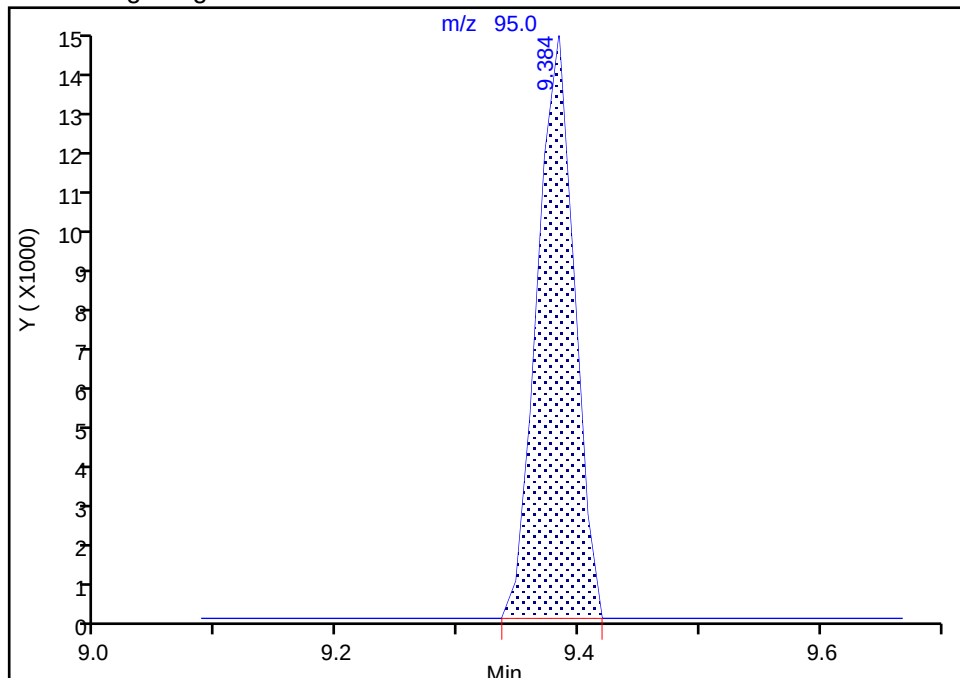
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4169.D
Injection Date: 09-Apr-2018 13:37:30 Instrument ID: HP5973C
Lims ID: BFB
Client ID:
Operator ID: RR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

\$ 61 BFB, CAS: 460-00-4

Signal: 1

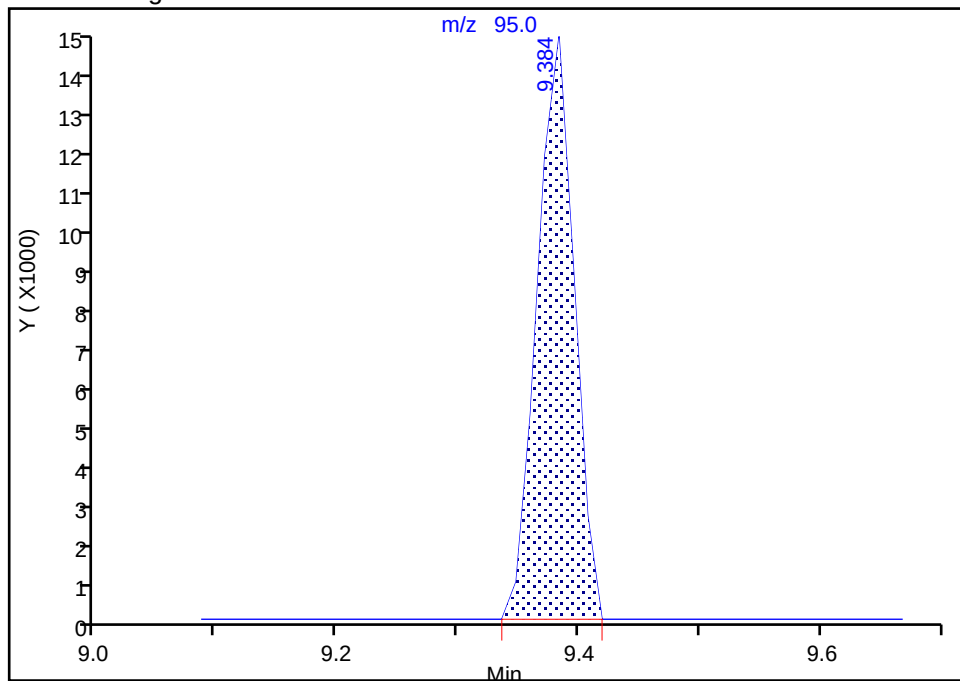
RT: 9.38
Area: 31747
Amount: 0
Amount Units: ug/L

Processing Integration Results



RT: 9.38
Area: 31747
Amount: 0
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 09-Apr-2018 13:49:50

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4169.D

Injection Date: 09-Apr-2018 13:37:30

Instrument ID: HP5973C

Lims ID: BFB

Client ID:

Operator ID: RR

ALS Bottle#:

2

Worklist Smp#:

2

Injection Vol: 1.0 uL

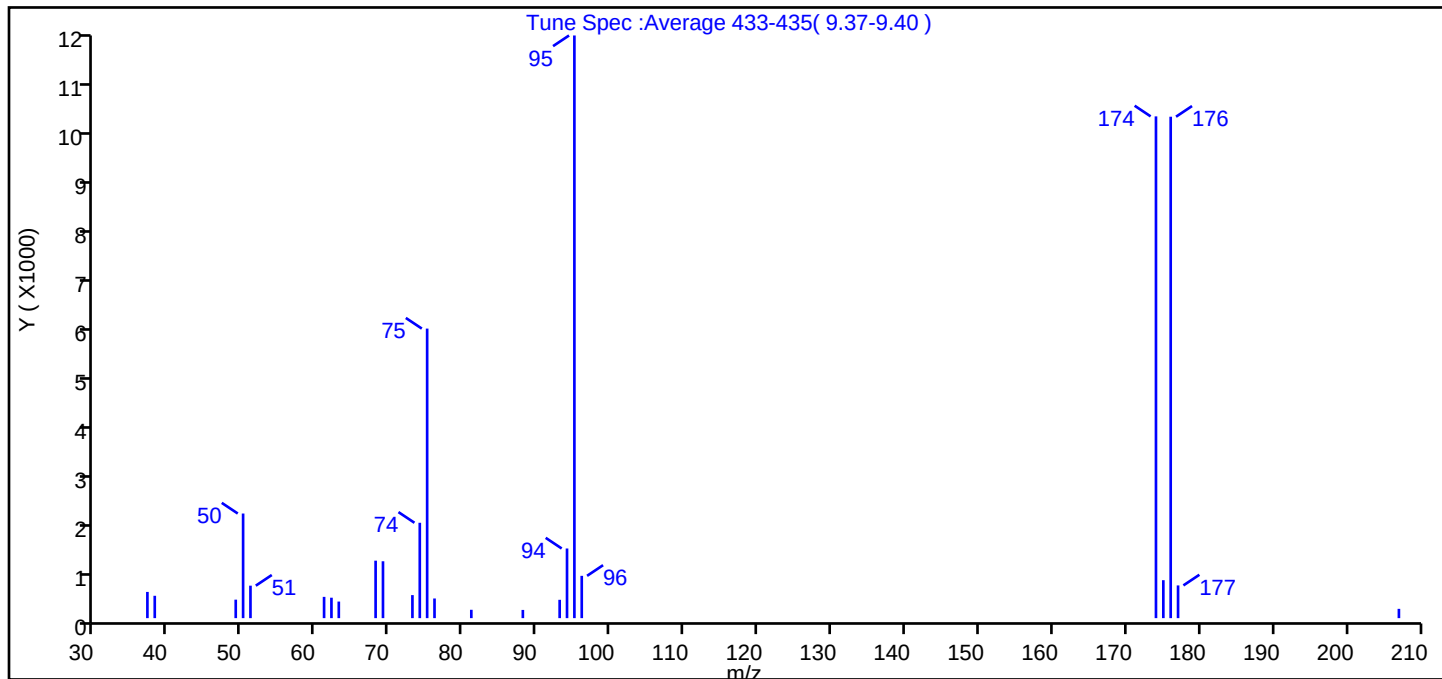
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	49.7
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.1
175	5 to 9% of m/z 174	6.5 (7.6)
176	Greater than 95% but less than 101% of m/z 174	86.1 (99.9)
177	5 to 9% of m/z 176	5.6 (6.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4169.D\C-8260.rslt\spectra.d
Injection Date: 09-Apr-2018 13:37:30
Spectrum: Tune Spec :Average 433-435(9.37-9.40)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 25

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	536	63.00	339	81.00	171	175.00	776
38.00	457	68.00	1175	88.00	168	176.00	10252
49.00	378	69.00	1163	93.00	375	177.00	669
50.00	2139	73.00	471	94.00	1424	207.00	190
51.00	664	74.00	1950	95.00	11913		
61.00	435	75.00	5920	96.00	865		
62.00	418	76.00	402	174.00	10259		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4922.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 25-Apr-2018 19:54:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0070975-001
Operator ID: KN Instrument ID: HP5973C
Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Apr-2018 09:59:18 Calib Date: 09-Apr-2018 22:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 08:49:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	9.383	9.383	0.000	0	43702	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00069

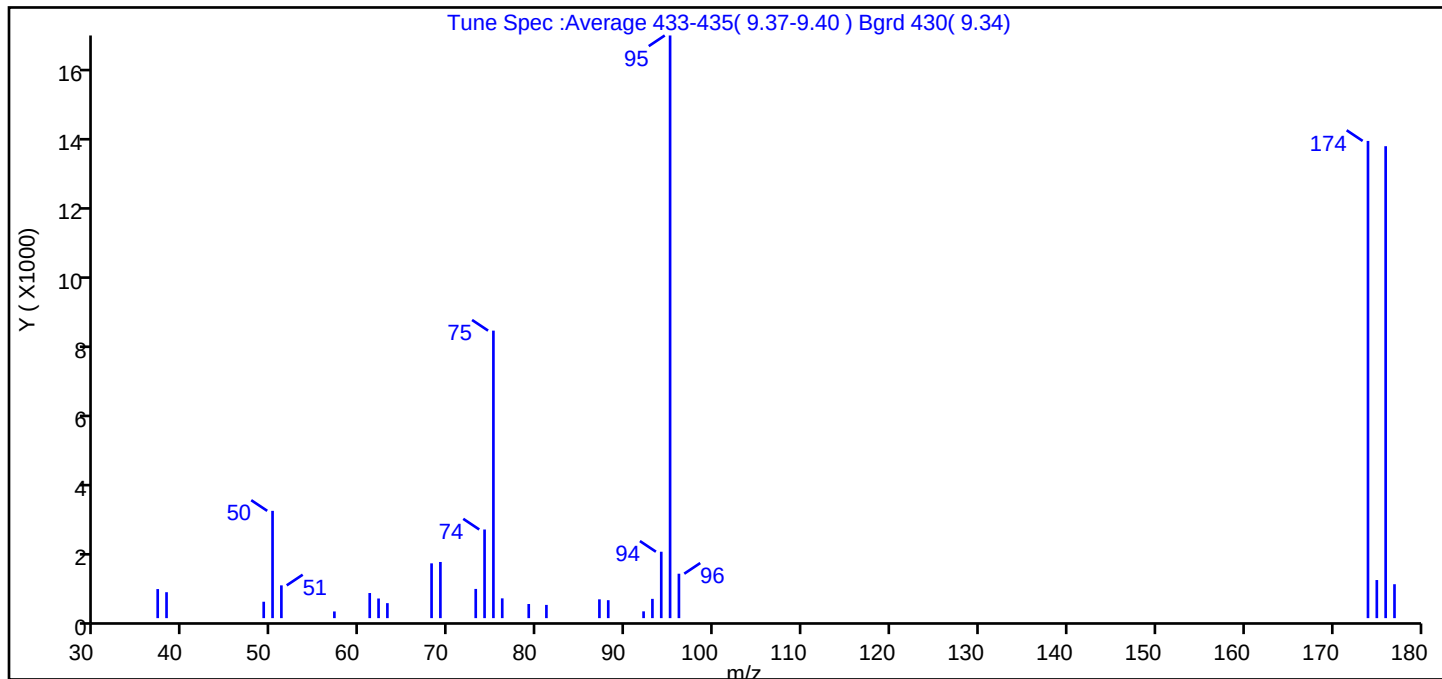
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4922.D
Injection Date: 25-Apr-2018 19:54:30 Instrument ID: HP5973C
Lims ID: BFB
Client ID:
Operator ID: KN ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.4
75	30 to 60% of m/z 95	49.3
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	81.9
175	5 to 9% of m/z 174	6.5 (8.0)
176	Greater than 95% but less than 101% of m/z 174	81.0 (98.9)
177	5 to 9% of m/z 176	5.8 (7.2)

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4922.D\C-8260.rslt\spectra.d
Injection Date: 25-Apr-2018 19:54:30
Spectrum: Tune Spec :Average 433-435(9.37-9.40) Bgrd 430(9.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 28

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	808	62.00	546	76.00	550	94.00	1846
38.00	721	63.00	417	79.00	393	95.00	16194
49.00	456	68.00	1523	81.00	368	96.00	1235
50.00	2982	69.00	1561	87.00	523	174.00	13263
51.00	911	73.00	812	88.00	499	175.00	1059
57.00	186	74.00	2464	92.00	189	176.00	13117
61.00	698	75.00	7991	93.00	536	177.00	943

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4947.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Apr-2018 08:49:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0070985-002
Operator ID: RR Instrument ID: HP5973C
Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Apr-2018 09:01:48 Calib Date: 09-Apr-2018 22:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 09:01:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	9.383	9.383	0.000	0	32559	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00069

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4947.D

Injection Date: 26-Apr-2018 08:49:30

Instrument ID: HP5973C

Lims ID: BFB

Client ID:

Operator ID: RR

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 uL

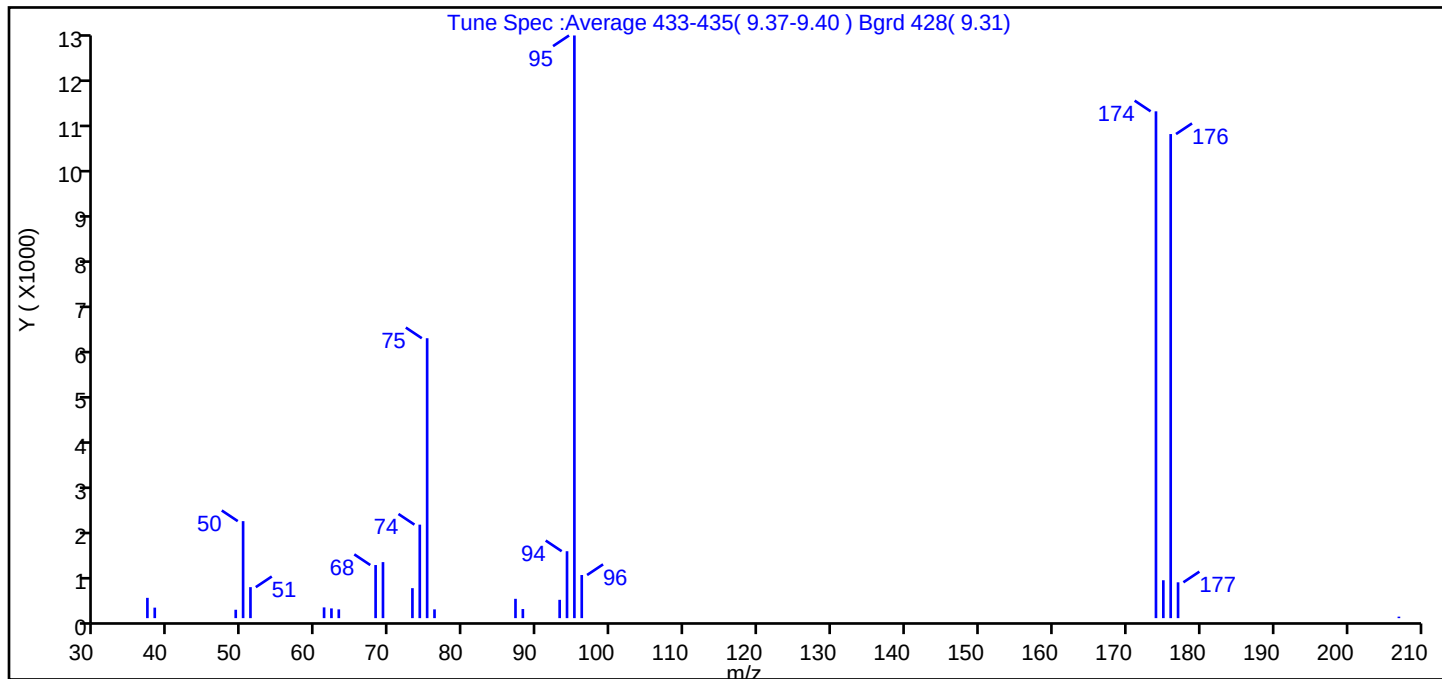
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.6
75	30 to 60% of m/z 95	48.0
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	87.0
175	5 to 9% of m/z 174	6.5 (7.5)
176	Greater than 95% but less than 101% of m/z 174	83.1 (95.5)
177	5 to 9% of m/z 176	6.2 (7.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4947.D\C-8260.rslt\spectra.d
Injection Date: 26-Apr-2018 08:49:30
Spectrum: Tune Spec :Average 433-435(9.37-9.40) Bgrd 428(9.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 25

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	423	63.00	183	87.00	403	175.00	790
38.00	219	68.00	1107	88.00	190	176.00	10091
49.00	175	69.00	1168	93.00	382	177.00	747
50.00	2022	73.00	625	94.00	1395	207.00	31
51.00	646	74.00	1949	95.00	12146		
61.00	224	75.00	5835	96.00	899		
62.00	203	76.00	183	174.00	10565		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4973.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Apr-2018 20:02:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0071016-001
Operator ID: KN Instrument ID: HP5973C
Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Apr-2018 08:24:19 Calib Date: 09-Apr-2018 22:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: reiler

Date: 27-Apr-2018 08:10:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	9.384	9.384	0.000	0	45322	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00069

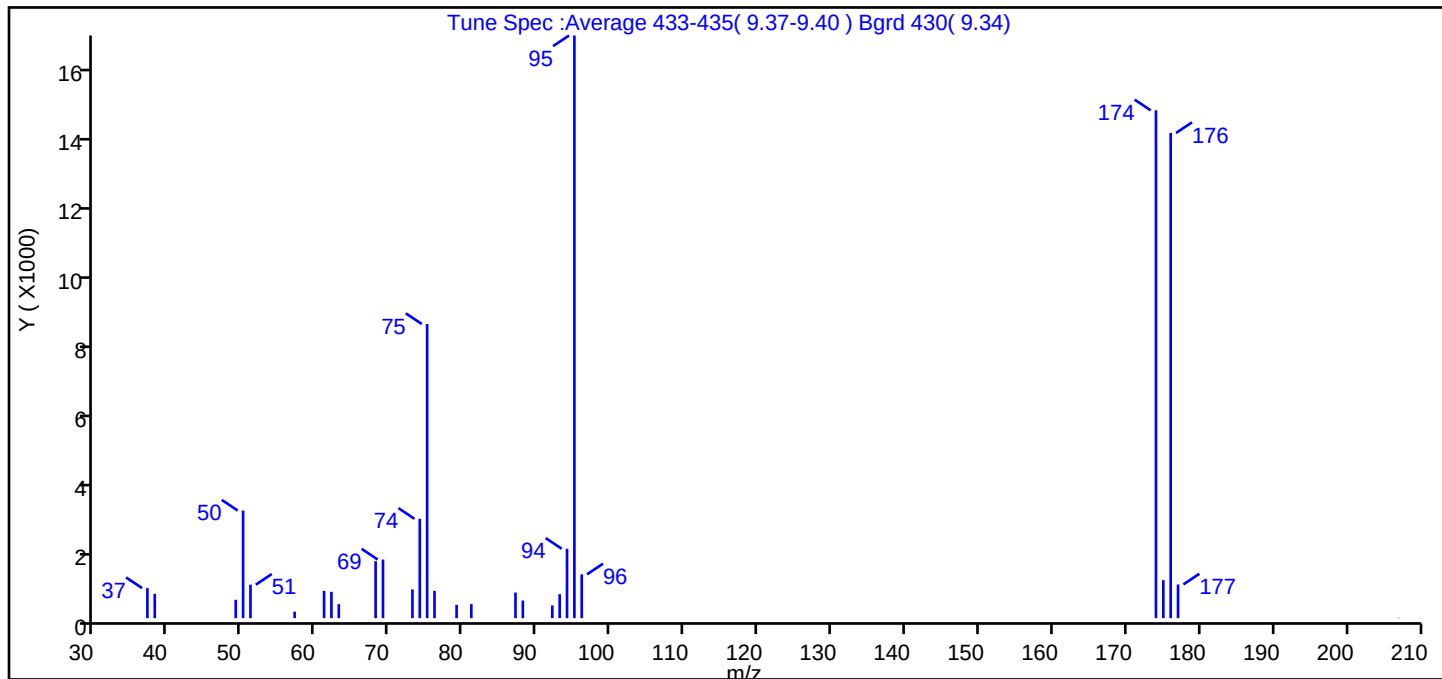
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4973.D
Injection Date: 26-Apr-2018 20:02:30 Instrument ID: HP5973C
Lims ID: BFB
Client ID:
Operator ID: KN ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.5
75	30 to 60% of m/z 95	50.5
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	87.2
175	5 to 9% of m/z 174	6.5 (7.5)
176	Greater than 95% but less than 101% of m/z 174	83.3 (95.5)
177	5 to 9% of m/z 176	5.8 (6.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4973.D\C-8260.rslt\spectra.d
Injection Date: 26-Apr-2018 20:02:30
Spectrum: Tune Spec :Average 433-435(9.37-9.40) Bgrd 430(9.34)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 29

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	874	63.00	406	81.00	407	174.00	14768
38.00	707	68.00	1655	87.00	745	175.00	1107
49.00	534	69.00	1704	88.00	512	176.00	14109
50.00	3128	73.00	834	92.00	370	177.00	980
51.00	973	74.00	2889	93.00	696	207.00	10
57.00	188	75.00	8553	94.00	2018		
61.00	795	76.00	795	95.00	16944		
62.00	765	79.00	387	96.00	1275		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-410900/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4927.D</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/25/2018 22:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4927.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 25-Apr-2018 22:29:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0070975-006
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 09:59:25 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: nowakk

Date: 25-Apr-2018 23:12:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	139130	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	84	313608	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	348846	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	92	197846	25.0	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.061	0.012	98	93184	25.0	25.9	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	804228	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	261524	25.0	24.8	
10 Dichlorodifluoromethane	85		4.400					ND	
11 Chlorodifluoromethane	51		4.448					ND	
12 Chloromethane	50		4.827					ND	
13 Vinyl chloride	62		5.041					ND	
151 Butadiene	54	5.100	5.100	0.000	1	462		0.0291	7Ma
14 Bromomethane	94		5.657					ND	
15 Chloroethane	64		5.776					ND	
16 Dichlorofluoromethane	67		6.049					ND	
17 Trichlorofluoromethane	101		6.132					ND	
148 Ethanol	45		6.333					ND	
18 Ethyl ether	59		6.416					ND	
19 Propene oxide	58		6.559					ND	
20 Acrolein	56		6.642					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		6.701					ND	
22 1,1-Dichloroethene	96		6.760					ND	
23 Acetone	43		6.796					ND	
24 Isopropyl alcohol	45		6.891					ND	
25 Iodomethane	142		6.986					ND	
26 Carbon disulfide	76	7.080	7.080	0.000	98	9082		0.2186	
27 Methyl acetate	43		7.092					ND	
28 3-Chloro-1-propene	41		7.116					ND	
29 Acetonitrile	40		7.128					ND	
30 Methylene Chloride	84		7.258					ND	
31 2-Methyl-2-propanol	59		7.270					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		7.448					ND	
33 Acrylonitrile	53		7.484					ND	
34 trans-1,2-Dichloroethene	96	7.519	7.507	0.012	8	2617		0.2096	a
35 Hexane	57	7.673	7.673	0.000	24	1720		0.1339	a
135 Halothane	117		7.804					ND	
36 Isopropyl ether	45		7.827					ND	
37 Vinyl acetate	43		7.851					ND	
39 1,1-Dichloroethane	63		7.899					ND	
38 1,1-Dimethoxyethane	75		7.910					ND	
40 2-Chloro-1,3-butadiene	53		7.958					ND	
41 Tert-butyl ethyl ether	59		8.148					ND	
42 Ethyl acetate	43		8.349					ND	
43 2-Butanone (MEK)	43		8.349					ND	
44 2,2-Dichloropropane	77		8.397					ND	
45 cis-1,2-Dichloroethene	96		8.397					ND	
46 Propionitrile	54		8.444					ND	
47 Methacrylonitrile	41		8.563					ND	
48 Chlorobromomethane	128		8.610					ND	
49 Tetrahydrofuran	42		8.634					ND	
50 Chloroform	83		8.634					ND	
51 1,1,1-Trichloroethane	97		8.812					ND	
52 Cyclohexane	56		8.859					ND	
53 Isobutyl alcohol	43		8.871					ND	
54 1,1-Dichloropropene	75		8.918					ND	
55 Carbon tetrachloride	117		8.954					ND	
147 t-Amyl alcohol	59		8.966					ND	
152 Isooctane	57		9.061					ND	Ua
56 Tert-amyl methyl ether	73		9.084					ND	
58 1,2-Dichloroethane	62		9.132					ND	
59 n-Heptane	43	9.167	9.156	0.011	85	3622		0.2853	
1 1,4-Difluorobenzene	114		9.345					ND	
60 n-Butanol	56		9.381					ND	
141 2,4,4-Trimethyl-1-pentene	55		9.476					ND	
142 Ethyl acrylate	55		9.535					ND	
62 Trichloroethene	95		9.594					ND	
140 2,4,4-Trimethyl-2-pentene	97		9.618					ND	
63 Methyl methacrylate	41		9.737					ND	U
64 Methylcyclohexane	83	9.748	9.749	-0.001	1	1282		0.0725	7a
65 1,2-Dichloropropane	63		9.796					ND	
66 1,4-Dioxane	88		9.855					ND	
67 Dibromomethane	93		9.926					ND	
68 Dichlorobromomethane	83		9.986					ND	
69 2-Chloroethyl vinyl ether	63		10.116					ND	
70 2-Nitropropane	43		10.140					ND	
71 Epichlorohydrin	57		10.247					ND	
72 cis-1,3-Dichloropropene	75		10.306					ND	
73 4-Methyl-2-pentanone (MIBK)	43		10.353					ND	
74 Toluene	92		10.591					ND	
75 Ethyl methacrylate	69		10.662					ND	
76 2-Methylthiophene	97		10.673					ND	
77 trans-1,3-Dichloropropene	75		10.721					ND	
78 3-Methylthiophene	97		10.899					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
79 1,1,2-Trichloroethane	83		10.899					ND	
155 n-Butyl acetate	43		10.994					ND	
80 2-Hexanone	43		10.994					ND	
82 1,3-Dichloropropane	76		11.041					ND	
81 Tetrachloroethene	166		11.041					ND	
83 Chlorodibromomethane	129		11.266					ND	
84 Ethylene Dibromide	107		11.397					ND	
85 3-Chlorobenzotrifluoride	180		11.563					ND	
146 1-Chlorohexane	55		11.587					ND	
86 4-Chlorobenzotrifluoride	180		11.598					ND	
89 1,1,1,2-Tetrachloroethane	131		11.776					ND	
90 m-Xylene & p-Xylene	106		11.824					ND	
91 o-Xylene	106		12.180					ND	
93 2-Chlorobenzotrifluoride	180		12.345					ND	
94 Isopropylbenzene	105		12.440					ND	
95 Bromoform	173		12.452					ND	
96 Cyclohexanone	55		12.642					ND	
97 1,1,2,2-Tetrachloroethane	83		12.725					ND	
98 trans-1,4-Dichloro-2-buten	53		12.749					ND	
99 N-Propylbenzene	91	12.796	12.796	0.000	1	8287		0.1123	a
100 1,2,3-Trichloropropane	110		12.796					ND	
108 Pentachloroethane	167		13.353					ND	
110 4-Isopropyltoluene	119	13.531	13.531	0.000	89	5914		0.0990	Ma
112 1,2,3-Trimethylbenzene	105		13.709					ND	Ua
113 1,4-Dichlorobenzene	146		13.733					ND	Ua
114 Dicyclopentadiene	66		13.769					ND	
150 Benzyl chloride	126		13.852					ND	
115 n-Butylbenzene	91	13.946	13.946	0.000	92	6281		0.1216	M
116 1,2-Dichlorobenzene	146		14.148					ND	
117 1,2-Dibromo-3-Chloropropan	75		15.002					ND	U
118 1,3,5-Trichlorobenzene	180		15.203					ND	
119 1,2,4-Trichlorobenzene	180	16.057	16.045	0.012	72	2176		0.0993	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	84	6134		0.6957	
121 Naphthalene	128		16.460					ND	
122 1,2,3-Trichlorobenzene	180	16.840	16.828	0.012	1	1858		0.0979	a
149 2-Methylnaphthalene	142	18.393	18.393	0.000	1	425		0.0165	7Ma
137 Nitrobenzene	77		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
138 Methyl acrylate	1		0.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1				0			0.2096	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		5.500					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 131 Bromoethane TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 130 bis(chloromethyl)ether TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 133 1-Bromopropane	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 134 tert-amyl alcohol TIC	1		0.000					ND	
T 129 Aziridine TIC	1		0.000					ND	
T 132 Pentachloroethane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4927.D

Injection Date: 25-Apr-2018 22:29:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

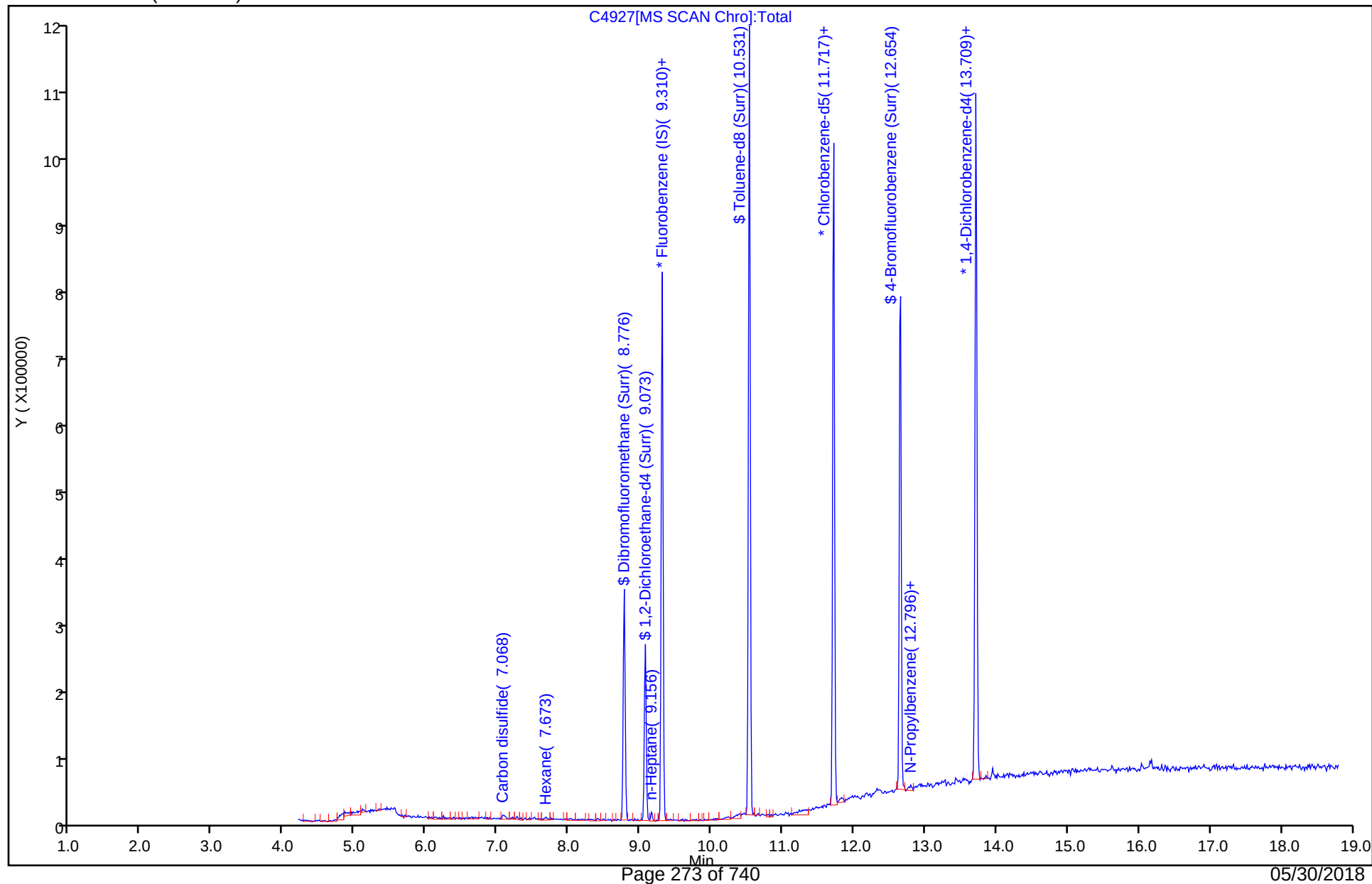
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-410957/7</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4952.D</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 10:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410957</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4952.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Apr-2018 10:58:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0070985-007
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 12:50:16 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 12:52:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	141851	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	315185	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	346056	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	94	199925	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.072	0.000	98	93171	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	805308	25.0	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	262363	25.0	24.7	
10 Dichlorodifluoromethane	85		4.412					ND	
11 Chlorodifluoromethane	51		4.448					ND	
12 Chloromethane	50	4.839	4.839	0.000	29	4232		0.2166	a
13 Vinyl chloride	62		5.053					ND	
151 Butadiene	54	5.112	5.112	0.000	1	366		0.0226	7Ma
14 Bromomethane	94		5.657					ND	
15 Chloroethane	64		5.788					ND	
16 Dichlorofluoromethane	67		6.061					ND	
17 Trichlorofluoromethane	101		6.132					ND	
148 Ethanol	45		6.333					ND	
18 Ethyl ether	59		6.428					ND	
19 Propene oxide	58		6.558					ND	
20 Acrolein	56		6.653					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		6.713					ND	
22 1,1-Dichloroethene	96		6.760					ND	
23 Acetone	43		6.796					ND	
24 Isopropyl alcohol	45		6.891					ND	
25 Iodomethane	142		6.985					ND	
26 Carbon disulfide	76	7.092	7.080	0.012	97	6818		0.1609	
27 Methyl acetate	43		7.092					ND	
29 Acetonitrile	40		7.128					ND	
28 3-Chloro-1-propene	41		7.128					ND	
31 2-Methyl-2-propanol	59		7.282					ND	
32 Methyl tert-butyl ether	73		7.448					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Acrylonitrile	53		7.495					ND	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	3	1816		0.1427	a
35 Hexane	57	7.673	7.673	0.000	42	1698		0.1297	a
135 Halothane	117		7.804					ND	
36 Isopropyl ether	45		7.827					ND	
37 Vinyl acetate	43		7.851					ND	
39 1,1-Dichloroethane	63		7.899					ND	
38 1,1-Dimethoxyethane	75		7.910					ND	
40 2-Chloro-1,3-butadiene	53		7.970					ND	
41 Tert-butyl ethyl ether	59		8.148					ND	
42 Ethyl acetate	43		8.337					ND	
43 2-Butanone (MEK)	43		8.349					ND	
44 2,2-Dichloropropane	77		8.397					ND	
45 cis-1,2-Dichloroethene	96		8.397					ND	
46 Propionitrile	54		8.444					ND	
47 Methacrylonitrile	41		8.563					ND	
48 Chlorobromomethane	128		8.622					ND	
49 Tetrahydrofuran	42		8.634					ND	
50 Chloroform	83	8.634	8.634	0.000	1	939		0.0416	7Ma
51 1,1,1-Trichloroethane	97		8.812					ND	
52 Cyclohexane	56		8.859					ND	
53 Isobutyl alcohol	43		8.871					ND	
54 1,1-Dichloropropene	75		8.930					ND	
55 Carbon tetrachloride	117		8.954					ND	
147 t-Amyl alcohol	59		8.966					ND	
152 Isooctane	57		9.072					ND	
56 Tert-amyl methyl ether	73		9.084					ND	
58 1,2-Dichloroethane	62		9.132					ND	
59 n-Heptane	43	9.156	9.156	0.000	51	3686		0.2847	a
1 1,4-Difluorobenzene	114		9.345					ND	
60 n-Butanol	56		9.381					ND	
141 2,4,4-Trimethyl-1-pentene	55		9.476					ND	
142 Ethyl acrylate	55		9.535					ND	
140 2,4,4-Trimethyl-2-pentene	97		9.618					ND	
63 Methyl methacrylate	41		9.725					ND	U
64 Methylcyclohexane	83	9.737	9.737	-0.011	1	729		0.0404	7Ma
65 1,2-Dichloropropane	63		9.796					ND	
66 1,4-Dioxane	88		9.855					ND	
67 Dibromomethane	93		9.926					ND	
68 Dichlorobromomethane	83		9.986					ND	
69 2-Chloroethyl vinyl ether	63		10.116					ND	
70 2-Nitropropane	43		10.152					ND	
71 Epichlorohydrin	57		10.246					ND	
72 cis-1,3-Dichloropropene	75		10.306					ND	
73 4-Methyl-2-pentanone (MIBK)	43		10.353					ND	
74 Toluene	92	10.579	10.579	-0.011	1	491		0.0154	7Ma
75 Ethyl methacrylate	69		10.662					ND	
76 2-Methylthiophene	97		10.709					ND	
77 trans-1,3-Dichloropropene	75		10.721					ND	
78 3-Methylthiophene	97		10.839					ND	
79 1,1,2-Trichloroethane	83		10.899					ND	
80 2-Hexanone	43		10.994					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43		11.017					ND	
82 1,3-Dichloropropane	76		11.041					ND	
81 Tetrachloroethene	166		11.041					ND	
83 Chlorodibromomethane	129		11.266					ND	
84 Ethylene Dibromide	107		11.397					ND	
85 3-Chlorobenzotrifluoride	180		11.563					ND	
146 1-Chlorohexane	55		11.586					ND	
86 4-Chlorobenzotrifluoride	180		11.598					ND	
87 Chlorobenzene	112		11.741					ND	
88 Ethylbenzene	91		11.753					ND	
89 1,1,1,2-Tetrachloroethane	131		11.776					ND	
90 m-Xylene & p-Xylene	106		11.824					ND	
91 o-Xylene	106		12.180					ND	
93 2-Chlorobenzotrifluoride	180		12.345					ND	
95 Bromoform	173		12.452					ND	
96 Cyclohexanone	55		12.642					ND	
97 1,1,2,2-Tetrachloroethane	83		12.725					ND	
98 trans-1,4-Dichloro-2-buten	53		12.749					ND	
100 1,2,3-Trichloropropane	110		12.796					ND	
99 N-Propylbenzene	91	12.796	12.796	0.000	7	8693		0.1187	a
101 Bromobenzene	156		12.844					ND	MUa
103 2-Chlorotoluene	126		12.962					ND	
104 3-Chlorotoluene	126		12.998					ND	
105 4-Chlorotoluene	126		13.045					ND	
108 Pentachloroethane	167		13.353					ND	
109 sec-Butylbenzene	105		13.437					ND	Ua
112 1,2,3-Trimethylbenzene	105		13.709					ND	MUa
114 Dicyclopentadiene	66		13.768					ND	
150 Benzyl chloride	126		13.851					ND	
115 n-Butylbenzene	91	13.946	13.946	0.000	95	8228		0.1606	M
116 1,2-Dichlorobenzene	146		14.148					ND	
117 1,2-Dibromo-3-Chloropropan	75		15.002					ND	U
118 1,3,5-Trichlorobenzene	180		15.203					ND	
119 1,2,4-Trichlorobenzene	180	16.033	16.045	-0.012	77	2259		0.1039	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	81	4850		0.5545	
121 Naphthalene	128		16.460					ND	
149 2-Methylnaphthalene	142	18.393	18.393	0.000	1	1228		0.0480	7a
137 Nitrobenzene	77		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
138 Methyl acrylate	1		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1				0			0.1427	
T 156 1-Chloro-1-fluoroethane TI	47		5.500					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 134 tert-amyl alcohol TIC	1		0.000					ND	
T 132 Pentachloroethane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 129 Aziridine TIC	1		0.000					ND	
T 131 Bromoethane TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 133 1-Bromopropane	1		0.000					ND	
T 130 bis(chloromethyl)ether TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4952.D

Injection Date: 26-Apr-2018 10:58:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

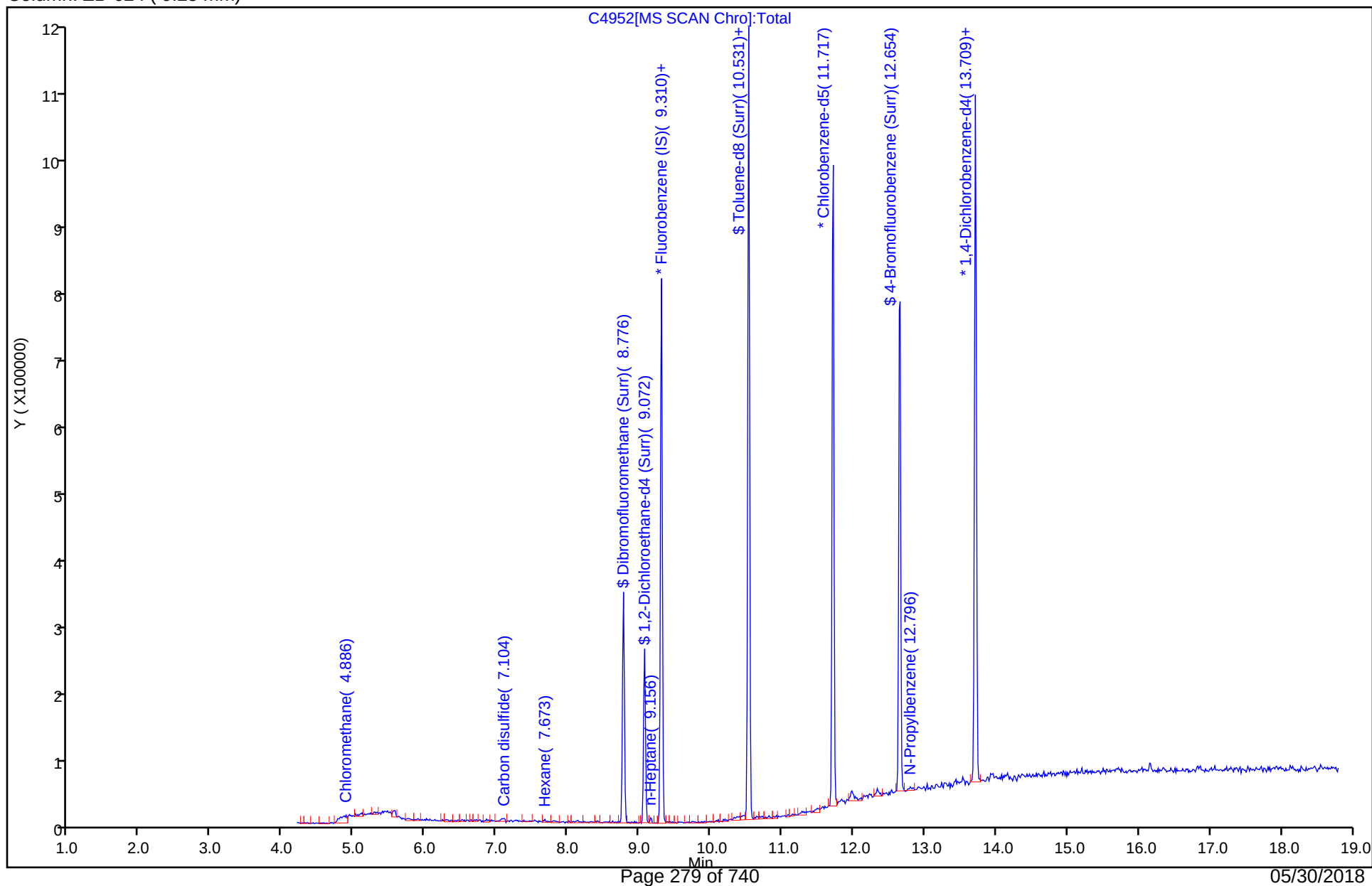
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

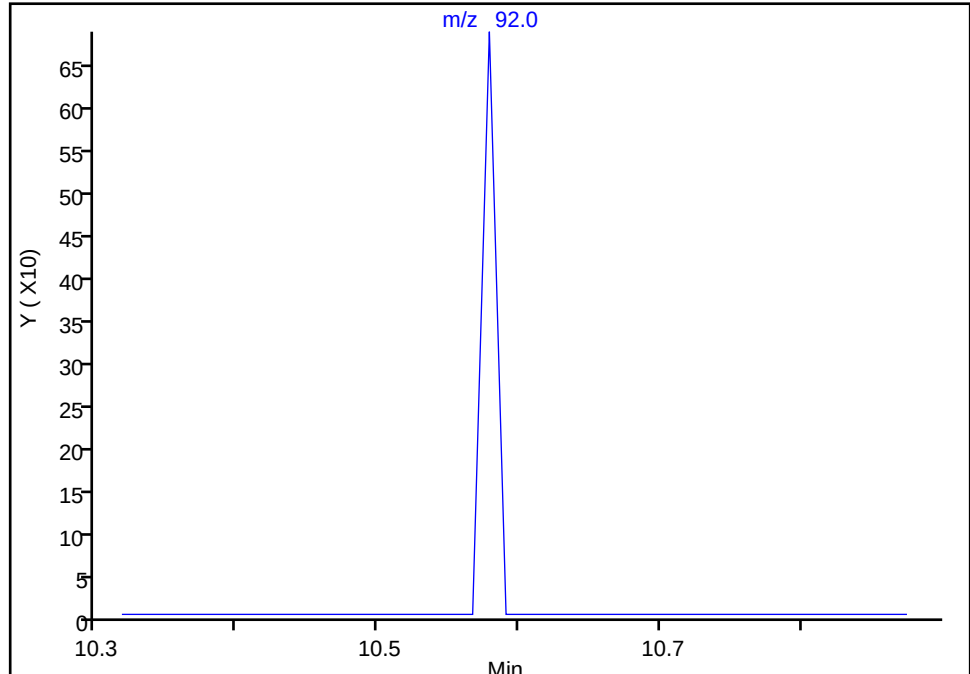
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4952.D
Injection Date: 26-Apr-2018 10:58:30 Instrument ID: HP5973C
Lims ID: MB
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

74 Toluene, CAS: 108-88-3

Signal: 1

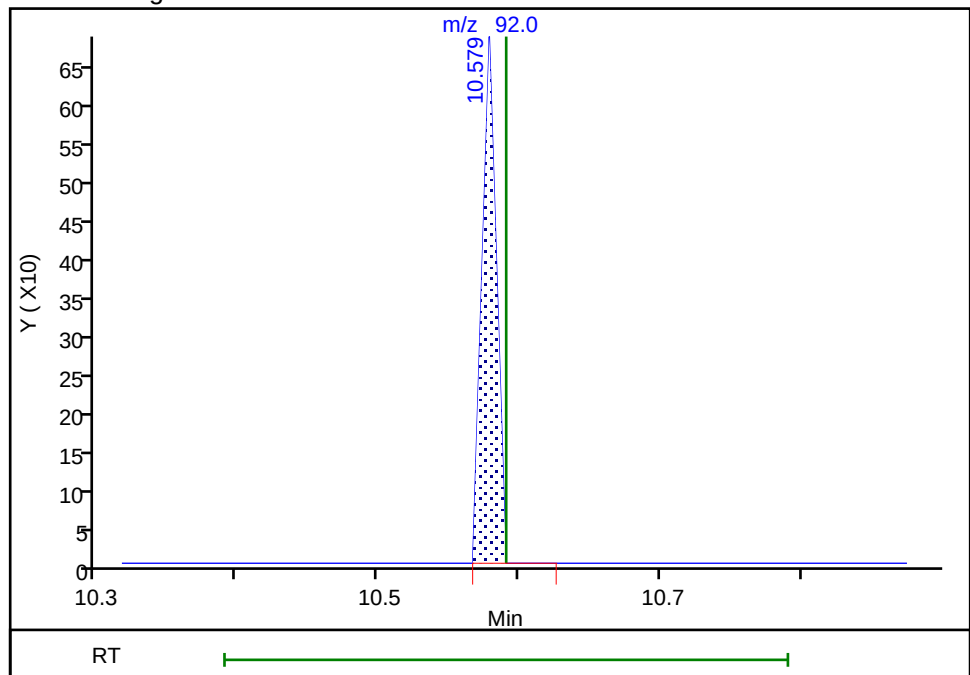
Not Detected
Expected RT: 10.59

Processing Integration Results



RT: 10.58
Area: 491
Amount: 0.015402
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 26-Apr-2018 12:48:25
Audit Action: Manually Integrated

Audit Reason: Missed Peak
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05/30/2018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-411190/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4978.D</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 22:27</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>411190</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0	U	1.0	0.41
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
108-88-3	Toluene	1.0	U	1.0	0.51
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4978.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Apr-2018 22:27:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0071016-006
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Apr-2018 08:24:25 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: nowakk

Date: 26-Apr-2018 23:22:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	136046	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	84	305630	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	339357	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	190845	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.072	0.001	98	90296	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	777496	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	257006	25.0	25.0	
10 Dichlorodifluoromethane	85		4.412					ND	
11 Chlorodifluoromethane	51		4.436					ND	
12 Chloromethane	50		4.839					ND	
13 Vinyl chloride	62		5.052					ND	
151 Butadiene	54		5.112					ND	
14 Bromomethane	94		5.657					ND	
15 Chloroethane	64		5.788					ND	
16 Dichlorofluoromethane	67		6.060					ND	
17 Trichlorofluoromethane	101		6.143					ND	
148 Ethanol	45		6.333					ND	
18 Ethyl ether	59		6.428					ND	
19 Propene oxide	58		6.559					ND	
20 Acrolein	56		6.641					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		6.713					ND	
22 1,1-Dichloroethene	96		6.760					ND	
23 Acetone	43		6.796					ND	
24 Isopropyl alcohol	45		6.891					ND	
25 Iodomethane	142		6.985					ND	
26 Carbon disulfide	76	7.080	7.080	0.000	94	7324		0.1803	a
27 Methyl acetate	43		7.104					ND	
28 3-Chloro-1-propene	41		7.128					ND	
29 Acetonitrile	40		7.128					ND	
31 2-Methyl-2-propanol	59		7.282					ND	
32 Methyl tert-butyl ether	73		7.448					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Acrylonitrile	53		7.495					ND	
34 trans-1,2-Dichloroethene	96	7.531	7.507	0.024	1	2694		0.2207	a
35 Hexane	57	7.673	7.673	0.000	31	1766		0.1406	a
135 Halothane	117		7.804					ND	
36 Isopropyl ether	45		7.827					ND	
37 Vinyl acetate	43		7.851					ND	
39 1,1-Dichloroethane	63		7.898					ND	
38 1,1-Dimethoxyethane	75		7.910					ND	
40 2-Chloro-1,3-butadiene	53		7.958					ND	
41 Tert-butyl ethyl ether	59		8.136					ND	
42 Ethyl acetate	43		8.337					ND	
43 2-Butanone (MEK)	43		8.349					ND	
44 2,2-Dichloropropane	77		8.396					ND	
45 cis-1,2-Dichloroethene	96		8.396					ND	
46 Propionitrile	54		8.444					ND	
47 Methacrylonitrile	41		8.563					ND	
48 Chlorobromomethane	128		8.622					ND	
49 Tetrahydrofuran	42		8.634					ND	
50 Chloroform	83		8.634					ND	
51 1,1,1-Trichloroethane	97		8.812					ND	
52 Cyclohexane	56		8.859					ND	
53 Isobutyl alcohol	43		8.871					ND	
54 1,1-Dichloropropene	75		8.930					ND	
55 Carbon tetrachloride	117		8.954					ND	
147 t-Amyl alcohol	59		8.966					ND	
152 Isooctane	57		9.061					ND	Ua
56 Tert-amyl methyl ether	73		9.084					ND	
57 Benzene	78		9.120					ND	
58 1,2-Dichloroethane	62		9.132					ND	
59 n-Heptane	43	9.156	9.155	0.001	64	3760		0.3029	a
1 1,4-Difluorobenzene	114		9.334					ND	
60 n-Butanol	56		9.381					ND	
141 2,4,4-Trimethyl-1-pentene	55		9.476					ND	
142 Ethyl acrylate	55		9.535					ND	
140 2,4,4-Trimethyl-2-pentene	97		9.618					ND	
63 Methyl methacrylate	41		9.725					ND	
64 Methylcyclohexane	83		9.748					ND	
65 1,2-Dichloropropane	63		9.796					ND	
66 1,4-Dioxane	88		9.855					ND	
67 Dibromomethane	93		9.926					ND	
68 Dichlorobromomethane	83		9.986					ND	
69 2-Chloroethyl vinyl ether	63		10.116					ND	
70 2-Nitropropane	43		10.140					ND	
71 Epichlorohydrin	57		10.247					ND	
72 cis-1,3-Dichloropropene	75		10.306					ND	
73 4-Methyl-2-pentanone (MIBK)	43		10.353					ND	
74 Toluene	92	10.590	10.590	0.000	1	554		0.0179	7Ma
75 Ethyl methacrylate	69		10.661					ND	
76 2-Methylthiophene	97		10.709					ND	
77 trans-1,3-Dichloropropene	75		10.721					ND	
78 3-Methylthiophene	97		10.840					ND	
79 1,1,2-Trichloroethane	83		10.899					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 2-Hexanone	43		10.994					ND	
155 n-Butyl acetate	43		11.017					ND	
81 Tetrachloroethene	166		11.041					ND	
82 1,3-Dichloropropane	76		11.041					ND	
83 Chlorodibromomethane	129		11.266					ND	
84 Ethylene Dibromide	107		11.397					ND	
85 3-Chlorobenzotrifluoride	180		11.563					ND	
146 1-Chlorohexane	55		11.575					ND	
86 4-Chlorobenzotrifluoride	180		11.598					ND	
87 Chlorobenzene	112		11.741					ND	
88 Ethylbenzene	91		11.752					ND	
89 1,1,1,2-Tetrachloroethane	131		11.776					ND	
90 m-Xylene & p-Xylene	106		11.824					ND	
91 o-Xylene	106		12.179					ND	
92 Styrene	104		12.179					ND	
93 2-Chlorobenzotrifluoride	180		12.346					ND	
95 Bromoform	173		12.452					ND	
96 Cyclohexanone	55		12.642					ND	
97 1,1,2,2-Tetrachloroethane	83		12.725					ND	
98 trans-1,4-Dichloro-2-buten	53		12.749					ND	
99 N-Propylbenzene	91	12.796	12.796	0.000	0	7333		0.1021	Ma
100 1,2,3-Trichloropropane	110		12.796					ND	
102 1,3,5-Trimethylbenzene	105		12.915					ND	Ua
103 2-Chlorotoluene	126		12.962					ND	
104 3-Chlorotoluene	126		12.998					ND	
106 tert-Butylbenzene	134	13.259	13.247	0.012	1	1330		0.1120	Ma
108 Pentachloroethane	167		13.354					ND	
110 4-Isopropyltoluene	119		13.531					ND	MUa
112 1,2,3-Trimethylbenzene	105		13.709					ND	Ua
113 1,4-Dichlorobenzene	146		13.733					ND	
114 Dicyclopentadiene	66		13.769					ND	
150 Benzyl chloride	126		13.852					ND	
115 n-Butylbenzene	91	13.946	13.946	0.000	84	9221		0.1836	
116 1,2-Dichlorobenzene	146		14.148					ND	
117 1,2-Dibromo-3-Chloropropan	75		15.002					ND	U
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	79	2395		0.1123	
120 Hexachlorobutadiene	225	16.152	16.164	-0.012	85	4567		0.5324	
121 Naphthalene	128		16.460					ND	
122 1,2,3-Trichlorobenzene	180		16.828					ND	
149 2-Methylnaphthalene	142		18.393					ND	U
137 Nitrobenzene	77		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
138 Methyl acrylate	1		0.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1				0			0.2207	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		5.500					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 131 Bromoethane TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 130 bis(chloromethyl)ether TIC	1		0.000					ND	
T 133 1-Bromopropane	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 134 tert-amyl alcohol TIC	1		0.000					ND	
T 129 Aziridine TIC	1		0.000					ND	
T 132 Pentachloroethane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4978.D

Injection Date: 26-Apr-2018 22:27:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

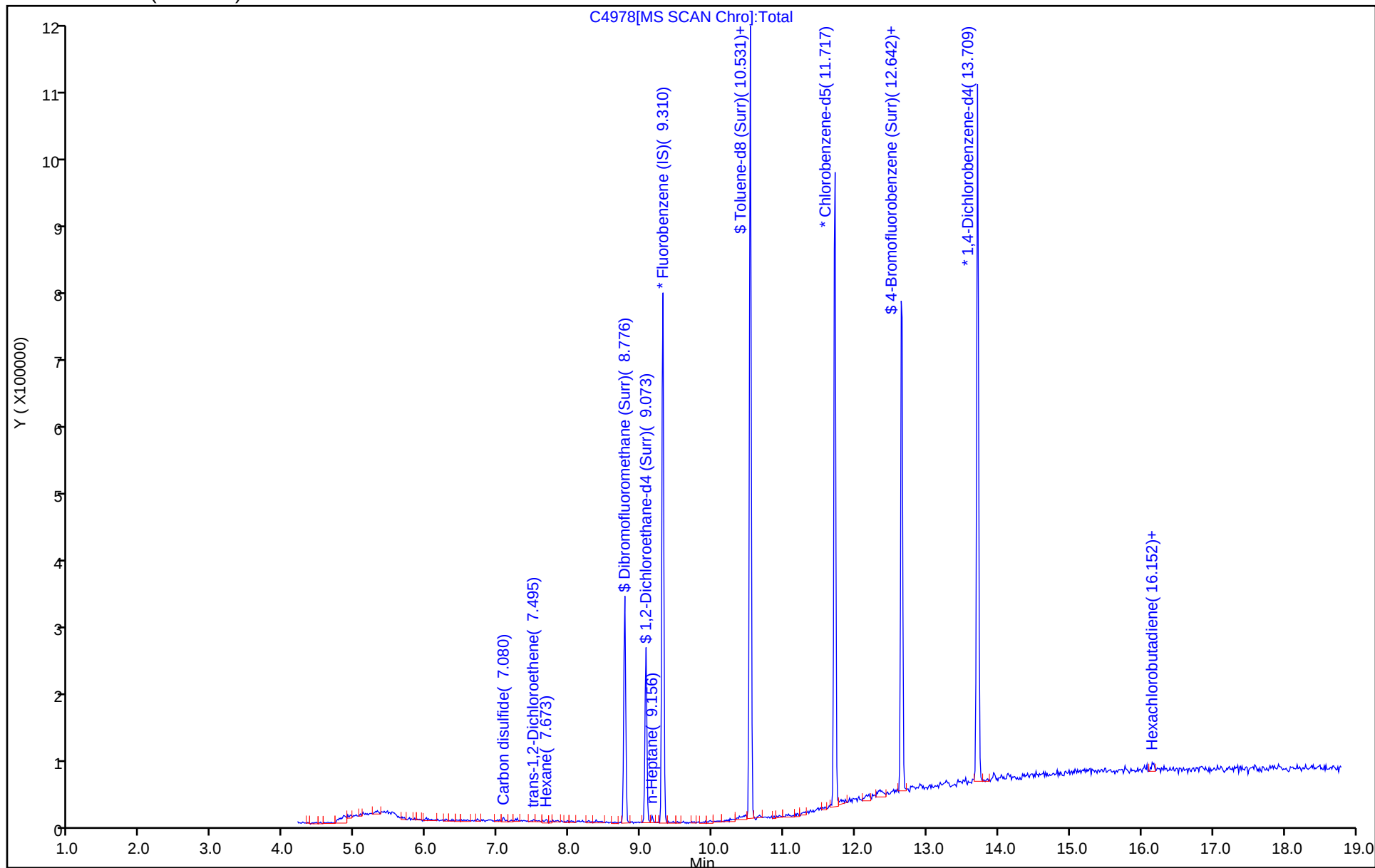
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

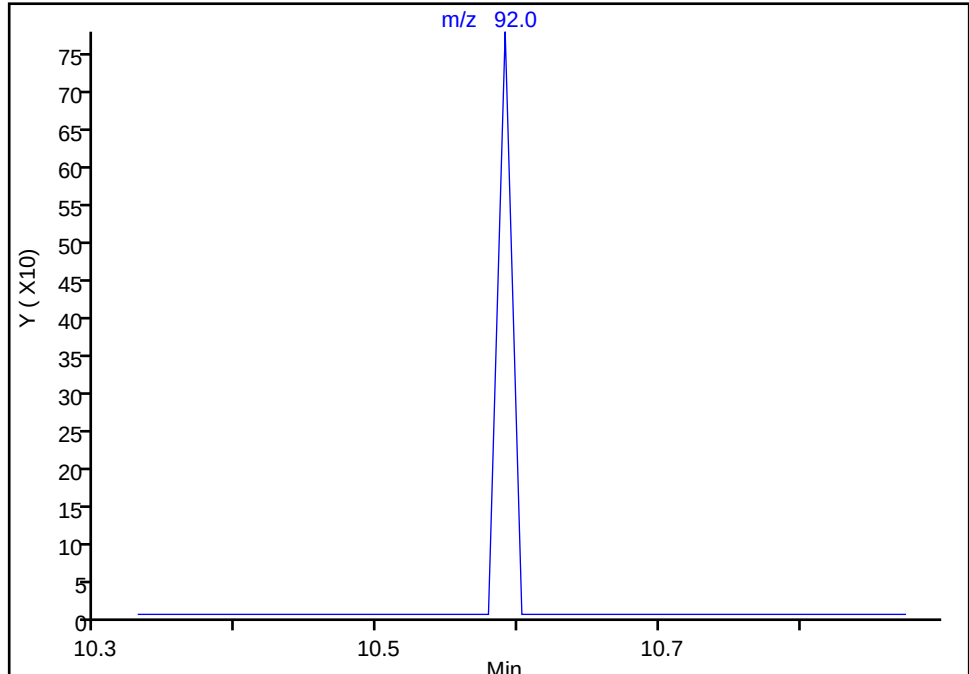
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4978.D
Injection Date: 26-Apr-2018 22:27:30 Instrument ID: HP5973C
Lims ID: MB
Client ID:
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

74 Toluene, CAS: 108-88-3

Signal: 1

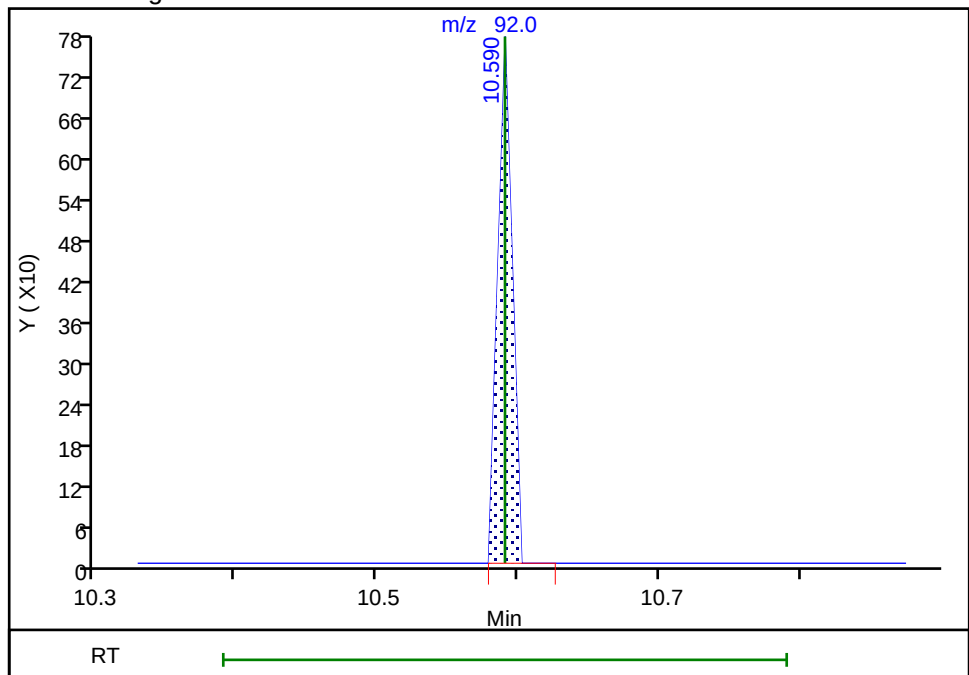
Not Detected
Expected RT: 10.59

Processing Integration Results



RT: 10.59
Area: 554
Amount: 0.017922
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 27-Apr-2018 08:19:54
Audit Action: Manually Integrated

Audit Reason: Missed Peak
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05/30/2018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 480-410900/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4925.D</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/25/2018 21:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	27.3		1.0	0.41
100-41-4	Ethylbenzene	26.3		1.0	0.74
108-88-3	Toluene	26.2		1.0	0.51
1330-20-7	Xylenes, Total	54.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4925.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 25-Apr-2018 21:14:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0070975-004
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 09:59:25 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: nowakk

Date: 25-Apr-2018 21:40:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	139847	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	82	319095	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	345536	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	93	201242	25.0	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.061	0.012	96	92126	25.0	25.5	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	811504	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	269261	25.0	25.1	
10 Dichlorodifluoromethane	85	4.400	4.400	0.000	100	398462	25.0	22.7	
12 Chloromethane	50	4.827	4.827	0.000	99	321696	25.0	16.7	
13 Vinyl chloride	62	5.041	5.041	0.000	99	290429	25.0	18.3	
151 Butadiene	54	5.100	5.100	0.000	96	293200	25.0	18.4	
14 Bromomethane	94	5.657	5.657	0.000	91	283627	25.0	25.2	
15 Chloroethane	64	5.776	5.776	0.000	100	237844	25.0	25.0	
16 Dichlorofluoromethane	67	6.049	6.049	0.000	97	581677	25.0	24.3	
17 Trichlorofluoromethane	101	6.132	6.132	0.000	99	569600	25.0	25.2	
18 Ethyl ether	59	6.428	6.416	0.012	90	182270	25.0	25.3	
20 Acrolein	56	6.642	6.642	0.000	99	130603	125.0	193.2	
21 1,1,2-Trichloro-1,2,2-trif	101	6.701	6.701	0.000	91	329081	25.0	30.4	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	97	287064	25.0	27.0	
23 Acetone	43	6.796	6.796	0.000	99	281409	125.0	113.3	
25 Iodomethane	142	6.986	6.986	0.000	100	581874	25.0	26.3	
26 Carbon disulfide	76	7.080	7.080	0.000	99	1159713	25.0	27.8	
27 Methyl acetate	43	7.092	7.092	0.000	97	210373	50.0	46.7	
28 3-Chloro-1-propene	41	7.128	7.116	0.012	88	434238	25.0	25.1	
30 Methylene Chloride	84	7.270	7.258	0.012	93	327028	25.0	24.8	
31 2-Methyl-2-propanol	59	7.282	7.270	0.012	99	154711	250.0	248.1	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	95	684190	25.0	24.9	
33 Acrylonitrile	53	7.495	7.484	0.011	99	505390	250.0	250.6	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	97	337037	25.0	26.9	
35 Hexane	57	7.673	7.673	0.000	94	380961	25.0	29.5	
37 Vinyl acetate	43	7.851	7.851	0.000	97	768722	50.0	50.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	7.899	7.899	0.000	96	529222	25.0	26.5	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	100	343806	125.0	118.0	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	75	518449	25.0	28.3	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	81	369266	25.0	26.3	
48 Chlorobromomethane	128	8.622	8.610	0.012	89	162506	25.0	25.3	
49 Tetrahydrofuran	42	8.634	8.634	0.000	86	86549	50.0	44.7	
50 Chloroform	83	8.634	8.634	0.000	93	568781	25.0	25.6	
51 1,1,1-Trichloroethane	97	8.812	8.812	0.000	97	543873	25.0	28.2	
52 Cyclohexane	56	8.859	8.859	0.000	91	494894	25.0	28.7	
53 Isobutyl alcohol	43	8.871	8.871	0.000	60	199026	625.0	638.9	
54 1,1-Dichloropropene	75	8.930	8.918	0.012	96	423759	25.0	28.2	
55 Carbon tetrachloride	117	8.954	8.954	0.000	97	484006	25.0	29.6	
57 Benzene	78	9.120	9.120	0.000	95	1277389	25.0	27.3	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	98	339673	25.0	23.6	
59 n-Heptane	43	9.156	9.156	0.000	90	357826	25.0	28.0	
62 Trichloroethene	95	9.594	9.594	0.000	96	349577	25.0	28.0	
64 Methylcyclohexane	83	9.749	9.749	0.000	88	561393	25.0	31.6	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	95	292742	25.0	27.3	
66 1,4-Dioxane	88	9.855	9.855	0.000	92	26694	500.0	541.0	
67 Dibromomethane	93	9.926	9.926	0.000	93	156905	25.0	24.9	
68 Dichlorobromomethane	83	9.986	9.986	0.000	99	417219	25.0	27.2	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	93	126549	25.0	26.3	
72 cis-1,3-Dichloropropene	75	10.318	10.306	0.012	97	449351	25.0	27.3	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	96	760653	125.0	116.5	
74 Toluene	92	10.591	10.591	0.000	98	847027	25.0	26.2	
75 Ethyl methacrylate	69	10.662	10.662	0.000	88	252674	25.0	26.0	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	93	377111	25.0	25.5	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	88	183684	25.0	25.0	
80 2-Hexanone	43	10.994	10.994	0.000	96	557033	125.0	118.9	
82 1,3-Dichloropropane	76	11.041	11.041	0.000	90	374190	25.0	24.6	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	396984	25.0	27.5	
83 Chlorodibromomethane	129	11.266	11.266	0.000	89	290703	25.0	26.9	
84 Ethylene Dibromide	107	11.397	11.397	0.000	98	213106	25.0	24.3	
87 Chlorobenzene	112	11.741	11.741	0.000	97	994899	25.0	26.0	
88 Ethylbenzene	91	11.753	11.753	0.000	98	1649407	25.0	26.3	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	95	360860	25.0	26.5	
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	97	662616	25.0	27.6	
91 o-Xylene	106	12.180	12.180	0.000	89	650295	25.0	27.1	
92 Styrene	104	12.180	12.180	0.000	87	1068563	25.0	27.3	
94 Isopropylbenzene	105	12.452	12.440	0.012	95	1734182	25.0	27.4	
95 Bromoform	173	12.452	12.452	0.000	43	161509	25.0	32.1	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	96	250138	25.0	25.1	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	90	49281	25.0	20.3	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	1962899	25.0	26.8	
100 1,2,3-Trichloropropane	110	12.808	12.796	0.012	79	77526	25.0	23.6	
101 Bromobenzene	156	12.844	12.844	0.000	85	432467	25.0	26.5	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	70	1473644	25.0	27.4	a
103 2-Chlorotoluene	126	12.962	12.962	0.000	98	425426	25.0	26.5	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	439834	25.0	26.0	
106 tert-Butylbenzene	134	13.247	13.247	0.000	91	333294	25.0	27.6	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	95	1524620	25.0	26.4	
109 sec-Butylbenzene	105	13.437	13.437	0.000	94	1824728	25.0	27.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	1650600	25.0	27.9	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	97	887416	25.0	26.4	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	95	895663	25.0	25.8	
115 n-Butylbenzene	91	13.946	13.946	0.000	98	1382860	25.0	27.0	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	99	797554	25.0	26.1	
117 1,2-Dibromo-3-Chloropropan	75	15.002	15.002	0.000	88	39699	25.0	20.0	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	563502	25.0	26.0	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	97	256464	25.0	29.4	
121 Naphthalene	128	16.460	16.460	0.000	96	1010209	25.0	26.3	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	97	490705	25.0	26.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00124

Amount Added: 12.50

Units: uL

GAS CORP mix_00278

Amount Added: 12.50

Units: uL

C_8260_IS_00110

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00126

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180425-70975.b\\C4925.D

Injection Date: 25-Apr-2018 21:14:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

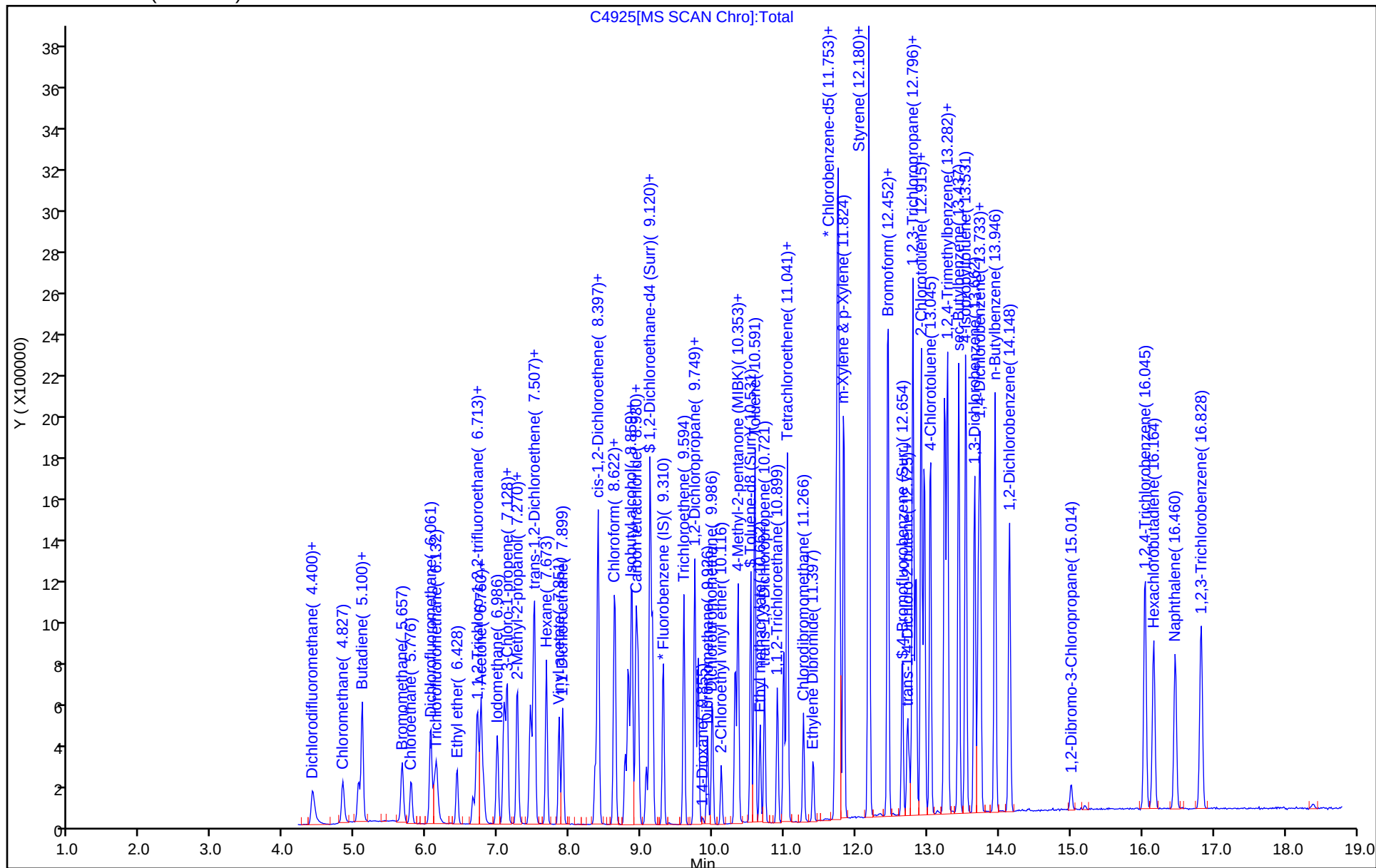
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Client Sample ID: _____ Lab Sample ID: LCS 480-410957/5
 Matrix: Water Lab File ID: C4950.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 04/26/2018 10:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 410957 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	24.8		1.0	0.41
100-41-4	Ethylbenzene	23.9		1.0	0.74
108-88-3	Toluene	24.2		1.0	0.51
1330-20-7	Xylenes, Total	50.0		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C4950.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Apr-2018 10:08:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0070985-005
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-70985.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 08:29:29 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 10:36:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	136663	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	83	314481	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	348543	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	194748	25.0	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.072	0.001	98	88595	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	794207	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	259678	25.0	24.5	
10 Dichlorodifluoromethane	85	4.424	4.412	0.012	100	339781	25.0	19.8	
12 Chloromethane	50	4.839	4.839	0.000	99	299159	25.0	15.9	
13 Vinyl chloride	62	5.064	5.053	0.011	99	268031	25.0	17.3	
151 Butadiene	54	5.112	5.112	0.000	98	253409	25.0	16.2	
14 Bromomethane	94	5.669	5.657	0.012	92	258033	25.0	23.5	
15 Chloroethane	64	5.788	5.788	0.000	100	214869	25.0	23.1	
16 Dichlorofluoromethane	67	6.060	6.061	-0.001	98	541667	25.0	23.1	
17 Trichlorofluoromethane	101	6.144	6.132	0.012	99	507170	25.0	23.0	
18 Ethyl ether	59	6.428	6.428	0.000	90	165633	25.0	23.6	
20 Acrolein	56	6.653	6.653	0.000	98	112387	125.0	170.1	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	91	282172	25.0	26.6	
22 1,1-Dichloroethene	96	6.772	6.760	0.012	96	257457	25.0	24.7	
23 Acetone	43	6.808	6.796	0.012	100	255495	125.0	105.3	
25 Iodomethane	142	6.997	6.985	0.012	99	522753	25.0	24.2	
26 Carbon disulfide	76	7.080	7.080	0.000	100	998729	25.0	24.5	
27 Methyl acetate	43	7.104	7.092	0.012	97	187630	50.0	42.6	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	84	382301	25.0	22.6	
30 Methylene Chloride	84	7.270	7.270	0.000	89	285703	25.0	22.1	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	99	145310	250.0	238.5	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	95	622089	25.0	23.2	
33 Acrylonitrile	53	7.495	7.495	0.000	98	468527	250.0	237.7	
34 trans-1,2-Dichloroethene	96	7.519	7.507	0.012	97	292688	25.0	23.9	
35 Hexane	57	7.673	7.673	0.000	94	321034	25.0	25.5	
37 Vinyl acetate	43	7.851	7.851	0.000	97	679224	50.0	45.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	7.899	7.899	0.000	97	473043	25.0	24.2	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	100	320125	125.0	112.4	
44 2,2-Dichloropropane	77	8.397	8.397	0.000	73	449491	25.0	25.1	
45 cis-1,2-Dichloroethene	96	8.397	8.397	0.000	83	330838	25.0	24.1	
48 Chlorobromomethane	128	8.622	8.622	0.000	88	149263	25.0	23.8	
49 Tetrahydrofuran	42	8.634	8.634	0.000	86	75717	50.0	40.0	
50 Chloroform	83	8.634	8.634	0.000	95	519371	25.0	23.9	
51 1,1,1-Trichloroethane	97	8.824	8.812	0.012	97	487104	25.0	25.9	
52 Cyclohexane	56	8.871	8.859	0.012	89	443355	25.0	26.4	
53 Isobutyl alcohol	43	8.871	8.871	0.000	95	186604	625.0	613.0	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	95	373826	25.0	25.5	
55 Carbon tetrachloride	117	8.954	8.954	0.000	96	423268	25.0	26.5	
57 Benzene	78	9.120	9.120	0.000	95	1137633	25.0	24.8	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	98	308260	25.0	21.9	
59 n-Heptane	43	9.156	9.156	0.000	92	307185	25.0	24.6	
62 Trichloroethene	95	9.594	9.594	0.000	96	310274	25.0	25.4	
64 Methylcyclohexane	83	9.748	9.749	0.000	88	492668	25.0	28.4	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	95	260832	25.0	24.9	
66 1,4-Dioxane	88	9.855	9.855	0.000	90	23576	500.0	484.8	
67 Dibromomethane	93	9.926	9.926	0.000	93	141963	25.0	23.0	
68 Dichlorobromomethane	83	9.998	9.986	0.012	99	370871	25.0	24.8	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	94	111712	25.0	23.7	
72 cis-1,3-Dichloropropene	75	10.318	10.306	0.012	98	406458	25.0	25.3	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	96	700661	125.0	108.9	
74 Toluene	92	10.590	10.591	0.000	99	768180	25.0	24.2	
75 Ethyl methacrylate	69	10.662	10.662	0.000	89	227739	25.0	23.8	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	93	338596	25.0	23.2	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	89	161419	25.0	22.3	
80 2-Hexanone	43	10.994	10.994	0.000	96	515503	125.0	111.7	
81 Tetrachloroethene	166	11.041	11.041	0.000	97	360052	25.0	25.3	
82 1,3-Dichloropropane	76	11.053	11.041	0.012	90	337180	25.0	22.5	
83 Chlorodibromomethane	129	11.266	11.266	0.000	90	262877	25.0	24.7	
84 Ethylene Dibromide	107	11.397	11.397	0.000	98	198780	25.0	23.0	
87 Chlorobenzene	112	11.741	11.741	0.000	98	896628	25.0	23.8	
88 Ethylbenzene	91	11.753	11.753	0.000	98	1476725	25.0	23.9	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	93	326361	25.0	24.3	
90 m-Xylene & p-Xylene	106	11.836	11.824	0.012	98	589226	25.0	24.9	
91 o-Xylene	106	12.179	12.180	-0.001	96	594828	25.0	25.1	
92 Styrene	104	12.179	12.180	-0.001	91	946788	25.0	24.5	
94 Isopropylbenzene	105	12.452	12.440	0.012	95	1559474	25.0	24.4	
95 Bromoform	173	12.452	12.452	0.000	44	148386	25.0	29.9	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	95	224386	25.0	22.3	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	87	43217	25.0	17.7	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	1756934	25.0	23.8	
100 1,2,3-Trichloropropane	110	12.796	12.796	0.000	81	71743	25.0	21.7	
101 Bromobenzene	156	12.844	12.844	0.000	87	396094	25.0	24.0	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	94	1322549	25.0	24.3	
103 2-Chlorotoluene	126	12.962	12.962	0.000	98	384452	25.0	23.7	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	397950	25.0	23.3	
106 tert-Butylbenzene	134	13.247	13.235	0.012	92	301844	25.0	24.8	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	95	1382723	25.0	23.7	
109 sec-Butylbenzene	105	13.436	13.437	0.000	94	1613443	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	1450850	25.0	24.3	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	98	801475	25.0	23.6	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	95	797182	25.0	22.8	
115 n-Butylbenzene	91	13.946	13.947	0.000	97	1220293	25.0	23.7	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	99	723986	25.0	23.5	
117 1,2-Dibromo-3-Chloropropan	75	15.014	15.002	0.012	86	41173	25.0	20.6	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	515123	25.0	23.5	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	98	224800	25.0	25.5	
121 Naphthalene	128	16.460	16.461	0.000	96	918853	25.0	23.7	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	96	432089	25.0	22.8	

Reagents:

8260 CORP mix_00124	Amount Added: 12.50	Units: uL	
GAS CORP mix_00278	Amount Added: 12.50	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180426-70985.b\\C4950.D

Injection Date: 26-Apr-2018 10:08:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

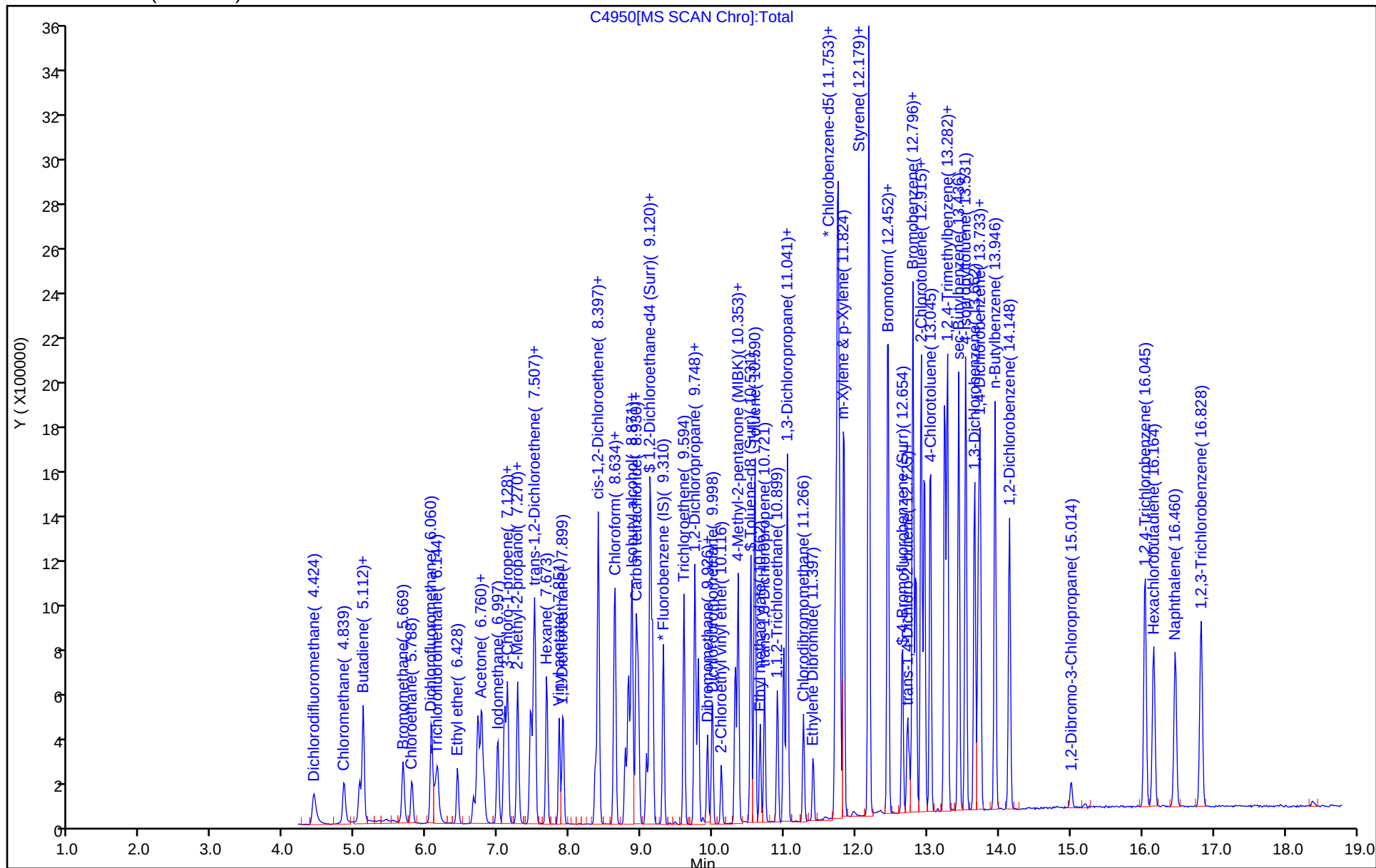
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Client Sample ID: _____ Lab Sample ID: LCS 480-411190/4
 Matrix: Water Lab File ID: C4976.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 04/26/2018 21:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 411190 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	28.0		1.0	0.41
100-41-4	Ethylbenzene	27.2		1.0	0.74
108-88-3	Toluene	27.0		1.0	0.51
1330-20-7	Xylenes, Total	56.2		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C4976.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Apr-2018 21:23:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0071016-004
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180426-71016.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Apr-2018 08:24:25 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: nowakk

Date: 26-Apr-2018 21:48:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.310	0.000	99	133541	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.717	0.000	82	303877	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	94	335542	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.776	0.000	93	189782	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.072	0.000	99	86136	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	769220	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	259881	25.0	25.4	
10 Dichlorodifluoromethane	85	4.412	4.412	0.000	99	364435	25.0	21.7	
12 Chloromethane	50	4.827	4.839	-0.012	99	288871	25.0	15.7	
13 Vinyl chloride	62	5.052	5.052	0.000	98	283346	25.0	18.7	
151 Butadiene	54	5.100	5.112	-0.012	98	288629	25.0	18.9	
14 Bromomethane	94	5.657	5.657	0.000	91	272353	25.0	25.3	
15 Chloroethane	64	5.788	5.788	0.000	100	235626	25.0	25.9	
16 Dichlorofluoromethane	67	6.060	6.060	0.000	97	584255	25.0	25.5	
17 Trichlorofluoromethane	101	6.131	6.143	-0.012	96	581461	25.0	27.0	
18 Ethyl ether	59	6.428	6.428	0.000	91	178653	25.0	26.0	
20 Acrolein	56	6.653	6.641	0.012	99	125845	125.0	194.9	
21 1,1,2-Trichloro-1,2,2-trif	101	6.713	6.713	0.000	91	333799	25.0	32.2	
22 1,1-Dichloroethene	96	6.760	6.760	0.000	97	293233	25.0	28.8	
23 Acetone	43	6.796	6.796	0.000	99	274008	125.0	115.5	
25 Iodomethane	142	6.985	6.985	0.000	99	592660	25.0	28.0	
26 Carbon disulfide	76	7.080	7.080	0.000	99	1176304	25.0	29.5	
27 Methyl acetate	43	7.104	7.104	0.000	98	203221	50.0	47.2	
28 3-Chloro-1-propene	41	7.128	7.128	0.000	81	424785	25.0	25.7	
30 Methylene Chloride	84	7.270	7.270	0.000	88	313522	25.0	24.9	
31 2-Methyl-2-propanol	59	7.282	7.282	0.000	98	170748	250.0	286.8	
32 Methyl tert-butyl ether	73	7.448	7.448	0.000	95	668729	25.0	25.5	
33 Acrylonitrile	53	7.495	7.495	0.000	99	497615	250.0	258.4	
34 trans-1,2-Dichloroethene	96	7.507	7.507	0.000	98	324361	25.0	27.1	
35 Hexane	57	7.673	7.673	0.000	93	371783	25.0	30.2	
37 Vinyl acetate	43	7.851	7.851	0.000	97	732612	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	7.898	7.898	0.000	96	517754	25.0	27.1	
43 2-Butanone (MEK)	43	8.349	8.349	0.000	100	345982	125.0	124.3	
44 2,2-Dichloropropane	77	8.396	8.396	0.000	75	513071	25.0	29.3	
45 cis-1,2-Dichloroethene	96	8.396	8.396	0.000	81	361541	25.0	27.0	
48 Chlorobromomethane	128	8.622	8.622	0.000	88	163165	25.0	26.7	
49 Tetrahydrofuran	42	8.634	8.634	0.000	86	85085	50.0	46.1	
50 Chloroform	83	8.634	8.634	0.000	95	562131	25.0	26.5	
51 1,1,1-Trichloroethane	97	8.823	8.812	0.011	97	539857	25.0	29.3	
52 Cyclohexane	56	8.859	8.859	0.000	91	498606	25.0	30.3	
53 Isobutyl alcohol	43	8.871	8.871	0.000	60	210291	625.0	707.0	
54 1,1-Dichloropropene	75	8.930	8.930	0.000	95	421878	25.0	29.4	
55 Carbon tetrachloride	117	8.954	8.954	0.000	96	479131	25.0	30.7	
57 Benzene	78	9.120	9.120	0.000	95	1251423	25.0	28.0	
58 1,2-Dichloroethane	62	9.132	9.132	0.000	98	333428	25.0	24.3	
59 n-Heptane	43	9.155	9.155	0.000	91	343655	25.0	28.2	
62 Trichloroethene	95	9.594	9.594	0.000	95	344700	25.0	28.9	
64 Methylcyclohexane	83	9.748	9.748	0.000	87	557234	25.0	32.8	
65 1,2-Dichloropropane	63	9.796	9.796	0.000	95	283160	25.0	27.7	
66 1,4-Dioxane	88	9.855	9.855	0.000	92	29858	500.0	635.4	
67 Dibromomethane	93	9.926	9.926	0.000	92	152326	25.0	25.3	
68 Dichlorobromomethane	83	9.985	9.986	-0.001	99	400020	25.0	27.3	
69 2-Chloroethyl vinyl ether	63	10.116	10.116	0.000	94	121089	25.0	26.3	
72 cis-1,3-Dichloropropene	75	10.306	10.306	0.000	97	433368	25.0	27.6	
73 4-Methyl-2-pentanone (MIBK)	43	10.353	10.353	0.000	96	753716	125.0	121.2	
74 Toluene	92	10.590	10.590	0.000	98	828737	25.0	27.0	
75 Ethyl methacrylate	69	10.661	10.661	0.000	88	246678	25.0	26.7	
77 trans-1,3-Dichloropropene	75	10.721	10.721	0.000	92	366979	25.0	26.1	
79 1,1,2-Trichloroethane	83	10.899	10.899	0.000	93	176353	25.0	25.2	
80 2-Hexanone	43	10.993	10.994	-0.001	95	551606	125.0	123.7	
81 Tetrachloroethene	166	11.041	11.041	0.000	98	403066	25.0	29.4	
82 1,3-Dichloropropane	76	11.041	11.041	0.000	90	357317	25.0	24.6	
83 Chlorodibromomethane	129	11.266	11.266	0.000	90	285654	25.0	27.8	
84 Ethylene Dibromide	107	11.397	11.397	0.000	99	217375	25.0	26.1	
87 Chlorobenzene	112	11.741	11.741	0.000	97	964065	25.0	26.5	
88 Ethylbenzene	91	11.752	11.752	0.000	98	1624968	25.0	27.2	
89 1,1,1,2-Tetrachloroethane	131	11.776	11.776	0.000	94	349671	25.0	27.0	
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	97	646776	25.0	28.3	
91 o-Xylene	106	12.179	12.179	0.000	95	638385	25.0	27.9	
92 Styrene	104	12.179	12.179	0.000	93	1040465	25.0	27.9	
94 Isopropylbenzene	105	12.440	12.440	0.000	96	1694813	25.0	27.6	
95 Bromoform	173	12.452	12.452	0.000	44	157407	25.0	32.8	
97 1,1,2,2-Tetrachloroethane	83	12.725	12.725	0.000	95	242253	25.0	25.0	
98 trans-1,4-Dichloro-2-buten	53	12.749	12.749	0.000	89	42120	25.0	17.9	
99 N-Propylbenzene	91	12.796	12.796	0.000	99	1921886	25.0	27.1	
100 1,2,3-Trichloropropane	110	12.796	12.796	0.000	78	78365	25.0	24.6	
101 Bromobenzene	156	12.843	12.843	0.000	84	423398	25.0	26.7	
102 1,3,5-Trimethylbenzene	105	12.915	12.915	0.000	70	1427731	25.0	27.3	a
103 2-Chlorotoluene	126	12.950	12.962	-0.012	98	415883	25.0	26.6	
105 4-Chlorotoluene	126	13.045	13.045	0.000	97	427813	25.0	26.1	
106 tert-Butylbenzene	134	13.247	13.247	0.000	91	329490	25.0	28.1	
107 1,2,4-Trimethylbenzene	105	13.282	13.282	0.000	95	1482567	25.0	26.4	
109 sec-Butylbenzene	105	13.436	13.436	0.000	94	1774068	25.0	28.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	13.531	13.531	0.000	97	1610887	25.0	28.0	
111 1,3-Dichlorobenzene	146	13.662	13.662	0.000	97	868058	25.0	26.6	
113 1,4-Dichlorobenzene	146	13.733	13.733	0.000	95	874137	25.0	26.0	
115 n-Butylbenzene	91	13.946	13.946	0.000	98	1334987	25.0	26.9	
116 1,2-Dichlorobenzene	146	14.148	14.148	0.000	99	773154	25.0	26.1	
117 1,2-Dibromo-3-Chloropropan	75	15.002	15.002	0.000	89	45879	25.0	23.9	
119 1,2,4-Trichlorobenzene	180	16.045	16.045	0.000	95	549129	25.0	26.1	
120 Hexachlorobutadiene	225	16.164	16.164	0.000	98	247766	25.0	29.2	
121 Naphthalene	128	16.460	16.460	0.000	96	1008985	25.0	27.0	
122 1,2,3-Trichlorobenzene	180	16.828	16.828	0.000	97	475579	25.0	26.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00124

Amount Added: 12.50

Units: uL

GAS CORP mix_00278

Amount Added: 12.50

Units: uL

C_8260_IS_00110

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00126

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20180426-71016.b\\C4976.D

Injection Date: 26-Apr-2018 21:23:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

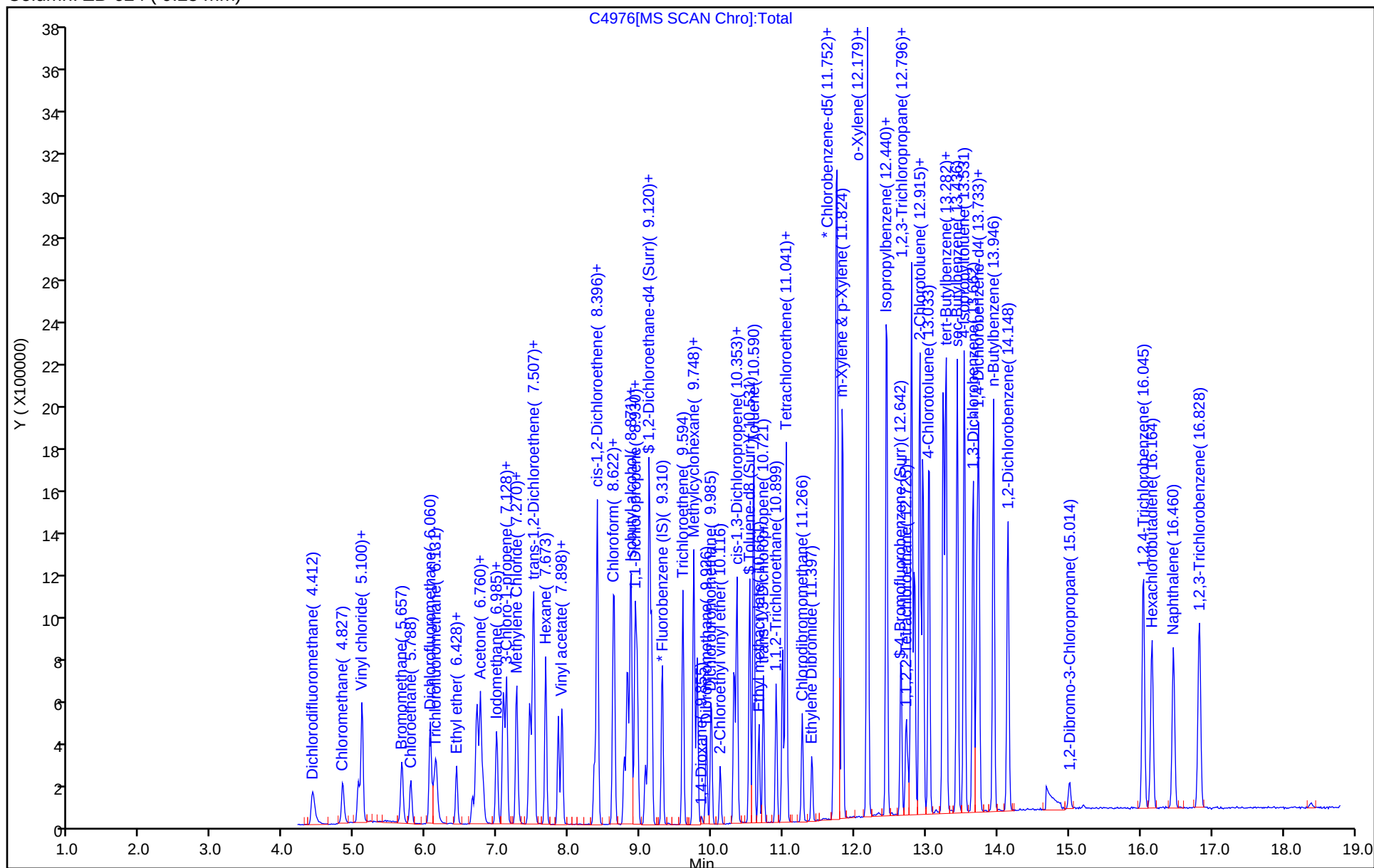
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-07 MS</u>	Lab Sample ID: <u>480-134358-6 MS</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4944.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/17/2018 13:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 05:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>20</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1330		20	8.2
100-41-4	Ethylbenzene	1860		20	15
108-88-3	Toluene	618		20	10
1330-20-7	Xylenes, Total	2000		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4944.D
 Lims ID: 480-134358-E-6 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 26-Apr-2018 05:54:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-134358-e-6 ms
 Misc. Info.: 480-0070975-024
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:36:38 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 14:36:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	133258	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	82	315670	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	95	347263	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	93	199542	25.0	27.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.073	9.061	0.012	99	90880	25.0	26.4	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	807308	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	264756	25.0	24.9	
57 Benzene	78	9.120	9.132	0.000	96	2963908	25.0	66.4	
74 Toluene	92	10.590	10.591	0.000	99	985966	25.0	30.9	
88 Ethylbenzene	91	11.753	11.752	0.000	98	5754897	25.0	92.8	
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	97	1195025	25.0	50.3	
91 o-Xylene	106	12.179	12.179	-0.001	97	1181260	25.0	49.7	
S 124 Xylenes, Total	1				0			100.1	

Reagents:

8260 CORP mix_00124	Amount Added: 12.50	Units: uL	
GAS CORP mix_00278	Amount Added: 12.50	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4944.D

Injection Date: 26-Apr-2018 05:54:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134358-E-6 MS

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

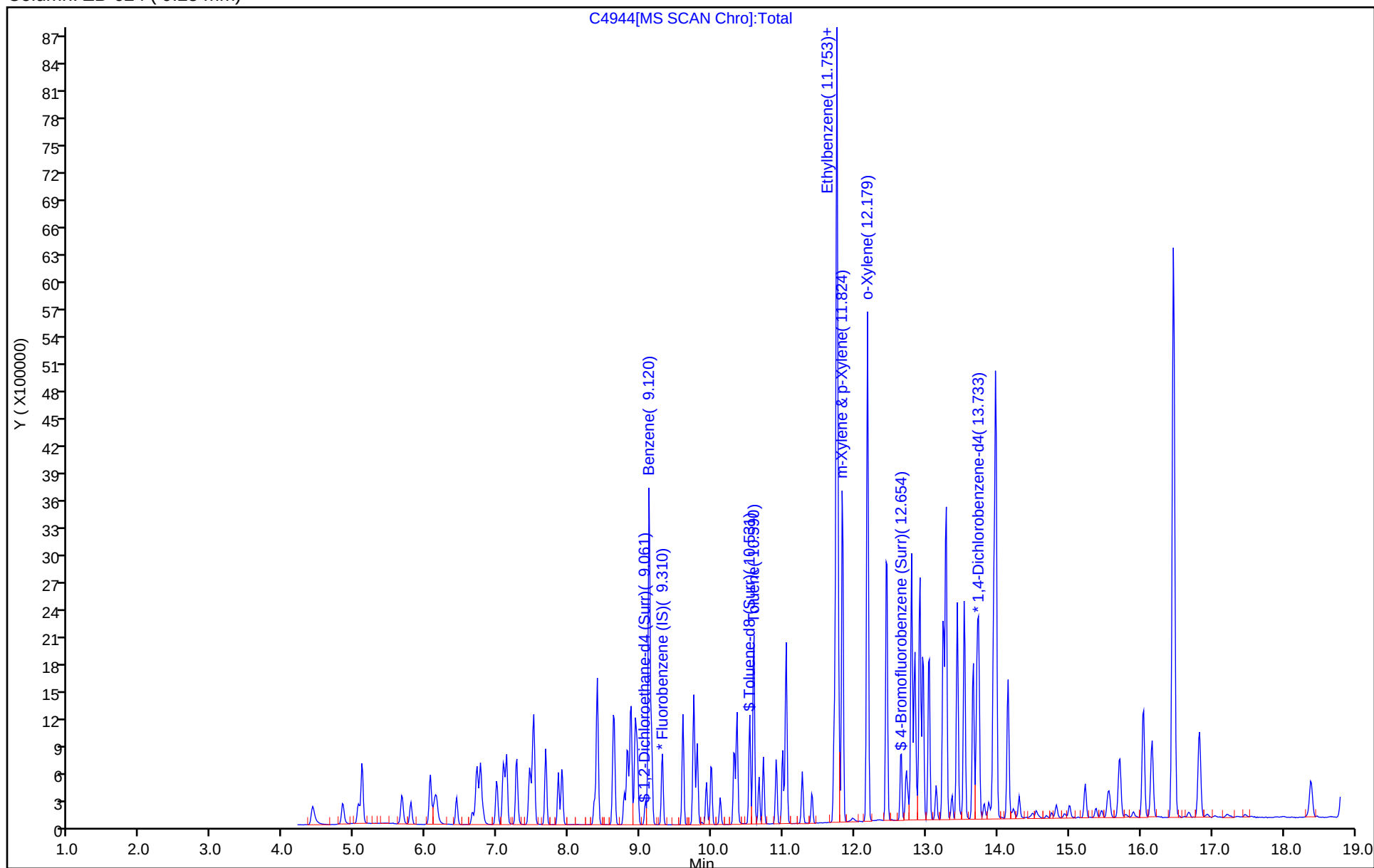
Dil. Factor: 20.0000

ALS Bottle#: 23

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-07 MSD</u>	Lab Sample ID: <u>480-134358-6 MSD</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>C4945.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/17/2018 13:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>04/26/2018 06:20</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>20</u>
Soil Extract Vol.: <u></u>	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>410900</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1220		20	8.2
100-41-4	Ethylbenzene	1830		20	15
108-88-3	Toluene	604		20	10
1330-20-7	Xylenes, Total	1970		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4945.D
 Lims ID: 480-134358-E-6 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 26-Apr-2018 06:20:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-134358-e-6 msd
 Misc. Info.: 480-0070975-025
 Operator ID: KN Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Apr-2018 14:36:38 Calib Date: 09-Apr-2018 22:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20180409-70509.b\C4189.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: reiler

Date: 26-Apr-2018 14:36:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.310	9.298	0.012	99	139804	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.717	11.705	0.012	83	309678	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.709	13.709	0.000	95	345191	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.776	8.764	0.012	93	200346	25.0	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.072	9.061	0.011	98	87914	25.0	24.3	
\$ 5 Toluene-d8 (Surr)	98	10.531	10.531	0.000	93	804658	25.0	25.8	
\$ 6 4-Bromofluorobenzene (Surr	174	12.654	12.654	0.000	0	265557	25.0	25.5	
57 Benzene	78	9.120	9.132	0.000	95	2866956	25.0	61.2	
74 Toluene	92	10.590	10.591	0.000	99	945476	25.0	30.2	
88 Ethylbenzene	91	11.752	11.752	-0.001	98	5568375	25.0	91.5	
90 m-Xylene & p-Xylene	106	11.824	11.824	0.000	97	1153603	25.0	49.5	
91 o-Xylene	106	12.179	12.179	-0.001	93	1134480	25.0	48.7	
S 124 Xylenes, Total	1				0			98.2	

Reagents:

8260 CORP mix_00124	Amount Added: 12.50	Units: uL	
GAS CORP mix_00278	Amount Added: 12.50	Units: uL	
C_8260_IS_00110	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00126	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20180425-70975.b\C4945.D

Injection Date: 26-Apr-2018 06:20:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: 480-134358-E-6 MSD

Worklist Smp#: 25

Client ID:

Purge Vol: 5.000 mL

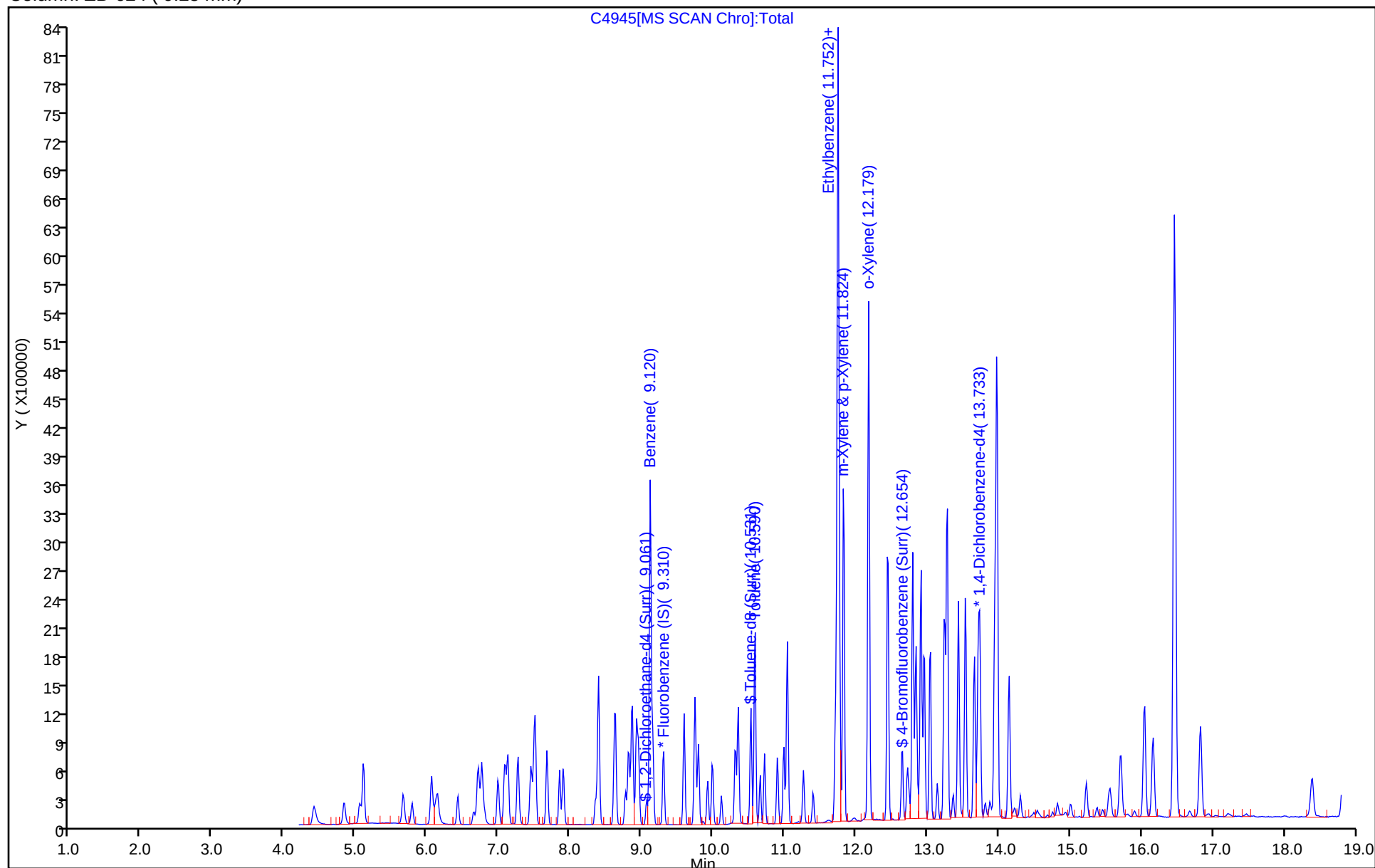
Dil. Factor: 20.0000

ALS Bottle#: 24

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973CStart Date: 04/09/2018 13:37Analysis Batch Number: 407833End Date: 04/09/2018 23:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-407833/2		04/09/2018 13:37	1	C4169.D	ZB-624 (60) 0.25 (mm)
IC 480-407833/4		04/09/2018 14:30	1	C4171.D	ZB-624 (60) 0.25 (mm)
IC 480-407833/5		04/09/2018 14:56	1	C4172.D	ZB-624 (60) 0.25 (mm)
IC 480-407833/6		04/09/2018 15:21	1	C4173.D	ZB-624 (60) 0.25 (mm)
IC 480-407833/7		04/09/2018 15:46	1	C4174.D	ZB-624 (60) 0.25 (mm)
IC 480-407833/8		04/09/2018 16:11	1	C4175.D	ZB-624 (60) 0.25 (mm)
ICIS 480-407833/9		04/09/2018 16:37	1	C4176.D	ZB-624 (60) 0.25 (mm)
IC 480-407833/10		04/09/2018 17:01	1	C4177.D	ZB-624 (60) 0.25 (mm)
IC 480-407833/11		04/09/2018 17:27	1	C4178.D	ZB-624 (60) 0.25 (mm)
MDLV 480-407833/13		04/09/2018 18:17	1		ZB-624 (60) 0.25 (mm)
MDLV 480-407833/14		04/09/2018 18:43	1		ZB-624 (60) 0.25 (mm)
IC 480-407833/16		04/09/2018 19:33	1		ZB-624 (60) 0.25 (mm)
IC 480-407833/17		04/09/2018 19:59	1		ZB-624 (60) 0.25 (mm)
IC 480-407833/18		04/09/2018 20:24	1		ZB-624 (60) 0.25 (mm)
IC 480-407833/19		04/09/2018 20:49	1		ZB-624 (60) 0.25 (mm)
IC 480-407833/20		04/09/2018 21:15	1		ZB-624 (60) 0.25 (mm)
IC 480-407833/21		04/09/2018 21:40	1		ZB-624 (60) 0.25 (mm)
IC 480-407833/22		04/09/2018 22:05	1		ZB-624 (60) 0.25 (mm)
MDLV 480-407833/24		04/09/2018 22:56	1		ZB-624 (60) 0.25 (mm)
ICV 480-407833/25		04/09/2018 23:21	1		ZB-624 (60) 0.25 (mm)
ICV 480-407833/26		04/09/2018 23:46	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973CStart Date: 04/25/2018 19:54Analysis Batch Number: 410900End Date: 04/26/2018 06:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-410900/1		04/25/2018 19:54	1	C4922.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-410900/2		04/25/2018 20:24	1	C4923.D	ZB-624 (60) 0.25 (mm)
CCV 480-410900/3		04/25/2018 20:49	1		ZB-624 (60) 0.25 (mm)
LCS 480-410900/4		04/25/2018 21:14	1	C4925.D	ZB-624 (60) 0.25 (mm)
RL 480-410900/5		04/25/2018 22:04	1		ZB-624 (60) 0.25 (mm)
MB 480-410900/6		04/25/2018 22:29	1	C4927.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/25/2018 23:09	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/25/2018 23:34	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 00:00	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 00:25	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 00:51	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 01:16	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 01:41	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 02:06	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 02:32	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 02:57	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 03:22	1		ZB-624 (60) 0.25 (mm)
480-134358-1		04/26/2018 03:48	1	C4939.D	ZB-624 (60) 0.25 (mm)
480-134358-2		04/26/2018 04:13	1	C4940.D	ZB-624 (60) 0.25 (mm)
480-134358-6		04/26/2018 04:39	20	C4941.D	ZB-624 (60) 0.25 (mm)
480-134358-7		04/26/2018 05:04	1	C4942.D	ZB-624 (60) 0.25 (mm)
480-134358-8		04/26/2018 05:29	1	C4943.D	ZB-624 (60) 0.25 (mm)
480-134358-6 MS		04/26/2018 05:54	20	C4944.D	ZB-624 (60) 0.25 (mm)
480-134358-6 MSD		04/26/2018 06:20	20	C4945.D	ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973CStart Date: 04/26/2018 08:49Analysis Batch Number: 410957End Date: 04/26/2018 19:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-410957/2		04/26/2018 08:49	1	C4947.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-410957/3		04/26/2018 09:17	1	C4948.D	ZB-624 (60) 0.25 (mm)
CCV 480-410957/4		04/26/2018 09:42	1		ZB-624 (60) 0.25 (mm)
LCS 480-410957/5		04/26/2018 10:08	1	C4950.D	ZB-624 (60) 0.25 (mm)
RL 480-410957/6		04/26/2018 10:33	1		ZB-624 (60) 0.25 (mm)
MB 480-410957/7		04/26/2018 10:58	1	C4952.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 11:37	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 12:03	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 12:28	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 12:54	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 13:19	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 13:44	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 14:09	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 14:34	1		ZB-624 (60) 0.25 (mm)
480-134444-1		04/26/2018 14:59	4	C4961.D	ZB-624 (60) 0.25 (mm)
480-134444-4		04/26/2018 15:24	4	C4962.D	ZB-624 (60) 0.25 (mm)
480-134444-5		04/26/2018 15:49	100	C4963.D	ZB-624 (60) 0.25 (mm)
480-134444-6		04/26/2018 16:15	1	C4964.D	ZB-624 (60) 0.25 (mm)
480-134444-7		04/26/2018 16:40	1	C4965.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 17:05	100		ZB-624 (60) 0.25 (mm)
480-134444-12		04/26/2018 17:31	1	C4967.D	ZB-624 (60) 0.25 (mm)
480-134444-14		04/26/2018 17:56	1	C4968.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 18:21	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 18:46	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 19:12	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 19:37	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973CStart Date: 04/26/2018 20:02Analysis Batch Number: 411190End Date: 04/27/2018 07:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-411190/1		04/26/2018 20:02	1	C4973.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-411190/2		04/26/2018 20:32	1	C4974.D	ZB-624 (60) 0.25 (mm)
CCV 480-411190/3		04/26/2018 20:58	1		ZB-624 (60) 0.25 (mm)
LCS 480-411190/4		04/26/2018 21:23	1	C4976.D	ZB-624 (60) 0.25 (mm)
RL 480-411190/5		04/26/2018 22:02	1		ZB-624 (60) 0.25 (mm)
MB 480-411190/6		04/26/2018 22:27	1	C4978.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 23:09	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 23:34	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/26/2018 23:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 00:24	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 00:49	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 01:14	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 01:39	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 02:04	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 02:29	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 02:54	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 03:19	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 03:44	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 04:09	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 04:34	1		ZB-624 (60) 0.25 (mm)
480-134444-11		04/27/2018 04:59	1	C4993.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 05:24	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 05:49	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 06:14	1000		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 06:39	1000		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/27/2018 07:04	1000		ZB-624 (60) 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410900 Batch Start Date: 04/25/18 19:54 Batch Analyst: Reile, Rebecca SBatch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00124	BFB_WRK 00069	C_8260_IS 00110
BFB 480-410900/1		8260C		1 uL	1 uL			1 uL	
CCVIS 480-410900/2		8260C		5 mL	5 mL		12.5 uL		1 uL
LCS 480-410900/4		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-410900/6		8260C		5 mL	5 mL				1 uL
480-134358-E-1	MW-13	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134358-E-2	MW-23	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134358-E-6	MW-07	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134358-E-7	MW-10	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134358-A-8	TB	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134358-E-6 MS	MW-07	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL
480-134358-E-6 MSD	MW-07	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00126	GAS CORP mix 00278				
BFB 480-410900/1		8260C							
CCVIS 480-410900/2		8260C		1 uL	12.5 uL				
LCS 480-410900/4		8260C		1 uL	12.5 uL				
MB 480-410900/6		8260C		1 uL					
480-134358-E-1	MW-13	8260C	T	1 uL					
480-134358-E-2	MW-23	8260C	T	1 uL					
480-134358-E-6	MW-07	8260C	T	1 uL					
480-134358-E-7	MW-10	8260C	T	1 uL					
480-134358-A-8	TB	8260C	T	1 uL					
480-134358-E-6 MS	MW-07	8260C	T	1 uL	12.5 uL				
480-134358-E-6 MSD	MW-07	8260C	T	1 uL	12.5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

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GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410900 Batch Start Date: 04/25/18 19:54 Batch Analyst: Reile, Rebecca SBatch Method: 8260C Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410957 Batch Start Date: 04/26/18 08:49 Batch Analyst: Nowak, Kate-Lynn MBatch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00124	BFB_WRK 00069	C_8260_IS 00110
BFB 480-410957/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-410957/3		8260C		5 mL	5 mL		12.5 uL		1 uL
LCS 480-410957/5		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-410957/7		8260C		5 mL	5 mL				1 uL
480-134444-E-1	MW-17	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134444-F-4	MW-11A	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134444-C-5	MW-19	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134444-F-6	SW-01	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134444-F-7	SW-02	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134444-E-12	EB	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-134444-A-14	TB	8260C	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00126	GAS CORP mix 00278	AnalysisComment			
BFB 480-410957/2		8260C							
CCVIS 480-410957/3		8260C		1 uL	12.5 uL				
LCS 480-410957/5		8260C		1 uL	12.5 uL				
MB 480-410957/7		8260C		1 uL					
480-134444-E-1	MW-17	8260C	T	1 uL		Foam			
480-134444-F-4	MW-11A	8260C	T	1 uL		Foam			
480-134444-C-5	MW-19	8260C	T	1 uL		Targets			
480-134444-F-6	SW-01	8260C	T	1 uL					
480-134444-F-7	SW-02	8260C	T	1 uL					
480-134444-E-12	EB	8260C	T	1 uL					
480-134444-A-14	TB	8260C	T	1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410957 Batch Start Date: 04/26/18 08:49 Batch Analyst: Nowak, Kate-Lynn MBatch Method: 8260C Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Batch Number: 411190 Batch Start Date: 04/26/18 20:02 Batch Analyst: Reile, Rebecca S

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00124	BFB_WRK 00069	C_8260_IS 00110
BFB 480-411190/1		8260C		1 uL	1 uL			1 uL	
CCVIS 480-411190/2		8260C		5 mL	5 mL		12.5 uL		1 uL
LCS 480-411190/4		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-411190/6		8260C		5 mL	5 mL				1 uL
480-134444-F-11	Duplicate	8260C	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00126	GAS CORP mix 00278				
BFB 480-411190/1		8260C							
CCVIS 480-411190/2		8260C		1 uL	12.5 uL				
LCS 480-411190/4		8260C		1 uL	12.5 uL				
MB 480-411190/6		8260C		1 uL					
480-134444-F-11	Duplicate	8260C	T	1 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

Page 1 of 1

Method 8270D Low Level PAH

Polynuclear Aromatic Hydrocarbons by
Method 8270D Low Level

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Matrix: Water Level: Low
 GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHd14 #
MW-13	480-134358-1	78	90	89
MW-23	480-134358-2	69	81	92
MW-07	480-134358-6	76	105	83
MW-10	480-134358-7	82	95	103
MW-17	480-134444-1	84	94	85
MW-11A	480-134444-4	83	90	79
MW-19	480-134444-5	107	99	70
SW-01	480-134444-6	89	98	87
SW-02	480-134444-7	86	94	87
Duplicate	480-134444-11	74	83	86
EB	480-134444-12	86	96	101
	MB 480-409528/1-A	86	98	104
	MB 480-409870/1-A	94	99	109
	LCS 480-409528/2-A	86	90	102
	LCS 480-409870/2-A	97	96	104
	LCSD 480-409528/3-A	88	90	101
	LCSD 480-409870/3-A	97	98	103

	<u>QC LIMITS</u>
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TPHd14 = p-Terphenyl-d14	24-136

Column to be used to flag recovery values

FORM II 8270D_LL_PAH

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Matrix: Water Level: Low Lab File ID: Y016992.D
 Lab ID: LCS 480-409528/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2-Methylnaphthalene	32.0	26.9	84	48-120	
Acenaphthene	32.0	28.4	89	60-120	
Acenaphthylene	32.0	29.4	92	63-120	
Anthracene	32.0	30.8	96	69-131	
Benzo (a) anthracene	32.0	32.6	102	62-142	
Benzo (a) pyrene	32.0	31.7	99	46-156	
Benzo (b) fluoranthene	32.0	31.3	98	50-149	
Benzo (g, h, i) perylene	32.0	32.9	103	34-189	
Benzo (k) fluoranthene	32.0	29.6	92	47-147	
Chrysene	32.0	32.4	101	69-140	
Dibenz (a, h) anthracene	32.0	33.0	103	35-176	
Fluoranthene	32.0	32.3	101	67-133	
Fluorene	32.0	29.7	93	66-129	
Indeno (1, 2, 3-cd) pyrene	32.0	33.2	104	57-161	
Naphthalene	32.0	25.8	81	48-120	
Phenanthrene	32.0	30.9	97	67-130	
Pyrene	32.0	32.4	101	58-136	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Matrix: Water Level: Low Lab File ID: W3504.D
 Lab ID: LCS 480-409870/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2-Methylnaphthalene	32.0	26.8	84	48-120	
Acenaphthene	32.0	27.4	86	60-120	
Acenaphthylene	32.0	28.8	90	63-120	
Anthracene	32.0	30.8	96	69-131	
Benzo (a) anthracene	32.0	30.9	97	62-142	
Benzo (a) pyrene	32.0	29.7	93	46-156	
Benzo (b) fluoranthene	32.0	30.8	96	50-149	
Benzo (g, h, i) perylene	32.0	31.1	97	34-189	
Benzo (k) fluoranthene	32.0	31.1	97	47-147	
Chrysene	32.0	31.0	97	69-140	
Dibenz (a, h) anthracene	32.0	32.4	101	35-176	
Fluoranthene	32.0	31.5	99	67-133	
Fluorene	32.0	28.9	90	66-129	
Indeno (1, 2, 3-cd) pyrene	32.0	32.0	100	57-161	
Naphthalene	32.0	27.2	85	48-120	
Phenanthrene	32.0	30.7	96	67-130	
Pyrene	32.0	30.6	96	58-136	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Matrix: Water Level: Low Lab File ID: Y016993.D
 Lab ID: LCSD 480-409528/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-Methylnaphthalene	32.0	27.3	85	1	21	48-120	
Acenaphthene	32.0	29.0	91	2	24	60-120	
Acenaphthylene	32.0	29.1	91	1	18	63-120	
Anthracene	32.0	31.9	100	3	15	69-131	
Benzo (a) anthracene	32.0	32.3	101	1	15	62-142	
Benzo (a) pyrene	32.0	31.6	99	0	15	46-156	
Benzo (b) fluoranthene	32.0	31.3	98	0	15	50-149	
Benzo (g, h, i) perylene	32.0	33.1	104	1	15	34-189	
Benzo (k) fluoranthene	32.0	30.2	94	2	22	47-147	
Chrysene	32.0	32.0	100	1	15	69-140	
Dibenz (a, h) anthracene	32.0	33.2	104	1	15	35-176	
Fluoranthene	32.0	34.1	106	5	15	67-133	
Fluorene	32.0	30.1	94	1	15	66-129	
Indeno (1, 2, 3-cd) pyrene	32.0	33.2	104	0	15	57-161	
Naphthalene	32.0	26.1	81	1	29	48-120	
Phenanthrene	32.0	31.7	99	2	15	67-130	
Pyrene	32.0	31.3	98	3	25	58-136	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Matrix: Water Level: Low Lab File ID: W3505.D
 Lab ID: LCSD 480-409870/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-Methylnaphthalene	32.0	26.6	83	1	21	48-120	
Acenaphthene	32.0	27.9	87	2	24	60-120	
Acenaphthylene	32.0	29.4	92	2	18	63-120	
Anthracene	32.0	31.0	97	1	15	69-131	
Benzo (a) anthracene	32.0	31.4	98	2	15	62-142	
Benzo (a) pyrene	32.0	29.7	93	0	15	46-156	
Benzo (b) fluoranthene	32.0	31.4	98	2	15	50-149	
Benzo (g, h, i) perylene	32.0	30.6	96	2	15	34-189	
Benzo (k) fluoranthene	32.0	31.2	97	0	22	47-147	
Chrysene	32.0	30.4	95	2	15	69-140	
Dibenz (a, h) anthracene	32.0	32.3	101	1	15	35-176	
Fluoranthene	32.0	31.8	99	1	15	67-133	
Fluorene	32.0	29.4	92	2	15	66-129	
Indeno (1, 2, 3-cd) pyrene	32.0	31.6	99	1	15	57-161	
Naphthalene	32.0	27.3	85	0	29	48-120	
Phenanthrene	32.0	30.1	94	2	15	67-130	
Pyrene	32.0	30.8	96	0	25	58-136	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: Y016991.D Lab Sample ID: MB 480-409528/1-A
Matrix: Water Date Extracted: 04/18/2018 14:24
Instrument ID: HP5973Y Date Analyzed: 04/20/2018 06:39
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-409528/2-A	Y016992.D	04/20/2018 07:08
	LCSD 480-409528/3-A	Y016993.D	04/20/2018 07:37
MW-13	480-134358-1	Y016994.D	04/20/2018 08:06
MW-23	480-134358-2	Y016995.D	04/20/2018 08:34
MW-07	480-134358-6	Y016996.D	04/20/2018 09:03
MW-10	480-134358-7	Y016997.D	04/20/2018 09:32

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: W3503.D Lab Sample ID: MB 480-409870/1-A
Matrix: Water Date Extracted: 04/20/2018 08:09
Instrument ID: HP5973W Date Analyzed: 04/21/2018 16:15
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-409870/2-A	W3504.D	04/21/2018 16:44
	LCSD 480-409870/3-A	W3505.D	04/21/2018 17:13
MW-17	480-134444-1	W3518.D	04/21/2018 23:22
MW-11A	480-134444-4	W3519.D	04/21/2018 23:51
MW-19	480-134444-5	W3520.D	04/22/2018 00:19
SW-01	480-134444-6	W3521.D	04/22/2018 00:47
SW-02	480-134444-7	W3522.D	04/22/2018 01:15
EB	480-134444-12	W3524.D	04/22/2018 02:12
Duplicate	480-134444-11	W3532.D	04/22/2018 14:35

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: W3499.D DFTPP Injection Date: 04/21/2018
Instrument ID: HP5973W DFTPP Injection Time: 14:19
Analysis Batch No.: 410140

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	39.9
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	37.2
70	Less than 2% of mass 69	0.2 (0.6) 1
127	10-80% of Base Peak	49.4
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.6
275	10-60% of Base Peak	22.3
365	Greater than 1% of mass 198	2.8
441	present but less than 24% of mass 442	12.2 (17.1) 2
442	Greater than 50% of mass 198	71.4
443	15-24% of mass 442	14.0 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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 480-410140/4	W3500.D	04/21/2018	14:47
	MB 480-409870/1-A	W3503.D	04/21/2018	16:15
	LCS 480-409870/2-A	W3504.D	04/21/2018	16:44
	LCSD 480-409870/3-A	W3505.D	04/21/2018	17:13
MW-17	480-134444-1	W3518.D	04/21/2018	23:22
MW-11A	480-134444-4	W3519.D	04/21/2018	23:51
MW-19	480-134444-5	W3520.D	04/22/2018	00:19
SW-01	480-134444-6	W3521.D	04/22/2018	00:47
SW-02	480-134444-7	W3522.D	04/22/2018	01:15
EB	480-134444-12	W3524.D	04/22/2018	02:12

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: W3526.D DFTPP Injection Date: 04/22/2018
Instrument ID: HP5973W DFTPP Injection Time: 11:46
Analysis Batch No.: 410190

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	37.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	36.6
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	48.2
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.8
275	10-60% of Base Peak	23.7
365	Greater than 1% of mass 198	2.8
441	present but less than 24% of mass 442	13.7 (16.9) 2
442	Greater than 50% of mass 198	81.0
443	15-24% of mass 442	15.4 (19.0) 2

1-Value is % mass 69

2-Value is % mass 442

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 480-410190/3	W3527.D	04/22/2018	12:14
Duplicate	480-134444-11	W3532.D	04/22/2018	14:35

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: Y016352.D DFTPP Injection Date: 03/08/2018
Instrument ID: HP5973Y DFTPP Injection Time: 12:36
Analysis Batch No.: 403125

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	41.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	40.5
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	44.6
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.9
275	10-60% of Base Peak	22.3
365	Greater than 1% of mass 198	2.5
441	present but less than 24% of mass 442	9.8 (16.1) 2
442	Greater than 50% of mass 198	60.5
443	15-24% of mass 442	11.4 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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 480-403125/5	Y016355.D	03/08/2018	15:21
	IC 480-403125/6	Y016356.D	03/08/2018	15:49
	IC 480-403125/7	Y016357.D	03/08/2018	16:18
	IC 480-403125/8	Y016358.D	03/08/2018	16:47
	ICIS 480-403125/9	Y016359.D	03/08/2018	17:16
	IC 480-403125/10	Y016360.D	03/08/2018	17:45
	IC 480-403125/11	Y016361.D	03/08/2018	18:14
	IC 480-403125/12	Y016362.D	03/08/2018	18:44

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab File ID: Y016979.D DFTPP Injection Date: 04/20/2018
Instrument ID: HP5973Y DFTPP Injection Time: 00:51
Analysis Batch No.: 409652

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	36.9
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	36.5
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	45.4
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.2
275	10-60% of Base Peak	24.2
365	Greater than 1% of mass 198	2.9
441	present but less than 24% of mass 442	10.8 (16.0) 2
442	Greater than 50% of mass 198	67.8
443	15-24% of mass 442	13.0 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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 480-409652/3	Y016980.D	04/20/2018	01:20
	MB 480-409528/1-A	Y016991.D	04/20/2018	06:39
	LCS 480-409528/2-A	Y016992.D	04/20/2018	07:08
	LCSD 480-409528/3-A	Y016993.D	04/20/2018	07:37
MW-13	480-134358-1	Y016994.D	04/20/2018	08:06
MW-23	480-134358-2	Y016995.D	04/20/2018	08:34
MW-07	480-134358-6	Y016996.D	04/20/2018	09:03
MW-10	480-134358-7	Y016997.D	04/20/2018	09:32

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Sample No.: ICIS 480-409315/7 Date Analyzed: 04/17/2018 19:37
Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25 (mm)
Lab File ID (Standard): W3482.D Heated Purge: (Y/N) N
Calibration ID: 33582

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		512709	6.40	2059514	7.48	973727	8.96
UPPER LIMIT		1025418	6.90	4119028	7.98	1947454	9.46
LOWER LIMIT		256355	5.90	1029757	6.98	486864	8.46
LAB SAMPLE ID		CLIENT SAMPLE ID					
CCVIS 480-410140/4		468478	6.40	1848795	7.48	887413	8.96
CCVIS 480-410190/3		466185	6.39	1822577	7.48	854054	8.96

DCBd4 = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: ICIS 480-409315/7 Date Analyzed: 04/17/2018 19:37
 Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): W3482.D Heated Purge: (Y/N) N
 Calibration ID: 33582

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1626088	10.21	1311061	12.83	1272940	14.97
UPPER LIMIT	3252176	10.71	2622122	13.33	2545880	15.47
LOWER LIMIT	813044	9.71	655531	12.33	636470	14.47
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-410140/4		1481540	10.21	1228405	12.83	1216500 14.97
CCVIS 480-410190/3		1404685	10.21	1147910	12.82	1123710 14.97

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-410140/4 Date Analyzed: 04/21/2018 14:47
 Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): W3500.D Heated Purge: (Y/N) N
 Calibration ID: 33582

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		468478	6.40	1848795	7.48	887413	8.96
UPPER LIMIT		936956	6.90	3697590	7.98	1774826	9.46
LOWER LIMIT		234239	5.90	924398	6.98	443707	8.46
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 480-409870/1-A		440431	6.40	1705606	7.48	824318	8.96
LCS 480-409870/2-A		457997	6.40	1828040	7.48	884291	8.96
LCSD 480-409870/3-A		448243	6.40	1800313	7.48	854296	8.96
480-134444-1	MW-17	445856	6.40	1727638	7.48	818773	8.96
480-134444-4	MW-11A	468452	6.40	1801164	7.48	866697	8.96
480-134444-5	MW-19	449013	6.40	1756132	7.48	827758	8.96
480-134444-6	SW-01	475020	6.40	1828166	7.48	873470	8.96
480-134444-7	SW-02	464619	6.40	1796426	7.48	859374	8.96
480-134444-12	EB	460364	6.40	1815425	7.48	867661	8.96

DCBd4 = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-410140/4 Date Analyzed: 04/21/2018 14:47
 Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): W3500.D Heated Purge: (Y/N) N
 Calibration ID: 33582

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1481540	10.21	1228405	12.83	1216500	14.97
UPPER LIMIT	2963080	10.71	2456810	13.33	2433000	15.47
LOWER LIMIT	740770	9.71	614203	12.33	608250	14.47
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 480-409870/1-A		1351641	10.21	1097646	12.82	1121866 14.97
LCS 480-409870/2-A		1434106	10.21	1182307	12.83	1175324 14.97
LCSD 480-409870/3-A		1447179	10.21	1190647	12.83	1184579 14.97
480-134444-1	MW-17	1338483	10.21	1113471	12.82	1167912 14.96
480-134444-4	MW-11A	1435430	10.21	1172135	12.82	1223771 14.97
480-134444-5	MW-19	1323478	10.21	1122604	12.82	1164790 14.96
480-134444-6	SW-01	1430715	10.21	1186032	12.82	1223966 14.96
480-134444-7	SW-02	1426435	10.21	1171166	12.82	1218823 14.96
480-134444-12	EB	1445736	10.21	1165855	12.82	1208650 14.96

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-410190/3 Date Analyzed: 04/22/2018 12:14
 Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): W3527.D Heated Purge: (Y/N) N
 Calibration ID: 33582

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	466185	6.39	1822577	7.48	854054	8.96
UPPER LIMIT	932370	6.89	3645154	7.98	1708108	9.46
LOWER LIMIT	233093	5.89	911289	6.98	427027	8.46
LAB SAMPLE ID	CLIENT SAMPLE ID					
480-134444-11	Duplicate		474219	6.39	1812596	7.48
					873696	8.96

DCBd4 = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-410190/3 Date Analyzed: 04/22/2018 12:14
 Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): W3527.D Heated Purge: (Y/N) N
 Calibration ID: 33582

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1404685	10.21	1147910	12.82	1123710	14.97
UPPER LIMIT	2809370	10.71	2295820	13.32	2247420	15.47
LOWER LIMIT	702343	9.71	573955	12.32	561855	14.47
LAB SAMPLE ID	CLIENT SAMPLE ID					
480-134444-11	Duplicate		1389187	10.21	1140859	12.82
					1156707	14.97

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: ICIS 480-403125/9 Date Analyzed: 03/08/2018 17:16
 Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): Y016359.D Heated Purge: (Y/N) N
 Calibration ID: 32991

	DCBd4		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	410591	6.69	1569238	7.78	854472	9.28	
UPPER LIMIT	821182	7.19	3138476	8.28	1708944	9.78	
LOWER LIMIT	205296	6.19	784619	7.28	427236	8.78	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-409652/3		447476	6.64	1697165	7.74	955790	9.23

DCBd4 = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: ICIS 480-403125/9 Date Analyzed: 03/08/2018 17:16
 Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): Y016359.D Heated Purge: (Y/N) N
 Calibration ID: 32991

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1591902	10.54	1402631	13.37	1306790	15.67	
UPPER LIMIT	3183804	11.04	2805262	13.87	2613580	16.17	
LOWER LIMIT	795951	10.04	701316	12.87	653395	15.17	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-409652/3		1771213	10.49	1685006	13.29	1651955	15.57

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-409652/3 Date Analyzed: 04/20/2018 01:20
 Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): Y016980.D Heated Purge: (Y/N) N
 Calibration ID: 33151

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	447476	6.64	1697165	7.74	955790	9.23
UPPER LIMIT	894952	7.14	3394330	8.24	1911580	9.73
LOWER LIMIT	223738	6.14	848583	7.24	477895	8.73
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 480-409528/1-A		433145	6.64	1643650	7.73	893897 9.22
LCS 480-409528/2-A		438915	6.64	1671659	7.73	907519 9.22
LCSD 480-409528/3-A		427636	6.64	1634113	7.73	907183 9.22
480-134358-1	MW-13	423340	6.64	1571276	7.73	858763 9.22
480-134358-2	MW-23	421807	6.64	1582508	7.73	863730 9.22
480-134358-6	MW-07	390897	6.64	1468357	7.73	803256 9.23
480-134358-7	MW-10	404027	6.64	1536827	7.73	836778 9.22

DCBd4 = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Sample No.: CCVIS 480-409652/3 Date Analyzed: 04/20/2018 01:20
 Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): Y016980.D Heated Purge: (Y/N) N
 Calibration ID: 33151

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1771213	10.49	1685006	13.29	1651955	15.57
UPPER LIMIT	3542426	10.99	3370012	13.79	3303910	16.07
LOWER LIMIT	885607	9.99	842503	12.79	825978	15.07
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 480-409528/1-A		1642336	10.48	1573975	13.28	1538690 15.56
LCS 480-409528/2-A		1739578	10.49	1612306	13.29	1604108 15.57
LCSD 480-409528/3-A		1682128	10.49	1643891	13.29	1588504 15.57
480-134358-1	MW-13	1627647	10.49	1468254	13.28	1467801 15.57
480-134358-2	MW-23	1619055	10.49	1489058	13.28	1519954 15.57
480-134358-6	MW-07	1489185	10.49	1426055	13.28	1430628 15.57
480-134358-7	MW-10	1550335	10.49	1445033	13.28	1448945 15.57

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-13</u>	Lab Sample ID: <u>480-134358-1</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>Y016994.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/17/2018 10:30</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/18/2018 14:24</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/20/2018 08:06</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>409652</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.50	U	0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50	U	0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.50	U	0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.50	U	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	90		48-120
4165-60-0	Nitrobenzene-d5	78		46-120
1718-51-0	p-Terphenyl-d14	89		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016994.D
 Lims ID: 480-134358-A-1-A
 Client ID: MW-13
 Sample Type: Client
 Inject. Date: 20-Apr-2018 08:06:30 ALS Bottle#: 43 Worklist Smp#: 17
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-017
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:43:18 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:43:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.640	6.640	0.000	95	423340	4.00	
* 2 Naphthalene-d8	136	7.730	7.735	-0.005	99	1571276	4.00	
* 3 Acenaphthene-d10	164	9.221	9.226	-0.005	96	858763	4.00	
* 4 Phenanthrene-d10	188	10.487	10.486	0.001	97	1627647	4.00	
* 5 Chrysene-d12	240	13.281	13.286	-0.005	99	1468254	4.00	
* 6 Perylene-d12	264	15.567	15.567	0.000	98	1467801	4.00	
\$ 9 Nitrobenzene-d5	82	7.105	7.110	-0.005	89	926161	6.23	
\$ 10 2-Fluorobiphenyl	172	8.622	8.622	0.000	99	2313355	7.16	
\$ 12 p-Terphenyl-d14	244	11.908	11.907	0.001	100	2243055	7.10	
74 Naphthalene	128	7.751	7.751	0.000	97	16090	0.0382	
87 2-Methylnaphthalene	142	8.328	8.334	-0.006	93	4533	0.0159	
108 Acenaphthylene	152		9.108				ND	U
110 Acenaphthene	153		9.252				ND	
124 Fluorene	166		9.685				ND	
151 Phenanthrene	178	10.508	10.508	0.000	91	3276	0.007100	
152 Anthracene	178		10.551				ND	U
164 Fluoranthene	202	11.571	11.566	0.005	76	2002	0.004150	
167 Pyrene	202	11.812	11.811	0.001	85	1538	0.003153	
180 Benzo[a]anthracene	228		13.264				ND	
182 Chrysene	228		13.323				ND	
186 Benzo[b]fluoranthene	252		14.931				ND	
187 Benzo[k]fluoranthene	252		14.974				ND	
189 Benzo[a]pyrene	252		15.476				ND	
193 Indeno[1,2,3-cd]pyrene	276		17.511				ND	
194 Dibenzo(a,h)anthracene	278		17.517				ND	
195 Benzo[g,h,i]perylene	276		18.088				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016994.D

Injection Date: 20-Apr-2018 08:06:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: 480-134358-A-1-A

Lab Sample ID: 480-134358-1

Worklist Smp#: 17

Client ID: MW-13

Injection Vol: 2.0 ul

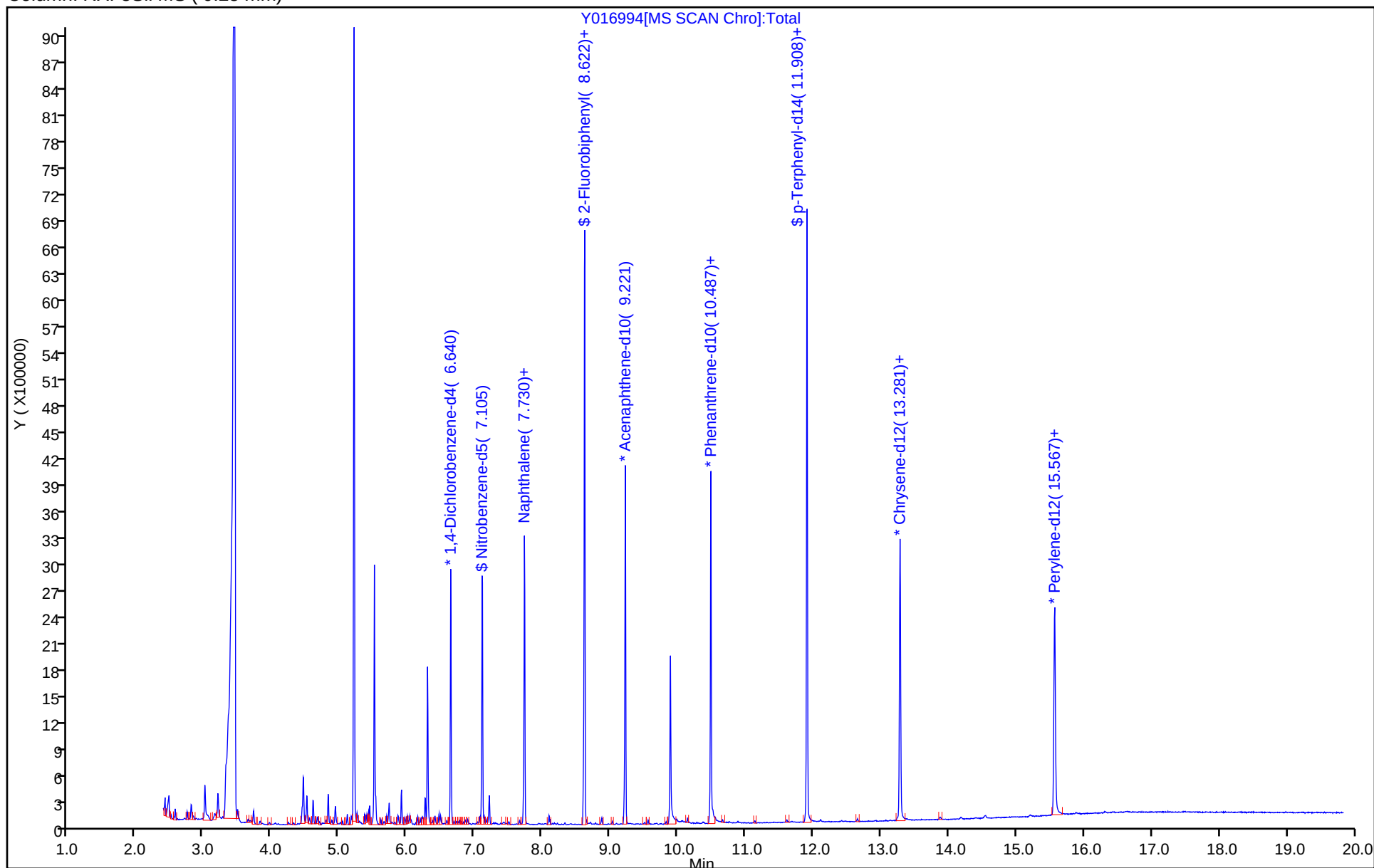
Dil. Factor: 1.0000

ALS Bottle#: 43

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016994.D

Injection Date: 20-Apr-2018 08:06:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-1-A

Lab Sample ID: 480-134358-1

Client ID: MW-13

Operator ID: BS

ALS Bottle#: 43 Worklist Smp#: 17

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

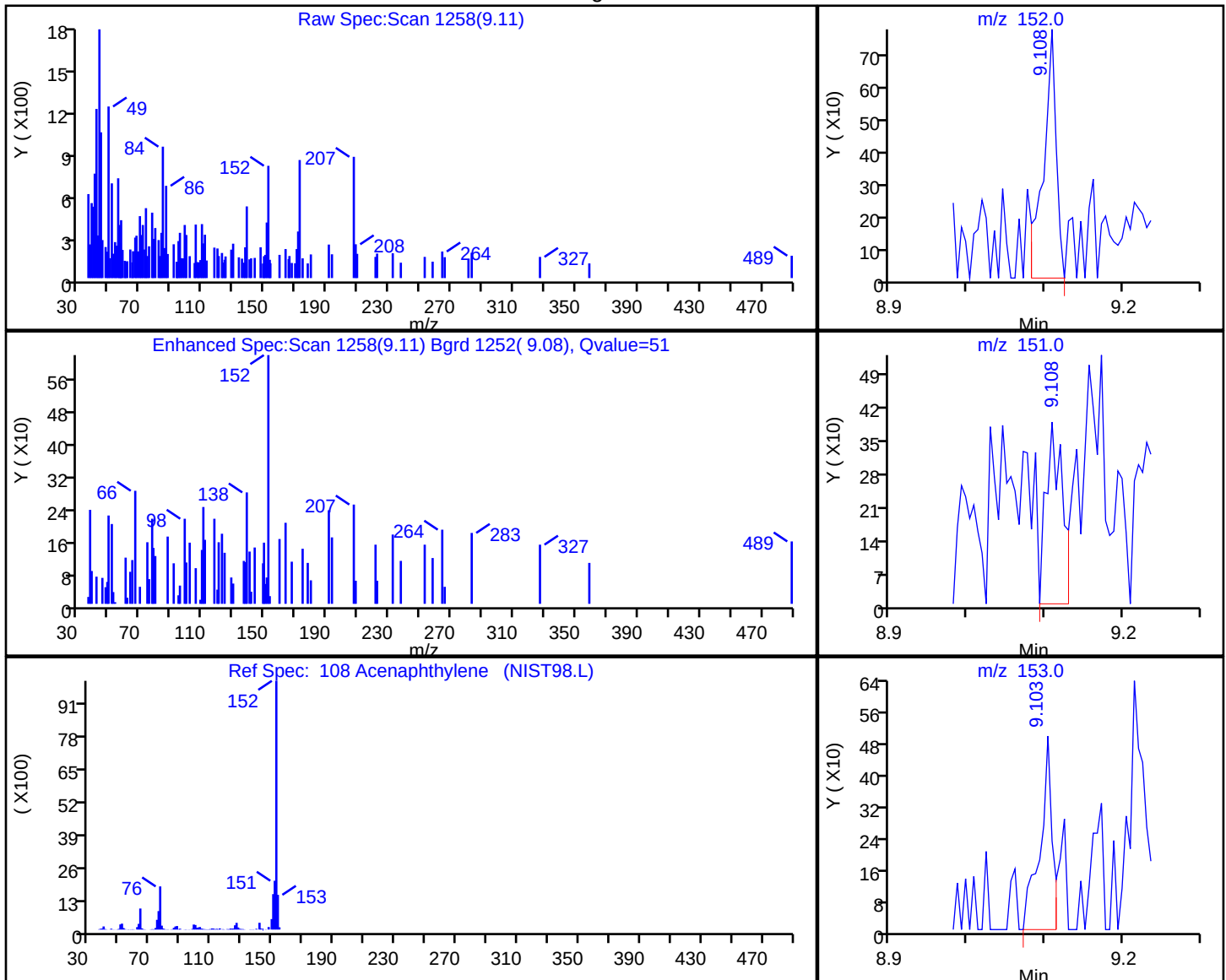
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

108 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
9.11	152.00	893	0.002398
9.11	151.00	560	
9.10	153.00	543	

Reviewer: schickr, 20-Apr-2018 11:43:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016994.D

Injection Date: 20-Apr-2018 08:06:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-1-A

Lab Sample ID: 480-134358-1

Client ID: MW-13

Operator ID: BS

ALS Bottle#:

43

Worklist Smp#: 17

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

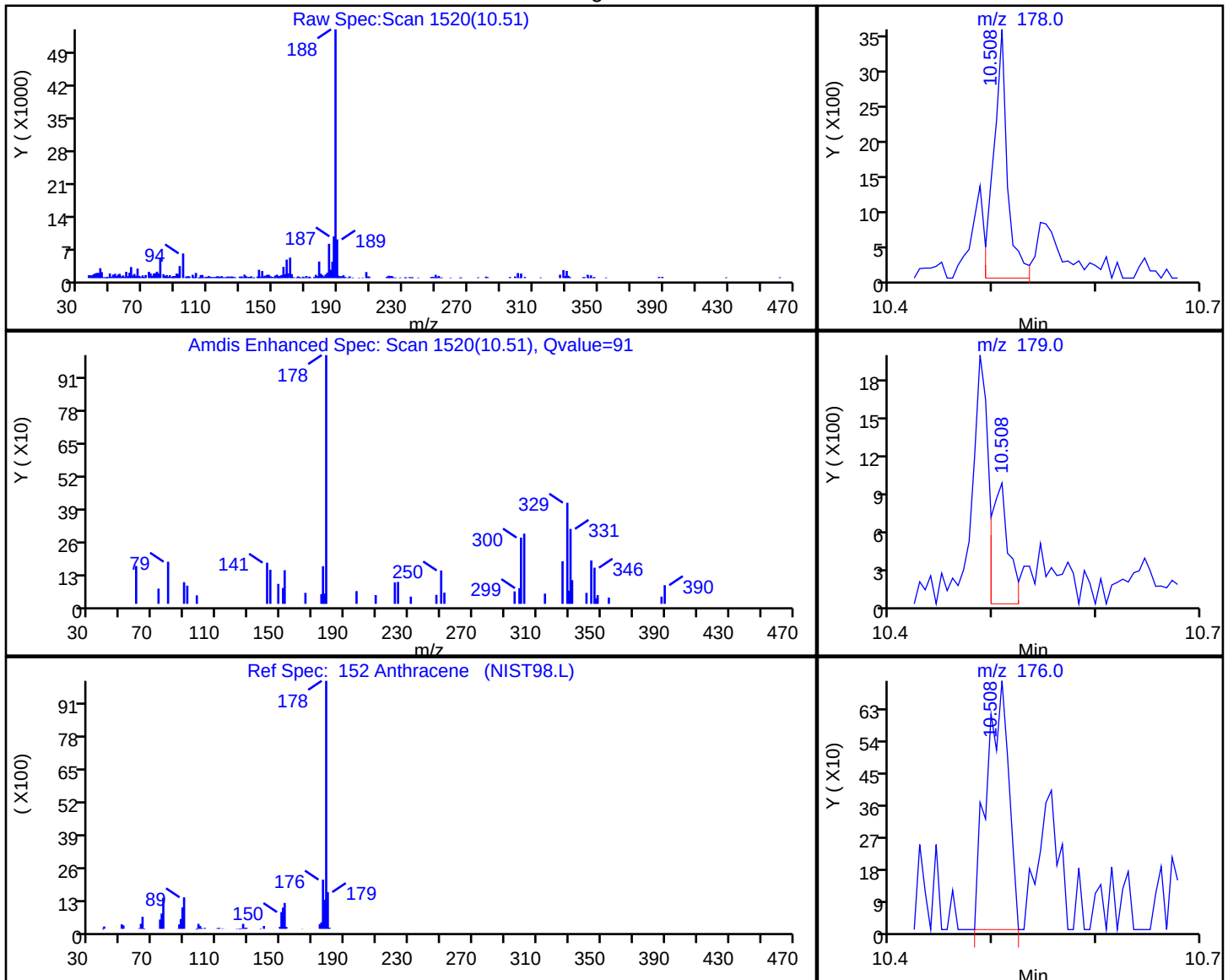
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
10.51	178.00	3276	0.007158
10.51	179.00	1063	
10.51	176.00	1029	

Reviewer: schickr, 20-Apr-2018 11:43:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-23</u>	Lab Sample ID: <u>480-134358-2</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>Y016995.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/17/2018 09:40</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/18/2018 14:24</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/20/2018 08:34</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>409652</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.33	J	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.53		0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.38	J	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.24	J	0.50	0.085
218-01-9	Chrysene	0.33	J	0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.61		0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.48	J	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	81		48-120
4165-60-0	Nitrobenzene-d5	69		46-120
1718-51-0	p-Terphenyl-d14	92		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D
 Lims ID: 480-134358-A-2-A
 Client ID: MW-23
 Sample Type: Client
 Inject. Date: 20-Apr-2018 08:34:30 ALS Bottle#: 44 Worklist Smp#: 18
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-018
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:44:33 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:44:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.641	6.640	0.001	94	421807	4.00	
* 2 Naphthalene-d8	136	7.731	7.735	-0.004	99	1582508	4.00	
* 3 Acenaphthene-d10	164	9.221	9.226	-0.005	97	863730	4.00	
* 4 Phenanthrene-d10	188	10.487	10.486	0.001	97	1619055	4.00	
* 5 Chrysene-d12	240	13.281	13.286	-0.005	99	1489058	4.00	
* 6 Perylene-d12	264	15.567	15.567	0.000	98	1519954	4.00	
\$ 9 Nitrobenzene-d5	82	7.105	7.110	-0.005	90	823504	5.50	
\$ 10 2-Fluorobiphenyl	172	8.623	8.622	0.001	99	2101451	6.47	
\$ 12 p-Terphenyl-d14	244	11.908	11.907	0.001	100	2358505	7.36	
74 Naphthalene	128	7.752	7.751	0.001	97	9642	0.0228	
87 2-Methylnaphthalene	142	8.329	8.334	-0.005	93	2203	0.007688	
108 Acenaphthylene	152		9.108				ND	U
110 Acenaphthene	153		9.252				ND	U
124 Fluorene	166		9.685				ND	
151 Phenanthrene	178	10.508	10.508	0.000	95	40602	0.0885	
152 Anthracene	178		10.551				ND	U
164 Fluoranthene	202	11.566	11.566	0.000	97	72924	0.1520	
167 Pyrene	202	11.807	11.811	-0.004	97	58855	0.1190	
180 Benzo[a]anthracene	228	13.265	13.264	0.001	94	13968	0.0299	
182 Chrysene	228	13.318	13.323	-0.005	93	36635	0.0827	
186 Benzo[b]fluoranthene	252	14.932	14.931	0.001	97	51600	0.1314	
187 Benzo[k]fluoranthene	252	14.969	14.969	-0.005	97	20723	0.0601	Ma
189 Benzo[a]pyrene	252	15.471	15.476	-0.005	78	23760	0.0830	
193 Indeno[1,2,3-cd]pyrene	276	17.501	17.508	-0.010	96	28033	0.0864	
194 Dibenzo(a,h)anthracene	278		17.517				ND	U
195 Benzo[g,h,i]perylene	276	18.078	18.088	-0.010	97	27407	0.0945	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Worklist Smp#: 18

Client ID: MW-23

Injection Vol: 2.0 ul

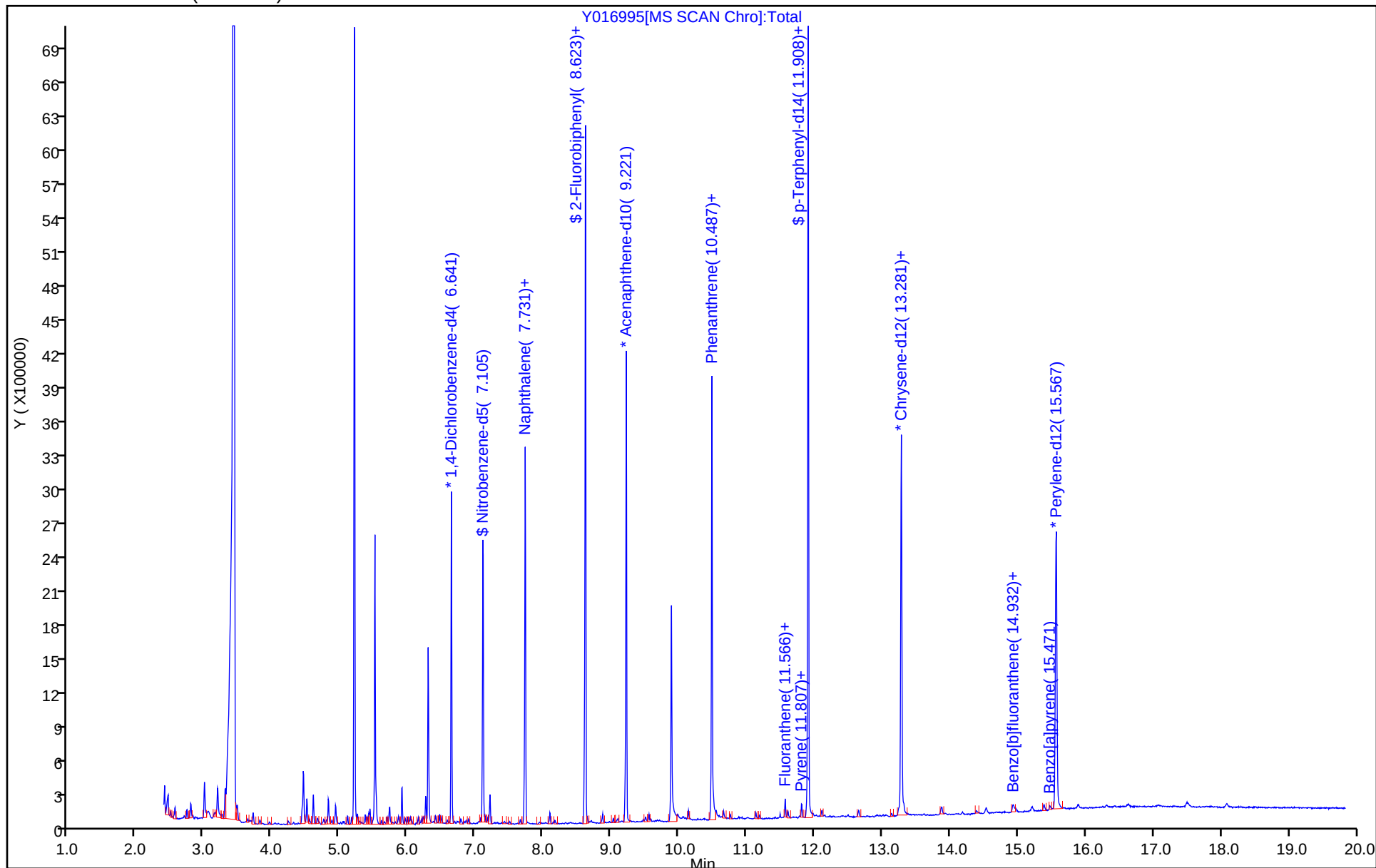
Dil. Factor: 1.0000

ALS Bottle#: 44

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44

Worklist Smp#: 18

Injection Vol: 2.0 ul

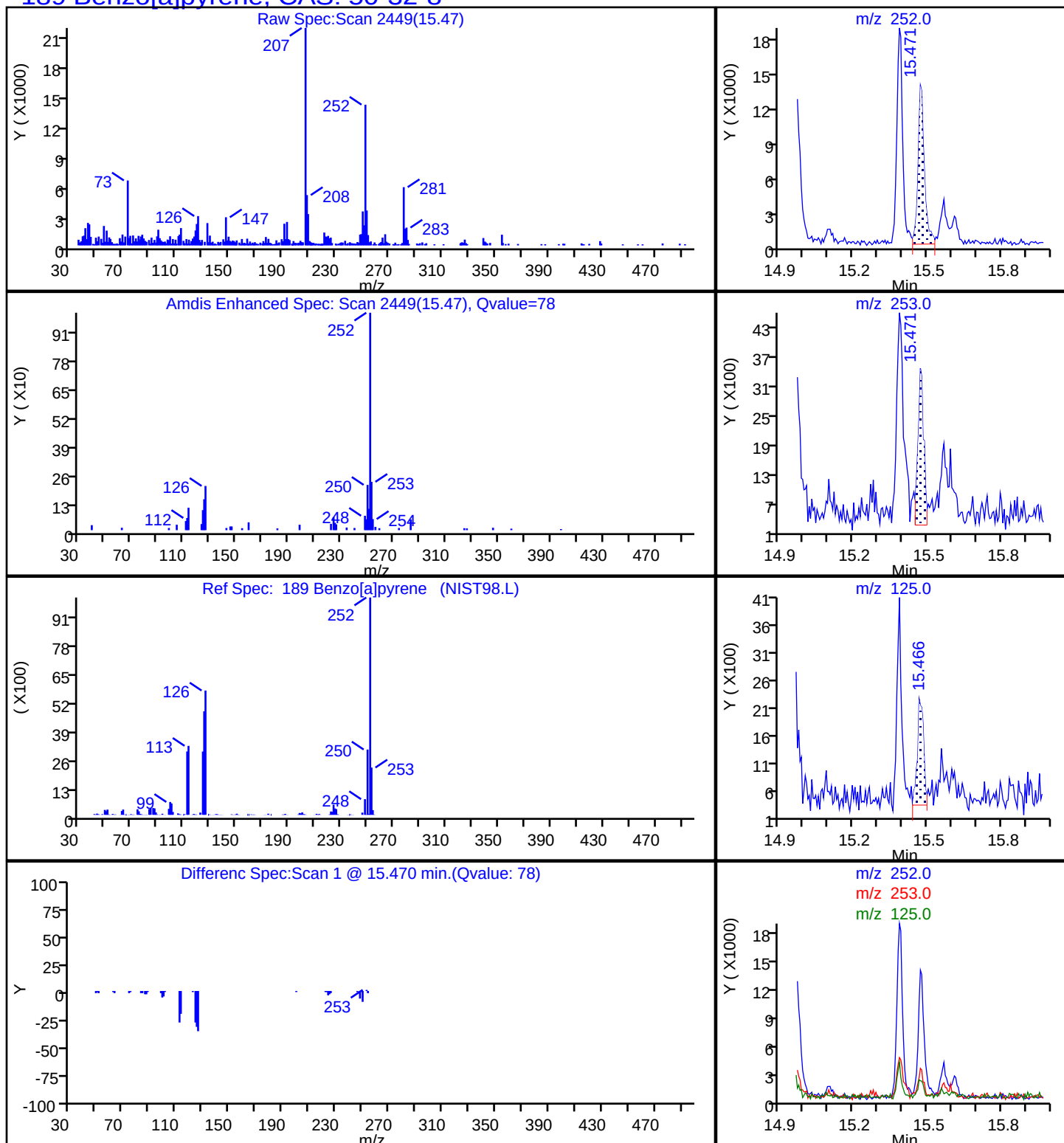
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

189 Benzo[a]pyrene, CAS: 50-32-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44

Worklist Smp#: 18

Injection Vol: 2.0 ul

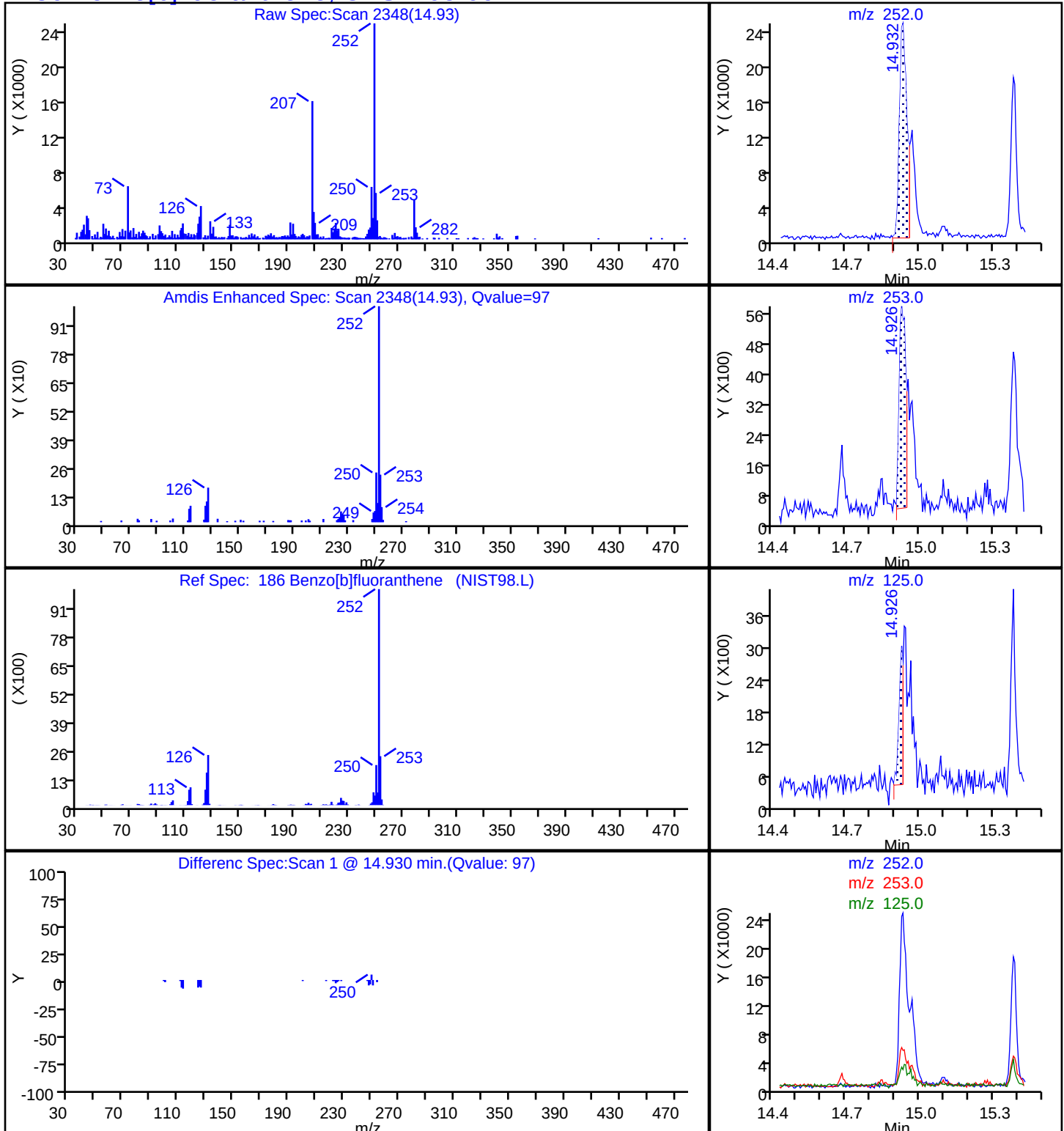
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

186 Benzo[b]fluoranthene, CAS: 205-99-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44

Worklist Smp#: 18

Injection Vol: 2.0 ul

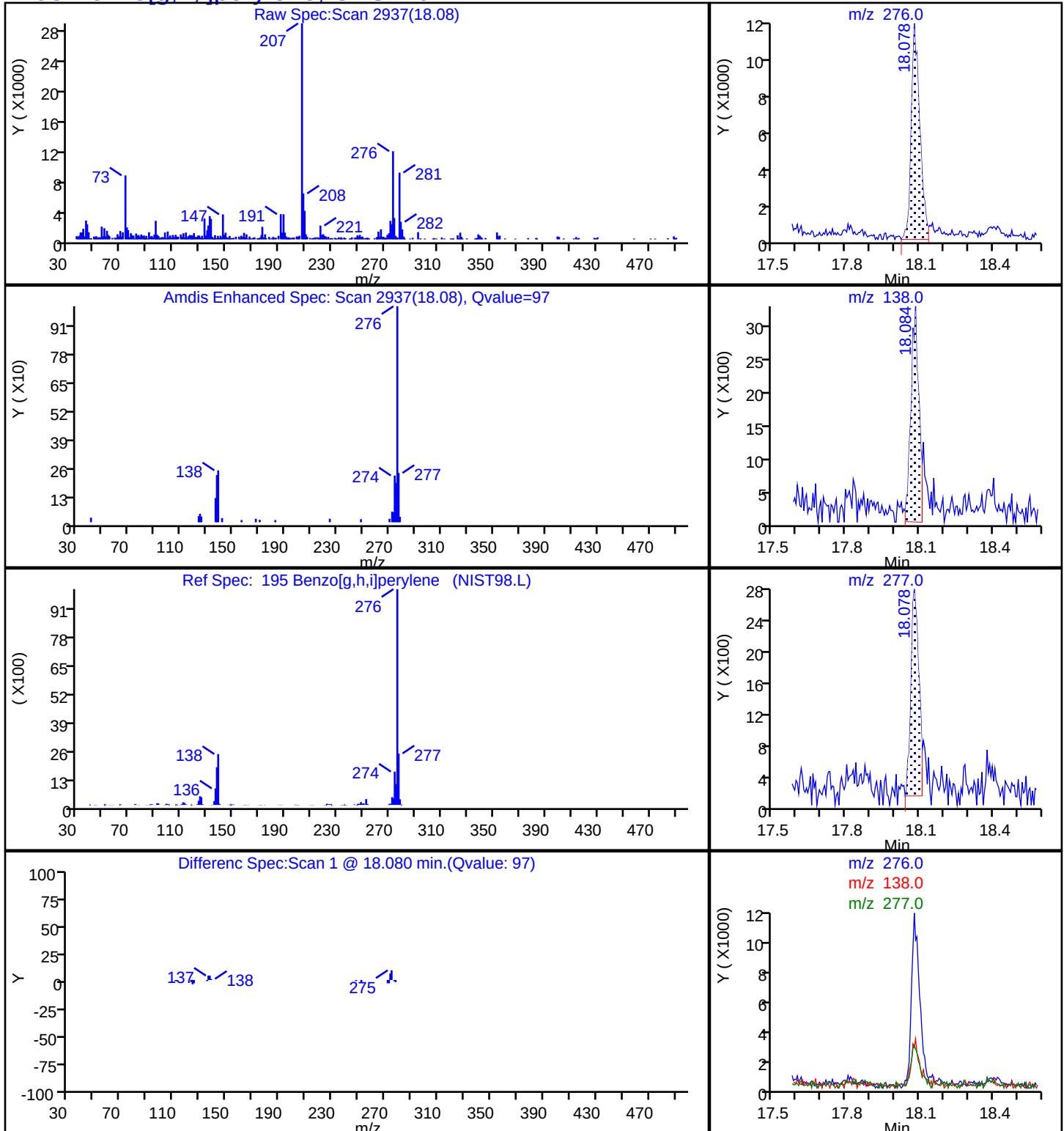
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

195 Benzo[g,h,i]perylene, CAS: 191-24-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44

Worklist Smp#: 18

Injection Vol: 2.0 ul

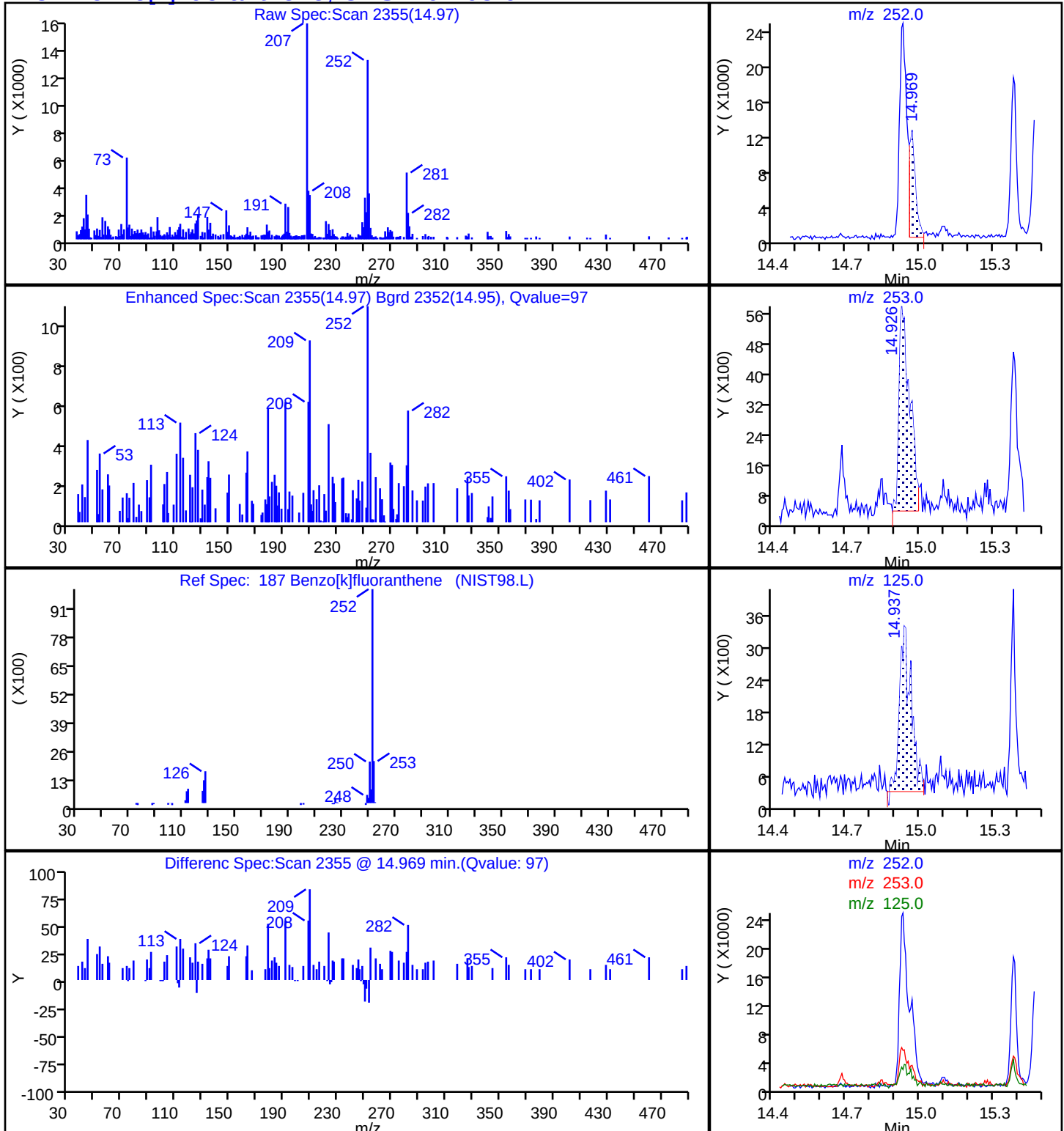
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44

Worklist Smp#: 18

Injection Vol: 2.0 ul

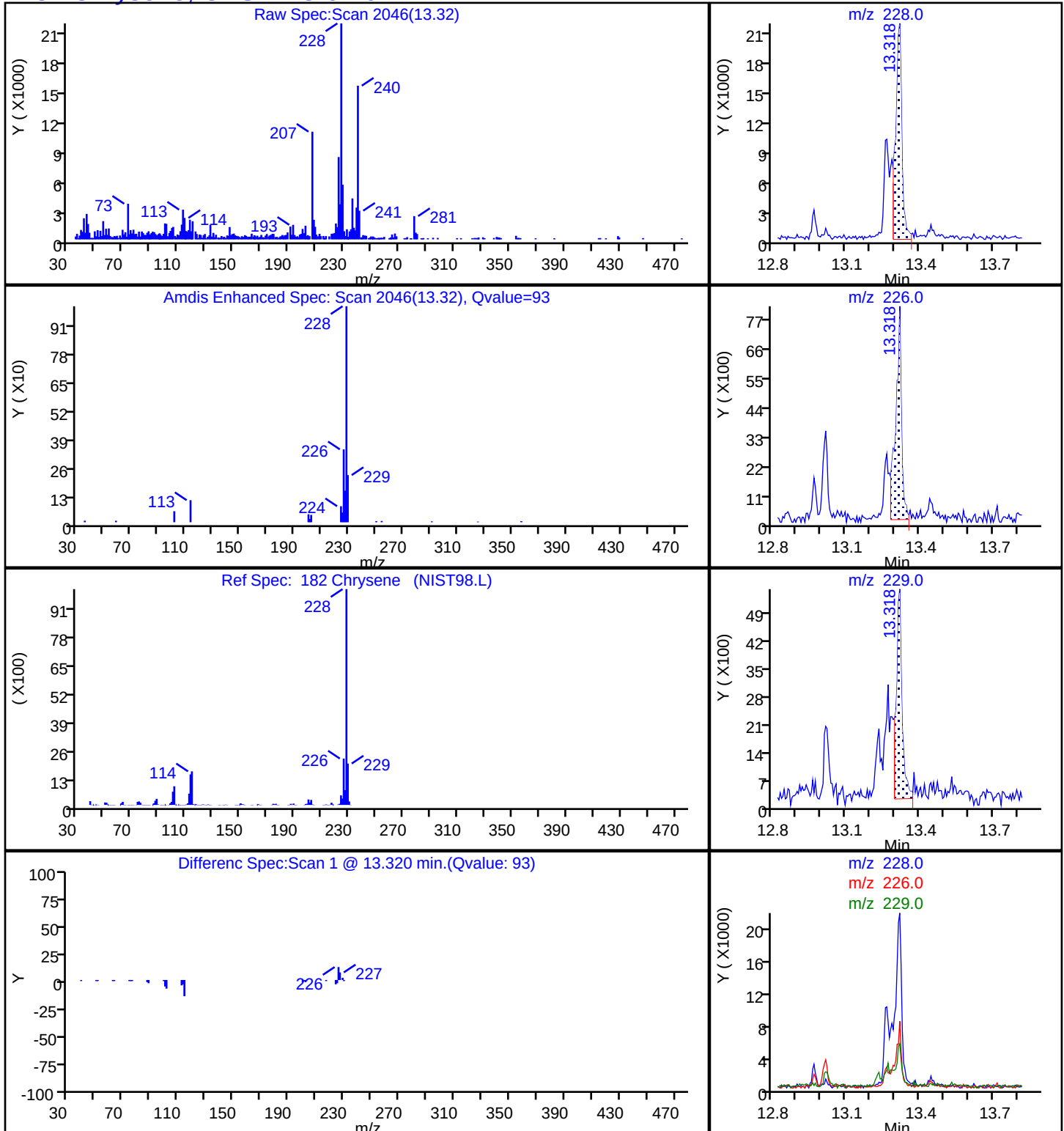
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

182 Chrysene, CAS: 218-01-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44

Worklist Smp#: 18

Injection Vol: 2.0 ul

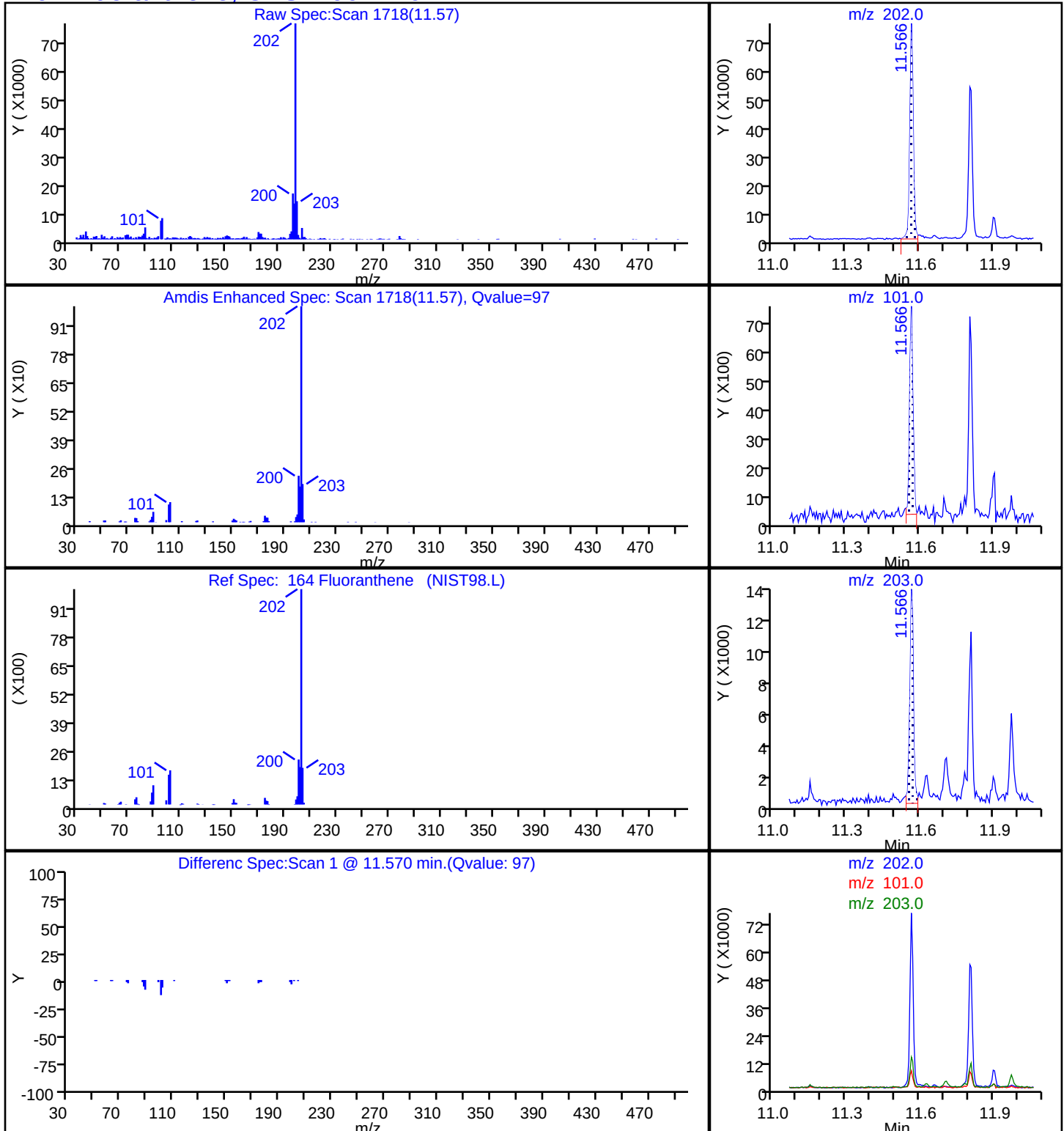
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

164 Fluoranthene, CAS: 206-44-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44

Worklist Smp#: 18

Injection Vol: 2.0 ul

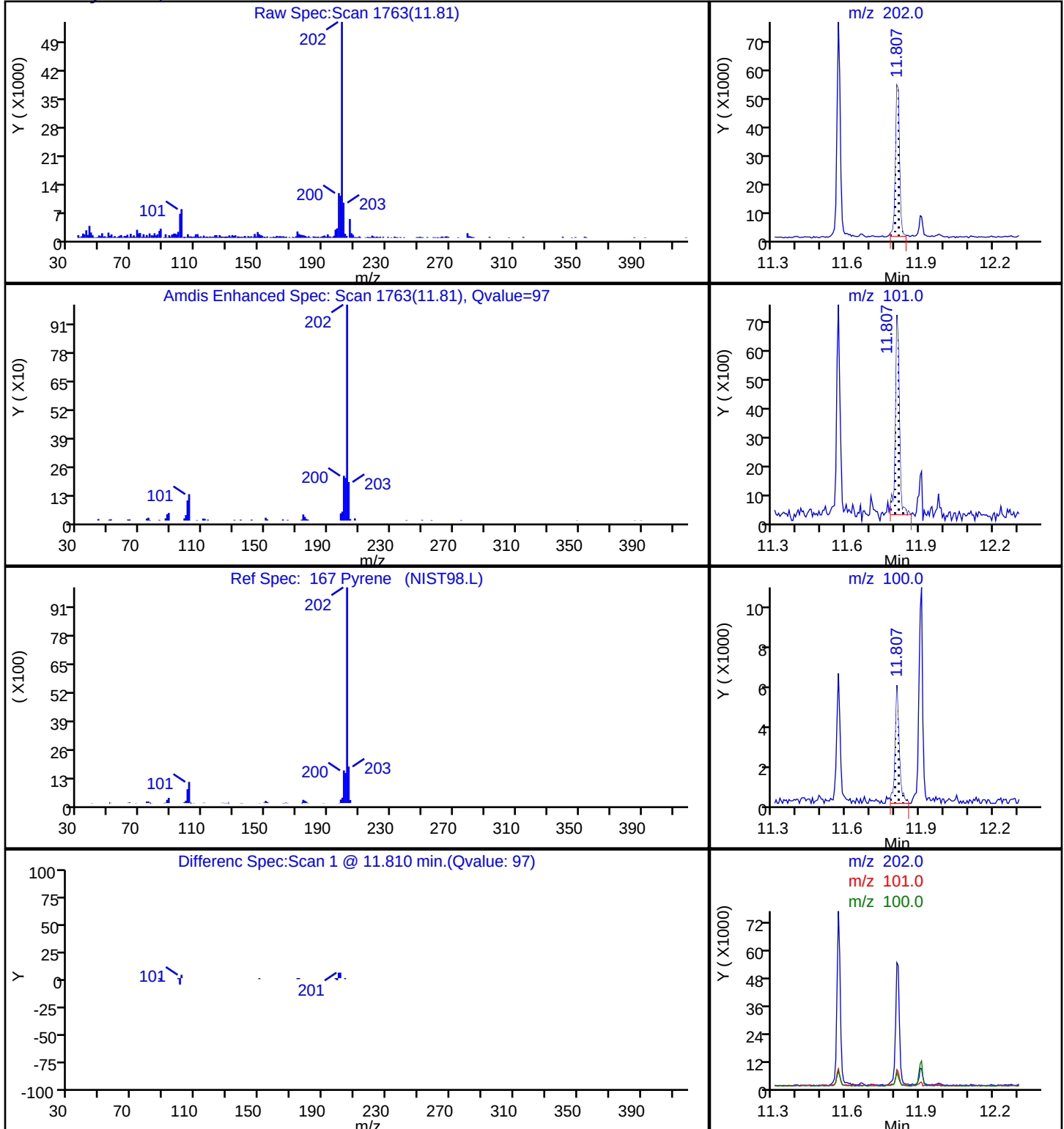
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

167 Pyrene, CAS: 129-00-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44 Worklist Smp#: 18

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

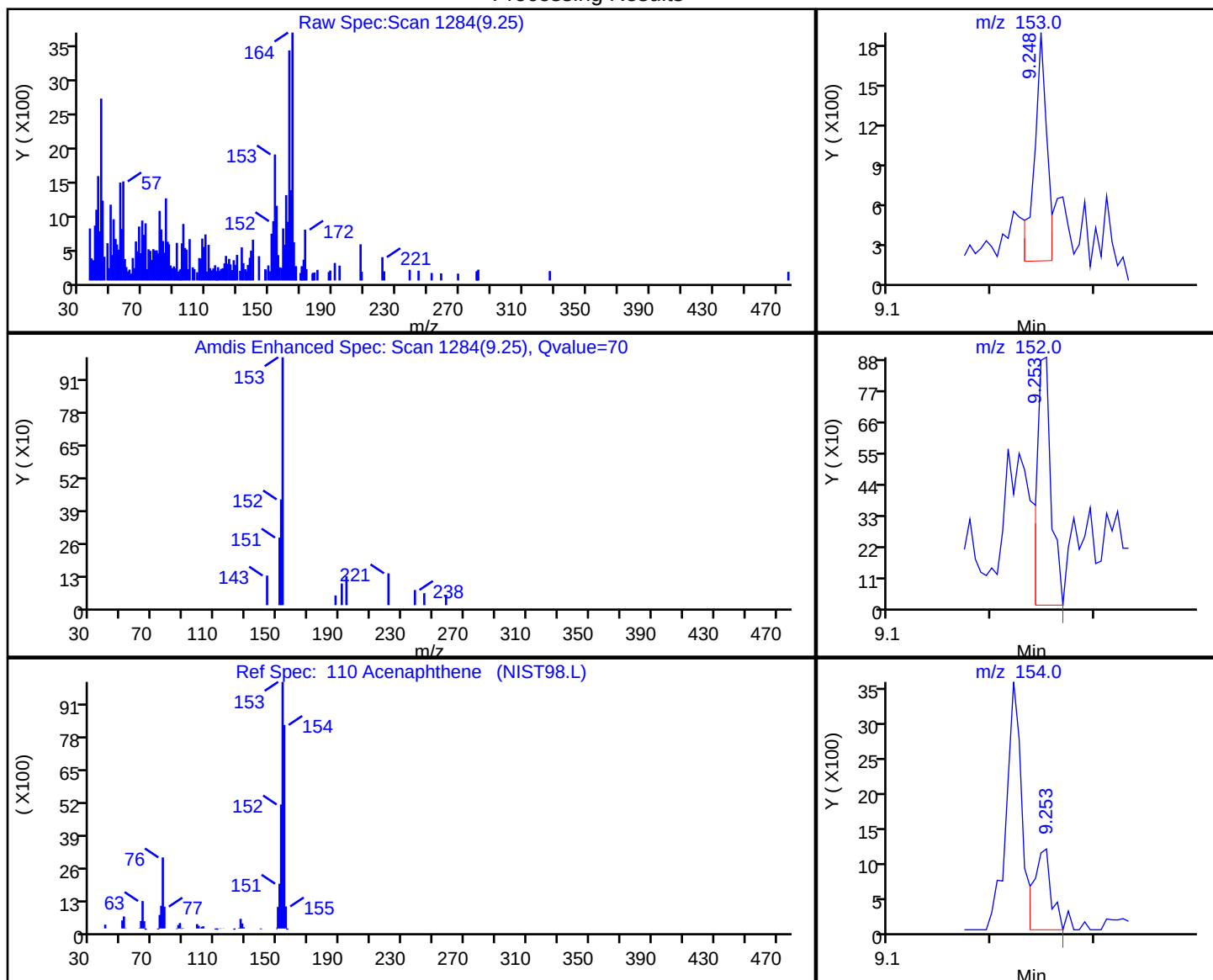
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

110 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
9.25	153.00	1459	0.005098
9.25	152.00	843	
9.25	154.00	1387	

Reviewer: schickr, 20-Apr-2018 11:44:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44 Worklist Smp#: 18

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

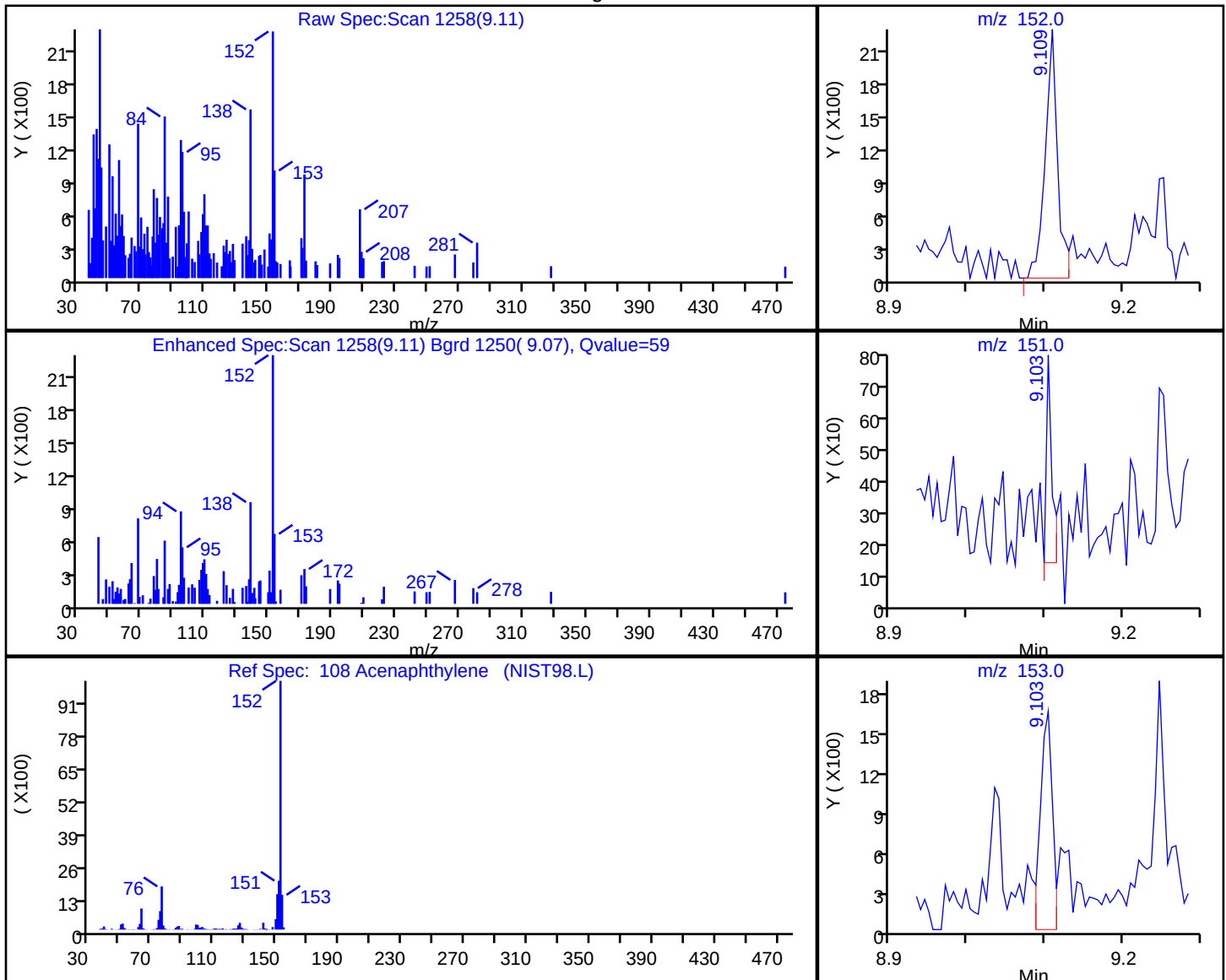
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

108 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
9.11	152.00	2452	0.006546
9.10	151.00	331	
9.10	153.00	1772	

Reviewer: schickr, 20-Apr-2018 11:44:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#: 44 Worklist Smp#: 18

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

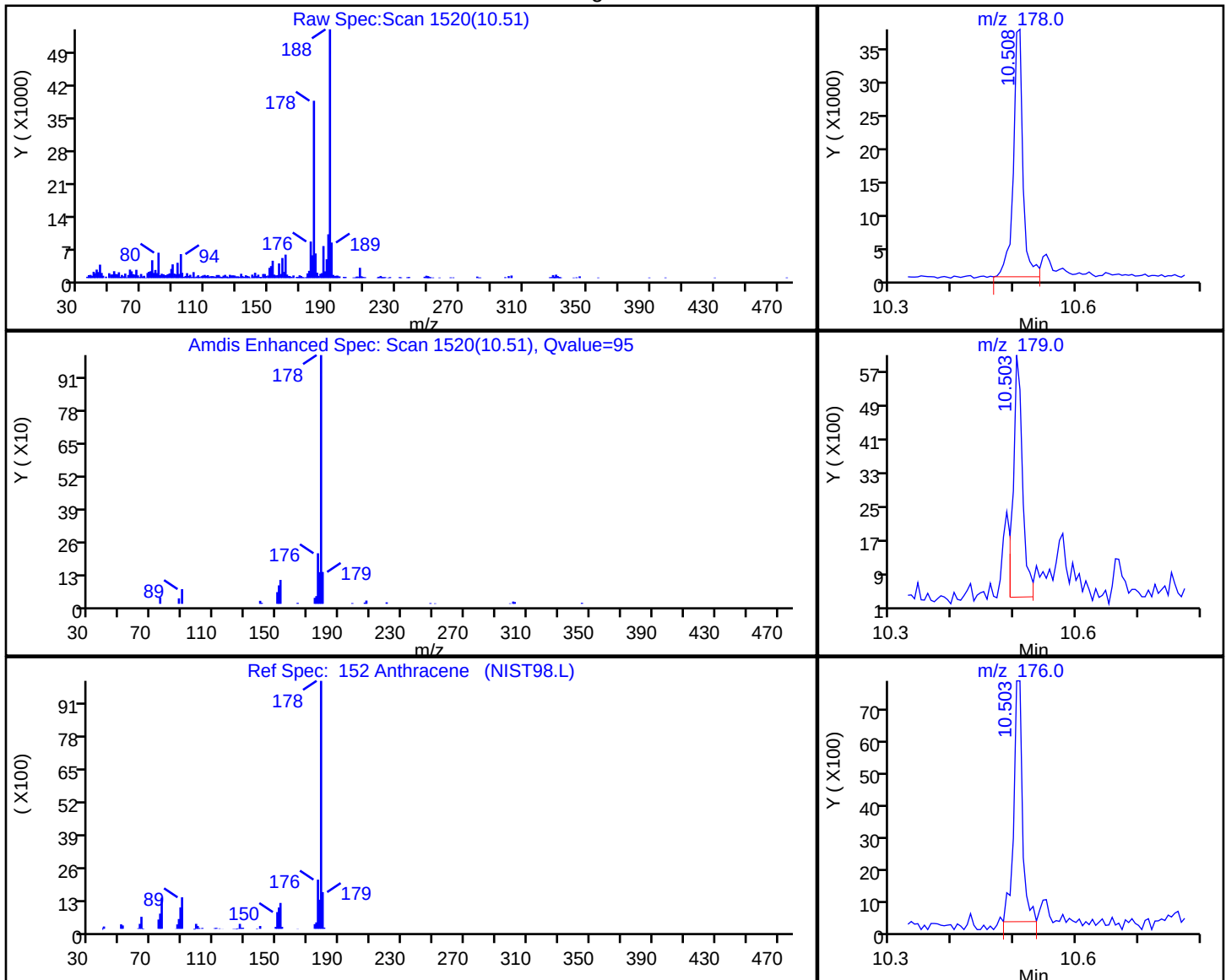
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
10.51	178.00	40602	0.089181
10.50	179.00	5999	
10.50	176.00	7427	

Reviewer: schickr, 20-Apr-2018 11:44:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

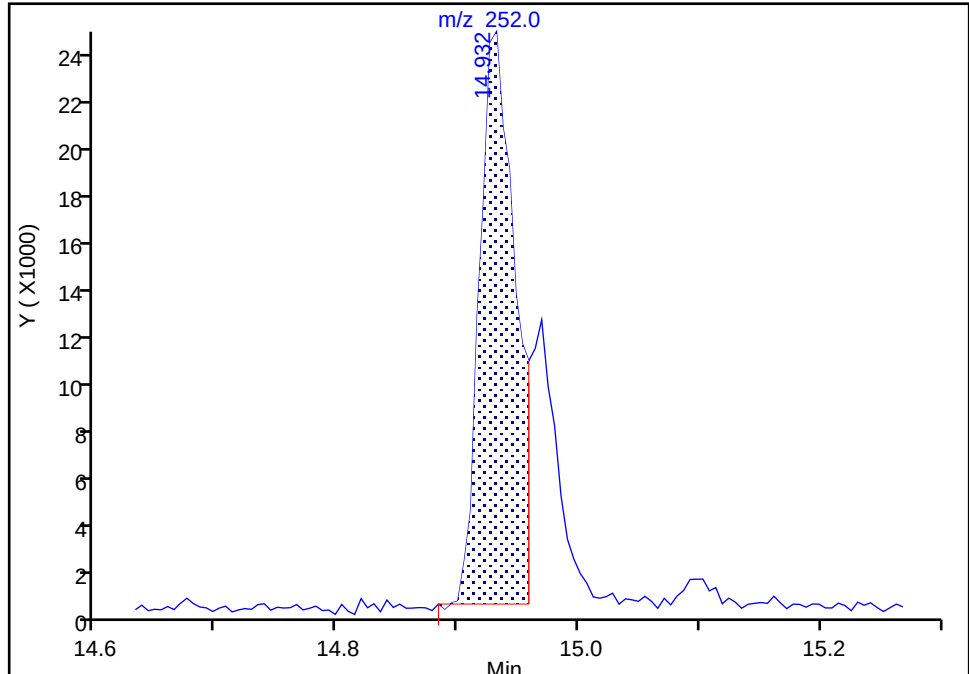
Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D				
Injection Date:	20-Apr-2018 08:34:30	Instrument ID:	HP5973Y		
Lims ID:	480-134358-A-2-A	Lab Sample ID:	480-134358-2		
Client ID:	MW-23				
Operator ID:	BS	ALS Bottle#:	44	Worklist Smp#:	18
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

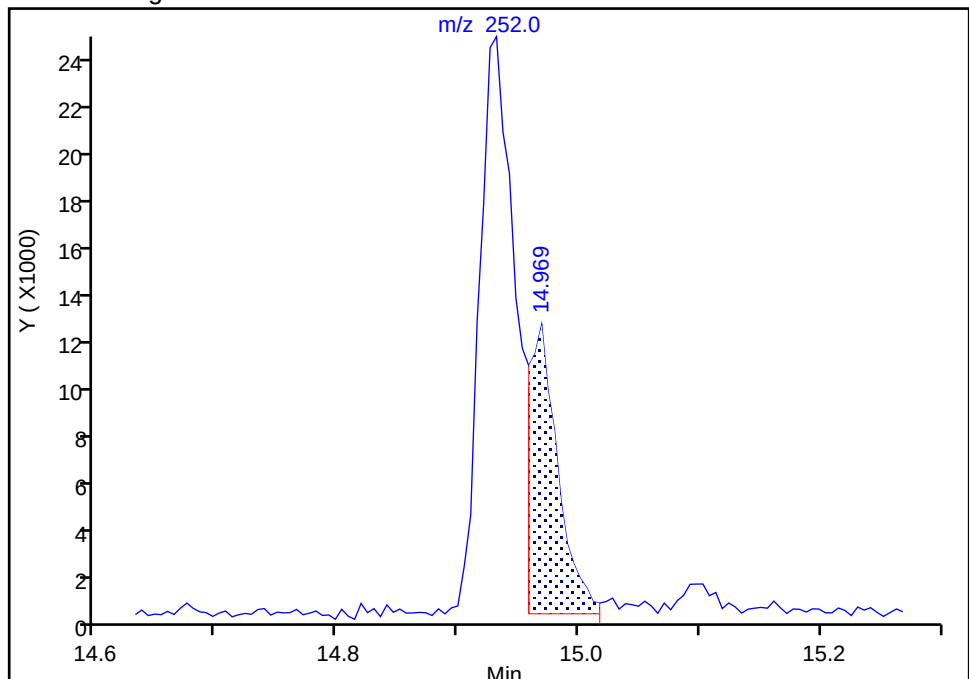
RT: 14.93
Area: 50322
Amount: 0.120953
Amount Units: ng/uL

Processing Integration Results



RT: 14.97
Area: 20723
Amount: 0.060076
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 20-Apr-2018 11:44:00

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016995.D

Injection Date: 20-Apr-2018 08:34:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-2-A

Lab Sample ID: 480-134358-2

Client ID: MW-23

Operator ID: BS

ALS Bottle#:

44

Worklist Smp#: 18

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

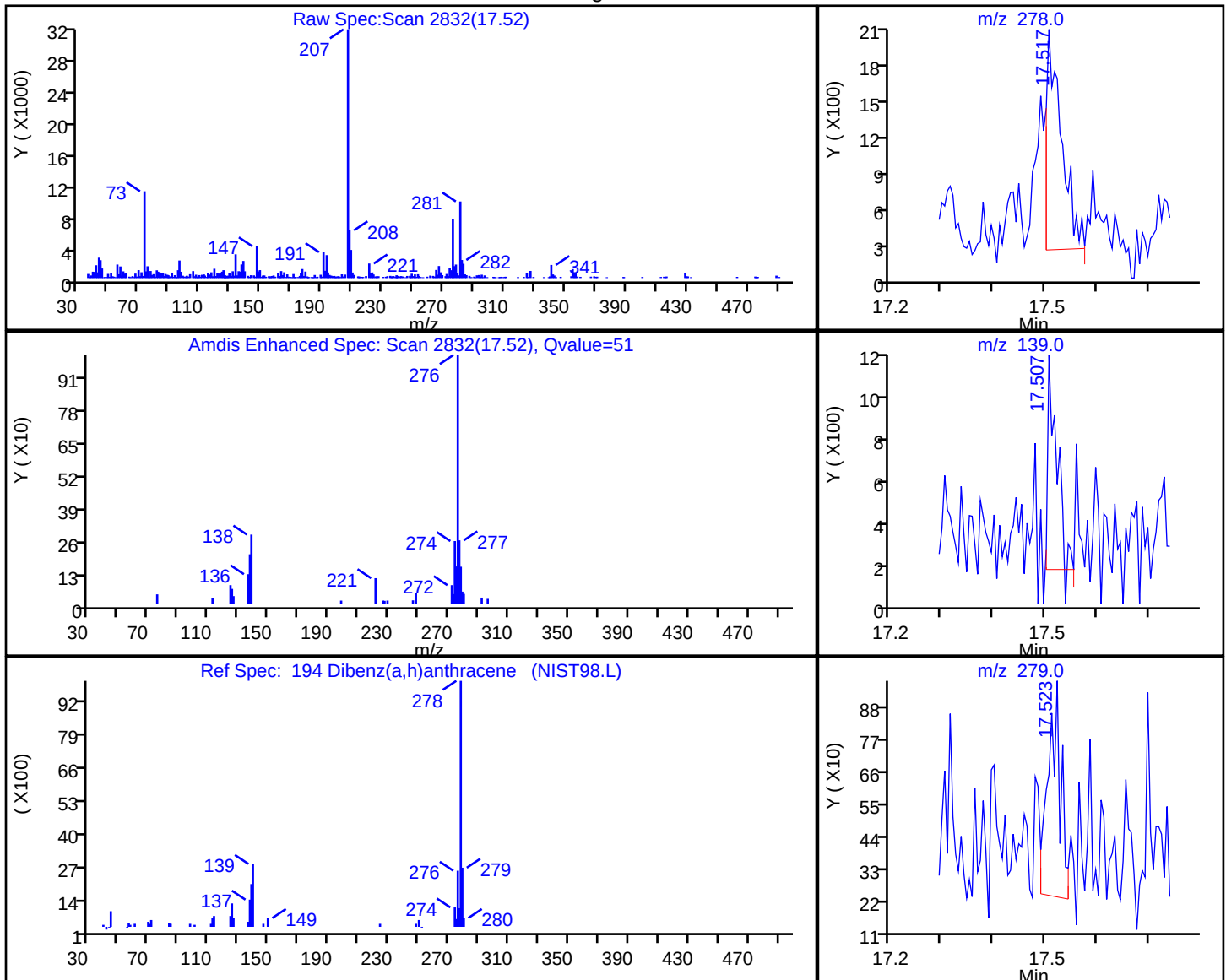
Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

194 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
17.52	278.00	3663	0.038574
17.51	139.00	1164	
17.52	279.00	1238	

Reviewer: schickr, 20-Apr-2018 11:44:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-07</u>	Lab Sample ID: <u>480-134358-6</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>Y016996.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/17/2018 13:35</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/18/2018 14:24</u>
Sample wt/vol: <u>50 (mL)</u>	Date Analyzed: <u>04/20/2018 09:03</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>100</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>409652</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	260		250	190
83-32-9	Acenaphthene	150	J	250	150
208-96-8	Acenaphthylene	250	U	250	170
120-12-7	Anthracene	250	U	250	200
56-55-3	Benzo (a) anthracene	250	U	250	200
50-32-8	Benzo (a) pyrene	250	U	250	170
205-99-2	Benzo (b) fluoranthene	250	U	250	150
191-24-2	Benzo (g, h, i) perylene	250	U	250	190
207-08-9	Benzo (k) fluoranthene	250	U	250	43
218-01-9	Chrysene	250	U	250	160
53-70-3	Dibenz (a, h) anthracene	250	U	250	170
206-44-0	Fluoranthene	250	U	250	180
86-73-7	Fluorene	250	U	250	190
193-39-5	Indeno (1, 2, 3-cd) pyrene	250	U	250	220
91-20-3	Naphthalene	3200		250	210
85-01-8	Phenanthrene	250	U	250	190
129-00-0	Pyrene	250	U	250	180

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	105		48-120
4165-60-0	Nitrobenzene-d5	76		46-120
1718-51-0	p-Terphenyl-d14	83		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016996.D
 Lims ID: 480-134358-A-6-A
 Client ID: MW-07
 Sample Type: Client
 Inject. Date: 20-Apr-2018 09:03:30 ALS Bottle#: 45 Worklist Smp#: 19
 Injection Vol: 2.0 ul Dil. Factor: 100.0000
 Sample Info: 480-0070775-019
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:44:58 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:44:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.639	6.640	-0.001	95	390897	4.00	
* 2 Naphthalene-d8	136	7.734	7.735	-0.001	99	1468357	4.00	
* 3 Acenaphthene-d10	164	9.225	9.226	-0.001	96	803256	4.00	
* 4 Phenanthrene-d10	188	10.485	10.486	-0.001	97	1489185	4.00	
* 5 Chrysene-d12	240	13.279	13.286	-0.007	99	1426055	4.00	
* 6 Perylene-d12	264	15.566	15.567	-0.001	98	1430628	4.00	
\$ 9 Nitrobenzene-d5	82	7.115	7.110	0.005	88	8425	0.0606	
\$ 10 2-Fluorobiphenyl	172	8.621	8.622	-0.001	99	25431	0.0842	
\$ 12 p-Terphenyl-d14	244	11.906	11.907	-0.001	99	20333	0.0662	
74 Naphthalene	128	7.750	7.751	-0.001	97	622369	1.58	
87 2-Methylnaphthalene	142	8.333	8.334	-0.001	91	34604	0.1301	
108 Acenaphthylene	152		9.108				ND	U
110 Acenaphthene	153	9.251	9.252	-0.001	93	19726	0.0741	
124 Fluorene	166	9.684	9.685	-0.001	91	4187	0.0144	
151 Phenanthrene	178	10.507	10.508	-0.001	92	4963	0.0118	
152 Anthracene	178		10.551				ND	U
164 Fluoranthene	202		11.566				ND	
167 Pyrene	202		11.811				ND	
180 Benzo[a]anthracene	228		13.264				ND	
182 Chrysene	228		13.323				ND	
186 Benzo[b]fluoranthene	252		14.931				ND	
187 Benzo[k]fluoranthene	252		14.974				ND	
189 Benzo[a]pyrene	252		15.476				ND	
193 Indeno[1,2,3-cd]pyrene	276		17.511				ND	
194 Dibenzo(a,h)anthracene	278		17.517				ND	
195 Benzo[g,h,i]perylene	276		18.088				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016996.D

Injection Date: 20-Apr-2018 09:03:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: 480-134358-A-6-A

Lab Sample ID: 480-134358-6

Worklist Smp#: 19

Client ID: MW-07

Injection Vol: 2.0 ul

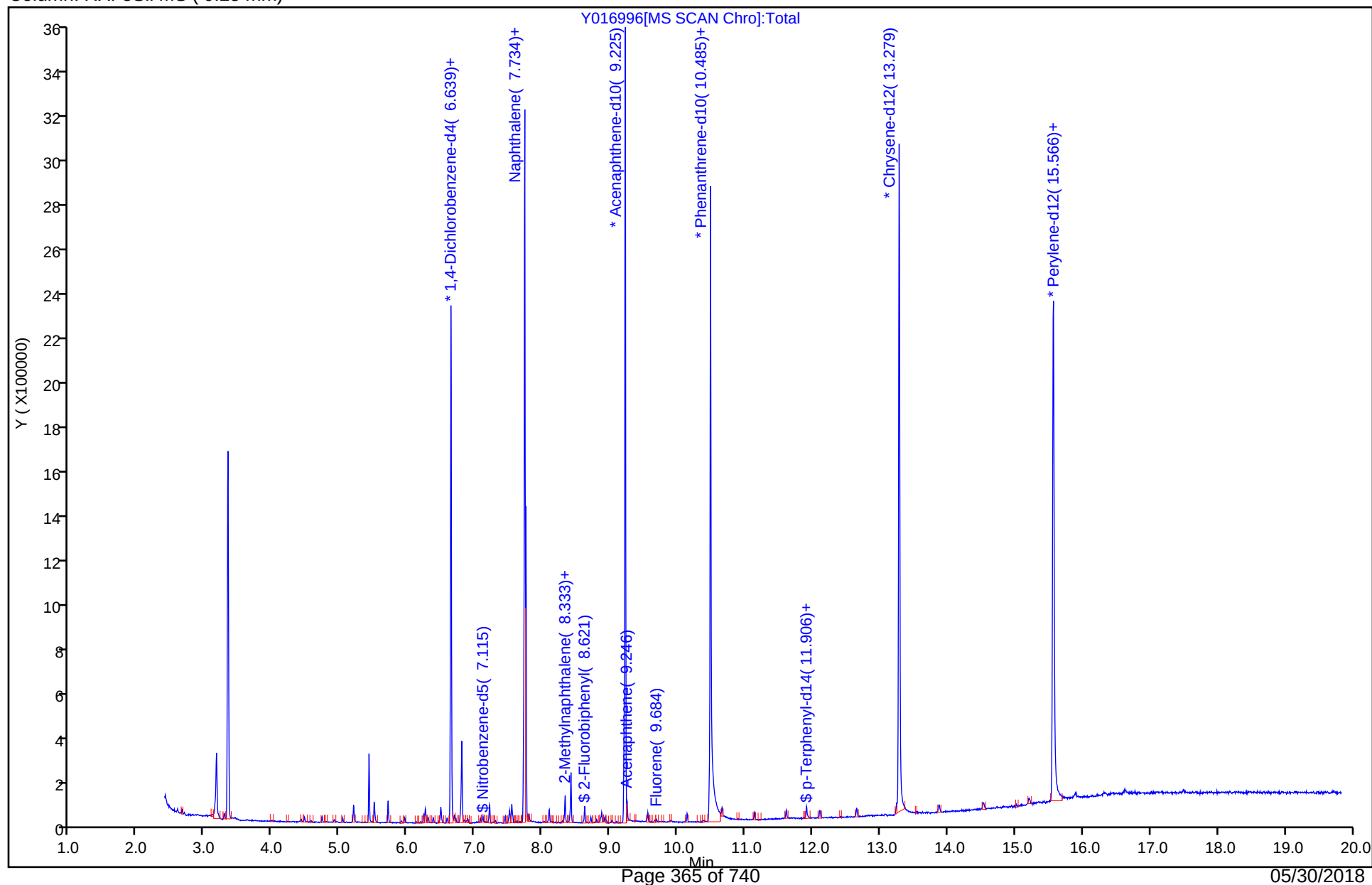
Dil. Factor: 100.0000

ALS Bottle#: 45

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016996.D

Injection Date: 20-Apr-2018 09:03:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-6-A

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: BS

ALS Bottle#: 45

Worklist Smp#: 19

Injection Vol: 2.0 ul

Dil. Factor: 100.0000

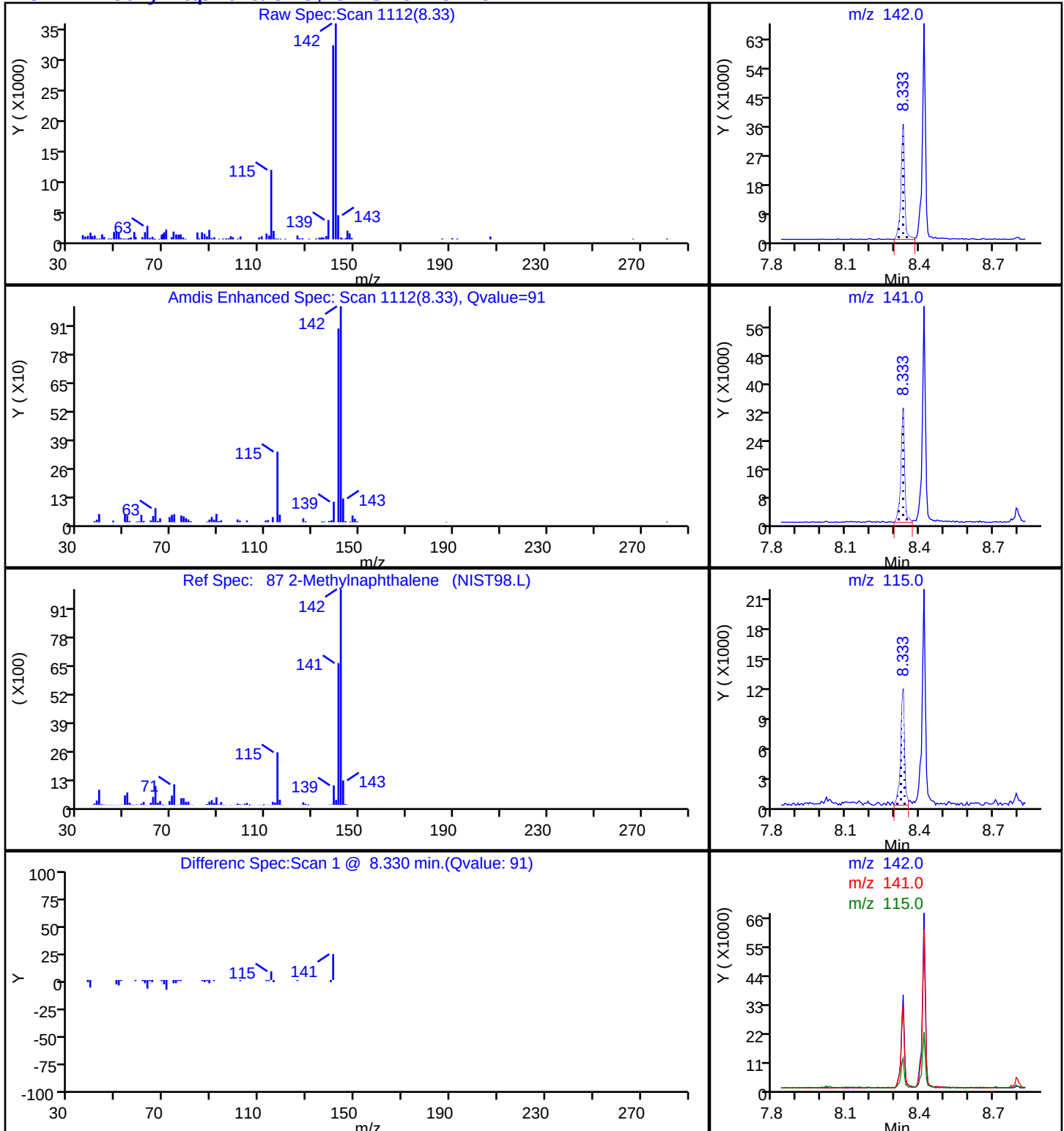
Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

87 2-Methylnaphthalene, CAS: 91-57-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016996.D

Injection Date: 20-Apr-2018 09:03:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-6-A

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: BS

ALS Bottle#: 45

Worklist Smp#: 19

Injection Vol: 2.0 ul

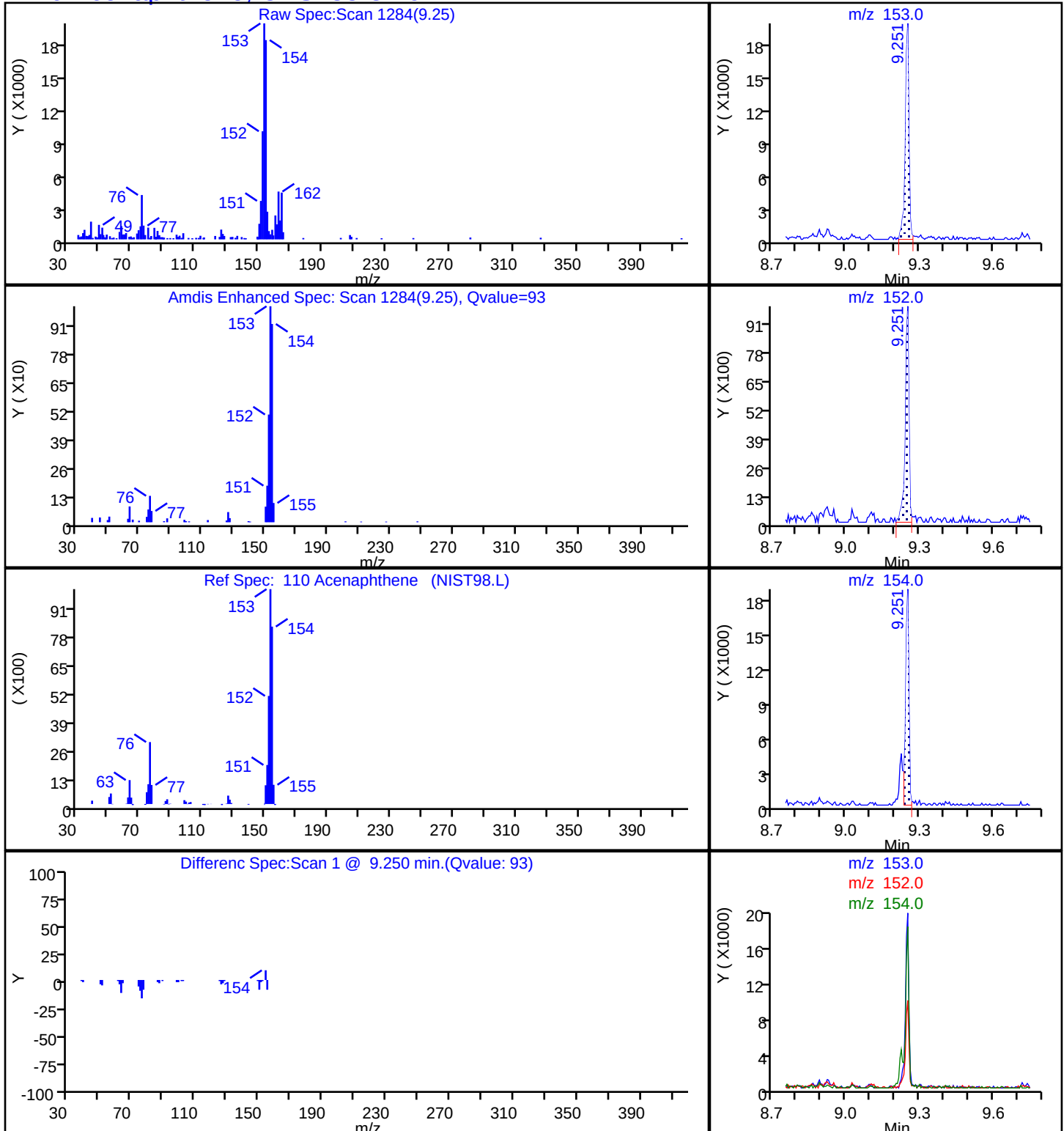
Dil. Factor: 100.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

110 Acenaphthene, CAS: 83-32-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016996.D

Injection Date: 20-Apr-2018 09:03:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-6-A

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: BS

ALS Bottle#: 45

Worklist Smp#: 19

Injection Vol: 2.0 ul

Dil. Factor: 100.0000

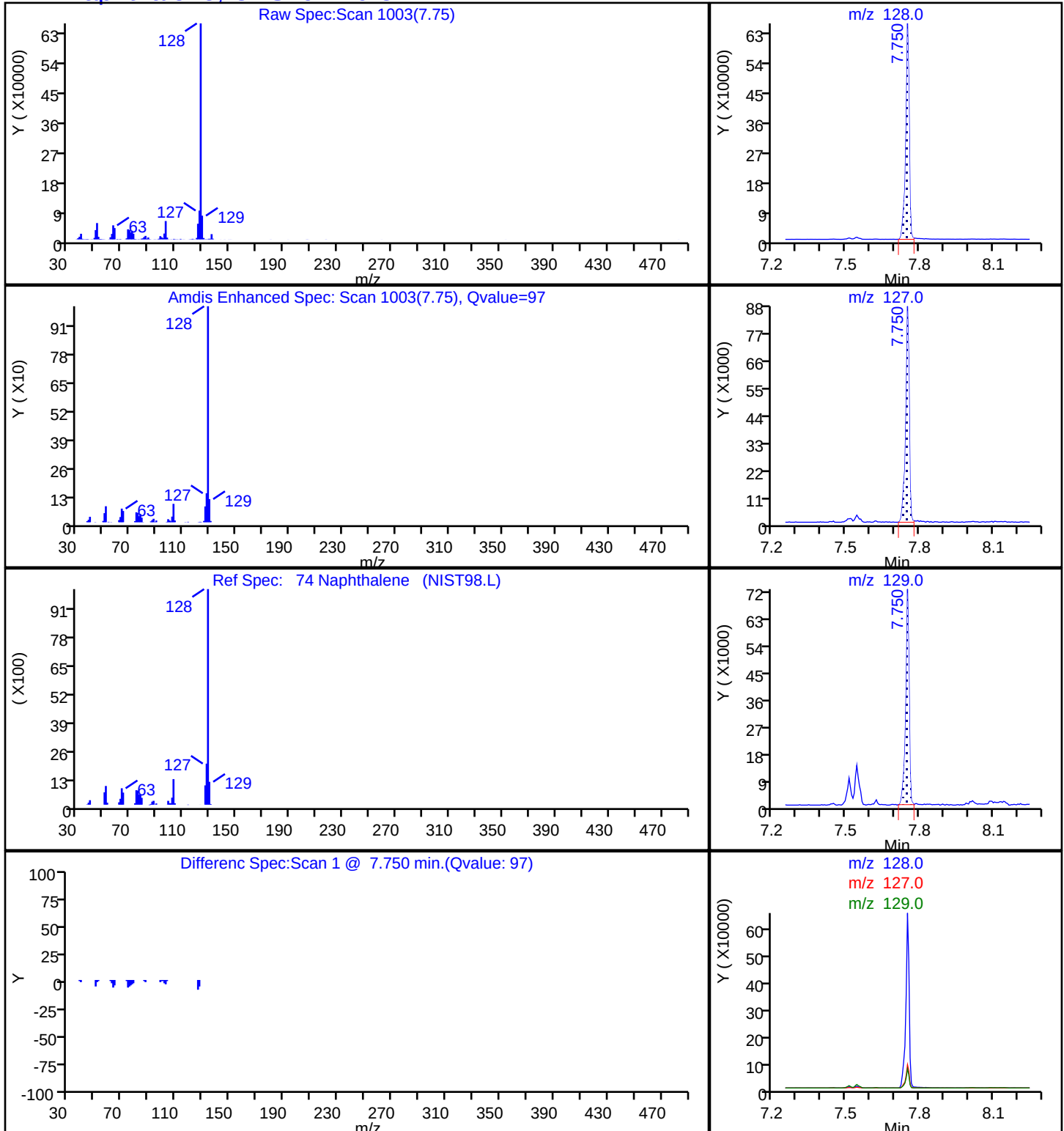
Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

74 Naphthalene, CAS: 91-20-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016996.D

Injection Date: 20-Apr-2018 09:03:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-6-A

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: BS

ALS Bottle#: 45 Worklist Smp#: 19

Injection Vol: 2.0 ul

Dil. Factor: 100.0000

Method: Y-LVI-8270

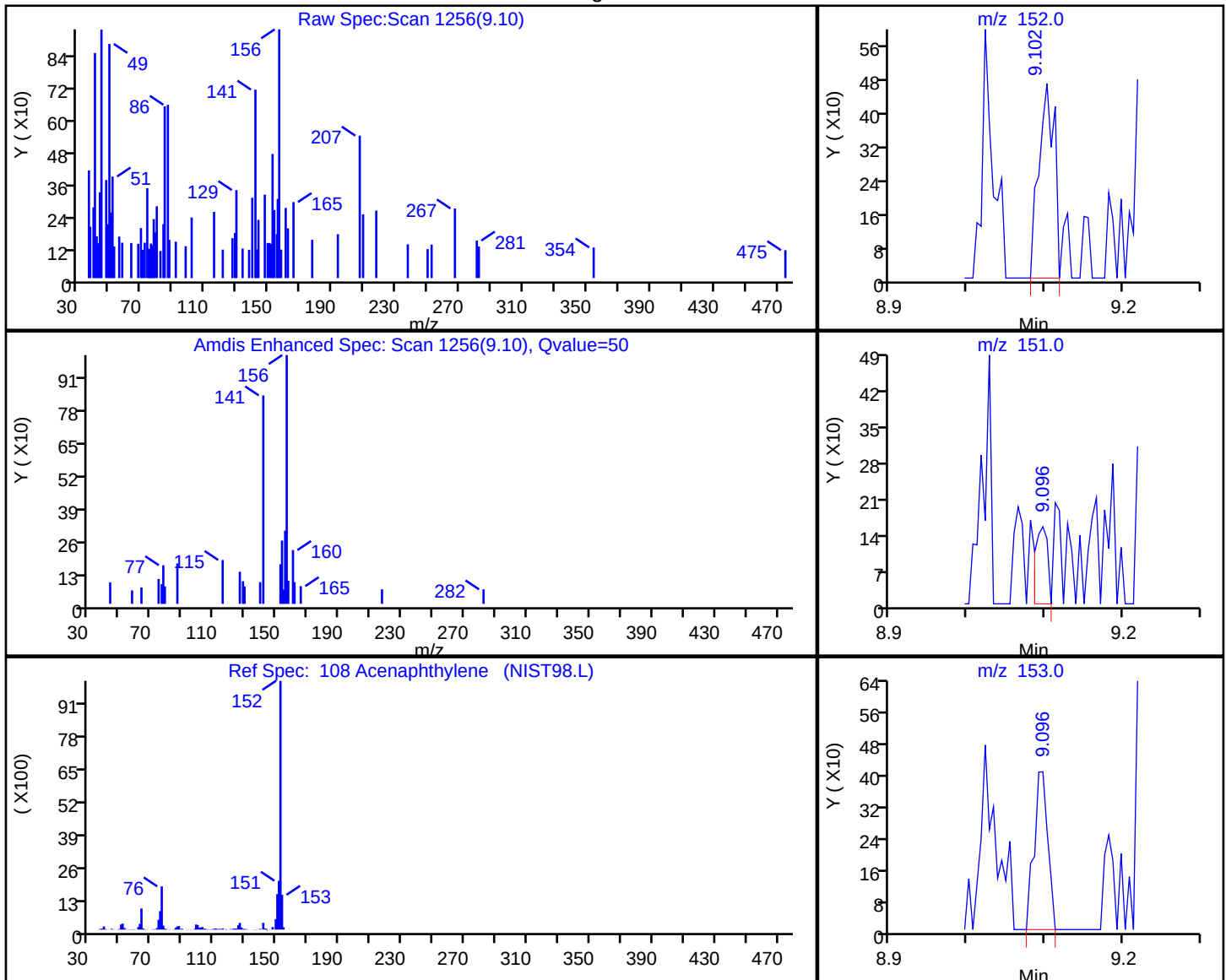
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

108 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
9.10	152.00	651	0.001869
9.10	151.00	166	
9.10	153.00	499	

Reviewer: schickr, 20-Apr-2018 11:44:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016996.D

Injection Date: 20-Apr-2018 09:03:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-6-A

Lab Sample ID: 480-134358-6

Client ID: MW-07

Operator ID: BS

ALS Bottle#: 45 Worklist Smp#: 19

Injection Vol: 2.0 ul

Dil. Factor: 100.0000

Method: Y-LVI-8270

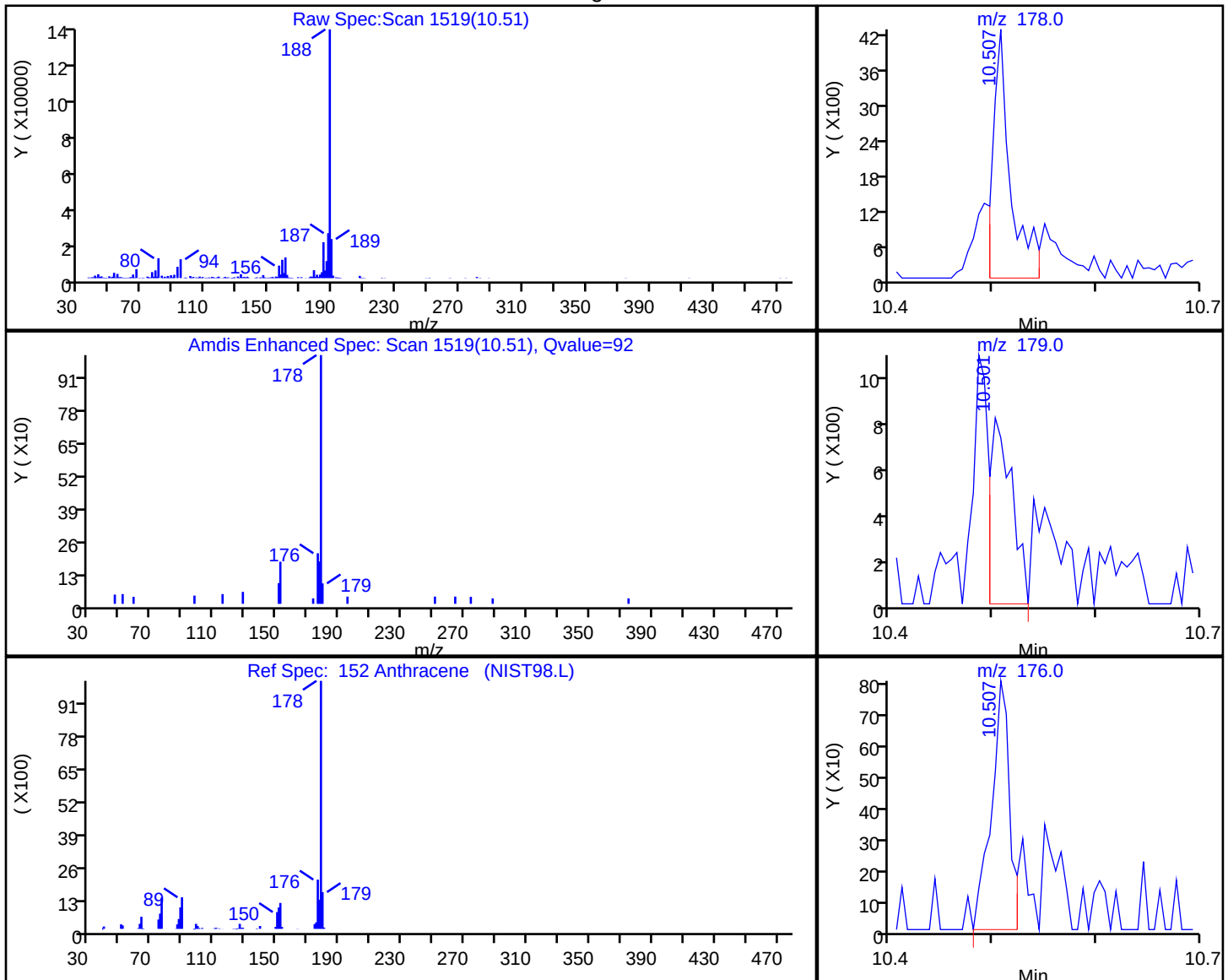
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
10.51	178.00	4963	0.011852
10.50	179.00	1118	
10.51	176.00	994	

Reviewer: schickr, 20-Apr-2018 11:44:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-10</u>	Lab Sample ID: <u>480-134358-7</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>Y016997.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/17/2018 12:35</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/18/2018 14:24</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/20/2018 09:32</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>409652</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.65		0.50	0.33
205-99-2	Benzo (b) fluoranthene	1.8		0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.71		0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.51		0.50	0.085
218-01-9	Chrysene	1.6		0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	4.0		0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.64		0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	3.3		0.50	0.38
129-00-0	Pyrene	2.0		0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	95		48-120
4165-60-0	Nitrobenzene-d5	82		46-120
1718-51-0	p-Terphenyl-d14	103		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D
 Lims ID: 480-134358-A-7-A
 Client ID: MW-10
 Sample Type: Client
 Inject. Date: 20-Apr-2018 09:32:30 ALS Bottle#: 46 Worklist Smp#: 20
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-020
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:46:00 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:46:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.639	6.640	-0.001	94	404027	4.00	
* 2 Naphthalene-d8	136	7.729	7.735	-0.006	99	1536827	4.00	
* 3 Acenaphthene-d10	164	9.219	9.226	-0.007	96	836778	4.00	
* 4 Phenanthrene-d10	188	10.485	10.486	-0.001	97	1550335	4.00	
* 5 Chrysene-d12	240	13.279	13.286	-0.007	99	1445033	4.00	
* 6 Perylene-d12	264	15.566	15.567	-0.001	98	1448945	4.00	
\$ 9 Nitrobenzene-d5	82	7.109	7.110	-0.001	89	950053	6.53	
\$ 10 2-Fluorobiphenyl	172	8.621	8.622	-0.001	99	2389409	7.59	
\$ 12 p-Terphenyl-d14	244	11.906	11.907	-0.001	99	2575543	8.28	
74 Naphthalene	128	7.750	7.751	-0.001	96	15334	0.0373	
87 2-Methylnaphthalene	142	8.327	8.334	-0.007	90	3787	0.0136	
108 Acenaphthylene	152		9.108				ND	
110 Acenaphthene	153		9.252				ND	U
124 Fluorene	166	9.684	9.685	-0.001	92	7308	0.0241	
151 Phenanthrene	178	10.507	10.508	-0.001	97	358441	0.8156	
152 Anthracene	178		10.551				ND	U
164 Fluoranthene	202	11.565	11.566	-0.001	98	456083	0.99	
167 Pyrene	202	11.810	11.811	-0.001	98	238659	0.4972	
180 Benzo[a]anthracene	228	13.263	13.264	-0.001	96	36273	0.0800	
182 Chrysene	228	13.317	13.323	-0.006	96	176024	0.4095	
186 Benzo[b]fluoranthene	252	14.925	14.931	-0.006	97	189129	0.4432	
187 Benzo[k]fluoranthene	252	14.967	14.967	-0.007	98	50537	0.1265	M
189 Benzo[a]pyrene	252	15.475	15.476	-0.001	77	56630	0.1632	
193 Indeno[1,2,3-cd]pyrene	276	17.500	17.508	-0.011	98	62135	0.1595	
194 Dibenzo(a,h)anthracene	278		17.517				ND	U
195 Benzo[g,h,i]perylene	276	18.077	18.088	-0.011	95	59798	0.1783	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Worklist Smp#: 20

Client ID: MW-10

Injection Vol: 2.0 ul

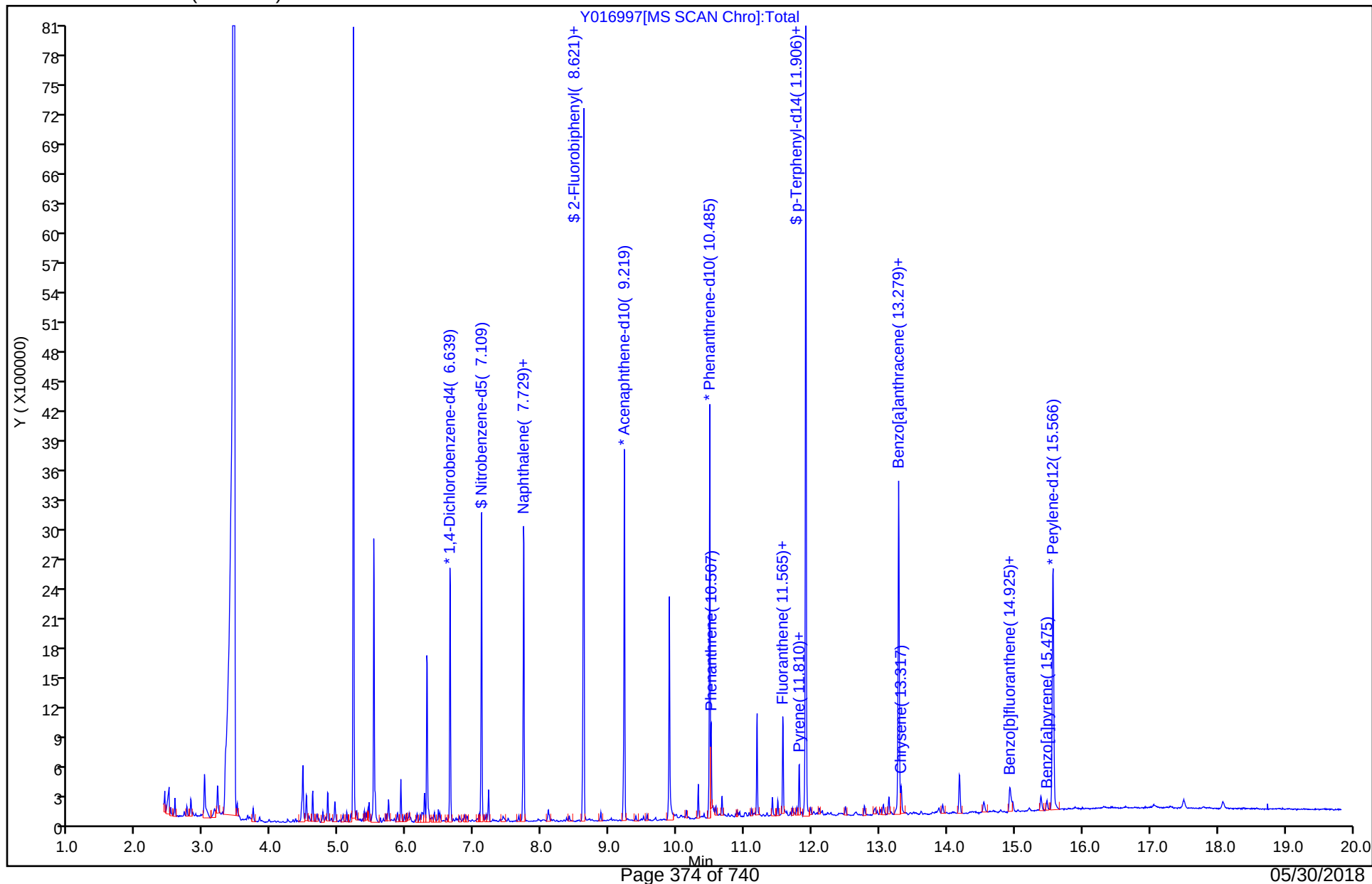
Dil. Factor: 1.0000

ALS Bottle#: 46

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

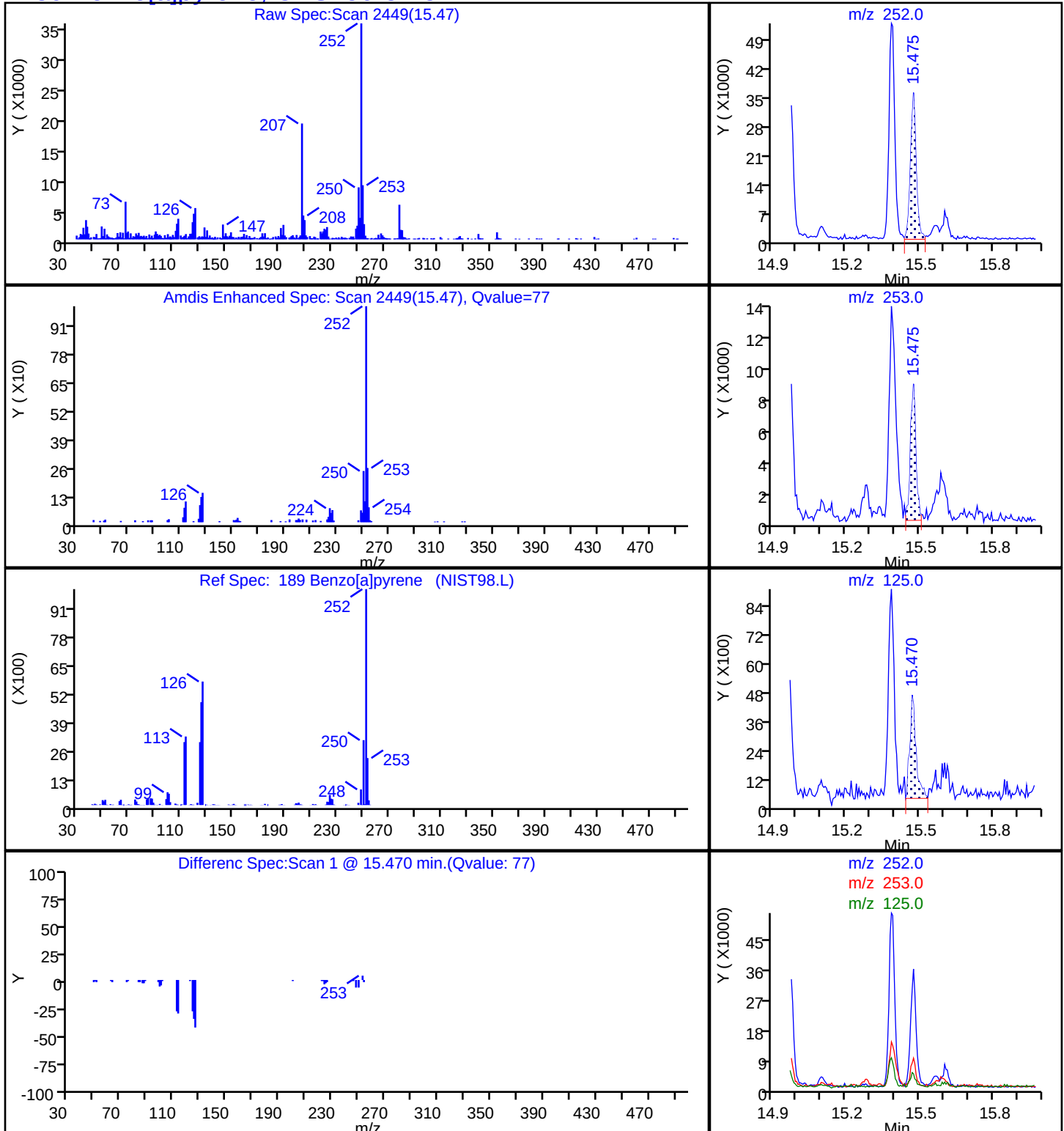
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

189 Benzo[a]pyrene, CAS: 50-32-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

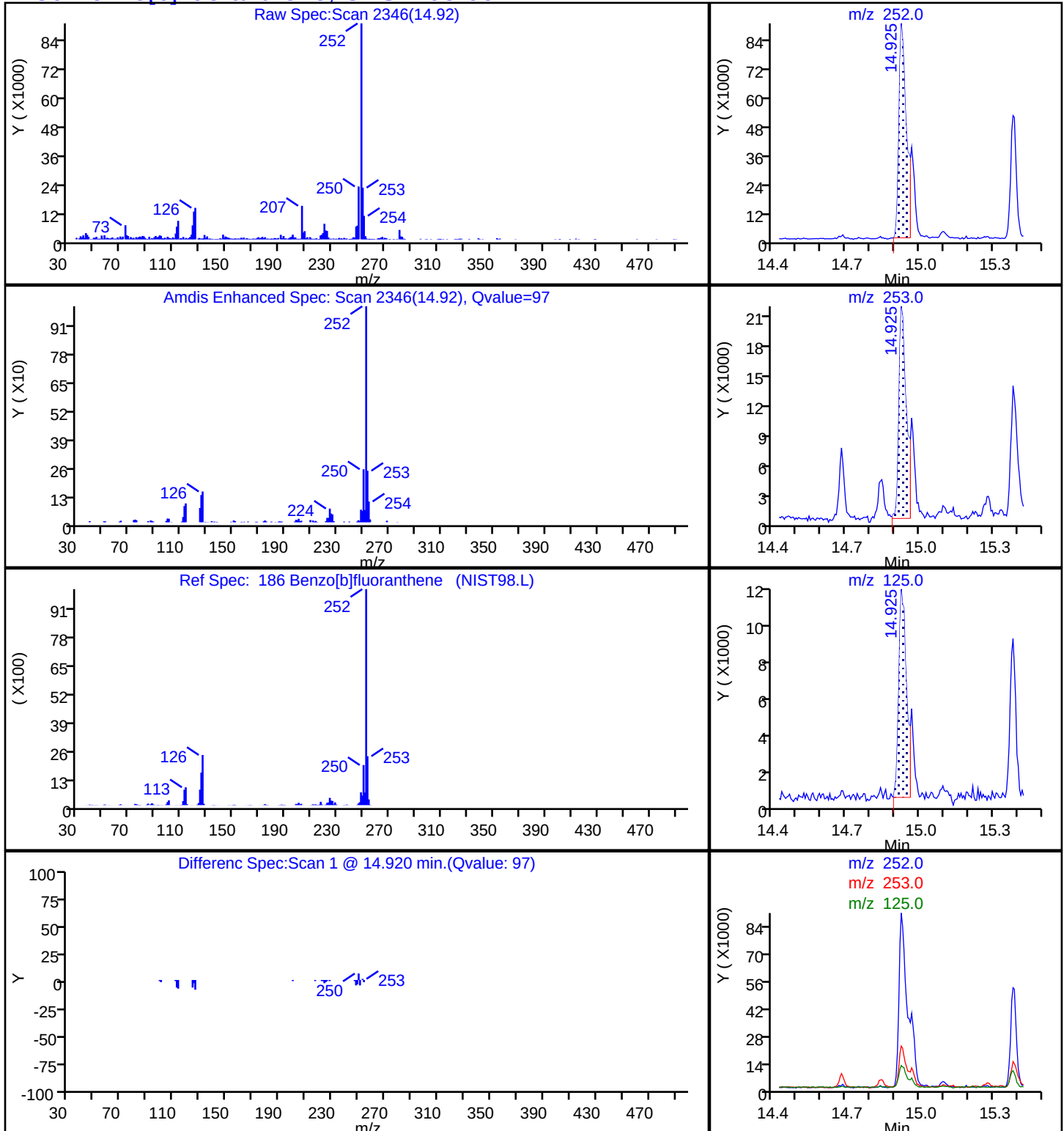
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

186 Benzo[b]fluoranthene, CAS: 205-99-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

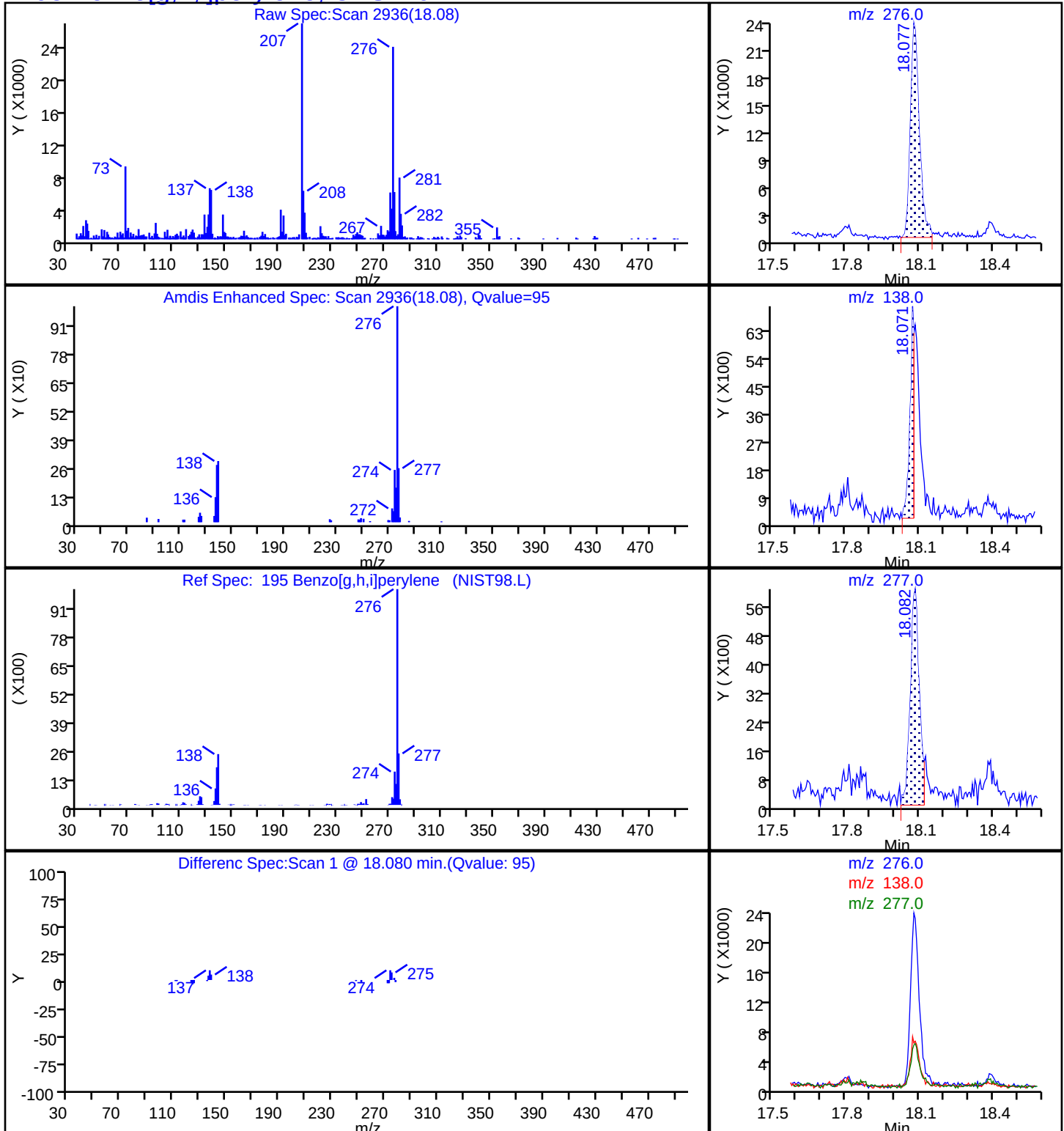
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

195 Benzo[g,h,i]perylene, CAS: 191-24-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

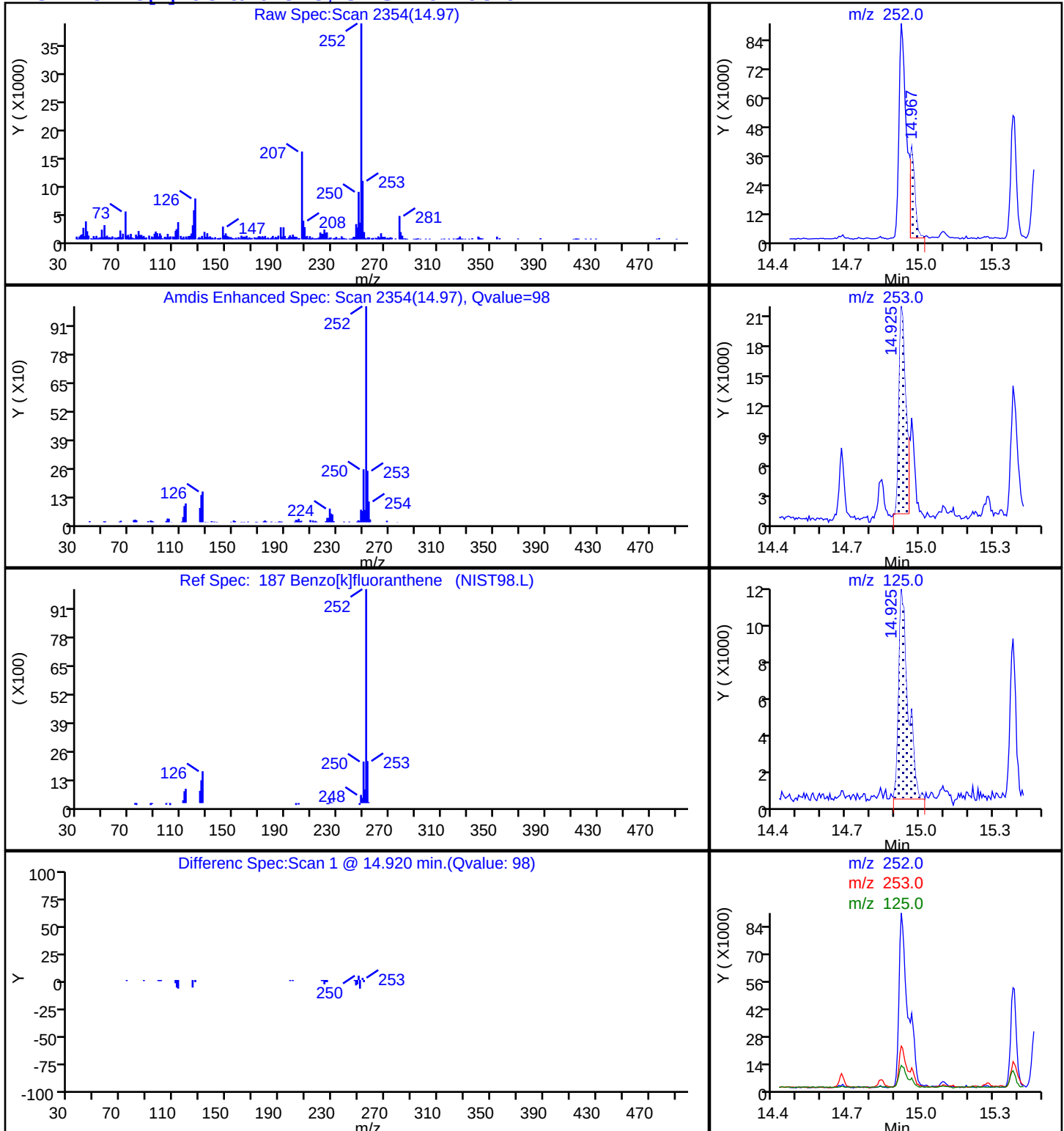
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

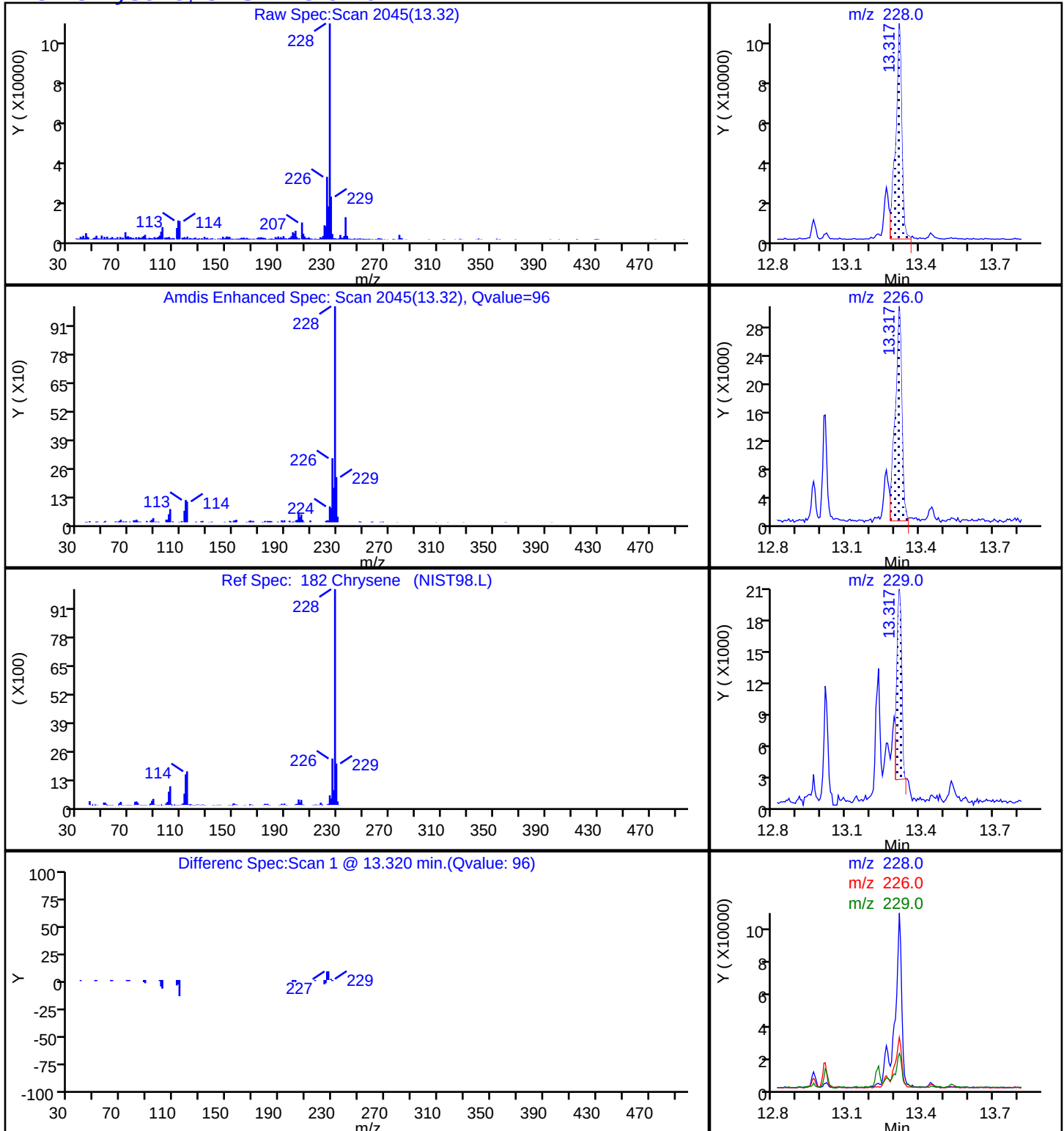
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

182 Chrysene, CAS: 218-01-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

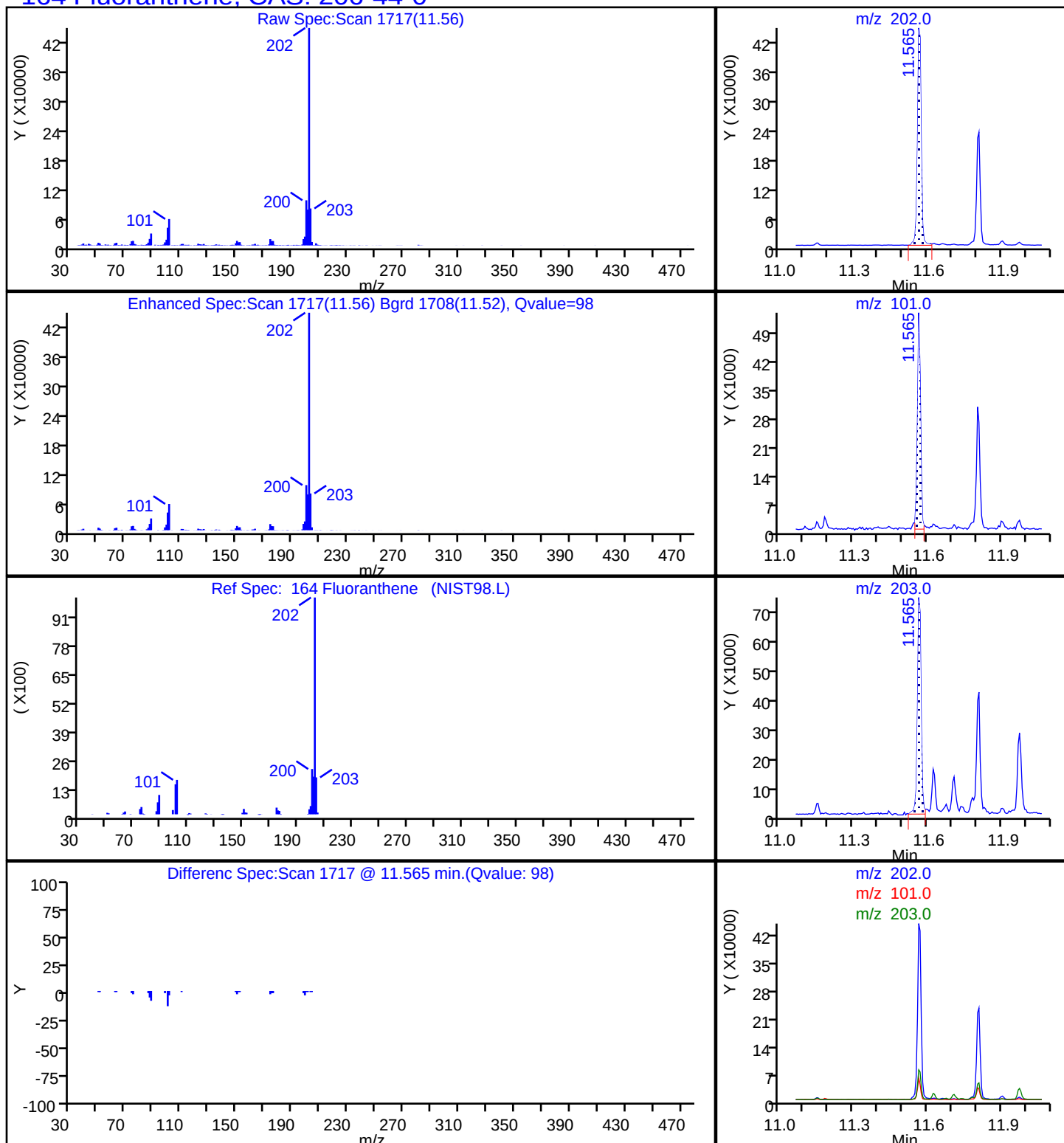
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

164 Fluoranthene, CAS: 206-44-0

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973Y\\20180419-70775.b\\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

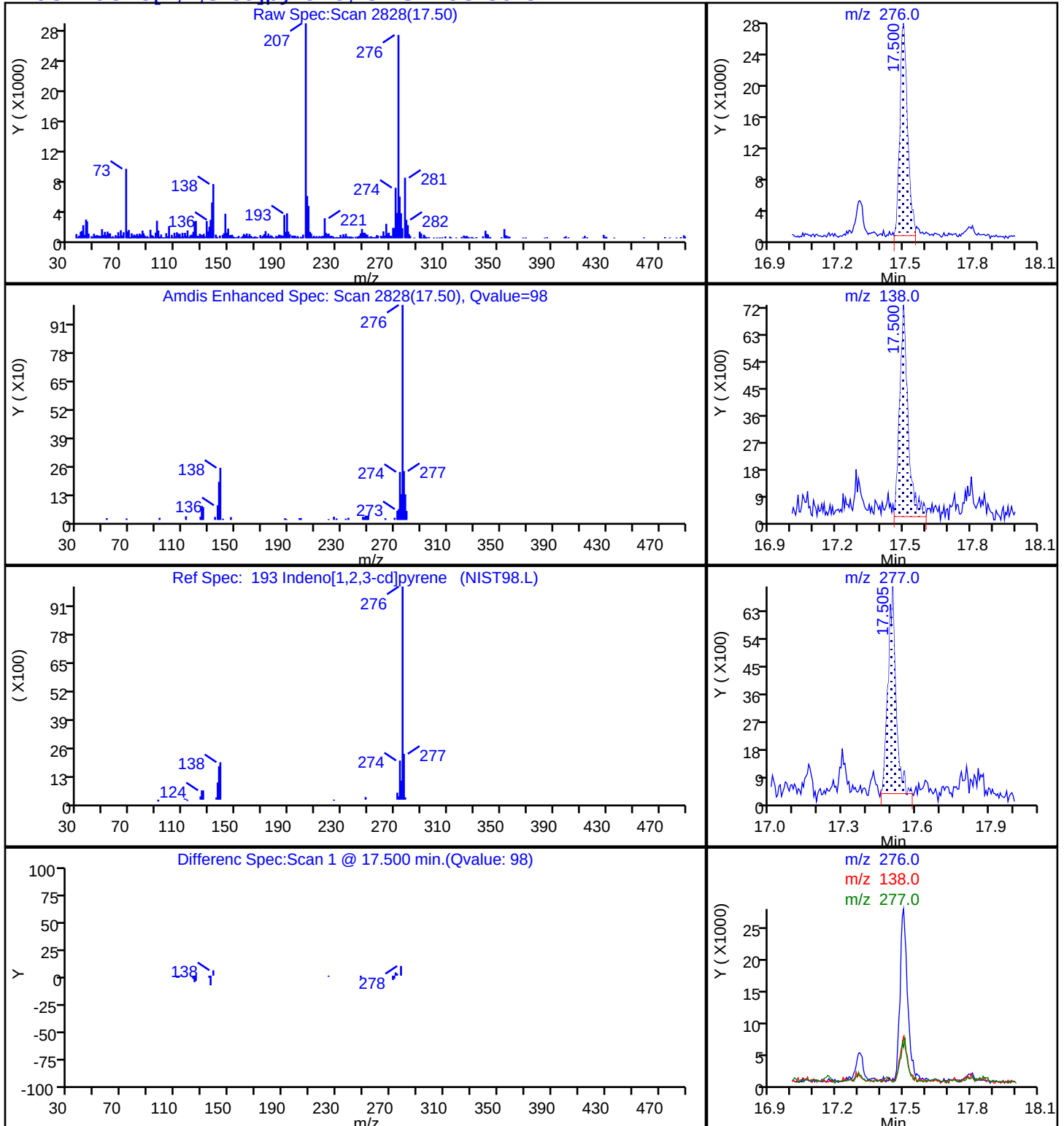
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973Y\\20180419-70775.b\\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

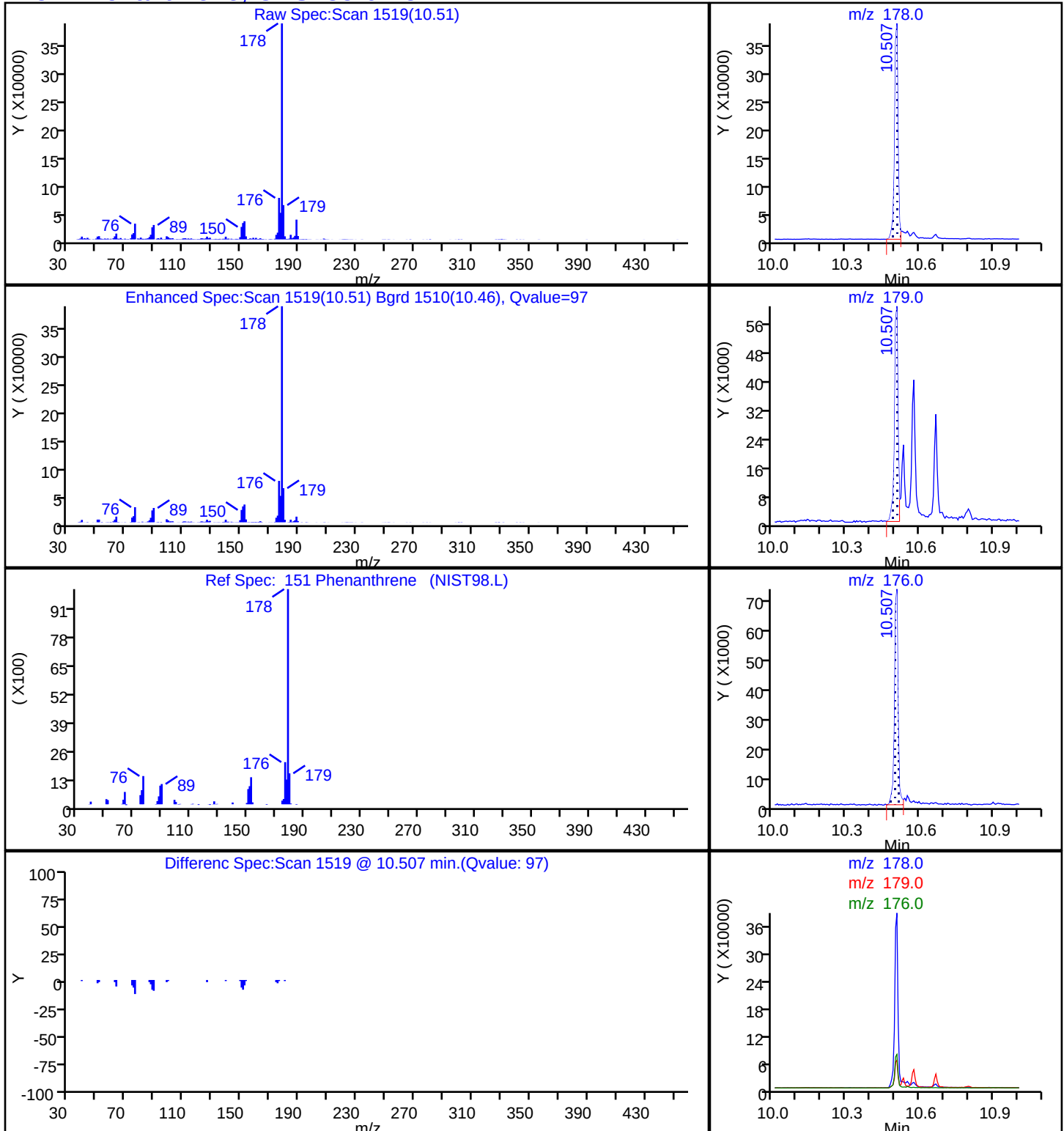
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

151 Phenanthrene, CAS: 85-01-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#: 46

Worklist Smp#: 20

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

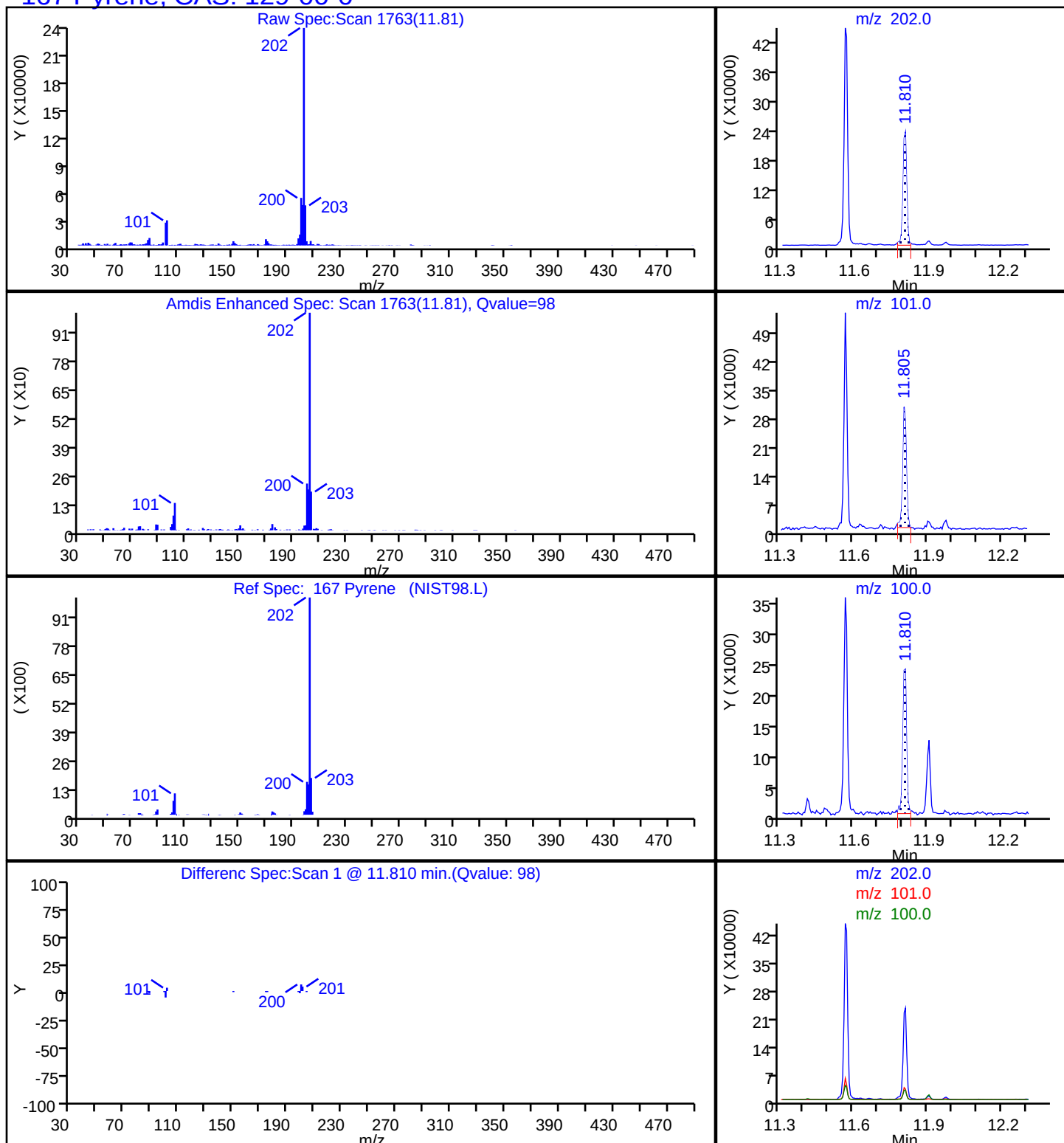
Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

167 Pyrene, CAS: 129-00-0



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#:

46

Worklist Smp#: 20

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

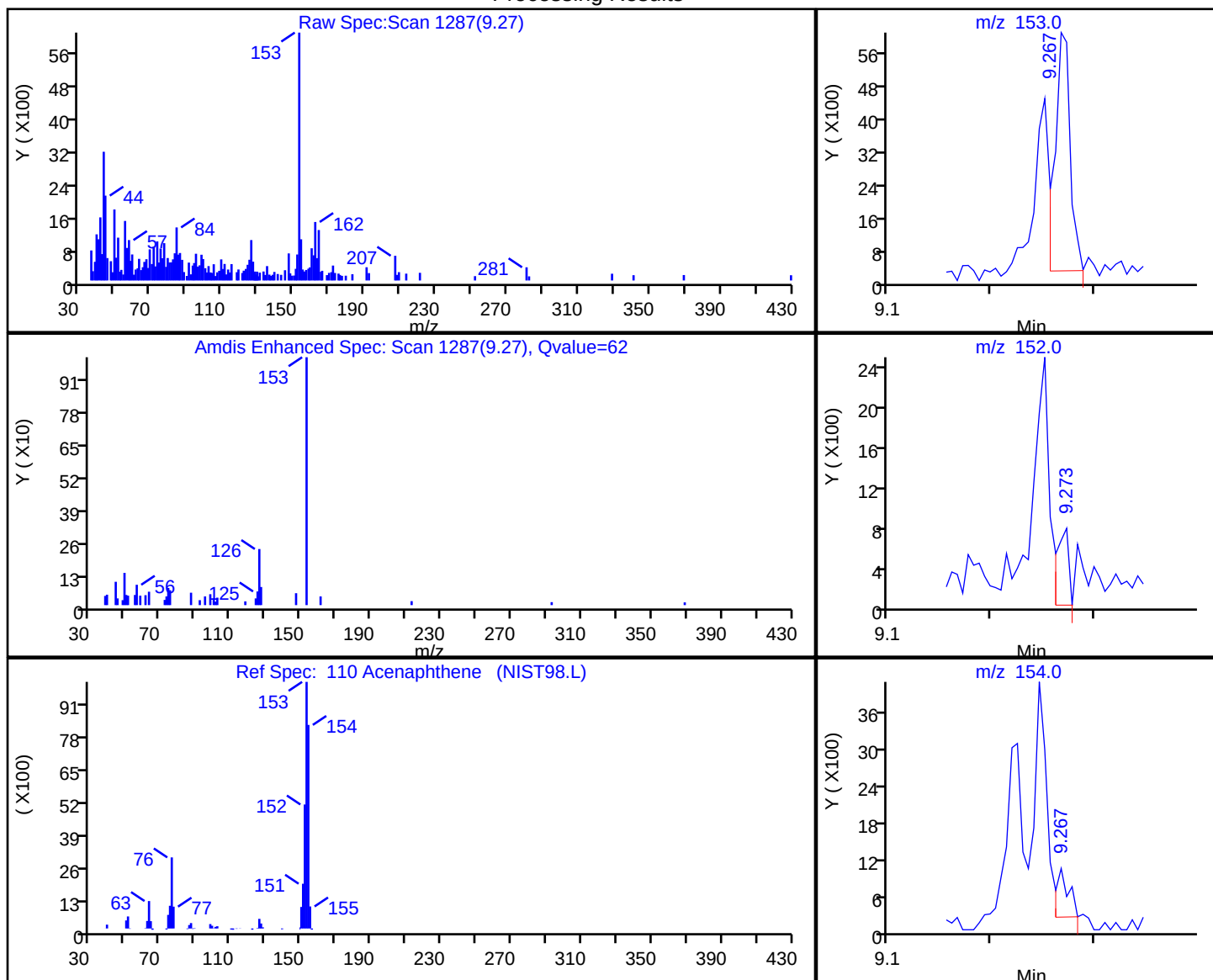
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector MS SCAN

110 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
9.27	153.00	5970	0.021534
9.27	152.00	603	
9.27	154.00	659	

Reviewer: schickr, 20-Apr-2018 11:46:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#:

46

Worklist Smp#: 20

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

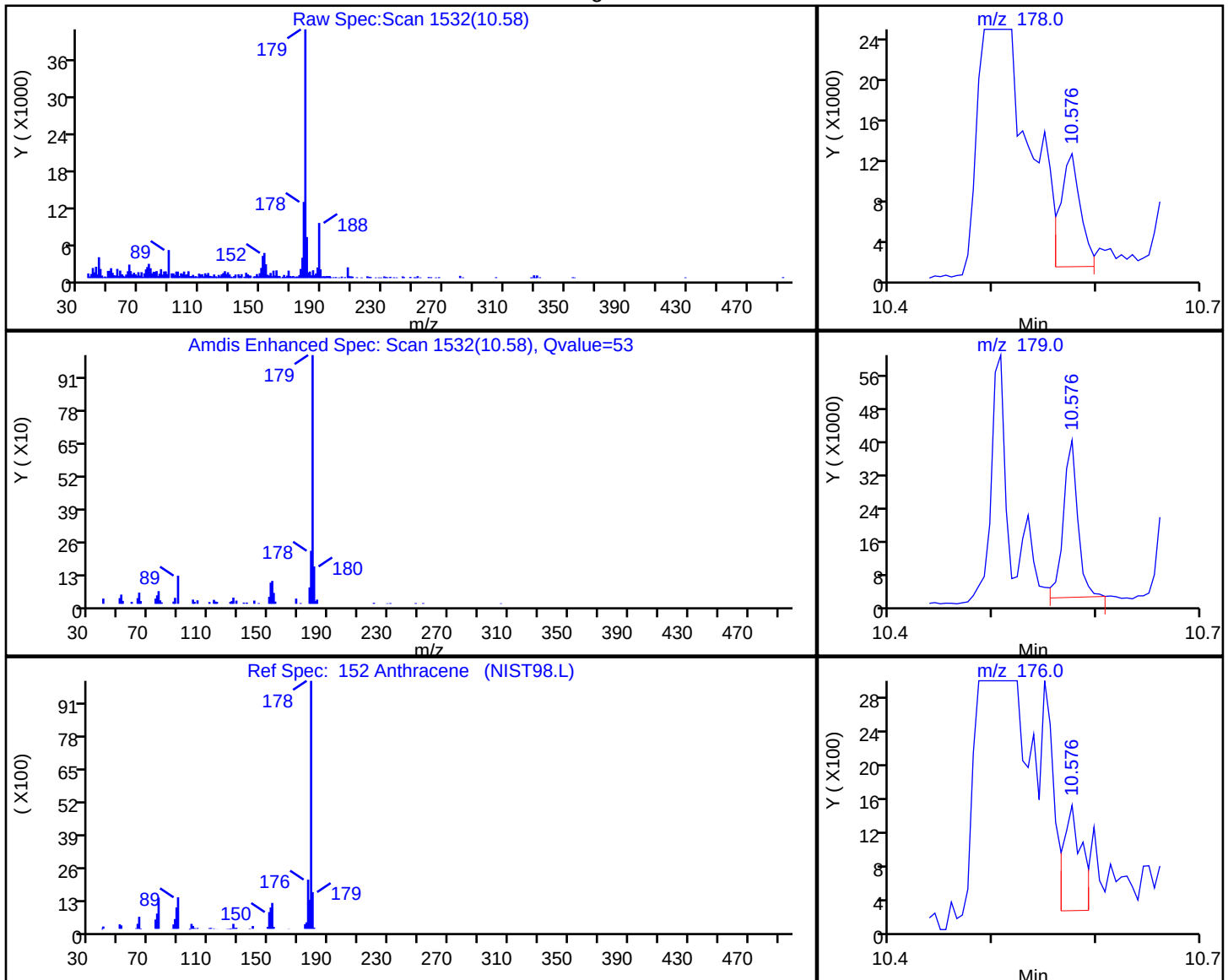
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
10.58	178.00	15271	0.035029
10.58	179.00	37465	
10.58	176.00	1564	

Reviewer: schickr, 20-Apr-2018 11:46:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

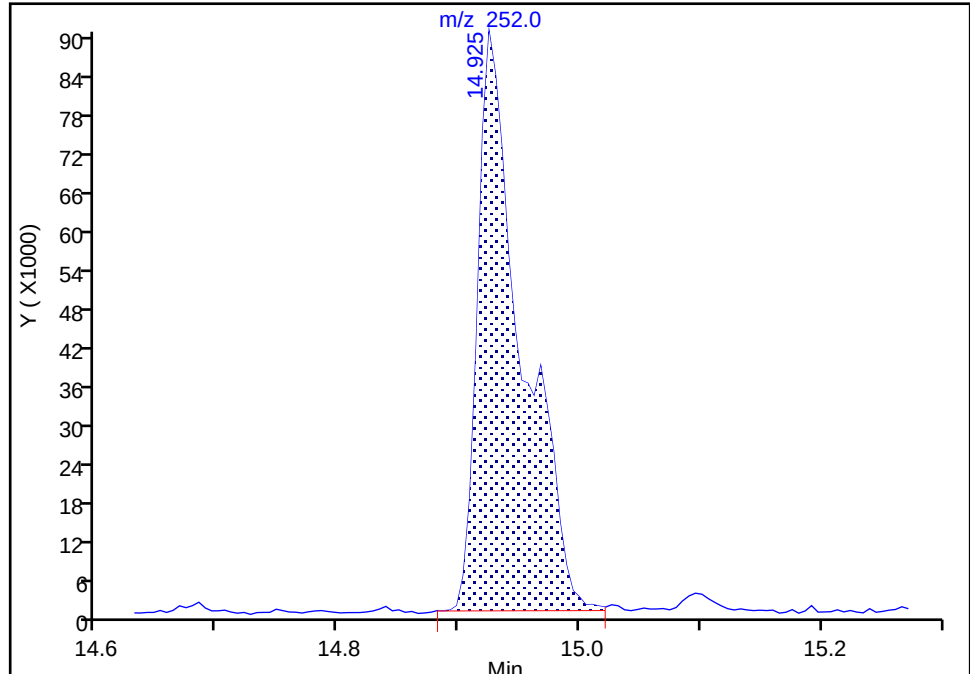
Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D		
Injection Date:	20-Apr-2018 09:32:30	Instrument ID:	HP5973Y
Lims ID:	480-134358-A-7-A	Lab Sample ID:	480-134358-7
Client ID:	MW-10		
Operator ID:	BS	ALS Bottle#:	46
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	20

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

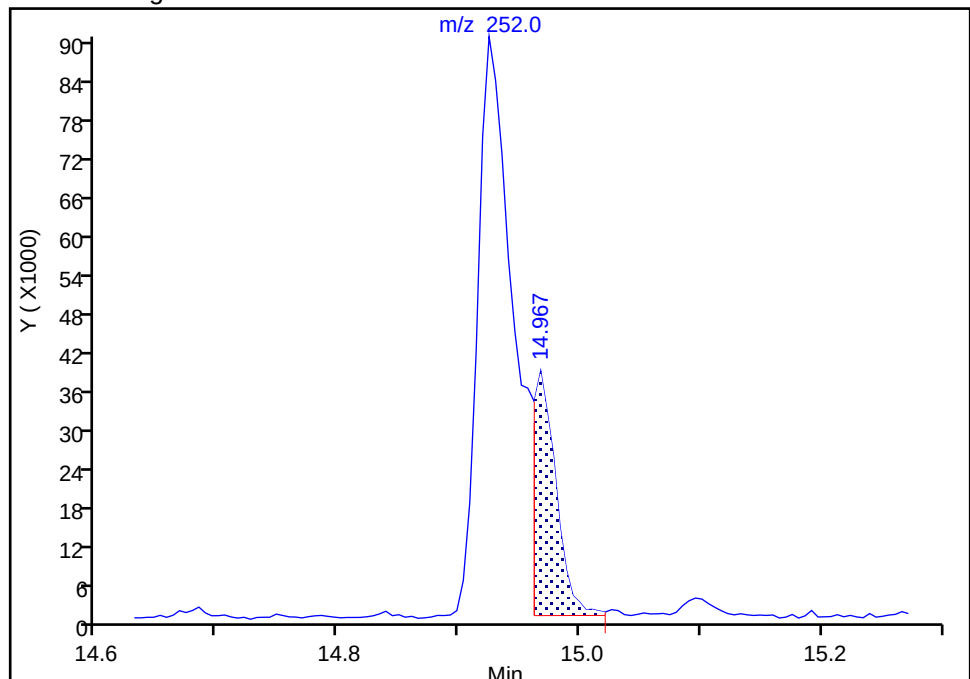
RT: 14.92
Area: 229486
Amount: 0.512576
Amount Units: ng/uL

Processing Integration Results



RT: 14.97
Area: 50537
Amount: 0.126489
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 20-Apr-2018 11:45:32

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016997.D

Injection Date: 20-Apr-2018 09:32:30

Instrument ID: HP5973Y

Lims ID: 480-134358-A-7-A

Lab Sample ID: 480-134358-7

Client ID: MW-10

Operator ID: BS

ALS Bottle#:

46

Worklist Smp#: 20

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

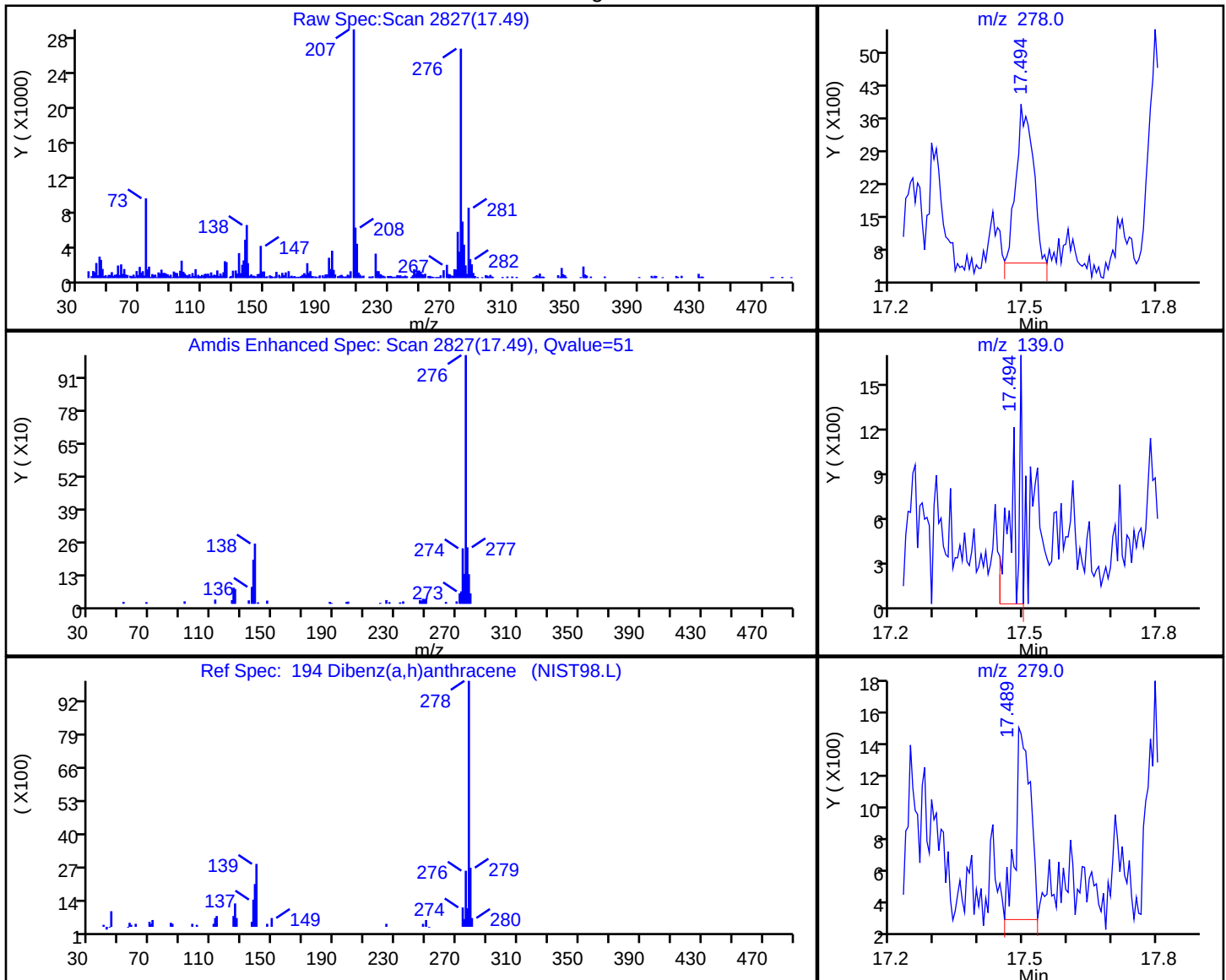
Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

194 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
17.49	278.00	8908	0.052057
17.49	139.00	1870	
17.49	279.00	2824	

Reviewer: schickr, 20-Apr-2018 11:46:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-17</u>	Lab Sample ID: <u>480-134444-1</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>W3518.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/18/2018 13:25</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>230 (mL)</u>	Date Analyzed: <u>04/21/2018 23:22</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.54	U	0.54	0.41
83-32-9	Acenaphthene	0.54	U	0.54	0.33
208-96-8	Acenaphthylene	0.54	U	0.54	0.37
120-12-7	Anthracene	0.54	U	0.54	0.42
56-55-3	Benzo (a) anthracene	0.54	U	0.54	0.43
50-32-8	Benzo (a) pyrene	0.54	U	0.54	0.36
205-99-2	Benzo (b) fluoranthene	0.54	U	0.54	0.33
191-24-2	Benzo (g, h, i) perylene	0.54	U	0.54	0.40
207-08-9	Benzo (k) fluoranthene	0.54	U	0.54	0.092
218-01-9	Chrysene	0.54	U	0.54	0.35
53-70-3	Dibenz (a, h) anthracene	0.54	U	0.54	0.36
206-44-0	Fluoranthene	0.54	U	0.54	0.39
86-73-7	Fluorene	0.54	U	0.54	0.40
193-39-5	Indeno (1, 2, 3-cd) pyrene	0.54	U	0.54	0.48
91-20-3	Naphthalene	0.54	U	0.54	0.46
85-01-8	Phenanthrene	0.54	U	0.54	0.41
129-00-0	Pyrene	0.54	U	0.54	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	94		48-120
4165-60-0	Nitrobenzene-d5	84		46-120
1718-51-0	p-Terphenyl-d14	85		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3518.D
 Lims ID: 480-134444-B-1-A
 Client ID: MW-17
 Sample Type: Client
 Inject. Date: 21-Apr-2018 23:22:30 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-022
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:38:13 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:38:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	445856	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1727638	4.00	
* 3 Acenaphthene-d10	164	8.955	8.961	-0.006	96	818773	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1338483	4.00	
* 5 Chrysene-d12	240	12.823	12.828	-0.005	99	1113471	4.00	
* 6 Perylene-d12	264	14.960	14.965	-0.005	97	1167912	4.00	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	-0.005	88	1081921	6.70	
\$ 10 2-Fluorobiphenyl	172	8.367	8.363	-0.001	99	2250989	7.52	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	1688911	6.80	
76 Naphthalene	128	7.497	7.497	-0.005	93	9794	0.0211	
89 2-Methylnaphthalene	142		8.074				ND	
107 Acenaphthylene	152		8.843				ND	
109 Acenaphthene	153		8.987				ND	
123 Fluorene	166		9.415				ND	
149 Phenanthrene	178		10.227				ND	U
150 Anthracene	178	10.269	10.269	0.000	91	2605	0.006402	
161 Fluoranthene	202		11.242				ND	
165 Pyrene	202		11.466				ND	
179 Benzo[a]anthracene	228		12.812				ND	
181 Chrysene	228		12.860				ND	
186 Benzo[b]fluoranthene	252		14.367				ND	
187 Benzo[k]fluoranthene	252		14.404				ND	
189 Benzo[a]pyrene	252		14.880				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.696				ND	
194 Dibenzo(a,h)anthracene	278		16.707				ND	
195 Benzo[g,h,i]perylene	276		17.188				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3518.D

Injection Date: 21-Apr-2018 23:22:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: 480-134444-B-1-A

Lab Sample ID: 480-134444-1

Worklist Smp#: 22

Client ID: MW-17

Injection Vol: 2.0 ul

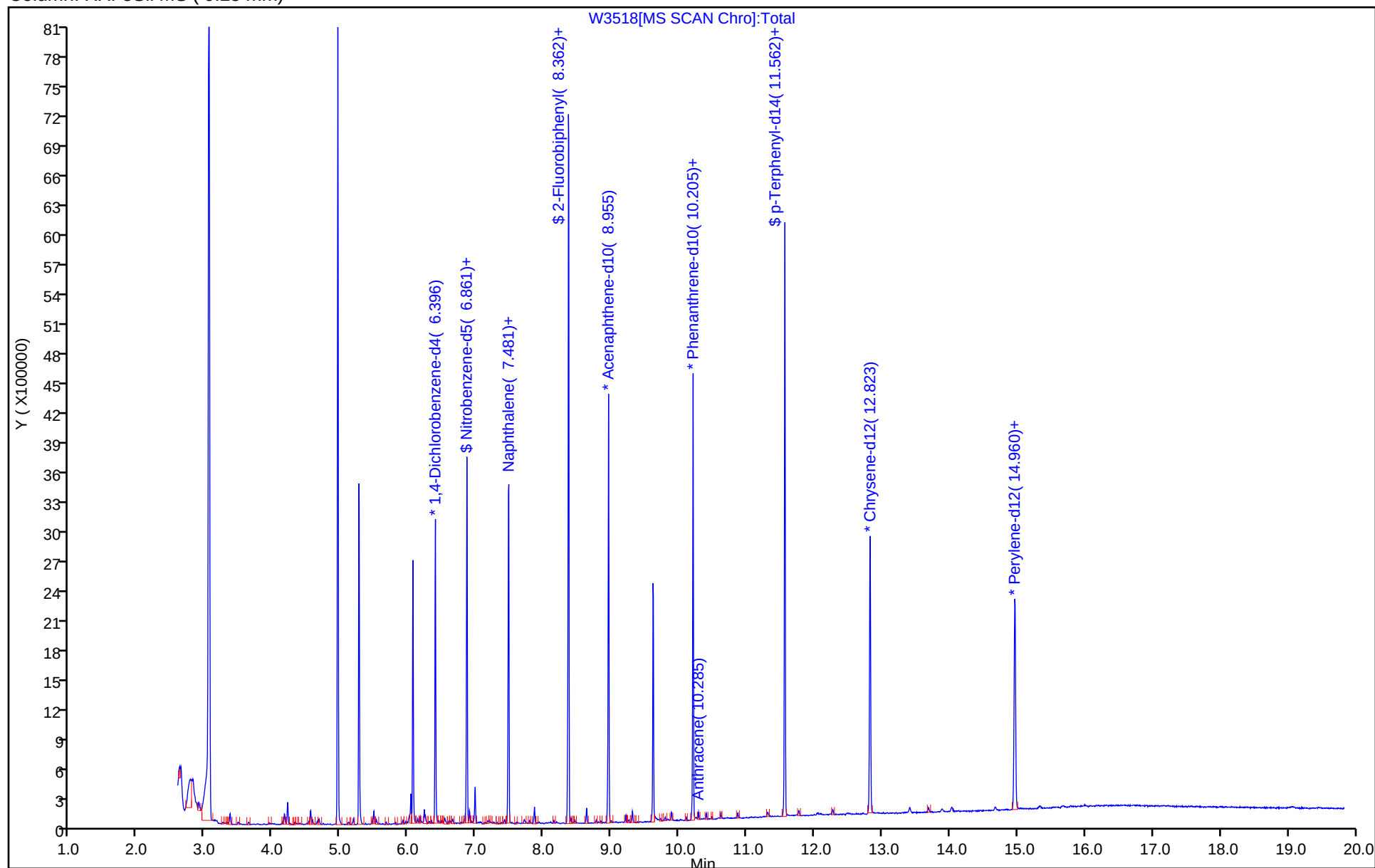
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3518.D

Injection Date: 21-Apr-2018 23:22:30

Instrument ID: HP5973W

Lims ID: 480-134444-B-1-A

Lab Sample ID: 480-134444-1

Client ID: MW-17

Operator ID: PJQ

ALS Bottle#:

22

Worklist Smp#: 22

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

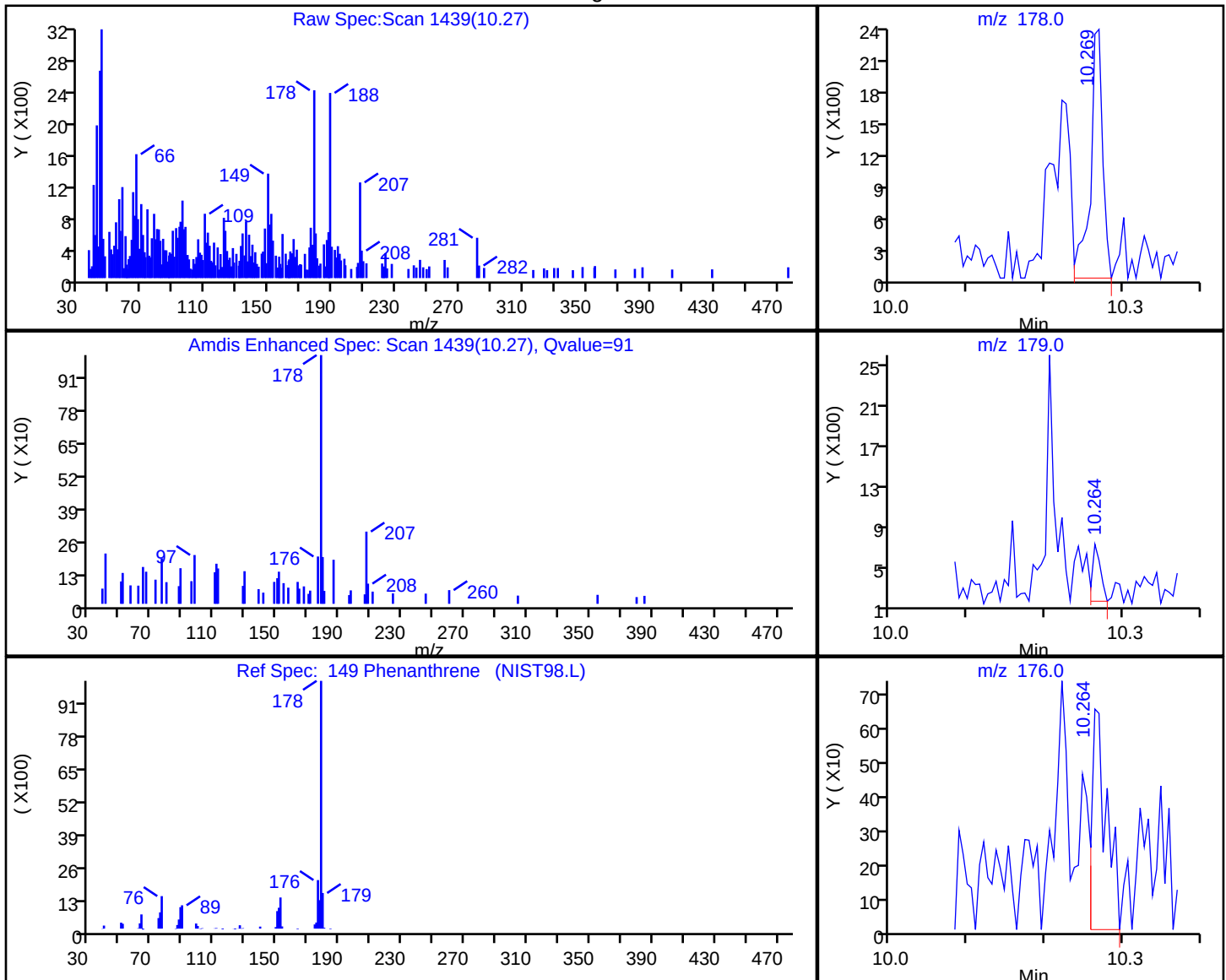
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

149 Phenanthrene, CAS: 85-01-8

Processing Results



RT	Mass	Response	Amount
10.27	178.00	2605	0.006362
10.26	179.00	398	
10.26	176.00	851	

Reviewer: quirkp, 22-Apr-2018 10:38:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-11A</u>	Lab Sample ID: <u>480-134444-4</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>W3519.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/18/2018 10:40</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/21/2018 23:51</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	1.2		0.50	0.30
208-96-8	Acenaphthylene	0.37	J	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.50	U	0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50	U	0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.50	U	0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.50	U	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	90		48-120
4165-60-0	Nitrobenzene-d5	83		46-120
1718-51-0	p-Terphenyl-d14	79		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3519.D
 Lims ID: 480-134444-C-4-A
 Client ID: MW-11A
 Sample Type: Client
 Inject. Date: 21-Apr-2018 23:51:30 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-023
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:38:55 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:38:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	468452	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1801164	4.00	
* 3 Acenaphthene-d10	164	8.955	8.961	-0.006	97	866697	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1435430	4.00	
* 5 Chrysene-d12	240	12.823	12.828	-0.005	99	1172135	4.00	
* 6 Perylene-d12	264	14.965	14.965	0.000	97	1223771	4.00	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	-0.005	88	1111865	6.60	
\$ 10 2-Fluorobiphenyl	172	8.367	8.363	-0.001	99	2291875	7.23	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	1661901	6.36	
76 Naphthalene	128	7.497	7.497	-0.005	95	20049	0.0414	
89 2-Methylnaphthalene	142		8.074				ND	U
107 Acenaphthylene	152	8.838	8.838	-0.005	98	37713	0.0914	
109 Acenaphthene	153	8.982	8.982	-0.005	94	92784	0.2992	
123 Fluorene	166	9.415	9.409	-0.001	96	11115	0.0335	
149 Phenanthrene	178		10.227				ND	
150 Anthracene	178		10.269				ND	Ua
161 Fluoranthene	202	11.242	11.242	0.000	98	27672	0.0665	
165 Pyrene	202	11.461	11.457	-0.005	97	29451	0.0686	
179 Benzo[a]anthracene	228		12.812				ND	
181 Chrysene	228		12.860				ND	
186 Benzo[b]fluoranthene	252		14.367				ND	
187 Benzo[k]fluoranthene	252		14.404				ND	
189 Benzo[a]pyrene	252		14.880				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.696				ND	
194 Dibenzo(a,h)anthracene	278		16.707				ND	
195 Benzo[g,h,i]perylene	276		17.188				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180421-70843.b\\W3519.D

Injection Date: 21-Apr-2018 23:51:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: 480-134444-C-4-A

Lab Sample ID: 480-134444-4

Worklist Smp#: 23

Client ID: MW-11A

Injection Vol: 2.0 ul

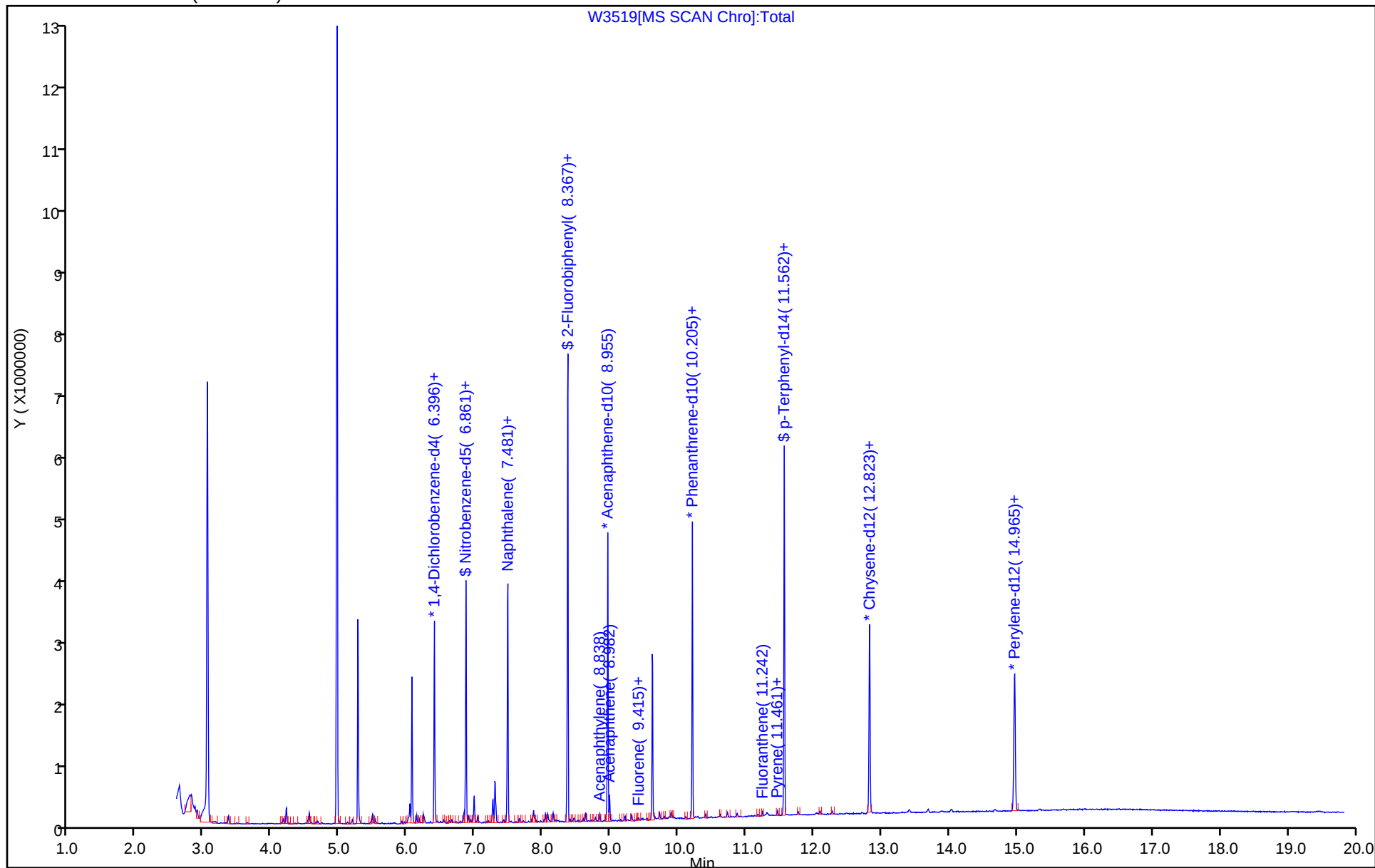
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180421-70843.b\\W3519.D

Injection Date: 21-Apr-2018 23:51:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-4-A

Lab Sample ID: 480-134444-4

Client ID: MW-11A

Operator ID: PJQ

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 2.0 ul

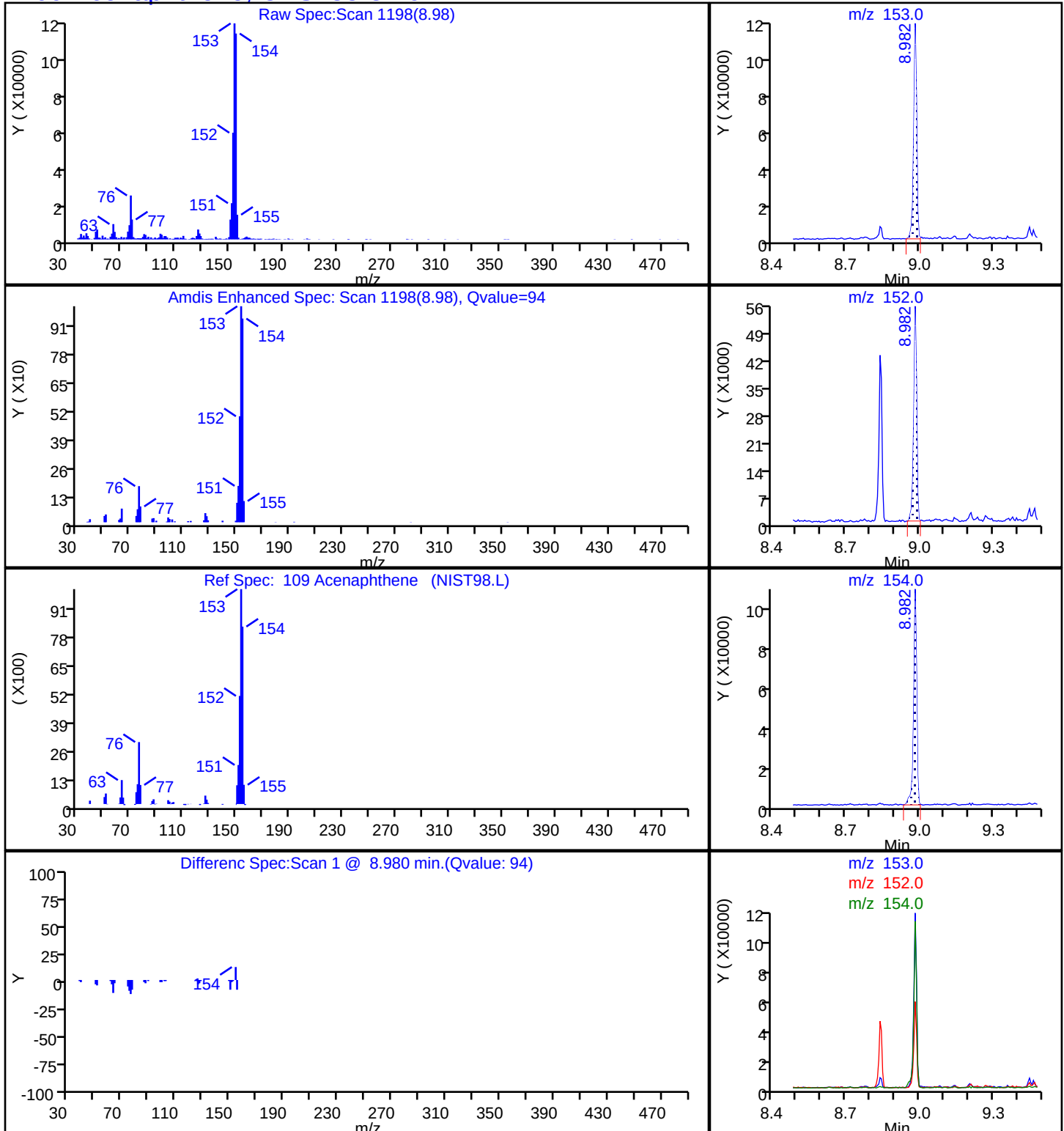
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

109 Acenaphthene, CAS: 83-32-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3519.D

Injection Date: 21-Apr-2018 23:51:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-4-A

Lab Sample ID: 480-134444-4

Client ID: MW-11A

Operator ID: PJQ

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 2.0 ul

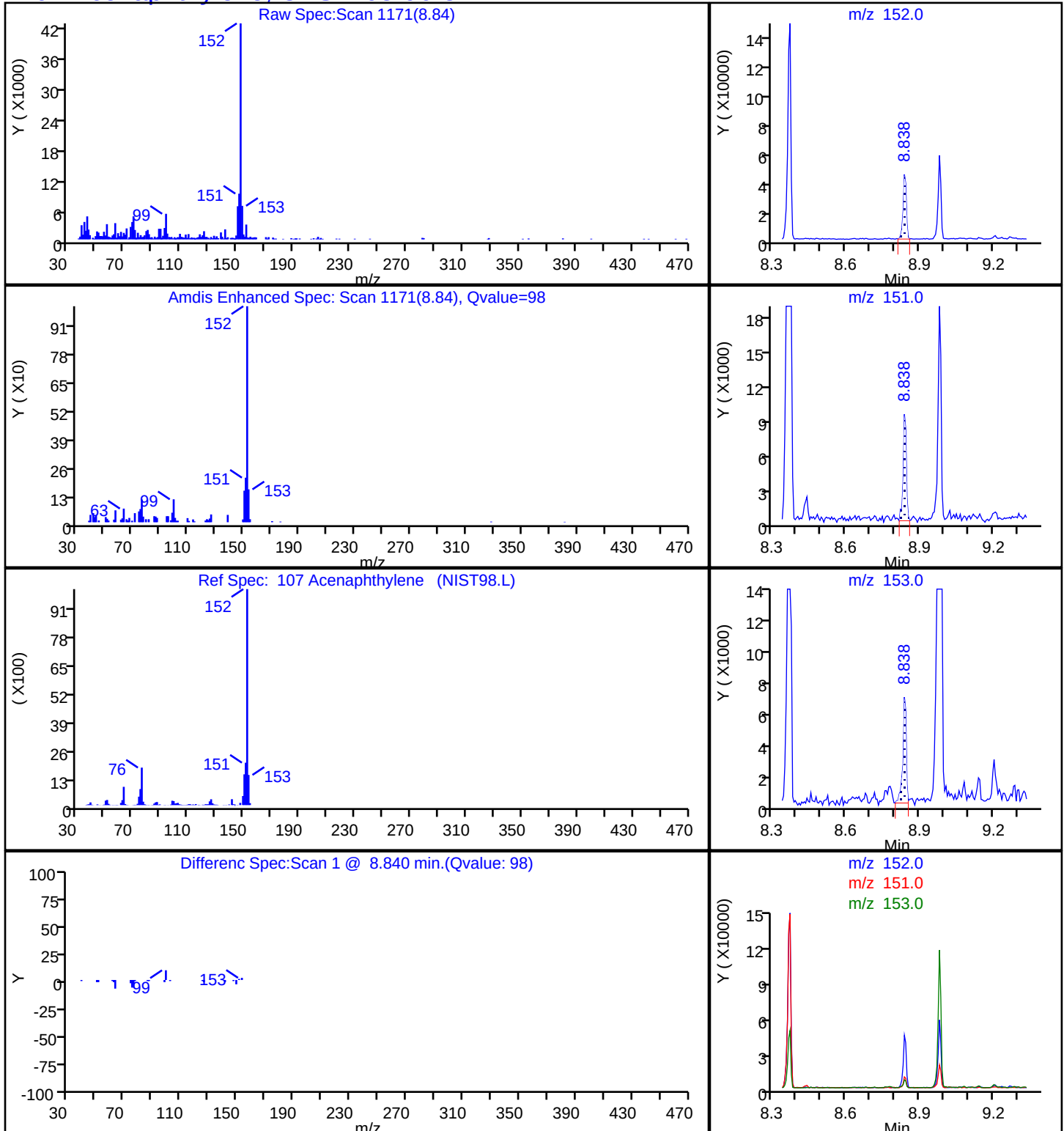
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

107 Acenaphthylene, CAS: 208-96-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3519.D

Injection Date: 21-Apr-2018 23:51:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-4-A

Lab Sample ID: 480-134444-4

Client ID: MW-11A

Operator ID: PJQ

ALS Bottle#:

23

Worklist Smp#: 23

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: W-LVI-8270

Limit Group:

MB - 8270D ICAL

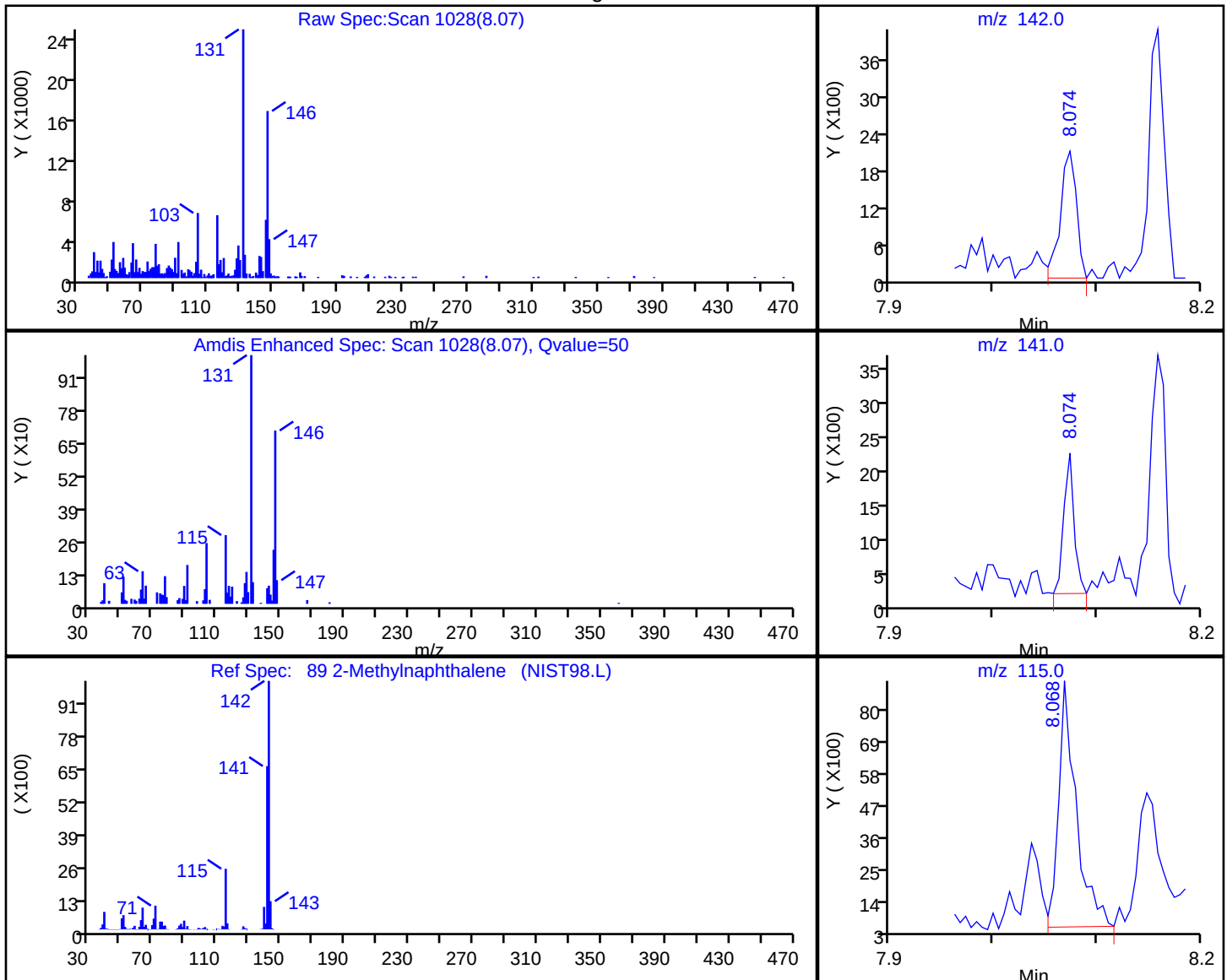
Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

89 2-Methylnaphthalene, CAS: 91-57-6

Processing Results



RT	Mass	Response	Amount
8.07	142.00	2264	0.006683
8.07	141.00	1422	
8.07	115.00	10028	

Reviewer: quirkp, 22-Apr-2018 10:38:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>MW-19</u>	Lab Sample ID: <u>480-134444-5</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>W3520.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/18/2018 10:35</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>240 (mL)</u>	Date Analyzed: <u>04/22/2018 00:19</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>250</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	130	U	130	99
83-32-9	Acenaphthene	130	U	130	78
208-96-8	Acenaphthylene	130	U	130	89
120-12-7	Anthracene	130	U	130	100
56-55-3	Benzo (a) anthracene	130	U	130	100
50-32-8	Benzo (a) pyrene	130	U	130	86
205-99-2	Benzo (b) fluoranthene	130	U	130	78
191-24-2	Benzo (g,h,i) perylene	130	U	130	96
207-08-9	Benzo (k) fluoranthene	130	U	130	22
218-01-9	Chrysene	130	U	130	83
53-70-3	Dibenz (a,h) anthracene	130	U	130	86
206-44-0	Fluoranthene	130	U	130	94
86-73-7	Fluorene	130	U	130	96
193-39-5	Indeno (1,2,3-cd) pyrene	130	U	130	110
91-20-3	Naphthalene	4700		130	110
85-01-8	Phenanthrene	130	U	130	99
129-00-0	Pyrene	130	U	130	94

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	99		48-120
4165-60-0	Nitrobenzene-d5	107		46-120
1718-51-0	p-Terphenyl-d14	70		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3520.D
 Lims ID: 480-134444-A-5-A
 Client ID: MW-19
 Sample Type: Client
 Inject. Date: 22-Apr-2018 00:19:30 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 2.0 ul Dil. Factor: 250.0000
 Sample Info: 480-0070843-024
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:38:55 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:39:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	449013	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1756132	4.00	
* 3 Acenaphthene-d10	164	8.955	8.961	-0.006	97	827758	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1323478	4.00	
* 5 Chrysene-d12	240	12.818	12.828	-0.010	99	1122604	4.00	
* 6 Perylene-d12	264	14.960	14.965	-0.005	97	1164790	4.00	
\$ 9 Nitrobenzene-d5	82	6.866	6.861	0.000	57	4353	0.0343	
\$ 10 2-Fluorobiphenyl	172	8.362	8.363	-0.006	97	9627	0.0318	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	98	5635	0.0225	
76 Naphthalene	128	7.497	7.497	-0.005	97	2125960	4.50	
89 2-Methylnaphthalene	142	8.074	8.068	0.000	94	12241	0.0371	
107 Acenaphthylene	152		8.843				ND	
109 Acenaphthene	153		8.987				ND	
123 Fluorene	166		9.415				ND	
149 Phenanthrene	178		10.227				ND	
150 Anthracene	178		10.269				ND	
161 Fluoranthene	202		11.242				ND	
165 Pyrene	202		11.466				ND	
179 Benzo[a]anthracene	228		12.812				ND	
181 Chrysene	228		12.860				ND	
186 Benzo[b]fluoranthene	252		14.367				ND	
187 Benzo[k]fluoranthene	252		14.404				ND	
189 Benzo[a]pyrene	252		14.880				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.696				ND	
194 Dibenzo[a,h]anthracene	278		16.707				ND	
195 Benzo[g,h,i]perylene	276		17.188				ND	

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180421-70843.b\\W3520.D

Injection Date: 22-Apr-2018 00:19:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: 480-134444-A-5-A

Lab Sample ID: 480-134444-5

Worklist Smp#: 24

Client ID: MW-19

Injection Vol: 2.0 ul

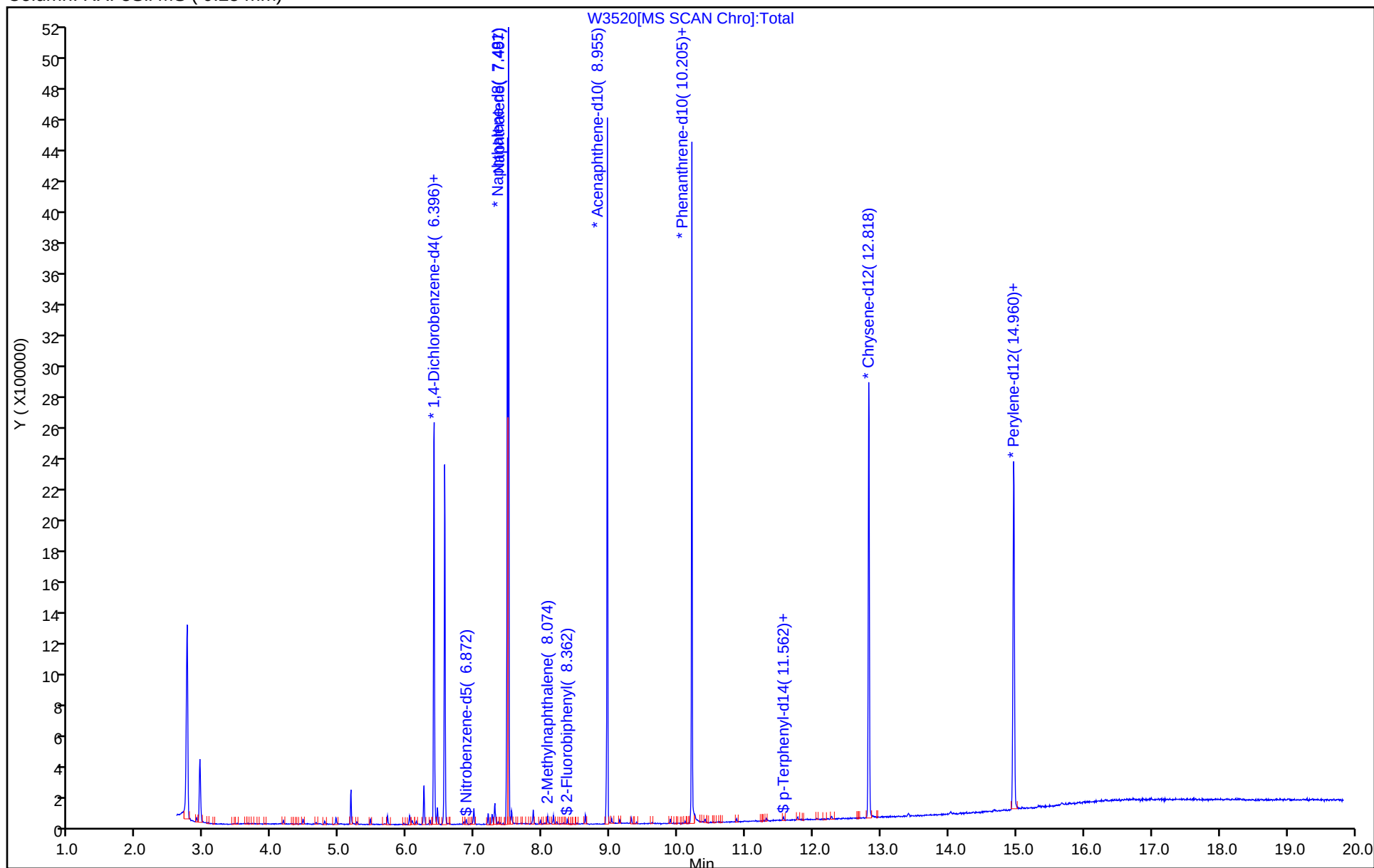
Dil. Factor: 250.0000

ALS Bottle#: 24

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3520.D

Injection Date: 22-Apr-2018 00:19:30

Instrument ID: HP5973W

Lims ID: 480-134444-A-5-A

Lab Sample ID: 480-134444-5

Client ID: MW-19

Operator ID: PJQ

ALS Bottle#: 24

Worklist Smp#: 24

Injection Vol: 2.0 ul

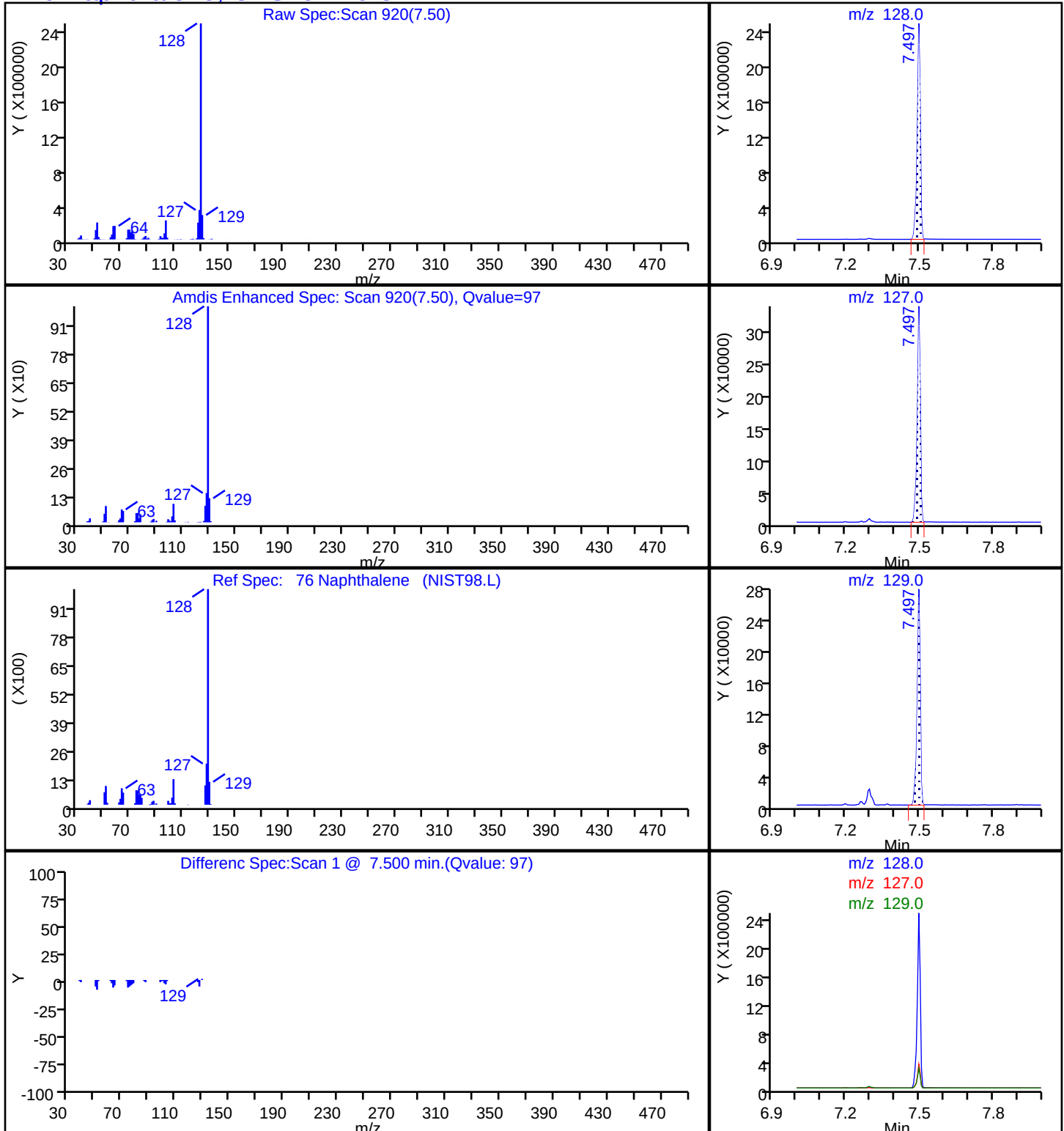
Dil. Factor: 250.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

76 Naphthalene, CAS: 91-20-3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>SW-01</u>	Lab Sample ID: <u>480-134444-6</u>
Matrix: <u>Surface Water</u>	Lab File ID: <u>W3521.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/18/2018 14:15</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/22/2018 00:47</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.50	U	0.50	0.30
191-24-2	Benzo (g, h, i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50	U	0.50	0.32
53-70-3	Dibenz (a, h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.50	U	0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1, 2, 3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	2.2		0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.50	U	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	98		48-120
4165-60-0	Nitrobenzene-d5	89		46-120
1718-51-0	p-Terphenyl-d14	87		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3521.D
 Lims ID: 480-134444-B-6-A
 Client ID: SW-01
 Sample Type: Client
 Inject. Date: 22-Apr-2018 00:47:30 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-025
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:40:14 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:40:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	475020	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1828166	4.00	
* 3 Acenaphthene-d10	164	8.955	8.961	-0.006	96	873470	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1430715	4.00	
* 5 Chrysene-d12	240	12.818	12.828	-0.010	99	1186032	4.00	
* 6 Perylene-d12	264	14.960	14.965	-0.005	97	1223966	4.00	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	-0.005	88	1215549	7.11	
\$ 10 2-Fluorobiphenyl	172	8.362	8.363	-0.006	99	2495037	7.81	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	1830598	6.92	
76 Naphthalene	128	7.497	7.497	-0.005	97	269837	0.5484	
89 2-Methylnaphthalene	142	8.074	8.068	0.000	91	4105	0.0119	
107 Acenaphthylene	152		8.843				ND	
109 Acenaphthene	153		8.987				ND	
123 Fluorene	166		9.415				ND	U
149 Phenanthrene	178		10.227				ND	
150 Anthracene	178		10.269				ND	
161 Fluoranthene	202	11.236	11.242	-0.006	97	13447	0.0324	
165 Pyrene	202	11.461	11.457	-0.005	94	7967	0.0183	
179 Benzo[a]anthracene	228		12.812				ND	
181 Chrysene	228		12.860				ND	
186 Benzo[b]fluoranthene	252	14.356	14.356	-0.011	93	5502	0.0141	
187 Benzo[k]fluoranthene	252		14.404				ND	U
189 Benzo[a]pyrene	252		14.880				ND	U
193 Indeno[1,2,3-cd]pyrene	276		16.696				ND	
194 Dibenzo(a,h)anthracene	278		16.707				ND	
195 Benzo[g,h,i]perylene	276		17.188				ND	U

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3521.D

Injection Date: 22-Apr-2018 00:47:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: 480-134444-B-6-A

Lab Sample ID: 480-134444-6

Worklist Smp#: 25

Client ID: SW-01

Injection Vol: 2.0 ul

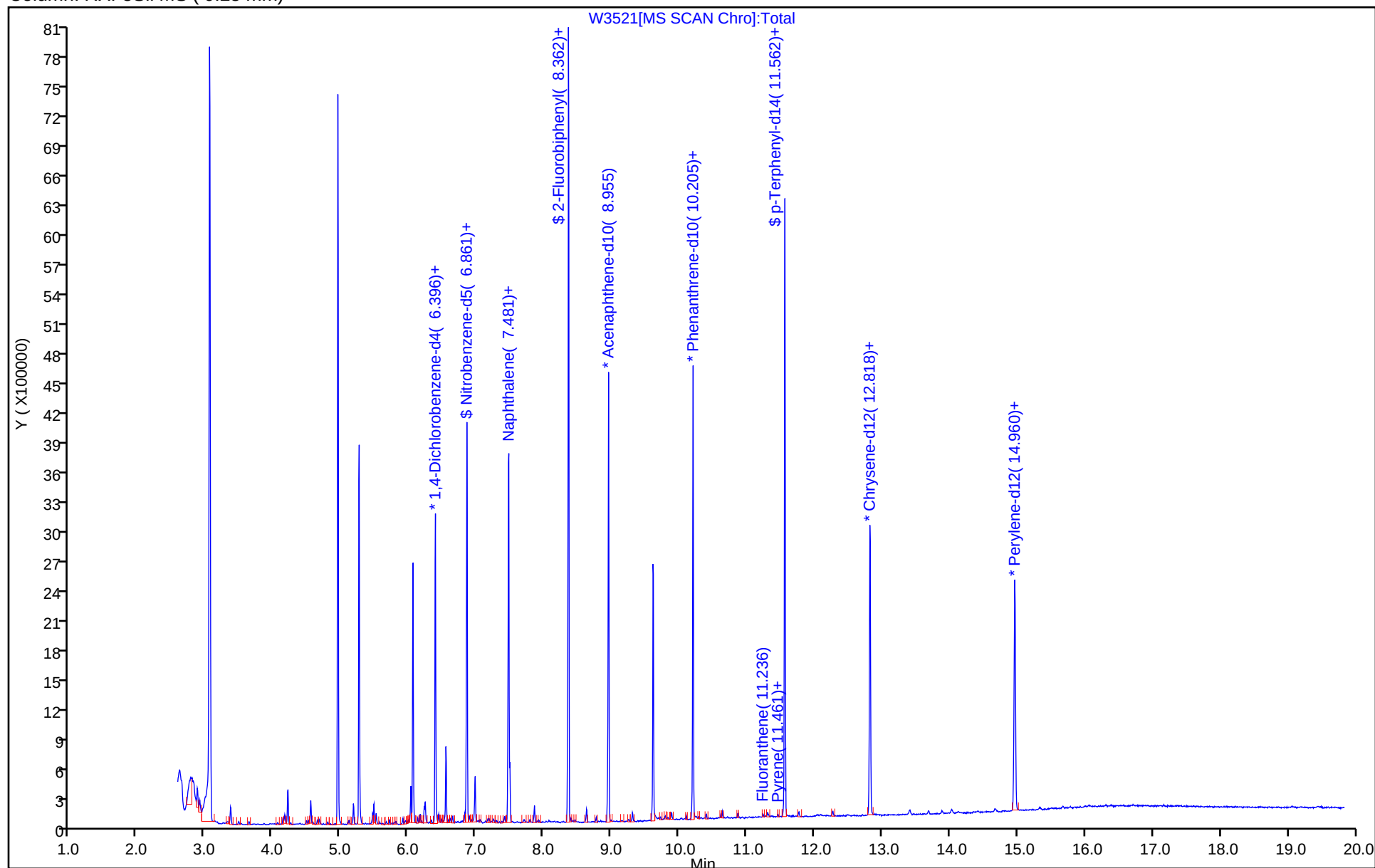
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3521.D

Injection Date: 22-Apr-2018 00:47:30

Instrument ID: HP5973W

Lims ID: 480-134444-B-6-A

Lab Sample ID: 480-134444-6

Client ID: SW-01

Operator ID: PJQ

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 2.0 ul

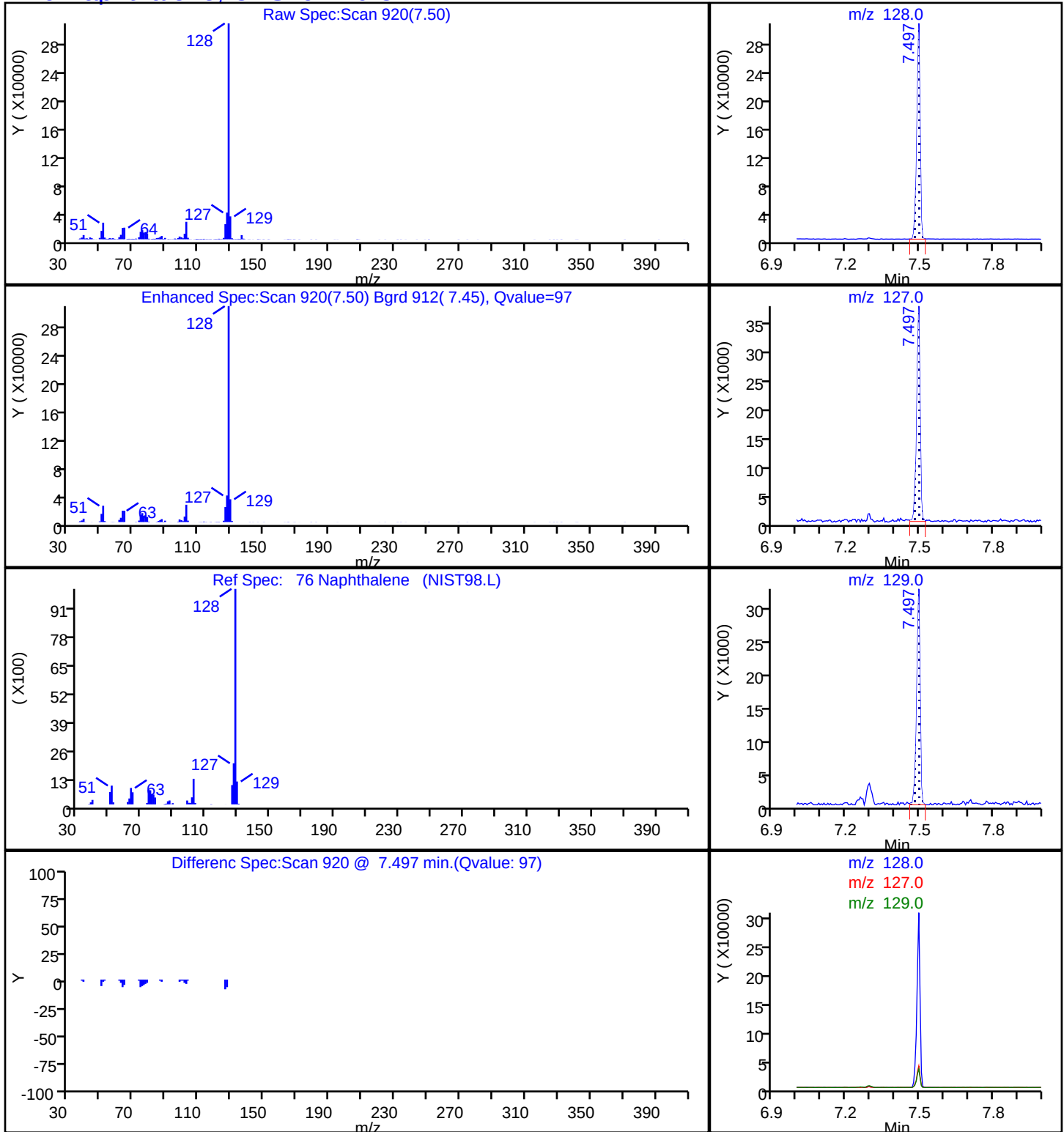
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

76 Naphthalene, CAS: 91-20-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3521.D

Injection Date: 22-Apr-2018 00:47:30

Instrument ID: HP5973W

Lims ID: 480-134444-B-6-A

Lab Sample ID: 480-134444-6

Client ID: SW-01

Operator ID: PJQ

ALS Bottle#:

25

Worklist Smp#: 25

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

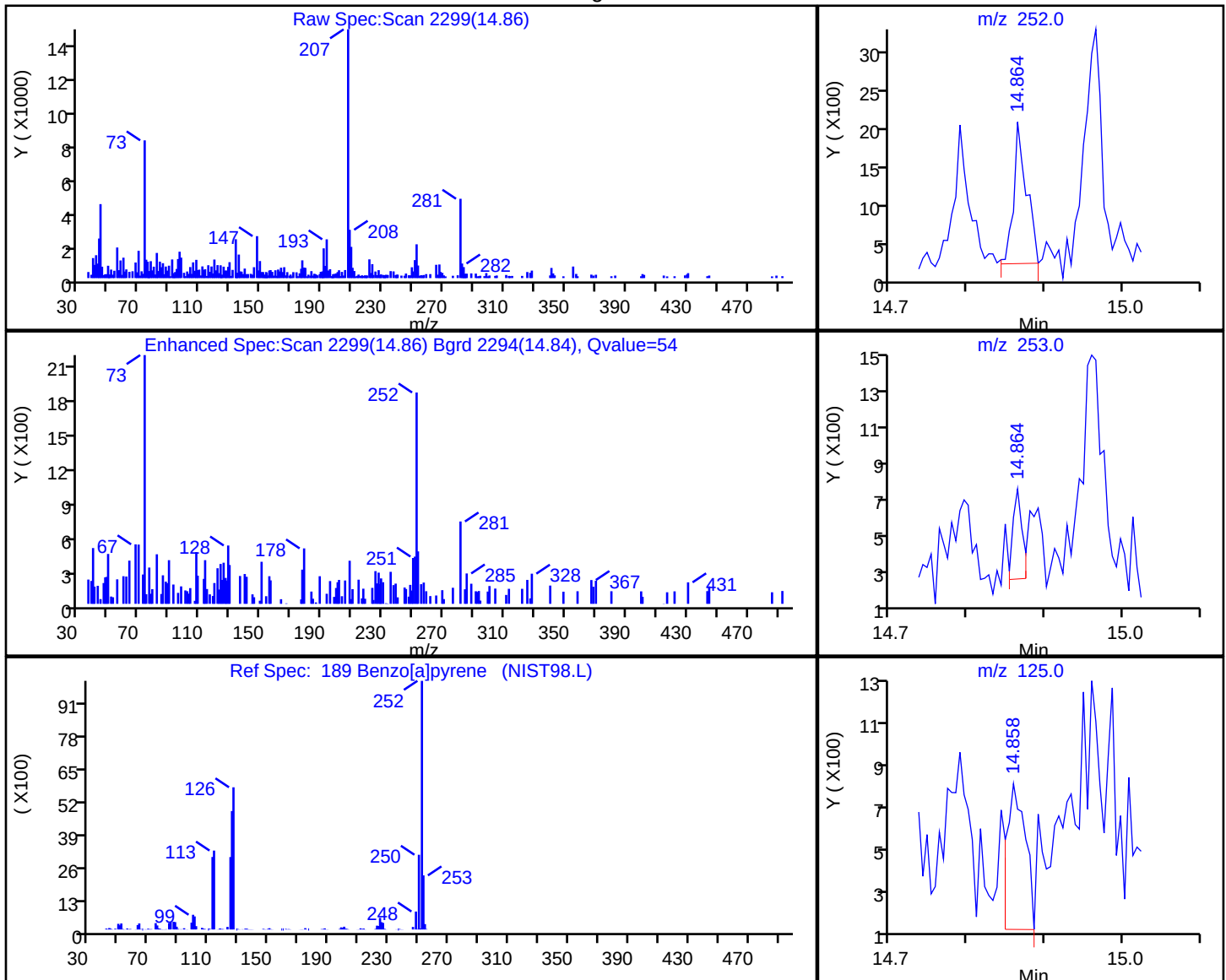
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

189 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
14.86	252.00	2123	0.026787
14.86	253.00	421	
14.86	125.00	1089	

Reviewer: quirkp, 22-Apr-2018 10:40:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3521.D

Injection Date: 22-Apr-2018 00:47:30

Instrument ID: HP5973W

Lims ID: 480-134444-B-6-A

Lab Sample ID: 480-134444-6

Client ID: SW-01

Operator ID: PJQ

ALS Bottle#:

25

Worklist Smp#: 25

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

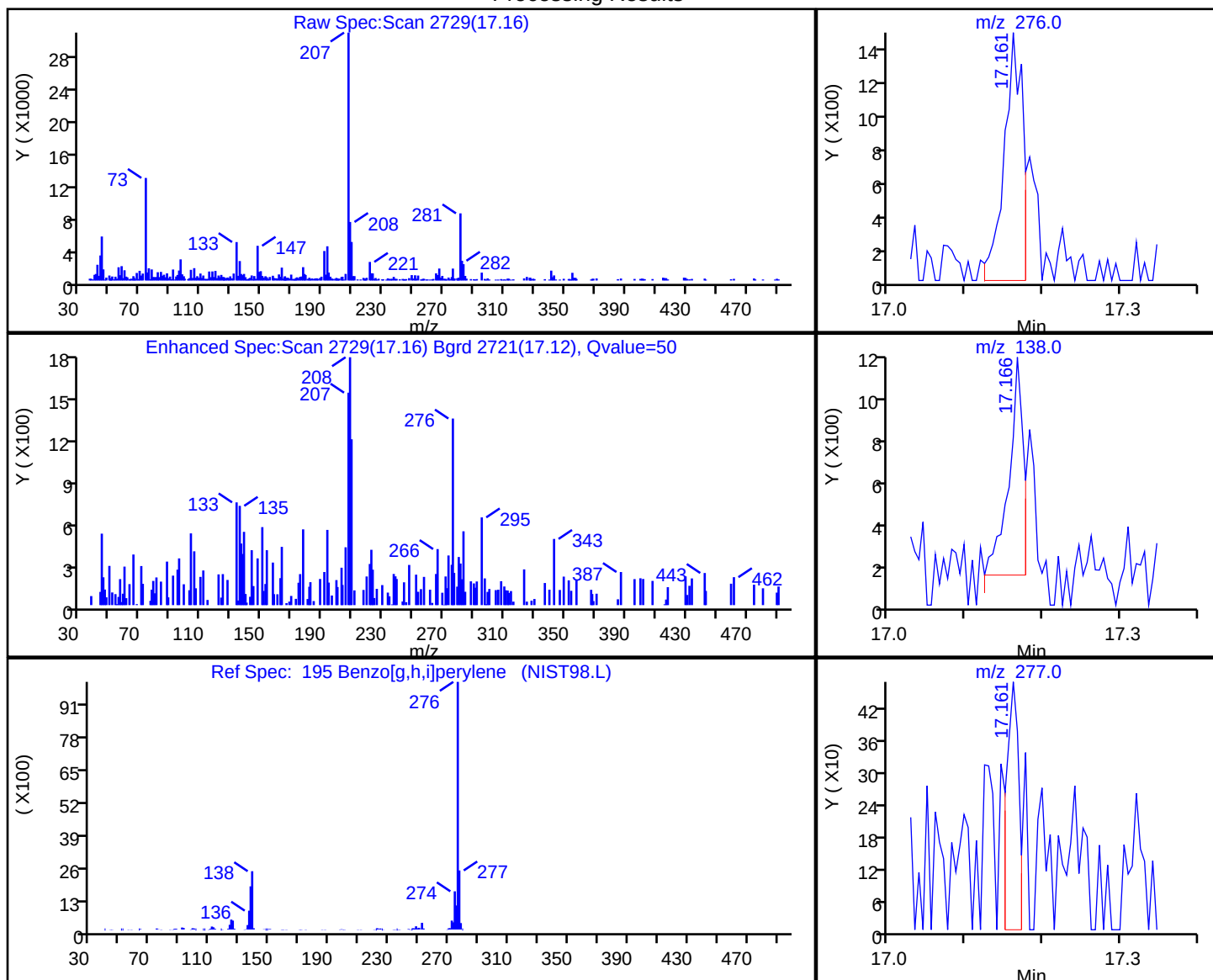
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

195 Benzo[g,h,i]perylene, CAS: 191-24-2

Processing Results



RT	Mass	Response	Amount
17.16	276.00	2428	0.006434
17.17	138.00	1362	
17.16	277.00	509	

Reviewer: quirkp, 22-Apr-2018 10:40:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3521.D

Injection Date: 22-Apr-2018 00:47:30

Instrument ID: HP5973W

Lims ID: 480-134444-B-6-A

Lab Sample ID: 480-134444-6

Client ID: SW-01

Operator ID: PJQ

ALS Bottle#:

25

Worklist Smp#: 25

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: W-LVI-8270

Limit Group:

MB - 8270D ICAL

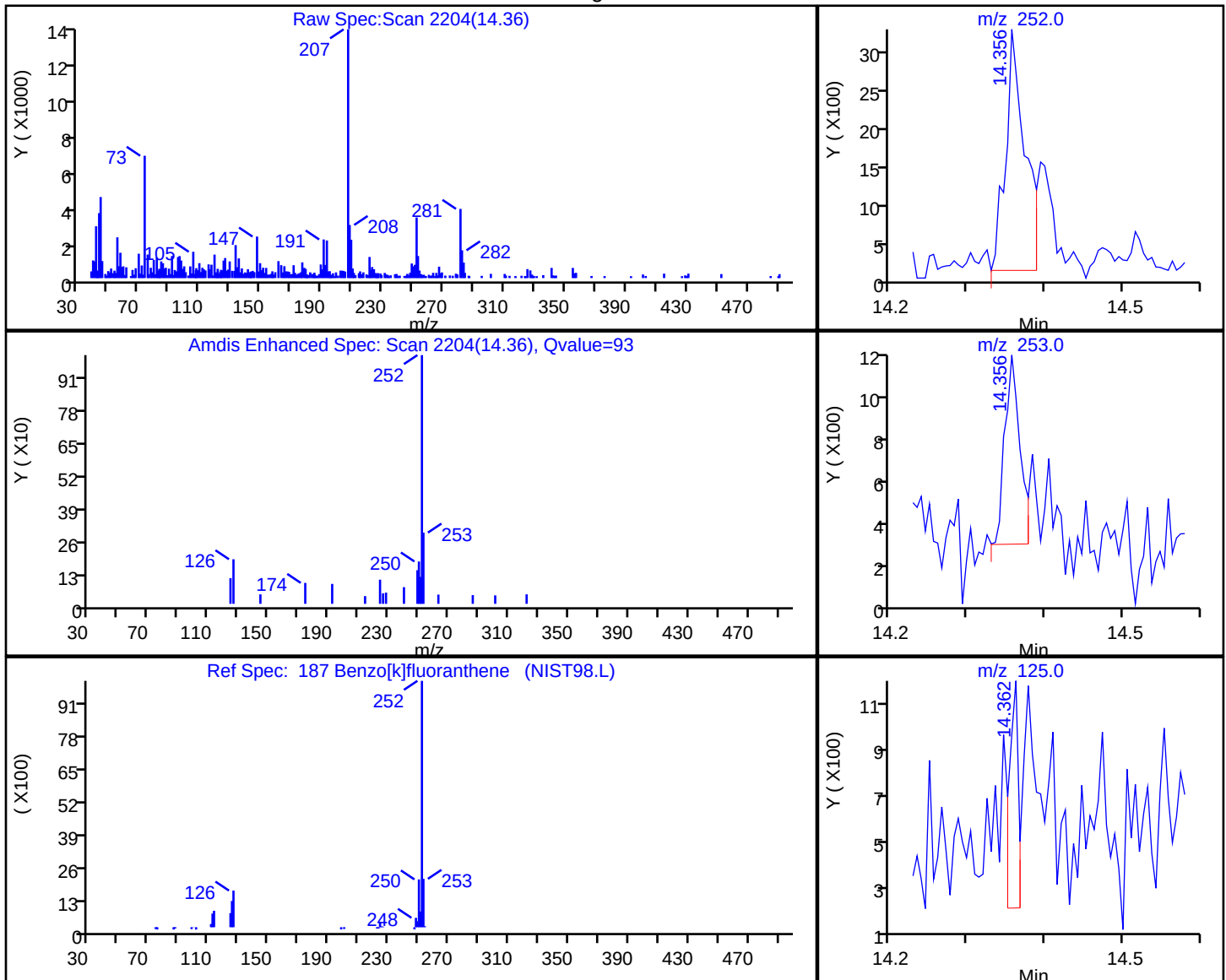
Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
14.36	252.00	5502	0.013859
14.36	253.00	1233	
14.36	125.00	753	

Reviewer: quirkp, 22-Apr-2018 10:40:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3521.D

Injection Date: 22-Apr-2018 00:47:30

Instrument ID: HP5973W

Lims ID: 480-134444-B-6-A

Lab Sample ID: 480-134444-6

Client ID: SW-01

Operator ID: PJQ

ALS Bottle#:

25

Worklist Smp#: 25

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

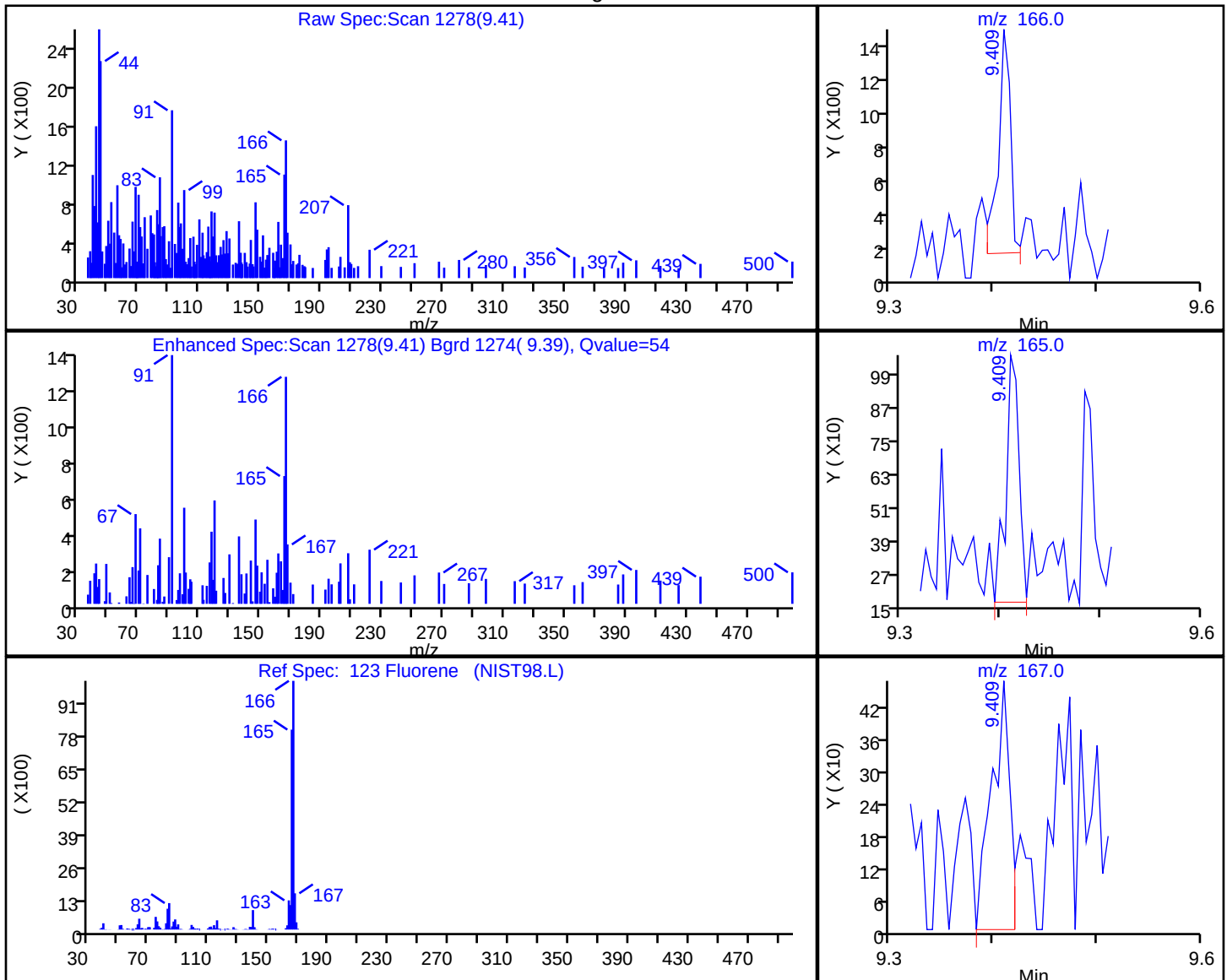
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

123 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
9.41	166.00	1032	0.003085
9.41	165.00	820	
9.41	167.00	573	

Reviewer: quirkp, 22-Apr-2018 10:40:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>SW-02</u>	Lab Sample ID: <u>480-134444-7</u>
Matrix: <u>Surface Water</u>	Lab File ID: <u>W3522.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/18/2018 11:30</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/22/2018 01:15</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.57		0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50		0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.81		0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.58		0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	94		48-120
4165-60-0	Nitrobenzene-d5	86		46-120
1718-51-0	p-Terphenyl-d14	87		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D
 Lims ID: 480-134444-C-7-A
 Client ID: SW-02
 Sample Type: Client
 Inject. Date: 22-Apr-2018 01:15:30 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-026
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:41:12 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:41:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	464619	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1796426	4.00	
* 3 Acenaphthene-d10	164	8.955	8.961	-0.006	96	859374	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1426435	4.00	
* 5 Chrysene-d12	240	12.823	12.828	-0.005	99	1171166	4.00	
* 6 Perylene-d12	264	14.960	14.965	-0.005	97	1218823	4.00	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	-0.005	89	1149886	6.85	
\$ 10 2-Fluorobiphenyl	172	8.362	8.363	-0.006	99	2374369	7.56	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	1817780	6.96	
76 Naphthalene	128	7.497	7.497	-0.005	96	24499	0.0507	
89 2-Methylnaphthalene	142	8.074	8.068	0.000	78	2357	0.006976	
107 Acenaphthylene	152	8.838	8.838	-0.005	91	2910	0.007111	
109 Acenaphthene	153		8.987				ND	
123 Fluorene	166	9.415	9.409	0.000	88	2166	0.006581	
149 Phenanthrene	178	10.227	10.227	0.000	94	40050	0.0918	
150 Anthracene	178		10.269				ND	U
161 Fluoranthene	202	11.242	11.242	0.000	98	84254	0.2037	
165 Pyrene	202	11.461	11.457	-0.005	97	62100	0.1447	
179 Benzo[a]anthracene	228		12.812				ND	U
181 Chrysene	228	12.855	12.850	-0.005	96	46606	0.1246	
186 Benzo[b]fluoranthene	252	14.356	14.356	-0.011	97	55948	0.1435	
187 Benzo[k]fluoranthene	252		14.404				ND	U
189 Benzo[a]pyrene	252	14.869	14.874	-0.011	79	22426	0.0799	
193 Indeno[1,2,3-cd]pyrene	276	16.675	16.675	-0.021	94	26461	0.0601	
194 Dibenzo(a,h)anthracene	278		16.707				ND	U
195 Benzo[g,h,i]perylene	276	17.166	17.181	-0.022	95	29721	0.0791	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Operator ID: PJK

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Worklist Smp#: 26

Client ID: SW-02

Injection Vol: 2.0 ul

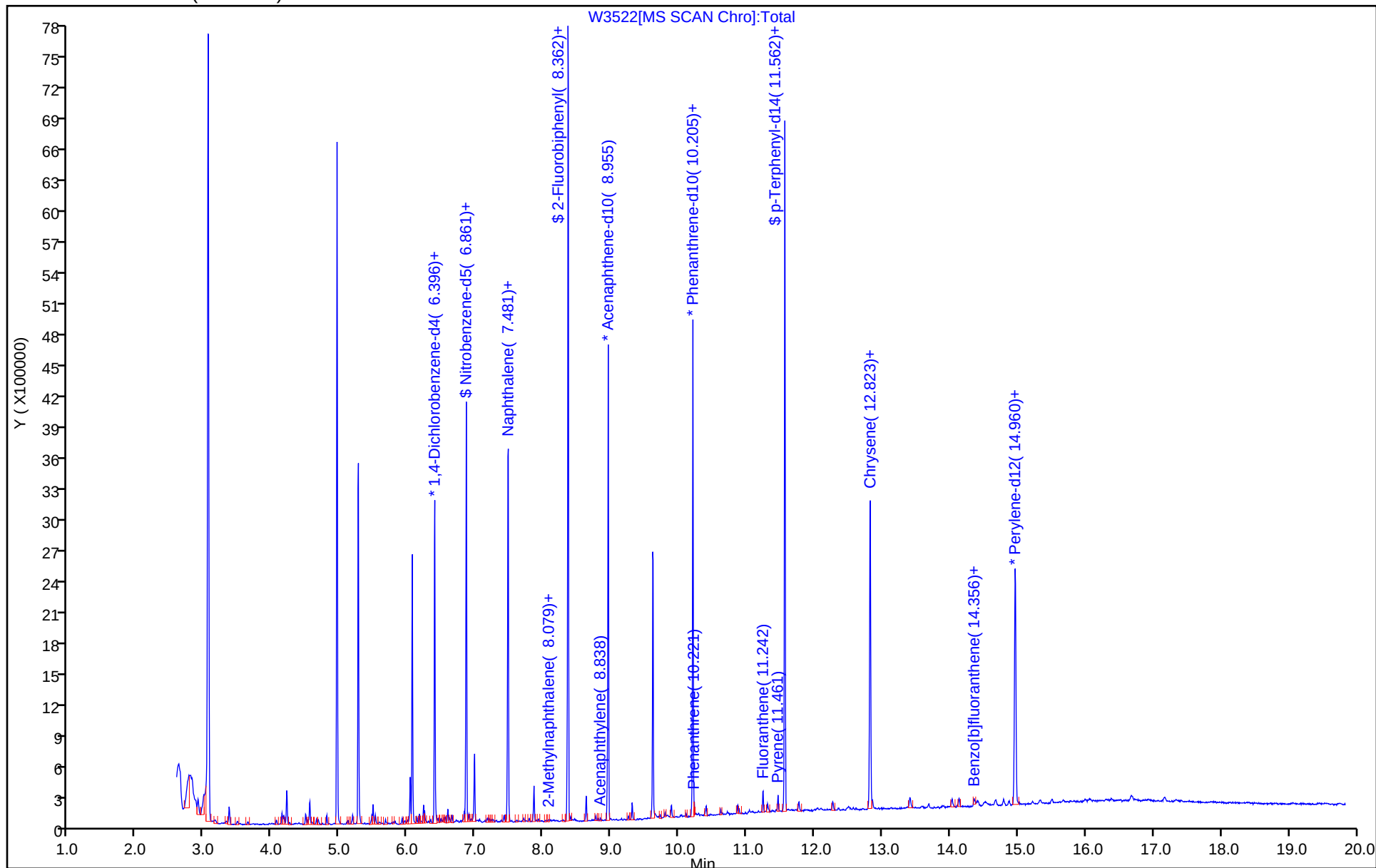
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 2.0 ul

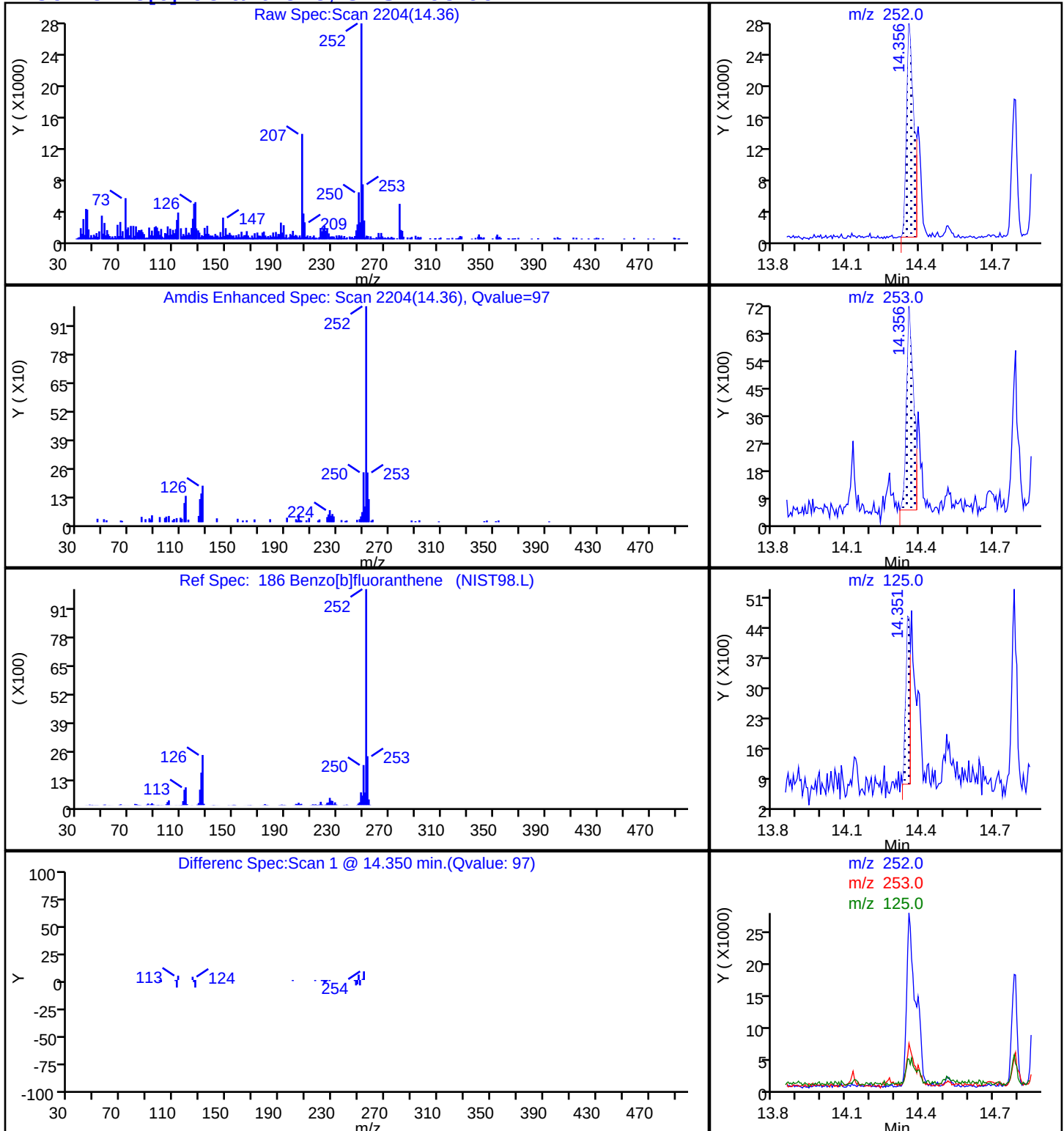
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

186 Benzo[b]fluoranthene, CAS: 205-99-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 2.0 ul

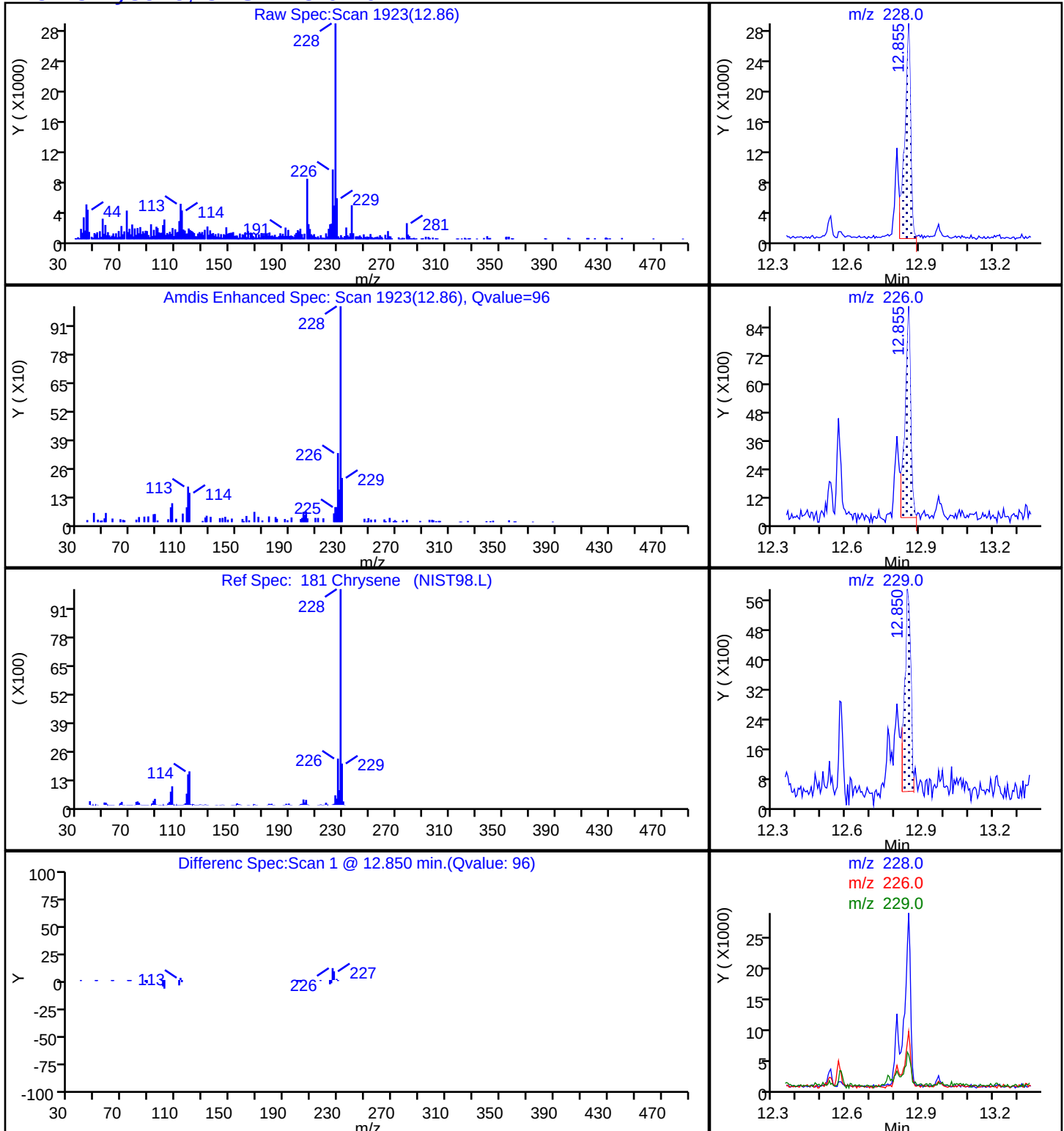
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

181 Chrysene, CAS: 218-01-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 2.0 ul

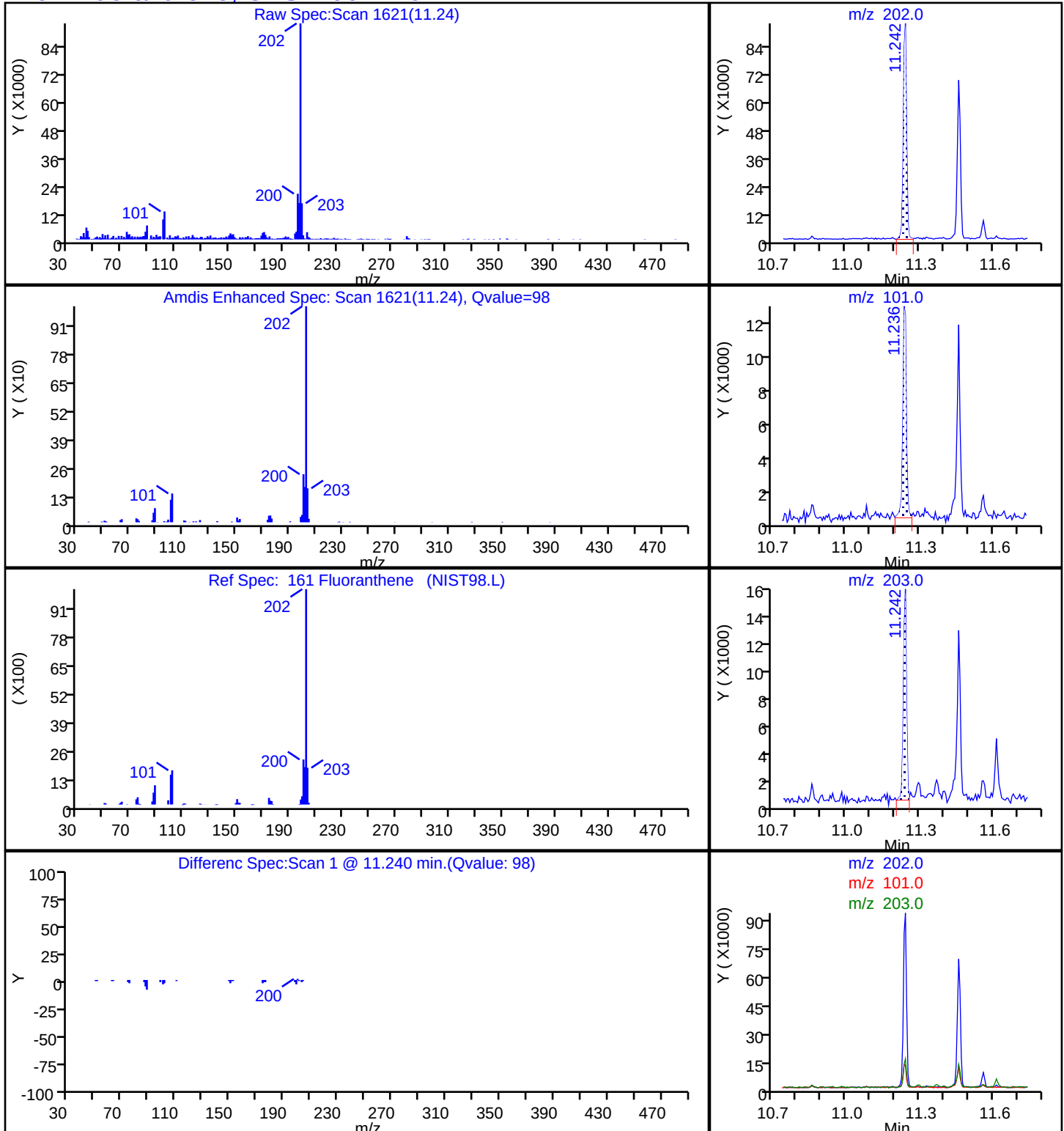
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

161 Fluoranthene, CAS: 206-44-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 2.0 ul

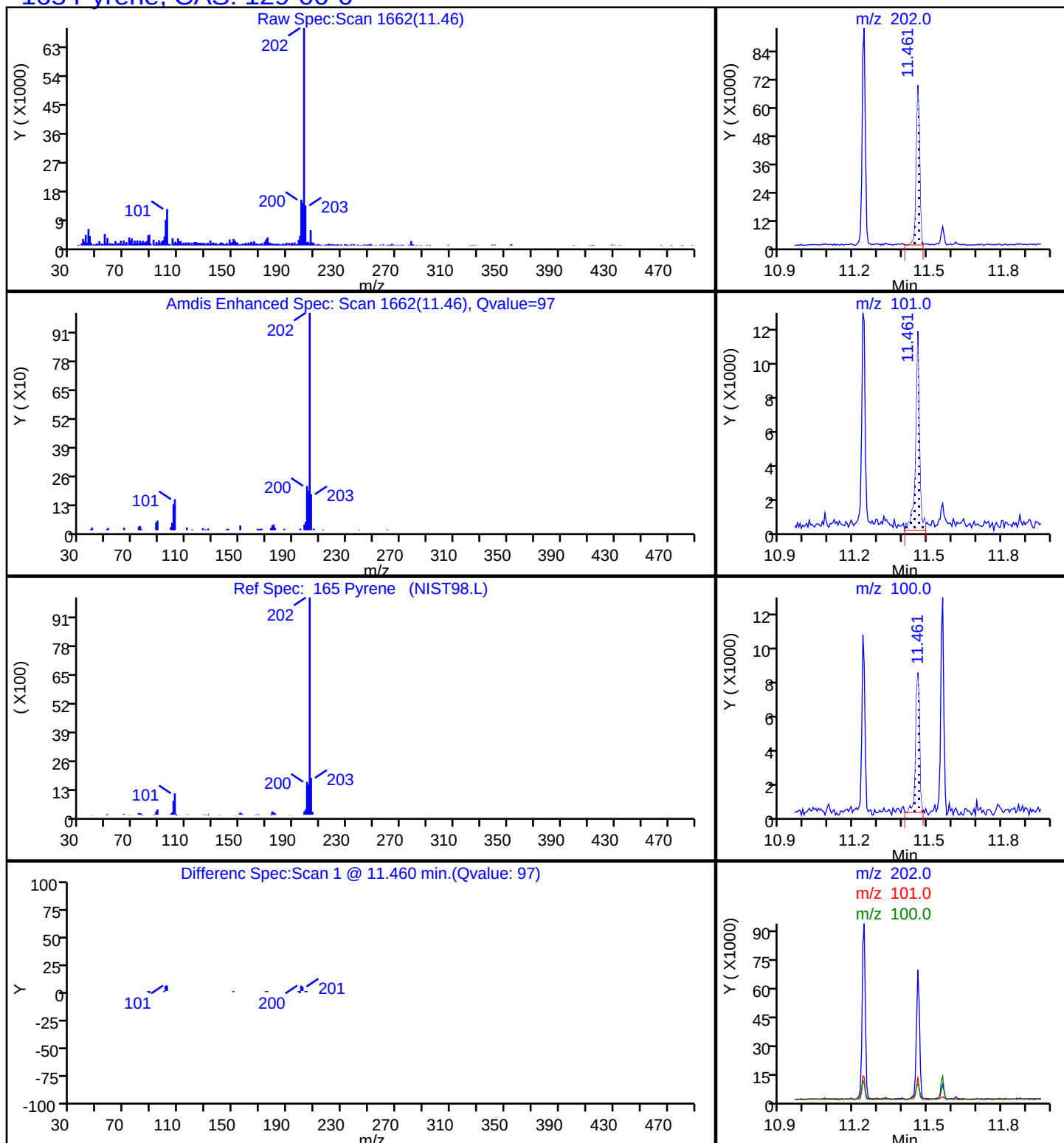
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

165 Pyrene, CAS: 129-00-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

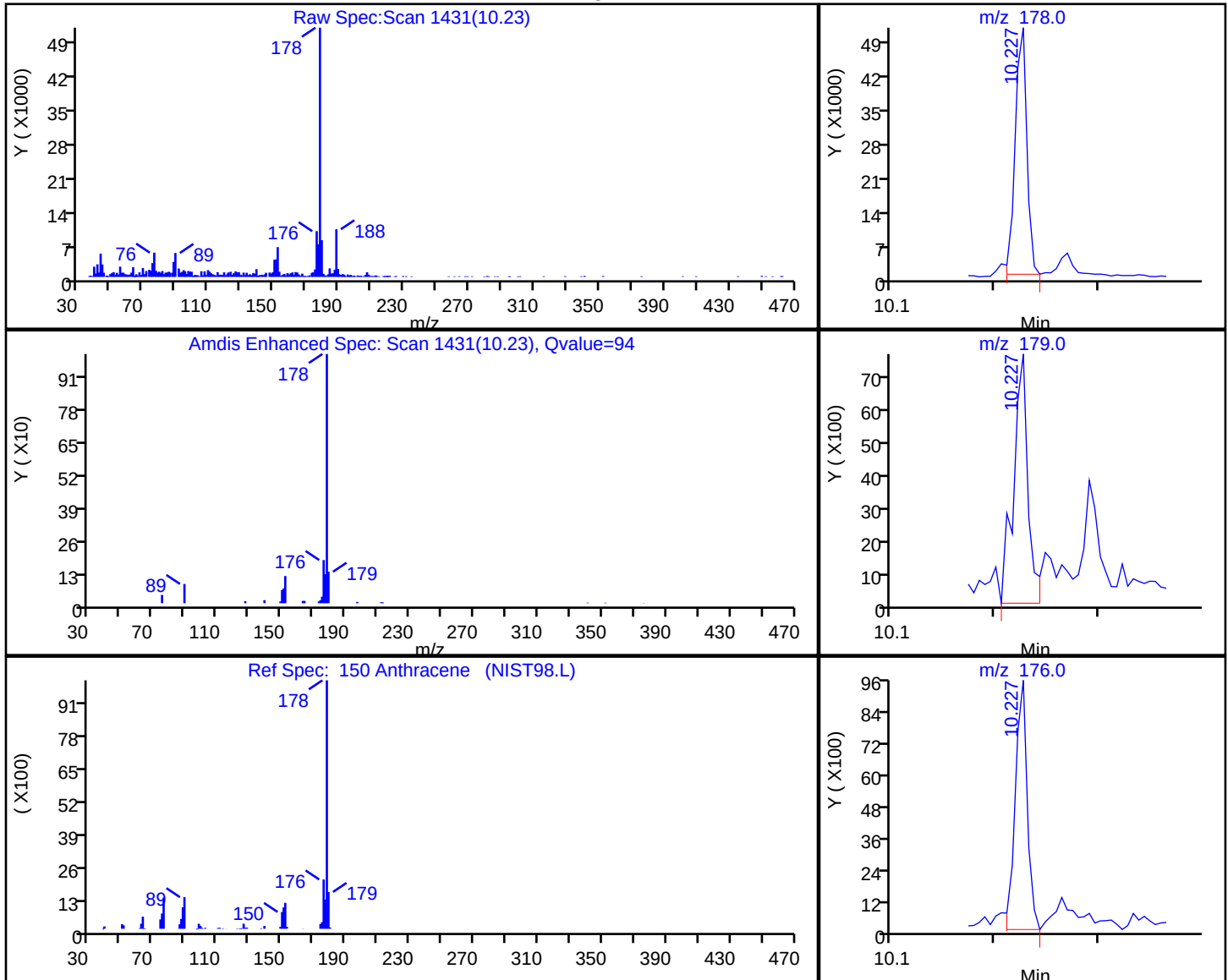
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

150 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
10.23	178.00	40050	0.092351
10.23	179.00	7415	
10.23	176.00	7689	

Reviewer: quirkp, 22-Apr-2018 10:41:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

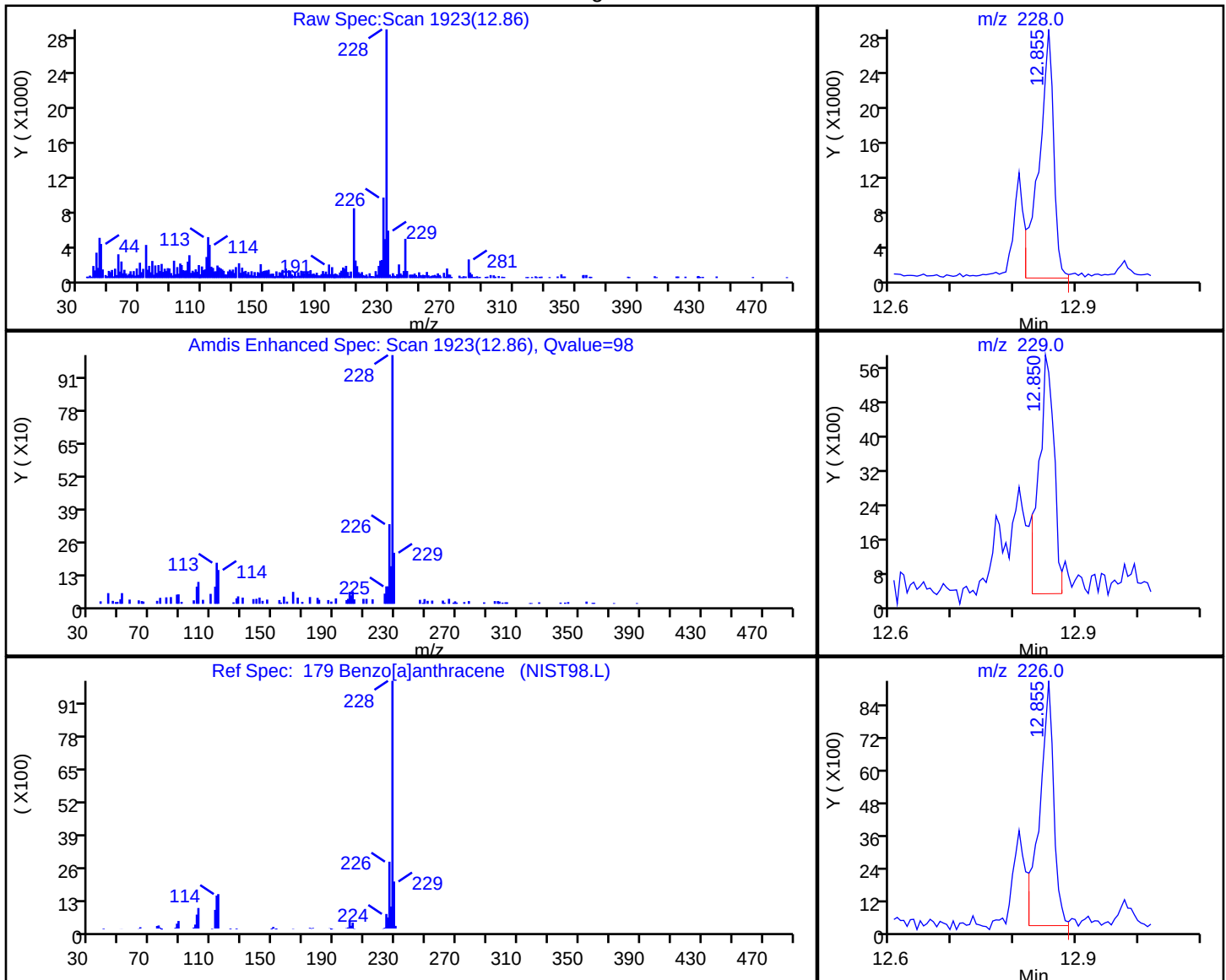
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

179 Benzo[a]anthracene, CAS: 56-55-3

Processing Results



RT	Mass	Response	Amount
12.86	228.00	47063	0.119768
12.85	229.00	9554	
12.86	226.00	14318	

Reviewer: quirkp, 22-Apr-2018 10:41:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

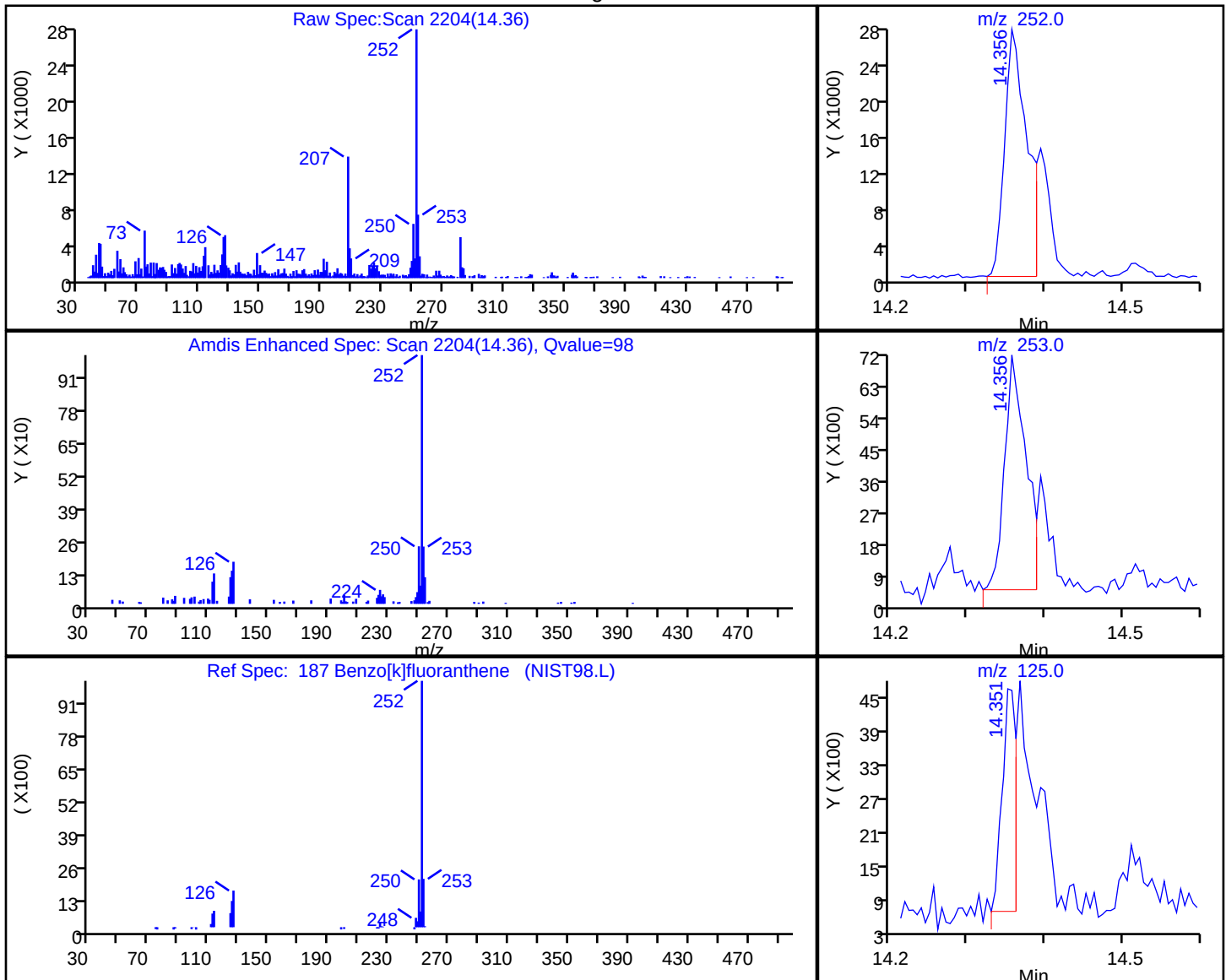
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
14.36	252.00	55948	0.141521
14.36	253.00	13073	
14.35	125.00	4900	

Reviewer: quirkp, 22-Apr-2018 10:41:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3522.D

Injection Date: 22-Apr-2018 01:15:30

Instrument ID: HP5973W

Lims ID: 480-134444-C-7-A

Lab Sample ID: 480-134444-7

Client ID: SW-02

Operator ID: PJQ

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

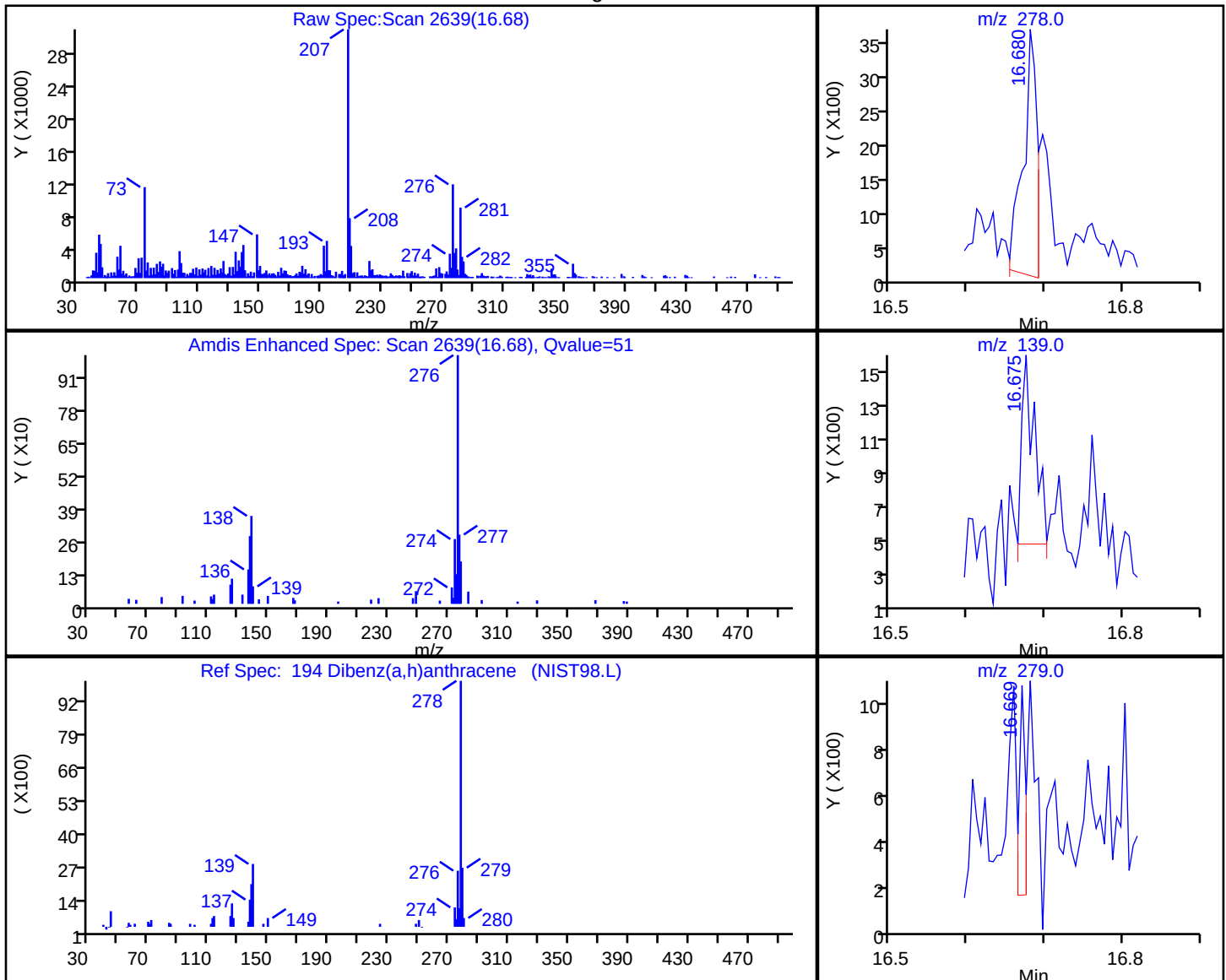
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

194 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
16.68	278.00	4527	0.012091
16.67	139.00	1217	
16.67	279.00	503	

Reviewer: quirkp, 22-Apr-2018 10:41:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>Duplicate</u>	Lab Sample ID: <u>480-134444-11</u>
Matrix: <u>Ground Water</u>	Lab File ID: <u>W3532.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/18/2018 00:00</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/22/2018 14:35</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u></u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410190</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	1.3		0.50	0.30
208-96-8	Acenaphthylene	0.47	J	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.50	U	0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50	U	0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.50	U	0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	1.2		0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.36	J	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	83		48-120
4165-60-0	Nitrobenzene-d5	74		46-120
1718-51-0	p-Terphenyl-d14	86		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3532.D
 Lims ID: 480-134444-A-11-A
 Client ID: Duplicate
 Sample Type: Client
 Inject. Date: 22-Apr-2018 14:35:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070851-008
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 23-Apr-2018 11:15:39 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: quirkp

Date: 23-Apr-2018 11:15:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.391	6.391	0.000	95	474219	4.00	
* 2 Naphthalene-d8	136	7.475	7.481	-0.006	99	1812596	4.00	
* 3 Acenaphthene-d10	164	8.955	8.960	-0.005	96	873696	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1389187	4.00	
* 5 Chrysene-d12	240	12.823	12.823	0.000	99	1140859	4.00	
* 6 Perylene-d12	264	14.965	14.965	0.000	97	1156707	4.00	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	0.000	87	999556	5.90	
\$ 10 2-Fluorobiphenyl	172	8.367	8.368	-0.001	99	2117800	6.63	
\$ 12 p-Terphenyl-d14	244	11.562	11.562	0.000	99	1750305	6.88	
76 Naphthalene	128	7.497	7.497	0.000	96	144192	0.2956	
89 2-Methylnaphthalene	142		8.074				ND	U
107 Acenaphthylene	152	8.838	8.843	-0.005	98	49310	0.1185	
109 Acenaphthene	153	8.982	8.987	-0.005	92	102630	0.3283	
123 Fluorene	166	9.415	9.415	0.000	97	14268	0.0426	
149 Phenanthrene	178		10.227				ND	U
150 Anthracene	178	10.269	10.269	0.000	85	7560	0.0179	
161 Fluoranthene	202	11.242	11.242	0.000	98	30379	0.0754	
165 Pyrene	202	11.461	11.466	-0.005	97	37176	0.0889	
179 Benzo[a]anthracene	228		12.807				ND	
181 Chrysene	228		12.860				ND	
186 Benzo[b]fluoranthene	252		14.362				ND	
187 Benzo[k]fluoranthene	252		14.404				ND	
189 Benzo[a]pyrene	252		14.874				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.685				ND	
194 Dibenzo(a,h)anthracene	278		16.701				ND	
195 Benzo[g,h,i]perylene	276		17.177				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180422-70851.b\\W3532.D

Injection Date: 22-Apr-2018 14:35:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: 480-134444-A-11-A

Lab Sample ID: 480-134444-11

Worklist Smp#: 8

Client ID: Duplicate

Injection Vol: 2.0 ul

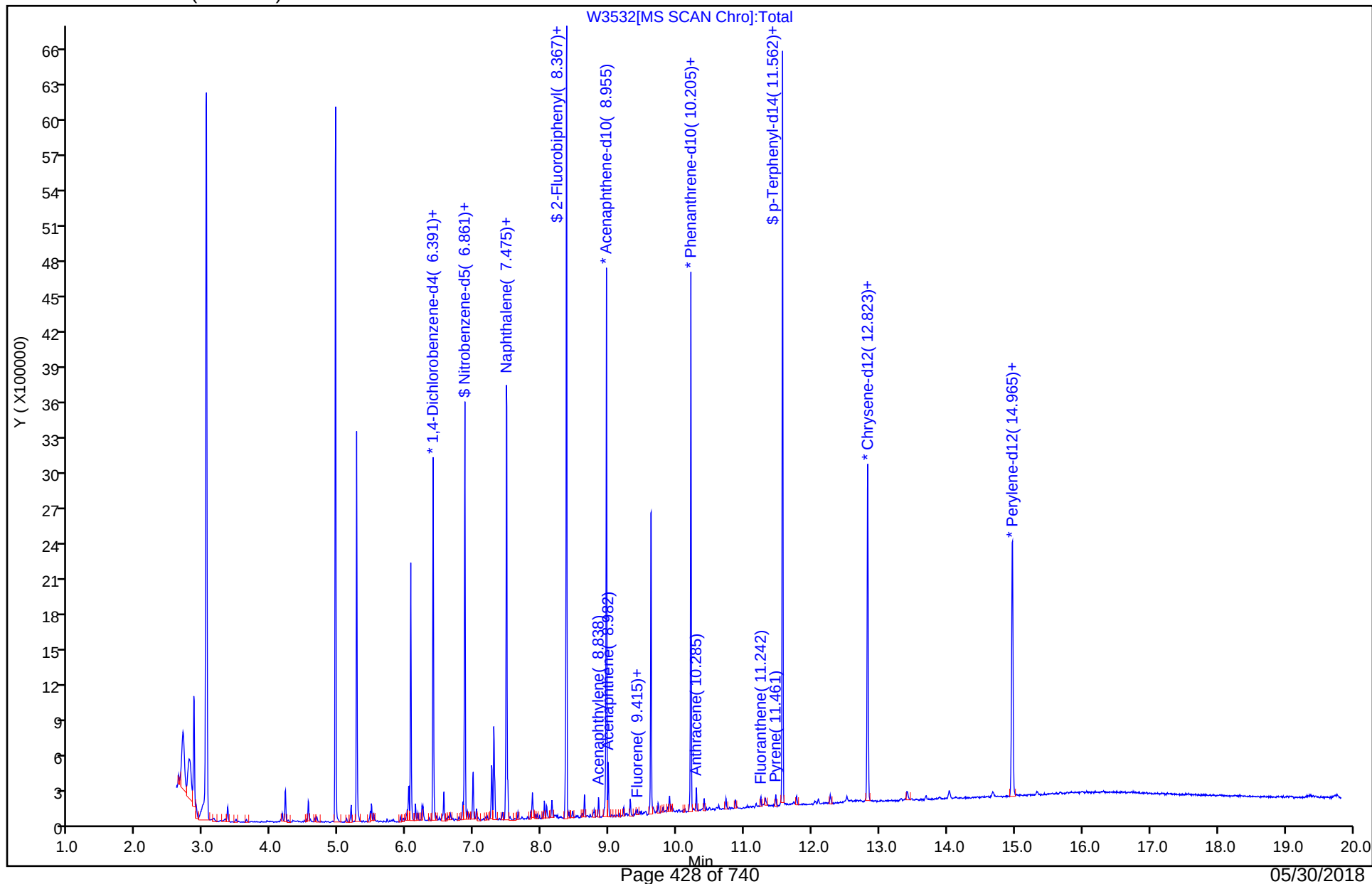
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3532.D

Injection Date: 22-Apr-2018 14:35:30

Instrument ID: HP5973W

Lims ID: 480-134444-A-11-A

Lab Sample ID: 480-134444-11

Client ID: Duplicate

Operator ID: PJQ

ALS Bottle#: 8

Worklist Smp#: 8

Injection Vol: 2.0 ul

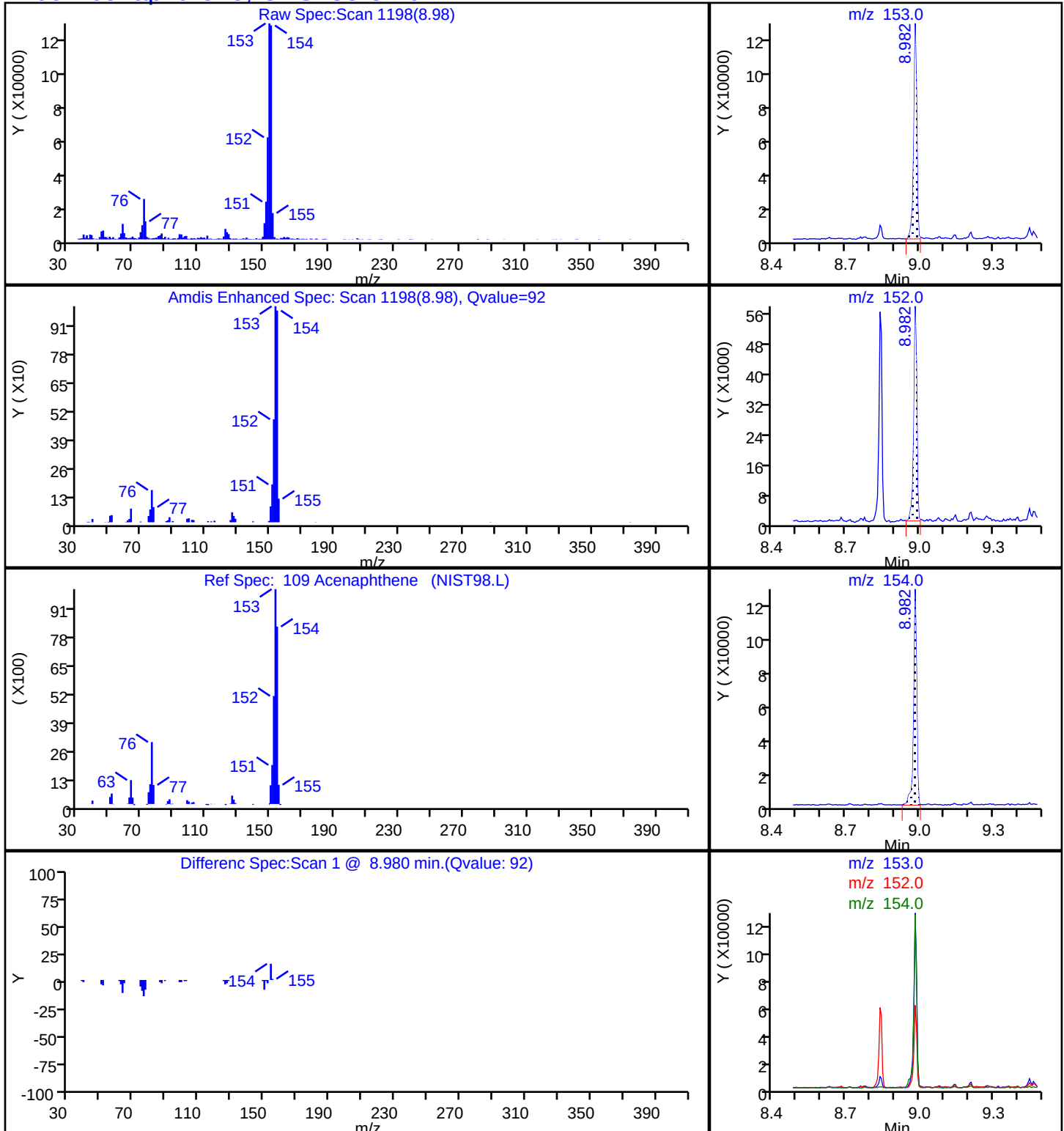
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

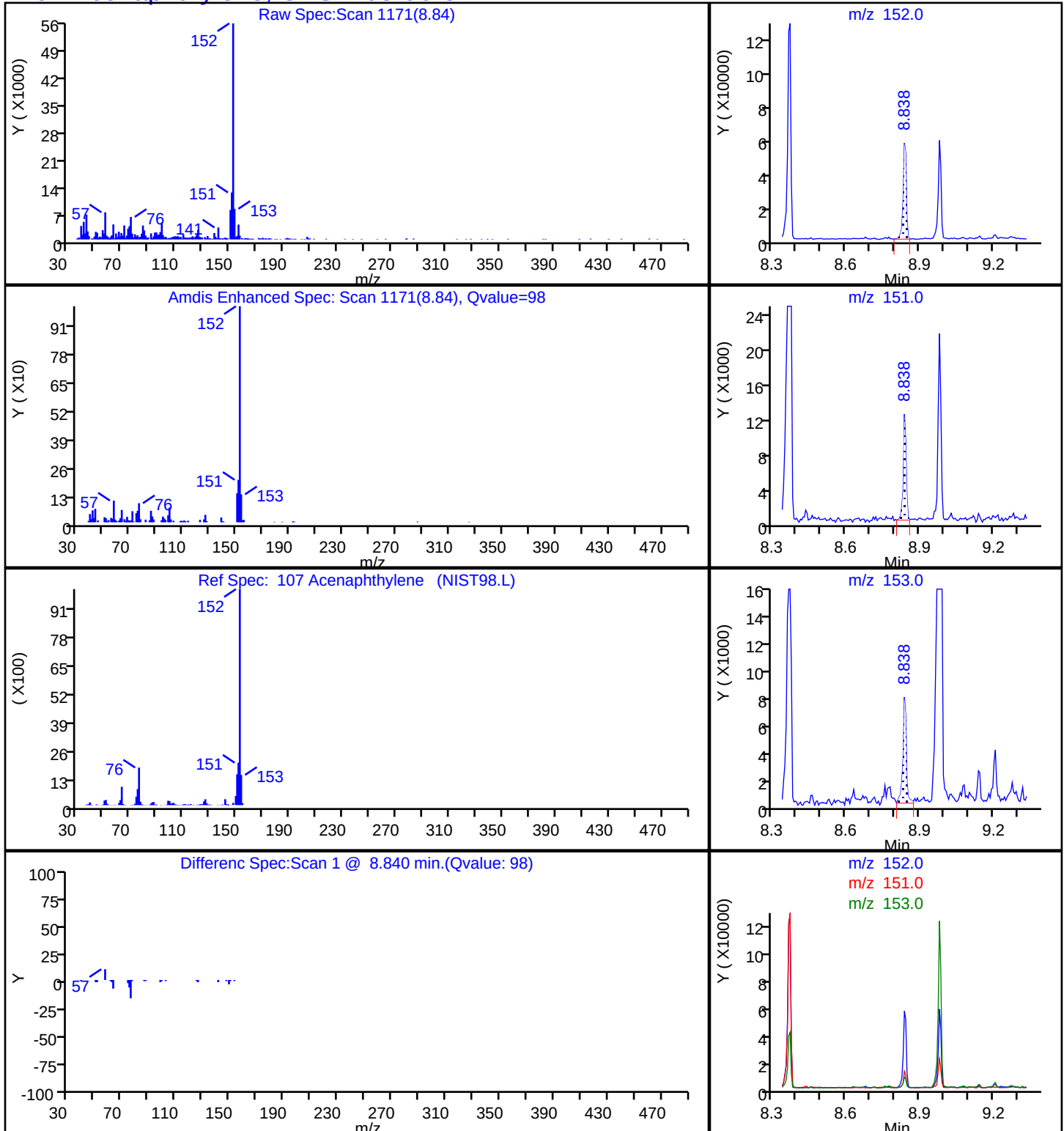
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

109 Acenaphthene, CAS: 83-32-9

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3532.D
Injection Date: 22-Apr-2018 14:35:30 Instrument ID: HP5973W
Lims ID: 480-134444-A-11-A Lab Sample ID: 480-134444-11
Client ID: Duplicate
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector: MS SCAN

107 Acenaphthylene, CAS: 208-96-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3532.D

Injection Date: 22-Apr-2018 14:35:30

Instrument ID: HP5973W

Lims ID: 480-134444-A-11-A

Lab Sample ID: 480-134444-11

Client ID: Duplicate

Operator ID: PJQ

ALS Bottle#: 8

Worklist Smp#: 8

Injection Vol: 2.0 ul

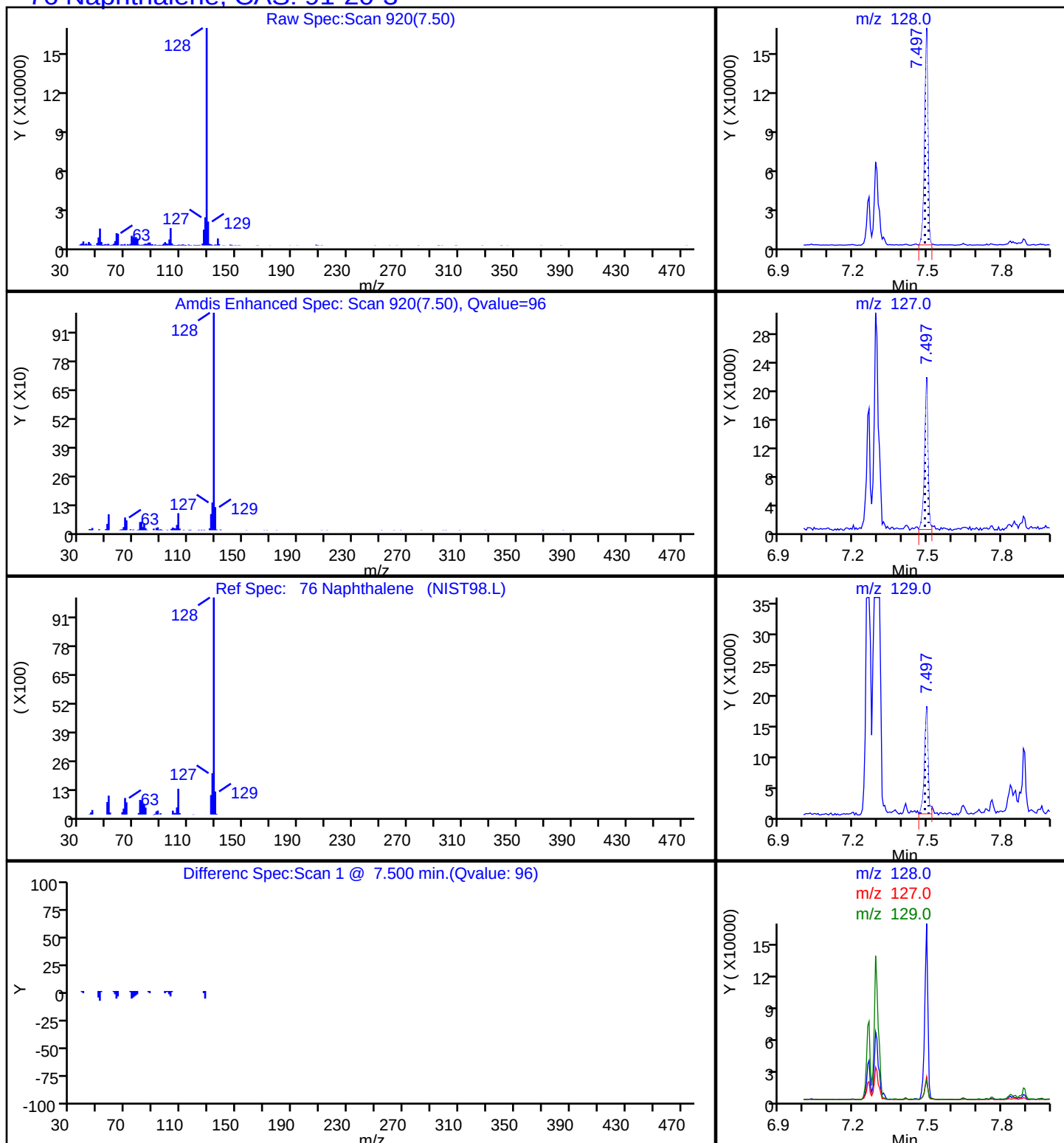
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

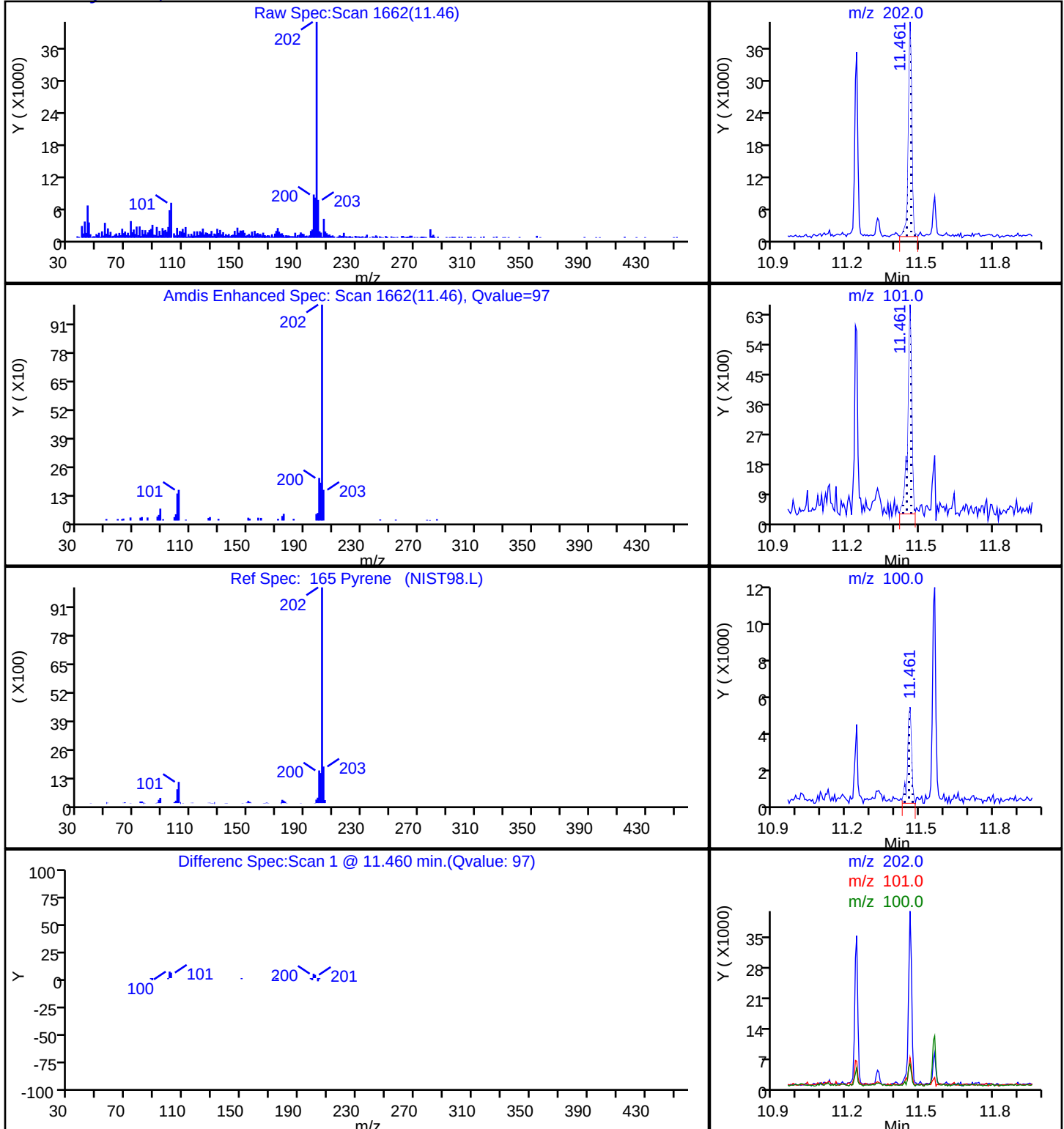
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

76 Naphthalene, CAS: 91-20-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3532.D
Injection Date: 22-Apr-2018 14:35:30 Instrument ID: HP5973W
Lims ID: 480-134444-A-11-A Lab Sample ID: 480-134444-11
Client ID: Duplicate
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector: MS SCAN

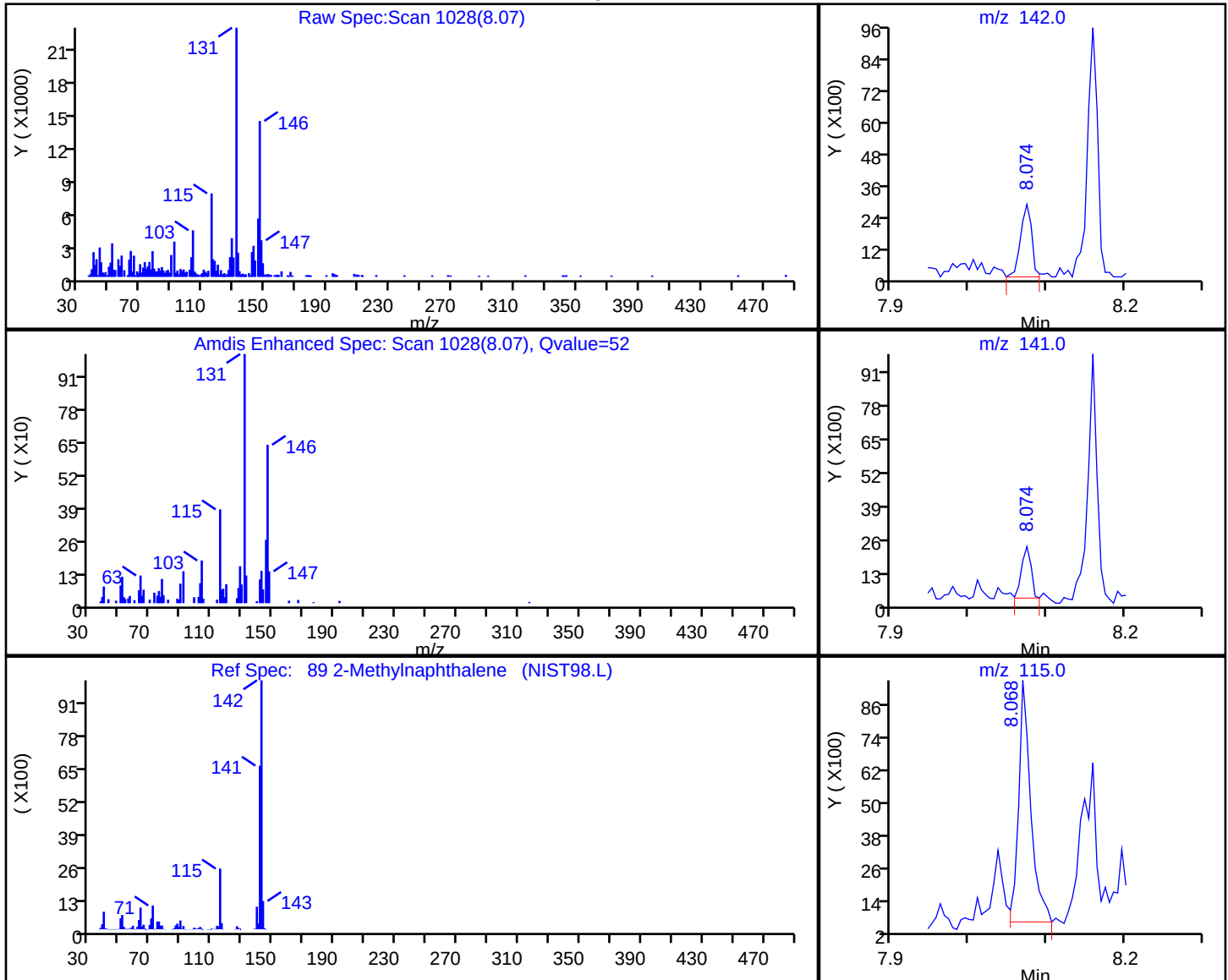
165 Pyrene, CAS: 129-00-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3532.D
Injection Date: 22-Apr-2018 14:35:30 Instrument ID: HP5973W
Lims ID: 480-134444-A-11-A Lab Sample ID: 480-134444-11
Client ID: Duplicate
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

89 2-Methylnaphthalene, CAS: 91-57-6

Processing Results



RT	Mass	Response	Amount
8.07	142.00	2769	0.008122
8.07	141.00	1719	
8.07	115.00	9692	

Reviewer: quirkp, 23-Apr-2018 11:15:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3532.D

Injection Date: 22-Apr-2018 14:35:30

Instrument ID: HP5973W

Lims ID: 480-134444-A-11-A

Lab Sample ID: 480-134444-11

Client ID: Duplicate

Operator ID: PJQ

ALS Bottle#:

8

Worklist Smp#: 8

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

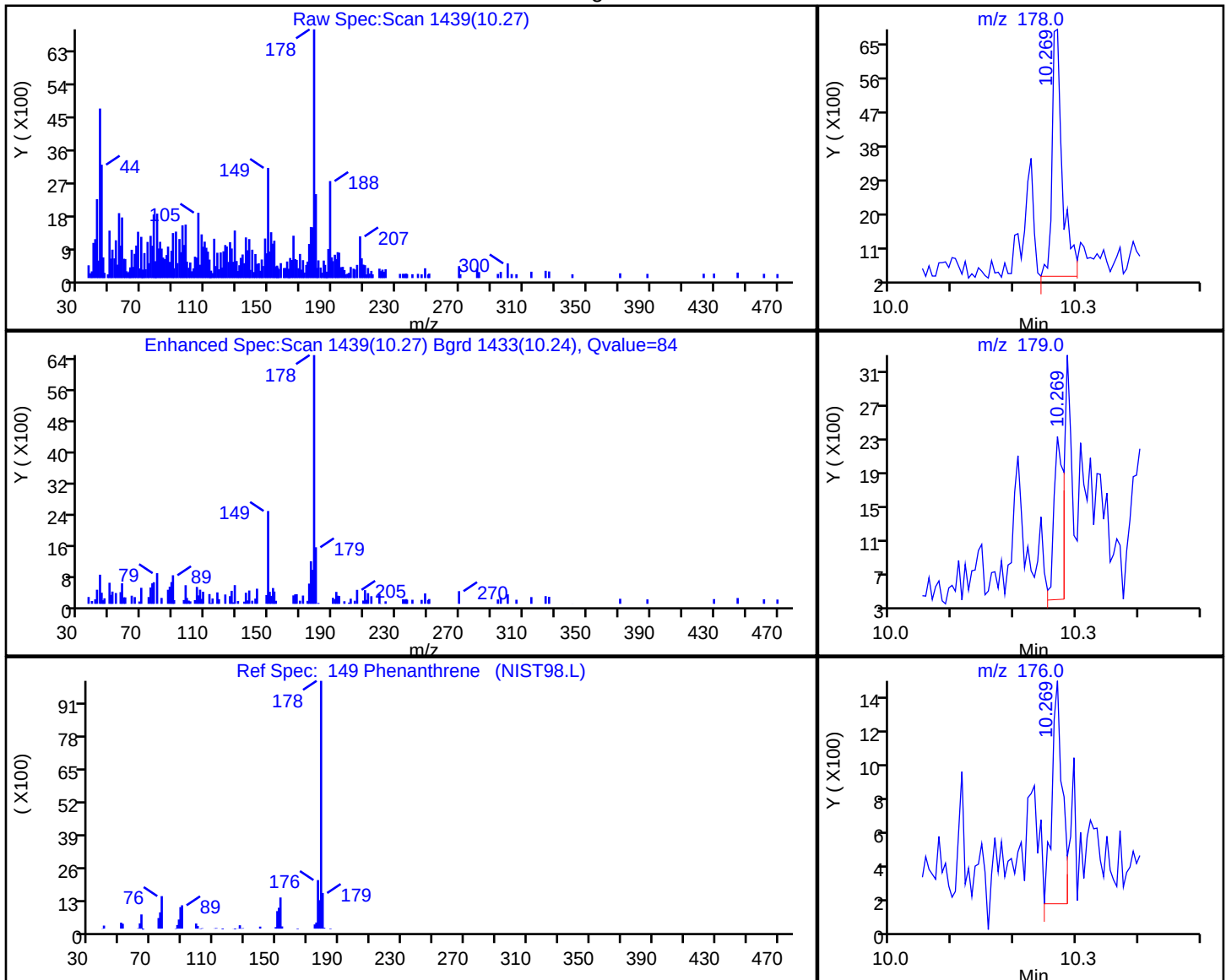
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

149 Phenanthrene, CAS: 85-01-8

Processing Results



RT	Mass	Response	Amount
10.27	178.00	7560	0.017790
10.27	179.00	2085	
10.27	176.00	1453	

Reviewer: quirkp, 23-Apr-2018 11:15:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: <u>EB</u>	Lab Sample ID: <u>480-134444-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>W3524.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: <u>04/18/2018 11:00</u>
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/22/2018 02:12</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.50	U	0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50	U	0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.50	U	0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.50	U	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	96		48-120
4165-60-0	Nitrobenzene-d5	86		46-120
1718-51-0	p-Terphenyl-d14	101		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3524.D
 Lims ID: 480-134444-A-12-A
 Client ID: EB
 Sample Type: Client
 Inject. Date: 22-Apr-2018 02:12:30 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-028
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:42:57 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:42:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	460364	4.00	
* 2 Naphthalene-d8	136	7.475	7.481	-0.006	99	1815425	4.00	
* 3 Acenaphthene-d10	164	8.955	8.961	-0.006	96	867661	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1445736	4.00	
* 5 Chrysene-d12	240	12.823	12.828	-0.005	99	1165855	4.00	
* 6 Perylene-d12	264	14.960	14.965	-0.005	97	1208650	4.00	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	-0.005	88	1173447	6.92	
\$ 10 2-Fluorobiphenyl	172	8.362	8.363	-0.006	99	2432693	7.67	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	2106109	8.10	
76 Naphthalene	128	7.497	7.497	-0.005	95	30340	0.0621	
89 2-Methylnaphthalene	142	8.074	8.068	0.000	95	1835	0.005374	
107 Acenaphthylene	152		8.843				ND	
109 Acenaphthene	153		8.987				ND	
123 Fluorene	166		9.415				ND	
149 Phenanthrene	178		10.227				ND	
150 Anthracene	178		10.269				ND	
161 Fluoranthene	202		11.242				ND	
165 Pyrene	202		11.466				ND	
179 Benzo[a]anthracene	228		12.812				ND	
181 Chrysene	228		12.860				ND	
186 Benzo[b]fluoranthene	252		14.367				ND	
187 Benzo[k]fluoranthene	252		14.404				ND	
189 Benzo[a]pyrene	252		14.880				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.696				ND	
194 Dibenzo[a,h]anthracene	278		16.707				ND	
195 Benzo[g,h,i]perylene	276		17.188				ND	

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3524.D

Injection Date: 22-Apr-2018 02:12:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: 480-134444-A-12-A

Lab Sample ID: 480-134444-12

Worklist Smp#: 28

Client ID: EB

Injection Vol: 2.0 ul

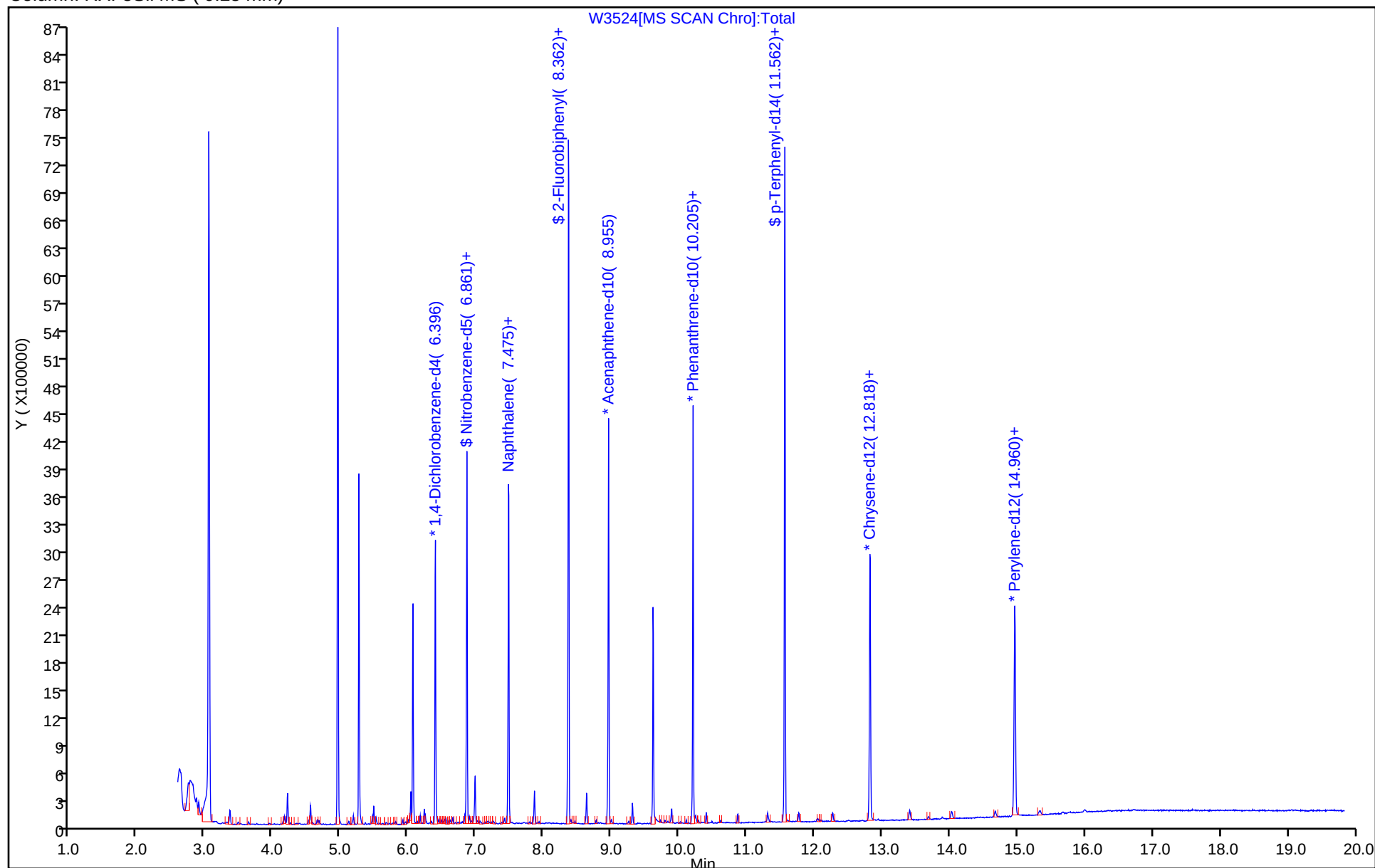
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 409315

SDG No.: 480-134358-1

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2018 17:42 Calibration End Date: 04/17/2018 21:02 Calibration ID: 33582

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-409315/3	W3478.D
Level 2	IC 480-409315/4	W3479.D
Level 3	IC 480-409315/5	W3480.D
Level 4	IC 480-409315/6	W3481.D
Level 5	ICIS 480-409315/7	W3482.D
Level 6	IC 480-409315/8	W3483.D
Level 7	IC 480-409315/9	W3484.D
Level 8	IC 480-409315/10	W3485.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 5		B	M1	M2								
Naphthalene	1.1753 1.0412	1.1815 0.9098	1.1667 0.8122	1.1865	1.1390	Ave		1.0765			0.7000	13.3		20.0			
2-Methylnaphthalene	0.7807 0.7453	0.7965 0.6880	0.7914 0.6412	0.7971	0.7786	Ave		0.7523			0.4000	7.7		20.0			
1-Methylnaphthalene	0.7669 0.7107	0.7544 0.6611	0.7473 0.6147	0.7528	0.7374	Ave		0.7182			0.0100	7.5		20.0			
Acenaphthylene	1.9136 1.9144	1.9346 1.7271	2.0639 1.5183	2.0899	2.0753	Ave		1.9046			0.9000	10.3		20.0			
Acenaphthene	1.5432 1.3944	1.5008 1.3131	1.4925 1.2033	1.5132	1.4898	Ave		1.4313			0.9000	8.3		20.0			
Dibenzofuran	2.0075 1.8090	2.0174 1.6541	2.0199	1.9943	Ave			1.8525			0.8000	11.9		20.0			
Fluorene	1.5895 1.5170	1.5867 1.4207	1.6232 1.3121	1.6088	1.5977	Ave		1.5320			0.9000	7.2		20.0			
Phenanthrene	1.3744 1.1846	1.3380 1.0260	1.3211 0.9458	1.3267	1.2721	Ave		1.2236			0.7000	13.0		20.0			
Anthracene	1.2465 1.2153	1.2505 1.0639	1.3389 0.9424	1.3594	1.3120	Ave		1.2161			0.7000	11.8		20.0			
Fluoranthene	1.1690 1.1520	1.2011 1.0409	1.2507 0.9562	1.2677	1.2411	Ave		1.1598			0.6000	9.4		20.0			
Pyrene	1.5064 1.4588	1.5209 1.3246	1.5540 1.2017	1.6091	1.5510	Ave		1.4658			0.6000	9.3		20.0			
Benzo(a)anthracene	1.4078 1.3410	1.3018 1.2956	1.3625 1.2623	1.3849	1.3810	Ave		1.3421			0.8000	3.8		20.0			
Chrysene	1.3608 1.2541	1.2908 1.2181	1.2914 1.1671	1.3432	1.2941	Ave		1.2774			0.7000	5.0		20.0			
Benzo(b)fluoranthene	1.2287 1.2908	1.1960 1.3365	1.2550 1.3371	1.2952	1.2958	Ave		1.2794			0.7000	3.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 409315
SDG No.: 480-134358-1
Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/17/2018 17:42 Calibration End Date: 04/17/2018 21:02 Calibration ID: 33582

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 5		B	M1	M2								
Benzo(k)fluoranthene	1.2324 1.3197	1.2066 1.3228	1.3018 1.2730	1.3966	1.3264	Ave		1.2974			0.7000	4.6		20.0			
Benzo(a)pyrene	1.0612 1.2632	1.1107 1.2662	1.1988 1.2545	1.2575	1.2458	Lin2	-0.027	1.2539			0.7000	1.9			1.0000		0.9900
Indeno(1,2,3-cd)pyrene	1.3497 1.4797	1.3040 1.5250	1.4101 1.5381	1.4608	1.4846	Ave		1.4440			0.5000	5.7		20.0			
Dibenz(a,h)anthracene	1.1317 1.2813	1.1271 1.3027	1.1846 1.2798	1.2686	1.2546	Ave		1.2288			0.4000	5.7		20.0			
Benzo(g,h,i)perylene	1.1575 1.2685	1.1706 1.2701	1.2102 1.2677	1.2709	1.2506	Ave		1.2333			0.5000	3.8		20.0			
Nitrobenzene-d5	0.3673	0.3414 0.3698	0.3521 0.3724	0.4007	0.3988	Lin1	-0.003	0.3743			0.0100	5.7			0.9990		0.9900
2-Fluorobiphenyl	1.4648	1.5340 1.3664	1.5347 1.2613	1.5417	1.5332	Ave		1.4623			0.0100	7.5		20.0			
p-Terphenyl-d14	0.8942	0.8926 0.8778	0.8942 0.8443	0.9335	0.9067	Ave		0.8919			0.0100	3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 409315

SDG No.: 480-134358-1

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2018 17:42 Calibration End Date: 04/17/2018 21:02 Calibration ID: 33582

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-409315/3	W3478.D
Level 2	IC 480-409315/4	W3479.D
Level 3	IC 480-409315/5	W3480.D
Level 4	IC 480-409315/6	W3481.D
Level 5	ICIS 480-409315/7	W3482.D
Level 6	IC 480-409315/8	W3483.D
Level 7	IC 480-409315/9	W3484.D
Level 8	IC 480-409315/10	W3485.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Naphthalene	NPT	Ave	72992 4394092	146488 5985265	589910 7078354	1210013	2345803	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	48487 3145365	98749 4526047	400159 5588091	812910	1603439	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	47629 2999312	93536 4349094	377836 5357208	767721	1518762	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acenaphthylene	ANT	Ave	56966 3887231	115382 5395955	498574 6463461	1022213	2020754	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acenaphthene	ANT	Ave	45940 2831332	89508 4102568	360533 5122300	740118	1450647	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenzofuran	ANT	Ave	3673113 47318	5167939 94631	6237089 392099	988005	1941949	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Fluorene	ANT	Ave	3080271 68852	4438607 133140	5585751 536506	786921	1555731	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Phenanthrene	PHN	Ave	3951368 62444	5282032 124439	6529042 543729	1067651	2068475	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Anthracene	PHN	Ave	4053497 58565	5477006 119522	6505153 507893	1093992	2133417	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Fluoranthene	PHN	Ave	3842525 58530	5358347 119518	6600765 516679	1020161	2018173	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Pyrene	CRY	Ave	3959679 54699	5579982 102298	6741273 452991	1046975	2033464	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Benzo (a) anthracene	CRY	Ave	3639965 52872	5457903 101432	7081435 429349	901068	1810533	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Chrysene	CRY	Ave	3404107 48038	5131361 93252	6547570 400211	873943	1696702	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Benzo (b) fluoranthene	PRY	Ave	3378254 48185	5337485 94080	7140181 415151	819097	1649449	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00
Benzo (k) fluoranthene	PRY	Ave	3453955 5282433	5282433 6797700	6797700 6797700	883229	1688461	8.00 0.125	12.0 0.250	16.0 1.00	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 409315
SDG No.: 480-134358-1
Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/17/2018 17:42 Calibration End Date: 04/17/2018 21:02 Calibration ID: 33582

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzo(a)pyrene	PRY	Lin2	41492 3306087	86599 5056401	382302 6698834	795209	1585810	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Indeno(1,2,3-cd)pyrene	PRY	Ave	52770 3872632	101674 6090188	449677 8213192	923784	1889812	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Ave	44248 3353480	87875 5202484	377750 6833917	802250	1597081	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo(g,h,i)perylene	PRY	Ave	45257 3319974	91270 5071993	385930 6769269	803723	1591952	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Nitrobenzene-d5	NPT	Lin1	1550071	42328 2432867	178029 3245326	408646	821401	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	2974342	91490 4268936	370717 5369288	754096	1492946	8.00	0.250 12.0	1.00 16.0	2.00	4.00
p-Terphenyl-d14	CRY	Ave	2427227	70140 3698007	297312 4736675	607367	1188686	8.00	0.250 12.0	1.00 16.0	2.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3478.D
 Lims ID: IC L1 .125
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 17-Apr-2018 17:42:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070726-003
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 12:27:49 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 11:26:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	514969	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1987314	4.00	4.00	
* 3 Acenaphthene-d10	164	8.960	8.961	0.000	96	952591	4.00	4.00	
* 4 Phenanthrene-d10	188	10.210	10.211	-0.001	98	1603088	4.00	4.00	
* 5 Chrysene-d12	240	12.828	12.828	0.000	99	1243332	4.00	4.00	
* 6 Perylene-d12	264	14.970	14.971	-0.001	97	1251127	4.00	4.00	
76 Naphthalene	128	7.502	7.502	0.000	93	72992	0.1250	0.1365	
89 2-Methylnaphthalene	142	8.079	8.079	0.000	92	48487	0.1250	0.1297	
91 1-Methylnaphthalene	142	8.164	8.165	0.000	94	47629	0.1250	0.1335	
107 Acenaphthylene	152	8.843	8.843	0.000	98	56966	0.1250	0.1256	
109 Acenaphthene	153	8.987	8.987	0.000	93	45940	0.1250	0.1348	
123 Fluorene	166	9.414	9.420	-0.006	96	47318	0.1250	0.1297	
149 Phenanthrene	178	10.226	10.232	-0.006	98	68852	0.1250	0.1404	
150 Anthracene	178	10.269	10.275	-0.006	97	62444	0.1250	0.1281	
161 Fluoranthene	202	11.247	11.247	0.000	98	58565	0.1250	0.1260	
165 Pyrene	202	11.466	11.466	0.000	97	58530	0.1250	0.1285	
179 Benzo[a]anthracene	228	12.807	12.812	-0.005	99	54699	0.1250	0.1311	
181 Chrysene	228	12.860	12.866	-0.006	97	52872	0.1250	0.1332	
186 Benzo[b]fluoranthene	252	14.361	14.367	-0.006	97	48038	0.1250	0.1200	
187 Benzo[k]fluoranthene	252	14.404	14.410	-0.006	97	48185	0.1250	0.1187	
189 Benzo[a]pyrene	252	14.874	14.885	-0.011	80	41492	0.1250	0.1270	
193 Indeno[1,2,3-cd]pyrene	276	16.685	16.696	-0.011	92	52770	0.1250	0.1168	
194 Dibenz(a,h)anthracene	278	16.701	16.712	-0.011	79	44248	0.1250	0.1151	a
195 Benzo[g,h,i]perylene	276	17.177	17.188	-0.011	93	45257	0.1250	0.1173	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00307

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3478.D

Injection Date: 17-Apr-2018 17:42:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: IC L1 .125

Worklist Smp#: 3

Client ID:

Injection Vol: 2.0 ul

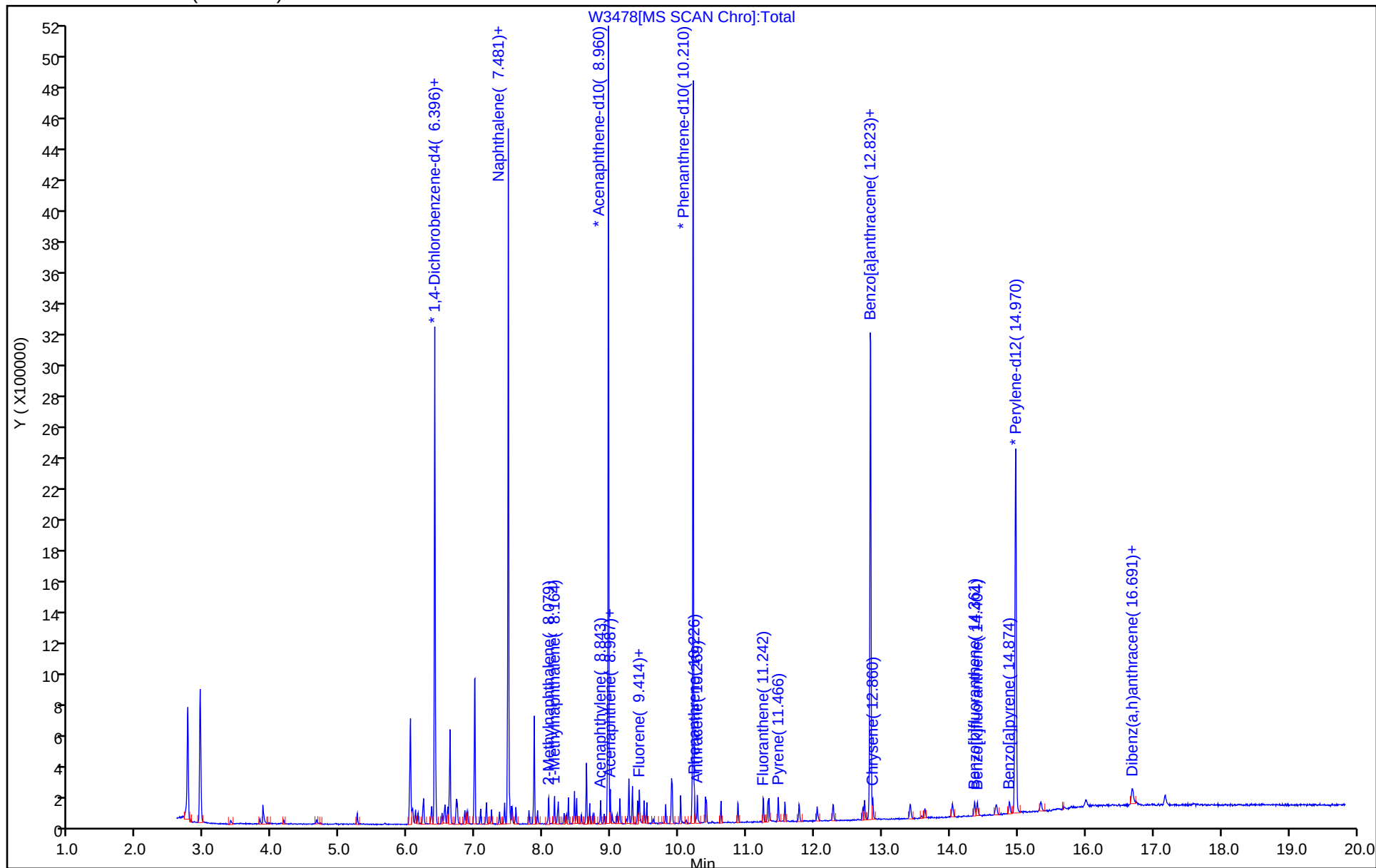
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3478.D

Injection Date: 17-Apr-2018 17:42:30

Instrument ID: HP5973W

Lims ID: IC L1 .125

Client ID:

Operator ID: PJQ

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: W-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

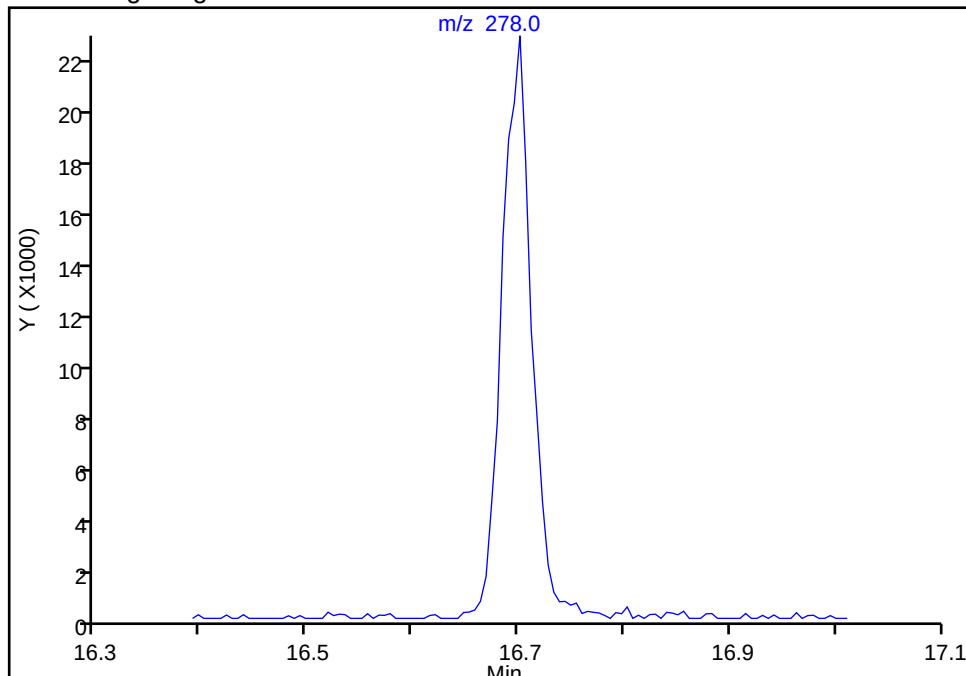
194 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

Not Detected

Expected RT: 16.71

Processing Integration Results



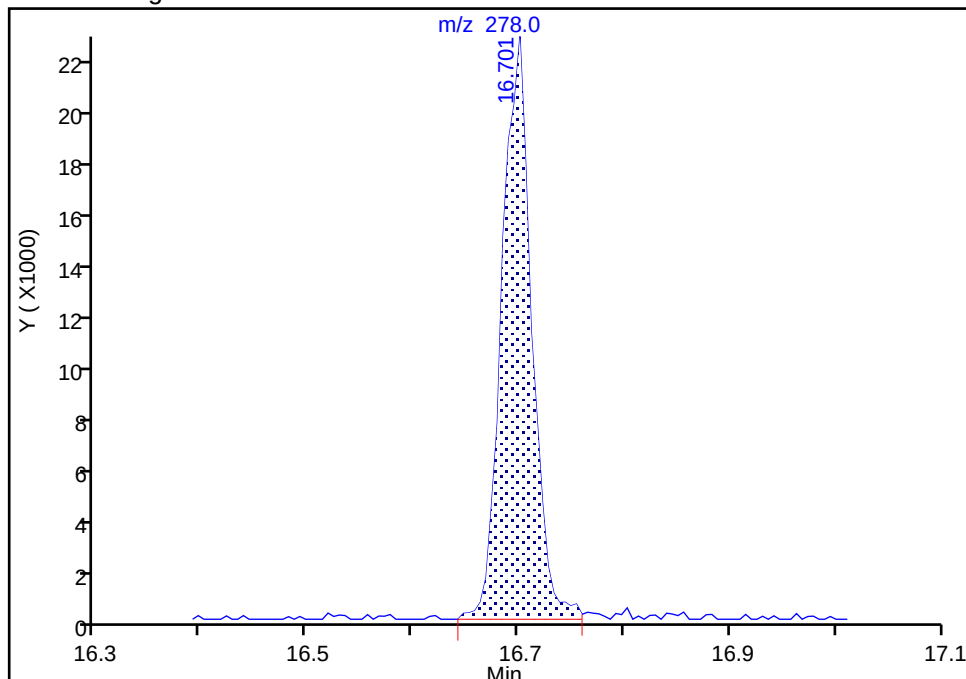
RT: 16.70

Area: 44248

Amount: 0.115125

Amount Units: ng/uL

Manual Integration Results



Reviewer: quirkp, 19-Apr-2018 11:24:45

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3479.D
 Lims ID: IC L1 .25
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 17-Apr-2018 18:11:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070726-004
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 12:27:53 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 11:28:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	514065	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	100	1983736	4.00	4.00	
* 3 Acenaphthene-d10	164	8.961	8.961	0.001	96	954249	4.00	4.00	
* 4 Phenanthrene-d10	188	10.205	10.211	-0.006	98	1592155	4.00	4.00	
* 5 Chrysene-d12	240	12.823	12.828	-0.005	99	1257334	4.00	4.00	
* 6 Perylene-d12	264	14.965	14.971	-0.006	97	1247490	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.253	5.248	0.005	92	37049	0.2500	0.2213	
\$ 8 Phenol-d5	99	6.060	6.060	0.000	0	49362	0.2500	0.2337	
\$ 9 Nitrobenzene-d5	82	6.866	6.866	0.000	88	42328	0.2500	0.2358	
\$ 10 2-Fluorobiphenyl	172	8.368	8.368	0.000	99	91490	0.2500	0.2623	
\$ 11 2,4,6-Tribromophenol	330	9.618	9.623	-0.005	90	5830	0.2500	0.2930	
\$ 12 p-Terphenyl-d14	244	11.562	11.568	-0.006	99	70140	0.2500	0.2502	
14 1,4-Dioxane	88	3.383	3.367	0.016	97	20738	0.2500	0.2314	
15 N-Nitrosodimethylamine	42	3.811	3.800	0.011	92	24916	0.2500	0.2540	
16 Pyridine	52	3.853	3.837	0.016	94	76757	0.5000	0.4911	
36 Benzaldehyde	77	6.022	6.022	0.000	93	69380	0.5000	0.5202	
37 Phenol	94	6.070	6.070	0.000	98	57584	0.2500	0.2346	
38 Aniline	93	6.113	6.113	0.000	98	68422	0.2500	0.2387	
40 Bis(2-chloroethyl)ether	93	6.151	6.150	0.001	96	50724	0.2500	0.2454	
41 2-Chlorophenol	128	6.220	6.220	0.000	95	48439	0.2500	0.2438	
43 n-Decane	57	6.231	6.231	0.000	92	56511	0.2500	0.2491	
44 1,3-Dichlorobenzene	146	6.348	6.353	-0.005	99	58445	0.2500	0.2535	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	94	59233	0.2500	0.2517	
46 Benzyl alcohol	108	6.503	6.503	0.000	95	26396	0.2500	0.2511	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	98	54966	0.2500	0.2475	
49 2-Methylphenol	108	6.589	6.589	0.000	94	44037	0.2500	0.2389	
50 2,2'-oxybis[1-chloropropan	45	6.605	6.610	-0.005	94	76102	0.2500	0.2621	
48 Indene	115	6.621	6.626	-0.005	88	388505	1.25	1.41	
56 4-Methylphenol	108	6.712	6.711	0.001	94	44349	0.2500	0.2469	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	92	29345	0.2500	0.2575	
53 Acetophenone	105	6.728	6.733	-0.005	97	63088	0.2500	0.2332	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	96	20074	0.2500	0.2346	
61 Nitrobenzene	77	6.883	6.882	0.000	88	47886	0.2500	0.2433	
63 Isophorone	82	7.075	7.075	0.000	98	76599	0.2500	0.2347	
67 2-Nitrophenol	139	7.155	7.149	0.006	95	20016	0.2500	0.2849	
68 2,4-Dimethylphenol	107	7.160	7.160	0.000	94	44193	0.2500	0.2356	
71 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	99	54635	0.2500	0.2468	
72 Benzoic acid	105	7.198	7.256	-0.058	83	12565	1.25	4.08	Ma
74 2,4-Dichlorophenol	162	7.353	7.352	0.001	91	33835	0.2500	0.2566	
75 1,2,4-Trichlorobenzene	180	7.427	7.427	0.000	94	43290	0.2500	0.2521	
76 Naphthalene	128	7.502	7.502	0.000	94	146488	0.2500	0.2744	
78 4-Chloroaniline	127	7.529	7.529	0.000	97	53433	0.2500	0.2412	
79 2,6-Dichlorophenol	162	7.540	7.539	0.001	97	33289	0.2500	0.2168	
81 Hexachlorobutadiene	225	7.593	7.593	0.000	95	22102	0.2500	0.2532	
84 Caprolactam	113	7.791	7.823	-0.032	80	17629	0.5000	0.5043	
87 4-Chloro-3-methylphenol	107	7.914	7.919	-0.005	97	34663	0.2500	0.2545	
89 2-Methylnaphthalene	142	8.074	8.079	-0.005	92	98749	0.2500	0.2647	
91 1-Methylnaphthalene	142	8.165	8.165	0.001	93	93536	0.2500	0.2626	
93 Hexachlorocyclopentadiene	237	8.207	8.213	-0.006	97	15994	0.2500	0.2838	
92 1,2,4,5-Tetrachlorobenzene	216	8.218	8.223	-0.005	97	37868	0.2500	0.2474	
94 2,4,6-Trichlorophenol	196	8.304	8.309	-0.005	91	18766	0.2500	0.2759	
95 2,4,5-Trichlorophenol	196	8.341	8.341	0.000	95	21106	0.2500	0.2841	
97 1,1'-Biphenyl	154	8.458	8.458	0.000	95	112935	0.2500	0.2693	
98 2-Chloronaphthalene	162	8.491	8.490	0.001	96	85991	0.2500	0.2597	
100 2-Nitroaniline	65	8.555	8.560	-0.005	84	18633	0.2500	0.2527	
104 Dimethyl phthalate	163	8.683	8.688	-0.005	99	93225	0.2500	0.2627	
105 1,3-Dinitrobenzene	168	8.726	8.725	0.001	84	9705	0.2500	0.2975	
106 2,6-Dinitrotoluene	165	8.747	8.747	0.000	94	16692	0.2500	0.2506	
107 Acenaphthylene	152	8.843	8.843	0.000	98	115382	0.2500	0.2539	
108 3-Nitroaniline	138	8.897	8.902	-0.005	96	19531	0.2500	0.2517	
110 2,4-Dinitrophenol	184	8.982	8.987	-0.005	57	3528	0.5000	1.37	
109 Acenaphthene	153	8.987	8.987	0.000	94	89508	0.2500	0.2621	
111 4-Nitrophenol	109	9.014	9.019	-0.005	88	13525	0.5000	0.5163	
113 2,4-Dinitrotoluene	165	9.089	9.089	0.000	93	18796	0.2500	0.2537	
114 Dibenzofuran	168	9.126	9.131	-0.005	97	119726	0.2500	0.2709	
117 2,3,4,6-Tetrachlorophenol	232	9.228	9.228	0.000	75	9672	0.2500	0.2596	
120 Hexadecane	57	9.260	9.260	0.000	92	58482	0.2500	0.2515	
119 Diethyl phthalate	149	9.265	9.265	0.000	98	91688	0.2500	0.2616	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.393	0.000	92	43768	0.2500	0.2556	
125 4-Nitroaniline	138	9.409	9.415	-0.006	87	19317	0.2500	0.2511	
123 Fluorene	166	9.415	9.420	-0.005	95	94631	0.2500	0.2589	
126 4,6-Dinitro-2-methylphenol	198	9.431	9.436	-0.005	85	8187	0.5000	1.11	
129 N-Nitrosodiphenylamine	169	9.484	9.489	-0.005	61	67102	0.2500	0.2527	
128 Diphenylamine	169	9.484	9.489	-0.005	96	67102	0.2138	0.2161	
130 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	1	89913	0.2500	0.2534	a
131 Azobenzene	77	9.527	9.527	0.000	99	89916	0.2500	0.2513	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	69	21620	0.2500	0.2330	
138 Hexachlorobenzene	284	9.890	9.890	0.000	92	24553	0.2500	0.2573	
141 Atrazine	200	9.901	9.906	-0.005	92	34818	0.5000	0.4500	
146 n-Octadecane	57	10.024	10.024	0.000	96	55165	0.2500	0.2436	
143 Pentachlorophenol	266	10.045	10.045	0.000	89	3389	0.5000	0.5442	M
149 Phenanthrene	178	10.227	10.232	-0.005	98	133140	0.2500	0.2734	
150 Anthracene	178	10.269	10.275	-0.006	99	124439	0.2500	0.2571	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.387	10.392	-0.005	96	107798	0.2500	0.2505	
154 Di-n-butyl phthalate	149	10.617	10.622	-0.005	100	127060	0.2500	0.2513	
161 Fluoranthene	202	11.242	11.247	-0.005	98	119522	0.2500	0.2589	
164 Benzidine	184	11.327	11.332	-0.005	99	102266	0.5000	0.4888	
165 Pyrene	202	11.466	11.466	0.000	97	119518	0.2500	0.2594	
172 Butyl benzyl phthalate	149	12.038	12.038	0.000	98	43675	0.2500	0.2548	
180 Bis(2-ethylhexyl) phthalat	149	12.716	12.716	0.000	97	55412	0.2500	0.2493	
177 3,3'-Dichlorobenzidine	252	12.738	12.743	-0.005	75	59904	0.5000	0.5002	
179 Benzo[a]anthracene	228	12.807	12.812	-0.005	99	102298	0.2500	0.2425	
181 Chrysene	228	12.860	12.866	-0.006	97	101432	0.2500	0.2526	
184 Di-n-octyl phthalate	149	13.630	13.630	0.000	99	92668	0.2500	0.2503	
186 Benzo[b]fluoranthene	252	14.362	14.367	-0.005	98	93252	0.2500	0.2337	
187 Benzo[k]fluoranthene	252	14.404	14.410	-0.006	99	94080	0.2500	0.2325	
189 Benzo[a]pyrene	252	14.874	14.885	-0.011	79	86599	0.2500	0.2427	
193 Indeno[1,2,3-cd]pyrene	276	16.686	16.696	-0.010	93	101674	0.2500	0.2258	
194 Dibenz(a,h)anthracene	278	16.696	16.712	-0.016	78	87875	0.2500	0.2293	
195 Benzo[g,h,i]perylene	276	17.177	17.188	-0.011	95	91270	0.2500	0.2373	
S 258 3-Methylphenol	1				0			0.2469	
S 262 Total Cresols	1				0			0.4858	
S 257 3 & 4 Methylphenol	108				0			0.2469	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00308

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180417-70726.b\\W3479.D

Injection Date: 17-Apr-2018 18:11:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: IC L1 .25

Worklist Smp#: 4

Client ID:

Injection Vol: 2.0 ul

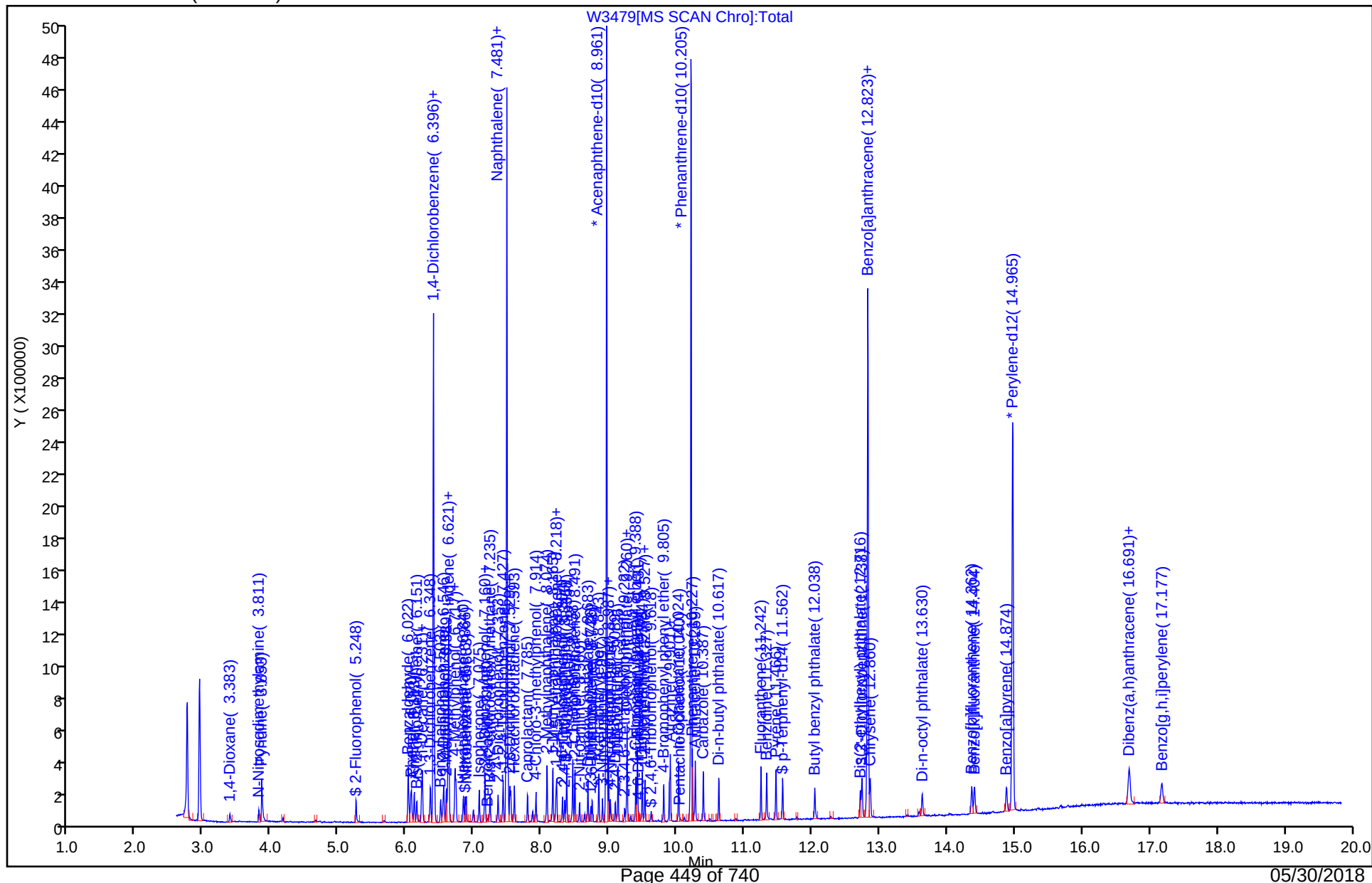
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3480.D
 Lims ID: IC L1 1.0
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 17-Apr-2018 18:39:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070726-005
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 12:27:59 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 11:29:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	96	511274	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	2022449	4.00	4.00	
* 3 Acenaphthene-d10	164	8.961	8.961	0.001	96	966258	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.211	0.000	98	1624398	4.00	4.00	
* 5 Chrysene-d12	240	12.828	12.828	0.000	98	1329921	4.00	4.00	
* 6 Perylene-d12	264	14.971	14.971	0.000	97	1275576	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.248	5.248	0.000	93	157219	1.00	0.9443	
\$ 8 Phenol-d5	99	6.060	6.060	0.000	0	205939	1.00	0.9802	
\$ 9 Nitrobenzene-d5	82	6.866	6.866	0.000	88	178029	1.00	0.9485	
\$ 10 2-Fluorobiphenyl	172	8.368	8.368	0.000	100	370717	1.00	1.05	
\$ 11 2,4,6-Tribromophenol	330	9.618	9.623	-0.005	92	31574	1.00	0.9562	
\$ 12 p-Terphenyl-d14	244	11.562	11.568	-0.006	99	297312	1.00	1.00	
14 1,4-Dioxane	88	3.378	3.367	0.011	98	83558	1.00	1.02	
15 N-Nitrosodimethylamine	42	3.805	3.800	0.005	92	99664	1.00	1.02	
16 Pyridine	52	3.843	3.837	0.006	94	316794	2.00	2.04	
36 Benzaldehyde	77	6.022	6.022	0.000	94	277601	2.00	2.09	
37 Phenol	94	6.070	6.070	0.000	98	243275	1.00	1.00	
38 Aniline	93	6.108	6.113	-0.005	98	284413	1.00	1.00	
40 Bis(2-chloroethyl)ether	93	6.151	6.150	0.001	98	205982	1.00	1.00	
41 2-Chlorophenol	128	6.220	6.220	0.000	96	196007	1.00	0.99	
43 n-Decane	57	6.231	6.231	0.000	91	228484	1.00	1.01	
44 1,3-Dichlorobenzene	146	6.348	6.353	-0.005	99	228150	1.00	1.00	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	96	236432	1.00	1.01	
46 Benzyl alcohol	108	6.503	6.503	0.000	94	119946	1.00	0.9762	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	97	221198	1.00	1.00	
49 2-Methylphenol	108	6.583	6.589	-0.006	93	178936	1.00	0.9759	
50 2,2'-oxybis[1-chloropropan	45	6.605	6.610	-0.005	93	296908	1.00	1.03	
48 Indene	115	6.621	6.626	-0.005	89	1550598	5.00	5.53	
56 4-Methylphenol	108	6.711	6.711	0.000	94	183683	1.00	0.9645	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	91	129446	1.00	0.9753	
53 Acetophenone	105	6.727	6.733	-0.006	97	271596	1.00	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	94	80246	1.00	0.9428	
61 Nitrobenzene	77	6.882	6.882	0.000	88	199664	1.00	1.00	
63 Isophorone	82	7.075	7.075	0.000	99	337684	1.00	1.01	
67 2-Nitrophenol	139	7.150	7.149	0.001	94	92298	1.00	0.9395	
68 2,4-Dimethylphenol	107	7.160	7.160	0.000	95	192125	1.00	1.00	
71 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	99	232013	1.00	1.03	
72 Benzoic acid	105	7.214	7.256	-0.042	0	145675	5.00	5.43	M
74 2,4-Dichlorophenol	162	7.353	7.352	0.001	93	153109	1.00	0.9753	
75 1,2,4-Trichlorobenzene	180	7.427	7.427	0.000	94	175256	1.00	1.00	
76 Naphthalene	128	7.502	7.502	0.000	97	589910	1.00	1.08	
78 4-Chloroaniline	127	7.529	7.529	0.000	96	239103	1.00	1.06	
79 2,6-Dichlorophenol	162	7.540	7.539	0.001	97	154632	1.00	0.9880	
81 Hexachlorobutadiene	225	7.593	7.593	0.000	97	87841	1.00	0.9872	
84 Caprolactam	113	7.796	7.823	-0.027	79	91231	2.00	1.93	
87 4-Chloro-3-methylphenol	107	7.913	7.919	-0.006	95	145192	1.00	0.9440	
89 2-Methylnaphthalene	142	8.074	8.079	-0.005	92	400159	1.00	1.05	
91 1-Methylnaphthalene	142	8.165	8.165	0.001	93	377836	1.00	1.04	
93 Hexachlorocyclopentadiene	237	8.207	8.213	-0.006	94	78378	1.00	0.9279	
92 1,2,4,5-Tetrachlorobenzene	216	8.218	8.223	-0.005	98	155264	1.00	1.00	
94 2,4,6-Trichlorophenol	196	8.303	8.309	-0.006	92	88990	1.00	0.9330	
95 2,4,5-Trichlorophenol	196	8.341	8.341	0.000	95	92440	1.00	0.9220	
97 1,1'-Biphenyl	154	8.458	8.458	0.000	95	460170	1.00	1.08	
98 2-Chloronaphthalene	162	8.490	8.490	0.000	96	345672	1.00	1.03	
100 2-Nitroaniline	65	8.555	8.560	-0.005	88	88808	1.00	0.9555	
104 Dimethyl phthalate	163	8.683	8.688	-0.005	99	379664	1.00	1.06	
105 1,3-Dinitrobenzene	168	8.725	8.725	0.000	88	51271	1.00	0.9135	
106 2,6-Dinitrotoluene	165	8.747	8.747	0.000	95	83105	1.00	0.9882	
107 Acenaphthylene	152	8.843	8.843	0.000	98	498574	1.00	1.08	
108 3-Nitroaniline	138	8.896	8.902	-0.006	98	92477	1.00	0.9713	
110 2,4-Dinitrophenol	184	8.982	8.987	-0.005	82	40128	2.00	2.12	
109 Acenaphthene	153	8.987	8.987	0.000	94	360533	1.00	1.04	
111 4-Nitrophenol	109	9.014	9.019	-0.005	89	70640	2.00	1.79	
113 2,4-Dinitrotoluene	165	9.089	9.089	0.000	95	97625	1.00	0.9340	
114 Dibenzofuran	168	9.126	9.131	-0.005	97	487338	1.00	1.09	
117 2,3,4,6-Tetrachlorophenol	232	9.222	9.228	-0.006	78	54736	1.00	0.8700	
120 Hexadecane	57	9.260	9.260	0.000	95	239358	1.00	1.02	
119 Diethyl phthalate	149	9.265	9.265	0.000	98	364129	1.00	1.03	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.393	0.000	92	178004	1.00	1.03	
125 4-Nitroaniline	138	9.409	9.415	-0.006	92	99290	1.00	0.99	
123 Fluorene	166	9.415	9.420	-0.005	95	392099	1.00	1.06	
126 4,6-Dinitro-2-methylphenol	198	9.436	9.436	0.000	88	65315	2.00	2.06	
129 N-Nitrosodiphenylamine	169	9.484	9.489	-0.005	62	275678	1.00	1.02	
128 Diphenylamine	169	9.484	9.489	-0.005	95	275678	0.8550	0.8700	
130 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	41	387591	1.00	1.08	a
131 Azobenzene	77	9.527	9.527	0.000	98	387210	1.00	1.06	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	69	93788	1.00	0.99	
138 Hexachlorobenzene	284	9.890	9.890	0.000	92	94239	1.00	0.9681	
141 Atrazine	200	9.901	9.906	-0.005	93	168437	2.00	2.15	
146 n-Octadecane	57	10.024	10.024	0.000	94	236404	1.00	1.02	
143 Pentachlorophenol	266	10.045	10.045	0.000	90	41197	2.00	1.40	
149 Phenanthrene	178	10.227	10.232	-0.005	98	536506	1.00	1.08	
150 Anthracene	178	10.269	10.275	-0.006	98	543729	1.00	1.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.387	10.392	-0.005	96	482297	1.00	1.10	
154 Di-n-butyl phthalate	149	10.617	10.622	-0.005	100	560853	1.00	1.09	
161 Fluoranthene	202	11.242	11.247	-0.005	98	507893	1.00	1.08	
164 Benzidine	184	11.327	11.332	-0.005	99	475185	2.00	2.15	
165 Pyrene	202	11.466	11.466	0.000	97	516679	1.00	1.06	
172 Butyl benzyl phthalate	149	12.038	12.038	0.000	97	221067	1.00	0.9546	
180 Bis(2-ethylhexyl) phthalat	149	12.716	12.716	0.000	96	318407	1.00	1.00	
177 3,3'-Dichlorobenzidine	252	12.738	12.743	-0.005	74	283392	2.00	2.01	
179 Benzo[a]anthracene	228	12.812	12.812	0.000	99	452991	1.00	1.02	
181 Chrysene	228	12.860	12.866	-0.006	97	429349	1.00	1.01	
184 Di-n-octyl phthalate	149	13.630	13.630	0.000	99	500779	1.00	0.9676	
186 Benzo[b]fluoranthene	252	14.362	14.367	-0.005	98	400211	1.00	0.9809	
187 Benzo[k]fluoranthene	252	14.404	14.410	-0.006	99	415151	1.00	1.00	
189 Benzo[a]pyrene	252	14.880	14.885	-0.005	79	382302	1.00	0.9773	
193 Indeno[1,2,3-cd]pyrene	276	16.685	16.696	-0.011	95	449677	1.00	0.9765	
194 Dibenz(a,h)anthracene	278	16.701	16.712	-0.011	91	377750	1.00	0.9640	
195 Benzo[g,h,i]perylene	276	17.177	17.188	-0.011	95	385930	1.00	0.9813	
S 258 3-Methylphenol	1				0			0.9645	
S 262 Total Cresols	1				0			1.94	
S 257 3 & 4 Methylphenol	108				0			0.9645	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00309

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3480.D

Injection Date: 17-Apr-2018 18:39:30

Instrument ID: HP5973W

Operator ID: PJO

Lims ID: IC L1 1.0

Worklist Smp#: 5

Client ID:

Injection Vol: 2.0 ul

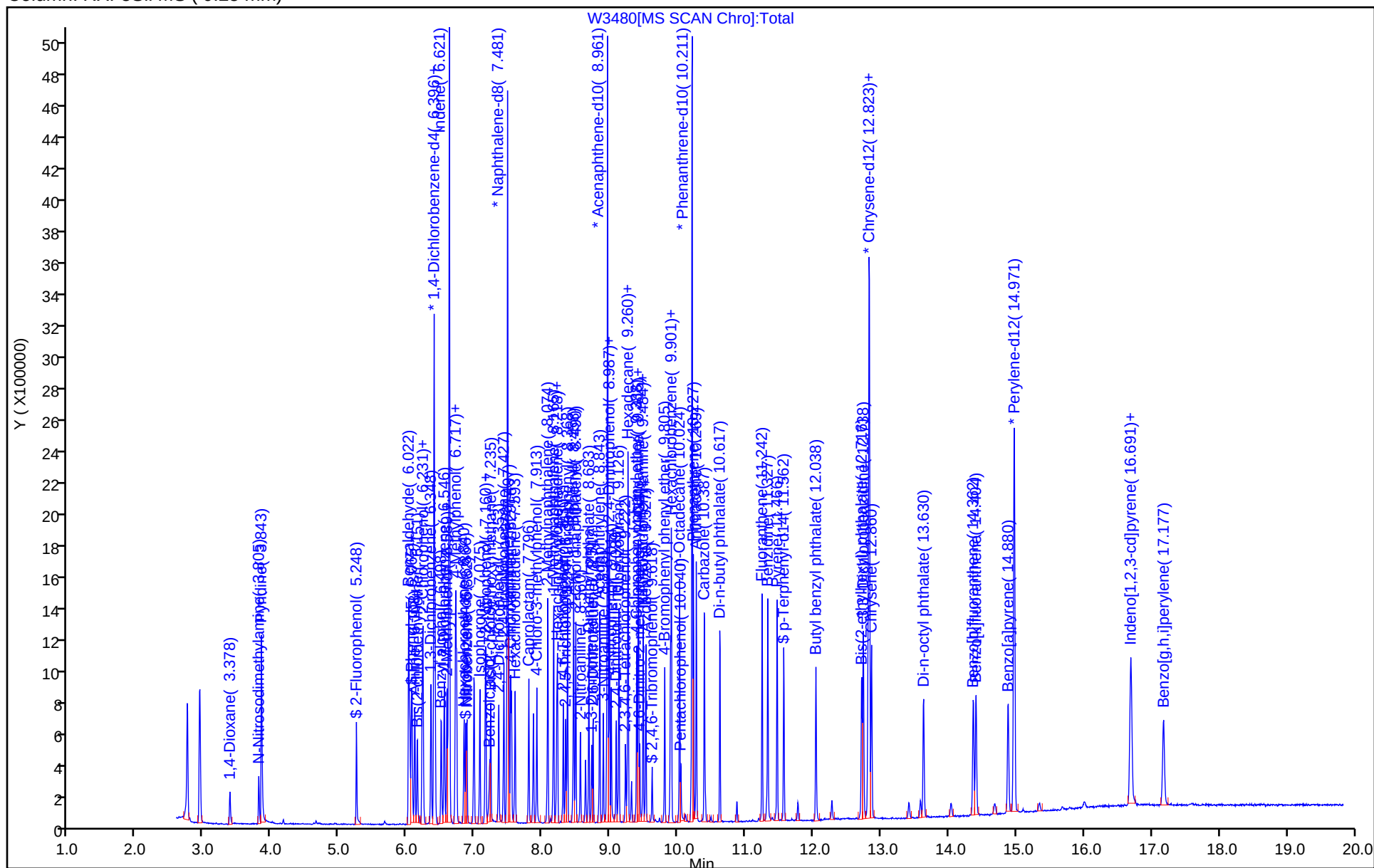
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3481.D
 Lims ID: IC L1 2.0
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 17-Apr-2018 19:08:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070726-006
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 12:28:07 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 11:32:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	96	508493	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	2039617	4.00	4.00	
* 3 Acenaphthene-d10	164	8.961	8.961	0.001	96	978247	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.211	0.000	98	1609530	4.00	4.00	
* 5 Chrysene-d12	240	12.828	12.828	0.000	99	1301295	4.00	4.00	
* 6 Perylene-d12	264	14.971	14.971	0.000	97	1264790	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.248	5.248	0.000	93	351136	2.00	2.12	
\$ 8 Phenol-d5	99	6.060	6.060	0.000	0	432059	2.00	2.07	
\$ 9 Nitrobenzene-d5	82	6.866	6.866	0.000	88	408646	2.00	2.15	
\$ 10 2-Fluorobiphenyl	172	8.368	8.368	0.000	100	754096	2.00	2.11	
\$ 11 2,4,6-Tribromophenol	330	9.618	9.623	-0.005	90	64233	2.00	1.82	
\$ 12 p-Terphenyl-d14	244	11.568	11.568	0.000	100	607367	2.00	2.09	
14 1,4-Dioxane	88	3.373	3.367	0.006	99	169254	2.00	2.11	
15 N-Nitrosodimethylamine	42	3.800	3.800	0.000	93	204020	2.00	2.10	
16 Pyridine	52	3.837	3.837	0.000	93	632021	4.00	4.09	
36 Benzaldehyde	77	6.022	6.022	0.000	94	572462	4.00	4.34	
37 Phenol	94	6.070	6.070	0.000	98	503020	2.00	2.07	
38 Aniline	93	6.113	6.113	0.000	98	587456	2.00	2.07	
40 Bis(2-chloroethyl)ether	93	6.151	6.150	0.001	98	424657	2.00	2.08	
41 2-Chlorophenol	128	6.220	6.220	0.000	97	401916	2.00	2.05	
43 n-Decane	57	6.231	6.231	0.000	92	464904	2.00	2.07	
44 1,3-Dichlorobenzene	146	6.348	6.353	-0.005	99	474342	2.00	2.08	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	96	485014	2.00	2.08	
46 Benzyl alcohol	108	6.503	6.503	0.000	95	254711	2.00	2.03	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	98	458387	2.00	2.09	
49 2-Methylphenol	108	6.589	6.589	0.000	93	374402	2.00	2.05	
50 2,2'-oxybis[1-chloropropan	45	6.605	6.610	-0.005	92	606495	2.00	2.11	
48 Indene	115	6.621	6.626	-0.005	91	3147049	10.0	11.1	
56 4-Methylphenol	108	6.711	6.711	0.000	95	395413	2.00	2.06	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	92	271574	2.00	2.00	
53 Acetophenone	105	6.728	6.733	-0.005	97	554183	2.00	2.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	97	171177	2.00	2.02	
61 Nitrobenzene	77	6.882	6.882	0.000	87	418034	2.00	2.07	
63 Isophorone	82	7.075	7.075	0.000	99	711339	2.00	2.12	
67 2-Nitrophenol	139	7.150	7.149	0.001	93	196598	2.00	1.87	
68 2,4-Dimethylphenol	107	7.160	7.160	0.000	94	393496	2.00	2.04	
71 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	100	474055	2.00	2.08	
72 Benzoic acid	105	7.235	7.256	-0.021	49	482141	10.0	8.80	Ma
74 2,4-Dichlorophenol	162	7.353	7.352	0.001	93	325154	2.00	2.00	
75 1,2,4-Trichlorobenzene	180	7.427	7.427	0.000	95	356495	2.00	2.02	
76 Naphthalene	128	7.502	7.502	0.000	97	1210013	2.00	2.20	
78 4-Chloroaniline	127	7.529	7.529	0.000	97	468063	2.00	2.06	
79 2,6-Dichlorophenol	162	7.540	7.539	0.001	98	323029	2.00	2.05	
81 Hexachlorobutadiene	225	7.593	7.593	0.000	98	177148	2.00	1.97	
84 Caprolactam	113	7.807	7.823	-0.016	80	199138	4.00	4.00	
87 4-Chloro-3-methylphenol	107	7.913	7.919	-0.006	96	323490	2.00	2.05	
89 2-Methylnaphthalene	142	8.079	8.079	0.000	92	812910	2.00	2.12	
91 1-Methylnaphthalene	142	8.165	8.165	0.001	92	767721	2.00	2.10	
93 Hexachlorocyclopentadiene	237	8.213	8.213	0.000	96	174295	2.00	1.90	
92 1,2,4,5-Tetrachlorobenzene	216	8.218	8.223	-0.005	98	316703	2.00	2.02	
94 2,4,6-Trichlorophenol	196	8.303	8.309	-0.006	93	200685	2.00	1.96	
95 2,4,5-Trichlorophenol	196	8.341	8.341	0.000	95	212536	2.00	1.98	
97 1,1'-Biphenyl	154	8.458	8.458	0.000	95	933737	2.00	2.17	
98 2-Chloronaphthalene	162	8.490	8.490	0.000	96	713442	2.00	2.10	
100 2-Nitroaniline	65	8.560	8.560	0.000	87	193059	2.00	1.98	
104 Dimethyl phthalate	163	8.683	8.688	-0.005	99	777562	2.00	2.14	
105 1,3-Dinitrobenzene	168	8.726	8.725	0.001	88	116278	2.00	1.87	
106 2,6-Dinitrotoluene	165	8.747	8.747	0.000	96	175834	2.00	2.00	
107 Acenaphthylene	152	8.843	8.843	0.000	98	1022213	2.00	2.19	
108 3-Nitroaniline	138	8.896	8.902	-0.006	97	196776	2.00	1.98	
110 2,4-Dinitrophenol	184	8.982	8.987	-0.005	87	113046	4.00	3.58	
109 Acenaphthene	153	8.987	8.987	0.000	94	740118	2.00	2.11	
111 4-Nitrophenol	109	9.014	9.019	-0.005	87	156530	4.00	3.68	
113 2,4-Dinitrotoluene	165	9.089	9.089	0.000	96	224257	2.00	2.01	
114 Dibenzofuran	168	9.126	9.131	-0.005	97	988005	2.00	2.18	
117 2,3,4,6-Tetrachlorophenol	232	9.228	9.228	0.000	75	129668	2.00	1.87	
120 Hexadecane	57	9.260	9.260	0.000	94	505272	2.00	2.12	
119 Diethyl phthalate	149	9.265	9.265	0.000	98	757200	2.00	2.11	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.393	0.000	93	357290	2.00	2.04	
125 4-Nitroaniline	138	9.409	9.415	-0.006	90	203359	2.00	1.94	
123 Fluorene	166	9.415	9.420	-0.005	94	786921	2.00	2.10	
126 4,6-Dinitro-2-methylphenol	198	9.436	9.436	0.000	88	169759	4.00	3.83	
129 N-Nitrosodiphenylamine	169	9.484	9.489	-0.005	63	557619	2.00	2.08	
128 Diphenylamine	169	9.484	9.489	-0.005	94	557619	1.71	1.78	
130 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	3	788790	2.00	2.17	a
131 Azobenzene	77	9.527	9.527	0.000	98	788790	2.00	2.18	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	69	192247	2.00	2.05	
138 Hexachlorobenzene	284	9.890	9.890	0.000	92	192651	2.00	2.00	
141 Atrazine	200	9.906	9.906	0.000	93	331876	4.00	4.18	
146 n-Octadecane	57	10.024	10.024	0.000	96	478439	2.00	2.09	
143 Pentachlorophenol	266	10.045	10.045	0.000	92	122102	4.00	3.27	
149 Phenanthrene	178	10.227	10.232	-0.005	98	1067651	2.00	2.17	
150 Anthracene	178	10.269	10.275	-0.006	98	1093992	2.00	2.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.392	10.392	0.000	96	962578	2.00	2.21	
154 Di-n-butyl phthalate	149	10.622	10.622	0.000	100	1172529	2.00	2.29	
161 Fluoranthene	202	11.247	11.247	0.000	98	1020161	2.00	2.19	
164 Benzidine	184	11.327	11.332	-0.005	99	945507	4.00	4.37	
165 Pyrene	202	11.466	11.466	0.000	97	1046975	2.00	2.20	
172 Butyl benzyl phthalate	149	12.038	12.038	0.000	98	480257	2.00	2.03	
180 Bis(2-ethylhexyl) phthalat	149	12.716	12.716	0.000	97	666881	2.00	2.04	
177 3,3'-Dichlorobenzidine	252	12.738	12.743	-0.005	74	556474	4.00	3.96	
179 Benzo[a]anthracene	228	12.812	12.812	0.000	100	901068	2.00	2.06	
181 Chrysene	228	12.860	12.866	-0.006	98	873943	2.00	2.10	
184 Di-n-octyl phthalate	149	13.630	13.630	0.000	99	1097358	2.00	2.07	
186 Benzo[b]fluoranthene	252	14.367	14.367	0.000	98	819097	2.00	2.02	
187 Benzo[k]fluoranthene	252	14.404	14.410	-0.006	98	883229	2.00	2.15	
189 Benzo[a]pyrene	252	14.880	14.885	-0.005	79	795209	2.00	2.03	
193 Indeno[1,2,3-cd]pyrene	276	16.691	16.696	-0.005	94	923784	2.00	2.02	
194 Dibenz(a,h)anthracene	278	16.701	16.712	-0.011	90	802250	2.00	2.06	
195 Benzo[g,h,i]perylene	276	17.182	17.188	-0.006	95	803723	2.00	2.06	
S 258 3-Methylphenol	1				0			2.06	
S 262 Total Cresols	1				0			4.12	
S 257 3 & 4 Methylphenol	108				0			2.06	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00310

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3481.D

Injection Date: 17-Apr-2018 19:08:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: IC L1 2.0

Worklist Smp#: 6

Client ID:

Injection Vol: 2.0 ul

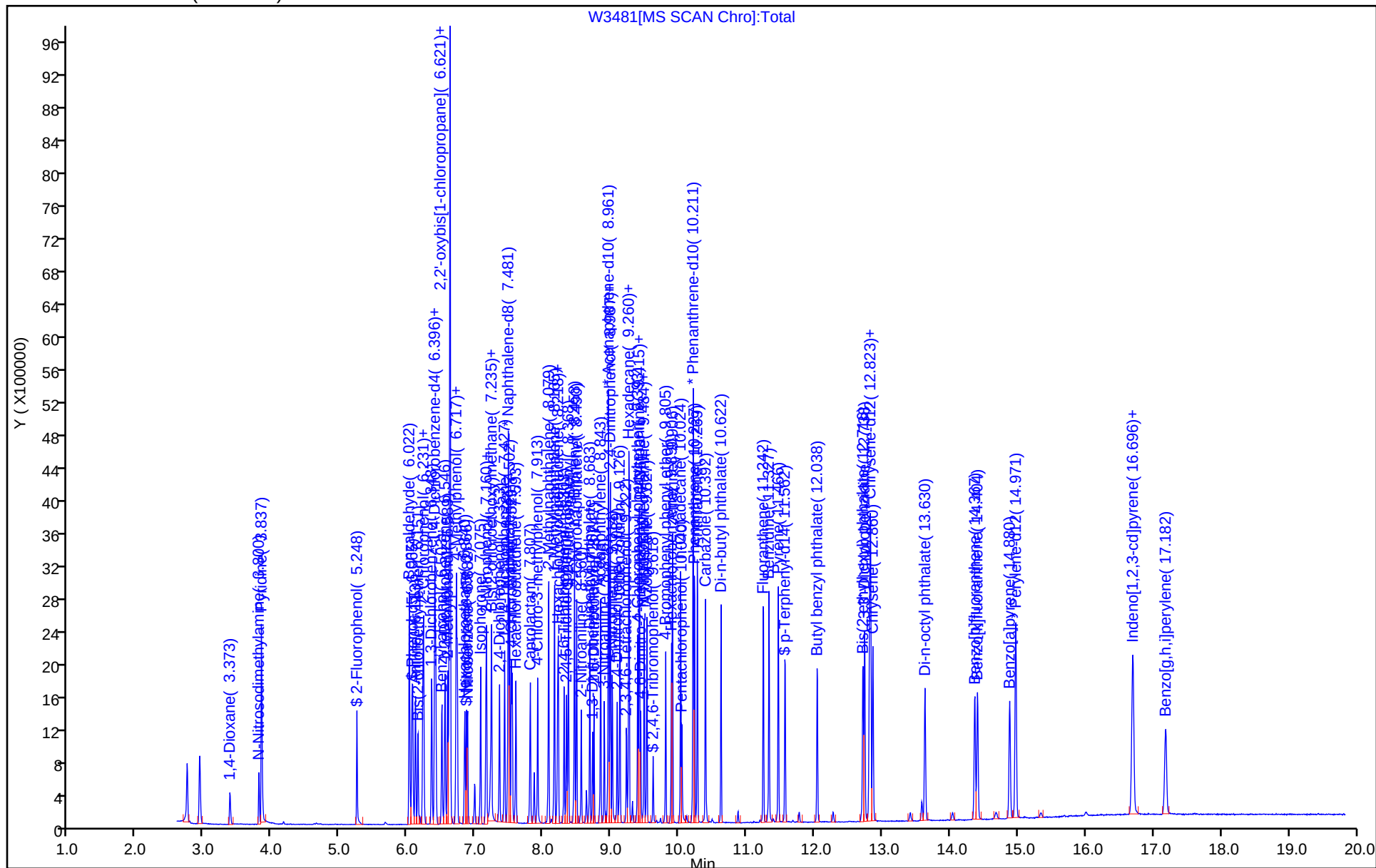
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3482.D
 Lims ID: ICIS L1 4.0
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 17-Apr-2018 19:37:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070726-007
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 12:28:12 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 11:13:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	512709	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	100	2059514	4.00	4.00	
* 3 Acenaphthene-d10	164	8.961	8.961	0.000	96	973727	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.211	0.000	98	1626088	4.00	4.00	a
* 5 Chrysene-d12	240	12.828	12.828	0.000	98	1311061	4.00	4.00	
* 6 Perylene-d12	264	14.971	14.971	0.000	97	1272940	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.248	5.248	0.000	92	695185	4.00	4.16	
\$ 8 Phenol-d5	99	6.060	6.060	0.000	0	864877	4.00	4.10	
\$ 9 Nitrobenzene-d5	82	6.866	6.866	0.000	88	821401	4.00	4.27	
\$ 10 2-Fluorobiphenyl	172	8.368	8.368	0.000	100	1492946	4.00	4.19	
\$ 11 2,4,6-Tribromophenol	330	9.623	9.623	0.000	88	140261	4.00	3.77	a
\$ 12 p-Terphenyl-d14	244	11.568	11.568	0.000	99	1188686	4.00	4.07	
14 1,4-Dioxane	88	3.367	3.367	0.000	98	328470	4.00	4.08	
15 N-Nitrosodimethylamine	42	3.800	3.800	0.000	94	394220	4.00	4.03	
16 Pyridine	52	3.837	3.837	0.000	93	1272977	8.00	8.17	
36 Benzaldehyde	77	6.022	6.022	0.000	94	1114588	8.00	8.38	
37 Phenol	94	6.070	6.070	0.000	98	1000654	4.00	4.09	
38 Aniline	93	6.113	6.113	0.000	98	1164460	4.00	4.07	
40 Bis(2-chloroethyl)ether	93	6.150	6.150	0.000	97	833323	4.00	4.04	
41 2-Chlorophenol	128	6.220	6.220	0.000	97	801725	4.00	4.05	
43 n-Decane	57	6.231	6.231	0.000	92	927237	4.00	4.10	
44 1,3-Dichlorobenzene	146	6.353	6.353	0.000	99	936937	4.00	4.08	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	95	955020	4.00	4.07	
46 Benzyl alcohol	108	6.503	6.503	0.000	94	509311	4.00	3.98	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	98	907260	4.00	4.10	
49 2-Methylphenol	108	6.589	6.589	0.000	93	747617	4.00	4.07	
50 2,2'-oxybis[1-chloropropan	45	6.610	6.610	0.000	94	1198382	4.00	4.14	
48 Indene	115	6.626	6.626	0.000	91	5451299	20.0	19.1	
56 4-Methylphenol	108	6.711	6.711	0.000	98	788170	4.00	4.06	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	91	551355	4.00	3.98	
53 Acetophenone	105	6.733	6.733	0.000	98	1116870	4.00	4.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	98	348465	4.00	4.08	
61 Nitrobenzene	77	6.882	6.882	0.000	87	816365	4.00	4.00	
63 Isophorone	82	7.075	7.075	0.000	99	1418696	4.00	4.19	
67 2-Nitrophenol	139	7.149	7.149	0.000	94	425156	4.00	3.90	
68 2,4-Dimethylphenol	107	7.160	7.160	0.000	95	792444	4.00	4.07	
71 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	100	927265	4.00	4.03	
72 Benzoic acid	105	7.256	7.256	0.000	86	1329543	20.0	17.2	Ma
74 2,4-Dichlorophenol	162	7.352	7.352	0.000	93	663720	4.00	4.00	
75 1,2,4-Trichlorobenzene	180	7.427	7.427	0.000	95	709833	4.00	3.98	
76 Naphthalene	128	7.502	7.502	0.000	98	2345803	4.00	4.23	
78 4-Chloroaniline	127	7.529	7.529	0.000	97	939349	4.00	4.08	
79 2,6-Dichlorophenol	162	7.539	7.539	0.000	98	652323	4.00	4.09	
81 Hexachlorobutadiene	225	7.593	7.593	0.000	98	360066	4.00	3.97	
84 Caprolactam	113	7.823	7.823	0.000	80	406525	8.00	7.93	
87 4-Chloro-3-methylphenol	107	7.919	7.919	0.000	96	654671	4.00	4.07	
89 2-Methylnaphthalene	142	8.079	8.079	0.000	93	1603439	4.00	4.14	
91 1-Methylnaphthalene	142	8.165	8.165	0.000	93	1518762	4.00	4.11	
93 Hexachlorocyclopentadiene	237	8.213	8.213	0.000	96	368615	4.00	3.90	
92 1,2,4,5-Tetrachlorobenzene	216	8.223	8.223	0.000	98	635460	4.00	4.07	
94 2,4,6-Trichlorophenol	196	8.309	8.309	0.000	92	413761	4.00	3.95	
95 2,4,5-Trichlorophenol	196	8.341	8.341	0.000	94	401862	4.00	3.67	
97 1,1'-Biphenyl	154	8.458	8.458	0.000	96	1830884	4.00	4.28	
98 2-Chloronaphthalene	162	8.490	8.490	0.000	96	1426482	4.00	4.22	
100 2-Nitroaniline	65	8.560	8.560	0.000	88	401581	4.00	4.07	
104 Dimethyl phthalate	163	8.688	8.688	0.000	100	1501343	4.00	4.15	
105 1,3-Dinitrobenzene	168	8.725	8.725	0.000	87	247917	4.00	3.77	
106 2,6-Dinitrotoluene	165	8.747	8.747	0.000	95	359281	4.00	4.03	
107 Acenaphthylene	152	8.843	8.843	0.000	98	2020754	4.00	4.36	
108 3-Nitroaniline	138	8.902	8.902	0.000	97	410774	4.00	4.09	
110 2,4-Dinitrophenol	184	8.987	8.987	0.000	81	305756	8.00	7.50	
109 Acenaphthene	153	8.987	8.987	0.000	94	1450647	4.00	4.16	
111 4-Nitrophenol	109	9.019	9.019	0.000	87	352564	8.00	8.05	
113 2,4-Dinitrotoluene	165	9.089	9.089	0.000	95	459338	4.00	4.03	
114 Dibenzofuran	168	9.131	9.131	0.000	96	1941949	4.00	4.31	
117 2,3,4,6-Tetrachlorophenol	232	9.228	9.228	0.000	75	284284	4.00	3.96	
120 Hexadecane	57	9.260	9.260	0.000	94	999199	4.00	4.21	
119 Diethyl phthalate	149	9.265	9.265	0.000	99	1504416	4.00	4.21	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.393	0.000	93	708022	4.00	4.05	
125 4-Nitroaniline	138	9.415	9.415	0.000	90	432381	4.00	4.05	
123 Fluorene	166	9.420	9.420	0.000	93	1555731	4.00	4.17	
126 4,6-Dinitro-2-methylphenol	198	9.436	9.436	0.000	82	394201	8.00	7.55	a
129 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	58	1107047	4.00	4.08	a
128 Diphenylamine	169	9.489	9.489	0.000	88	1107047	3.42	3.49	a
130 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	41	1550322	4.00	4.28	a
131 Azobenzene	77	9.527	9.527	0.000	96	1550322	4.00	4.24	a
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	65	379853	4.00	4.01	a
138 Hexachlorobenzene	284	9.890	9.890	0.000	86	385669	4.00	3.96	a
141 Atrazine	200	9.906	9.906	0.000	93	668293	8.00	8.46	
146 n-Octadecane	57	10.024	10.024	0.000	95	955834	4.00	4.13	a
143 Pentachlorophenol	266	10.045	10.045	0.000	74	330144	8.00	7.97	a
149 Phenanthrene	178	10.232	10.232	0.000	98	2068475	4.00	4.16	a
150 Anthracene	178	10.275	10.275	0.000	98	2133417	4.00	4.32	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.392	10.392	0.000	83	1899085	4.00	4.32	a
154 Di-n-butyl phthalate	149	10.622	10.622	0.000	100	2340701	4.00	4.53	a
161 Fluoranthene	202	11.247	11.247	0.000	98	2018173	4.00	4.28	a
164 Benzidine	184	11.332	11.332	0.000	99	1902034	8.00	8.72	
165 Pyrene	202	11.466	11.466	0.000	96	2033464	4.00	4.23	
172 Butyl benzyl phthalate	149	12.038	12.038	0.000	97	972031	4.00	4.02	
180 Bis(2-ethylhexyl) phthalat	149	12.716	12.716	0.000	96	1366905	4.00	4.07	
177 3,3'-Dichlorobenzidine	252	12.743	12.743	0.000	75	1135027	8.00	7.95	
179 Benzo[a]anthracene	228	12.812	12.812	0.000	99	1810533	4.00	4.12	
181 Chrysene	228	12.866	12.866	0.000	97	1696702	4.00	4.05	
184 Di-n-octyl phthalate	149	13.630	13.630	0.000	99	2254144	4.00	4.15	
186 Benzo[b]fluoranthene	252	14.367	14.367	0.000	98	1649449	4.00	4.05	
187 Benzo[k]fluoranthene	252	14.410	14.410	0.000	99	1688461	4.00	4.09	
189 Benzo[a]pyrene	252	14.885	14.885	0.000	79	1585810	4.00	4.00	
193 Indeno[1,2,3-cd]pyrene	276	16.696	16.696	0.000	96	1889812	4.00	4.11	
194 Dibenz(a,h)anthracene	278	16.712	16.712	0.000	92	1597081	4.00	4.08	
195 Benzo[g,h,i]perylene	276	17.188	17.188	0.000	95	1591952	4.00	4.06	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00311

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180417-70726.b\\W3482.D

Injection Date: 17-Apr-2018 19:37:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: ICIS L1 4.0

Worklist Smp#: 7

Client ID:

Injection Vol: 2.0 ul

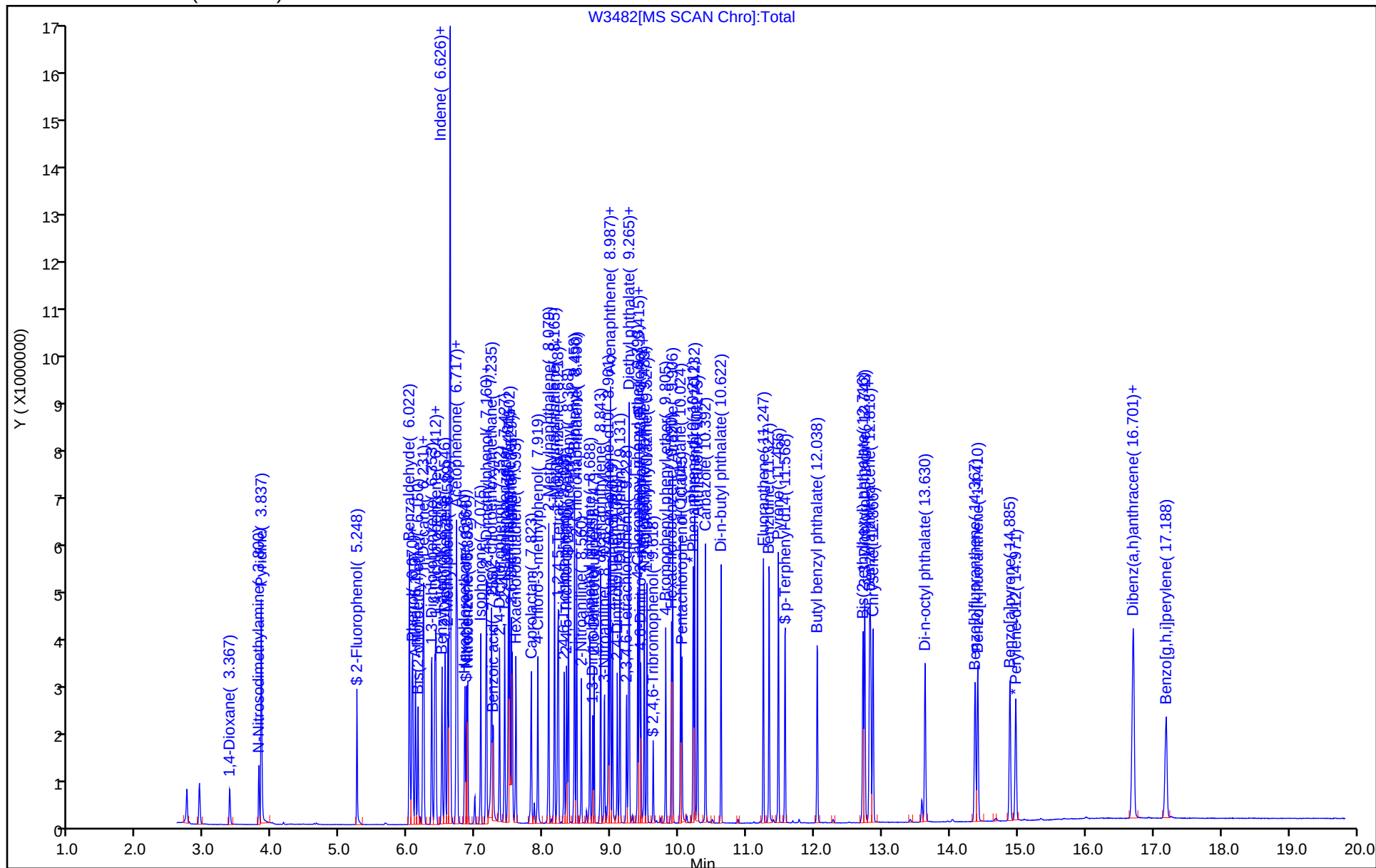
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3482.D

Injection Date: 17-Apr-2018 19:37:30

Instrument ID: HP5973W

Lims ID: ICIS L1 4.0

Client ID:

Operator ID: PJQ

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: W-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

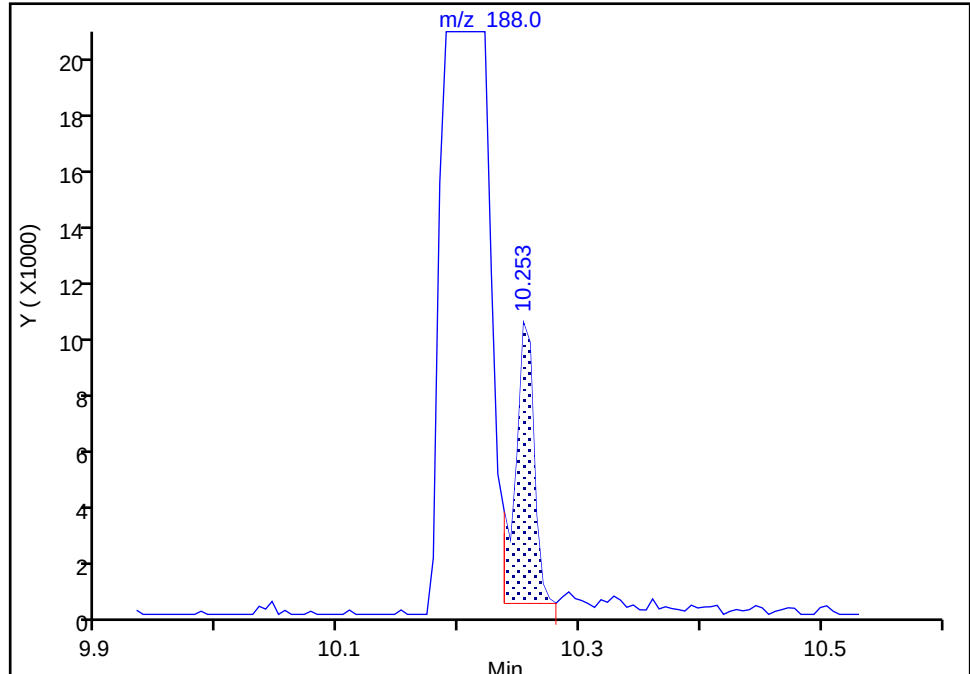
MS SCAN

* 4 Phenanthrene-d10, CAS: 1517-22-2

Signal: 1

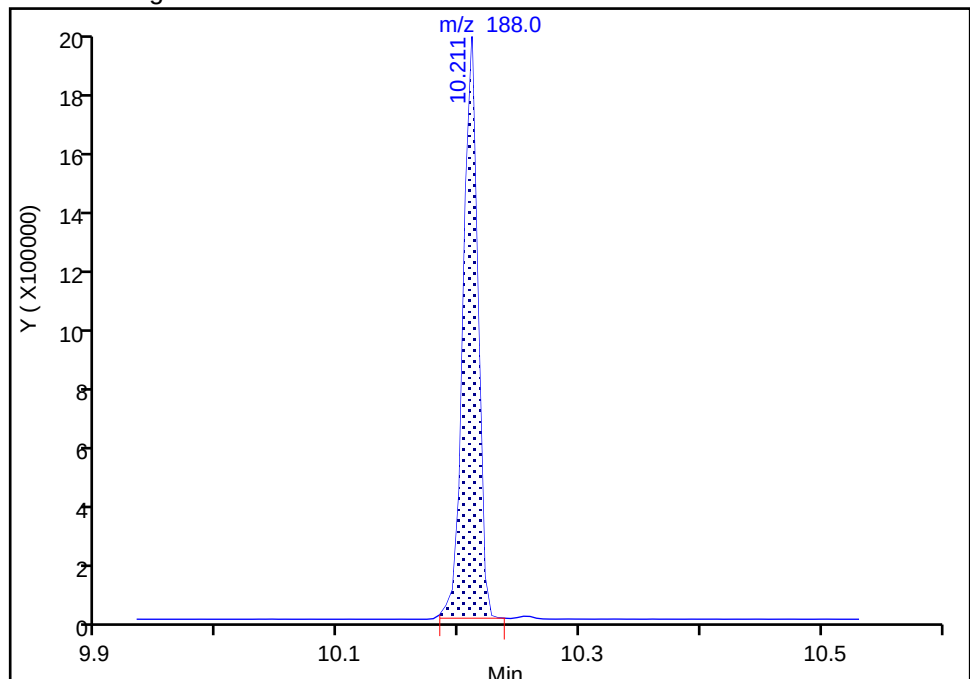
RT: 10.25
Area: 10549
Amount: 4.000000
Amount Units: ng/uL

Processing Integration Results



RT: 10.21
Area: 1626088
Amount: 4.000000
Amount Units: ng/uL

Manual Integration Results



Reviewer: quirkp, 19-Apr-2018 11:11:02

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3482.D

Injection Date: 17-Apr-2018 19:37:30

Instrument ID: HP5973W

Lims ID: ICIS L1 4.0

Client ID:

Operator ID: Pjq

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: W-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

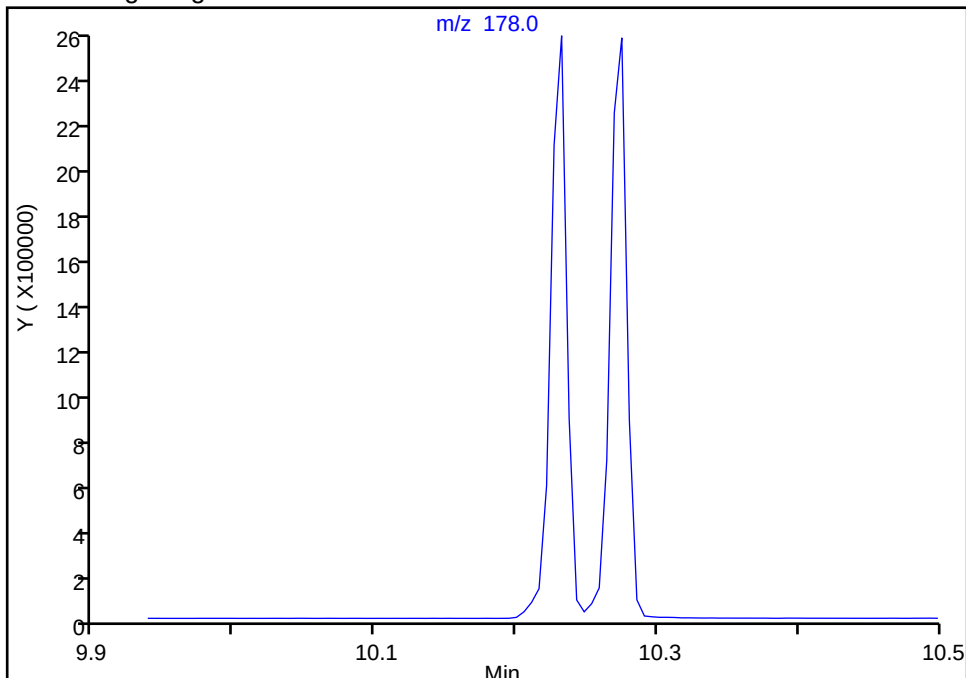
149 Phenanthrene, CAS: 85-01-8

Signal: 1

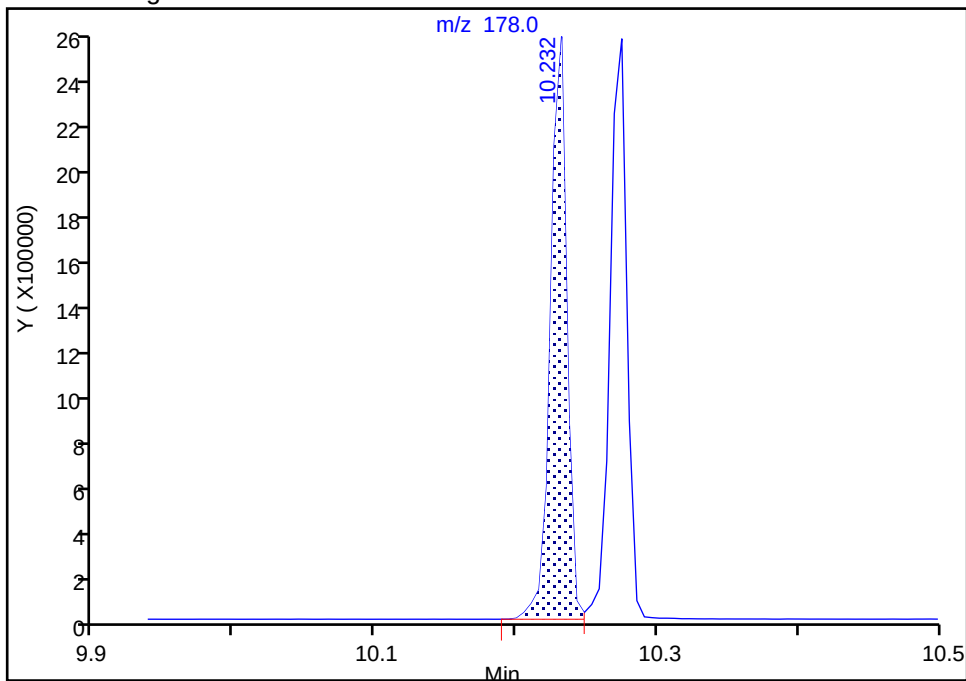
Not Detected

Expected RT: 10.23

Processing Integration Results



Manual Integration Results



Reviewer: quirkp, 19-Apr-2018 11:12:20

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3482.D

Injection Date: 17-Apr-2018 19:37:30

Instrument ID: HP5973W

Lims ID: ICIS L1 4.0

Client ID:

Operator ID: PJQ

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

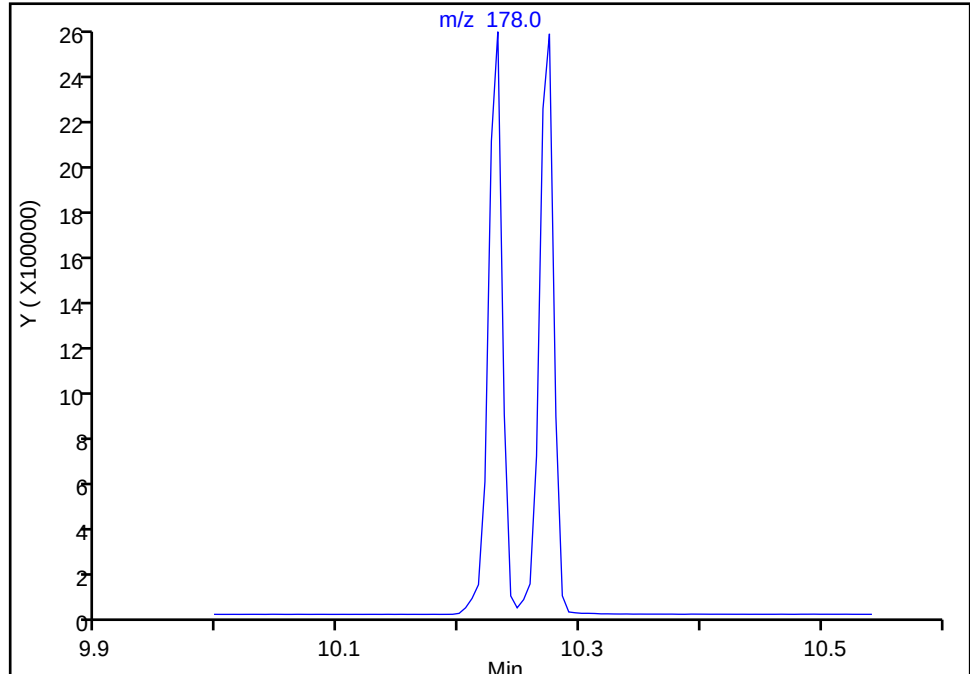
150 Anthracene, CAS: 120-12-7

Signal: 1

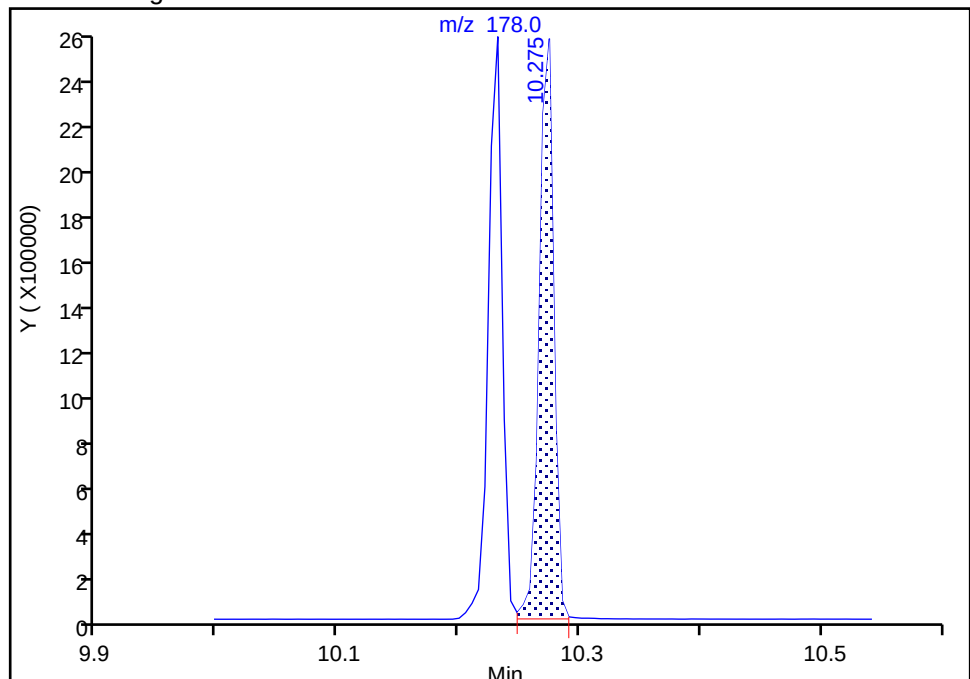
Not Detected

Expected RT: 10.27

Processing Integration Results



Manual Integration Results



RT: 10.27

Area: 2133417

Amount: 4.315409

Amount Units: ng/uL

Reviewer: quirkp, 19-Apr-2018 11:12:28

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3482.D

Injection Date: 17-Apr-2018 19:37:30

Instrument ID: HP5973W

Lims ID: ICIS L1 4.0

Client ID:

Operator ID: PJQ

ALS Bottle#: 7

Worklist Smp#: 7

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

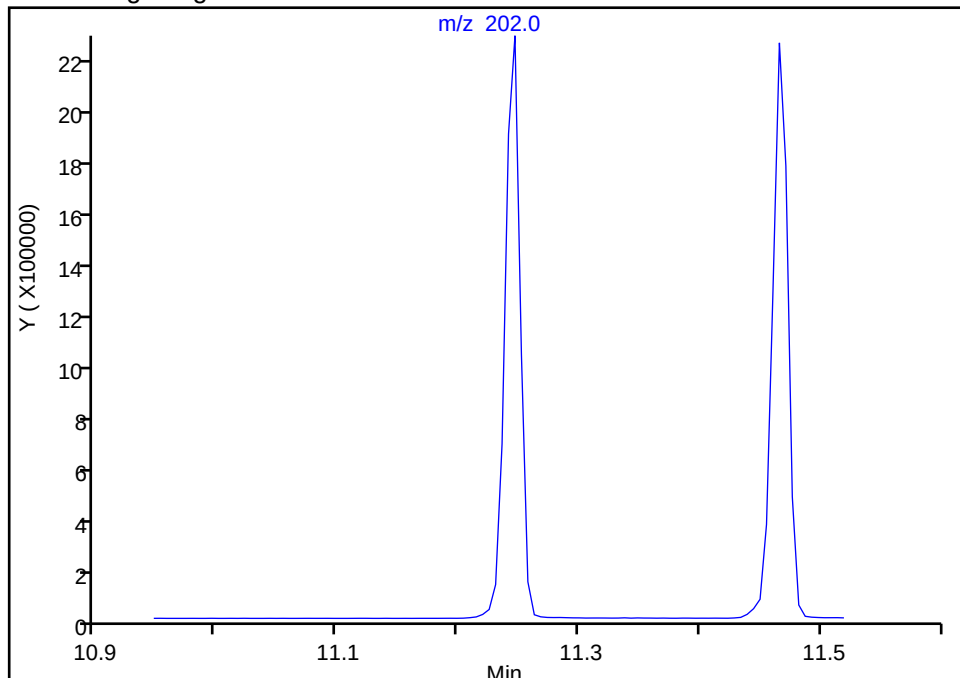
161 Fluoranthene, CAS: 206-44-0

Signal: 1

Not Detected

Expected RT: 11.25

Processing Integration Results



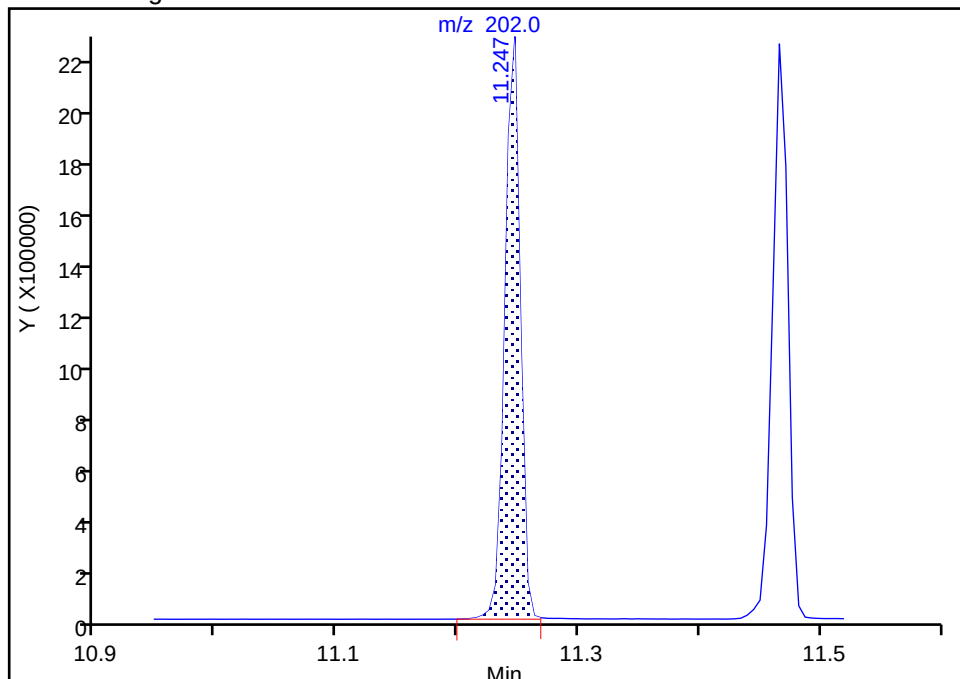
RT: 11.25

Area: 2018173

Amount: 4.280348

Amount Units: ng/uL

Manual Integration Results



Reviewer: quirkp, 19-Apr-2018 11:12:42

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3483.D
 Lims ID: IC L1 8.0
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 17-Apr-2018 20:05:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070726-008
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 12:28:21 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 11:36:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	528983	4.00	4.00	
* 2 Naphthalene-d8	136	7.486	7.481	0.005	99	2110191	4.00	4.00	
* 3 Acenaphthene-d10	164	8.961	8.961	0.001	96	1015238	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.211	0.000	98	1667750	4.00	4.00	
* 5 Chrysene-d12	240	12.834	12.828	0.006	99	1357204	4.00	4.00	
* 6 Perylene-d12	264	14.971	14.971	0.000	97	1308614	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.248	5.248	0.000	93	1432865	8.00	8.32	
\$ 8 Phenol-d5	99	6.065	6.060	0.005	0	1753348	8.00	8.07	
\$ 9 Nitrobenzene-d5	82	6.866	6.866	0.000	88	1550071	8.00	7.86	
\$ 10 2-Fluorobiphenyl	172	8.373	8.368	0.005	98	2974342	8.00	8.01	
\$ 11 2,4,6-Tribromophenol	330	9.623	9.623	0.000	92	308821	8.00	7.92	
\$ 12 p-Terphenyl-d14	244	11.568	11.568	0.000	99	2427227	8.00	8.02	
14 1,4-Dioxane	88	3.373	3.367	0.006	97	659350	8.00	7.96	
15 N-Nitrosodimethylamine	42	3.805	3.800	0.005	94	795034	8.00	7.88	
16 Pyridine	52	3.837	3.837	0.000	93	2518944	16.0	15.7	
36 Benzaldehyde	77	6.022	6.022	0.000	94	2174570	16.0	15.8	
37 Phenol	94	6.076	6.070	0.006	98	2043135	8.00	8.09	
38 Aniline	93	6.113	6.113	0.000	98	2406689	8.00	8.16	
40 Bis(2-chloroethyl)ether	93	6.151	6.150	0.001	97	1651978	8.00	7.77	
41 2-Chlorophenol	128	6.220	6.220	0.000	97	1631076	8.00	7.98	
43 n-Decane	57	6.231	6.231	0.000	91	1870982	8.00	8.01	
44 1,3-Dichlorobenzene	146	6.354	6.353	0.001	99	1878430	8.00	7.92	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	94	1914428	8.00	7.91	
46 Benzyl alcohol	108	6.503	6.503	0.000	94	1051519	8.00	7.91	
47 1,2-Dichlorobenzene	146	6.551	6.546	0.005	98	1809464	8.00	7.92	
49 2-Methylphenol	108	6.589	6.589	0.000	93	1534725	8.00	8.09	
50 2,2'-oxybis[1-chloropropan	45	6.610	6.610	0.000	93	2346620	8.00	7.86	
48 Indene	115	6.626	6.626	0.000	91	8114936	40.0	27.8	
56 4-Methylphenol	108	6.717	6.711	0.006	97	1627958	8.00	8.11	
55 N-Nitrosodi-n-propylamine	70	6.722	6.717	0.005	90	1140531	8.00	7.94	
53 Acetophenone	105	6.733	6.733	0.000	97	2251325	8.00	8.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	99	714911	8.00	8.12	
61 Nitrobenzene	77	6.882	6.882	0.000	88	1689805	8.00	8.07	
63 Isophorone	82	7.080	7.075	0.005	99	2835067	8.00	8.17	
67 2-Nitrophenol	139	7.155	7.149	0.006	94	893867	8.00	7.90	
68 2,4-Dimethylphenol	107	7.160	7.160	0.000	94	1615473	8.00	8.10	
71 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	100	1892510	8.00	8.04	
72 Benzoic acid	105	7.294	7.256	0.038	88	3489383	40.0	37.9	Ma
74 2,4-Dichlorophenol	162	7.353	7.352	0.001	93	1360060	8.00	7.95	
75 1,2,4-Trichlorobenzene	180	7.427	7.427	0.000	94	1459716	8.00	7.99	
76 Naphthalene	128	7.502	7.502	0.000	99	4394092	8.00	7.74	
78 4-Chloroaniline	127	7.529	7.529	0.000	96	1935578	8.00	8.22	
79 2,6-Dichlorophenol	162	7.545	7.539	0.006	99	1347119	8.00	8.25	
81 Hexachlorobutadiene	225	7.598	7.593	0.005	98	736250	8.00	7.93	
84 Caprolactam	113	7.844	7.823	0.021	80	849500	16.0	16.0	
87 4-Chloro-3-methylphenol	107	7.919	7.919	0.000	95	1329293	8.00	8.03	
89 2-Methylnaphthalene	142	8.079	8.079	0.000	92	3145365	8.00	7.92	
91 1-Methylnaphthalene	142	8.165	8.165	0.001	92	2999312	8.00	7.92	
93 Hexachlorocyclopentadiene	237	8.213	8.213	0.000	97	786056	8.00	7.86	
92 1,2,4,5-Tetrachlorobenzene	216	8.223	8.223	0.000	98	1294476	8.00	7.95	
94 2,4,6-Trichlorophenol	196	8.309	8.309	0.000	92	853862	8.00	7.73	
95 2,4,5-Trichlorophenol	196	8.346	8.341	0.005	95	947174	8.00	8.18	
97 1,1'-Biphenyl	154	8.458	8.458	0.000	98	3510654	8.00	7.87	
98 2-Chloronaphthalene	162	8.490	8.490	0.000	97	2817772	8.00	8.00	
100 2-Nitroaniline	65	8.560	8.560	0.000	88	832747	8.00	8.03	
104 Dimethyl phthalate	163	8.688	8.688	0.000	99	2962887	8.00	7.85	
105 1,3-Dinitrobenzene	168	8.731	8.725	0.006	89	543219	8.00	7.90	
106 2,6-Dinitrotoluene	165	8.752	8.747	0.005	96	746972	8.00	7.98	
107 Acenaphthylene	152	8.848	8.843	0.005	98	3887231	8.00	8.04	
108 3-Nitroaniline	138	8.902	8.902	0.000	97	835924	8.00	7.93	
110 2,4-Dinitrophenol	184	8.987	8.987	0.000	84	757736	16.0	16.0	
109 Acenaphthene	153	8.993	8.987	0.006	96	2831332	8.00	7.79	
111 4-Nitrophenol	109	9.025	9.019	0.006	86	760071	16.0	16.4	
113 2,4-Dinitrotoluene	165	9.094	9.089	0.005	96	965593	8.00	8.04	
114 Dibenzofuran	168	9.131	9.131	0.000	95	3673113	8.00	7.81	
117 2,3,4,6-Tetrachlorophenol	232	9.228	9.228	0.000	75	619043	8.00	8.13	
120 Hexadecane	57	9.260	9.260	0.000	95	1960684	8.00	7.92	
119 Diethyl phthalate	149	9.270	9.265	0.005	98	2963794	8.00	7.95	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.393	0.000	94	1413065	8.00	7.76	
125 4-Nitroaniline	138	9.420	9.415	0.005	59	912411	8.00	8.13	
123 Fluorene	166	9.420	9.420	0.000	93	3080271	8.00	7.92	
126 4,6-Dinitro-2-methylphenol	198	9.441	9.436	0.005	86	902681	16.0	15.7	
129 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	64	2208835	8.00	7.94	
128 Diphenylamine	169	9.489	9.489	0.000	94	2208835	6.84	6.79	
130 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	1	3000050	8.00	7.95	a
131 Azobenzene	77	9.527	9.527	0.000	98	3000050	8.00	8.01	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	68	776776	8.00	7.99	
138 Hexachlorobenzene	284	9.890	9.890	0.000	92	807124	8.00	8.08	
141 Atrazine	200	9.911	9.906	0.005	93	1323371	16.0	16.1	
146 n-Octadecane	57	10.024	10.024	0.000	98	1910754	8.00	8.06	
143 Pentachlorophenol	266	10.045	10.045	0.000	93	788565	16.0	17.9	
149 Phenanthrene	178	10.232	10.232	0.000	98	3951368	8.00	7.75	
150 Anthracene	178	10.275	10.275	0.000	99	4053497	8.00	7.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.392	10.392	0.000	97	3594982	8.00	7.98	
154 Di-n-butyl phthalate	149	10.622	10.622	0.000	100	4244227	8.00	8.01	
161 Fluoranthene	202	11.247	11.247	0.000	99	3842525	8.00	7.95	
164 Benzidine	184	11.332	11.332	0.000	99	3701473	16.0	16.4	
165 Pyrene	202	11.471	11.466	0.005	95	3959679	8.00	7.96	
172 Butyl benzyl phthalate	149	12.043	12.038	0.005	97	2044715	8.00	8.09	
180 Bis(2-ethylhexyl) phthalat	149	12.716	12.716	0.000	96	2818757	8.00	8.03	
177 3,3'-Dichlorobenzidine	252	12.748	12.743	0.005	74	2395167	16.0	16.1	
179 Benzo[a]anthracene	228	12.818	12.812	0.006	100	3639965	8.00	7.99	
181 Chrysene	228	12.871	12.866	0.005	97	3404107	8.00	7.85	
184 Di-n-octyl phthalate	149	13.635	13.630	0.005	99	4721914	8.00	8.32	
186 Benzo[b]fluoranthene	252	14.372	14.367	0.005	98	3378254	8.00	8.07	
187 Benzo[k]fluoranthene	252	14.415	14.410	0.005	98	3453955	8.00	8.14	
189 Benzo[a]pyrene	252	14.890	14.885	0.005	79	3306087	8.00	8.08	
193 Indeno[1,2,3-cd]pyrene	276	16.707	16.696	0.011	96	3872632	8.00	8.20	
194 Dibenz(a,h)anthracene	278	16.717	16.712	0.005	91	3353480	8.00	8.34	
195 Benzo[g,h,i]perylene	276	17.204	17.188	0.016	95	3319974	8.00	8.23	
S 258 3-Methylphenol	1				0			8.11	
S 262 Total Cresols	1				0			16.2	
S 257 3 & 4 Methylphenol	108				0			8.11	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00312

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3483.D

Injection Date: 17-Apr-2018 20:05:30

Instrument ID: HP5973W

Operator ID: PJO

Lims ID: IC L1 8.0

Worklist Smp#: 8

Client ID:

Injection Vol: 2.0 ul

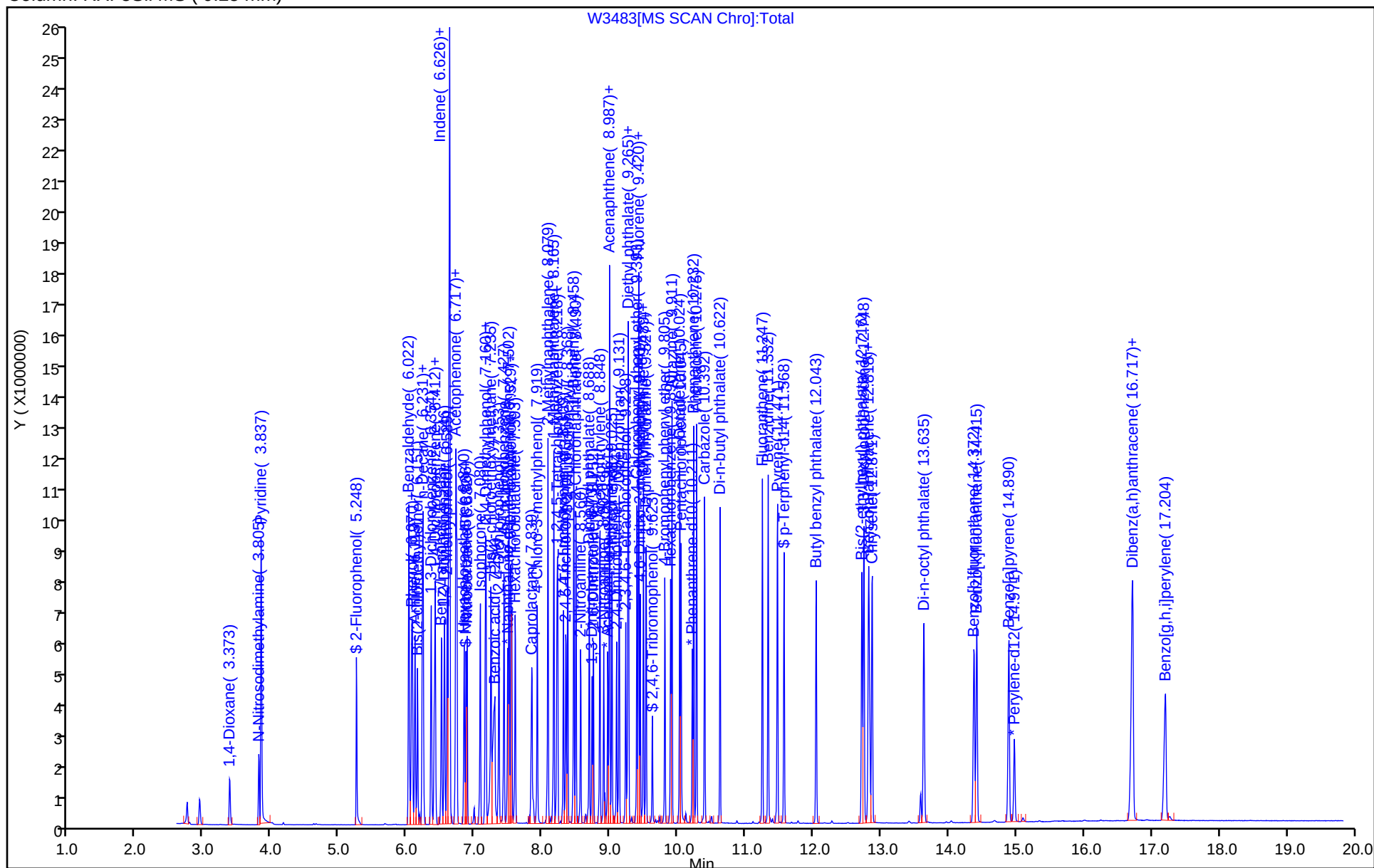
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3484.D
 Lims ID: IC L1 12.0
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 17-Apr-2018 20:33:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070726-009
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 12:28:26 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 11:37:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	545533	4.00	4.00	
* 2 Naphthalene-d8	136	7.486	7.481	0.005	99	2192822	4.00	4.00	
* 3 Acenaphthene-d10	164	8.960	8.961	0.000	96	1041445	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.211	0.000	98	1716002	4.00	4.00	
* 5 Chrysene-d12	240	12.834	12.828	0.006	99	1404240	4.00	4.00	
* 6 Perylene-d12	264	14.976	14.971	0.005	97	1331162	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.253	5.248	0.005	92	2162003	12.0	12.2	
\$ 8 Phenol-d5	99	6.065	6.060	0.005	0	2696508	12.0	12.0	
\$ 9 Nitrobenzene-d5	82	6.872	6.866	0.006	88	2432867	12.0	11.9	
\$ 10 2-Fluorobiphenyl	172	8.373	8.368	0.005	96	4268936	12.0	11.2	
\$ 11 2,4,6-Tribromophenol	330	9.623	9.623	0.000	91	485938	12.0	12.0	
\$ 12 p-Terphenyl-d14	244	11.568	11.568	0.000	98	3698007	12.0	11.8	
14 1,4-Dioxane	88	3.378	3.367	0.011	97	1011037	12.0	11.8	
15 N-Nitrosodimethylamine	42	3.811	3.800	0.011	94	1193703	12.0	11.5	
16 Pyridine	52	3.843	3.837	0.006	90	4035614	24.0	24.3	
36 Benzaldehyde	77	6.028	6.022	0.006	94	3122852	24.0	22.1	
37 Phenol	94	6.081	6.070	0.011	98	3125397	12.0	12.0	
38 Aniline	93	6.118	6.113	0.005	97	3627794	12.0	11.9	
40 Bis(2-chloroethyl)ether	93	6.156	6.150	0.006	95	2564716	12.0	11.7	
41 2-Chlorophenol	128	6.225	6.220	0.005	97	2518964	12.0	11.9	
43 n-Decane	57	6.236	6.231	0.005	90	2817725	12.0	11.7	
44 1,3-Dichlorobenzene	146	6.353	6.353	0.000	98	2867188	12.0	11.7	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	93	2927680	12.0	11.7	
46 Benzyl alcohol	108	6.508	6.503	0.005	94	1645457	12.0	12.0	
47 1,2-Dichlorobenzene	146	6.551	6.546	0.005	97	2763091	12.0	11.7	
49 2-Methylphenol	108	6.594	6.589	0.005	96	2349145	12.0	12.0	
50 2,2'-oxybis[1-chloropropan	45	6.610	6.610	0.000	95	3480243	12.0	11.3	
48 Indene	115	6.631	6.626	0.005	87	10040572	60.0	33.0	
56 4-Methylphenol	108	6.717	6.711	0.006	96	2476264	12.0	12.0	
55 N-Nitrosodi-n-propylamine	70	6.727	6.717	0.010	89	1772632	12.0	11.9	
53 Acetophenone	105	6.738	6.733	0.005	98	3437643	12.0	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	99	1120833	12.0	12.3	
61 Nitrobenzene	77	6.888	6.882	0.006	87	2603044	12.0	12.0	
63 Isophorone	82	7.080	7.075	0.005	98	4236303	12.0	11.7	
67 2-Nitrophenol	139	7.155	7.149	0.006	93	1413380	12.0	12.0	
68 2,4-Dimethylphenol	107	7.165	7.160	0.005	94	2482474	12.0	12.0	
71 Bis(2-chloroethoxy)methane	93	7.240	7.235	0.005	99	2848905	12.0	11.6	
72 Benzoic acid	105	7.320	7.256	0.064	87	6313116	60.0	63.0	Ma
74 2,4-Dichlorophenol	162	7.358	7.352	0.006	93	2144300	12.0	12.0	
75 1,2,4-Trichlorobenzene	180	7.433	7.427	0.006	95	2255486	12.0	11.9	
76 Naphthalene	128	7.502	7.502	0.000	98	5985265	12.0	10.1	
78 4-Chloroaniline	127	7.534	7.529	0.005	95	2800490	12.0	11.4	
79 2,6-Dichlorophenol	162	7.545	7.539	0.006	99	2102586	12.0	12.4	
81 Hexachlorobutadiene	225	7.598	7.593	0.005	98	1157500	12.0	12.0	
84 Caprolactam	113	7.855	7.823	0.032	81	1328689	24.0	24.0	a
87 4-Chloro-3-methylphenol	107	7.924	7.919	0.005	95	2066359	12.0	12.0	
89 2-Methylnaphthalene	142	8.079	8.079	0.000	90	4526047	12.0	11.0	
91 1-Methylnaphthalene	142	8.164	8.165	0.000	91	4349094	12.0	11.0	
93 Hexachlorocyclopentadiene	237	8.213	8.213	0.000	95	1261586	12.0	12.2	
92 1,2,4,5-Tetrachlorobenzene	216	8.223	8.223	0.000	98	2031304	12.0	12.2	
94 2,4,6-Trichlorophenol	196	8.309	8.309	0.000	92	1392323	12.0	12.2	
95 2,4,5-Trichlorophenol	196	8.346	8.341	0.005	95	1426270	12.0	12.0	
97 1,1'-Biphenyl	154	8.464	8.458	0.006	96	4909835	12.0	10.7	
98 2-Chloronaphthalene	162	8.496	8.490	0.006	98	4105373	12.0	11.4	
100 2-Nitroaniline	65	8.565	8.560	0.005	88	1304861	12.0	12.2	
104 Dimethyl phthalate	163	8.693	8.688	0.005	97	4326862	12.0	11.2	
105 1,3-Dinitrobenzene	168	8.736	8.725	0.011	91	865993	12.0	12.0	
106 2,6-Dinitrotoluene	165	8.752	8.747	0.005	95	1191816	12.0	12.4	
107 Acenaphthylene	152	8.848	8.843	0.005	96	5395955	12.0	10.9	
108 3-Nitroaniline	138	8.907	8.902	0.005	97	1323474	12.0	12.2	
110 2,4-Dinitrophenol	184	8.993	8.987	0.006	68	1230264	24.0	24.6	
109 Acenaphthene	153	8.993	8.987	0.006	91	4102568	12.0	11.0	
111 4-Nitrophenol	109	9.030	9.019	0.011	87	1208408	24.0	25.3	
113 2,4-Dinitrotoluene	165	9.094	9.089	0.005	96	1516347	12.0	12.3	
114 Dibenzofuran	168	9.131	9.131	0.000	93	5167939	12.0	10.7	
117 2,3,4,6-Tetrachlorophenol	232	9.228	9.228	0.000	75	1008471	12.0	12.8	
120 Hexadecane	57	9.265	9.260	0.005	95	2949199	12.0	11.6	
119 Diethyl phthalate	149	9.270	9.265	0.005	98	4350372	12.0	11.4	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.393	0.000	96	2219841	12.0	11.9	
125 4-Nitroaniline	138	9.425	9.415	0.010	92	1432387	12.0	12.4	
123 Fluorene	166	9.420	9.420	0.000	92	4438607	12.0	11.1	
126 4,6-Dinitro-2-methylphenol	198	9.447	9.436	0.011	87	1501173	24.0	24.7	
129 N-Nitrosodiphenylamine	169	9.495	9.489	0.006	65	3338102	12.0	11.7	
128 Diphenylamine	169	9.495	9.489	0.006	92	3338102	10.3	9.97	
130 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	41	4283063	12.0	11.1	a
131 Azobenzene	77	9.532	9.527	0.005	95	4283063	12.0	11.1	
137 4-Bromophenyl phenyl ether	248	9.810	9.805	0.005	66	1225470	12.0	12.3	
138 Hexachlorobenzene	284	9.895	9.890	0.005	92	1232027	12.0	12.0	
141 Atrazine	200	9.917	9.906	0.011	94	2054213	24.0	24.3	
146 n-Octadecane	57	10.029	10.024	0.005	97	2868930	12.0	11.8	
143 Pentachlorophenol	266	10.050	10.045	0.005	91	1402451	24.0	30.7	
149 Phenanthrene	178	10.232	10.232	0.000	96	5282032	12.0	10.1	
150 Anthracene	178	10.280	10.275	0.005	96	5477006	12.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.398	10.392	0.006	97	5023067	12.0	10.8	
154 Di-n-butyl phthalate	149	10.622	10.622	0.000	98	5685904	12.0	10.4	
161 Fluoranthene	202	11.247	11.247	0.000	97	5358347	12.0	10.8	
164 Benzidine	184	11.338	11.332	0.006	98	5273179	24.0	22.6	
165 Pyrene	202	11.471	11.466	0.005	91	5579982	12.0	10.8	
172 Butyl benzyl phthalate	149	12.043	12.038	0.005	98	3152761	12.0	12.0	
180 Bis(2-ethylhexyl) phthalat	149	12.716	12.716	0.000	96	4356939	12.0	12.0	
177 3,3'-Dichlorobenzidine	252	12.753	12.743	0.010	75	3703473	24.0	24.1	
179 Benzo[a]anthracene	228	12.818	12.812	0.006	100	5457903	12.0	11.6	
181 Chrysene	228	12.871	12.866	0.005	96	5131361	12.0	11.4	
184 Di-n-octyl phthalate	149	13.635	13.630	0.005	99	6982931	12.0	11.9	
186 Benzo[b]fluoranthene	252	14.378	14.367	0.011	98	5337485	12.0	12.5	
187 Benzo[k]fluoranthene	252	14.420	14.410	0.010	97	5282433	12.0	12.2	
189 Benzo[a]pyrene	252	14.896	14.885	0.011	80	5056401	12.0	12.1	
193 Indeno[1,2,3-cd]pyrene	276	16.723	16.696	0.027	97	6090188	12.0	12.7	
194 Dibenz(a,h)anthracene	278	16.728	16.712	0.016	93	5202484	12.0	12.7	
195 Benzo[g,h,i]perylene	276	17.214	17.188	0.026	95	5071993	12.0	12.4	
S 258 3-Methylphenol	1				0			12.0	
S 262 Total Cresols	1				0			24.0	
S 257 3 & 4 Methylphenol	108				0			12.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00313

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 20-Apr-2018 12:28:27

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3484.D

Injection Date: 17-Apr-2018 20:33:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: IC L1 12.0

Worklist Smp#: 9

Client ID:

Injection Vol: 2.0 ul

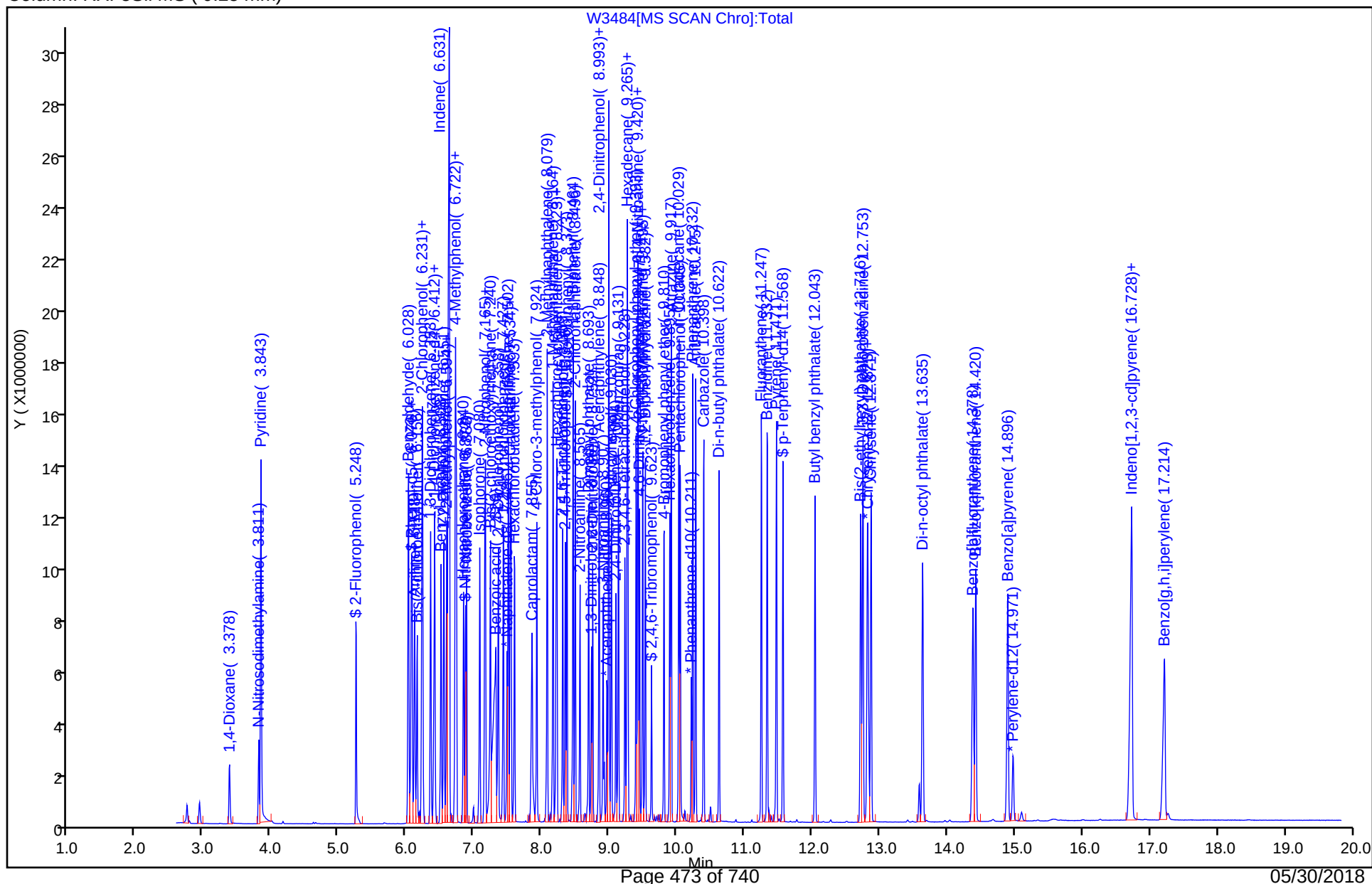
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D

Lims ID: IC L1 16.0

Client ID:

Sample Type: IC

Calib Level: 8

Inject. Date: 17-Apr-2018 21:02:30

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Sample Info: 480-0070726-010

Operator ID: PJQ

Instrument ID: HP5973W

Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W-LVI-8270.m

Limit Group: MB - 8270D ICAL

Last Update: 20-Apr-2018 12:28:32

Calib Date: 17-Apr-2018 21:02:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D

Column 1 : RXI-5Sil MS (0.25 mm)

Det: MS SCAN

Process Host: XAWRK041

First Level Reviewer: quirkp

Date: 19-Apr-2018 12:01:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	538049	4.00	4.00	
* 2 Naphthalene-d8	136	7.486	7.481	0.005	99	2178809	4.00	4.00	
* 3 Acenaphthene-d10	164	8.966	8.961	0.006	95	1064250	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.211	0.000	98	1725772	4.00	4.00	
* 5 Chrysene-d12	240	12.839	12.828	0.011	99	1402500	4.00	4.00	
* 6 Perylene-d12	264	14.976	14.971	0.005	97	1334986	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.253	5.248	0.005	93	2846448	16.0	16.2	
\$ 8 Phenol-d5	99	6.070	6.060	0.010	0	3589647	16.0	16.2	
\$ 9 Nitrobenzene-d5	82	6.872	6.866	0.006	88	3245326	16.0	15.9	
\$ 10 2-Fluorobiphenyl	172	8.373	8.368	0.005	94	5369288	16.0	13.8	
\$ 11 2,4,6-Tribromophenol	330	9.628	9.623	0.005	92	669692	16.0	16.5	
\$ 12 p-Terphenyl-d14	244	11.567	11.568	-0.001	97	4736675	16.0	15.1	
14 1,4-Dioxane	88	3.373	3.367	0.005	97	1347029	16.0	16.0	
15 N-Nitrosodimethylamine	42	3.816	3.800	0.016	94	1583570	16.0	15.4	
16 Pyridine	52	3.843	3.837	0.006	88	5042077	32.0	30.8	
36 Benzaldehyde	77	6.028	6.022	0.006	94	3894346	32.0	27.9	
37 Phenol	94	6.081	6.070	0.011	98	4094907	16.0	15.9	
38 Aniline	93	6.118	6.113	0.005	96	4700191	16.0	15.7	
40 Bis(2-chloroethyl)ether	93	6.156	6.150	0.006	95	3537087	16.0	16.4	
41 2-Chlorophenol	128	6.225	6.220	0.005	97	3344789	16.0	16.1	
43 n-Decane	57	6.236	6.231	0.005	89	3626286	16.0	15.3	
44 1,3-Dichlorobenzene	146	6.353	6.353	0.000	97	3725019	16.0	15.4	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	92	3776246	16.0	15.3	
46 Benzyl alcohol	108	6.514	6.503	0.011	94	2216727	16.0	16.4	
47 1,2-Dichlorobenzene	146	6.551	6.546	0.005	96	3622562	16.0	15.6	
49 2-Methylphenol	108	6.594	6.589	0.005	96	3129407	16.0	16.2	
50 2,2'-oxybis[1-chloropropan	45	6.610	6.610	0.000	92	4420708	16.0	14.5	
48 Indene	115	6.631	6.626	0.005	88	11289501	80.0	37.4	
56 4-Methylphenol	108	6.722	6.711	0.011	95	3240338	16.0	15.9	
55 N-Nitrosodi-n-propylamine	70	6.733	6.717	0.016	89	2366523	16.0	16.1	
53 Acetophenone	105	6.738	6.733	0.005	97	4439347	16.0	15.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	99	1496690	16.0	16.7	
61 Nitrobenzene	77	6.888	6.882	0.006	87	3438436	16.0	15.9	
63 Isophorone	82	7.085	7.075	0.010	97	5393934	16.0	15.0	
67 2-Nitrophenol	139	7.155	7.149	0.006	93	1926584	16.0	16.4	
68 2,4-Dimethylphenol	107	7.165	7.160	0.005	94	3310993	16.0	16.1	
71 Bis(2-chloroethoxy)methane	93	7.240	7.235	0.005	98	3739705	16.0	15.4	
72 Benzoic acid	105	7.342	7.256	0.086	87	9578784	80.0	94.1	Ma
74 2,4-Dichlorophenol	162	7.358	7.352	0.006	92	2843869	16.0	16.0	
75 1,2,4-Trichlorobenzene	180	7.433	7.427	0.006	95	3007849	16.0	15.9	
76 Naphthalene	128	7.507	7.502	0.005	96	7078354	16.0	12.1	
78 4-Chloroaniline	127	7.534	7.529	0.005	94	3687204	16.0	15.2	
79 2,6-Dichlorophenol	162	7.545	7.539	0.006	99	2790871	16.0	16.6	
81 Hexachlorobutadiene	225	7.598	7.593	0.005	98	1577528	16.0	16.5	
84 Caprolactam	113	7.871	7.823	0.048	81	1818723	32.0	33.0	a
87 4-Chloro-3-methylphenol	107	7.929	7.919	0.010	95	2725632	16.0	15.9	
89 2-Methylnaphthalene	142	8.079	8.079	0.000	90	5588091	16.0	13.6	
91 1-Methylnaphthalene	142	8.170	8.165	0.006	90	5357208	16.0	13.7	
93 Hexachlorocyclopentadiene	237	8.213	8.213	0.000	95	1702983	16.0	16.1	
92 1,2,4,5-Tetrachlorobenzene	216	8.223	8.223	0.000	97	2661536	16.0	15.6	
94 2,4,6-Trichlorophenol	196	8.309	8.309	0.000	92	1886064	16.0	16.2	
95 2,4,5-Trichlorophenol	196	8.346	8.341	0.005	95	1981684	16.0	16.2	
97 1,1'-Biphenyl	154	8.464	8.458	0.006	92	6028659	16.0	12.9	
98 2-Chloronaphthalene	162	8.496	8.490	0.006	96	5184434	16.0	14.0	
100 2-Nitroaniline	65	8.565	8.560	0.005	88	1755693	16.0	16.1	
104 Dimethyl phthalate	163	8.699	8.688	0.011	97	5545803	16.0	14.0	
105 1,3-Dinitrobenzene	168	8.736	8.725	0.011	88	1180085	16.0	16.5	
106 2,6-Dinitrotoluene	165	8.757	8.747	0.010	94	1531970	16.0	15.6	
107 Acenaphthylene	152	8.848	8.843	0.005	93	6463461	16.0	12.8	
108 3-Nitroaniline	138	8.912	8.902	0.010	97	1775523	16.0	16.0	
110 2,4-Dinitrophenol	184	8.998	8.987	0.011	84	1788314	32.0	34.5	
109 Acenaphthene	153	8.993	8.987	0.006	91	5122300	16.0	13.5	
111 4-Nitrophenol	109	9.035	9.019	0.016	87	1661547	32.0	34.0	
113 2,4-Dinitrotoluene	165	9.099	9.089	0.010	96	2048387	16.0	16.2	
114 Dibenzofuran	168	9.137	9.131	0.006	90	6237089	16.0	12.7	
117 2,3,4,6-Tetrachlorophenol	232	9.233	9.228	0.005	74	1395730	16.0	17.3	
120 Hexadecane	57	9.265	9.260	0.005	95	3761979	16.0	14.5	
119 Diethyl phthalate	149	9.276	9.265	0.011	96	5506347	16.0	14.1	
122 4-Chlorophenyl phenyl ethe	204	9.399	9.393	0.006	93	2934564	16.0	15.4	
125 4-Nitroaniline	138	9.431	9.415	0.016	92	1835065	16.0	15.5	
123 Fluorene	166	9.425	9.420	0.005	92	5585751	16.0	13.7	
126 4,6-Dinitro-2-methylphenol	198	9.452	9.436	0.016	87	2095601	32.0	33.9	
129 N-Nitrosodiphenylamine	169	9.495	9.489	0.006	66	4365498	16.0	15.2	
128 Diphenylamine	169	9.495	9.489	0.006	91	4365498	13.7	13.0	
130 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	1	5309475	16.0	13.4	a
131 Azobenzene	77	9.532	9.527	0.005	92	5309475	16.0	13.7	
137 4-Bromophenyl phenyl ether	248	9.810	9.805	0.005	66	1657118	16.0	16.5	
138 Hexachlorobenzene	284	9.895	9.890	0.005	93	1664990	16.0	16.1	
141 Atrazine	200	9.917	9.906	0.011	94	2493433	32.0	28.9	
146 n-Octadecane	57	10.029	10.024	0.005	98	3683268	16.0	15.0	
143 Pentachlorophenol	266	10.050	10.045	0.005	91	1902288	32.0	41.2	
149 Phenanthrene	178	10.237	10.232	0.005	92	6529042	16.0	12.4	
150 Anthracene	178	10.280	10.275	0.005	92	6505153	16.0	12.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.398	10.392	0.006	94	6064802	16.0	13.0	
154 Di-n-butyl phthalate	149	10.622	10.622	0.000	98	6626369	16.0	12.1	
161 Fluoranthene	202	11.252	11.247	0.005	93	6600765	16.0	13.2	
164 Benzidine	184	11.338	11.332	0.006	97	5991022	32.0	25.7	
165 Pyrene	202	11.471	11.466	0.005	87	6741273	16.0	13.1	
172 Butyl benzyl phthalate	149	12.043	12.038	0.005	98	4166934	16.0	15.9	
180 Bis(2-ethylhexyl) phthalat	149	12.721	12.716	0.005	97	5623712	16.0	15.4	
177 3,3'-Dichlorobenzidine	252	12.759	12.743	0.016	74	4920573	32.0	32.0	
179 Benzo[a]anthracene	228	12.823	12.812	0.011	99	7081435	16.0	15.0	
181 Chrysene	228	12.876	12.866	0.010	94	6547570	16.0	14.6	
184 Di-n-octyl phthalate	149	13.635	13.630	0.005	99	8771210	16.0	14.9	
186 Benzo[b]fluoranthene	252	14.383	14.367	0.016	98	7140181	16.0	16.7	
187 Benzo[k]fluoranthene	252	14.426	14.410	0.016	96	6797700	16.0	15.7	
189 Benzo[a]pyrene	252	14.901	14.885	0.016	80	6698834	16.0	16.0	
193 Indeno[1,2,3-cd]pyrene	276	16.723	16.696	0.027	97	8213192	16.0	17.0	
194 Dibenz(a,h)anthracene	278	16.739	16.712	0.027	93	6833917	16.0	16.7	
195 Benzo[g,h,i]perylene	276	17.225	17.188	0.037	94	6769269	16.0	16.4	
S 258 3-Methylphenol	1				0			15.9	
S 262 Total Cresols	1				0			32.1	
S 257 3 & 4 Methylphenol	108				0			15.9	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00314

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00144

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180417-70726.b\\W3485.D

Injection Date: 17-Apr-2018 21:02:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: IC L1 16.0

Worklist Smp#: 10

Client ID:

Injection Vol: 2.0 ul

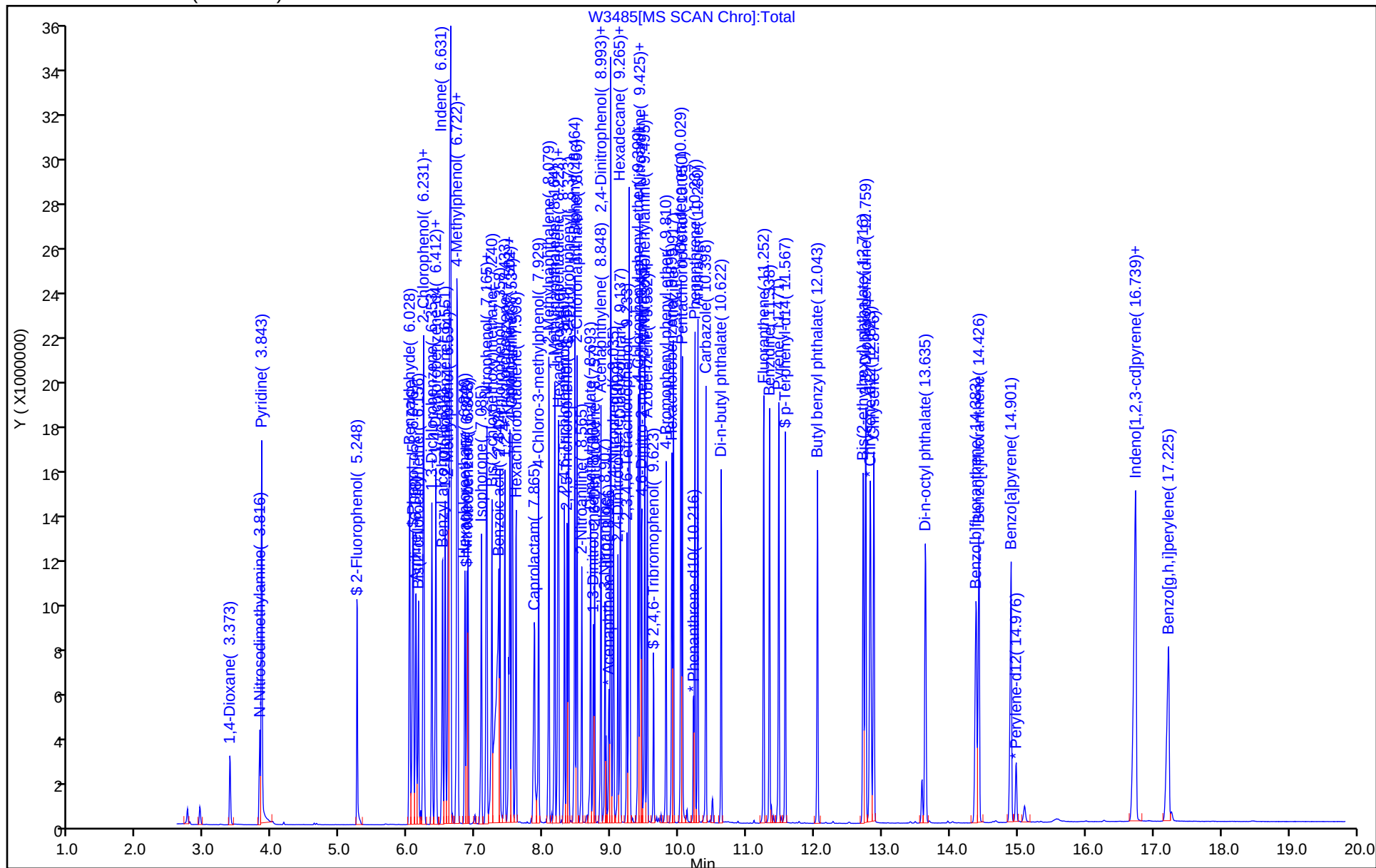
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 403125

SDG No.: 480-134358-1

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2018 15:21 Calibration End Date: 03/08/2018 18:44 Calibration ID: 32991

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-403125/5	Y016355.D
Level 2	IC 480-403125/6	Y016356.D
Level 3	IC 480-403125/7	Y016357.D
Level 4	IC 480-403125/8	Y016358.D
Level 5	ICIS 480-403125/9	Y016359.D
Level 6	IC 480-403125/10	Y016360.D
Level 7	IC 480-403125/11	Y016361.D
Level 8	IC 480-403125/12	Y016362.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 5		B	M1	M2								
Naphthalene	1.1020 1.0889	1.0383 1.0956	1.0370 1.0680	1.0543	1.0843	Ave		1.0710			0.7000	2.4		20.0			
2-Methylnaphthalene	0.7043 0.7520	0.6964 0.7670	0.6865 0.7533	0.7086	0.7266	Ave		0.7243			0.4000	4.1		20.0			
1-Methylnaphthalene	0.6562 0.7144	0.6577 0.7311	0.6621 0.7207	0.6946	0.7098	Ave		0.6933			0.0100	4.4		20.0			
Acenaphthylene	1.5728 1.8271	1.6025 1.8666	1.6397 1.7959	1.7530	1.8202	Ave		1.7347			0.9000	6.5		20.0			
Acenaphthene	1.2694 1.3640	1.2453 1.4120	1.2528 1.3806	1.3147	1.3634	Ave		1.3253			0.9000	4.8		20.0			
Dibenzofuran	1.7743	1.6555 1.8200	1.6723 1.7575	1.7721	1.7656	Ave		1.7453			0.8000	3.4		20.0			
Fluorene	1.3596 1.5262	1.3535 1.5787	1.3438 1.5214	1.4408	1.4963	Ave		1.4525			0.9000	6.3		20.0			
Phenanthrene	1.1596 1.1794	1.1025 1.1498	1.0813 1.1152	1.1405	1.1430	Ave		1.1339			0.7000	2.8		20.0			
Anthracene	1.0723 1.1834	1.0274 1.1860	1.0691 1.1272	1.1593	1.1736	Ave		1.1248			0.7000	5.4		20.0			
Fluoranthene	1.1086 1.2508	1.0884 1.2477	1.1238 1.2178	1.2172	1.2306	Ave		1.1856			0.6000	5.6		20.0			
Pyrene	1.2864 1.3862	1.2474 1.3923	1.2748 1.2930	1.3428	1.4069	Ave		1.3287			0.6000	4.6		20.0			
Benzo(a)anthracene	1.2934 1.2992	1.2189 1.2962	1.1655 1.2467	1.2472	1.2750	Ave		1.2553			0.8000	3.7		20.0			
Chrysene	1.2109 1.2265	1.1776 1.2114	1.1446 1.1544	1.1778	1.2157	Ave		1.1899			0.7000	2.6		20.0			
Benzo(b)fluoranthene	1.0689 1.2537	1.0651 1.3164	1.1236 1.3108	1.1696	1.2255	Lin2	-0.027	1.2390			0.7000	5.7			0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 403125
SDG No.: 480-134358-1
Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/08/2018 15:21 Calibration End Date: 03/08/2018 18:44 Calibration ID: 32991

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 5		B	M1	M2								
Benzo(k)fluoranthene	1.1385 1.2702	1.1369 1.3491	1.1741 1.3227	1.2283	1.3033	Lin2	-0.022	1.2795			0.7000	4.6			0.9980		0.9900
Benzo(a)pyrene	0.9400 1.2052	0.9653 1.2301	1.0351 1.2293	1.1083	1.1575	Lin2	-0.034	1.1693			0.7000	5.8			0.9960		0.9900
Indeno(1,2,3-cd)pyrene	1.0645 1.3403	1.0771 1.4218	1.1925 1.4494	1.2669	1.3019	Lin2	-0.042	1.3376			0.5000	6.6			0.9950		0.9900
Dibenz(a,h)anthracene	0.8912 1.1259	0.9127 1.1856	0.9683 1.2075	1.0405	1.0750	Lin2	-0.033	1.1089			0.4000	7.2			0.9940		0.9900
Benzo(g,h,i)perylene	0.8747 1.1222	0.9510 1.1646	0.9847 1.1807	1.0545	1.0835	Lin2	-0.033	1.1093			0.5000	5.3			0.9970		0.9900
Nitrobenzene-d5	0.3869	0.3527 0.3952	0.3607 0.3929	0.3791	0.3820	Ave		0.3785			0.0100	4.3	20.0				
2-Fluorobiphenyl	1.5402	1.4446 1.5747	1.4280 1.5134	1.5070	1.5205	Ave		1.5041			0.0100	3.4	20.0				
p-Terphenyl-d14	0.8972	0.7948 0.9230	0.7890 0.8892	0.8521	0.8833	Ave		0.8612			0.0100	6.0	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 403125

SDG No.: 480-134358-1

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2018 15:21 Calibration End Date: 03/08/2018 18:44 Calibration ID: 32991

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-403125/5	Y016355.D
Level 2	IC 480-403125/6	Y016356.D
Level 3	IC 480-403125/7	Y016357.D
Level 4	IC 480-403125/8	Y016358.D
Level 5	ICIS 480-403125/9	Y016359.D
Level 6	IC 480-403125/10	Y016360.D
Level 7	IC 480-403125/11	Y016361.D
Level 8	IC 480-403125/12	Y016362.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Naphthalene	NPT	Ave	52193 3511350	96703 5480555	387691 7285905	818718	1701469	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	33356 2425020	64859 3836898	256666 5139261	550261	1140187	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	31079 2303583	61254 3657138	247524 4916516	539367	1113842	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acenaphthylene	ANT	Ave	41140 3254897	82340 5122928	338259 6827612	744034	1555335	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acenaphthene	ANT	Ave	33204 2429922	63984 3875244	258440 5248743	557998	1165026	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenzofuran	ANT	Ave	3160923 4994905	85062 4332540	344982 5784192	752167	1508658	8.00 12.0	0.250 12.0	1.00 16.0	2.00	4.00
Fluorene	ANT	Ave	35565 2718885	69543 4332540	277224 5784192	611535	1278566	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Phenanthrene	PHN	Ave	55750 3877265	104686 5878821	409434 7666781	888194	1819538	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Anthracene	PHN	Ave	51555 3890434	97558 6063993	404834 7749860	902826	1868211	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Fluoranthene	PHN	Ave	53297 4112052	103348 6379520	425550 8372130	947870	1959014	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Pyrene	CRY	Ave	54793 4114261	103243 6591560	434493 8535547	942203	1973386	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo (a) anthracene	CRY	Ave	55092 3855933	100888 6136793	397241 8230469	875112	1788329	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Chrysene	CRY	Ave	51577 3640239	97471 5735188	390112 7621087	826406	1705157	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo (b) fluoranthene	PRY	Lin2	43626 3507564	84582 5799132	351983 8002366	763731	1601527	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo (k) fluoranthene	PRY	Lin2	46465 3553964	90283 5943075	367820 8075034	802069	1703166	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1 Analy Batch No.: 403125
SDG No.: 480-134358-1
Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/08/2018 15:21 Calibration End Date: 03/08/2018 18:44 Calibration ID: 32991

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzo(a)pyrene	PRY	Lin2	38362 3371962	76658 5419089	324267 7505165	723729	1512569	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Indeno(1,2,3-cd)pyrene	PRY	Lin2	43443 3750032	85535 6263533	373584 8848467	827310	1701362	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Lin2	36371 3149963	72480 5222996	303330 7371533	679471	1404780	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo(g,h,i)perylene	PRY	Lin2	35700 3139872	75521 5130568	308483 7208436	688585	1415957	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Nitrobenzene-d5	NPT	Ave	1247693	32847 1976680	134856 2680648	294366	599441	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	2743905	74226 4321651	294586 5753607	639626	1299246	8.00	0.250 12.0	1.00 16.0	2.00	4.00
p-Terphenyl-d14	CRY	Ave	2662939	65782 4369949	268922 5869871	597887	1238985	8.00	0.250 12.0	1.00 16.0	2.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016355.D
 Lims ID: IC - List 1 0.125
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Mar-2018 15:21:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-005
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:28 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 08-Mar-2018 16:15:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.689	6.694	-0.005	95	409059	4.00	4.00	
* 2 Naphthalene-d8	136	7.784	7.784	0.000	99	1515643	4.00	4.00	
* 3 Acenaphthene-d10	164	9.275	9.275	0.000	96	837045	4.00	4.00	
* 4 Phenanthrene-d10	188	10.541	10.541	0.000	97	1538453	4.00	4.00	
* 5 Chrysene-d12	240	13.367	13.367	0.000	99	1363005	4.00	4.00	
* 6 Perylene-d12	264	15.669	15.669	0.000	98	1306000	4.00	4.00	
74 Naphthalene	128	7.800	7.806	-0.006	98	52193	0.1250	0.1286	
87 2-Methylnaphthalene	142	8.383	8.383	0.000	94	33356	0.1250	0.1215	
89 1-Methylnaphthalene	142	8.474	8.473	0.001	94	31079	0.1250	0.1183	
108 Acenaphthylene	152	9.163	9.163	0.001	98	41140	0.1250	0.1133	
110 Acenaphthene	153	9.307	9.307	0.000	95	33204	0.1250	0.1197	
124 Fluorene	166	9.740	9.739	0.001	93	35565	0.1250	0.1170	
151 Phenanthrene	178	10.562	10.562	0.000	94	55750	0.1250	0.1278	
152 Anthracene	178	10.605	10.605	0.000	96	51555	0.1250	0.1192	
164 Fluoranthene	202	11.631	11.631	0.000	97	53297	0.1250	0.1169	
167 Pyrene	202	11.876	11.876	0.000	98	54793	0.1250	0.1210	
180 Benzo[a]anthracene	228	13.351	13.351	0.000	98	55092	0.1250	0.1288	
182 Chrysene	228	13.404	13.409	-0.005	96	51577	0.1250	0.1272	
186 Benzo[b]fluoranthene	252	15.028	15.028	0.000	97	43626	0.1250	0.1296	
187 Benzo[k]fluoranthene	252	15.071	15.071	0.000	98	46465	0.1250	0.1287	
189 Benzo[a]pyrene	252	15.573	15.578	-0.005	78	38362	0.1250	0.1300	
193 Indeno[1,2,3-cd]pyrene	276	17.635	17.640	-0.005	91	43443	0.1250	0.1307	
194 Dibenz(a,h)anthracene	278	17.646	17.651	-0.005	86	36371	0.1250	0.1303	
195 Benzo[g,h,i]perylene	276	18.223	18.228	-0.005	96	35700	0.1250	0.1280	

Reagents:

MB_L1LVI_WRK_00298 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00143 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016355.D

Injection Date: 08-Mar-2018 15:21:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: IC - List 1 0.125

Worklist Smp#: 5

Client ID:

Injection Vol: 2.0 ul

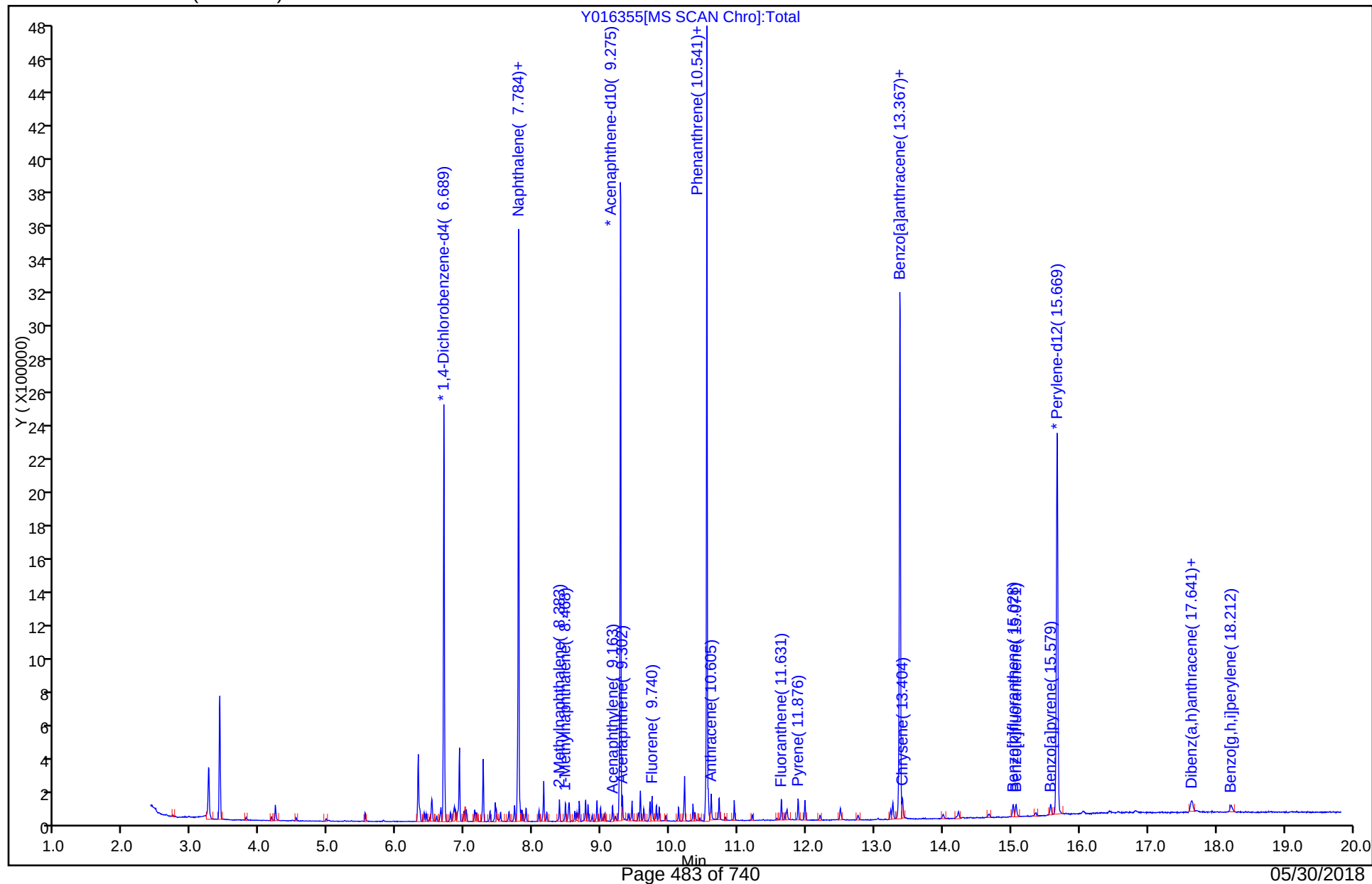
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016356.D
 Lims ID: IC - List 1 0.25
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Mar-2018 15:49:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-006
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:31 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 09-Mar-2018 06:57:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.690	6.694	-0.004	95	400283	4.00	4.00	
* 2 Naphthalene-d8	136	7.785	7.784	0.001	99	1490186	4.00	4.00	
* 3 Acenaphthene-d10	164	9.275	9.275	0.000	95	822095	4.00	4.00	
* 4 Phenanthrene-d10	188	10.541	10.541	0.000	97	1519277	4.00	4.00	
* 5 Chrysene-d12	240	13.367	13.367	0.000	99	1324307	4.00	4.00	
* 6 Perylene-d12	264	15.670	15.669	0.001	98	1270580	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.541	5.541	0.000	93	26640	0.2500	0.2312	
\$ 8 Phenol-d5	99	6.332	6.331	0.001	98	31980	0.2500	0.2237	
\$ 9 Nitrobenzene-d5	82	7.155	7.159	-0.004	90	32847	0.2500	0.2329	
\$ 10 2-Fluorobiphenyl	172	8.672	8.671	0.001	99	74226	0.2500	0.2401	
\$ 11 2,4,6-Tribromophenol	330	9.938	9.942	-0.004	92	6308	0.2500	0.2586	
\$ 12 p-Terphenyl-d14	244	11.973	11.978	-0.005	100	65782	0.2500	0.2307	
13 1,4-Dioxane	88	3.794	3.788	0.006	96	11945	0.2500	0.2522	
14 N-Nitrosodimethylamine	42	4.168	4.162	0.006	89	17031	0.2500	0.2523	
15 Pyridine	52	4.222	4.210	0.012	95	42093	0.5000	0.4761	
35 Benzaldehyde	77	6.316	6.315	0.001	96	49717	0.5000	0.4859	
37 Phenol	94	6.343	6.342	0.001	98	35413	0.2500	0.2320	
36 Aniline	93	6.401	6.401	0.000	98	40318	0.2500	0.2290	
39 Bis(2-chloroethyl)ether	93	6.433	6.433	0.000	93	29537	0.2500	0.2362	
40 2-Chlorophenol	128	6.508	6.513	-0.005	96	29718	0.2500	0.2246	
41 n-Decane	57	6.519	6.518	0.001	94	31370	0.2500	0.2359	
43 1,3-Dichlorobenzene	146	6.647	6.646	0.001	99	39131	0.2500	0.2436	
44 1,4-Dichlorobenzene	146	6.706	6.705	0.001	95	40592	0.2500	0.2467	
45 Benzyl alcohol	108	6.786	6.785	0.001	93	17492	0.2500	0.2190	
46 1,2-Dichlorobenzene	146	6.845	6.844	0.001	97	37334	0.2500	0.2395	
48 2-Methylphenol	108	6.861	6.865	-0.004	96	25524	0.2500	0.2188	
49 2,2'-oxybis[1-chloropropan	45	6.893	6.892	0.001	92	41876	0.2500	0.2431	
47 Indene	115	6.920	6.919	0.001	99	262694	1.25	1.18	
57 4-Methylphenol	108	6.984	6.988	-0.004	94	27591	0.2500	0.2257	
53 N-Nitrosodi-n-propylamine	70	7.005	7.004	0.001	88	19319	0.2500	0.2211	
52 Acetophenone	105	7.021	7.020	0.001	95	41113	0.2500	0.2378	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.139	7.143	-0.004	89	14343	0.2500	0.2373	
59 Nitrobenzene	77	7.176	7.175	0.001	89	30721	0.2500	0.2362	
62 Isophorone	82	7.363	7.368	-0.005	98	47780	0.2500	0.2225	
66 2,4-Dimethylphenol	107	7.443	7.442	0.001	87	27031	0.2500	0.2197	
64 2-Nitrophenol	139	7.448	7.448	0.000	74	13861	0.2500	0.2558	
69 Bis(2-chloroethoxy)methane	93	7.518	7.522	-0.004	98	33368	0.2500	0.2308	
70 Benzoic acid	105	7.464	7.533	-0.069	83	43080	1.25	2.61	
72 2,4-Dichlorophenol	162	7.641	7.645	-0.004	90	24952	0.2500	0.2564	
73 1,2,4-Trichlorobenzene	180	7.726	7.725	0.001	93	35329	0.2500	0.2506	
74 Naphthalene	128	7.801	7.806	-0.005	98	96703	0.2500	0.2424	
76 4-Chloroaniline	127	7.822	7.822	0.000	95	28956	0.2500	0.2092	
77 2,6-Dichlorophenol	162	7.833	7.838	-0.005	97	25412	0.2500	0.2180	
79 Hexachlorobutadiene	225	7.892	7.896	-0.004	94	19549	0.2500	0.2425	
84 Caprolactam	113	8.084	8.115	-0.031	79	14891	0.5000	0.4388	
85 4-Chloro-3-methylphenol	107	8.196	8.201	-0.005	94	19637	0.2500	0.2060	
87 2-Methylnaphthalene	142	8.383	8.383	0.000	92	64859	0.2500	0.2404	
89 1-Methylnaphthalene	142	8.469	8.473	-0.004	93	61254	0.2500	0.2372	
90 Hexachlorocyclopentadiene	237	8.517	8.516	0.001	96	17271	0.2500	0.2573	
91 1,2,4,5-Tetrachlorobenzene	216	8.527	8.527	0.000	95	34105	0.2500	0.2300	
93 2,4,6-Trichlorophenol	196	8.608	8.607	0.001	90	18506	0.2500	0.2569	
94 2,4,5-Trichlorophenol	196	8.640	8.644	-0.004	93	17524	0.2500	0.2554	
96 1,1'-Biphenyl	154	8.763	8.767	-0.004	96	75289	0.2500	0.2344	
97 2-Chloronaphthalene	162	8.800	8.799	0.001	95	61339	0.2500	0.2375	
100 2-Nitroaniline	65	8.859	8.863	-0.004	86	11921	0.2500	0.2565	
105 Dimethyl phthalate	163	8.982	8.986	-0.004	99	63060	0.2500	0.2297	
106 1,3-Dinitrobenzene	168	9.024	9.029	-0.005	83	6395	0.2500	0.2607	
107 2,6-Dinitrotoluene	165	9.046	9.050	-0.004	93	12415	0.2500	0.2550	
108 Acenaphthylene	152	9.158	9.163	-0.004	97	82340	0.2500	0.2310	
109 3-Nitroaniline	138	9.201	9.205	-0.004	96	11205	0.2500	0.2488	
111 2,4-Dinitrophenol	184	9.286	9.291	-0.005	59	5257	0.5000	1.33	
110 Acenaphthene	153	9.302	9.307	-0.005	95	63984	0.2500	0.2349	
112 4-Nitrophenol	109	9.307	9.307	0.000	89	6877	0.5000	0.5131	
114 2,4-Dinitrotoluene	165	9.393	9.398	-0.005	95	14654	0.2500	0.2565	
115 Dibenzofuran	168	9.446	9.446	0.000	97	85062	0.2500	0.2371	
118 2,3,4,6-Tetrachlorophenol	232	9.537	9.536	0.001	72	13305	0.2500	0.2591	
121 Hexadecane	57	9.564	9.563	0.001	93	33772	0.2500	0.2245	
120 Diethyl phthalate	149	9.569	9.574	-0.005	98	61565	0.2500	0.2290	
123 4-Chlorophenyl phenyl ethe	204	9.708	9.707	0.001	88	35885	0.2500	0.2409	
126 4-Nitroaniline	138	9.719	9.729	-0.010	85	11317	0.2500	0.2462	
124 Fluorene	166	9.735	9.739	-0.004	94	69543	0.2500	0.2330	
127 4,6-Dinitro-2-methylphenol	198	9.745	9.750	-0.005	90	9572	0.5000	1.13	
129 Diphenylamine	169	9.799	9.804	-0.005	94	46489	0.2138	0.1943	
130 N-Nitrosodiphenylamine	169	9.799	9.804	-0.005	99	46489	0.2500	0.2273	
131 1,2-Diphenylhydrazine	77	9.842	9.841	0.001	98	59124	0.2500	0.2265	
132 Azobenzene	77	9.842	9.841	0.001	99	59124	0.2500	0.2265	
139 4-Bromophenyl phenyl ether	248	10.125	10.129	-0.004	67	19554	0.2500	0.2257	
140 Hexachlorobenzene	284	10.216	10.215	0.001	80	20883	0.2500	0.2239	
143 Atrazine	200	10.216	10.220	-0.004	94	33725	0.5000	0.4236	
148 n-Octadecane	57	10.333	10.338	-0.005	93	31396	0.2500	0.2151	
145 Pentachlorophenol	266	10.365	10.364	0.001	92	12889	0.5000	0.6456	
151 Phenanthrene	178	10.557	10.562	-0.005	97	104686	0.2500	0.2431	
152 Anthracene	178	10.606	10.605	0.001	97	97558	0.2500	0.2284	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.718	10.717	0.001	96	83153	0.2500	-0.1178	M
157 Di-n-butyl phthalate	149	10.942	10.941	0.001	99	89804	0.2500	0.2153	
164 Fluoranthene	202	11.631	11.631	0.000	97	103348	0.2500	0.2295	
166 Benzidine	184	11.711	11.716	-0.005	99	68164	0.5000	0.4555	
167 Pyrene	202	11.877	11.876	0.001	97	103243	0.2500	0.2347	
174 Butyl benzyl phthalate	149	12.491	12.491	0.000	97	33453	0.2500	0.2568	
181 Bis(2-ethylhexyl) phthalat	149	13.234	13.233	0.001	96	40557	0.2500	0.2575	
179 3,3'-Dichlorobenzidine	252	13.261	13.265	-0.004	73	59304	0.5000	0.5354	
180 Benzo[a]anthracene	228	13.351	13.351	0.000	98	100888	0.2500	0.2428	
182 Chrysene	228	13.405	13.409	-0.004	96	97471	0.2500	0.2474	
184 Di-n-octyl phthalate	149	14.222	14.221	0.001	99	57264	0.2500	0.2594	
186 Benzo[b]fluoranthene	252	15.024	15.028	-0.004	96	84582	0.2500	0.2367	
187 Benzo[k]fluoranthene	252	15.066	15.071	-0.005	99	90283	0.2500	0.2396	
189 Benzo[a]pyrene	252	15.574	15.578	-0.004	78	76658	0.2500	0.2359	
193 Indeno[1,2,3-cd]pyrene	276	17.630	17.640	-0.010	95	85535	0.2500	0.2326	
194 Dibenz(a,h)anthracene	278	17.641	17.651	-0.010	89	72480	0.2500	0.2357	
195 Benzo[g,h,i]perylene	276	18.218	18.228	-0.010	96	75521	0.2500	0.2438	
S 261 Total Cresols	1				0			0.4446	
S 262 3 & 4 Methylphenol	108				0			0.2257	
S 263 3-Methylphenol	1				0			0.2257	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00299

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00143

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016356.D

Injection Date: 08-Mar-2018 15:49:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: IC - List 1 0.25

Worklist Smp#: 6

Client ID:

Injection Vol: 2.0 ul

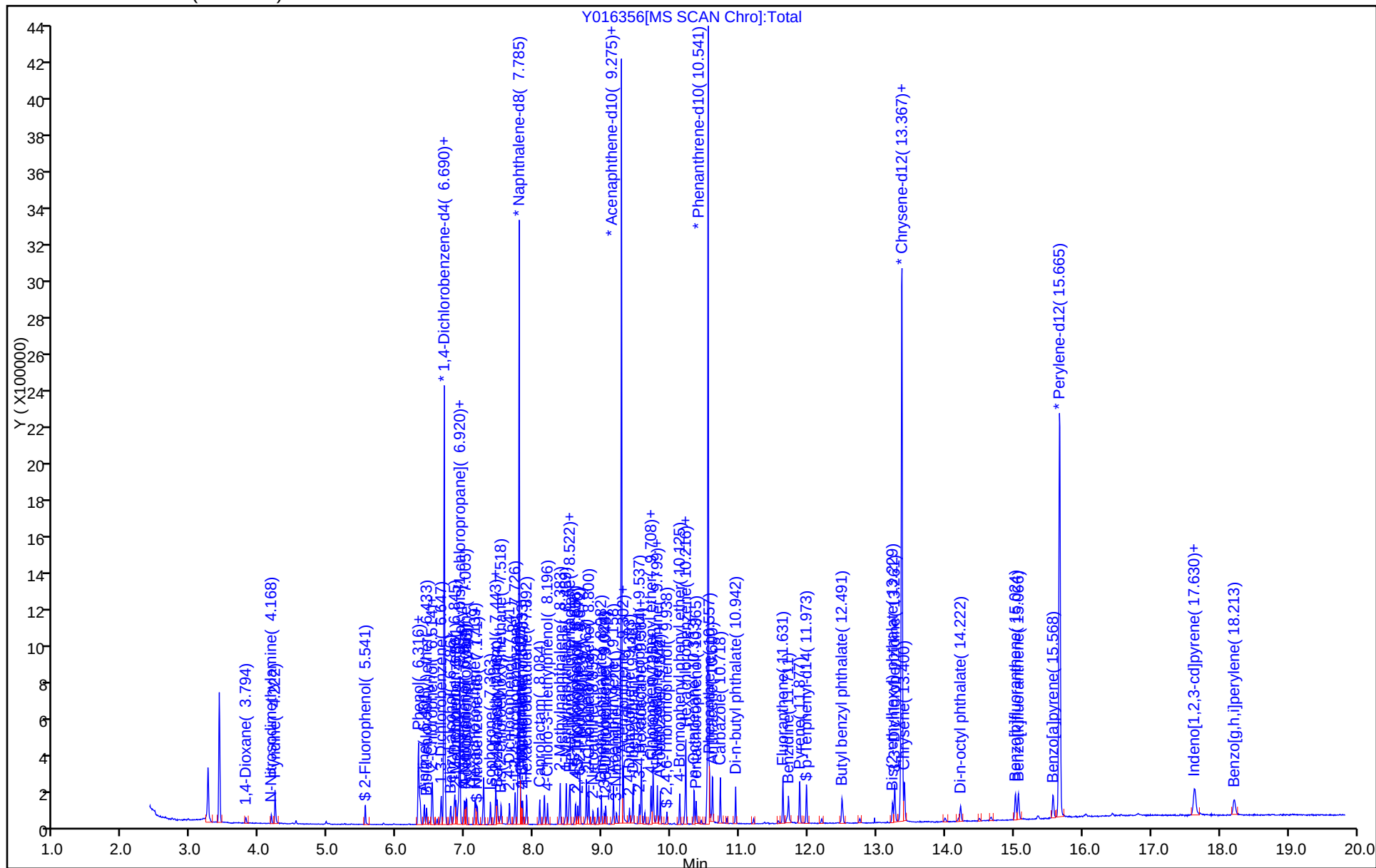
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016357.D
 Lims ID: IC - List 1 1.0
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Mar-2018 16:18:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-007
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:34 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 09-Mar-2018 07:03:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.692	6.694	-0.002	94	393209	4.00	4.00	
* 2 Naphthalene-d8	136	7.782	7.784	-0.002	99	1495452	4.00	4.00	
* 3 Acenaphthene-d10	164	9.277	9.275	0.002	95	825174	4.00	4.00	
* 4 Phenanthrene-d10	188	10.543	10.541	0.002	97	1514640	4.00	4.00	
* 5 Chrysene-d12	240	13.369	13.367	0.002	99	1363309	4.00	4.00	
* 6 Perylene-d12	264	15.667	15.669	-0.003	98	1253064	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.538	5.541	-0.003	93	106190	1.00	0.9383	
\$ 8 Phenol-d5	99	6.328	6.331	-0.003	97	129470	1.00	0.9218	
\$ 9 Nitrobenzene-d5	82	7.156	7.159	-0.003	89	134856	1.00	0.9530	
\$ 10 2-Fluorobiphenyl	172	8.674	8.671	0.003	99	294586	1.00	0.9494	
\$ 11 2,4,6-Tribromophenol	330	9.940	9.942	-0.002	93	29918	1.00	0.8887	
\$ 12 p-Terphenyl-d14	244	11.975	11.978	-0.003	100	268922	1.00	0.9162	
13 1,4-Dioxane	88	3.796	3.788	0.008	94	45284	1.00	0.9735	
14 N-Nitrosodimethylamine	42	4.165	4.162	0.003	88	66636	1.00	1.00	
15 Pyridine	52	4.218	4.210	0.008	95	164692	2.00	1.90	
35 Benzaldehyde	77	6.312	6.315	-0.003	96	203098	2.00	2.02	
37 Phenol	94	6.339	6.342	-0.003	98	141446	1.00	0.9434	
36 Aniline	93	6.403	6.401	0.002	98	163831	1.00	0.9471	
39 Bis(2-chloroethyl)ether	93	6.435	6.433	0.002	94	115326	1.00	0.9389	
40 2-Chlorophenol	128	6.510	6.513	-0.003	96	122497	1.00	0.9424	
41 n-Decane	57	6.521	6.518	0.003	91	123703	1.00	0.9469	
43 1,3-Dichlorobenzene	146	6.649	6.646	0.003	99	151817	1.00	0.9621	
44 1,4-Dichlorobenzene	146	6.708	6.705	0.003	97	155539	1.00	0.9623	
45 Benzyl alcohol	108	6.783	6.785	-0.002	92	71946	1.00	0.9169	
46 1,2-Dichlorobenzene	146	6.841	6.844	-0.003	97	147642	1.00	0.9643	
48 2-Methylphenol	108	6.863	6.865	-0.002	96	105539	1.00	0.9211	
49 2,2'-oxybis[1-chloropropan	45	6.895	6.892	0.003	92	162259	1.00	0.9589	
47 Indene	115	6.916	6.919	-0.003	98	1054668	5.00	4.82	
57 4-Methylphenol	108	6.986	6.988	-0.002	97	108451	1.00	0.9033	
53 N-Nitrosodi-n-propylamine	70	7.002	7.004	-0.002	91	80303	1.00	0.9356	
52 Acetophenone	105	7.018	7.020	-0.002	94	159039	1.00	0.9364	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.140	7.143	-0.003	90	56037	1.00	0.9436	
59 Nitrobenzene	77	7.173	7.175	-0.003	88	124259	1.00	0.9518	
62 Isophorone	82	7.365	7.368	-0.003	98	202684	1.00	0.9406	
66 2,4-Dimethylphenol	107	7.440	7.442	-0.002	91	112853	1.00	0.9141	
64 2-Nitrophenol	139	7.445	7.448	-0.003	92	64645	1.00	0.9301	
69 Bis(2-chloroethoxy)methane	93	7.520	7.522	-0.002	98	136641	1.00	0.9418	
70 Benzoic acid	105	7.488	7.533	-0.045	76	270314	5.00	5.14	
72 2,4-Dichlorophenol	162	7.643	7.645	-0.002	92	104518	1.00	0.9147	
73 1,2,4-Trichlorobenzene	180	7.728	7.725	0.003	93	132903	1.00	0.9395	
74 Naphthalene	128	7.803	7.806	-0.003	98	387691	1.00	0.9682	
76 4-Chloroaniline	127	7.819	7.822	-0.003	96	132311	1.00	0.9525	
77 2,6-Dichlorophenol	162	7.835	7.838	-0.003	98	107643	1.00	0.9203	
79 Hexachlorobutadiene	225	7.894	7.896	-0.002	96	75464	1.00	0.9326	
84 Caprolactam	113	8.091	8.115	-0.024	78	62305	2.00	1.83	
85 4-Chloro-3-methylphenol	107	8.198	8.201	-0.003	94	88659	1.00	0.9267	
87 2-Methylnaphthalene	142	8.380	8.383	-0.003	92	256666	1.00	0.9478	
89 1-Methylnaphthalene	142	8.471	8.473	-0.002	93	247524	1.00	0.9550	
90 Hexachlorocyclopentadiene	237	8.513	8.516	-0.003	95	78223	1.00	0.9138	
91 1,2,4,5-Tetrachlorobenzene	216	8.524	8.527	-0.003	96	140496	1.00	0.9438	
93 2,4,6-Trichlorophenol	196	8.604	8.607	-0.003	91	78147	1.00	0.8946	
94 2,4,5-Trichlorophenol	196	8.642	8.644	-0.002	94	78348	1.00	0.9202	
96 1,1'-Biphenyl	154	8.764	8.767	-0.003	96	305412	1.00	0.9474	
97 2-Chloronaphthalene	162	8.802	8.799	0.003	95	243167	1.00	0.9379	
100 2-Nitroaniline	65	8.861	8.863	-0.002	87	53548	1.00	0.8964	
105 Dimethyl phthalate	163	8.983	8.986	-0.003	99	258998	1.00	0.9400	
106 1,3-Dinitrobenzene	168	9.026	9.029	-0.003	86	32569	1.00	0.8534	
107 2,6-Dinitrotoluene	165	9.048	9.050	-0.002	96	57868	1.00	0.9279	
108 Acenaphthylene	152	9.160	9.163	-0.002	98	338259	1.00	0.9452	
109 3-Nitroaniline	138	9.203	9.205	-0.002	94	44760	1.00	0.99	
111 2,4-Dinitrophenol	184	9.288	9.291	-0.003	84	39196	2.00	2.11	
112 4-Nitrophenol	109	9.304	9.307	-0.003	47	52566	2.00	1.81	a
110 Acenaphthene	153	9.304	9.307	-0.003	95	258440	1.00	0.9453	
114 2,4-Dinitrotoluene	165	9.395	9.398	-0.003	94	69197	1.00	0.8969	
115 Dibenzofuran	168	9.443	9.446	-0.003	97	344982	1.00	0.9581	
118 2,3,4,6-Tetrachlorophenol	232	9.539	9.536	0.003	70	60518	1.00	0.8766	
121 Hexadecane	57	9.566	9.563	0.003	94	138801	1.00	0.9190	
120 Diethyl phthalate	149	9.571	9.574	-0.003	98	249764	1.00	0.9257	
123 4-Chlorophenyl phenyl ethe	204	9.705	9.707	-0.002	92	139250	1.00	0.9313	
126 4-Nitroaniline	138	9.721	9.729	-0.008	85	56922	1.00	1.02	
124 Fluorene	166	9.737	9.739	-0.002	93	277224	1.00	0.9252	
127 4,6-Dinitro-2-methylphenol	198	9.747	9.750	-0.003	91	58928	2.00	2.07	
130 N-Nitrosodiphenylamine	169	9.801	9.804	-0.003	99	191072	1.00	0.9369	
129 Diphenylamine	169	9.801	9.804	-0.003	93	191072	0.8550	0.8011	
132 Azobenzene	77	9.844	9.841	0.003	99	250459	1.00	0.9626	
131 1,2-Diphenylhydrazine	77	9.844	9.841	0.003	96	250459	1.00	0.9626	
139 4-Bromophenyl phenyl ether	248	10.127	10.129	-0.002	65	80643	1.00	0.9338	
140 Hexachlorobenzene	284	10.218	10.215	0.003	76	83206	1.00	0.8950	
143 Atrazine	200	10.212	10.220	-0.008	94	150320	2.00	1.88	
148 n-Octadecane	57	10.335	10.338	-0.003	93	130725	1.00	0.8983	
145 Pentachlorophenol	266	10.367	10.364	0.003	93	73770	2.00	1.68	
151 Phenanthrene	178	10.559	10.562	-0.003	97	409434	1.00	0.9536	
152 Anthracene	178	10.602	10.605	-0.003	97	404834	1.00	0.9505	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.720	10.717	0.003	96	341520	1.00	0.9673	M
157 Di-n-butyl phthalate	149	10.939	10.941	-0.002	100	381836	1.00	0.9181	
164 Fluoranthene	202	11.633	11.631	0.002	97	425550	1.00	0.9479	
166 Benzidine	184	11.713	11.716	-0.003	99	285792	2.00	1.86	
167 Pyrene	202	11.874	11.876	-0.002	97	434493	1.00	0.9594	
174 Butyl benzyl phthalate	149	12.493	12.491	0.002	96	154481	1.00	0.9114	
181 Bis(2-ethylhexyl) phthalat	149	13.230	13.233	-0.003	96	207712	1.00	0.8839	
179 3,3'-Dichlorobenzidine	252	13.263	13.265	-0.002	73	237136	2.00	2.08	
180 Benzo[a]anthracene	228	13.348	13.351	-0.003	99	397241	1.00	0.9285	
182 Chrysene	228	13.401	13.409	-0.008	96	390112	1.00	0.9620	
184 Di-n-octyl phthalate	149	14.224	14.221	0.003	99	315538	1.00	0.8656	
186 Benzo[b]fluoranthene	252	15.020	15.028	-0.008	97	351983	1.00	0.9286	
187 Benzo[k]fluoranthene	252	15.068	15.071	-0.003	99	367820	1.00	0.9351	
189 Benzo[a]pyrene	252	15.570	15.578	-0.008	77	324267	1.00	0.9147	
193 Indeno[1,2,3-cd]pyrene	276	17.627	17.640	-0.013	98	373584	1.00	0.9228	
194 Dibenz(a,h)anthracene	278	17.643	17.651	-0.008	93	303330	1.00	0.9031	
195 Benzo[g,h,i]perylene	276	18.215	18.228	-0.013	96	308483	1.00	0.9172	
S 262 3 & 4 Methylphenol	108				0			0.9033	
S 263 3-Methylphenol	1				0			0.9033	
S 261 Total Cresols	1				0			1.82	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00300

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00143

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 09-Mar-2018 08:09:36

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973Y\\20180308-69765.b\\Y016357.D

Injection Date: 08-Mar-2018 16:18:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: IC - List 1 1.0

Worklist Smp#: 7

Client ID:

Injection Vol: 2.0 ul

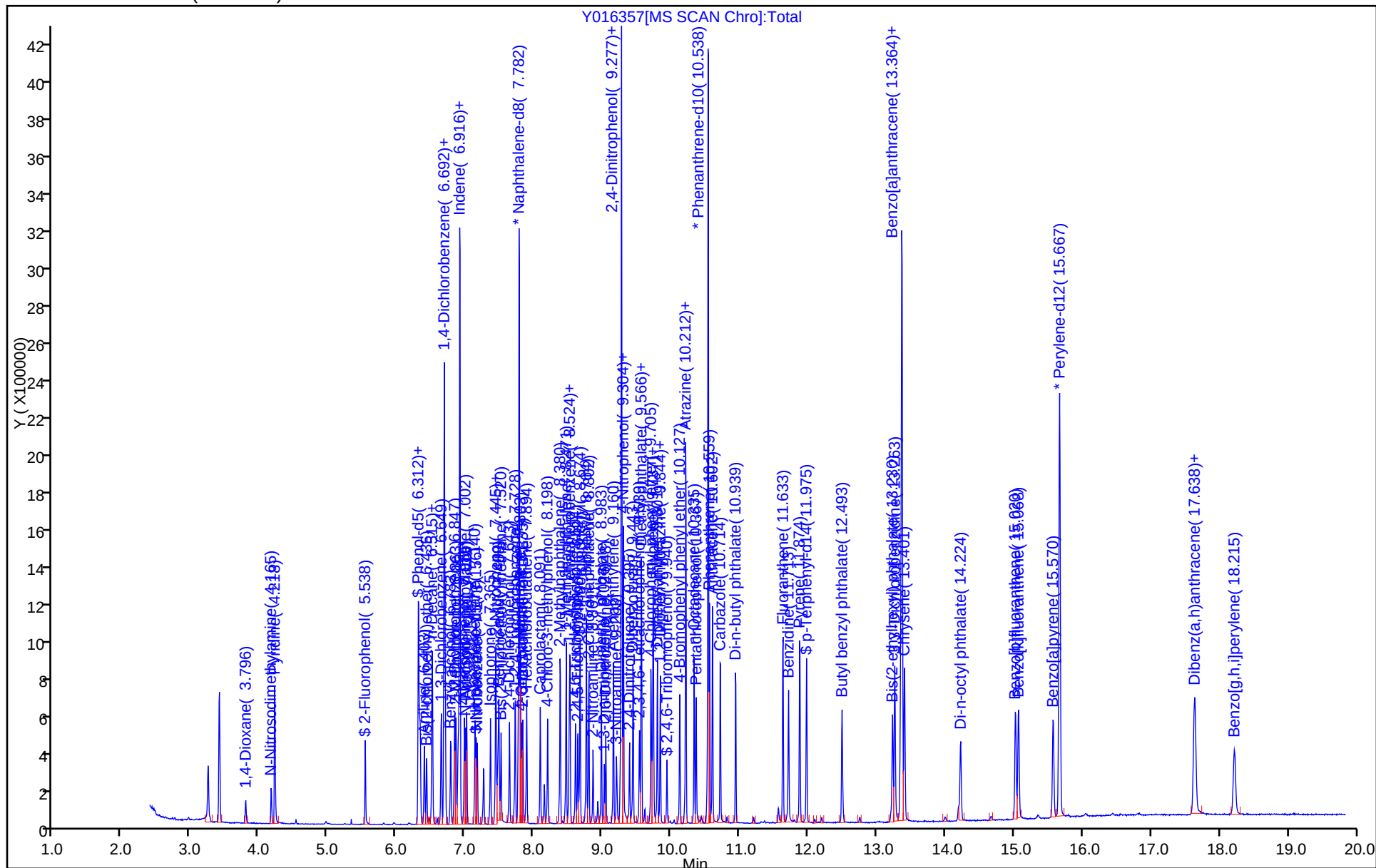
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016358.D
 Lims ID: IC - List 1 2.0
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Mar-2018 16:47:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-008
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:38 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 09-Mar-2018 07:03:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.694	6.694	0.000	95	409427	4.00	4.00	
* 2 Naphthalene-d8	136	7.784	7.784	0.000	99	1553136	4.00	4.00	
* 3 Acenaphthene-d10	164	9.274	9.275	-0.001	96	848887	4.00	4.00	
* 4 Phenanthrene-d10	188	10.540	10.541	-0.001	97	1557520	4.00	4.00	
* 5 Chrysene-d12	240	13.366	13.367	-0.001	99	1403290	4.00	4.00	
* 6 Perylene-d12	264	15.669	15.669	0.000	98	1306003	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.540	5.541	-0.001	92	237660	2.00	2.02	
\$ 8 Phenol-d5	99	6.330	6.331	-0.001	98	293126	2.00	2.00	
\$ 9 Nitrobenzene-d5	82	7.159	7.159	-0.001	90	294366	2.00	2.00	
\$ 10 2-Fluorobiphenyl	172	8.670	8.671	-0.001	99	639626	2.00	2.00	
\$ 11 2,4,6-Tribromophenol	330	9.942	9.942	0.000	94	69544	2.00	1.89	
\$ 12 p-Terphenyl-d14	244	11.977	11.978	-0.001	100	597887	2.00	1.98	
13 1,4-Dioxane	88	3.793	3.788	0.005	96	97608	2.00	2.02	
14 N-Nitrosodimethylamine	42	4.167	4.162	0.005	88	141208	2.00	2.04	
15 Pyridine	52	4.215	4.210	0.005	95	353060	4.00	3.90	
35 Benzaldehyde	77	6.314	6.315	-0.001	96	438206	4.00	4.19	
37 Phenol	94	6.341	6.342	-0.001	98	310476	2.00	1.99	
36 Aniline	93	6.400	6.401	-0.001	97	348723	2.00	1.94	
39 Bis(2-chloroethyl)ether	93	6.437	6.433	0.004	95	264377	2.00	2.07	
40 2-Chlorophenol	128	6.512	6.513	-0.001	96	265595	2.00	1.96	
41 n-Decane	57	6.517	6.518	-0.001	91	265590	2.00	1.95	
43 1,3-Dichlorobenzene	146	6.646	6.646	0.000	99	333570	2.00	2.03	
44 1,4-Dichlorobenzene	146	6.704	6.705	-0.001	95	332959	2.00	1.98	
45 Benzyl alcohol	108	6.785	6.785	0.000	92	161416	2.00	1.98	
46 1,2-Dichlorobenzene	146	6.843	6.844	-0.001	98	315293	2.00	1.98	
48 2-Methylphenol	108	6.865	6.865	0.000	97	239322	2.00	2.01	
49 2,2'-oxybis[1-chloropropan	45	6.891	6.892	-0.001	92	353055	2.00	2.00	
47 Indene	115	6.918	6.919	-0.001	98	2368206	10.0	10.4	
57 4-Methylphenol	108	6.988	6.988	0.000	96	247032	2.00	1.98	
53 N-Nitrosodi-n-propylamine	70	7.004	7.004	0.000	92	176097	2.00	1.97	
52 Acetophenone	105	7.020	7.020	0.000	96	352639	2.00	1.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.142	7.143	-0.001	90	122037	2.00	1.97	
59 Nitrobenzene	77	7.175	7.175	0.000	88	269722	2.00	1.99	
62 Isophorone	82	7.367	7.368	-0.001	98	449510	2.00	2.01	
66 2,4-Dimethylphenol	107	7.442	7.442	0.000	93	255835	2.00	2.00	
64 2-Nitrophenol	139	7.447	7.448	-0.001	94	141766	2.00	1.89	
69 Bis(2-chloroethoxy)methane	93	7.522	7.522	0.000	98	299281	2.00	1.99	
70 Benzoic acid	105	7.511	7.533	-0.022	76	698043	10.0	9.61	
72 2,4-Dichlorophenol	162	7.645	7.645	0.000	91	233695	2.00	1.91	
73 1,2,4-Trichlorobenzene	180	7.725	7.725	0.000	93	291848	2.00	1.99	
74 Naphthalene	128	7.805	7.806	-0.001	99	818718	2.00	1.97	
76 4-Chloroaniline	127	7.821	7.822	-0.001	96	284733	2.00	1.97	
77 2,6-Dichlorophenol	162	7.837	7.838	-0.001	97	238687	2.00	1.96	
79 Hexachlorobutadiene	225	7.896	7.896	0.000	95	165824	2.00	1.97	
84 Caprolactam	113	8.104	8.115	-0.011	78	136958	4.00	3.87	
85 4-Chloro-3-methylphenol	107	8.200	8.201	-0.001	94	198474	2.00	2.00	
87 2-Methylnaphthalene	142	8.382	8.383	-0.001	91	550261	2.00	1.96	
89 1-Methylnaphthalene	142	8.473	8.473	0.000	93	539367	2.00	2.00	
90 Hexachlorocyclopentadiene	237	8.515	8.516	-0.001	94	169901	2.00	1.85	
91 1,2,4,5-Tetrachlorobenzene	216	8.526	8.527	-0.001	96	306269	2.00	2.00	
93 2,4,6-Trichlorophenol	196	8.606	8.607	-0.001	91	182661	2.00	1.96	
94 2,4,5-Trichlorophenol	196	8.644	8.644	0.000	95	179066	2.00	1.97	
96 1,1'-Biphenyl	154	8.766	8.767	-0.001	96	659152	2.00	1.99	
97 2-Chloronaphthalene	162	8.799	8.799	0.000	95	531895	2.00	1.99	
100 2-Nitroaniline	65	8.863	8.863	0.000	88	126247	2.00	1.96	
105 Dimethyl phthalate	163	8.986	8.986	0.000	99	572212	2.00	2.02	
106 1,3-Dinitrobenzene	168	9.028	9.029	-0.001	90	79803	2.00	1.86	
107 2,6-Dinitrotoluene	165	9.050	9.050	0.000	95	130836	2.00	1.96	
108 Acenaphthylene	152	9.162	9.163	0.000	98	744034	2.00	2.02	
109 3-Nitroaniline	138	9.205	9.205	0.000	94	100724	2.00	2.17	
111 2,4-Dinitrophenol	184	9.290	9.291	-0.001	89	110168	4.00	3.67	
110 Acenaphthene	153	9.306	9.307	-0.001	95	557998	2.00	1.98	
112 4-Nitrophenol	109	9.306	9.307	-0.001	53	128026	4.00	3.84	
114 2,4-Dinitrotoluene	165	9.397	9.398	-0.001	95	165183	2.00	1.97	
115 Dibenzofuran	168	9.445	9.446	-0.001	97	752167	2.00	2.03	
118 2,3,4,6-Tetrachlorophenol	232	9.536	9.536	0.000	72	141821	2.00	1.89	
121 Hexadecane	57	9.562	9.563	-0.001	94	309133	2.00	1.99	
120 Diethyl phthalate	149	9.573	9.574	-0.001	98	554828	2.00	2.00	
123 4-Chlorophenyl phenyl ethe	204	9.707	9.707	0.000	90	302093	2.00	1.96	
126 4-Nitroaniline	138	9.723	9.729	-0.006	87	127899	2.00	2.16	
124 Fluorene	166	9.739	9.739	0.000	94	611535	2.00	1.98	
127 4,6-Dinitro-2-methylphenol	198	9.744	9.750	-0.006	93	155924	4.00	3.83	
129 Diphenylamine	169	9.803	9.804	-0.001	94	415458	1.71	1.69	
130 N-Nitrosodiphenylamine	169	9.803	9.804	-0.001	100	415458	2.00	1.98	
131 1,2-Diphenylhydrazine	77	9.846	9.841	0.005	96	546418	2.00	2.04	
132 Azobenzene	77	9.846	9.841	0.005	99	546418	2.00	2.04	
139 4-Bromophenyl phenyl ether	248	10.129	10.129	0.000	65	173044	2.00	1.95	
140 Hexachlorobenzene	284	10.214	10.215	-0.001	91	182442	2.00	1.91	
143 Atrazine	200	10.214	10.220	-0.006	94	335028	4.00	4.08	
148 n-Octadecane	57	10.337	10.338	-0.001	93	296258	2.00	1.98	
145 Pentachlorophenol	266	10.369	10.364	0.005	93	189515	4.00	3.57	
151 Phenanthrene	178	10.561	10.562	-0.001	97	888194	2.00	2.01	
152 Anthracene	178	10.604	10.605	-0.001	97	902826	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.716	10.717	-0.001	96	651571	2.00	2.19	M
157 Di-n-butyl phthalate	149	10.941	10.941	0.000	100	856670	2.00	2.00	
164 Fluoranthene	202	11.630	11.631	-0.001	97	947870	2.00	2.05	
166 Benzidine	184	11.715	11.716	-0.001	99	550341	4.00	3.47	
167 Pyrene	202	11.876	11.876	0.000	97	942203	2.00	2.02	
174 Butyl benzyl phthalate	149	12.490	12.491	-0.001	97	343556	2.00	1.89	
181 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	95	500229	2.00	1.93	
179 3,3'-Dichlorobenzidine	252	13.265	13.265	0.000	73	430071	4.00	3.66	
180 Benzo[a]anthracene	228	13.350	13.351	-0.001	99	875112	2.00	1.99	
182 Chrysene	228	13.403	13.409	-0.006	96	826406	2.00	1.98	
184 Di-n-octyl phthalate	149	14.221	14.221	0.000	99	772083	2.00	1.89	
186 Benzo[b]fluoranthene	252	15.027	15.028	-0.001	97	763731	2.00	1.91	
187 Benzo[k]fluoranthene	252	15.070	15.071	-0.001	99	802069	2.00	1.94	
189 Benzo[a]pyrene	252	15.572	15.578	-0.006	78	723729	2.00	1.93	
193 Indeno[1,2,3-cd]pyrene	276	17.634	17.640	-0.006	98	827310	2.00	1.93	
194 Dibenz(a,h)anthracene	278	17.645	17.651	-0.006	91	679471	2.00	1.91	
195 Benzo[g,h,i]perylene	276	18.222	18.228	-0.006	96	688585	2.00	1.93	
S 261 Total Cresols	1				0			3.98	
S 262 3 & 4 Methylphenol	108				0			1.98	
S 263 3-Methylphenol	1				0			1.98	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00301

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00143

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016358.D

Injection Date: 08-Mar-2018 16:47:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: IC - List 1 2.0

Worklist Smp#: 8

Client ID:

Injection Vol: 2.0 ul

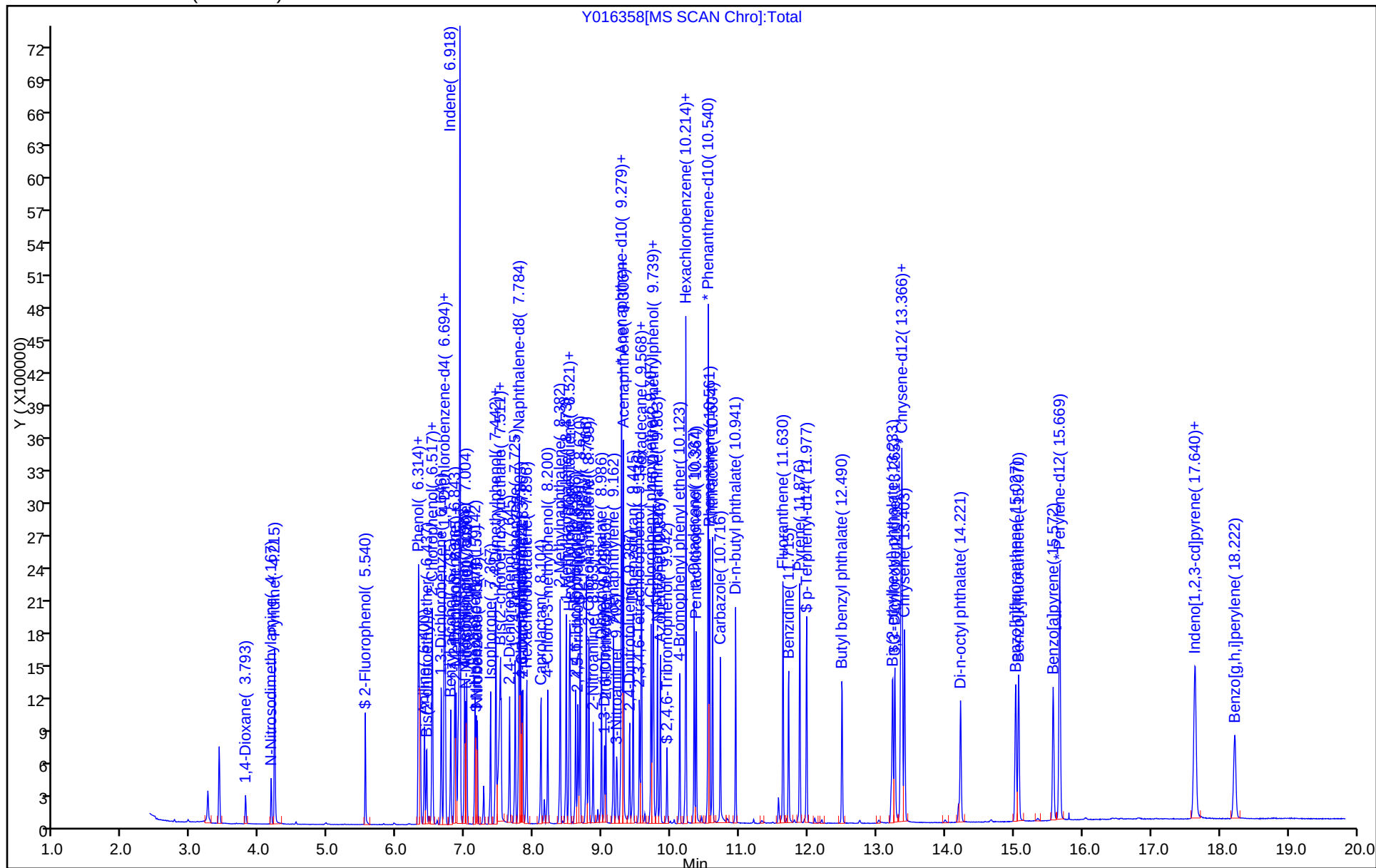
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016359.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 08-Mar-2018 17:16:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-009
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:42 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 09-Mar-2018 06:52:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.694	6.694	0.000	94	410591	4.00	4.00	
* 2 Naphthalene-d8	136	7.784	7.784	0.000	99	1569238	4.00	4.00	
* 3 Acenaphthene-d10	164	9.275	9.275	0.000	96	854472	4.00	4.00	
* 4 Phenanthrene-d10	188	10.541	10.541	0.000	97	1591902	4.00	4.00	
* 5 Chrysene-d12	240	13.367	13.367	0.000	99	1402631	4.00	4.00	
* 6 Perylene-d12	264	15.669	15.669	0.000	98	1306790	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.541	5.541	0.000	92	479253	4.00	4.06	
\$ 8 Phenol-d5	99	6.331	6.331	0.000	99	601201	4.00	4.10	
\$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	89	599441	4.00	4.04	
\$ 10 2-Fluorobiphenyl	172	8.671	8.671	0.000	99	1299246	4.00	4.04	
\$ 11 2,4,6-Tribromophenol	330	9.942	9.942	0.000	94	146450	4.00	3.81	
\$ 12 p-Terphenyl-d14	244	11.978	11.978	0.000	100	1238985	4.00	4.10	
13 1,4-Dioxane	88	3.788	3.788	0.000	95	196126	4.00	4.04	
14 N-Nitrosodimethylamine	42	4.162	4.162	0.000	88	280758	4.00	4.05	
15 Pyridine	52	4.210	4.210	0.000	95	742412	8.00	8.19	
35 Benzaldehyde	77	6.315	6.315	0.000	96	875837	8.00	8.35	
37 Phenol	94	6.342	6.342	0.000	98	633698	4.00	4.05	
36 Aniline	93	6.401	6.401	0.000	97	709208	4.00	3.93	
39 Bis(2-chloroethyl)ether	93	6.433	6.433	0.000	96	541571	4.00	4.22	
40 2-Chlorophenol	128	6.513	6.513	0.000	96	546053	4.00	4.02	
41 n-Decane	57	6.518	6.518	0.000	92	548705	4.00	4.02	
43 1,3-Dichlorobenzene	146	6.646	6.646	0.000	99	654323	4.00	3.97	
44 1,4-Dichlorobenzene	146	6.705	6.705	0.000	95	675305	4.00	4.00	
45 Benzyl alcohol	108	6.785	6.785	0.000	92	335355	4.00	4.09	
46 1,2-Dichlorobenzene	146	6.844	6.844	0.000	98	639236	4.00	4.00	
48 2-Methylphenol	108	6.865	6.865	0.000	96	489853	4.00	4.09	
49 2,2'-oxybis[1-chloropropan	45	6.892	6.892	0.000	92	706564	4.00	4.00	
47 Indene	115	6.919	6.919	0.000	98	4851956	20.0	21.3	
57 4-Methylphenol	108	6.988	6.988	0.000	95	511768	4.00	4.08	
53 N-Nitrosodi-n-propylamine	70	7.004	7.004	0.000	91	366965	4.00	4.09	
52 Acetophenone	105	7.020	7.020	0.000	96	722649	4.00	4.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.143	7.143	0.000	90	248030	4.00	4.00	
59 Nitrobenzene	77	7.175	7.175	0.000	88	549405	4.00	4.01	
62 Isophorone	82	7.368	7.368	0.000	98	927855	4.00	4.10	
66 2,4-Dimethylphenol	107	7.442	7.442	0.000	94	522590	4.00	4.03	
64 2-Nitrophenol	139	7.448	7.448	0.000	95	307238	4.00	3.96	
69 Bis(2-chloroethoxy)methane	93	7.522	7.522	0.000	99	618539	4.00	4.06	
70 Benzoic acid	105	7.533	7.533	0.000	76	1605184	20.0	19.1	
72 2,4-Dichlorophenol	162	7.645	7.645	0.000	91	492322	4.00	3.94	
73 1,2,4-Trichlorobenzene	180	7.725	7.725	0.000	94	584995	4.00	3.94	
74 Naphthalene	128	7.806	7.806	0.000	98	1701469	4.00	4.05	
76 4-Chloroaniline	127	7.822	7.822	0.000	96	587785	4.00	4.03	
77 2,6-Dichlorophenol	162	7.838	7.838	0.000	96	502732	4.00	4.10	
79 Hexachlorobutadiene	225	7.896	7.896	0.000	95	337932	4.00	3.98	
84 Caprolactam	113	8.115	8.115	0.000	78	285521	8.00	7.99	
85 4-Chloro-3-methylphenol	107	8.201	8.201	0.000	94	413015	4.00	4.11	
87 2-Methylnaphthalene	142	8.383	8.383	0.000	92	1140187	4.00	4.01	
89 1-Methylnaphthalene	142	8.473	8.473	0.000	93	1113842	4.00	4.10	
90 Hexachlorocyclopentadiene	237	8.516	8.516	0.000	94	368952	4.00	3.91	
91 1,2,4,5-Tetrachlorobenzene	216	8.527	8.527	0.000	96	620255	4.00	4.02	
93 2,4,6-Trichlorophenol	196	8.607	8.607	0.000	91	372799	4.00	3.91	
94 2,4,5-Trichlorophenol	196	8.644	8.644	0.000	95	361781	4.00	3.89	
96 1,1'-Biphenyl	154	8.767	8.767	0.000	95	1364859	4.00	4.09	
97 2-Chloronaphthalene	162	8.799	8.799	0.000	95	1086048	4.00	4.05	
100 2-Nitroaniline	65	8.863	8.863	0.000	89	265444	4.00	4.02	
105 Dimethyl phthalate	163	8.986	8.986	0.000	99	1155369	4.00	4.05	
106 1,3-Dinitrobenzene	168	9.029	9.029	0.000	89	175383	4.00	3.90	
107 2,6-Dinitrotoluene	165	9.050	9.050	0.000	95	270924	4.00	3.95	
108 Acenaphthylene	152	9.163	9.163	0.000	98	1555335	4.00	4.20	
109 3-Nitroaniline	138	9.205	9.205	0.000	97	157146	4.00	3.36	
111 2,4-Dinitrophenol	184	9.291	9.291	0.000	91	279659	8.00	7.42	
112 4-Nitrophenol	109	9.307	9.307	0.000	91	286001	8.00	8.13	
110 Acenaphthene	153	9.307	9.307	0.000	95	1165026	4.00	4.12	
114 2,4-Dinitrotoluene	165	9.398	9.398	0.000	95	342822	4.00	3.97	
115 Dibenzofuran	168	9.446	9.446	0.000	97	1508658	4.00	4.05	
118 2,3,4,6-Tetrachlorophenol	232	9.536	9.536	0.000	71	300113	4.00	3.88	
121 Hexadecane	57	9.563	9.563	0.000	95	626398	4.00	4.01	
120 Diethyl phthalate	149	9.574	9.574	0.000	99	1129593	4.00	4.04	
123 4-Chlorophenyl phenyl ethe	204	9.707	9.707	0.000	90	613830	4.00	3.96	
126 4-Nitroaniline	138	9.729	9.729	0.000	87	254317	4.00	4.21	
124 Fluorene	166	9.739	9.739	0.000	94	1278566	4.00	4.12	
127 4,6-Dinitro-2-methylphenol	198	9.750	9.750	0.000	93	357569	8.00	7.40	
130 N-Nitrosodiphenylamine	169	9.804	9.804	0.000	100	864154	4.00	4.03	
129 Diphenylamine	169	9.804	9.804	0.000	94	864154	3.42	3.45	
132 Azobenzene	77	9.841	9.841	0.000	99	1116992	4.00	4.08	
131 1,2-Diphenylhydrazine	77	9.841	9.841	0.000	97	1116992	4.00	4.08	
139 4-Bromophenyl phenyl ether	248	10.129	10.129	0.000	65	359481	4.00	3.96	
140 Hexachlorobenzene	284	10.215	10.215	0.000	94	384701	4.00	3.94	
143 Atrazine	200	10.220	10.220	0.000	95	673163	8.00	8.13	
148 n-Octadecane	57	10.338	10.338	0.000	93	616273	4.00	4.03	
145 Pentachlorophenol	266	10.364	10.364	0.000	94	429004	8.00	7.39	
151 Phenanthrene	178	10.562	10.562	0.000	97	1819538	4.00	4.03	
152 Anthracene	178	10.605	10.605	0.000	97	1868211	4.00	4.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.717	10.717	0.000	96	1086672	4.00	3.87	
157 Di-n-butyl phthalate	149	10.941	10.941	0.000	100	1835387	4.00	4.20	
164 Fluoranthene	202	11.631	11.631	0.000	98	1959014	4.00	4.15	
166 Benzidine	184	11.716	11.716	0.000	99	1177070	8.00	7.43	
167 Pyrene	202	11.876	11.876	0.000	97	1973386	4.00	4.24	
174 Butyl benzyl phthalate	149	12.491	12.491	0.000	97	730734	4.00	3.94	
181 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	95	1068818	4.00	4.02	
179 3,3'-Dichlorobenzidine	252	13.265	13.265	0.000	73	779655	8.00	6.65	
180 Benzo[a]anthracene	228	13.351	13.351	0.000	98	1788329	4.00	4.06	
182 Chrysene	228	13.409	13.409	0.000	96	1705157	4.00	4.09	
184 Di-n-octyl phthalate	149	14.221	14.221	0.000	99	1667711	4.00	3.95	
186 Benzo[b]fluoranthene	252	15.028	15.028	0.000	97	1601527	4.00	3.98	
187 Benzo[k]fluoranthene	252	15.071	15.071	0.000	99	1703166	4.00	4.09	
189 Benzo[a]pyrene	252	15.578	15.578	0.000	78	1512569	4.00	3.99	
193 Indeno[1,2,3-cd]pyrene	276	17.640	17.640	0.000	95	1701362	4.00	3.92	
194 Dibenz(a,h)anthracene	278	17.651	17.651	0.000	91	1404780	4.00	3.91	
195 Benzo[g,h,i]perylene	276	18.228	18.228	0.000	96	1415957	4.00	3.94	

Reagents:

MB_L1LVI_WRK_00302

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00143

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016359.D

Injection Date: 08-Mar-2018 17:16:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: ICIS

Worklist Smp#: 9

Client ID:

Injection Vol: 2.0 ul

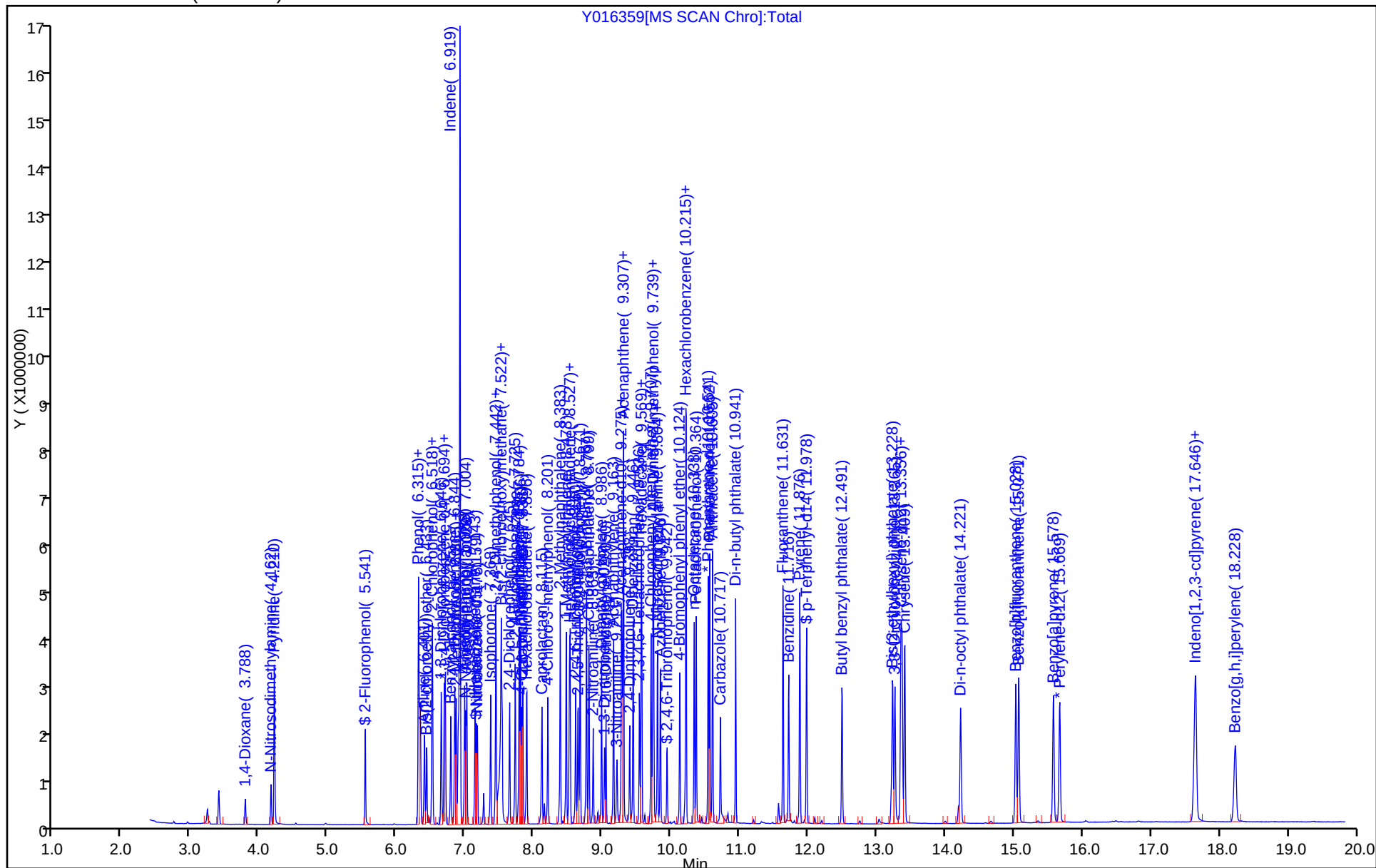
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016360.D
 Lims ID: IC - List 1 8.0
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Mar-2018 17:45:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-010
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:47 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 09-Mar-2018 06:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.694	6.694	0.000	78	421547	4.00	4.00	a
* 2 Naphthalene-d8	136	7.784	7.784	0.000	99	1612328	4.00	4.00	
* 3 Acenaphthene-d10	164	9.280	9.275	0.005	96	890747	4.00	4.00	
* 4 Phenanthrene-d10	188	10.540	10.541	-0.001	97	1643778	4.00	4.00	
* 5 Chrysene-d12	240	13.372	13.367	0.005	99	1483984	4.00	4.00	
* 6 Perylene-d12	264	15.669	15.669	0.000	98	1398925	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.540	5.541	-0.001	92	1005625	8.00	8.29	
\$ 8 Phenol-d5	99	6.336	6.331	0.005	98	1243248	8.00	8.26	
\$ 9 Nitrobenzene-d5	82	7.159	7.159	0.000	90	1247693	8.00	8.18	
\$ 10 2-Fluorobiphenyl	172	8.676	8.671	0.005	99	2743905	8.00	8.19	
\$ 11 2,4,6-Tribromophenol	330	9.942	9.942	0.000	95	321279	8.00	7.99	
\$ 12 p-Terphenyl-d14	244	11.977	11.978	-0.001	99	2662939	8.00	8.33	
13 1,4-Dioxane	88	3.793	3.788	0.005	95	402740	8.00	8.08	
14 N-Nitrosodimethylamine	42	4.173	4.162	0.010	89	570829	8.00	8.03	
15 Pyridine	52	4.215	4.210	0.005	95	1529654	16.0	16.4	
35 Benzaldehyde	77	6.320	6.315	0.005	96	1749472	16.0	16.2	
37 Phenol	94	6.347	6.342	0.005	98	1328561	8.00	8.27	
36 Aniline	93	6.406	6.401	0.005	97	1549489	8.00	8.36	
39 Bis(2-chloroethyl)ether	93	6.438	6.433	0.005	94	1073781	8.00	8.15	
40 2-Chlorophenol	128	6.512	6.513	-0.001	96	1150322	8.00	8.25	
41 n-Decane	57	6.518	6.518	0.000	91	1158705	8.00	8.27	
43 1,3-Dichlorobenzene	146	6.651	6.646	0.005	99	1385245	8.00	8.19	
44 1,4-Dichlorobenzene	146	6.710	6.705	0.005	96	1407263	8.00	8.12	
45 Benzyl alcohol	108	6.790	6.785	0.005	92	709509	8.00	8.43	
46 1,2-Dichlorobenzene	146	6.844	6.844	0.000	98	1346068	8.00	8.20	
48 2-Methylphenol	108	6.865	6.865	0.000	97	1022022	8.00	8.32	
49 2,2'-oxybis[1-chloropropan	45	6.897	6.892	0.005	93	1483599	8.00	8.18	
47 Indene	115	6.924	6.919	0.005	97	9253363	40.0	39.5	e
57 4-Methylphenol	108	6.993	6.988	0.005	95	1085001	8.00	8.43	
53 N-Nitrosodi-n-propylamine	70	7.009	7.004	0.005	90	776020	8.00	8.43	
52 Acetophenone	105	7.025	7.020	0.005	97	1497095	8.00	8.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.143	7.143	0.000	90	525678	8.00	8.26	
59 Nitrobenzene	77	7.175	7.175	0.000	88	1155936	8.00	8.21	
62 Isophorone	82	7.372	7.368	0.004	98	1950682	8.00	8.40	
66 2,4-Dimethylphenol	107	7.447	7.442	0.005	88	1113074	8.00	8.36	
64 2-Nitrophenol	139	7.447	7.448	-0.001	74	645185	8.00	8.02	
69 Bis(2-chloroethoxy)methane	93	7.522	7.522	0.000	99	1300395	8.00	8.31	
70 Benzoic acid	105	7.570	7.533	0.037	90	3588574	40.0	39.2	M
72 2,4-Dichlorophenol	162	7.645	7.645	0.000	92	1048209	8.00	8.10	
73 1,2,4-Trichlorobenzene	180	7.730	7.725	0.005	93	1231424	8.00	8.07	
74 Naphthalene	128	7.805	7.806	-0.001	98	3511350	8.00	8.13	
76 4-Chloroaniline	127	7.827	7.822	0.005	98	1327947	8.00	8.87	
77 2,6-Dichlorophenol	162	7.837	7.838	-0.001	98	1053537	8.00	8.35	
79 Hexachlorobutadiene	225	7.896	7.896	0.000	96	702694	8.00	8.05	
84 Caprolactam	113	8.136	8.115	0.021	79	621345	16.0	16.9	
85 4-Chloro-3-methylphenol	107	8.206	8.201	0.005	93	867824	8.00	8.41	
87 2-Methylnaphthalene	142	8.382	8.383	-0.001	92	2425020	8.00	8.31	
89 1-Methylnaphthalene	142	8.473	8.473	0.000	93	2303583	8.00	8.24	
90 Hexachlorocyclopentadiene	237	8.516	8.516	0.000	93	802307	8.00	8.08	
91 1,2,4,5-Tetrachlorobenzene	216	8.526	8.527	-0.001	96	1313714	8.00	8.18	
93 2,4,6-Trichlorophenol	196	8.612	8.607	0.005	91	828276	8.00	8.27	
94 2,4,5-Trichlorophenol	196	8.644	8.644	0.000	95	802810	8.00	8.20	
96 1,1'-Biphenyl	154	8.767	8.767	0.000	96	2863245	8.00	8.23	
97 2-Chloronaphthalene	162	8.804	8.799	0.005	95	2287022	8.00	8.17	
100 2-Nitroaniline	65	8.868	8.863	0.005	88	563492	8.00	8.11	
105 Dimethyl phthalate	163	8.991	8.986	0.005	99	2456773	8.00	8.26	
106 1,3-Dinitrobenzene	168	9.034	9.029	0.005	90	393162	8.00	8.38	
107 2,6-Dinitrotoluene	165	9.055	9.050	0.005	94	584538	8.00	8.10	
108 Acenaphthylene	152	9.162	9.163	0.000	98	3254897	8.00	8.43	
109 3-Nitroaniline	138	9.210	9.205	0.005	97	347547	8.00	7.12	
111 2,4-Dinitrophenol	184	9.296	9.291	0.005	89	671211	16.0	15.5	
110 Acenaphthene	153	9.306	9.307	-0.001	95	2429922	8.00	8.23	
112 4-Nitrophenol	109	9.312	9.307	0.005	89	610164	16.0	16.3	
114 2,4-Dinitrotoluene	165	9.397	9.398	-0.001	95	731673	8.00	8.05	
115 Dibenzofuran	168	9.451	9.446	0.005	97	3160923	8.00	8.13	
118 2,3,4,6-Tetrachlorophenol	232	9.541	9.536	0.005	70	661290	8.00	8.10	
121 Hexadecane	57	9.568	9.563	0.005	96	1368679	8.00	8.40	
120 Diethyl phthalate	149	9.573	9.574	-0.001	99	2411910	8.00	8.28	
123 4-Chlorophenyl phenyl ethe	204	9.707	9.707	0.000	91	1325754	8.00	8.21	
126 4-Nitroaniline	138	9.728	9.729	-0.001	89	523155	8.00	8.25	
124 Fluorene	166	9.739	9.739	0.000	94	2718885	8.00	8.41	
127 4,6-Dinitro-2-methylphenol	198	9.750	9.750	0.000	93	849373	16.0	15.8	
129 Diphenylamine	169	9.803	9.804	-0.001	94	1815924	6.84	7.02	
130 N-Nitrosodiphenylamine	169	9.803	9.804	-0.001	100	1815924	8.00	8.20	
131 1,2-Diphenylhydrazine	77	9.846	9.841	0.005	97	2338910	8.00	8.28	
132 Azobenzene	77	9.846	9.841	0.005	98	2338912	8.00	8.28	
139 4-Bromophenyl phenyl ether	248	10.129	10.129	0.000	64	776189	8.00	8.28	
140 Hexachlorobenzene	284	10.220	10.215	0.005	93	851211	8.00	8.44	
143 Atrazine	200	10.220	10.220	0.000	95	1434764	16.0	16.6	
148 n-Octadecane	57	10.337	10.338	-0.001	95	1340967	8.00	8.49	
145 Pentachlorophenol	266	10.369	10.364	0.005	93	993480	16.0	16.0	
151 Phenanthrene	178	10.562	10.562	0.000	98	3877265	8.00	8.32	
152 Anthracene	178	10.604	10.605	-0.001	98	3890434	8.00	8.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.722	10.717	0.005	96	2013052	8.00	7.32	
157 Di-n-butyl phthalate	149	10.941	10.941	0.000	100	3881122	8.00	8.60	
164 Fluoranthene	202	11.635	11.631	0.004	98	4112052	8.00	8.44	
166 Benzidine	184	11.721	11.716	0.005	99	2821969	16.0	16.8	
167 Pyrene	202	11.881	11.876	0.005	97	4114261	8.00	8.35	
174 Butyl benzyl phthalate	149	12.496	12.491	0.005	97	1640010	8.00	8.28	
181 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	95	2367296	8.00	8.31	
179 3,3'-Dichlorobenzidine	252	13.270	13.265	0.005	73	1727271	16.0	13.9	
180 Benzo[a]anthracene	228	13.356	13.351	0.005	99	3855933	8.00	8.28	
182 Chrysene	228	13.409	13.409	0.000	96	3640239	8.00	8.25	
184 Di-n-octyl phthalate	149	14.226	14.221	0.005	99	3768077	8.00	8.30	
186 Benzo[b]fluoranthene	252	15.033	15.028	0.005	97	3507564	8.00	8.12	
187 Benzo[k]fluoranthene	252	15.076	15.071	0.005	99	3553964	8.00	7.96	
189 Benzo[a]pyrene	252	15.583	15.578	0.005	78	3371962	8.00	8.28	
193 Indeno[1,2,3-cd]pyrene	276	17.645	17.640	0.005	98	3750032	8.00	8.05	
194 Dibenz(a,h)anthracene	278	17.661	17.651	0.010	91	3149963	8.00	8.15	
195 Benzo[g,h,i]perylene	276	18.244	18.228	0.016	96	3139872	8.00	8.12	
S 261 Total Cresols	1				0			16.7	
S 262 3 & 4 Methylphenol	108				0			8.43	
S 263 3-Methylphenol	1				0			8.43	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00303

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00143

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016360.D

Injection Date: 08-Mar-2018 17:45:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: IC - List 1 8.0

Worklist Smp#: 10

Client ID:

Injection Vol: 2.0 ul

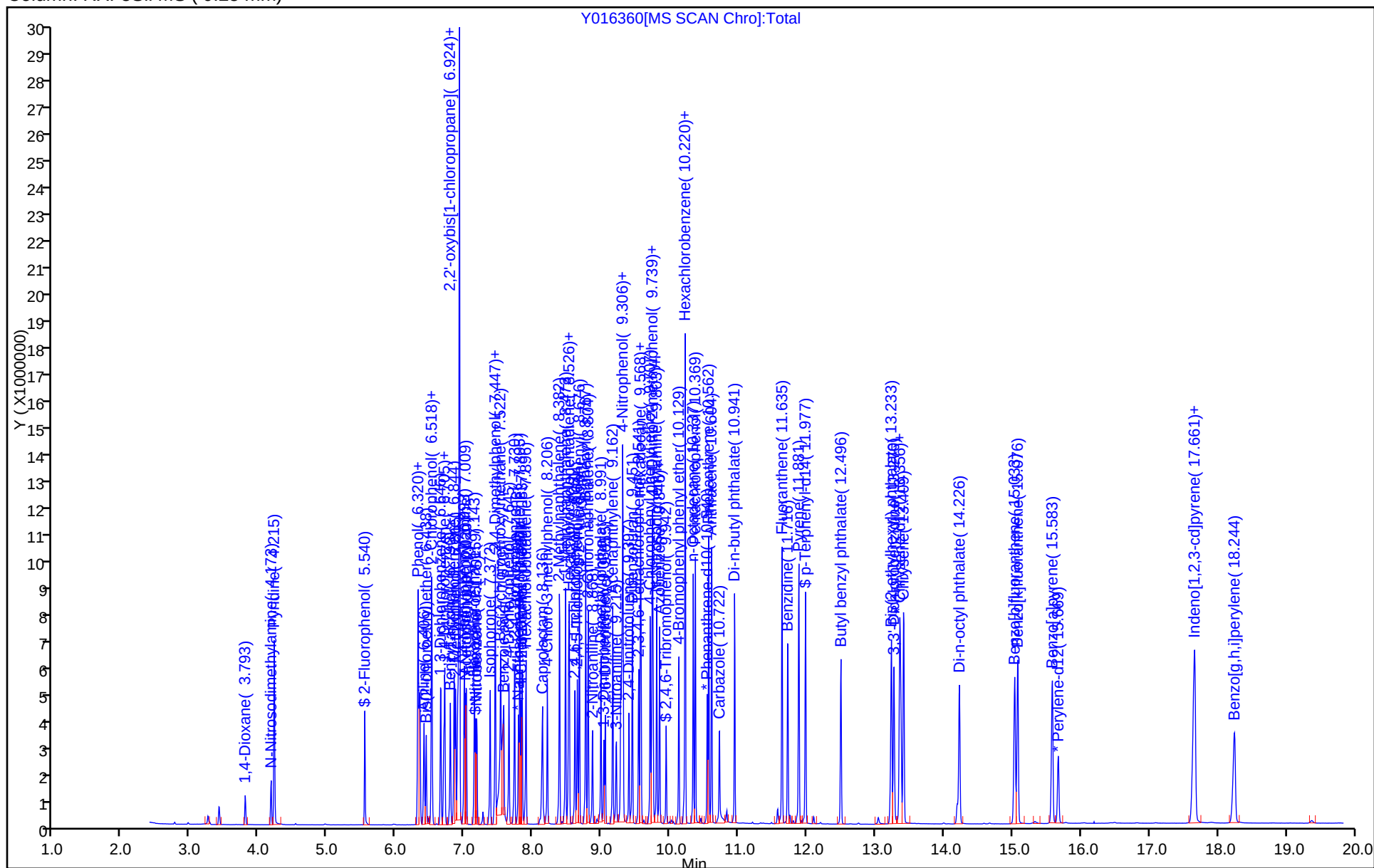
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016360.D

Injection Date: 08-Mar-2018 17:45:30

Instrument ID: HP5973Y

Lims ID: IC - List 1 8.0

Client ID:

Operator ID: BS

ALS Bottle#:

10

Worklist Smp#: 10

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

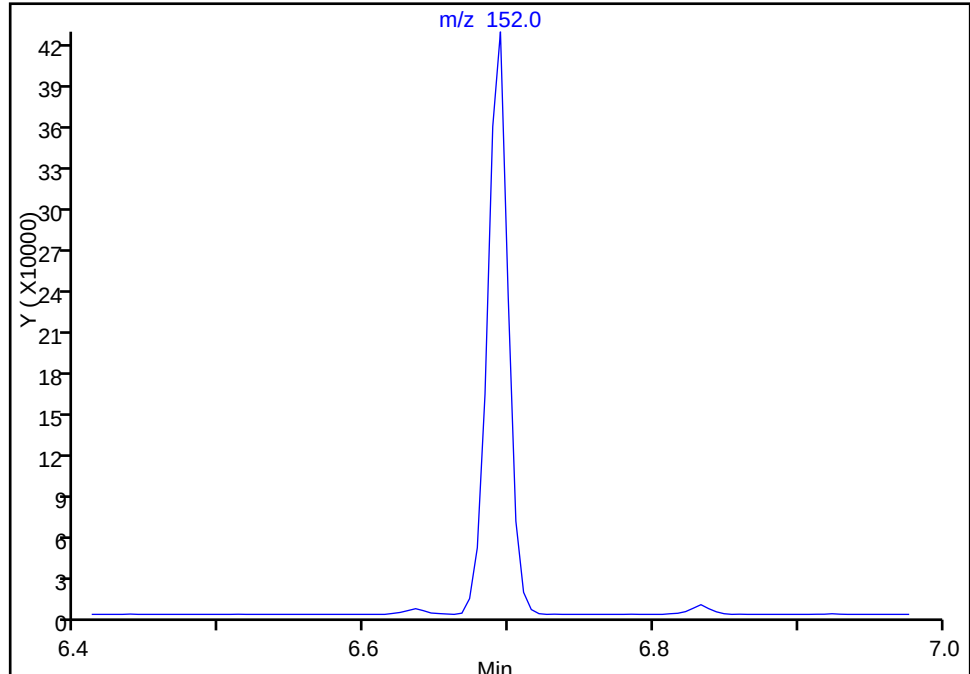
* 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

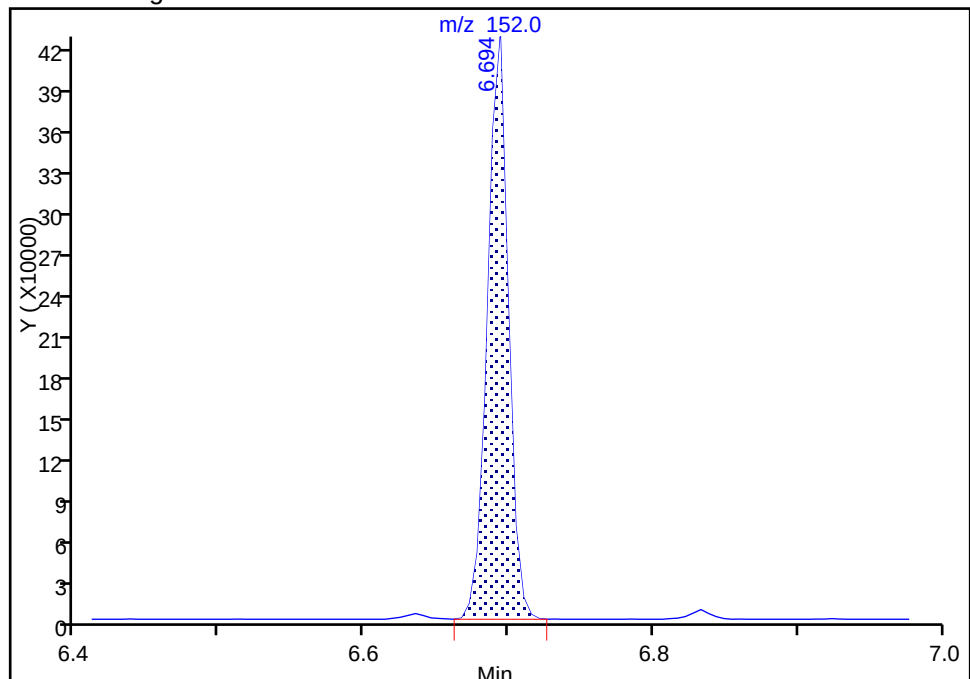
Not Detected

Expected RT: 6.69

Processing Integration Results



Manual Integration Results



RT: 6.69

Area: 421547

Amount: 4.000000

Amount Units: ng/uL

Reviewer: schickr, 09-Mar-2018 06:57:49

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016361.D
 Lims ID: IC - List 1 12.0
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Mar-2018 18:14:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-011
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:52 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 09-Mar-2018 06:58:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.696	6.694	0.002	82	440187	4.00	4.00	a
* 2 Naphthalene-d8	136	7.786	7.784	0.002	99	1667416	4.00	4.00	
* 3 Acenaphthene-d10	164	9.276	9.275	0.001	96	914819	4.00	4.00	
* 4 Phenanthrene-d10	188	10.542	10.541	0.001	97	1704326	4.00	4.00	
* 5 Chrysene-d12	240	13.374	13.367	0.007	99	1578105	4.00	4.00	
* 6 Perylene-d12	264	15.671	15.669	0.002	98	1468446	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.542	5.541	0.001	92	1572835	12.0	12.4	
\$ 8 Phenol-d5	99	6.338	6.331	0.007	98	1988586	12.0	12.6	
\$ 9 Nitrobenzene-d5	82	7.161	7.159	0.002	89	1976680	12.0	12.5	
\$ 10 2-Fluorobiphenyl	172	8.678	8.671	0.007	99	4321651	12.0	12.6	
\$ 11 2,4,6-Tribromophenol	330	9.944	9.942	0.002	93	538863	12.0	12.9	
\$ 12 p-Terphenyl-d14	244	11.979	11.978	0.001	99	4369949	12.0	12.9	
13 1,4-Dioxane	88	3.795	3.788	0.007	96	615953	12.0	11.8	
14 N-Nitrosodimethylamine	42	4.175	4.162	0.013	90	874988	12.0	11.8	
15 Pyridine	52	4.217	4.210	0.007	95	2423129	24.0	24.9	
35 Benzaldehyde	77	6.322	6.315	0.007	97	2676851	24.0	23.8	
37 Phenol	94	6.349	6.342	0.007	98	2111862	12.0	12.6	
36 Aniline	93	6.408	6.401	0.007	97	2471556	12.0	12.8	
39 Bis(2-chloroethyl)ether	93	6.440	6.433	0.007	94	1696382	12.0	12.3	
40 2-Chlorophenol	128	6.514	6.513	0.001	96	1859447	12.0	12.8	
41 n-Decane	57	6.520	6.518	0.002	91	1841586	12.0	12.6	
43 1,3-Dichlorobenzene	146	6.653	6.646	0.007	99	2156017	12.0	12.2	
44 1,4-Dichlorobenzene	146	6.707	6.705	0.002	96	2224211	12.0	12.3	
45 Benzyl alcohol	108	6.792	6.785	0.007	93	1129471	12.0	12.9	
46 1,2-Dichlorobenzene	146	6.846	6.844	0.002	98	2128761	12.0	12.4	
48 2-Methylphenol	108	6.867	6.865	0.002	96	1653936	12.0	12.9	
49 2,2'-oxybis[1-chloropropan	45	6.899	6.892	0.007	92	2342068	12.0	12.4	
47 Indene	115	6.920	6.919	0.001	96	12320611	60.0	50.3	e
57 4-Methylphenol	108	6.995	6.988	0.007	95	1725131	12.0	12.8	
53 N-Nitrosodi-n-propylamine	70	7.011	7.004	0.007	90	1224246	12.0	12.7	
52 Acetophenone	105	7.027	7.020	0.007	97	2360542	12.0	12.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.139	7.143	-0.004	90	830593	12.0	12.5	
59 Nitrobenzene	77	7.177	7.175	0.002	88	1825810	12.0	12.5	
62 Isophorone	82	7.375	7.368	0.007	99	3040652	12.0	12.7	
66 2,4-Dimethylphenol	107	7.449	7.442	0.007	88	1791448	12.0	13.0	
64 2-Nitrophenol	139	7.449	7.448	0.001	76	1053616	12.0	12.6	
69 Bis(2-chloroethoxy)methane	93	7.524	7.522	0.002	99	2049957	12.0	12.7	
70 Benzoic acid	105	7.594	7.533	0.061	91	5947649	60.0	61.5	M
72 2,4-Dichlorophenol	162	7.647	7.645	0.002	91	1700669	12.0	12.7	
73 1,2,4-Trichlorobenzene	180	7.727	7.725	0.002	94	1957789	12.0	12.4	
74 Naphthalene	128	7.807	7.806	0.001	98	5480555	12.0	12.3	
76 4-Chloroaniline	127	7.829	7.822	0.007	97	2046620	12.0	13.2	
77 2,6-Dichlorophenol	162	7.839	7.838	0.001	98	1694396	12.0	13.0	
79 Hexachlorobutadiene	225	7.898	7.896	0.002	95	1136713	12.0	12.6	
84 Caprolactam	113	8.155	8.115	0.040	80	984156	24.0	25.9	
85 4-Chloro-3-methylphenol	107	8.213	8.201	0.012	94	1394961	12.0	13.1	
87 2-Methylnaphthalene	142	8.384	8.383	0.001	92	3836898	12.0	12.7	
89 1-Methylnaphthalene	142	8.475	8.473	0.002	93	3657138	12.0	12.7	
90 Hexachlorocyclopentadiene	237	8.518	8.516	0.002	93	1318126	12.0	12.9	
91 1,2,4,5-Tetrachlorobenzene	216	8.528	8.527	0.001	96	2109689	12.0	12.8	
93 2,4,6-Trichlorophenol	196	8.614	8.607	0.007	91	1284461	12.0	12.5	
94 2,4,5-Trichlorophenol	196	8.646	8.644	0.002	95	1290886	12.0	12.8	
96 1,1'-Biphenyl	154	8.769	8.767	0.002	96	4534054	12.0	12.7	
97 2-Chloronaphthalene	162	8.806	8.799	0.007	95	3632021	12.0	12.6	
100 2-Nitroaniline	65	8.870	8.863	0.007	89	906115	12.0	12.6	
105 Dimethyl phthalate	163	8.993	8.986	0.007	99	3886382	12.0	12.7	
106 1,3-Dinitrobenzene	168	9.036	9.029	0.007	90	623242	12.0	12.8	
107 2,6-Dinitrotoluene	165	9.057	9.050	0.007	94	933677	12.0	12.6	
108 Acenaphthylene	152	9.164	9.163	0.002	98	5122928	12.0	12.9	
109 3-Nitroaniline	138	9.212	9.205	0.007	96	722873	12.0	14.4	
111 2,4-Dinitrophenol	184	9.298	9.291	0.007	86	1161336	24.0	25.3	
112 4-Nitrophenol	109	9.319	9.307	0.012	91	972660	24.0	25.1	a
110 Acenaphthene	153	9.308	9.307	0.001	96	3875244	12.0	12.8	
114 2,4-Dinitrotoluene	165	9.405	9.398	0.007	95	1175072	12.0	12.5	
115 Dibenzofuran	168	9.453	9.446	0.007	97	4994905	12.0	12.5	
118 2,3,4,6-Tetrachlorophenol	232	9.543	9.536	0.007	70	1079085	12.0	12.8	
121 Hexadecane	57	9.565	9.563	0.002	95	2169565	12.0	13.0	
120 Diethyl phthalate	149	9.576	9.574	0.002	99	3833420	12.0	12.8	
123 4-Chlorophenyl phenyl ethe	204	9.709	9.707	0.002	91	2105453	12.0	12.7	
126 4-Nitroaniline	138	9.736	9.729	0.007	90	687748	12.0	10.5	
124 Fluorene	166	9.741	9.739	0.002	94	4332540	12.0	13.0	
127 4,6-Dinitro-2-methylphenol	198	9.757	9.750	0.007	95	1425885	24.0	25.0	
130 N-Nitrosodiphenylamine	169	9.805	9.804	0.001	99	2923942	12.0	12.7	
129 Diphenylamine	169	9.805	9.804	0.001	94	2923942	10.3	10.9	
132 Azobenzene	77	9.848	9.841	0.007	98	3612134	12.0	12.3	
131 1,2-Diphenylhydrazine	77	9.848	9.841	0.007	96	3612134	12.0	12.3	
139 4-Bromophenyl phenyl ether	248	10.131	10.129	0.002	64	1237571	12.0	12.7	
140 Hexachlorobenzene	284	10.222	10.215	0.007	94	1374877	12.0	13.1	
143 Atrazine	200	10.227	10.220	0.007	96	2315854	24.0	26.1	
148 n-Octadecane	57	10.339	10.338	0.001	95	2121929	12.0	13.0	
145 Pentachlorophenol	266	10.371	10.364	0.007	93	1634102	24.0	25.2	
151 Phenanthrene	178	10.564	10.562	0.002	98	5878821	12.0	12.2	
152 Anthracene	178	10.607	10.605	0.002	98	6063993	12.0	12.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.719	10.717	0.002	96	3321143	12.0	11.9	M
157 Di-n-butyl phthalate	149	10.943	10.941	0.002	100	6061357	12.0	13.0	
164 Fluoranthene	202	11.638	11.631	0.007	98	6379520	12.0	12.6	
166 Benzidine	184	11.723	11.716	0.007	99	5007123	24.0	28.1	
167 Pyrene	202	11.883	11.876	0.007	96	6591560	12.0	12.6	
174 Butyl benzyl phthalate	149	12.498	12.491	0.007	97	2678884	12.0	12.7	
181 Bis(2-ethylhexyl) phthalat	149	13.235	13.233	0.002	95	3845124	12.0	12.6	
179 3,3'-Dichlorobenzidine	252	13.278	13.265	0.013	73	3397306	24.0	25.7	
180 Benzo[a]anthracene	228	13.358	13.351	0.007	98	6136793	12.0	12.4	
182 Chrysene	228	13.417	13.409	0.007	96	5735188	12.0	12.2	
184 Di-n-octyl phthalate	149	14.229	14.221	0.007	99	6249923	12.0	12.9	
186 Benzo[b]fluoranthene	252	15.041	15.028	0.012	97	5799132	12.0	12.8	
187 Benzo[k]fluoranthene	252	15.083	15.071	0.012	98	5943075	12.0	12.7	
189 Benzo[a]pyrene	252	15.591	15.578	0.013	78	5419089	12.0	12.7	
193 Indeno[1,2,3-cd]pyrene	276	17.663	17.640	0.023	98	6263533	12.0	12.8	
194 Dibenz(a,h)anthracene	278	17.680	17.651	0.029	92	5222996	12.0	12.9	
195 Benzo[g,h,i]perylene	276	18.256	18.228	0.028	96	5130568	12.0	12.6	
S 262 3 & 4 Methylphenol	108				0			12.8	
S 263 3-Methylphenol	1				0			12.8	
S 261 Total Cresols	1				0			25.7	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00304

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00143

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016361.D

Injection Date: 08-Mar-2018 18:14:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: IC - List 1 12.0

Worklist Smp#: 11

Client ID:

Injection Vol: 2.0 ul

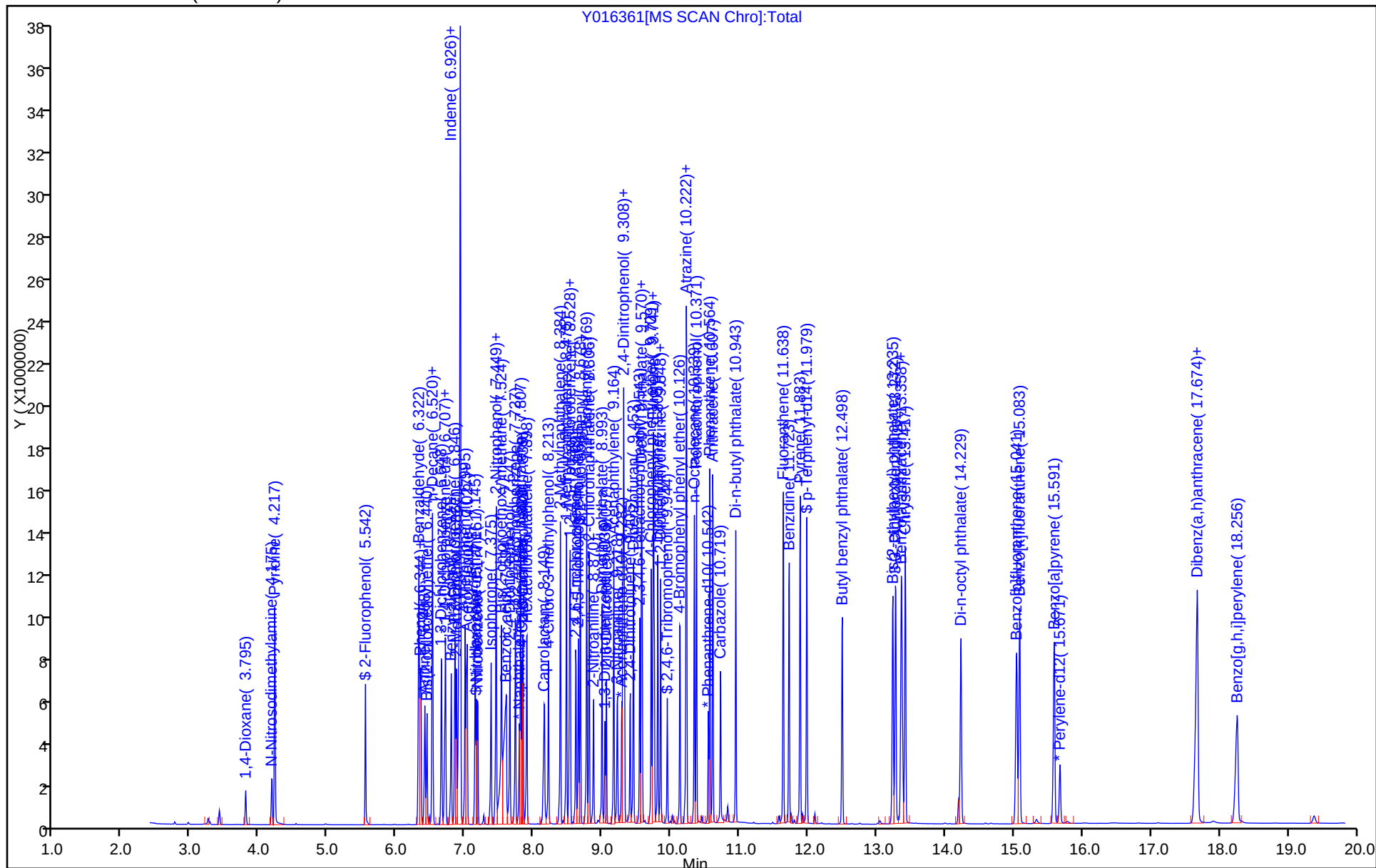
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016361.D

Injection Date: 08-Mar-2018 18:14:30

Instrument ID: HP5973Y

Lims ID: IC - List 1 12.0

Client ID:

Operator ID: BS

ALS Bottle#:

11

Worklist Smp#: 11

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

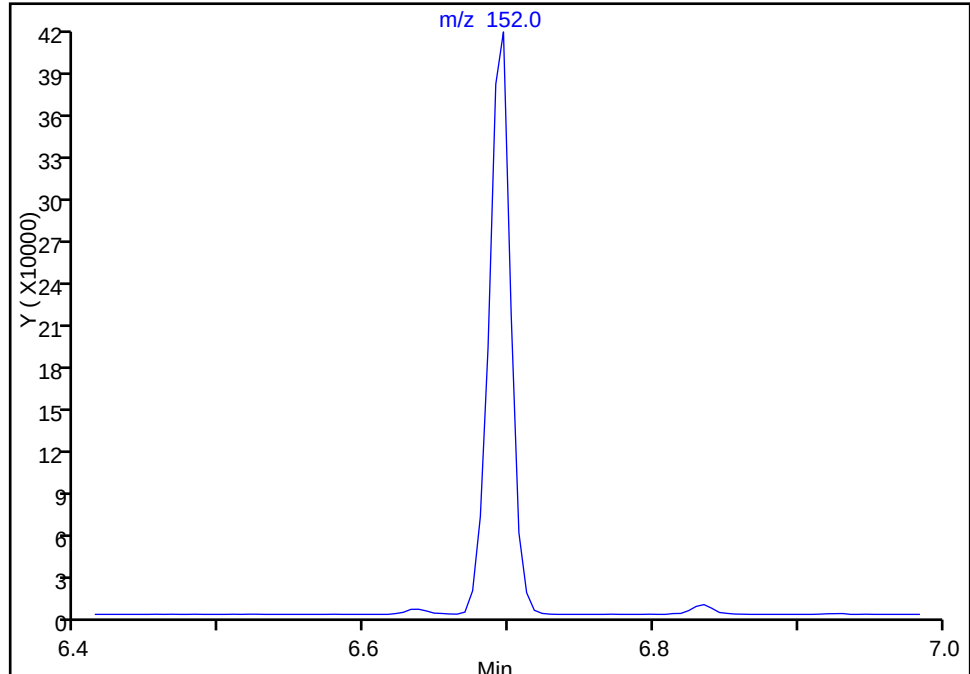
* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

Not Detected

Expected RT: 6.69

Processing Integration Results



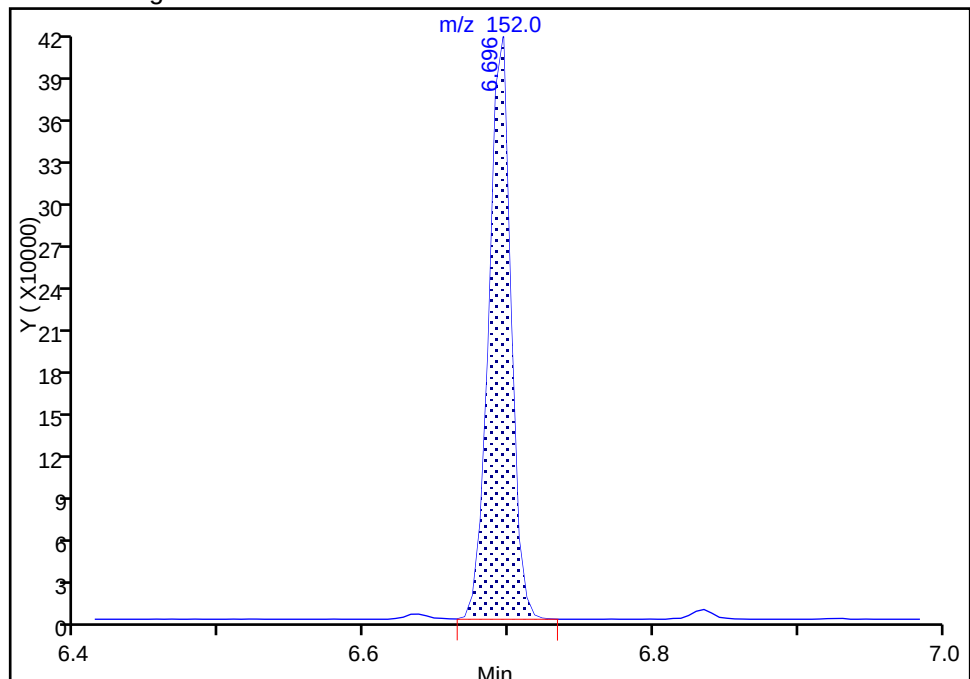
RT: 6.70

Area: 440187

Amount: 4.000000

Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 09-Mar-2018 06:58:07

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Lims ID: IC - List 1 16.0
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 08-Mar-2018 18:44:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0069765-012
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 08:09:57 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: schickr

Date: 09-Mar-2018 07:00:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.695	6.694	0.001	71	452326	4.00	4.00	a
* 2 Naphthalene-d8	136	7.790	7.784	0.006	98	1705540	4.00	4.00	
* 3 Acenaphthene-d10	164	9.280	9.275	0.005	93	950452	4.00	4.00	
* 4 Phenanthrene-d10	188	10.546	10.541	0.005	97	1718762	4.00	4.00	
* 5 Chrysene-d12	240	13.378	13.367	0.011	99	1650394	4.00	4.00	
* 6 Perylene-d12	264	15.675	15.669	0.006	98	1526255	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.541	5.541	0.000	92	2173834	16.0	16.7	
\$ 8 Phenol-d5	99	6.342	6.331	0.011	98	2768051	16.0	17.1	
\$ 9 Nitrobenzene-d5	82	7.165	7.159	0.006	88	2680648	16.0	16.6	
\$ 10 2-Fluorobiphenyl	172	8.677	8.671	0.005	98	5753607	16.0	16.1	
\$ 11 2,4,6-Tribromophenol	330	9.948	9.942	0.006	93	750696	16.0	17.7	
\$ 12 p-Terphenyl-d14	244	11.983	11.978	0.005	99	5869871	16.0	16.5	
13 1,4-Dioxane	88	3.794	3.788	0.006	95	860756	16.0	16.1	
14 N-Nitrosodimethylamine	42	4.178	4.162	0.016	90	1177446	16.0	15.4	
15 Pyridine	52	4.216	4.210	0.006	95	3310140	32.0	33.1	
35 Benzaldehyde	77	6.321	6.315	0.006	96	3409408	32.0	29.5	
37 Phenol	94	6.353	6.342	0.011	98	2871006	16.0	16.6	
36 Aniline	93	6.411	6.401	0.010	96	3437303	16.0	17.3	
39 Bis(2-chloroethyl)ether	93	6.443	6.433	0.010	95	2215036	16.0	15.7	
40 2-Chlorophenol	128	6.518	6.513	0.005	96	2573798	16.0	17.2	
41 n-Decane	57	6.524	6.518	0.006	92	2511242	16.0	16.7	
43 1,3-Dichlorobenzene	146	6.652	6.646	0.006	99	2948016	16.0	16.2	
44 1,4-Dichlorobenzene	146	6.711	6.705	0.006	95	3039559	16.0	16.3	
45 Benzyl alcohol	108	6.796	6.785	0.011	93	1546138	16.0	17.1	
46 1,2-Dichlorobenzene	146	6.849	6.844	0.005	98	2899598	16.0	16.5	
48 2-Methylphenol	108	6.871	6.865	0.006	95	2240140	16.0	17.0	
49 2,2'-oxybis[1-chloropropan	45	6.898	6.892	0.006	93	3159830	16.0	16.2	
47 Indene	115	6.919	6.919	0.000	95	13994188	80.0	55.7	e
57 4-Methylphenol	108	6.999	6.988	0.011	95	2346911	16.0	17.0	
53 N-Nitrosodi-n-propylamine	70	7.015	7.004	0.011	90	1667277	16.0	16.9	
52 Acetophenone	105	7.026	7.020	0.006	96	3233171	16.0	16.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.143	7.143	0.000	90	1144777	16.0	16.8	
59 Nitrobenzene	77	7.181	7.175	0.006	87	2464292	16.0	16.6	
62 Isophorone	82	7.378	7.368	0.010	98	4068427	16.0	16.6	
66 2,4-Dimethylphenol	107	7.448	7.442	0.006	87	2412631	16.0	17.1	
64 2-Nitrophenol	139	7.448	7.448	0.000	77	1446122	16.0	16.9	
69 Bis(2-chloroethoxy)methane	93	7.528	7.522	0.006	99	2729867	16.0	16.5	
70 Benzoic acid	105	7.613	7.533	0.080	75	8398004	80.0	84.0	Ma
72 2,4-Dichlorophenol	162	7.651	7.645	0.006	91	2305610	16.0	16.8	
73 1,2,4-Trichlorobenzene	180	7.731	7.725	0.006	94	2674958	16.0	16.6	
74 Naphthalene	128	7.806	7.806	0.000	99	7285905	16.0	16.0	
76 4-Chloroaniline	127	7.827	7.822	0.005	97	2550753	16.0	16.1	
77 2,6-Dichlorophenol	162	7.843	7.838	0.005	97	2292008	16.0	17.2	
79 Hexachlorobutadiene	225	7.897	7.896	0.001	95	1563833	16.0	16.9	
84 Caprolactam	113	8.164	8.115	0.049	81	1372151	32.0	35.3	
85 4-Chloro-3-methylphenol	107	8.217	8.201	0.016	93	1887233	16.0	17.3	
87 2-Methylnaphthalene	142	8.388	8.383	0.005	94	5139261	16.0	16.6	
89 1-Methylnaphthalene	142	8.474	8.473	0.001	92	4916516	16.0	16.6	
90 Hexachlorocyclopentadiene	237	8.522	8.516	0.006	95	1819870	16.0	17.1	
91 1,2,4,5-Tetrachlorobenzene	216	8.532	8.527	0.005	97	2862515	16.0	16.7	
93 2,4,6-Trichlorophenol	196	8.612	8.607	0.005	91	1798406	16.0	16.8	
94 2,4,5-Trichlorophenol	196	8.650	8.644	0.006	95	1696121	16.0	16.2	
96 1,1'-Biphenyl	154	8.767	8.767	0.000	97	6018141	16.0	16.2	
97 2-Chloronaphthalene	162	8.805	8.799	0.006	95	4916910	16.0	16.5	
100 2-Nitroaniline	65	8.869	8.863	0.006	89	1222685	16.0	16.4	
105 Dimethyl phthalate	163	8.997	8.986	0.011	99	5213163	16.0	16.4	
106 1,3-Dinitrobenzene	168	9.040	9.029	0.011	91	869551	16.0	17.4	
107 2,6-Dinitrotoluene	165	9.056	9.050	0.006	93	1274600	16.0	16.5	
108 Acenaphthylene	152	9.163	9.163	0.001	98	6827612	16.0	16.6	
109 3-Nitroaniline	138	9.216	9.205	0.011	96	1101935	16.0	21.2	
111 2,4-Dinitrophenol	184	9.302	9.291	0.011	84	1668864	32.0	34.5	
110 Acenaphthene	153	9.312	9.307	0.005	95	5248743	16.0	16.7	
112 4-Nitrophenol	109	9.323	9.307	0.016	91	1323847	32.0	32.8	a
114 2,4-Dinitrotoluene	165	9.403	9.398	0.005	95	1632567	16.0	16.7	
115 Dibenzofuran	168	9.451	9.446	0.005	96	6681729	16.0	16.1	
118 2,3,4,6-Tetrachlorophenol	232	9.542	9.536	0.006	70	1527942	16.0	17.5	
121 Hexadecane	57	9.569	9.563	0.006	96	2944043	16.0	16.9	
120 Diethyl phthalate	149	9.579	9.574	0.005	99	5195791	16.0	16.7	
123 4-Chlorophenyl phenyl ethe	204	9.713	9.707	0.006	88	2885151	16.0	16.8	
126 4-Nitroaniline	138	9.740	9.729	0.011	92	1038818	16.0	15.3	
124 Fluorene	166	9.745	9.739	0.006	93	5784192	16.0	16.8	
127 4,6-Dinitro-2-methylphenol	198	9.761	9.750	0.011	93	1966893	32.0	33.8	
129 Diphenylamine	169	9.809	9.804	0.005	93	3954469	13.7	14.6	
130 N-Nitrosodiphenylamine	169	9.809	9.804	0.005	100	3954469	16.0	17.1	
131 1,2-Diphenylhydrazine	77	9.846	9.841	0.005	96	4843084	16.0	16.4	
132 Azobenzene	77	9.846	9.841	0.005	98	4843084	16.0	16.4	
139 4-Bromophenyl phenyl ether	248	10.130	10.129	0.001	63	1728028	16.0	17.6	
140 Hexachlorobenzene	284	10.220	10.215	0.005	94	1892422	16.0	17.9	
143 Atrazine	200	10.231	10.220	0.011	96	3087774	32.0	33.5	
148 n-Octadecane	57	10.338	10.338	0.000	96	2913374	16.0	17.6	
145 Pentachlorophenol	266	10.375	10.364	0.011	93	2304214	32.0	35.0	
151 Phenanthrene	178	10.568	10.562	0.006	97	7666781	16.0	15.7	eM
152 Anthracene	178	10.610	10.605	0.005	98	7749860	16.0	16.0	ea

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.723	10.717	0.006	96	4716047	16.0	17.0	
157 Di-n-butyl phthalate	149	10.947	10.941	0.006	100	7669374	16.0	16.2	e
164 Fluoranthene	202	11.636	11.631	0.005	98	8372130	16.0	16.4	
166 Benzidine	184	11.722	11.716	0.006	99	6826803	32.0	36.6	
167 Pyrene	202	11.882	11.876	0.006	95	8535547	16.0	15.6	
174 Butyl benzyl phthalate	149	12.496	12.491	0.005	97	3674120	16.0	16.6	
181 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	95	5212397	16.0	16.4	
179 3,3'-Dichlorobenzidine	252	13.281	13.265	0.016	73	5304477	32.0	38.4	
180 Benzo[a]anthracene	228	13.362	13.351	0.011	99	8230469	16.0	15.9	
182 Chrysene	228	13.420	13.409	0.011	96	7621087	16.0	15.5	
184 Di-n-octyl phthalate	149	14.227	14.221	0.006	99	8568011	16.0	16.8	
186 Benzo[b]fluoranthene	252	15.044	15.028	0.016	97	8002366	16.0	16.9	
187 Benzo[k]fluoranthene	252	15.087	15.071	0.016	98	8075034	16.0	16.6	
189 Benzo[a]pyrene	252	15.595	15.578	0.017	78	7505165	16.0	16.9	
193 Indeno[1,2,3-cd]pyrene	276	17.678	17.640	0.038	98	8848467	16.0	17.4	
194 Dibenz(a,h)anthracene	278	17.689	17.651	0.038	92	7371533	16.0	17.5	
195 Benzo[g,h,i]perylene	276	18.266	18.228	0.038	96	7208436	16.0	17.1	
S 261 Total Cresols	1				0			34.0	
S 262 3 & 4 Methylphenol	108				0			17.0	
S 263 3-Methylphenol	1				0			17.0	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00305

Amount Added: 1.00

Units: mL

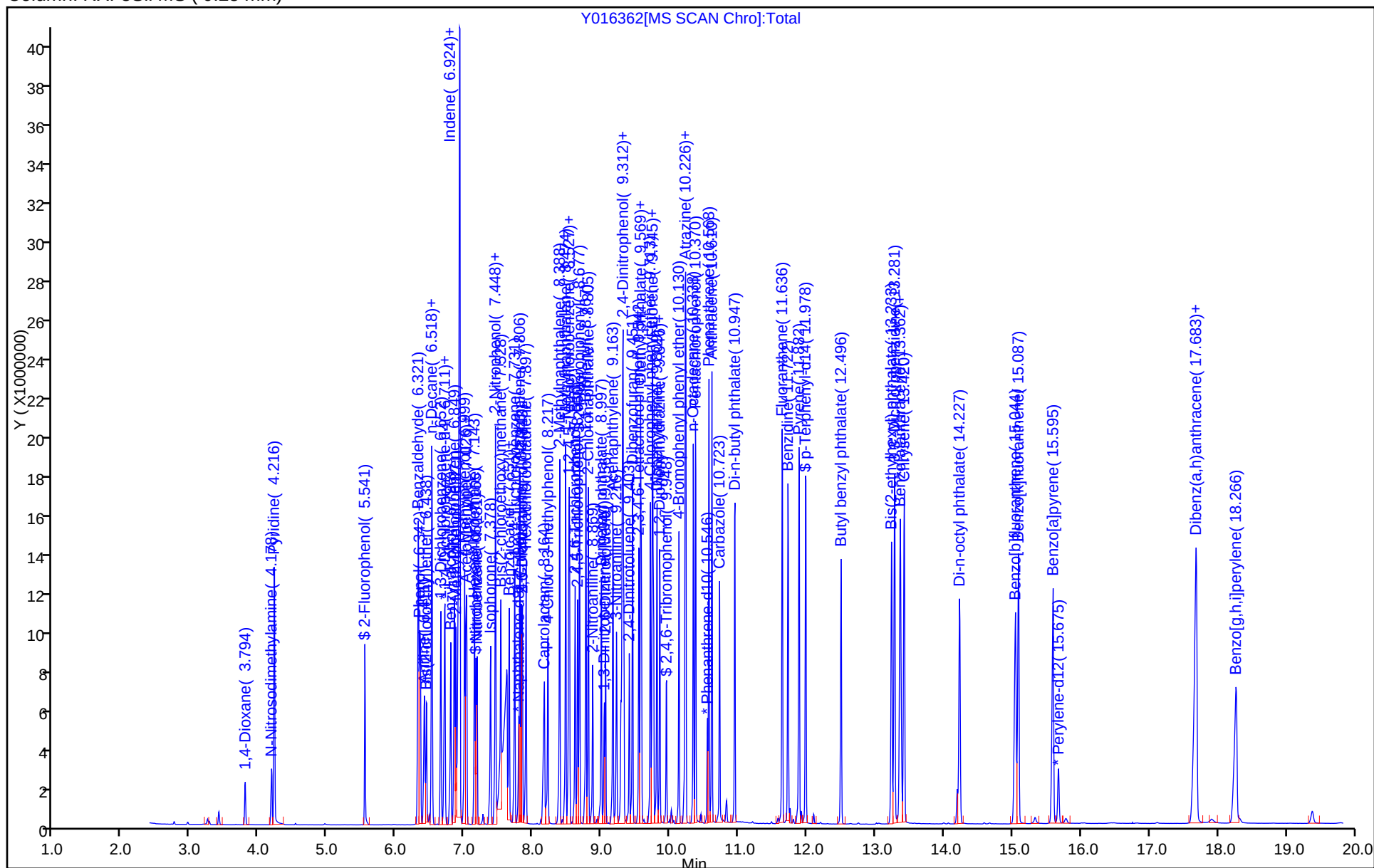
MB_LLIS_WRK_00143

Amount Added: 20.00

Units: uL

Run Reagent

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D

Injection Date: 08-Mar-2018 18:44:30

Instrument ID: HP5973Y

Lims ID: IC - List 1 16.0

Client ID:

Operator ID: BS

ALS Bottle#:

12

Worklist Smp#: 12

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

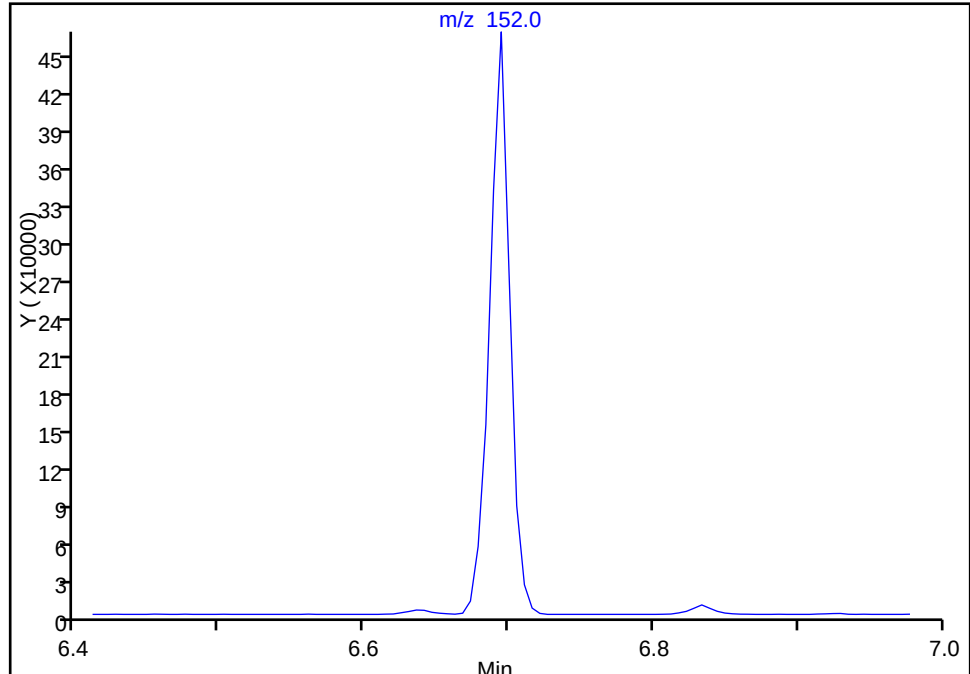
* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

Not Detected

Expected RT: 6.69

Processing Integration Results



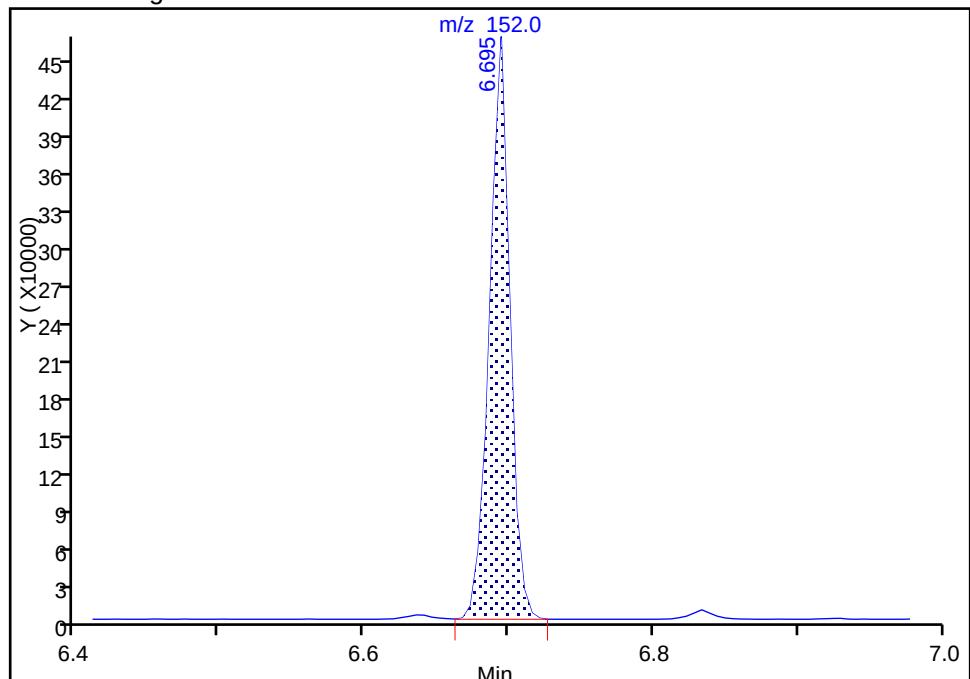
RT: 6.69

Area: 452326

Amount: 4.000000

Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 09-Mar-2018 06:58:24

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D

Injection Date: 08-Mar-2018 18:44:30

Instrument ID: HP5973Y

Lims ID: IC - List 1 16.0

Client ID:

Operator ID: BS

ALS Bottle#:

12

Worklist Smp#: 12

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

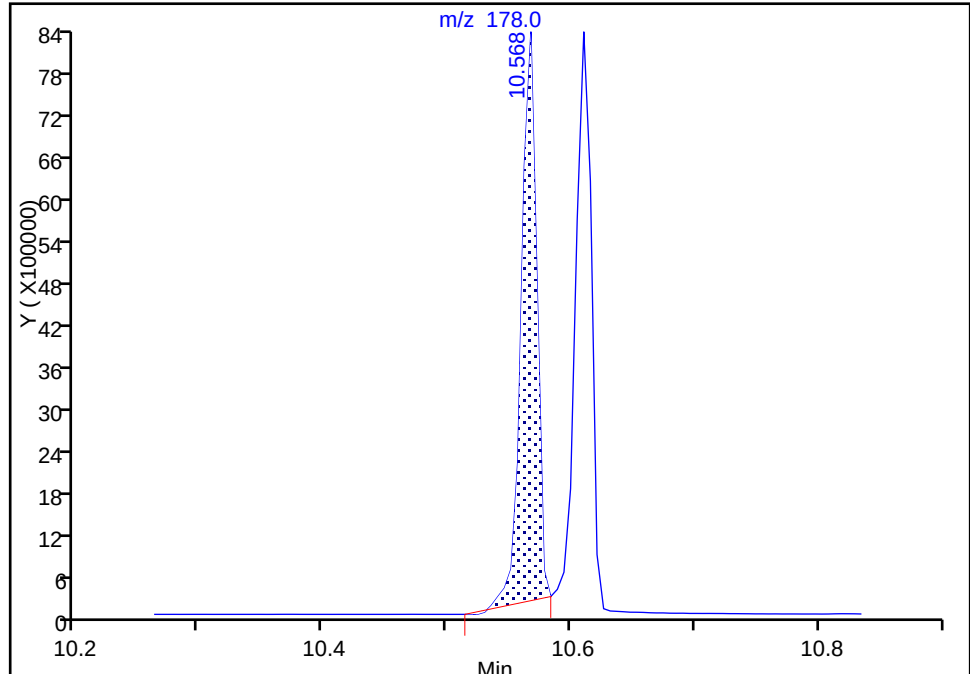
MS SCAN

151 Phenanthrene, CAS: 85-01-8

Signal: 1

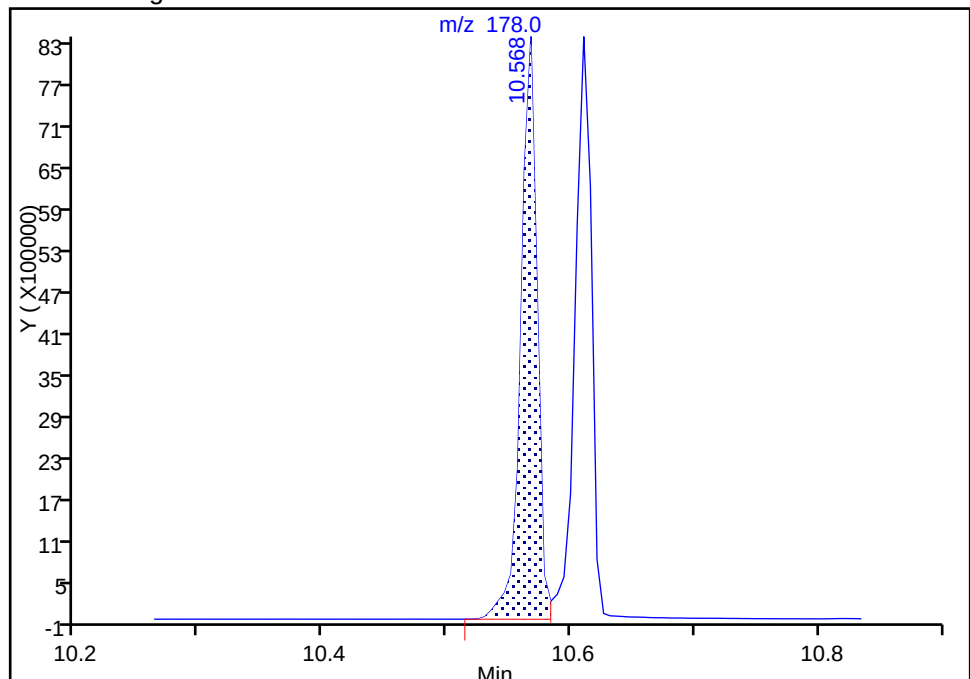
RT: 10.57
Area: 7088835
Amount: 14.685469
Amount Units: ng/uL

Processing Integration Results



RT: 10.57
Area: 7666781
Amount: 15.735573
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 09-Mar-2018 06:59:14

Audit Action: Assigned New Baseline

Audit Reason: Baseline

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D

Injection Date: 08-Mar-2018 18:44:30

Instrument ID: HP5973Y

Lims ID: IC - List 1 16.0

Client ID:

Operator ID: BS

ALS Bottle#:

12

Worklist Smp#: 12

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

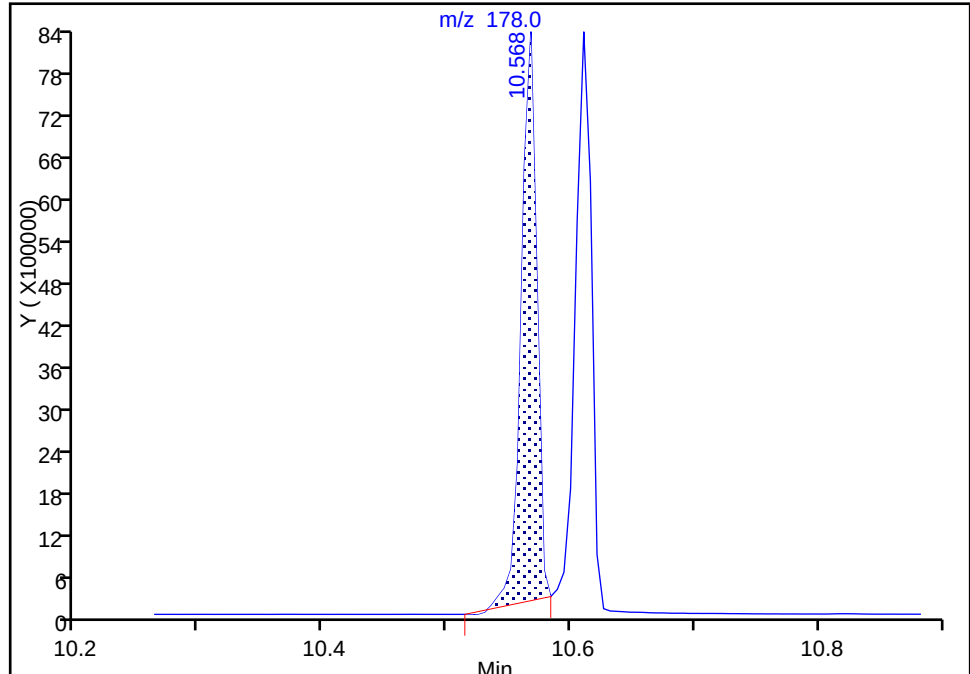
Detector: MS SCAN

152 Anthracene, CAS: 120-12-7

Signal: 1

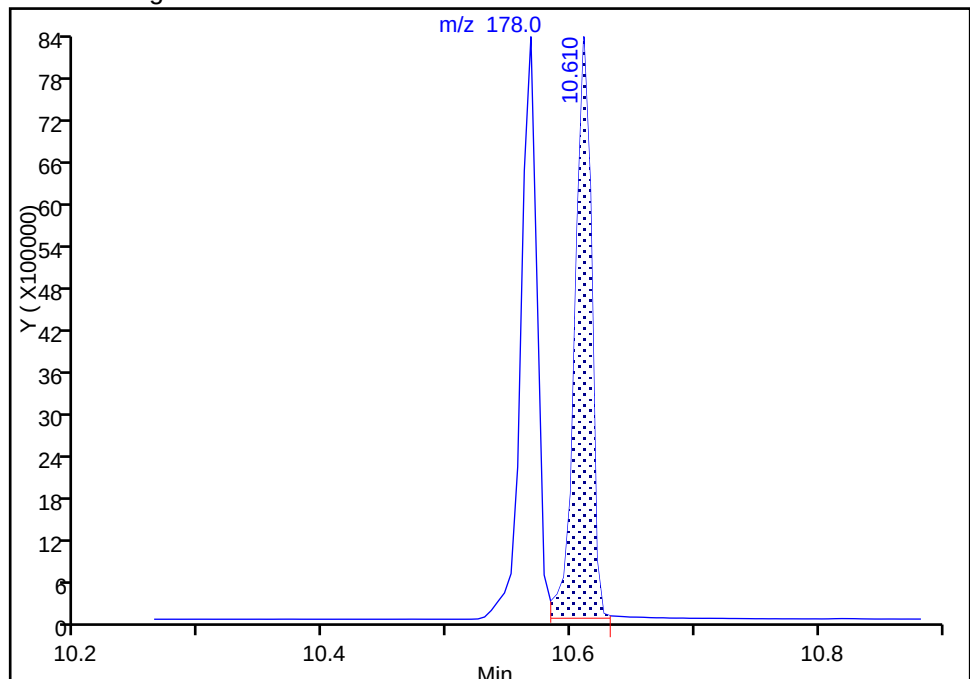
RT: 10.57
Area: 7088835
Amount: 14.825500
Amount Units: ng/uL

Processing Integration Results



RT: 10.61
Area: 7749860
Amount: 16.034776
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 09-Mar-2018 06:59:20

Audit Action: Assigned Compound ID

Audit Reason: Baseline

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab Sample ID (1): CCVIS 480-409652/3 Instrument ID (1): HP5973Y
GC Column (1): RXI-5Sil MS ID: 0.25 (mm) Date Analyzed (1): 04/20/2018 01:20

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.93	20.30

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab Sample ID (1): CCVIS 480-410140/4 Instrument ID (1): HP5973W
GC Column (1): RXI-5Sil MS ID: 0.25 (mm) Date Analyzed (1): 04/21/2018 14:47

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.37	22.10

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Lab Sample ID (1): CCVIS 480-410190/3 Instrument ID (1): HP5973W
GC Column (1): RXI-5Sil MS ID: 0.25 (mm) Date Analyzed (1): 04/22/2018 12:14

ANALYTE	RT	RESOLUTION (%)
Benzo(b)fluoranthene	14.36	22.40

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410140/4 Calibration Date: 04/21/2018 14:47
 Instrument ID: HP5973W Calib Start Date: 04/17/2018 17:42
 GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 04/17/2018 21:02
 Lab File ID: W3500.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.077	1.158	0.7000	4300	4000	7.5	20.0
2-Methylnaphthalene	Ave	0.7523	0.7857	0.4000	4180	4000	4.4	20.0
1-Methylnaphthalene	Ave	0.7182	0.7378	0.0100	4110	4000	2.7	20.0
Acenaphthylene	Ave	1.905	2.080	0.9000	4370	4000	9.2	20.0
Acenaphthene	Ave	1.431	1.454	0.9000	4060	4000	1.6	20.0
Dibenzofuran	Ave	1.852	1.967	0.8000	4250	4000	6.2	20.0
Fluorene	Ave	1.532	1.581	0.9000	4130	4000	3.2	20.0
Phenanthrene	Ave	1.224	1.260	0.7000	4120	4000	3.0	20.0
Anthracene	Ave	1.216	1.310	0.7000	4310	4000	7.7	20.0
Fluoranthene	Ave	1.160	1.227	0.6000	4230	4000	5.8	20.0
Pyrene	Ave	1.466	1.506	0.6000	4110	4000	2.8	20.0
Benzo (a) anthracene	Ave	1.342	1.346	0.8000	4010	4000	0.3	20.0
Chrysene	Ave	1.277	1.287	0.7000	4030	4000	0.7	20.0
Benzo (b) fluoranthene	Ave	1.279	1.276	0.7000	3990	4000	-0.2	20.0
Benzo (k) fluoranthene	Ave	1.297	1.349	0.7000	4160	4000	4.0	20.0
Benzo (a) pyrene	Lin2		1.261	0.7000	4040	4000	1.1	20.0
Indeno (1,2,3-cd) pyrene	Ave	1.444	1.505	0.5000	4170	4000	4.3	20.0
Dibenz (a,h) anthracene	Ave	1.229	1.292	0.4000	4210	4000	5.1	20.0
Benzo (g,h,i) perylene	Ave	1.233	1.254	0.5000	4070	4000	1.7	20.0
2-Fluorophenol	Ave	1.303	1.360	0.0100	4.18	4.00	4.4	20.0
Phenol-d5	Ave	1.644	1.693	0.0100	4.12	4.00	3.0	20.0
Nitrobenzene-d5	Lin1		0.4025	0.0100	4310	4000	7.7	20.0
2-Fluorobiphenyl	Ave	1.462	1.538	0.0100	4210	4000	5.2	20.0
2,4,6-Tribromophenol	Lin1		0.0886	0.0100	3.87	4.00	-3.4	20.0
p-Terphenyl-d14	Ave	0.8919	0.8831	0.0100	3960	4000	-1.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3500.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Apr-2018 14:47:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-004
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 21-Apr-2018 15:12:14 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: quirkp

Date: 21-Apr-2018 15:12:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	468478	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1848795	4.00	4.00	
* 3 Acenaphthene-d10	164	8.961	8.961	0.000	96	887413	4.00	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1481540	4.00	4.00	
* 5 Chrysene-d12	240	12.828	12.828	0.000	99	1228405	4.00	4.00	
* 6 Perylene-d12	264	14.965	14.965	0.000	97	1216500	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.248	5.248	0.000	92	637277	4.00	4.18	
\$ 8 Phenol-d5	99	6.060	6.060	0.000	0	792923	4.00	4.12	
\$ 9 Nitrobenzene-d5	82	6.866	6.866	0.000	88	744129	4.00	4.31	
\$ 10 2-Fluorobiphenyl	172	8.368	8.368	0.000	100	1364921	4.00	4.21	
\$ 11 2,4,6-Tribromophenol	330	9.618	9.618	0.000	92	131318	4.00	3.87	
\$ 12 p-Terphenyl-d14	244	11.562	11.562	0.000	99	1084770	4.00	3.96	
14 1,4-Dioxane	88	3.378	3.378	0.000	96	299836	4.00	4.07	
15 N-Nitrosodimethylamine	42	3.800	3.800	0.000	95	351370	4.00	3.93	
16 Pyridine	52	3.837	3.837	0.000	94	1139206	8.00	8.00	
36 Benzaldehyde	77	6.022	6.022	0.000	94	1002323	8.00	8.25	
37 Phenol	94	6.070	6.070	0.000	98	904641	4.00	4.04	
38 Aniline	93	6.113	6.113	0.000	98	1062373	4.00	4.07	
40 Bis(2-chloroethyl)ether	93	6.151	6.151	0.000	97	742352	4.00	3.94	
41 2-Chlorophenol	128	6.220	6.220	0.000	96	726439	4.00	4.01	
43 n-Decane	57	6.231	6.231	0.000	93	821505	4.00	3.97	
44 1,3-Dichlorobenzene	146	6.348	6.348	0.000	99	857858	4.00	4.08	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	96	876006	4.00	4.09	
46 Benzyl alcohol	108	6.503	6.503	0.000	95	459675	4.00	3.93	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	98	817937	4.00	4.04	
49 2-Methylphenol	108	6.589	6.589	0.000	94	672743	4.00	4.00	
50 2,2'-oxybis[1-chloropropan	45	6.605	6.605	0.000	93	1024492	4.00	3.87	
48 Indene	115	6.621	6.621	0.000	91	5079363	20.0	19.8	
56 4-Methylphenol	108	6.712	6.712	0.000	97	708870	4.00	4.00	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	90	488352	4.00	3.86	
53 Acetophenone	105	6.728	6.728	0.000	97	1004418	4.00	4.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.840	6.840	0.000	96	313232	4.00	4.02	
61 Nitrobenzene	77	6.882	6.882	0.000	87	748132	4.00	4.08	
63 Isophorone	82	7.075	7.075	0.000	99	1275798	4.00	4.19	
67 2-Nitrophenol	139	7.150	7.150	0.000	93	395767	4.00	4.04	
68 2,4-Dimethylphenol	107	7.160	7.160	0.000	94	714290	4.00	4.09	
71 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	99	838412	4.00	4.06	
72 Benzoic acid	105	7.262	7.262	0.000	88	1325913	20.0	18.7	M
74 2,4-Dichlorophenol	162	7.353	7.353	0.000	92	600585	4.00	4.03	
75 1,2,4-Trichlorobenzene	180	7.427	7.427	0.000	94	650777	4.00	4.07	
76 Naphthalene	128	7.502	7.502	0.000	97	2140239	4.00	4.30	
78 4-Chloroaniline	127	7.529	7.529	0.000	96	833387	4.00	4.04	
79 2,6-Dichlorophenol	162	7.540	7.540	0.000	98	599137	4.00	4.19	
81 Hexachlorobutadiene	225	7.593	7.593	0.000	98	330838	4.00	4.07	
84 Caprolactam	113	7.823	7.823	0.000	80	372451	8.00	8.09	
87 4-Chloro-3-methylphenol	107	7.914	7.914	0.000	96	582656	4.00	4.03	
89 2-Methylnaphthalene	142	8.074	8.074	0.000	92	1452609	4.00	4.18	
91 1-Methylnaphthalene	142	8.165	8.165	0.000	93	1363975	4.00	4.11	
93 Hexachlorocyclopentadiene	237	8.207	8.207	0.000	95	302290	4.00	3.53	
92 1,2,4,5-Tetrachlorobenzene	216	8.218	8.218	0.000	98	580318	4.00	4.08	
94 2,4,6-Trichlorophenol	196	8.304	8.304	0.000	92	373831	4.00	3.92	
95 2,4,5-Trichlorophenol	196	8.341	8.341	0.000	96	396402	4.00	3.97	
97 1,1'-Biphenyl	154	8.458	8.458	0.000	95	1657854	4.00	4.25	
98 2-Chloronaphthalene	162	8.490	8.490	0.000	96	1283702	4.00	4.17	
100 2-Nitroaniline	65	8.560	8.560	0.000	88	362771	4.00	4.03	
104 Dimethyl phthalate	163	8.683	8.683	0.000	99	1360439	4.00	4.12	
105 1,3-Dinitrobenzene	168	8.726	8.726	0.000	89	234652	4.00	3.97	
106 2,6-Dinitrotoluene	165	8.747	8.747	0.000	94	331482	4.00	4.08	
107 Acenaphthylene	152	8.843	8.843	0.000	98	1845676	4.00	4.37	
108 3-Nitroaniline	138	8.896	8.896	0.000	97	363115	4.00	3.97	
110 2,4-Dinitrophenol	184	8.982	8.982	0.000	84	308341	8.00	8.16	
109 Acenaphthene	153	8.987	8.987	0.000	94	1290089	4.00	4.06	
111 4-Nitrophenol	109	9.019	9.019	0.000	85	303522	8.00	7.62	
113 2,4-Dinitrotoluene	165	9.089	9.089	0.000	96	422162	4.00	4.07	
114 Dibenzofuran	168	9.126	9.126	0.000	96	1745910	4.00	4.25	
117 2,3,4,6-Tetrachlorophenol	232	9.228	9.228	0.000	75	264312	4.00	4.04	
120 Hexadecane	57	9.260	9.260	0.000	94	857996	4.00	3.97	
119 Diethyl phthalate	149	9.265	9.265	0.000	99	1347413	4.00	4.13	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.393	0.000	92	636419	4.00	4.00	
125 4-Nitroaniline	138	9.415	9.415	0.000	94	376144	4.00	3.87	
123 Fluorene	166	9.415	9.415	0.000	94	1402825	4.00	4.13	
126 4,6-Dinitro-2-methylphenol	198	9.436	9.436	0.000	88	389977	8.00	8.11	
129 N-Nitrosodiphenylamine	169	9.484	9.484	0.000	99	1002655	4.00	4.06	
128 Diphenylamine	169	9.484	9.484	0.000	95	1002655	3.42	3.47	
130 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	100	1357977	4.00	4.11	
131 Azobenzene	77	9.527	9.527	0.000	98	1357977	4.00	4.08	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	67	341103	4.00	3.95	
138 Hexachlorobenzene	284	9.890	9.890	0.000	92	345656	4.00	3.89	
141 Atrazine	200	9.906	9.906	0.000	94	608847	8.00	8.46	
146 n-Octadecane	57	10.024	10.024	0.000	96	831377	4.00	3.95	
143 Pentachlorophenol	266	10.045	10.045	0.000	91	308496	8.00	8.16	
149 Phenanthrene	178	10.227	10.227	0.000	98	1866922	4.00	4.12	
150 Anthracene	178	10.269	10.269	0.000	99	1940329	4.00	4.31	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.392	10.392	0.000	96	1696595	4.00	4.24	
154 Di-n-butyl phthalate	149	10.617	10.617	0.000	100	2115838	4.00	4.50	
161 Fluoranthene	202	11.242	11.242	0.000	99	1818446	4.00	4.23	
164 Benzidine	184	11.327	11.327	0.000	99	1581215	8.00	7.74	
165 Pyrene	202	11.466	11.466	0.000	96	1850441	4.00	4.11	
172 Butyl benzyl phthalate	149	12.038	12.038	0.000	97	913051	4.00	4.03	
180 Bis(2-ethylhexyl) phthalat	149	12.711	12.711	0.000	96	1267980	4.00	4.03	
177 3,3'-Dichlorobenzidine	252	12.738	12.738	0.000	74	1042263	8.00	7.79	
179 Benzo[a]anthracene	228	12.812	12.812	0.000	99	1652938	4.00	4.01	
181 Chrysene	228	12.860	12.860	0.000	97	1580738	4.00	4.03	
184 Di-n-octyl phthalate	149	13.630	13.630	0.000	99	2151879	4.00	4.22	
186 Benzo[b]fluoranthene	252	14.367	14.367	0.000	98	1552818	4.00	3.99	
187 Benzo[k]fluoranthene	252	14.404	14.404	0.000	98	1641369	4.00	4.16	
189 Benzo[a]pyrene	252	14.880	14.880	0.000	80	1533444	4.00	4.04	
193 Indeno[1,2,3-cd]pyrene	276	16.696	16.696	0.000	97	1831299	4.00	4.17	
194 Dibenz(a,h)anthracene	278	16.707	16.707	0.000	92	1571454	4.00	4.21	
195 Benzo[g,h,i]perylene	276	17.188	17.188	0.000	95	1525383	4.00	4.07	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00311

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3500.D

Injection Date: 21-Apr-2018 14:47:30

Instrument ID: HP5973W

Operator ID: PJO

Lims ID: CCVIS

Worklist Smp#: 4

Client ID:

Injection Vol: 2.0 ul

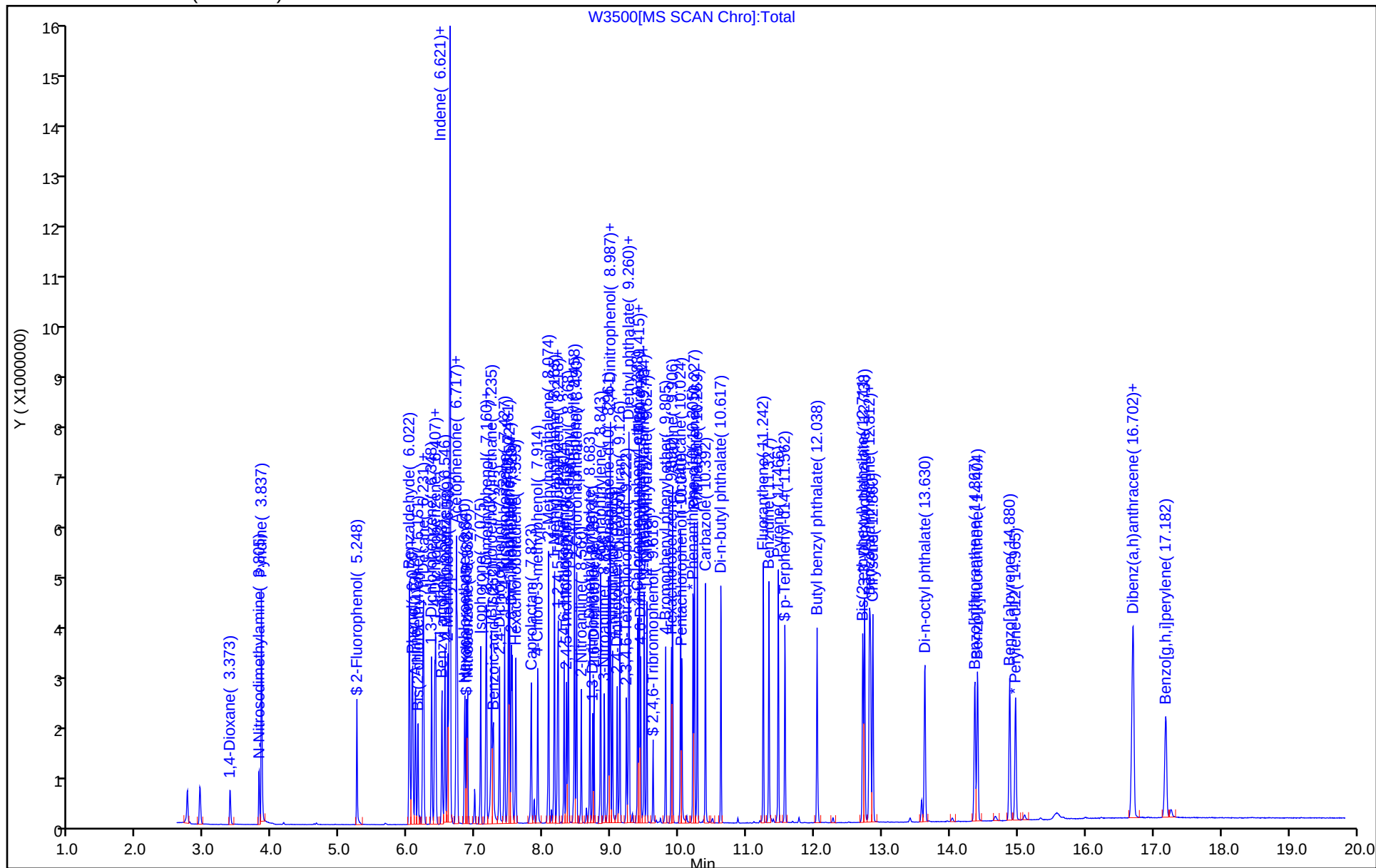
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-410190/3 Calibration Date: 04/22/2018 12:14
 Instrument ID: HP5973W Calib Start Date: 04/17/2018 17:42
 GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 04/17/2018 21:02
 Lab File ID: W3527.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.077	1.143	0.7000	4250	4000	6.2	20.0
2-Methylnaphthalene	Ave	0.7523	0.7824	0.4000	4160	4000	4.0	20.0
1-Methylnaphthalene	Ave	0.7182	0.7310	0.0100	4070	4000	1.8	20.0
Acenaphthylene	Ave	1.905	2.067	0.9000	4340	4000	8.5	20.0
Acenaphthene	Ave	1.431	1.482	0.9000	4140	4000	3.6	20.0
Dibenzofuran	Ave	1.852	1.975	0.8000	4260	4000	6.6	20.0
Fluorene	Ave	1.532	1.599	0.9000	4170	4000	4.3	20.0
Phenanthrene	Ave	1.224	1.302	0.7000	4250	4000	6.4	20.0
Anthracene	Ave	1.216	1.332	0.7000	4380	4000	9.6	20.0
Fluoranthene	Ave	1.160	1.235	0.6000	4260	4000	6.5	20.0
Pyrene	Ave	1.466	1.575	0.6000	4300	4000	7.4	20.0
Benzo (a) anthracene	Ave	1.342	1.381	0.8000	4120	4000	2.9	20.0
Chrysene	Ave	1.277	1.298	0.7000	4060	4000	1.6	20.0
Benzo (b) fluoranthene	Ave	1.279	1.326	0.7000	4150	4000	3.6	20.0
Benzo (k) fluoranthene	Ave	1.297	1.303	0.7000	4020	4000	0.4	20.0
Benzo (a) pyrene	Lin2		1.271	0.7000	4080	4000	1.9	20.0
Indeno (1,2,3-cd) pyrene	Ave	1.444	1.494	0.5000	4140	4000	3.5	20.0
Dibenz (a,h) anthracene	Ave	1.229	1.314	0.4000	4280	4000	7.0	20.0
Benzo (g,h,i) perylene	Ave	1.233	1.273	0.5000	4130	4000	3.2	20.0
2-Fluorophenol	Ave	1.303	1.323	0.0100	4.06	4.00	1.6	20.0
Phenol-d5	Ave	1.644	1.647	0.0100	4.01	4.00	0.2	20.0
Nitrobenzene-d5	Lin1		0.3496	0.0100	3740	4000	-6.4	20.0
2-Fluorobiphenyl	Ave	1.462	1.547	0.0100	4230	4000	5.8	20.0
2,4,6-Tribromophenol	Lin1		0.0950	0.0100	4.13	4.00	3.3	20.0
p-Terphenyl-d14	Ave	0.8919	0.9183	0.0100	4120	4000	3.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3527.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 22-Apr-2018 12:14:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070851-003
 Operator ID: PJQ Instrument ID: HP5973W
 Sublist: chrom-W-LVI-8270*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 23-Apr-2018 11:10:36 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: quirkp

Date: 23-Apr-2018 11:10:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.391	6.391	0.000	95	466185	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1822577	4.00	4.00	
* 3 Acenaphthene-d10	164	8.960	8.960	0.000	96	854054	4.00	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1404685	4.00	4.00	
* 5 Chrysene-d12	240	12.823	12.823	0.000	99	1147910	4.00	4.00	
* 6 Perylene-d12	264	14.965	14.965	0.000	97	1123710	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.242	5.242	0.000	92	616700	4.00	4.06	
\$ 8 Phenol-d5	99	6.054	6.054	0.000	0	767933	4.00	4.01	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	0.000	88	637206	4.00	3.74	
\$ 10 2-Fluorobiphenyl	172	8.368	8.368	0.000	99	1320887	4.00	4.23	
\$ 11 2,4,6-Tribromophenol	330	9.618	9.618	0.000	93	133412	4.00	4.13	
\$ 12 p-Terphenyl-d14	244	11.562	11.562	0.000	99	1054159	4.00	4.12	
14 1,4-Dioxane	88	3.373	3.373	0.000	97	296402	4.00	4.05	
15 N-Nitrosodimethylamine	42	3.795	3.795	0.000	94	335991	4.00	3.78	
16 Pyridine	52	3.837	3.837	0.000	95	1120194	8.00	7.90	
36 Benzaldehyde	77	6.017	6.017	0.000	94	967694	8.00	8.00	
37 Phenol	94	6.070	6.070	0.000	98	896370	4.00	4.03	
38 Aniline	93	6.108	6.108	0.000	98	1038997	4.00	4.00	
40 Bis(2-chloroethyl)ether	93	6.145	6.145	0.000	98	718616	4.00	3.83	
41 2-Chlorophenol	128	6.215	6.215	0.000	97	712921	4.00	3.96	
43 n-Decane	57	6.225	6.225	0.000	92	804112	4.00	3.91	
44 1,3-Dichlorobenzene	146	6.348	6.348	0.000	99	852064	4.00	4.08	
45 1,4-Dichlorobenzene	146	6.407	6.407	0.000	96	867826	4.00	4.07	
46 Benzyl alcohol	108	6.498	6.498	0.000	95	446811	4.00	3.84	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	98	800045	4.00	3.97	
49 2-Methylphenol	108	6.583	6.583	0.000	92	659246	4.00	3.94	
50 2,2'-oxybis[1-chloropropan	45	6.605	6.605	0.000	95	999054	4.00	3.79	
48 Indene	115	6.621	6.621	0.000	91	4939614	20.0	19.6	
56 4-Methylphenol	108	6.711	6.711	0.000	96	686881	4.00	3.89	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	91	463362	4.00	3.69	
53 Acetophenone	105	6.727	6.727	0.000	97	968976	4.00	3.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.834	6.834	0.000	98	308001	4.00	3.97	
61 Nitrobenzene	77	6.877	6.877	0.000	86	716411	4.00	3.96	
63 Isophorone	82	7.075	7.075	0.000	99	1215420	4.00	4.05	
67 2-Nitrophenol	139	7.149	7.149	0.000	93	380996	4.00	3.95	
68 2,4-Dimethylphenol	107	7.160	7.160	0.000	94	692951	4.00	4.02	
71 Bis(2-chloroethoxy)methane	93	7.230	7.230	0.000	99	809729	4.00	3.98	
72 Benzoic acid	105	7.262	7.262	0.000	0	1167708	20.0	17.1	M
74 2,4-Dichlorophenol	162	7.352	7.352	0.000	92	582442	4.00	3.96	
75 1,2,4-Trichlorobenzene	180	7.427	7.427	0.000	95	633668	4.00	4.02	
76 Naphthalene	128	7.497	7.497	0.000	98	2083528	4.00	4.25	
78 4-Chloroaniline	127	7.523	7.523	0.000	97	837275	4.00	4.11	
79 2,6-Dichlorophenol	162	7.539	7.539	0.000	98	584746	4.00	4.15	
81 Hexachlorobutadiene	225	7.593	7.593	0.000	97	328475	4.00	4.10	
84 Caprolactam	113	7.823	7.823	0.000	81	351684	8.00	7.76	
87 4-Chloro-3-methylphenol	107	7.913	7.913	0.000	96	564593	4.00	3.97	
89 2-Methylnaphthalene	142	8.074	8.074	0.000	93	1426055	4.00	4.16	
91 1-Methylnaphthalene	142	8.159	8.159	0.000	93	1332221	4.00	4.07	
93 Hexachlorocyclopentadiene	237	8.207	8.207	0.000	94	336656	4.00	4.06	
92 1,2,4,5-Tetrachlorobenzene	216	8.218	8.218	0.000	98	568389	4.00	4.15	
94 2,4,6-Trichlorophenol	196	8.303	8.303	0.000	91	372129	4.00	4.05	
95 2,4,5-Trichlorophenol	196	8.341	8.341	0.000	95	385801	4.00	4.01	
97 1,1'-Biphenyl	154	8.458	8.458	0.000	95	1605199	4.00	4.28	
98 2-Chloronaphthalene	162	8.490	8.490	0.000	96	1242958	4.00	4.19	
100 2-Nitroaniline	65	8.560	8.560	0.000	89	338022	4.00	3.91	
104 Dimethyl phthalate	163	8.683	8.683	0.000	99	1312525	4.00	4.13	
105 1,3-Dinitrobenzene	168	8.725	8.725	0.000	90	225693	4.00	3.88	
106 2,6-Dinitrotoluene	165	8.747	8.747	0.000	94	314473	4.00	4.03	
107 Acenaphthylene	152	8.843	8.843	0.000	98	1765267	4.00	4.34	
108 3-Nitroaniline	138	8.896	8.896	0.000	97	350025	4.00	3.98	
110 2,4-Dinitrophenol	184	8.982	8.982	0.000	85	291755	8.00	8.05	
109 Acenaphthene	153	8.987	8.987	0.000	94	1265850	4.00	4.14	
111 4-Nitrophenol	109	9.019	9.019	0.000	84	300028	8.00	7.82	
113 2,4-Dinitrotoluene	165	9.089	9.089	0.000	95	400758	4.00	4.01	
114 Dibenzofuran	168	9.126	9.126	0.000	96	1686438	4.00	4.26	
117 2,3,4,6-Tetrachlorophenol	232	9.222	9.222	0.000	75	260234	4.00	4.13	
120 Hexadecane	57	9.260	9.260	0.000	94	828276	4.00	3.98	
119 Diethyl phthalate	149	9.265	9.265	0.000	99	1288504	4.00	4.11	
122 4-Chlorophenyl phenyl ethe	204	9.388	9.388	0.000	93	625193	4.00	4.08	
125 4-Nitroaniline	138	9.415	9.415	0.000	93	359844	4.00	3.85	
123 Fluorene	166	9.415	9.415	0.000	93	1365260	4.00	4.17	
126 4,6-Dinitro-2-methylphenol	198	9.436	9.436	0.000	89	371313	8.00	8.14	
128 Diphenylamine	169	9.484	9.484	0.000	94	974011	3.42	3.55	
129 N-Nitrosodiphenylamine	169	9.484	9.484	0.000	99	974011	4.00	4.16	
131 Azobenzene	77	9.521	9.521	0.000	98	1290267	4.00	4.09	
130 1,2-Diphenylhydrazine	77	9.521	9.521	0.000	100	1290267	4.00	4.06	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	66	325642	4.00	3.98	
138 Hexachlorobenzene	284	9.890	9.890	0.000	92	338195	4.00	4.02	
141 Atrazine	200	9.906	9.906	0.000	94	581134	8.00	8.39	
146 n-Octadecane	57	10.024	10.024	0.000	95	783405	4.00	3.92	
143 Pentachlorophenol	266	10.040	10.040	0.000	91	302420	8.00	8.42	
149 Phenanthrene	178	10.227	10.227	0.000	98	1828265	4.00	4.25	
150 Anthracene	178	10.269	10.269	0.000	98	1871677	4.00	4.38	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.387	10.387	0.000	96	1638986	4.00	4.32	
154 Di-n-butyl phthalate	149	10.617	10.617	0.000	100	1995098	4.00	4.47	
161 Fluoranthene	202	11.242	11.242	0.000	99	1735121	4.00	4.26	
164 Benzidine	184	11.327	11.327	0.000	99	1537731	8.00	8.05	
165 Pyrene	202	11.466	11.466	0.000	97	1807395	4.00	4.30	
172 Butyl benzyl phthalate	149	12.038	12.038	0.000	97	848788	4.00	4.01	
180 Bis(2-ethylhexyl) phthalat	149	12.711	12.711	0.000	96	1181873	4.00	4.02	
177 3,3'-Dichlorobenzidine	252	12.737	12.737	0.000	74	970882	8.00	7.77	
179 Benzo[a]anthracene	228	12.807	12.807	0.000	99	1585599	4.00	4.12	
181 Chrysene	228	12.860	12.860	0.000	97	1489795	4.00	4.06	
184 Di-n-octyl phthalate	149	13.624	13.624	0.000	99	1965206	4.00	4.13	
186 Benzo[b]fluoranthene	252	14.362	14.362	0.000	98	1490026	4.00	4.15	
187 Benzo[k]fluoranthene	252	14.404	14.404	0.000	98	1464235	4.00	4.02	
189 Benzo[a]pyrene	252	14.874	14.874	0.000	79	1428000	4.00	4.08	
193 Indeno[1,2,3-cd]pyrene	276	16.685	16.685	0.000	94	1678905	4.00	4.14	
194 Dibenz(a,h)anthracene	278	16.701	16.701	0.000	92	1477049	4.00	4.28	
195 Benzo[g,h,i]perylene	276	17.177	17.177	0.000	96	1429988	4.00	4.13	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00311

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3527.D

Injection Date: 22-Apr-2018 12:14:30

Instrument ID: HP5973W

Operator ID: PJO

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 2.0 ul

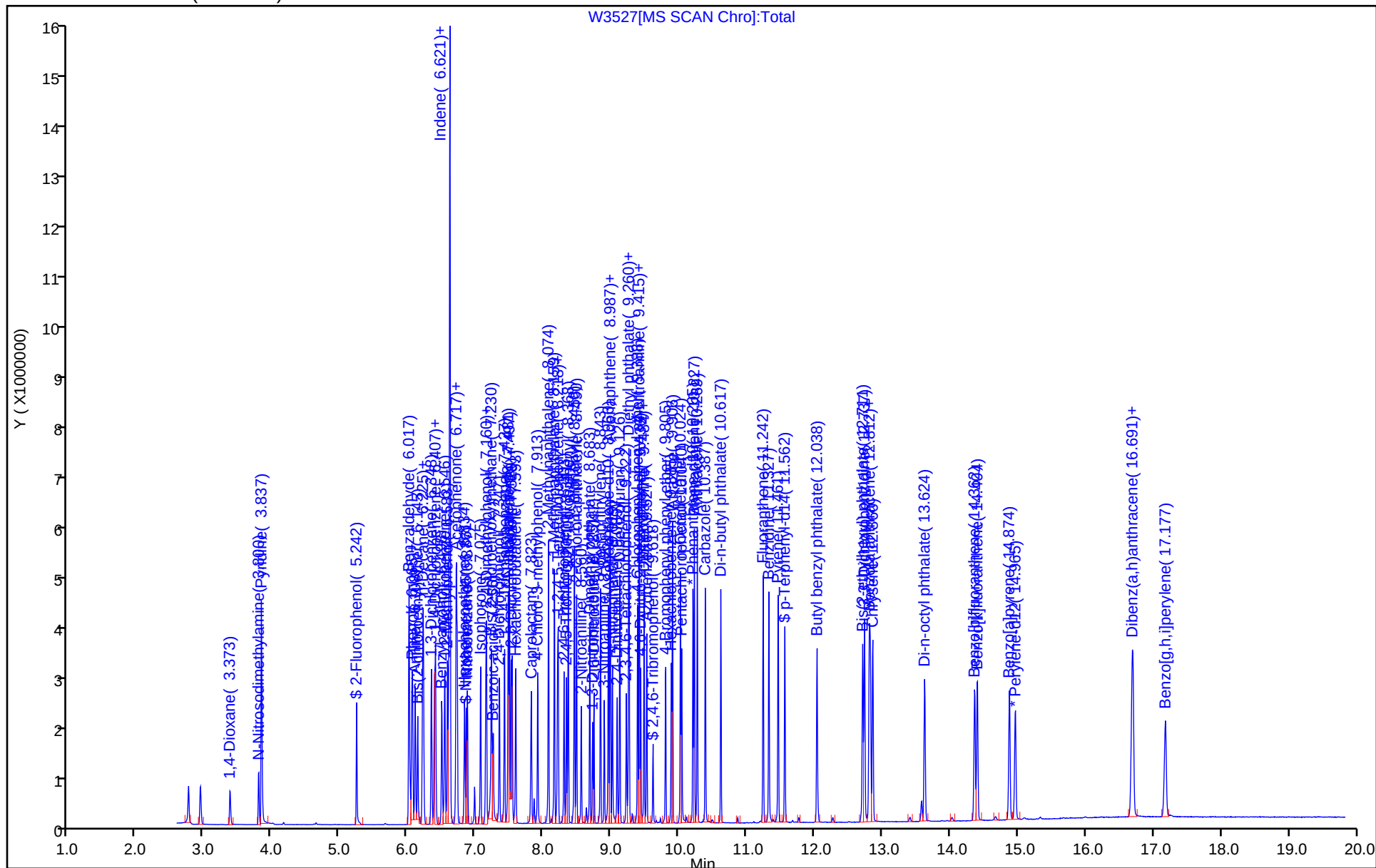
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Lab Sample ID: CCVIS 480-409652/3 Calibration Date: 04/20/2018 01:20
 Instrument ID: HP5973Y Calib Start Date: 03/08/2018 15:21
 GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/08/2018 18:44
 Lab File ID: Y016980.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.071	1.147	0.7000	4280	4000	7.1	20.0
2-Methylnaphthalene	Ave	0.7243	0.7834	0.4000	4330	4000	8.2	20.0
1-Methylnaphthalene	Ave	0.6933	0.7572	0.0100	4370	4000	9.2	20.0
Acenaphthylene	Ave	1.735	1.918	0.9000	4420	4000	10.6	20.0
Acenaphthene	Ave	1.325	1.398	0.9000	4220	4000	5.5	20.0
Dibenzofuran	Ave	1.745	1.885	0.8000	4320	4000	8.0	20.0
Fluorene	Ave	1.453	1.535	0.9000	4230	4000	5.7	20.0
Phenanthrene	Ave	1.134	1.226	0.7000	4330	4000	8.1	20.0
Anthracene	Ave	1.125	1.245	0.7000	4430	4000	10.7	20.0
Fluoranthene	Ave	1.186	1.377	0.6000	4650	4000	16.1	20.0
Pyrene	Ave	1.329	1.459	0.6000	4390	4000	9.8	20.0
Benzo (a) anthracene	Ave	1.255	1.382	0.8000	4400	4000	10.1	20.0
Chrysene	Ave	1.190	1.300	0.7000	4370	4000	9.2	20.0
Benzo (b) fluoranthene	Lin2		1.338	0.7000	4340	4000	8.5	20.0
Benzo (k) fluoranthene	Lin2		1.343	0.7000	4220	4000	5.4	20.0
Benzo (a) pyrene	Lin2		1.280	0.7000	4410	4000	10.2	20.0
Indeno (1,2,3-cd) pyrene	Lin2		1.522	0.5000	4580	4000	14.5	20.0
Dibenz (a,h) anthracene	Lin2		1.229	0.4000	4460	4000	11.6	20.0
Benzo (g,h,i) perylene	Lin2		1.240	0.5000	4500	4000	12.5	20.0
2-Fluorophenol	Ave	1.151	1.206	0.0100	4.19	4.00	4.8	20.0
Phenol-d5	Ave	1.429	1.414	0.0100	3.96	4.00	-1.1	20.0
Nitrobenzene-d5	Ave	0.3785	0.3903	0.0100	4120	4000	3.1	20.0
2-Fluorobiphenyl	Ave	1.504	1.488	0.0100	3960	4000	-1.0	20.0
2,4,6-Tribromophenol	Lin2		0.0891	0.0100	3.69	4.00	-7.8	20.0
p-Terphenyl-d14	Ave	0.8612	0.8406	0.0100	3900	4000	-2.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016980.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 20-Apr-2018 01:20:30 ALS Bottle#: 29 Worklist Smp#: 3
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-003
 Operator ID: BS Instrument ID: HP5973Y
 Sublist: chrom-Y-LVI-8270*sub36
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:34:03 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:34:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.640	6.640	0.000	94	447476	4.00	4.00	
* 2 Naphthalene-d8	136	7.735	7.735	0.000	99	1697165	4.00	4.00	
* 3 Acenaphthene-d10	164	9.226	9.226	0.000	96	955790	4.00	4.00	
* 4 Phenanthrene-d10	188	10.486	10.486	0.000	97	1771213	4.00	4.00	
* 5 Chrysene-d12	240	13.286	13.286	0.000	99	1685006	4.00	4.00	
* 6 Perylene-d12	264	15.567	15.567	0.000	98	1651955	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.497	5.497	0.000	92	539687	4.00	4.19	
\$ 8 Phenol-d5	99	6.298	6.298	0.000	92	632596	4.00	3.96	
\$ 9 Nitrobenzene-d5	82	7.110	7.110	0.000	89	662419	4.00	4.12	
\$ 10 2-Fluorobiphenyl	172	8.622	8.622	0.000	99	1422534	4.00	3.96	
\$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	94	157809	4.00	3.69	
\$ 12 p-Terphenyl-d14	244	11.907	11.907	0.000	100	1416380	4.00	3.90	
13 1,4-Dioxane	88	3.729	3.729	0.000	95	238803	4.00	4.51	
14 N-Nitrosodimethylamine	42	4.113	4.113	0.000	90	327169	4.00	4.33	
15 Pyridine	52	4.156	4.156	0.000	95	849234	8.00	8.59	
35 Benzaldehyde	77	6.266	6.266	0.000	95	900162	8.00	7.87	
37 Phenol	94	6.309	6.309	0.000	99	726125	4.00	4.26	
36 Aniline	93	6.357	6.357	0.000	97	801236	4.00	4.07	
39 Bis(2-chloroethyl)ether	93	6.389	6.389	0.000	95	661819	4.00	4.73	
40 2-Chlorophenol	128	6.469	6.469	0.000	92	661598	4.00	4.47	
41 n-Decane	57	6.469	6.469	0.000	89	660955	4.00	4.45	
43 1,3-Dichlorobenzene	146	6.597	6.597	0.000	99	793416	4.00	4.42	
44 1,4-Dichlorobenzene	146	6.656	6.656	0.000	96	803952	4.00	4.37	
45 Benzyl alcohol	108	6.747	6.747	0.000	92	314122	4.00	3.52	
46 1,2-Dichlorobenzene	146	6.795	6.795	0.000	98	758993	4.00	4.36	
48 2-Methylphenol	108	6.827	6.827	0.000	93	601386	4.00	4.61	
49 2,2'-oxybis[1-chloropropan	45	6.843	6.843	0.000	90	845889	4.00	4.39	
47 Indene	115	6.870	6.870	0.000	90	4962589	20.0	19.9	
57 4-Methylphenol	108	6.950	6.950	0.000	94	574632	4.00	4.21	
53 N-Nitrosodi-n-propylamine	70	6.955	6.955	0.000	89	425861	4.00	4.36	
52 Acetophenone	105	6.971	6.971	0.000	96	827432	4.00	4.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.089	7.089	0.000	91	300712	4.00	4.45	
59 Nitrobenzene	77	7.126	7.126	0.000	87	647334	4.00	4.37	
62 Isophorone	82	7.319	7.319	0.000	99	1108968	4.00	4.53	
64 2-Nitrophenol	139	7.399	7.399	0.000	94	364000	4.00	4.33	
66 2,4-Dimethylphenol	107	7.404	7.404	0.000	91	603863	4.00	4.31	
69 Bis(2-chloroethoxy)methane	93	7.473	7.473	0.000	99	724065	4.00	4.40	
70 Benzoic acid	105	7.495	7.495	0.000	95	1069016	20.0	12.6	
72 2,4-Dichlorophenol	162	7.602	7.602	0.000	92	571135	4.00	4.22	
73 1,2,4-Trichlorobenzene	180	7.676	7.676	0.000	94	709897	4.00	4.42	
74 Naphthalene	128	7.751	7.751	0.000	98	1947087	4.00	4.28	
76 4-Chloroaniline	127	7.778	7.778	0.000	97	631718	4.00	4.01	
77 2,6-Dichlorophenol	162	7.789	7.789	0.000	97	578040	4.00	4.35	
79 Hexachlorobutadiene	225	7.842	7.842	0.000	95	410497	4.00	4.47	
84 Caprolactam	113	8.072	8.072	0.000	79	291305	8.00	7.54	
85 4-Chloro-3-methylphenol	107	8.163	8.163	0.000	94	464247	4.00	4.28	
87 2-Methylnaphthalene	142	8.334	8.334	0.000	92	1329529	4.00	4.33	
89 1-Methylnaphthalene	142	8.419	8.419	0.000	92	1285033	4.00	4.37	
90 Hexachlorocyclopentadiene	237	8.462	8.462	0.000	94	341111	4.00	3.25	
91 1,2,4,5-Tetrachlorobenzene	216	8.472	8.472	0.000	97	735234	4.00	4.26	
93 2,4,6-Trichlorophenol	196	8.558	8.558	0.000	92	423472	4.00	3.97	
94 2,4,5-Trichlorophenol	196	8.601	8.601	0.000	95	478934	4.00	4.59	
96 1,1'-Biphenyl	154	8.713	8.713	0.000	96	1581025	4.00	4.23	
97 2-Chloronaphthalene	162	8.750	8.750	0.000	95	1298382	4.00	4.32	
100 2-Nitroaniline	65	8.814	8.814	0.000	89	300305	4.00	4.06	
105 Dimethyl phthalate	163	8.937	8.937	0.000	99	1387364	4.00	4.35	
106 1,3-Dinitrobenzene	168	8.985	8.985	0.000	91	207905	4.00	4.27	
107 2,6-Dinitrotoluene	165	9.001	9.001	0.000	93	328609	4.00	4.28	
108 Acenaphthylene	152	9.108	9.108	0.000	98	1833032	4.00	4.42	
109 3-Nitroaniline	138	9.162	9.162	0.000	97	247208	4.00	4.72	
111 2,4-Dinitrophenol	184	9.242	9.242	0.000	87	296108	8.00	7.08	
110 Acenaphthene	153	9.252	9.252	0.000	95	1336001	4.00	4.22	
112 4-Nitrophenol	109	9.279	9.279	0.000	87	287507	8.00	7.34	
114 2,4-Dinitrotoluene	165	9.349	9.349	0.000	95	416009	4.00	4.30	
115 Dibenzofuran	168	9.391	9.391	0.000	97	1801327	4.00	4.32	
118 2,3,4,6-Tetrachlorophenol	232	9.487	9.487	0.000	71	335950	4.00	3.88	
121 Hexadecane	57	9.509	9.509	0.000	94	761433	4.00	4.35	
120 Diethyl phthalate	149	9.520	9.520	0.000	99	1397348	4.00	4.47	
123 4-Chlorophenyl phenyl ethe	204	9.653	9.653	0.000	89	758190	4.00	4.38	
126 4-Nitroaniline	138	9.680	9.680	0.000	84	326098	4.00	4.82	
124 Fluorene	166	9.685	9.685	0.000	93	1466945	4.00	4.23	
127 4,6-Dinitro-2-methylphenol	198	9.701	9.701	0.000	93	422230	8.00	7.80	
130 N-Nitrosodiphenylamine	169	9.749	9.749	0.000	62	1032171	4.00	4.33	
129 Diphenylamine	169	9.749	9.749	0.000	94	1032171	3.42	3.70	
131 1,2-Diphenylhydrazine	77	9.792	9.792	0.000	41	1306839	4.00	4.30	
132 Azobenzene	77	9.792	9.792	0.000	98	1306839	4.00	4.30	
139 4-Bromophenyl phenyl ether	248	10.070	10.070	0.000	64	438843	4.00	4.35	
140 Hexachlorobenzene	284	10.161	10.161	0.000	93	462264	4.00	4.25	
143 Atrazine	200	10.166	10.166	0.000	95	749275	8.00	8.09	
148 n-Octadecane	57	10.278	10.278	0.000	94	752361	4.00	4.42	
145 Pentachlorophenol	266	10.316	10.316	0.000	93	366574	8.00	5.77	
151 Phenanthrene	178	10.508	10.508	0.000	97	2171967	4.00	4.33	
152 Anthracene	178	10.551	10.551	0.000	97	2205375	4.00	4.43	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.668	10.668	0.000	96	1814372	4.00	6.04	
157 Di-n-butyl phthalate	149	10.887	10.887	0.000	100	2283288	4.00	4.69	
164 Fluoranthene	202	11.566	11.566	0.000	98	2438953	4.00	4.65	
166 Benzidine	184	11.651	11.651	0.000	99	1222867	8.00	6.42	
167 Pyrene	202	11.811	11.811	0.000	97	2459167	4.00	4.39	
174 Butyl benzyl phthalate	149	12.415	12.415	0.000	96	992199	4.00	4.45	
181 Bis(2-ethylhexyl) phthalat	149	13.136	13.136	0.000	95	1406778	4.00	4.40	
179 3,3'-Dichlorobenzidine	252	13.184	13.184	0.000	73	1172584	8.00	8.32	
180 Benzo[a]anthracene	228	13.264	13.264	0.000	98	2328407	4.00	4.40	
182 Chrysene	228	13.323	13.323	0.000	96	2190101	4.00	4.37	
184 Di-n-octyl phthalate	149	14.114	14.114	0.000	99	2348641	4.00	4.61	
186 Benzo[b]fluoranthene	252	14.931	14.931	0.000	97	2209784	4.00	4.34	
187 Benzo[k]fluoranthene	252	14.974	14.974	0.000	99	2219285	4.00	4.22	
189 Benzo[a]pyrene	252	15.476	15.476	0.000	77	2113750	4.00	4.41	
193 Indeno[1,2,3-cd]pyrene	276	17.511	17.511	0.000	97	2513602	4.00	4.58	
194 Dibenzo(a,h)anthracene	278	17.517	17.517	0.000	88	2030693	4.00	4.46	
195 Benzo[g,h,i]perylene	276	18.088	18.088	0.000	97	2047795	4.00	4.50	

Reagents:

MB_L1LVI_WRK_00311

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 20-Apr-2018 11:34:04

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016980.D

Injection Date: 20-Apr-2018 01:20:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 2.0 ul

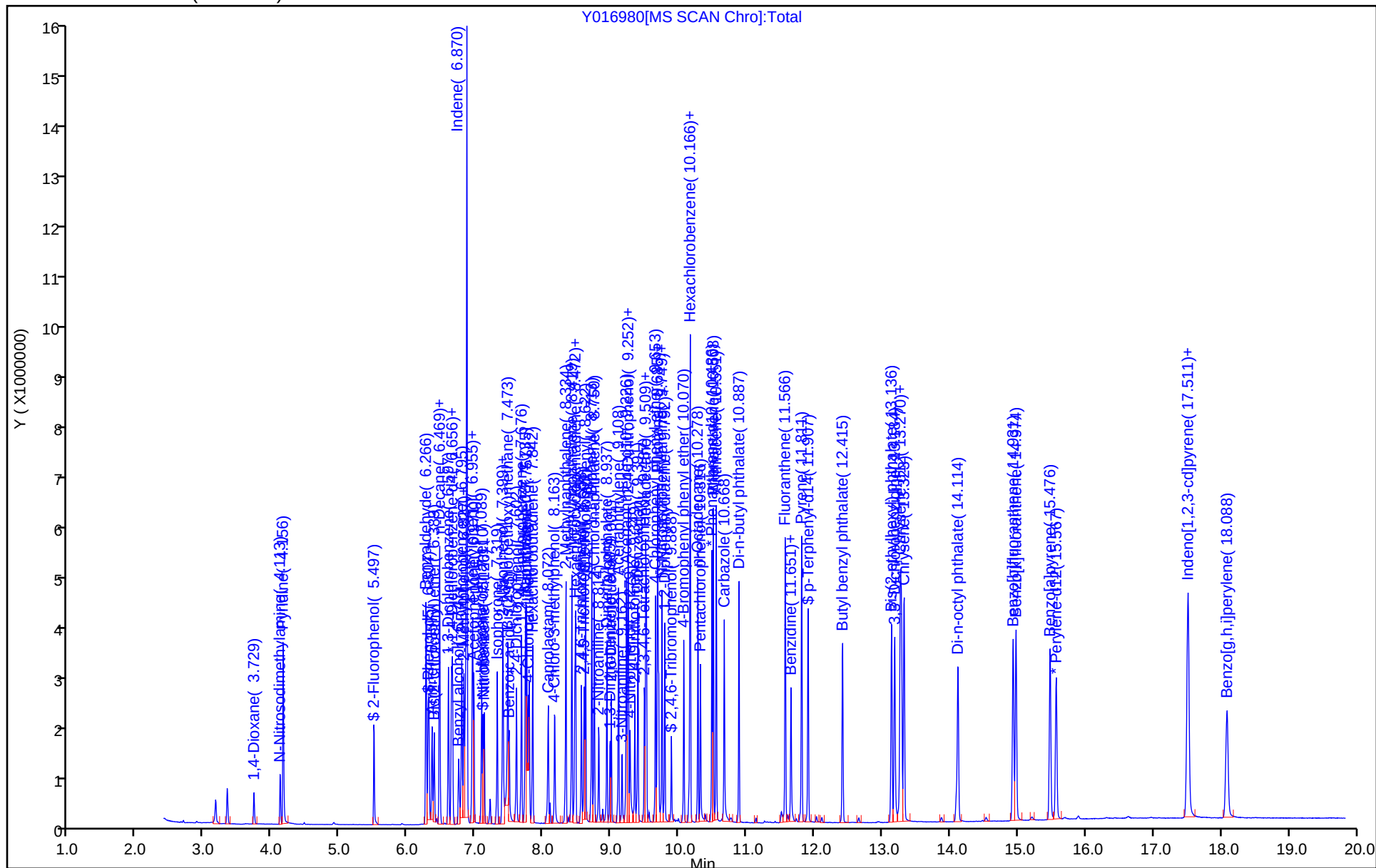
Dil. Factor: 1.0000

ALS Bottle#: 29

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3499.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 21-Apr-2018 14:19:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-003
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 21-Apr-2018 14:42:59 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: quirkp

Date: 21-Apr-2018 14:42:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	10.045	10.045	0.000	91	285128	NR	NR	
249 DFTPP									
250 Benzidine_T	184	11.327	11.327	0.000	99	2230119	NR	NR	
251 4,4'-DDE	246	11.503	11.503	0.000	89	7507		NR	
252 4,4'-DDD	235	11.893	11.893	0.000	87	5017		NR	
253 4,4'-DDT	235	12.187	12.187	0.000	97	1193178	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00329

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3499.D

Injection Date: 21-Apr-2018 14:19:30

Instrument ID: HP5973W

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 2.0 ul

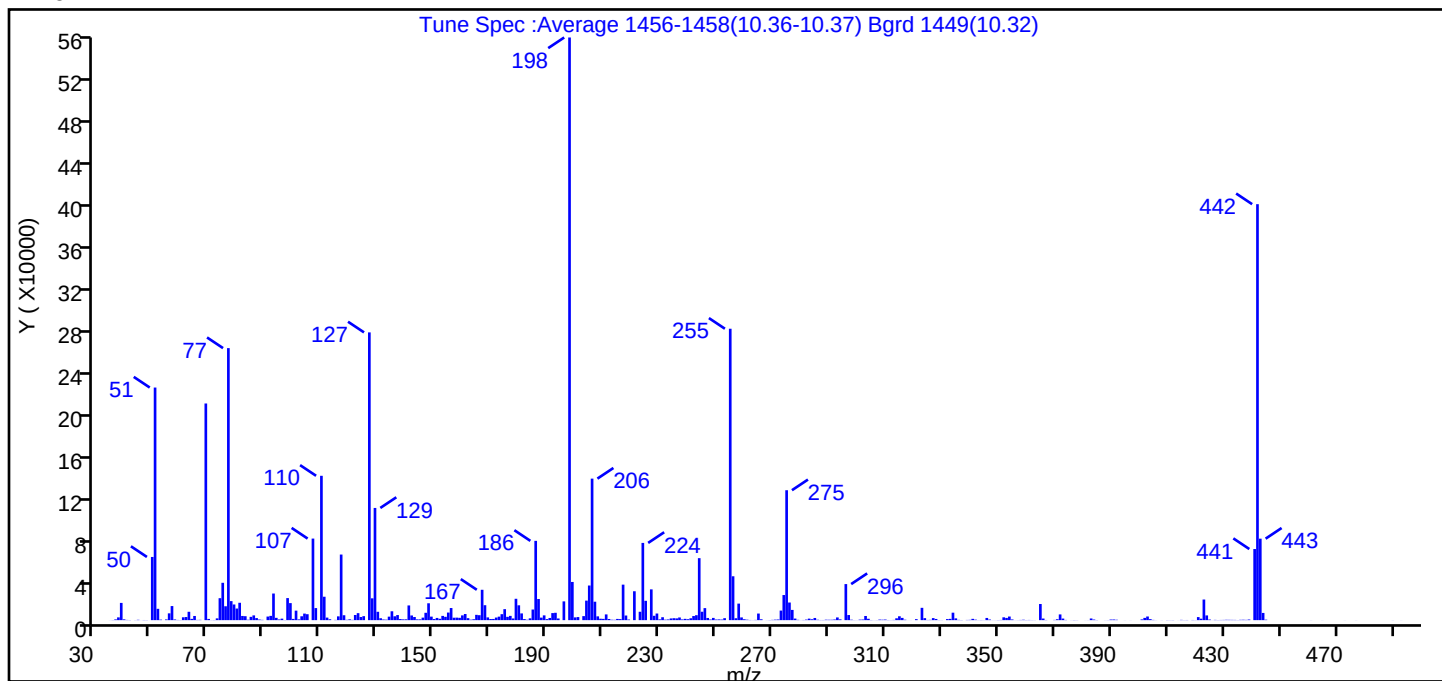
Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (140.1)
51	10-80% of the base peak	39.9
68	<2% of mass 69	0.0 (0.0)
69	Present	37.2
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	49.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-60% of the base peak	22.3
365	>1% of mass 198	2.8
441	present but <24% of mass 442	12.2 (17.1)
442	base peak, or >50% of 198	71.4
443	15-24% of mass 442	14.0 (19.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3499.D\W-LVI-8270.rslt\spectra.d
Injection Date: 21-Apr-2018 14:19:30
Spectrum: Tune Spec :Average 1456-1458(10.36-10.37) Bgrd 1449(10.32)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	46	137.00	4812	238.00	680	340.00	278
36.00	117	138.00	1042	239.00	1236	341.00	1231
37.00	709	139.00	751	240.00	886	342.00	493
38.00	2626	140.00	785	241.00	1771	343.00	92
39.00	16339	141.00	13939	242.00	3887	344.00	142
40.00	752	142.00	4426	243.00	4679	345.00	85
41.00	210	143.00	2954	244.00	58760	346.00	2079
42.00	136	144.00	736	245.00	7966	347.00	586
44.00	81	145.00	727	246.00	11396	348.00	57
45.00	327	146.00	2384	247.00	2063	349.00	53
46.00	34	147.00	6966	248.00	612	350.00	138
47.00	142	148.00	15987	249.00	2128	351.00	196
48.00	121	149.00	3341	250.00	580	352.00	2680
49.00	27	150.00	1046	251.00	691	353.00	2110
50.00	59896	151.00	2096	252.00	553	354.00	3426
51.00	220480	152.00	1301	253.00	1865	355.00	656
52.00	10733	153.00	4028	255.00	276224	356.00	48
53.00	485	154.00	3159	256.00	41584	357.00	83
55.00	676	155.00	7193	257.00	1794	358.00	204
56.00	6442	156.00	11486	258.00	15669	359.00	391
57.00	13347	157.00	2300	259.00	2575	360.00	143
58.00	652	158.00	2373	260.00	829	361.00	195
59.00	191	159.00	2200	261.00	431	362.00	99
60.00	126	160.00	4518	262.00	173	363.00	72
61.00	2710	161.00	5817	263.00	84	365.00	15297
62.00	2938	162.00	1864	264.00	232	366.00	1520
63.00	7924	163.00	433	265.00	6254	367.00	157
64.00	1202	164.00	829	266.00	816	370.00	228
65.00	3955	165.00	5031	268.00	56	371.00	857
66.00	232	166.00	4690	269.00	138	372.00	5430
67.00	296	167.00	28784	270.00	268	373.00	1490
69.00	205376	168.00	14149	271.00	481	374.00	204
70.00	1147	169.00	2596	272.00	604	376.00	57

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3499.D\W-LVI-8270.rslt\spectra.d

Injection Date: 21-Apr-2018 14:19:30

Spectrum: Tune Spec :Average 1456-1458(10.36-10.37) Bgrd 1449(10.32)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 378

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	88	170.00	1055	273.00	9075	377.00	135
72.00	151	171.00	1131	274.00	23800	378.00	92
73.00	1677	172.00	2455	275.00	123152	381.00	40
74.00	20808	173.00	3315	276.00	16704	382.00	62
75.00	35400	174.00	5656	277.00	9694	383.00	1568
76.00	13157	175.00	10418	278.00	1485	384.00	564
77.00	257856	176.00	3138	279.00	295	385.00	119
78.00	18032	177.00	4040	280.00	61	388.00	56
79.00	14850	178.00	1587	281.00	169	389.00	95
80.00	11002	179.00	20248	282.00	527	390.00	561
81.00	16464	180.00	14064	283.00	1437	391.00	600
82.00	3970	181.00	6377	284.00	845	392.00	374
83.00	3741	182.00	1004	285.00	2056	395.00	41
84.00	391	183.00	356	286.00	379	397.00	42
85.00	3125	184.00	1701	287.00	156	401.00	689
86.00	4504	185.00	10066	288.00	152	402.00	2146
87.00	1958	186.00	75152	289.00	434	403.00	3456
88.00	588	187.00	20032	290.00	368	404.00	945
89.00	263	188.00	2384	291.00	371	405.00	232
91.00	3400	189.00	4522	292.00	614	406.00	56
92.00	4044	190.00	987	293.00	2562	408.00	58
93.00	25232	191.00	2064	294.00	746	410.00	112
94.00	2183	192.00	6698	296.00	34184	411.00	84
95.00	664	193.00	6967	297.00	4834	412.00	114
96.00	1419	194.00	1576	298.00	413	414.00	38
97.00	139	196.00	17792	299.00	86	415.00	256
98.00	20912	198.00	552320	300.00	64	416.00	99
99.00	16146	199.00	36200	301.00	495	417.00	156
100.00	1181	200.00	2604	302.00	587	419.00	164
101.00	9002	201.00	2912	303.00	3934	420.00	99
102.00	720	203.00	3811	304.00	1305	421.00	2885
103.00	3664	204.00	18504	305.00	141	422.00	1370
104.00	6206	205.00	32824	306.00	49	423.00	19544
105.00	5617	206.00	134144	307.00	94	424.00	4471

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	77312	207.00	17472	308.00	531	425.00	589
108.00	11433	208.00	3591	309.00	418	426.00	43
110.00	136832	209.00	1343	310.00	561	427.00	247
111.00	22192	210.00	1217	311.00	145	428.00	121
112.00	2407	211.00	5443	312.00	97	429.00	185
113.00	838	212.00	1091	313.00	227	430.00	235
114.00	9	213.00	379	314.00	1748	431.00	341
115.00	230	214.00	299	315.00	3673	432.00	298
116.00	3594	215.00	1159	316.00	2130	433.00	262
117.00	62184	216.00	965	317.00	402	434.00	229
118.00	4638	217.00	33656	318.00	34	435.00	112
119.00	324	218.00	4379	319.00	42	436.00	317
120.00	756	219.00	584	321.00	942	437.00	388
121.00	272	221.00	27384	323.00	11678	438.00	264
122.00	4878	223.00	7941	324.00	1874	439.00	595
123.00	6627	224.00	73208	325.00	195	441.00	67400
124.00	2957	225.00	18328	326.00	295	442.00	394304
125.00	3782	227.00	29168	327.00	1938	443.00	77232
127.00	272768	228.00	4127	328.00	1121	444.00	6828
128.00	20680	229.00	6281	329.00	117	445.00	450
129.00	106352	230.00	729	330.00	73	461.00	51
130.00	7913	231.00	2768	332.00	994	465.00	43
131.00	1804	232.00	456	333.00	1211	473.00	39
132.00	615	233.00	651	334.00	7073	477.00	45
133.00	443	234.00	1608	335.00	1666	490.00	57
134.00	3306	235.00	1832	336.00	257	493.00	38
135.00	8407	236.00	1668	337.00	137		
136.00	3658	237.00	2529	339.00	203		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3499.D

Injection Date: 21-Apr-2018 14:19:30

Instrument ID: HP5973W

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#:

3

Worklist Smp#:

3

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =

$$\left(\frac{\text{Area Breakdown Cpnds}}{\text{Total Area Breakdown Cpnds}} \right) * 100$$

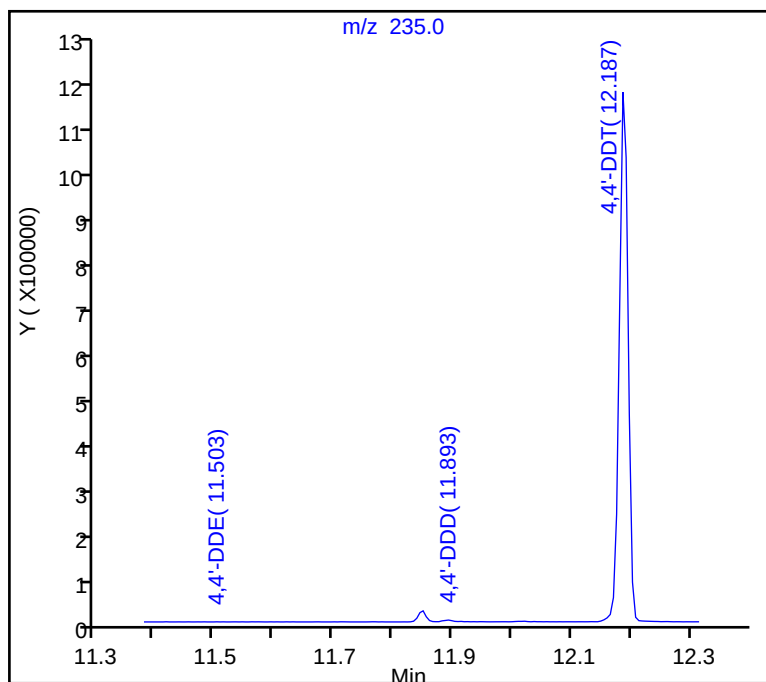
253 4,4'-DDT, Area = 1193178

252 4,4'-DDD, Area = 5017

251 4,4'-DDE, Area = 7507

%Breakdown: 1.04%, Max Limit: 20.00%

Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3499.D
Injection Date: 21-Apr-2018 14:19:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

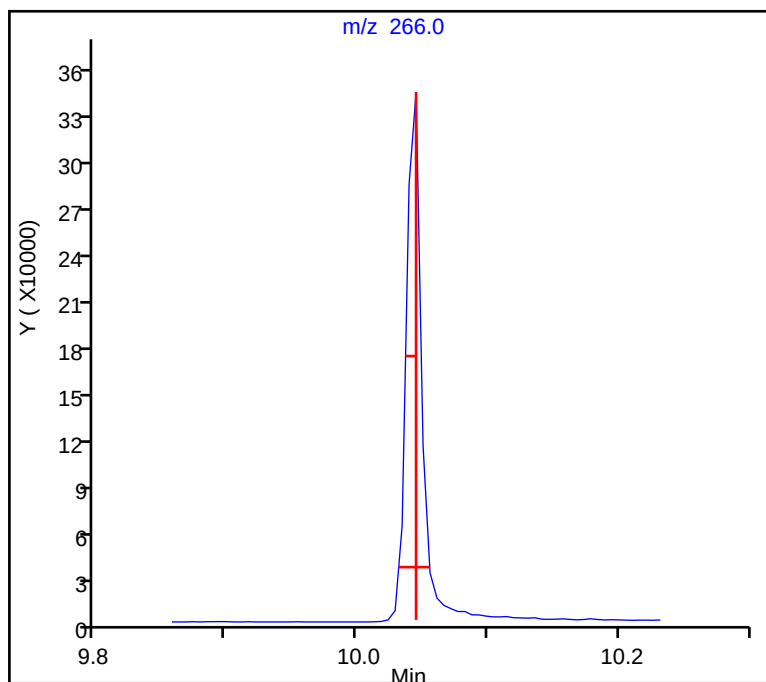
248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)

Front Width = 0.013 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3499.D

Injection Date: 21-Apr-2018 14:19:30

Instrument ID: HP5973W

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

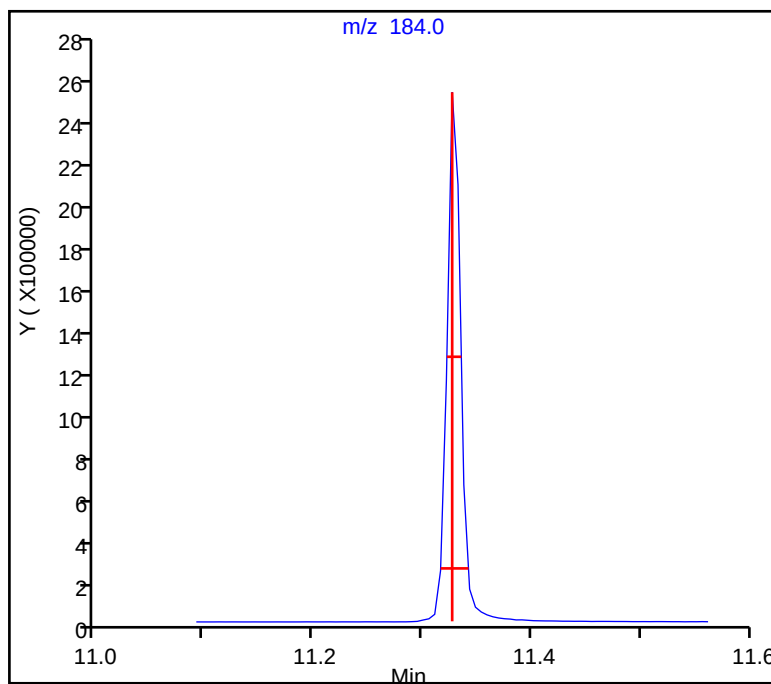
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)

Front Width = 0.011 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00

Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 22-Apr-2018 11:46:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070851-002
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 12:22:44 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 12:22:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	10.040	10.040	0.000	91	285213	NR	NR	
249 DFTPP									
250 Benzidine_T	184	11.327	11.327	0.000	99	2502512	NR	NR	
251 4,4'-DDE	246	11.498	11.498	0.000	87	2299		NR	
252 4,4'-DDD	235	11.894	11.894	0.000	94	3113		NR	
253 4,4'-DDT	235	12.187	12.187	0.000	97	1187277	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00329

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D

Injection Date: 22-Apr-2018 11:46:30

Instrument ID: HP5973W

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#:

2

Worklist Smp#:

2

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

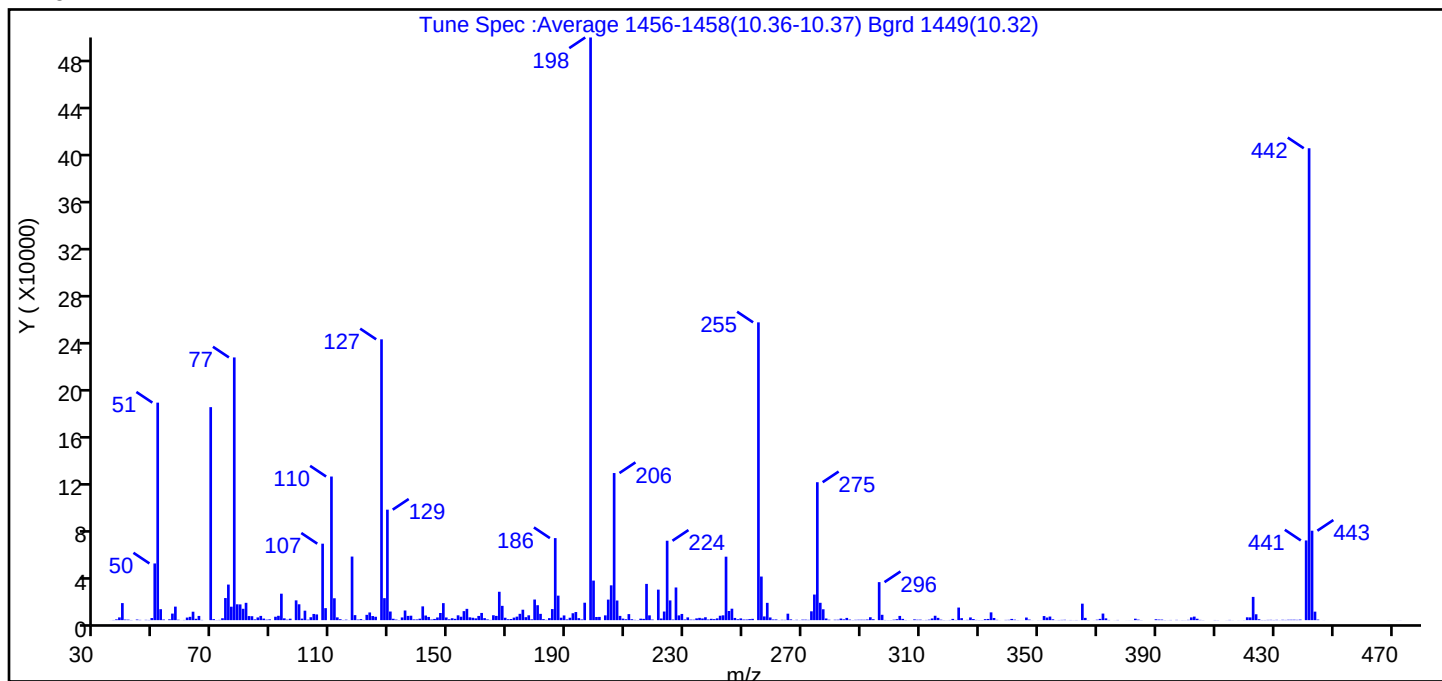
Method: W-LVI-8270

Limit Group:

MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (123.5)
51	10-80% of the base peak	37.3
68	<2% of mass 69	0.0 (0.0)
69	Present	36.6
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	48.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	23.7
365	>1% of mass 198	2.8
441	present but <24% of mass 442	13.7 (16.9)
442	base peak, or >50% of 198	81.0
443	15-24% of mass 442	15.4 (19.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D\W-LVI-8270.rslt\spectra.d
Injection Date: 22-Apr-2018 11:46:30
Spectrum: Tune Spec :Average 1456-1458(10.36-10.37) Bgrd 1449(10.32)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	38	141.00	11743	240.00	860	340.00	264
36.00	149	142.00	3939	241.00	1506	341.00	1040
37.00	676	143.00	2731	242.00	3749	342.00	426
38.00	2328	144.00	523	243.00	4108	343.00	101
39.00	14524	145.00	1027	244.00	54080	344.00	53
40.00	508	146.00	2285	245.00	7801	345.00	44
41.00	445	147.00	6083	246.00	9756	346.00	2216
42.00	135	148.00	14491	247.00	1883	347.00	465
44.00	531	149.00	2283	248.00	783	348.00	44
45.00	219	150.00	735	249.00	1483	350.00	51
47.00	260	151.00	1621	250.00	525	351.00	56
48.00	165	152.00	1113	251.00	530	352.00	3484
49.00	1787	153.00	4109	252.00	879	353.00	2220
50.00	48304	154.00	2906	253.00	1105	354.00	3063
51.00	185344	155.00	7683	255.00	253760	355.00	710
52.00	9340	156.00	9621	256.00	37152	356.00	60
53.00	542	157.00	2406	257.00	3165	357.00	146
55.00	692	158.00	2042	258.00	14738	358.00	225
56.00	5591	159.00	1505	259.00	2294	359.00	314
57.00	11524	160.00	3579	260.00	558	360.00	49
58.00	357	161.00	6135	261.00	599	361.00	145
59.00	48	162.00	1710	262.00	74	362.00	73
60.00	181	163.00	616	263.00	300	363.00	137
61.00	2206	164.00	199	264.00	255	364.00	38
62.00	2819	165.00	4171	265.00	5510	365.00	14042
63.00	7185	166.00	3623	266.00	649	366.00	1935
64.00	1161	167.00	24184	267.00	75	367.00	116
65.00	3582	168.00	12183	268.00	294	369.00	49
66.00	175	169.00	2053	269.00	71	370.00	370
69.00	181504	170.00	784	270.00	432	371.00	1076
70.00	858	171.00	958	271.00	428	372.00	5612
71.00	101	172.00	2155	272.00	257	373.00	1514
72.00	207	173.00	2972	273.00	7539	374.00	174

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D\W-LVI-8270.rsl\spectra.d

Injection Date: 22-Apr-2018 11:46:30

Spectrum: Tune Spec :Average 1456-1458(10.36-10.37) Bgrd 1449(10.32)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1624	174.00	5381	274.00	21816	376.00	41
74.00	18824	175.00	8891	275.00	117536	377.00	171
75.00	30312	176.00	2539	276.00	14786	380.00	33
76.00	11453	177.00	4118	277.00	9273	381.00	41
77.00	223872	178.00	669	278.00	1401	382.00	37
78.00	13503	179.00	17568	279.00	372	383.00	1228
79.00	13416	180.00	12725	281.00	349	384.00	448
80.00	9675	181.00	5360	282.00	358	385.00	94
81.00	14764	182.00	863	283.00	1361	390.00	769
82.00	3477	183.00	254	284.00	675	391.00	493
83.00	3347	184.00	1707	285.00	1906	392.00	472
84.00	655	185.00	9431	286.00	484	393.00	101
85.00	2316	186.00	69904	287.00	115	394.00	48
86.00	3621	187.00	20880	288.00	286	395.00	160
87.00	1326	188.00	2067	289.00	365	397.00	232
88.00	405	189.00	4015	290.00	381	398.00	39
89.00	671	190.00	623	291.00	353	399.00	93
91.00	2905	191.00	2055	292.00	537	400.00	76
92.00	3707	192.00	5890	293.00	2475	401.00	260
93.00	22544	193.00	6921	294.00	781	402.00	2343
94.00	1527	194.00	1688	296.00	32392	403.00	3013
95.00	407	195.00	580	297.00	4560	404.00	1191
96.00	1237	196.00	14853	298.00	169	405.00	213
98.00	16856	198.00	496512	299.00	87	406.00	91
99.00	13522	199.00	33704	300.00	115	410.00	136
100.00	1290	200.00	2686	301.00	405	411.00	93
101.00	8073	201.00	2748	302.00	790	414.00	54
102.00	391	203.00	4075	303.00	3598	415.00	197
103.00	2479	204.00	17504	304.00	1083	416.00	60
104.00	5278	205.00	29656	305.00	153	418.00	47
105.00	4866	206.00	125352	306.00	49	419.00	40
107.00	65160	207.00	16728	307.00	45	420.00	90
108.00	10221	208.00	3620	308.00	658	421.00	2413
110.00	122384	209.00	1303	309.00	374	422.00	2333

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D\W-LVI-8270.rslt\spectra.d

Injection Date: 22-Apr-2018 11:46:30

Spectrum: Tune Spec :Average 1456-1458(10.36-10.37) Bgrd 1449(10.32)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	18640	210.00	768	310.00	409	423.00	19816
112.00	2353	211.00	5137	311.00	72	424.00	5015
113.00	795	212.00	782	312.00	181	425.00	752
114.00	153	213.00	243	313.00	417	426.00	129
115.00	408	214.00	114	314.00	1420	427.00	138
116.00	62	215.00	1250	315.00	3742	428.00	233
117.00	54176	216.00	1105	316.00	1945	429.00	270
118.00	4270	217.00	30888	317.00	392	430.00	149
119.00	496	218.00	4083	318.00	110	431.00	276
120.00	871	219.00	500	319.00	55	432.00	70
121.00	174	221.00	26000	320.00	160	433.00	309
122.00	4515	222.00	1387	321.00	1064	434.00	203
123.00	6554	223.00	7348	322.00	171	435.00	354
124.00	3492	224.00	67672	323.00	10727	436.00	368
125.00	2883	225.00	16816	324.00	1702	437.00	382
127.00	239296	226.00	511	325.00	74	438.00	276
128.00	18736	227.00	27832	326.00	257	439.00	456
129.00	94144	228.00	4057	327.00	2310	441.00	67920
130.00	7344	229.00	5284	328.00	918	442.00	402112
131.00	1173	230.00	595	329.00	185	443.00	76216
132.00	472	231.00	2353	330.00	119	444.00	7238
133.00	115	232.00	452	331.00	117	445.00	477
134.00	2307	233.00	398	332.00	840	447.00	36
135.00	8226	234.00	1497	333.00	1015	469.00	38
136.00	3618	235.00	1940	334.00	6630	472.00	37
137.00	3782	236.00	1427	335.00	1836	473.00	52
138.00	610	237.00	2458	336.00	259		
139.00	600	238.00	554	337.00	38		
140.00	1244	239.00	1138	339.00	206		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D
Injection Date: 22-Apr-2018 11:46:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN

SW-846 Method

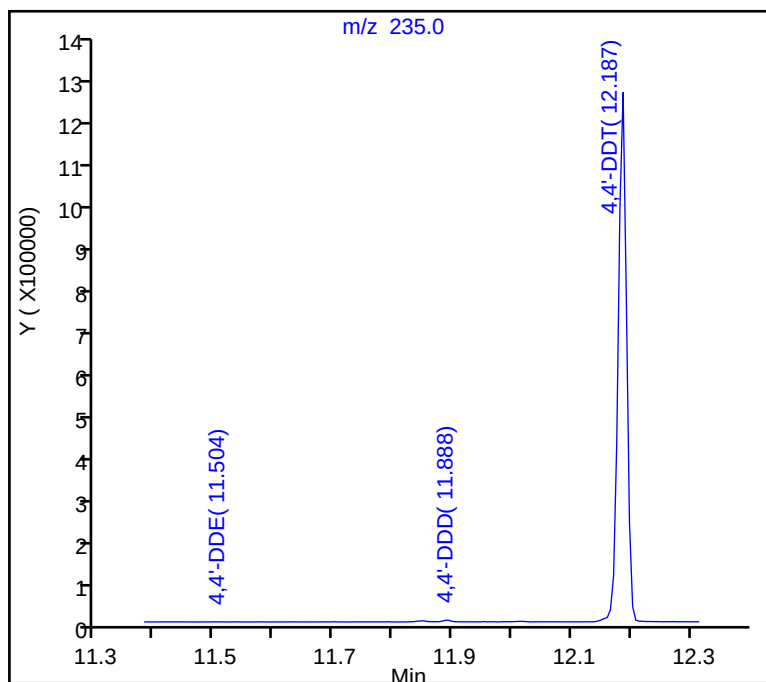
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 1187277

252 4,4'-DDD, Area = 3113

251 4,4'-DDE, Area = 2299

%Breakdown: 0.45%, Max Limit: 20.00%
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D
Injection Date: 22-Apr-2018 11:46:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

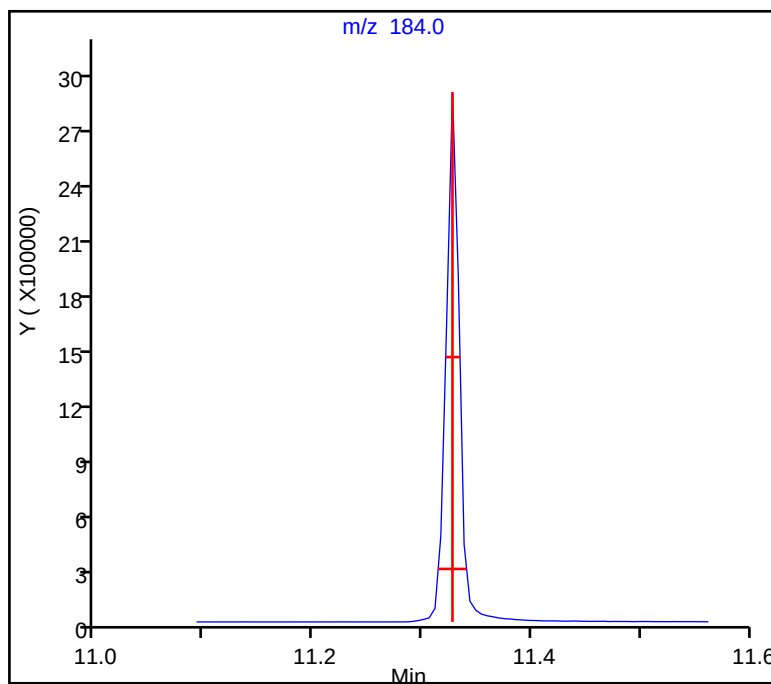
250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)

Front Width = 0.013 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180422-70851.b\W3526.D
Injection Date: 22-Apr-2018 11:46:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

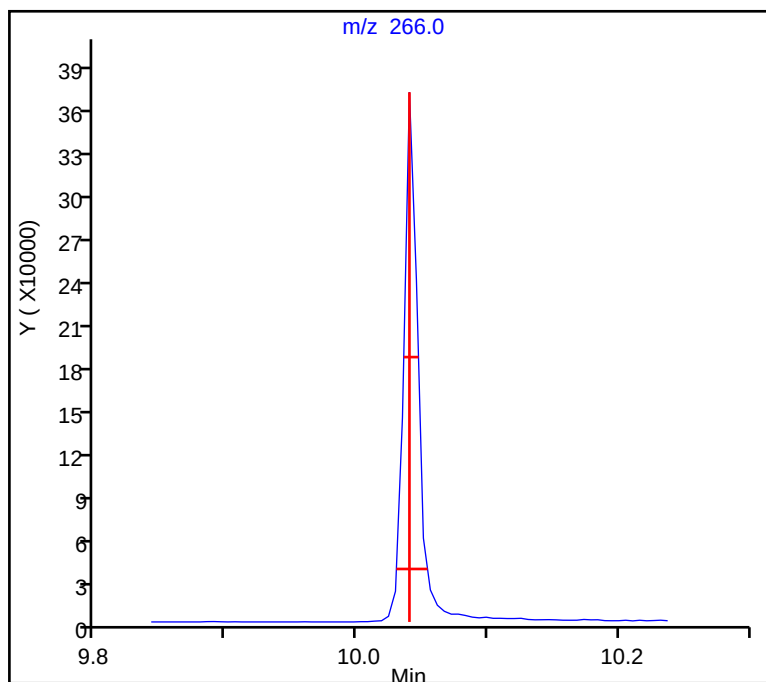
248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)

Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 08-Mar-2018 12:36:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 09-Mar-2018 11:33:53 Calib Date: 08-Mar-2018 18:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016362.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: pagem

Date: 09-Mar-2018 11:33:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	10.365	10.365	0.000	92	349432	NR	NR	
251 DFTPP									
252 Benzidine_T	184	11.717	11.717	0.000	99	1872602	NR	NR	
253 4,4'-DDE	246	11.909	11.909	0.000	88	3297		NR	
254 4,4'-DDD	235	12.288	12.288	0.000	96	17633		NR	
255 4,4'-DDT	235	12.662	12.662	0.000	98	1508480	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00325

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D

Injection Date: 08-Mar-2018 12:36:30

Instrument ID: HP5973Y

Lims ID: DFTPP

Client ID:

Operator ID: BS

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 2.0 ul

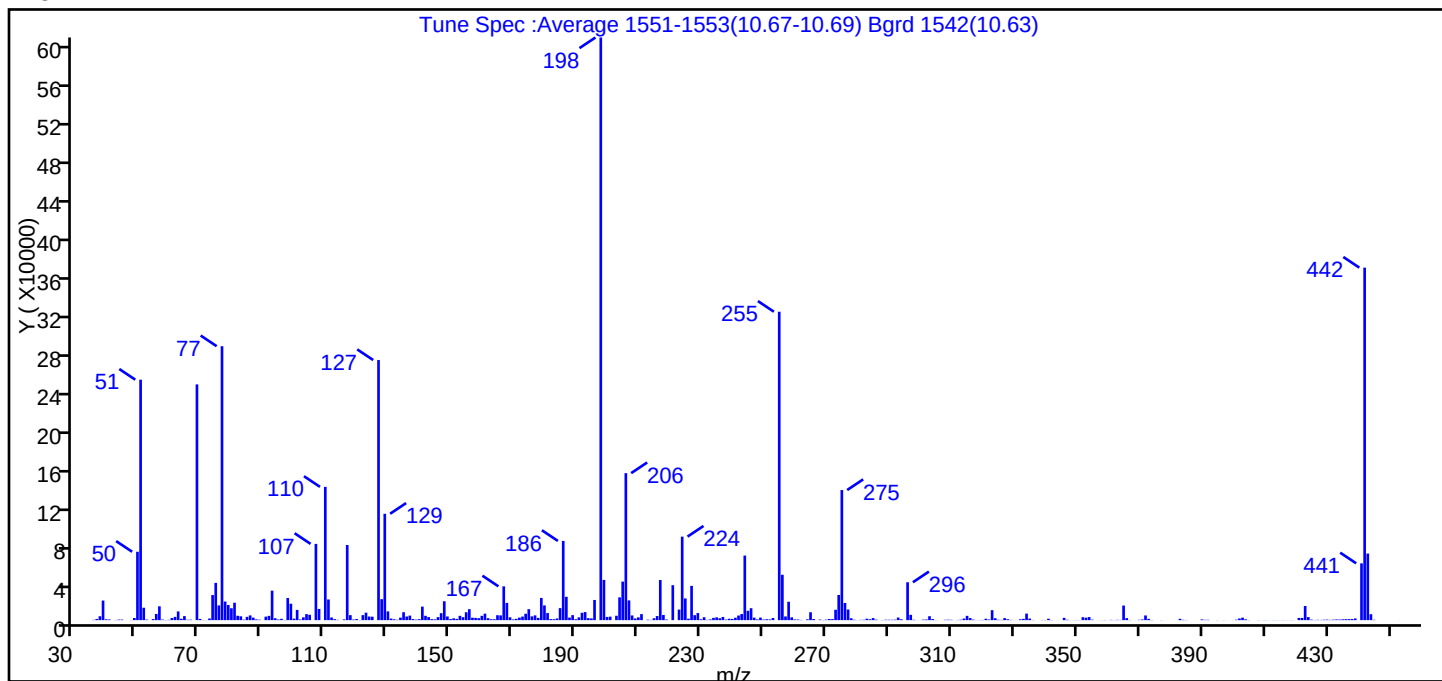
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (165.3)
51	10-80% of the base peak	41.3
68	<2% of mass 69	0.0 (0.0)
69	Present	40.5
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	44.6
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	22.3
365	>1% of mass 198	2.5
441	present but <24% of mass 442	9.8 (16.1)
442	base peak, or >50% of 198	60.5
443	15-24% of mass 442	11.4 (18.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 08-Mar-2018 12:36:30
Spectrum: Tune Spec :Average 1551-1553(10.67-10.69) Bgrd 1542(10.63)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	276	138.00	1101	236.00	1947	335.00	1620
37.00	1198	139.00	560	237.00	3298	336.00	186
38.00	3997	140.00	1020	238.00	608	339.00	207
39.00	20192	141.00	13934	239.00	1444	340.00	137
40.00	874	142.00	4480	240.00	1256	341.00	1452
41.00	721	143.00	3161	241.00	2506	342.00	206
43.00	157	144.00	1033	242.00	4782	344.00	80
44.00	558	145.00	844	243.00	6295	346.00	2376
45.00	595	146.00	3118	244.00	66544	347.00	409
47.00	23	147.00	7162	245.00	9635	348.00	99
48.00	156	148.00	19456	246.00	12297	349.00	79
49.00	2208	149.00	3802	247.00	2572	350.00	157
50.00	70464	150.00	1162	248.00	801	351.00	141
51.00	247808	151.00	1858	249.00	2631	352.00	3023
52.00	12795	152.00	1321	250.00	610	353.00	2554
53.00	576	153.00	4426	251.00	941	354.00	3161
55.00	1117	154.00	3044	252.00	745	355.00	488
56.00	6400	155.00	8141	253.00	2207	357.00	75
57.00	14262	156.00	11289	255.00	317824	358.00	74
58.00	592	157.00	2539	256.00	46752	359.00	163
59.00	165	158.00	2322	257.00	3808	360.00	38
60.00	306	159.00	2010	258.00	18968	361.00	269
61.00	2155	160.00	4469	259.00	2870	362.00	130
62.00	3379	161.00	6699	260.00	715	363.00	302
63.00	8986	162.00	2004	261.00	634	364.00	201
64.00	1403	163.00	949	262.00	221	365.00	15054
65.00	4163	164.00	954	264.00	852	366.00	2067
66.00	421	165.00	5098	265.00	8139	367.00	200
67.00	497	166.00	4893	266.00	1153	369.00	41
69.00	242944	167.00	34824	268.00	588	370.00	342
70.00	1260	168.00	17768	269.00	177	371.00	704
71.00	114	169.00	2951	270.00	517	372.00	4830
72.00	95	170.00	754	271.00	1180	373.00	1331

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D\Y-LVI-8270.rsl\spectra.d

Injection Date: 08-Mar-2018 12:36:30

Spectrum: Tune Spec :Average 1551-1553(10.67-10.69) Bgrd 1542(10.63)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1698	171.00	1367	272.00	1053	374.00	187
74.00	25872	172.00	2621	273.00	10715	377.00	122
75.00	38400	173.00	3694	274.00	25928	378.00	39
76.00	15193	174.00	6610	275.00	134080	379.00	42
77.00	282304	175.00	11298	276.00	17696	381.00	35
78.00	19168	176.00	3898	277.00	10968	382.00	36
79.00	15613	177.00	4916	278.00	1941	383.00	1368
80.00	12265	178.00	2347	279.00	423	384.00	341
81.00	17936	179.00	22896	280.00	101	385.00	157
82.00	4516	180.00	15181	281.00	292	390.00	768
83.00	3954	181.00	7330	282.00	386	391.00	374
84.00	504	182.00	1088	283.00	1460	392.00	374
85.00	3406	183.00	948	284.00	929	395.00	117
86.00	4877	184.00	1718	285.00	2104	397.00	96
87.00	2580	185.00	12382	286.00	511	398.00	35
88.00	810	186.00	81632	287.00	35	400.00	60
89.00	464	187.00	24064	288.00	176	401.00	477
91.00	3612	188.00	2638	289.00	429	402.00	1691
92.00	4405	189.00	5165	290.00	407	403.00	2536
93.00	30392	190.00	944	291.00	387	404.00	868
94.00	1972	191.00	2839	292.00	495	405.00	177
95.00	667	192.00	7587	293.00	2669	408.00	124
96.00	1359	193.00	8313	294.00	902	409.00	38
97.00	210	194.00	2044	296.00	39048	410.00	126
98.00	22832	195.00	1781	297.00	5453	411.00	97
99.00	16936	196.00	20800	298.00	412	412.00	35
100.00	1541	198.00	600448	299.00	69	413.00	122
101.00	10541	199.00	41472	300.00	49	414.00	117
102.00	695	200.00	3324	301.00	545	415.00	74
103.00	2914	201.00	3593	302.00	681	416.00	117
104.00	6217	203.00	4535	303.00	4053	417.00	101
105.00	5533	204.00	23488	304.00	1134	418.00	77
107.00	78584	205.00	39712	305.00	139	419.00	114
108.00	11571	206.00	151488	306.00	43	421.00	2287

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D\Y-LVI-8270.rsl\spectra.d

Injection Date: 08-Mar-2018 12:36:30

Spectrum: Tune Spec :Average 1551-1553(10.67-10.69) Bgrd 1542(10.63)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	137344	207.00	20368	308.00	364	422.00	2300
111.00	21288	208.00	4838	309.00	478	423.00	14561
112.00	2736	209.00	1760	310.00	361	424.00	3149
113.00	1031	210.00	2875	312.00	192	425.00	544
114.00	302	211.00	6234	313.00	430	426.00	186
116.00	790	213.00	466	314.00	1623	427.00	329
117.00	77432	214.00	256	315.00	4433	428.00	239
118.00	5136	215.00	1964	316.00	2121	429.00	444
119.00	613	216.00	4217	317.00	547	430.00	546
120.00	1143	217.00	41336	318.00	92	431.00	272
121.00	161	218.00	5358	319.00	179	432.00	523
122.00	5190	219.00	652	320.00	217	433.00	726
123.00	7704	221.00	36016	321.00	1443	434.00	610
124.00	3724	223.00	10873	322.00	670	435.00	855
125.00	3560	224.00	86072	323.00	10240	436.00	1025
127.00	268032	225.00	22344	324.00	1980	437.00	1069
128.00	21624	226.00	1499	325.00	410	438.00	1157
129.00	109632	227.00	35320	326.00	259	439.00	1725
130.00	9018	228.00	5114	327.00	2098	441.00	58552
131.00	1600	229.00	7320	328.00	959	442.00	363264
132.00	913	230.00	884	329.00	262	443.00	68600
133.00	379	231.00	3000	330.00	70	444.00	6106
134.00	2609	232.00	287	331.00	55	445.00	360
135.00	8191	233.00	758	332.00	879	453.00	52
136.00	3748	234.00	2344	333.00	1339		
137.00	4663	235.00	2885	334.00	6742		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D
Injection Date: 08-Mar-2018 12:36:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

255 4,4'-DDT, Detector: MS SCAN

SW-846 Method

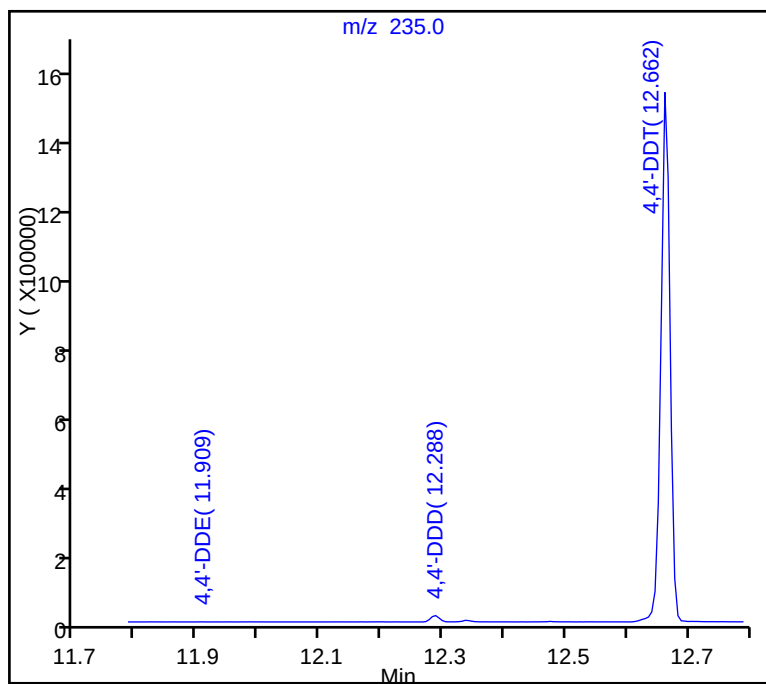
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1508480

254 4,4'-DDD, Area = 17633

253 4,4'-DDE, Area = 3297

%Breakdown: 1.37%, Max Limit: 20.00%
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D
Injection Date: 08-Mar-2018 12:36:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

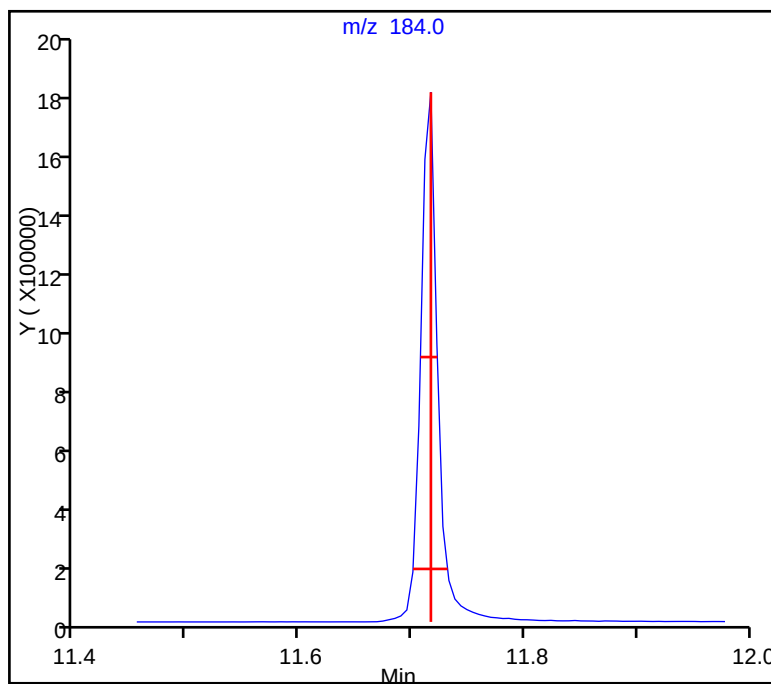
252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)

Front Width = 0.016 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180308-69765.b\Y016352.D
Injection Date: 08-Mar-2018 12:36:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

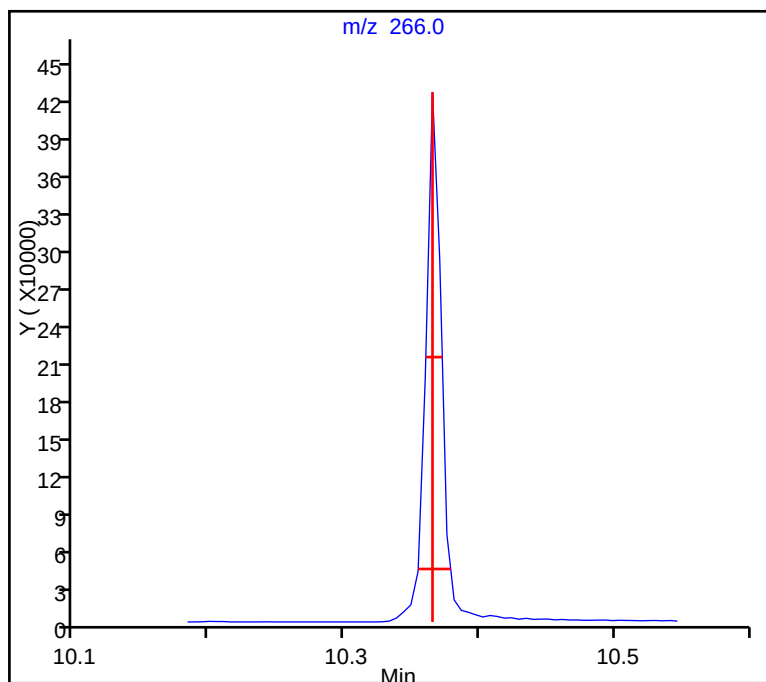
250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)

Front Width = 0.011 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 20-Apr-2018 00:51:30 ALS Bottle#: 28 Worklist Smp#: 2
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-002
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:33:30 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:33:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	10.317	10.317	0.000	93	300569	NR	NR	
251 DFTPP									
252 Benzidine_T	184	11.653	11.653	0.000	99	2736893	NR	NR	
253 4,4'-DDE	246	11.835	11.835	0.000	88	6068		NR	
254 4,4'-DDD	235	12.214	12.214	0.000	98	39245		NR	
255 4,4'-DDT	235	12.582	12.582	0.000	98	1629161	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00329

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D

Injection Date: 20-Apr-2018 00:51:30

Instrument ID: HP5973Y

Lims ID: DFTPP

Client ID:

Operator ID: BS

ALS Bottle#: 28 Worklist Smp#: 2

Injection Vol: 2.0 ul

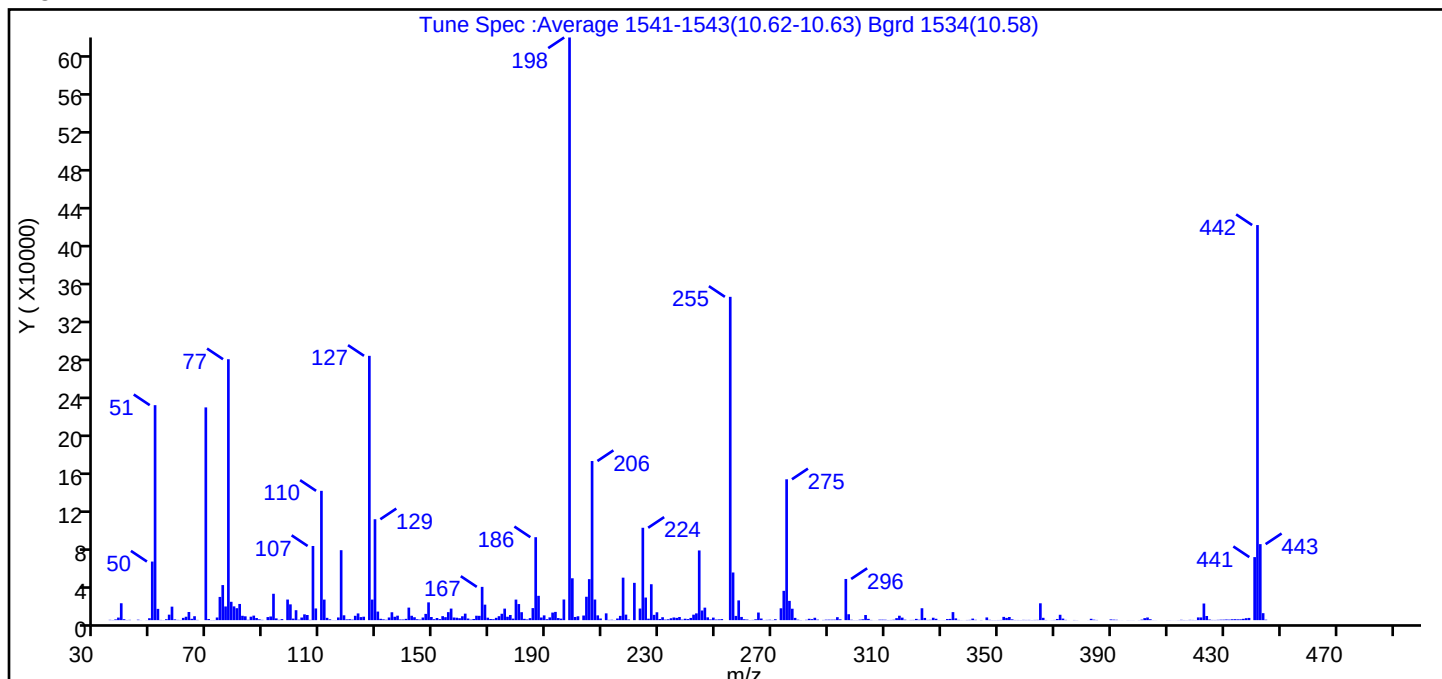
Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (147.5)
51	10-80% of the base peak	36.9
68	<2% of mass 69	0.0 (0.0)
69	Present	36.5
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	45.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.2
275	10-60% of the base peak	24.2
365	>1% of mass 198	2.9
441	present but <24% of mass 442	10.8 (16.0)
442	base peak, or >50% of 198	67.8
443	15-24% of mass 442	13.0 (19.2)

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D\Y-LVI-8270.rsl\spectra.d
Injection Date: 20-Apr-2018 00:51:30
Spectrum: Tune Spec :Average 1541-1543(10.62-10.63) Bgrd 1534(10.58)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	335	139.00	691	240.00	1117	341.00	1642
36.00	173	140.00	1356	241.00	2356	342.00	376
37.00	791	141.00	13272	242.00	5790	343.00	25
38.00	2728	142.00	4638	243.00	7180	344.00	173
39.00	17888	143.00	3073	244.00	73784	346.00	2869
40.00	967	144.00	963	245.00	10206	347.00	343
41.00	179	145.00	589	246.00	13231	348.00	142
42.00	317	146.00	2797	247.00	2956	349.00	131
45.00	500	147.00	6624	248.00	775	350.00	177
46.00	84	148.00	18824	249.00	2695	351.00	226
48.00	93	149.00	3324	250.00	641	352.00	3453
49.00	2019	150.00	999	251.00	831	353.00	2383
50.00	62024	151.00	2266	252.00	1111	354.00	3297
51.00	227584	152.00	1079	255.00	342272	355.00	857
52.00	11935	153.00	4221	256.00	50448	356.00	186
53.00	238	154.00	3133	257.00	4482	357.00	191
54.00	124	155.00	8466	258.00	20912	358.00	143
55.00	965	156.00	12243	259.00	3393	359.00	294
56.00	5801	157.00	2799	260.00	912	360.00	230
57.00	14284	158.00	2559	261.00	645	361.00	265
58.00	811	159.00	2021	262.00	130	362.00	134
59.00	272	160.00	4106	263.00	250	363.00	247
60.00	204	161.00	6888	264.00	890	364.00	295
61.00	2401	162.00	1709	265.00	8059	365.00	17848
62.00	3599	163.00	541	266.00	1706	366.00	2464
63.00	8625	164.00	1238	267.00	119	367.00	198
64.00	1410	165.00	4687	268.00	313	368.00	39
65.00	4160	166.00	4574	269.00	459	369.00	100
66.00	263	167.00	35224	270.00	211	370.00	243
69.00	225216	168.00	16408	271.00	982	371.00	1232
70.00	1216	169.00	2594	273.00	12553	372.00	5693
71.00	152	170.00	1219	274.00	31032	373.00	1649
72.00	169	171.00	976	275.00	149120	374.00	279

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D\Y-LVI-8270.rsl\spectra.d

Injection Date: 20-Apr-2018 00:51:30

Spectrum: Tune Spec :Average 1541-1543(10.62-10.63) Bgrd 1534(10.58)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	2809	172.00	2454	276.00	20408	375.00	39
74.00	24584	173.00	4188	277.00	12085	377.00	183
75.00	37120	174.00	6751	278.00	2406	378.00	94
76.00	14486	175.00	12211	279.00	512	382.00	50
77.00	276224	176.00	3596	280.00	138	383.00	1430
78.00	19424	177.00	5453	281.00	44	384.00	486
79.00	14564	178.00	1623	282.00	353	385.00	218
80.00	12646	179.00	21752	283.00	1448	390.00	765
81.00	17144	180.00	17032	284.00	1072	391.00	539
82.00	4607	181.00	8419	285.00	2509	392.00	404
83.00	4072	182.00	1408	286.00	557	393.00	43
84.00	368	183.00	750	288.00	216	394.00	44
85.00	3650	184.00	2115	289.00	498	396.00	81
86.00	4791	185.00	12745	290.00	544	397.00	66
87.00	2239	186.00	87808	291.00	521	398.00	62
88.00	851	187.00	25752	292.00	574	400.00	99
89.00	299	188.00	2786	293.00	3138	401.00	543
90.00	40	189.00	5048	294.00	882	402.00	2115
91.00	3235	190.00	1007	296.00	43592	403.00	2806
92.00	3875	191.00	2917	297.00	6263	404.00	951
93.00	27928	192.00	8012	298.00	427	405.00	84
94.00	1845	193.00	8730	299.00	107	406.00	47
95.00	309	194.00	2198	300.00	115	408.00	39
96.00	1108	195.00	1592	301.00	510	410.00	82
98.00	21808	196.00	21872	302.00	894	411.00	81
99.00	16712	198.00	616832	303.00	5429	412.00	38
100.00	1642	199.00	44320	304.00	1365	413.00	41
101.00	10528	200.00	3353	305.00	216	414.00	102
102.00	481	201.00	4101	306.00	41	415.00	353
103.00	2770	203.00	4897	307.00	52	416.00	168
104.00	6121	204.00	24760	308.00	512	417.00	115
105.00	5436	205.00	43408	309.00	537	418.00	309
106.00	286	206.00	168448	310.00	452	419.00	229
107.00	78504	207.00	21816	311.00	173	420.00	164

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D\Y-LVI-8270.rsl\spectra.d

Injection Date: 20-Apr-2018 00:51:30

Spectrum: Tune Spec :Average 1541-1543(10.62-10.63) Bgrd 1534(10.58)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	12381	208.00	5055	312.00	230	421.00	2885
110.00	136896	209.00	1731	313.00	435	422.00	2865
111.00	21760	211.00	7196	314.00	2108	423.00	17608
112.00	2434	212.00	275	315.00	4672	424.00	4399
113.00	877	213.00	408	316.00	2670	425.00	656
114.00	106	214.00	160	317.00	520	426.00	234
115.00	124	215.00	1741	318.00	63	427.00	210
116.00	2837	216.00	4532	319.00	225	428.00	343
117.00	74048	217.00	44984	320.00	266	429.00	489
118.00	5118	218.00	5834	321.00	1346	430.00	527
119.00	825	219.00	715	322.00	435	431.00	719
120.00	988	221.00	39496	323.00	12607	432.00	548
121.00	561	223.00	12288	324.00	2346	433.00	923
122.00	4609	224.00	97792	325.00	274	434.00	1017
123.00	7122	225.00	23936	326.00	399	435.00	852
124.00	3228	226.00	1548	327.00	2553	436.00	848
125.00	3631	227.00	38024	328.00	1454	437.00	1402
127.00	279808	228.00	5580	329.00	126	438.00	2058
128.00	21768	229.00	8333	330.00	82	439.00	2361
129.00	106808	230.00	1241	331.00	129	441.00	66728
130.00	9062	231.00	3092	332.00	1148	442.00	418240
131.00	1420	232.00	586	333.00	1319	443.00	80456
132.00	847	233.00	902	334.00	8498	444.00	7381
133.00	377	234.00	1991	335.00	1851	445.00	498
134.00	2825	235.00	2830	336.00	265	491.00	34
135.00	8356	236.00	2411	337.00	93	492.00	34
136.00	3584	237.00	3311	338.00	47		
137.00	4734	238.00	566	339.00	194		
138.00	710	239.00	1511	340.00	282		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D

Injection Date: 20-Apr-2018 00:51:30

Instrument ID: HP5973Y

Lims ID: DFTPP

Client ID:

Operator ID: BS

ALS Bottle#: 28

Worklist Smp#: 2

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

255 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =

$$\left(\frac{\text{Area Breakdown Cpnds}}{\text{Total Area Breakdown Cpnds}} \right) * 100$$

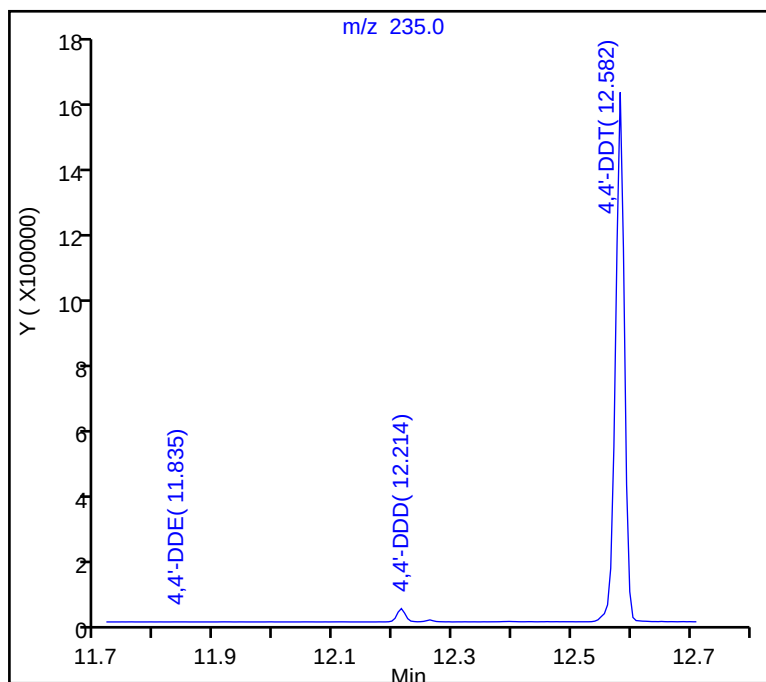
255 4,4'-DDT, Area = 1629161

254 4,4'-DDD, Area = 39245

253 4,4'-DDE, Area = 6068

%Breakdown: 2.71%, Max Limit: 20.00%

Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D
Injection Date: 20-Apr-2018 00:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 28 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

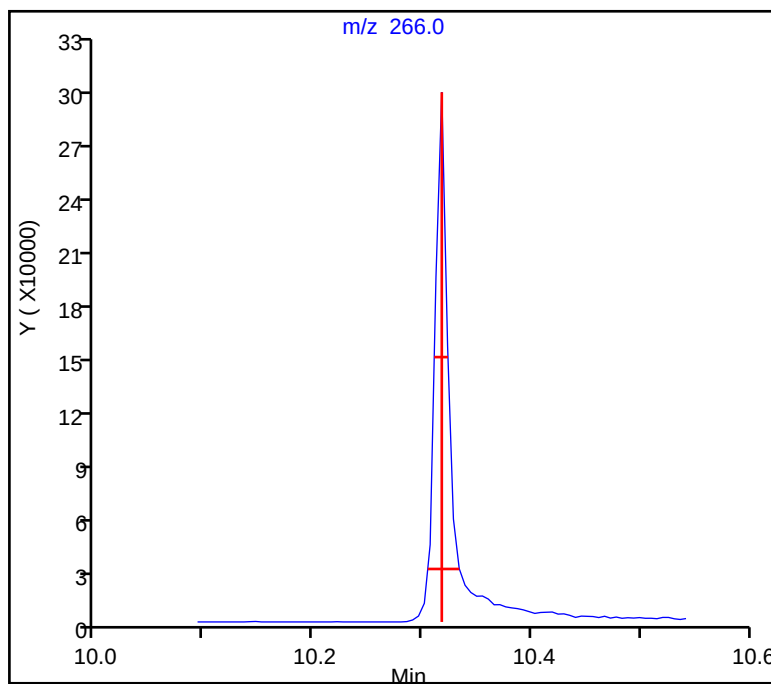
250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)

Front Width = 0.013 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016979.D

Injection Date: 20-Apr-2018 00:51:30

Instrument ID: HP5973Y

Lims ID: DFTPP

Client ID:

Operator ID: BS

ALS Bottle#: 28 Worklist Smp#: 2

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

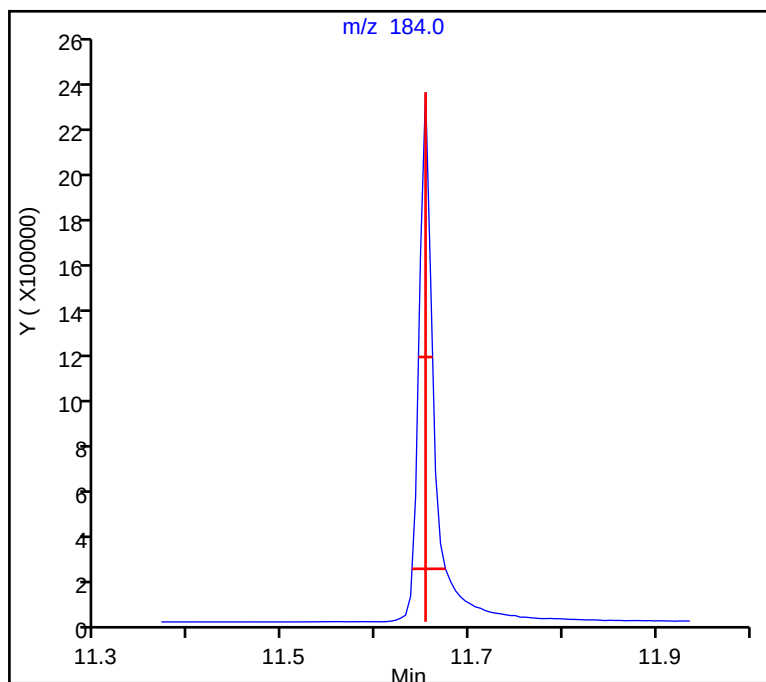
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)

Front Width = 0.015 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00

Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-409528/1-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>Y016991.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: _____
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/18/2018 14:24</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/20/2018 06:39</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>409652</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.50	U	0.50	0.30
191-24-2	Benzo (g, h, i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50	U	0.50	0.32
53-70-3	Dibenz (a, h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.50	U	0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1, 2, 3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.50	U	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	98		48-120
4165-60-0	Nitrobenzene-d5	86		46-120
1718-51-0	p-Terphenyl-d14	104		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016991.D
 Lims ID: MB 480-409528/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Apr-2018 06:39:30 ALS Bottle#: 40 Worklist Smp#: 14
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-014
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:41:23 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:41:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.643	6.640	0.003	95	433145	4.00	4.00	
* 2 Naphthalene-d8	136	7.733	7.735	-0.002	99	1643650	4.00	4.00	
* 3 Acenaphthene-d10	164	9.223	9.226	-0.003	95	893897	4.00	4.00	
* 4 Phenanthrene-d10	188	10.484	10.486	-0.002	97	1642336	4.00	4.00	
* 5 Chrysene-d12	240	13.278	13.286	-0.008	99	1573975	4.00	4.00	
* 6 Perylene-d12	264	15.564	15.567	-0.003	98	1538690	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.516	5.497	0.019	91	763698	8.00	6.13	
\$ 8 Phenol-d5	99	6.301	6.298	0.003	93	674702	8.00	4.36	
\$ 9 Nitrobenzene-d5	82	7.107	7.110	-0.003	89	1068547	8.00	6.87	
\$ 10 2-Fluorobiphenyl	172	8.619	8.622	-0.003	99	2628765	8.00	7.82	
\$ 11 2,4,6-Tribromophenol	330	9.891	9.888	0.003	94	227986	8.00	5.70	
\$ 12 p-Terphenyl-d14	244	11.905	11.907	-0.002	99	2812852	8.00	8.30	
237 Lidocaine	1		0.195					ND	
202 o-Anisidine	1		0.195					ND	
223 5-Ethyl-5-phenyl barbituri	1		0.195					ND	
13 1,4-Dioxane	88		3.729					ND	
17 Triethyl amine	86		3.744					ND	
14 N-Nitrosodimethylamine	42		4.113					ND	
15 Pyridine	52		4.156					ND	
18 1-Methylcyclopentanol	71	4.704	4.647	0.057	53	229		NC	
19 2-Picoline	93		4.953					ND	U
20 N-Nitrosomethylethylamine	88		5.059					ND	
21 2-Chlorobenzotrifluoride	180		5.203					ND	
23 4-Chlorobenzotrifluoride	180		5.272					ND	
24 Acrylamide	71		5.305					ND	
25 n,n'-Dimethylacetamide	87		5.325					ND	
22 Methyl methanesulfonate	80		5.332					ND	
196 CBF-400	214		5.530					ND	
26 4-Chloropyridine	78	5.537	5.531	0.006	0	7873		NC	
27 3-Chloropyridine	78		5.595					ND	
29 3-Chlorobenzotrifluoride	180		5.678					ND	
28 N-Nitrosodiethylamine	102		5.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
30 Ethyl methanesulfonate	79		5.952					ND	
31 2-Chloropyridine	78		5.958					ND	
257 CBF-500	161		6.089					ND	
32 2-Chlorotoluene	91		6.116					ND	
33 3-Chlorotoluene	91		6.137					ND	
34 4-Chlorotoluene	91		6.169					ND	
35 Benzaldehyde	77		6.266					ND	U
37 Phenol	94		6.309					ND	
36 Aniline	93		6.357					ND	U
39 Bis(2-chloroethyl)ether	93		6.389					ND	
38 Pentachloroethane	167	6.408	6.405	0.002	85	3324		0.0521	
42 p-Fluoroaniline	111	6.408	6.444	-0.036	60	2953		NC	
40 2-Chlorophenol	128		6.469					ND	
41 n-Decane	57	6.466	6.469	-0.003	93	18299		0.1272	
43 1,3-Dichlorobenzene	146		6.597					ND	
44 1,4-Dichlorobenzene	146		6.656					ND	
45 Benzyl alcohol	108		6.747					ND	
46 1,2-Dichlorobenzene	146		6.795					ND	
48 2-Methylphenol	108		6.827					ND	
49 2,2'-oxybis[1-chloropropan	45		6.843					ND	
47 Indene	115		6.870					ND	U
51 N-Methylaniline	106		6.890					ND	
57 4-Methylphenol	108		6.950					ND	
50 N-Nitrosopyrrolidine	100		6.950					ND	
53 N-Nitrosodi-n-propylamine	70		6.955					ND	
52 Acetophenone	105	6.969	6.971	-0.002	98	32871		0.1757	
54 N-Nitrosomorpholine	56		6.977					ND	
56 2-Toluidine	106		7.004					ND	
55 4-Methylbenzenamine	106		7.006					ND	
58 Hexachloroethane	117		7.089					ND	
60 2,6-Dichloropyridine	112		7.107					ND	
59 Nitrobenzene	77		7.126					ND	
61 N-Nitrosopiperidine	114		7.250					ND	
65 Benzeneacetonitrile	117		7.318					ND	
62 Isophorone	82		7.319					ND	U
282 2,4-Dichlorotoluene	125		7.351					ND	
63 2-Chloroaniline	127		7.363					ND	
64 2-Nitrophenol	139		7.399					ND	
66 2,4-Dimethylphenol	107		7.404					ND	
287 1,3,5-Trichlorobenzene	180		7.432					ND	
68 o,o',o"-Triethylphosphoro	198		7.442					ND	
67 Tetraethyl lead	237		7.454					ND	
69 Bis(2-chloroethoxy)methane	93		7.473					ND	
70 Benzoic acid	105		7.495					ND	
71 alpha,alpha-Dimethyl phene	58		7.570					ND	
72 2,4-Dichlorophenol	162		7.602					ND	
73 1,2,4-Trichlorobenzene	180		7.676					ND	
286 4-Chlorophenol	128	7.684	7.677	0.001	56	452		NC	
75 Alpha-Terpineol	59		7.721					ND	
74 Naphthalene	128	7.749	7.751	-0.002	78	9786		0.0222	
76 4-Chloroaniline	127		7.778					ND	
77 2,6-Dichlorophenol	162		7.789					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
78 Hexachloropropene	213		7.827					ND	
79 Hexachlorobutadiene	225		7.842					ND	
80 Benzeneacetic acid (TIC)	91		7.852					ND	
82 N-Nitrosodi-n-butylamine	84		8.030					ND	
81 Quinoline	129		8.030					ND	
83 p-Phenylene diamine	108		8.067					ND	
84 Caprolactam	113		8.072					ND	
85 4-Chloro-3-methylphenol	107		8.163					ND	
86 Safrole, Total	162		8.227					ND	
198 NVF-400	82	8.256	8.268	-0.018	0	263		0.000640	
281 2,4,5-Trichlorotoluene	159		8.318					ND	
87 2-Methylnaphthalene	142	8.331	8.334	-0.003	85	2638		0.008863	
88 Phthalic anhydride	104		8.362					ND	
89 1-Methylnaphthalene	142	8.416	8.419	-0.003	90	1847		0.006483	
90 Hexachlorocyclopentadiene	237		8.462					ND	
258 CU-600	58	8.459	8.463	-0.009	0	152		0.000370	
91 1,2,4,5-Tetrachlorobenzene	216		8.472					ND	
275 Isosafrole Peak 1	162		8.478					ND	
93 2,4,6-Trichlorophenol	196		8.558					ND	
284 2,3-Dichlorobenzeneamine	161	8.630	8.560	0.065	49	127		NC	
94 2,4,5-Trichlorophenol	196		8.601					ND	
277 Isosafrole Peak 2	162		8.665					ND	U
95 Isosafrole	162		8.665					ND	U
96 1,1'-Biphenyl	154		8.713					ND	
285 1,2,3,4 -Tetrachlorobenzen	216		8.745					ND	
97 2-Chloronaphthalene	162		8.750					ND	
99 1-Chloronaphthalene	162		8.772					ND	U
100 2-Nitroaniline	65		8.814					ND	
102 1,4-Naphthoquinone	158		8.884					ND	
103 Dicyclohexylamine	138		8.886					ND	
104 1,4-Dinitrobenzene	168		8.916					ND	
101 Phenyl ether	170	8.886	8.921	-0.040	1	421		NC	
105 Dimethyl phthalate	163		8.937					ND	
106 1,3-Dinitrobenzene	168		8.985					ND	
107 2,6-Dinitrotoluene	165		9.001					ND	
108 Acenaphthylene	152		9.108					ND	
109 3-Nitroaniline	138		9.162					ND	
111 2,4-Dinitrophenol	184		9.242					ND	
110 Acenaphthene	153		9.252					ND	
112 4-Nitrophenol	109		9.279					ND	
114 2,4-Dinitrotoluene	165		9.349					ND	
113 Pentachlorobenzene	250		9.365					ND	
115 Dibenzofuran	168		9.391					ND	
117 2,3,5,6-Tetrachlorophenol	232		9.456					ND	
116 1-Naphthylamine	143		9.456					ND	
118 2,3,4,6-Tetrachlorophenol	232		9.487					ND	
121 Hexadecane	57	9.506	9.509	-0.003	80	2757		0.0169	
120 Diethyl phthalate	149		9.520					ND	
119 2-Naphthylamine	143		9.520					ND	
122 Thionazin	97		9.595					ND	
123 4-Chlorophenyl phenyl ethe	204		9.653					ND	
128 Tributyl phosphate	99		9.666					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
125 N-Nitro-o-toluidine	152		9.670					ND	
126 4-Nitroaniline	138		9.680					ND	
124 Fluorene	166		9.685					ND	
127 4,6-Dinitro-2-methylphenol	198		9.701					ND	
130 N-Nitrosodiphenylamine	169		9.749					ND	
129 Diphenylamine	169		9.749					ND	
131 1,2-Diphenylhydrazine	77		9.792					ND	U
132 Azobenzene	77		9.792					ND	
134 Sulfotepp	322		9.835					ND	
133 Benzophenone	105	9.800	9.836	-0.042	67	1319		NC	
135 1,3,5-Trinitrobenzene	213		9.942					ND	
278 Diallate Peak 1	86		9.974					ND	
136 Diallate	86		9.974					ND	
138 Phenacetin	108		9.979					ND	
137 Phorate	75		9.985					ND	
280 Diallate Peak 2	86		10.054					ND	
139 4-Bromophenyl phenyl ether	248		10.070					ND	
141 Dimethoate	87		10.134					ND	
142 Simazine	201		10.141					ND	
140 Hexachlorobenzene	284		10.161					ND	
143 Atrazine	200		10.166					ND	
98 n,n'-Dimethylaniline	120	10.233	10.234	-0.008	1	293		NC	
148 n-Octadecane	57		10.278					ND	U
144 4-Aminobiphenyl	169		10.289					ND	
147 Pronamide	173		10.305					ND	
145 Pentachlorophenol	266		10.316					ND	
146 Pentachloronitrobenzene	237		10.327					ND	
149 Disulfoton	88		10.423					ND	
150 Dinoseb	211		10.434					ND	
151 Phenanthrene	178		10.508					ND	U
152 Anthracene	178		10.551					ND	U
153 Carbazole	167		10.668					ND	
154 Alachlor	160		10.745					ND	U
155 Methyl parathion	109		10.749					ND	
157 Di-n-butyl phthalate	149	10.884	10.887	-0.003	98	6420		0.0142	
163 Octachlorostyrene	308		10.893					ND	
288 2-Methylantracene	192	10.991	10.990	-0.008	1	346		NC	
158 Ethyl Parathion	97		11.069					ND	
159 4-Nitroquinoline-1-oxide	190		11.155					ND	
161 Methapyrilene	58		11.171					ND	
160 Anthraquinone	180		11.183					ND	
162 Isodrin	193		11.427					ND	
164 Fluoranthene	202		11.566					ND	U
165 1-Hydroxyanthraquinone	224		11.594					ND	
166 Benzidine	184		11.651					ND	
167 Pyrene	202		11.811					ND	
276 Aramite Peak 1	185		11.828					ND	U
279 Aramite Peak 2	185		11.903					ND	U
168 Aramite, Total	185		11.903					ND	
170 p-Dimethylamino azobenzene	120		12.052					ND	
171 Chlorobenzilate	251		12.084					ND	
169 1,4-Dihydroxyanthraquinone	240		12.086					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
172 Famphur	218		12.369					ND	
175 9-Octadecenamide	59		12.396					ND	
174 Butyl benzyl phthalate	149	12.412	12.415	-0.003	90	2237		0.0796	
173 3,3'-Dimethylbenzidine	212		12.442					ND	
176 Kepone	272		12.581					ND	
156 2,3,7,8-TCDD	322		12.736					ND	
177 2-Acetylaminofluorene	181		12.779					ND	
181 Bis(2-ethylhexyl) phthalat	149	13.133	13.136	-0.003	88	2735		0.1089	
178 4,4'-Methylene bis(2-chlor	231		13.169					ND	
179 3,3'-Dichlorobenzidine	252		13.184					ND	
180 Benzo[a]anthracene	228		13.264					ND	
182 Chrysene	228		13.323					ND	
183 6-Methylchrysene	242		13.986					ND	U
184 Di-n-octyl phthalate	149		14.114					ND	
185 7,12-Dimethylbenz(a)anthra	256		14.900					ND	
186 Benzo[b]fluoranthene	252		14.931					ND	
187 Benzo[k]fluoranthene	252		14.974					ND	
192 Hexachlorophene	196		15.287					ND	
283 Benzo[e]pyrene	252	15.420	15.422	-0.002	1	194		NC	
189 Benzo[a]pyrene	252		15.476					ND	
190 3-Methylcholanthrene	268		16.032					ND	
191 Dibenz[a,h]acridine	279		17.015					ND	U
193 Indeno[1,2,3-cd]pyrene	276		17.511					ND	
194 Dibenz(a,h)anthracene	278		17.517					ND	
195 Benzo[g,h,i]perylene	276		18.088					ND	
199 CAG-800	149	19.672	19.661	-0.003	0	185		0.000450	
256 CN-500	112		19.994					ND	
197 Dibenzo[a,e]pyrene	302		22.589					ND	
216 5-Methyl-o-Anisidine TIC	1		0.195					ND	
249 alpha,alpha-Dimethyl phene	1		0.195					ND	
206 2,4-Toluene diamine	1		0.195					ND	
213 4,4'-Methylene bis(2-chlor	1		0.195					ND	
225 Dibenz(a,i)pyrene	1		0.195					ND	
234 Benzo[j]fluoranthene	1		0.195					ND	
219 Photomirex TIC	1		0.195					ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195					ND	
209 2,4-Dichlorotoluene TIC	1		0.195					ND	
218 3-Chlorobenzotrifluoride T	1		0.195					ND	
212 Hexamethyldisiloxane TIC	1		0.195					ND	
244 Pendimethalin	1		0.195					ND	
242 1,3-phenylenediamine TIC	1		0.195					ND	
235 1,4-Dioxane TIC	1		0.195					ND	
224 1-Bromopropane	1		0.195					ND	
211 Pendimethalin (TIC)	1		0.195					ND	
236 4-Chloro-3-nitro-alpha,alp	1		0.195					ND	
210 Dibenzo[a,h]pyrene	1		0.195					ND	
229 o-Anisidine TIC	1		0.195					ND	
238 Phenylacetic Acid	1		0.195					ND	
227 Dibenz[a,j]acridine	279		0.195					ND	
207 2,6-Dichlorotoluene	1		0.195					ND	
232 4-tert-Octylphenol	1		0.195					ND	
214 1,2,3-Trimethylbenzene	105		0.195					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4-Chlorobenzotrifluoride T	1		0.195					ND	
204 2,6-Dichlorotoluene TIC	1		0.195					ND	
205 Phenylmercaptan	110		0.195					ND	
243 2,4-Xylidine TIC	1		0.195					ND	
241 5-Methyl-o-Anisidine	1		0.195					ND	
220 Tetramethyl lead TIC	1		0.195					ND	
215 trans Azobenzene (TIC)	1		0.195					ND	
222 2-Chlorobenzotrifluoride T	1		0.195					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.195					ND	
247 Benefin (TIC)	1		0.195					ND	
240 Prometryn (TIC)	1		0.195					ND	
230 2,3-Dichlorophenol	1		0.195					ND	
254 4,4'-DDD	235		12.214					ND	
S 261 Total Cresols	1		0.195					ND	
S 260 Chlorotoluene N.O.S	1		0.195					ND	
S 264 EPH Adjustment 1	1		0.195					ND	
S 263 3-Methylphenol	1		0.195					ND	
S 259 Chlorobenzotrifluoride N.O	1		0.195					ND	
S 262 3 & 4 Methylphenol	108		0.195					ND	
T 274 2-Aminopyridine TIC	99	5.505	5.558	-0.053	33	4146		0.0383	
T 231 1-Methylnaphthalene (TIC)	142	8.416	8.499	-0.089	72	1847		0.004495	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973Y\\20180419-70775.b\\Y016991.D

Injection Date: 20-Apr-2018 06:39:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: MB 480-409528/1-A

Worklist Smp#: 14

Client ID:

Injection Vol: 2.0 ul

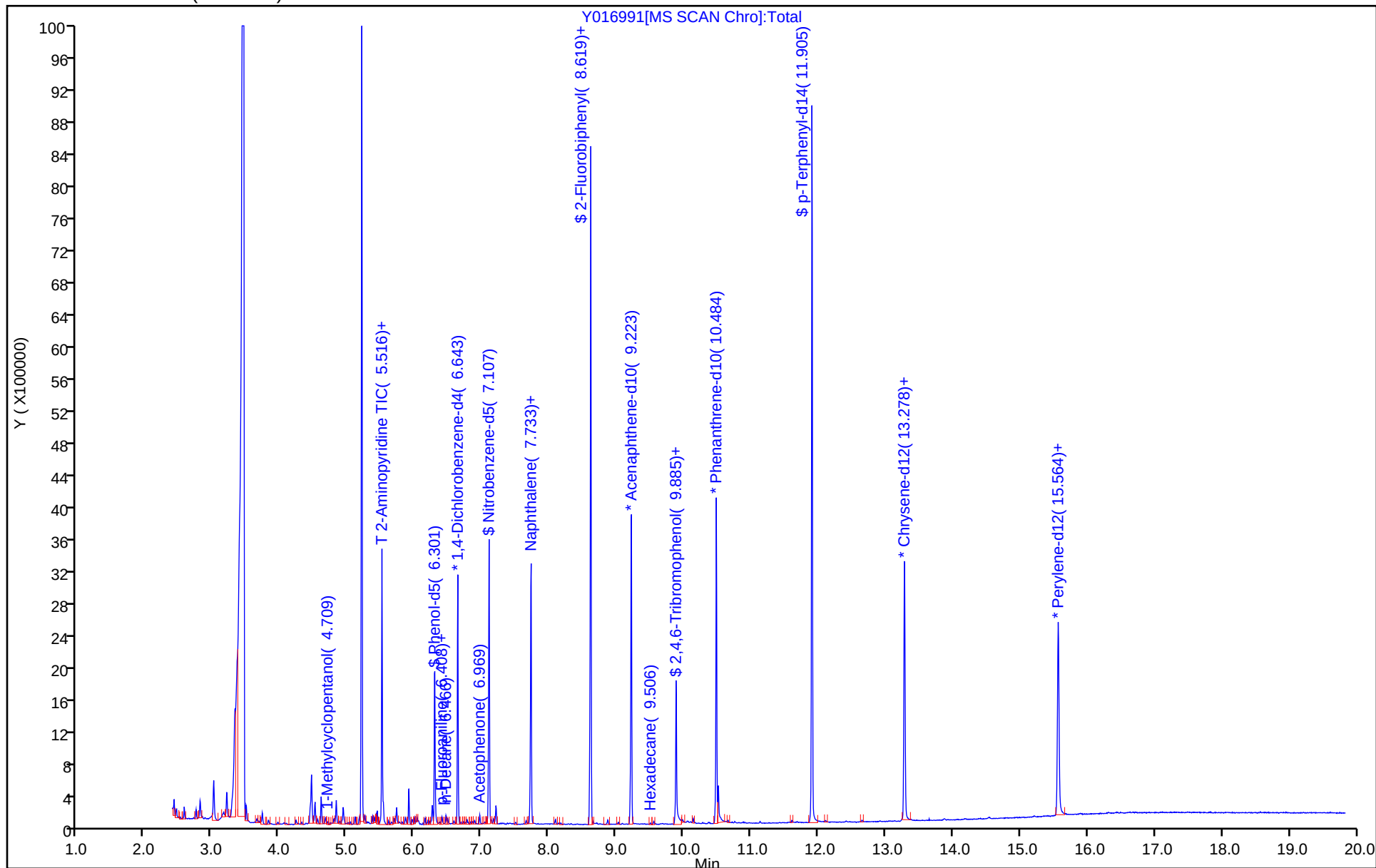
Dil. Factor: 1.0000

ALS Bottle#: 40

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016991.D

Injection Date: 20-Apr-2018 06:39:30

Instrument ID: HP5973Y

Lims ID: MB 480-409528/1-A

Client ID:

Operator ID: BS

ALS Bottle#:

40

Worklist Smp#: 14

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

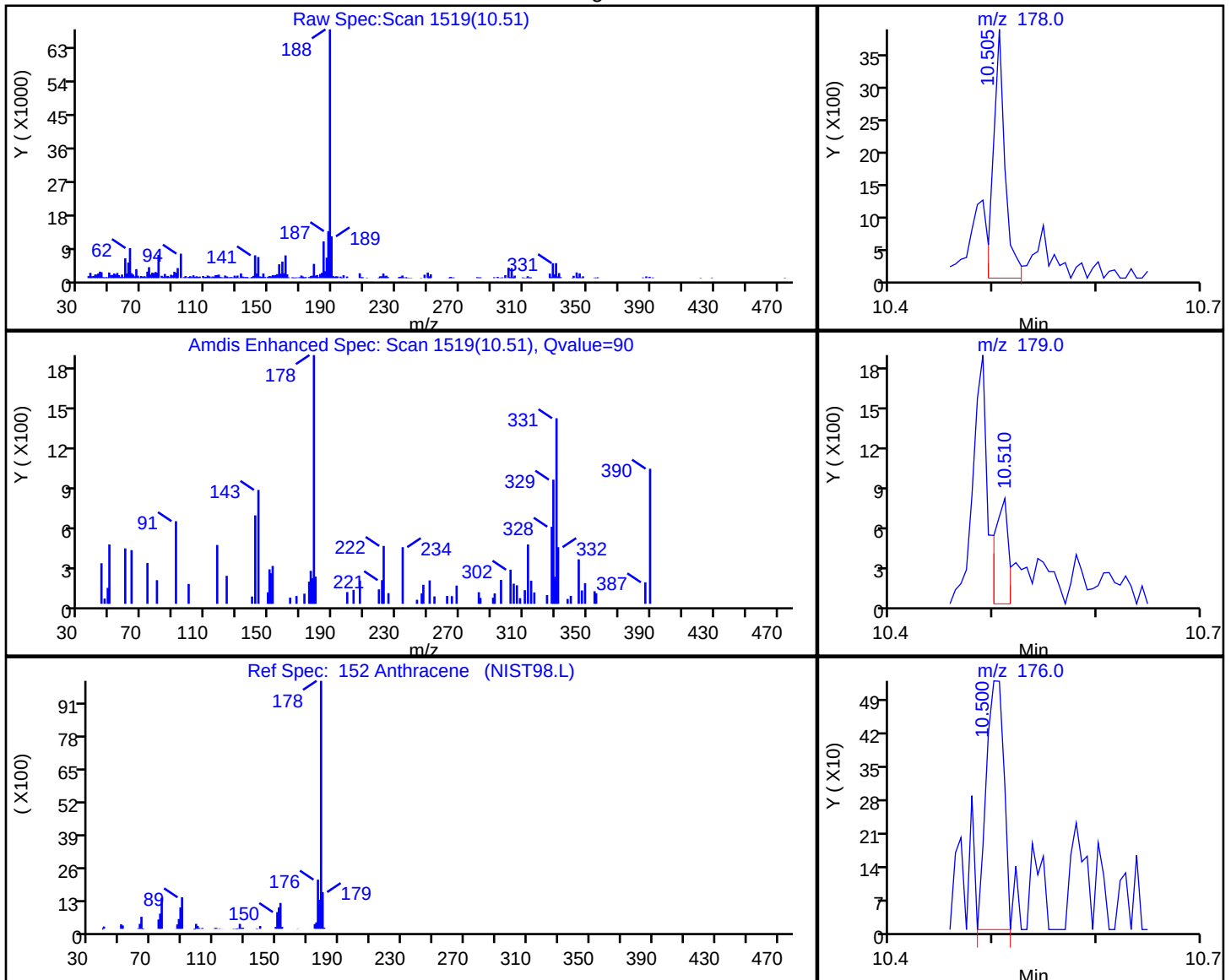
Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
10.51	178.00	2959	0.006407
10.51	179.00	709	
10.50	176.00	619	

Reviewer: schickr, 20-Apr-2018 11:41:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016991.D

Injection Date: 20-Apr-2018 06:39:30

Instrument ID: HP5973Y

Lims ID: MB 480-409528/1-A

Client ID:

Operator ID: BS

ALS Bottle#:

40

Worklist Smp#: 14

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

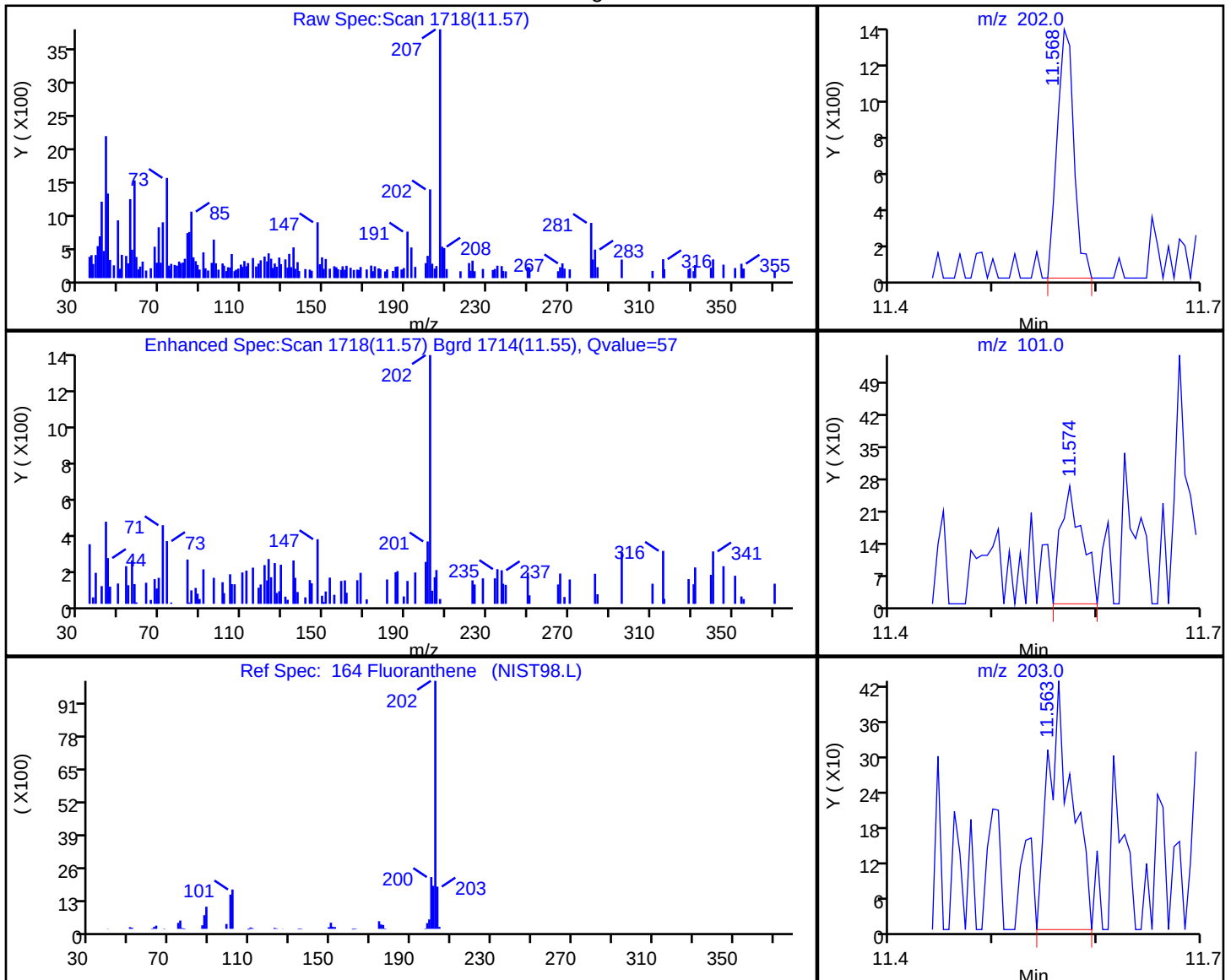
Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

164 Fluoranthene, CAS: 206-44-0

Processing Results



RT	Mass	Response	Amount
11.57	202.00	1519	0.003120
11.57	101.00	377	
11.56	203.00	678	

Reviewer: schickr, 20-Apr-2018 11:41:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016991.D

Injection Date: 20-Apr-2018 06:39:30

Instrument ID: HP5973Y

Lims ID: MB 480-409528/1-A

Client ID:

Operator ID: BS

ALS Bottle#:

40

Worklist Smp#: 14

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

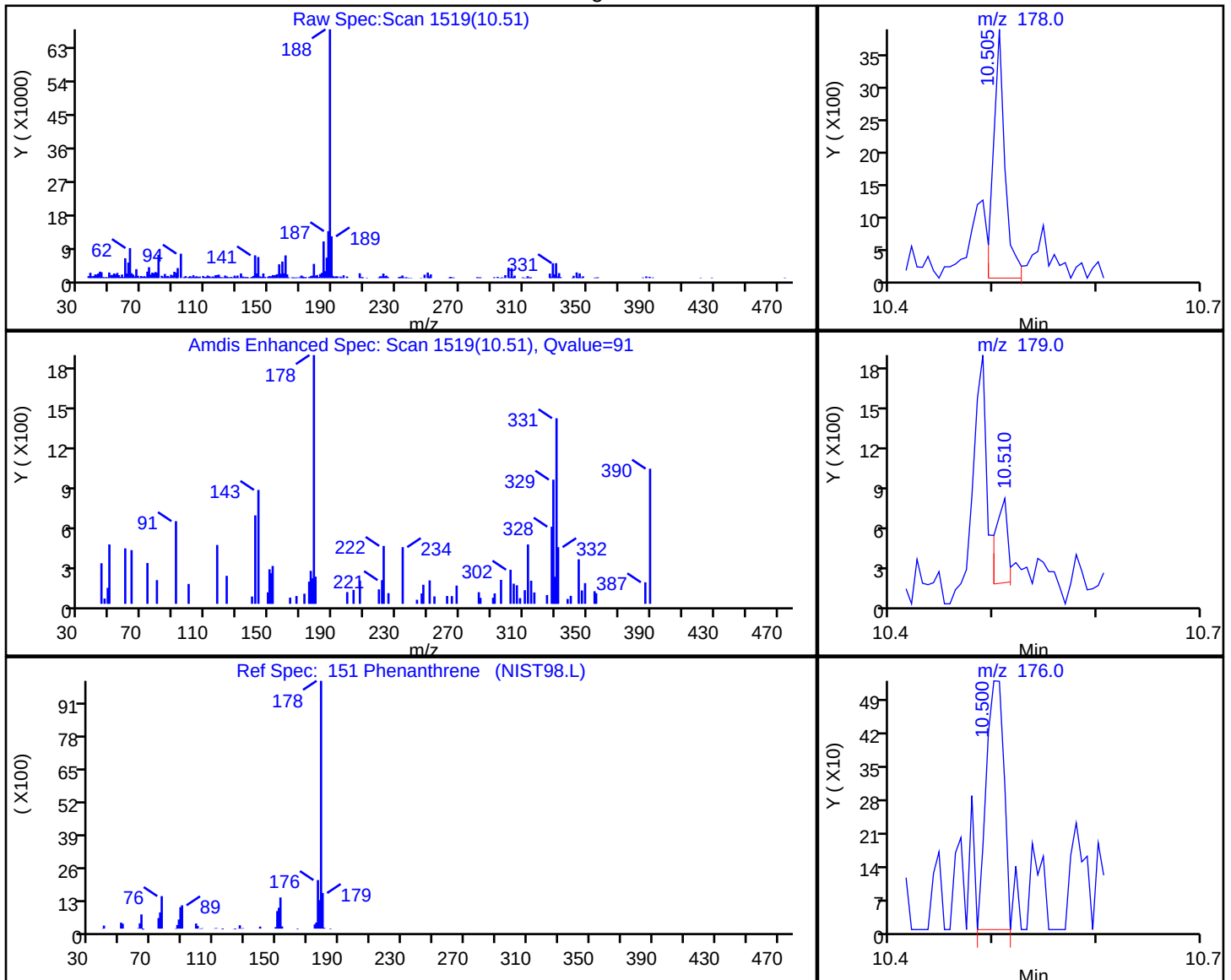
Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

151 Phenanthrene, CAS: 85-01-8

Processing Results



RT	Mass	Response	Amount
10.51	178.00	2959	0.006356
10.51	179.00	511	
10.50	176.00	619	

Reviewer: schickr, 20-Apr-2018 11:41:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-409870/1-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>W3503.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: _____
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/21/2018 16:15</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	0.50	U	0.50	0.38
83-32-9	Acenaphthene	0.50	U	0.50	0.30
208-96-8	Acenaphthylene	0.50	U	0.50	0.34
120-12-7	Anthracene	0.50	U	0.50	0.39
56-55-3	Benzo (a) anthracene	0.50	U	0.50	0.40
50-32-8	Benzo (a) pyrene	0.50	U	0.50	0.33
205-99-2	Benzo (b) fluoranthene	0.50	U	0.50	0.30
191-24-2	Benzo (g,h,i) perylene	0.50	U	0.50	0.37
207-08-9	Benzo (k) fluoranthene	0.50	U	0.50	0.085
218-01-9	Chrysene	0.50	U	0.50	0.32
53-70-3	Dibenz (a,h) anthracene	0.50	U	0.50	0.33
206-44-0	Fluoranthene	0.50	U	0.50	0.36
86-73-7	Fluorene	0.50	U	0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	0.50	U	0.50	0.44
91-20-3	Naphthalene	0.50	U	0.50	0.42
85-01-8	Phenanthrene	0.50	U	0.50	0.38
129-00-0	Pyrene	0.50	U	0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	99		48-120
4165-60-0	Nitrobenzene-d5	94		46-120
1718-51-0	p-Terphenyl-d14	109		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3503.D
 Lims ID: MB 480-409870/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Apr-2018 16:15:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-007
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:20:31 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:20:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	440431	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1705606	4.00	4.00	
* 3 Acenaphthene-d10	164	8.955	8.961	-0.006	96	824318	4.00	4.00	
* 4 Phenanthrene-d10	188	10.205	10.205	0.000	98	1351641	4.00	4.00	
* 5 Chrysene-d12	240	12.823	12.828	-0.005	99	1097646	4.00	4.00	
* 6 Perylene-d12	264	14.965	14.965	0.000	97	1121866	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.269	5.248	0.021	92	878511	8.00	6.13	
\$ 8 Phenol-d5	99	6.065	6.060	0.005	0	851849	8.00	4.71	
\$ 9 Nitrobenzene-d5	82	6.861	6.861	-0.005	88	1195499	8.00	7.50	
\$ 10 2-Fluorobiphenyl	172	8.367	8.363	-0.001	99	2389119	8.00	7.93	
\$ 11 2,4,6-Tribromophenol	330	9.617	9.618	-0.001	93	204317	8.00	6.49	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	2126537	8.00	8.69	
13 o-Anisidine	1		0.750					ND	
14 1,4-Dioxane	88		3.378					ND	
15 N-Nitrosodimethylamine	42		3.800					ND	
16 Pyridine	52		3.837					ND	
19 1-Methylcyclopentanol	71		4.660					ND	
20 2-Picoline	93		4.703					ND	
21 N-Nitrosomethylethylamine	88		4.815					ND	
25 Acrylamide	44	5.071	5.082	-0.011	6	170		0.1031	
24 Methyl methanesulfonate	80		5.103					ND	
22 2-Chlorobenzotrifluoride	180		5.205					ND	
23 4-Chlorobenzotrifluoride	180		5.274					ND	
26 n,n'-Dimethylacetamide	87		5.338					ND	
30 N-Nitrosodiethylamine	102		5.472					ND	
27 4-Chloropyridine	78		5.536					ND	
28 3-Chloropyridine	78		5.600					ND	
29 3-Chlorobenzotrifluoride	180		5.675					ND	
32 Ethyl methanesulfonate	79		5.728					ND	
31 2-Chloropyridine	78		5.958					ND	
36 Benzaldehyde	77	6.022	6.022	0.000	78	7020		0.0614	
37 Phenol	94		6.070					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
33 2-Chlorotoluene	91		6.113					ND	
38 Aniline	93		6.113					ND	
34 3-Chlorotoluene	91	6.134	6.134	0.000	52	567		0.002038	
40 Bis(2-chloroethyl)ether	93		6.151					ND	
35 4-Chlorotoluene	91	6.134	6.166	-0.032	51	512		0.001926	
39 Pentachloroethane	167		6.172					ND	
41 2-Chlorophenol	128		6.220					ND	
43 n-Decane	57	6.230	6.231	-0.001	95	21955		0.1129	
44 1,3-Dichlorobenzene	146		6.348					ND	
45 1,4-Dichlorobenzene	146		6.412					ND	
42 p-Fluoroaniline	111	6.444	6.439	0.005	53	186		0.9589	
46 Benzyl alcohol	108		6.503					ND	
47 1,2-Dichlorobenzene	146		6.546					ND	
49 2-Methylphenol	108		6.589					ND	
50 2,2'-oxybis[1-chloropropan	45		6.605					ND	
66 n,n'-Dimethylaniline	120	6.588	6.607	-0.019	49	269		NC	
48 Indene	115	6.620	6.616	-0.001	87	8483		0.0359	
56 4-Methylphenol	108		6.712					ND	
55 N-Nitrosodi-n-propylamine	70		6.717					ND	
52 N-Nitrosopyrrolidine	100		6.722					ND	
53 Acetophenone	105	6.727	6.727	-0.001	95	14073		0.0607	
54 N-Nitrosomorpholine	56		6.749					ND	
57 2-Toluidine	106		6.781					ND	
58 4-Methylbenzenamine	106		6.781					ND	
59 Hexachloroethane	117		6.840					ND	
61 Nitrobenzene	77		6.882					ND	
51 N-Methylaniline	106		6.888					ND	
62 N-Nitrosopiperidine	114		7.021					ND	
63 Isophorone	82		7.075					ND	U
60 2,6-Dichloropyridine	112		7.096					ND	
65 2-Chloroaniline	127		7.134					ND	
67 2-Nitrophenol	139		7.150					ND	U
68 2,4-Dimethylphenol	107		7.160					ND	
70 o,o',o''-Triethylphosphoro	198		7.219					ND	
69 Tetraethyl lead	237		7.230					ND	
71 Bis(2-chloroethoxy)methane	93		7.235					ND	
72 Benzoic acid	105		7.262					ND	
240 2,4-Dichlorotoluene	125		7.283					ND	
64 Benzeneacetone nitrile	117		7.310					ND	
74 2,4-Dichlorophenol	162		7.353					ND	
73 alpha,alpha-Dimethyl phene	58		7.363					ND	
231 1,3,5-Trichlorobenzene	180		7.369					ND	
75 1,2,4-Trichlorobenzene	180		7.427					ND	
77 Alpha-Terpineol	59		7.497					ND	
76 Naphthalene	128	7.497	7.497	-0.005	95	9434		0.0206	
78 4-Chloroaniline	127		7.529					ND	
79 2,6-Dichlorophenol	162		7.540					ND	
80 Hexachloropropene	213		7.593					ND	
81 Hexachlorobutadiene	225		7.593					ND	
222 4-Chlorophenol	128		7.614					ND	
83 Quinoline	129		7.791					ND	
86 N-Nitrosodi-n-butylamine	84	7.790	7.796	-0.011	62	1144		0.0828	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
84 Caprolactam	113		7.823					ND	U
85 p-Phenylene diamine	108		7.833					ND	
82 Benzeneacetic acid (TIC)	91		7.844					ND	
87 4-Chloro-3-methylphenol	107		7.914					ND	
88 Safrole, Total	162		7.999					ND	
89 2-Methylnaphthalene	142	8.074	8.068	0.000	91	3724		0.0116	
90 Phthalic anhydride	104		8.127					ND	
91 1-Methylnaphthalene	142		8.165					ND	U
93 Hexachlorocyclopentadiene	237		8.207					ND	
92 1,2,4,5-Tetrachlorobenzene	216		8.218					ND	
211 2,4,5-Trichlorotoluene	159	8.319	8.245	0.074	1	41		NC	
288 Isosafrole Peak 1	162		8.245					ND	
94 2,4,6-Trichlorophenol	196		8.304					ND	
247 2,3-Dichlorobenzenamine	161	8.341	8.319	0.016	10	42		NC	
95 2,4,5-Trichlorophenol	196		8.341					ND	
96 Isosafrole	162		8.432					ND	
290 Isosafrole Peak 2	162		8.432					ND	
97 1,1'-Biphenyl	154		8.458					ND	
98 2-Chloronaphthalene	162		8.490					ND	
99 1-Chloronaphthalene	162	8.490	8.528	-0.043	1	207		0.000772	
100 2-Nitroaniline	65		8.560					ND	
101 1,4-Naphthoquinone	158		8.645					ND	
102 Dicyclohexylamine	138		8.651					ND	
207 1,2,3,4 -Tetrachlorobenzen	216		8.667					ND	
103 1,4-Dinitrobenzene	168		8.677					ND	
104 Dimethyl phthalate	163		8.683					ND	
105 1,3-Dinitrobenzene	168		8.726					ND	
106 2,6-Dinitrotoluene	165		8.747					ND	U
107 Acenaphthylene	152		8.843					ND	
108 3-Nitroaniline	138		8.896					ND	
110 2,4-Dinitrophenol	184		8.982					ND	
109 Acenaphthene	153		8.987					ND	
111 4-Nitrophenol	109		9.019					ND	
113 2,4-Dinitrotoluene	165		9.089					ND	
112 Pentachlorobenzene	250		9.121					ND	
114 Dibenzofuran	168		9.126					ND	
116 2,3,5,6-Tetrachlorophenol	232		9.212					ND	
115 1-Naphthylamine	143		9.212					ND	
117 2,3,4,6-Tetrachlorophenol	232		9.228					ND	
120 Hexadecane	57		9.260					ND	U
119 Diethyl phthalate	149		9.265					ND	U
118 2-Naphthylamine	143		9.270					ND	
121 Thionazin	97		9.356					ND	
122 4-Chlorophenyl phenyl ethe	204		9.393					ND	
125 4-Nitroaniline	138		9.415					ND	
123 Fluorene	166		9.415					ND	
124 N-Nitro-o-toluidine	152		9.425					ND	
127 Tributyl phosphate	99		9.436					ND	
126 4,6-Dinitro-2-methylphenol	198		9.436					ND	
128 Diphenylamine	169		9.484					ND	
129 N-Nitrosodiphenylamine	169		9.484					ND	
131 Azobenzene	77		9.527					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
130 1,2-Diphenylhydrazine	77		9.527					ND	
132 Sulfotepp	322		9.602					ND	
133 1,3,5-Trinitrobenzene	213		9.703					ND	
135 Diallate	86		9.735					ND	
291 Diallate Peak 1	86		9.735					ND	
136 Phenacetin	108		9.741					ND	
134 Phorate	75		9.741					ND	
137 4-Bromophenyl phenyl ether	248		9.805					ND	
293 Diallate Peak 2	86		9.815					ND	
139 Dimethoate	87		9.890					ND	
138 Hexachlorobenzene	284		9.890					ND	
140 Simazine	201		9.901					ND	
141 Atrazine	200		9.906					ND	
146 n-Octadecane	57		10.024					ND	U
142 4-Aminobiphenyl	169		10.045					ND	
143 Pentachlorophenol	266		10.045					ND	
145 Pronamide	173		10.066					ND	
144 Pentachloronitrobenzene	237		10.077					ND	
155 CBF-400	214		10.173					ND	
147 Disulfoton	88	10.205	10.179	0.026	53	15129		0.1185	
148 Dinoseb	211		10.184					ND	
149 Phenanthrene	178		10.227					ND	
150 Anthracene	178		10.269					ND	
151 Carbazole	167		10.392					ND	
153 Alachlor	160		10.494					ND	
152 Methyl parathion	109		10.499					ND	
154 Di-n-butyl phthalate	149	10.616	10.617	-0.001	99	13190		0.0307	
163 Octachlorostyrene	308		10.697					ND	
156 Ethyl Parathion	97		10.814					ND	
157 4-Nitroquinoline-1-oxide	190		10.884					ND	
205 2-Methylantracene	192	10.900	10.891	0.000	1	295		NC	
159 Methapyrilene	58		10.910					ND	
158 Anthraquinone	180		10.910					ND	
160 Isodrin	193		11.135					ND	
161 Fluoranthene	202	11.242	11.242	0.000	94	1739		0.004437	
162 1-Hydroxyanthraquinone	224		11.295					ND	
164 Benzidine	184		11.327					ND	
165 Pyrene	202		11.466					ND	U
289 Aramite Peak 1	185	11.562	11.519	0.043	0	6988		0.2182	
176 CAG-800	149		11.569					ND	
166 Aramite, Total	185		11.594					ND	
292 Aramite Peak 2	185	11.594	11.594	0.000	0	164		0.0501	
168 p-Dimethylamino azobenzene	120		11.728					ND	
167 1,4-Dihydroxyanthraquinone	240		11.749					ND	
169 Chlorobenzilate	139		11.755					ND	
170 Famphur	218		12.022					ND	
182 NVF-400	82		12.025					ND	
172 Butyl benzyl phthalate	149	12.038	12.028	0.000	93	5808		0.0980	
173 9-Octadecenamide	72		12.048					ND	
171 3,3'-Dimethylbenzidine	212		12.091					ND	
174 Kepone	272		12.208					ND	
175 2-Acetylaminofluorene	181		12.396					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
180 Bis(2-ethylhexyl) phthalat	149		12.711					ND	U
177 3,3'-Dichlorobenzidine	252		12.738					ND	
178 4,4'-Methylene bis(2-chlor	231		12.759					ND	
179 Benzo[a]anthracene	228		12.812					ND	
181 Chrysene	228		12.860					ND	U
183 6-Methylchrysene	242		13.517					ND	
184 Di-n-octyl phthalate	149		13.630					ND	
186 Benzo[b]fluoranthene	252		14.367					ND	
185 7,12-Dimethylbenz(a)anthra	256		14.383					ND	
187 Benzo[k]fluoranthene	252		14.404					ND	
188 Hexachlorophene	196	14.628	14.648	-0.033	1	75		31.9	
189 Benzo[a]pyrene	252		14.880					ND	
206 Benzo[e]pyrene	252	15.243	15.193	0.037	1	167		NC	
190 3-Methylcholanthrene	252		15.457					ND	
192 Dibenz[a,h]acridine	279		16.327					ND	
193 Indeno[1,2,3-cd]pyrene	276		16.696					ND	
194 Dibenz(a,h)anthracene	278		16.707					ND	
195 Benzo[g,h,i]perylene	276		17.188					ND	
196 Dibenzo[a,e]pyrene	302		21.445					ND	
297 Ethylene Dibromide TIC	1		0.000					ND	
298 3-Nitro-4-Chlorobenzotrifl	1		0.000					ND	
299 3'-Bromoacetophenone TIC	1		0.000					ND	
307 1-Bromo-2-chloroethane TIC	1		0.000					ND	
295 1,3-Dibromobenzene TIC	1		0.000					ND	
296 1,4-Dibromobenzene TIC	1		0.000					ND	
300 4-Bromofluorobenzene TIC	1		0.000					ND	
304 1-Bromo-3-fluorobenzene TI	1		0.000					ND	
305 1-Bromo-4-ethylbenzene TIC	1		0.000					ND	
306 3-Amino-4-Chlorobenzotrifl	1		0.000					ND	
301 1,2-dichloro-4-(trifluorom	1		0.000					ND	
302 Fluorobenzene TIC	1		0.000					ND	
303 2-Bromopyridine TIC	1		0.000					ND	
208 Lidocaine	1		0.000					ND	
197 1,2,3-Trimethylbenzene	105		0.000					ND	
223 1-Bromopropane	1		0.750					ND	
221 Hexamethyldisiloxane TIC	1		0.750					ND	
220 Tetramethyl lead TIC	1		0.750					ND	
244 2,4-Toluene diamine	1		0.750					ND	
230 Dibenz(a,i)pyrene	1		0.750					ND	
243 2-Chlorobenzotrifluoride T	1		0.750					ND	
219 2,4-Xylidine TIC	1		0.750					ND	
214 2,3-Dichlorophenol	1		0.750					ND	
213 Prometryn (TIC)	1		0.750					ND	
212 trans Azobenzene (TIC)	1		0.750					ND	
218 Pendimethalin (TIC)	1		0.750					ND	
217 Dibenz[a,j]acridine	279		0.750					ND	
215 1,3-phenylenediamine TIC	1		0.750					ND	
235 Pendimethalin	1		0.750					ND	
233 o-Anisidine TIC	1		0.750					ND	
232 5-Methyl-o-Anisidine TIC	1		0.750					ND	
242 Tris(2,3-dibromopropyl)pho	1		0.750					ND	
237 4,4'-Methylene bis(2-chlor	1		0.750					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
238 Benefin (TIC)	1		0.750					ND	
226 Phenylmercaptan	110		0.750					ND	
225 2,4-Dichlorotoluene TIC	1		0.750					ND	
227 2,6-Dichlorotoluene TIC	1		0.750					ND	
241 5-Methyl-o-Anisidine	1		0.750					ND	
234 Dibenzo[a,h]pyrene	1		0.750					ND	
229 7H-Dibenzo[c,g]carbazole	1		0.750					ND	
224 4-Chlorobenzotrifluoride T	1		0.750					ND	
245 3-Chlorobenzotrifluoride T	1		0.750					ND	
246 Phenylacetic Acid	1		0.750					ND	
252 4,4'-DDD	235		11.893					ND	
254 CBF-500	161	11.968	11.968	0.000	0	209		NR	7
255 CN-500	112	14.885	14.880	0.005	0	69		NR	7
256 CU-600	58	14.981	14.949	0.032	0	356		NR	7
S 262 Total Cresols	1		0.750					ND	
S 257 3 & 4 Methylphenol	108		0.750					ND	
S 259 EPH Adjustment 1	1		0.750					ND	
S 258 3-Methylphenol	1		0.750					ND	
S 260 Chlorobenzotrifluoride N.O	1		0.750					ND	
S 261 Chlorotoluene N.O.S	1		0.750					ND	
T 287 2-Aminopyridine TIC	94	6.861	6.917	-0.056	32	1011		0.009182	
T 264 1-Methylnaphthalene (TIC)	142		7.857					ND	
T 294 2,3,7,8-TCDD TIC	322	9.617	10.694	-1.083	0	266		0.001291	
T 239 2,3,7,8-TCDD	322		10.700					ND	
T 265 Photomirex TIC	272	15.531	15.987	-0.469	1	115		0.000419	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180421-70843.b\\W3503.D

Injection Date: 21-Apr-2018 16:15:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: MB 480-409870/1-A

Worklist Smp#: 7

Client ID:

Injection Vol: 2.0 ul

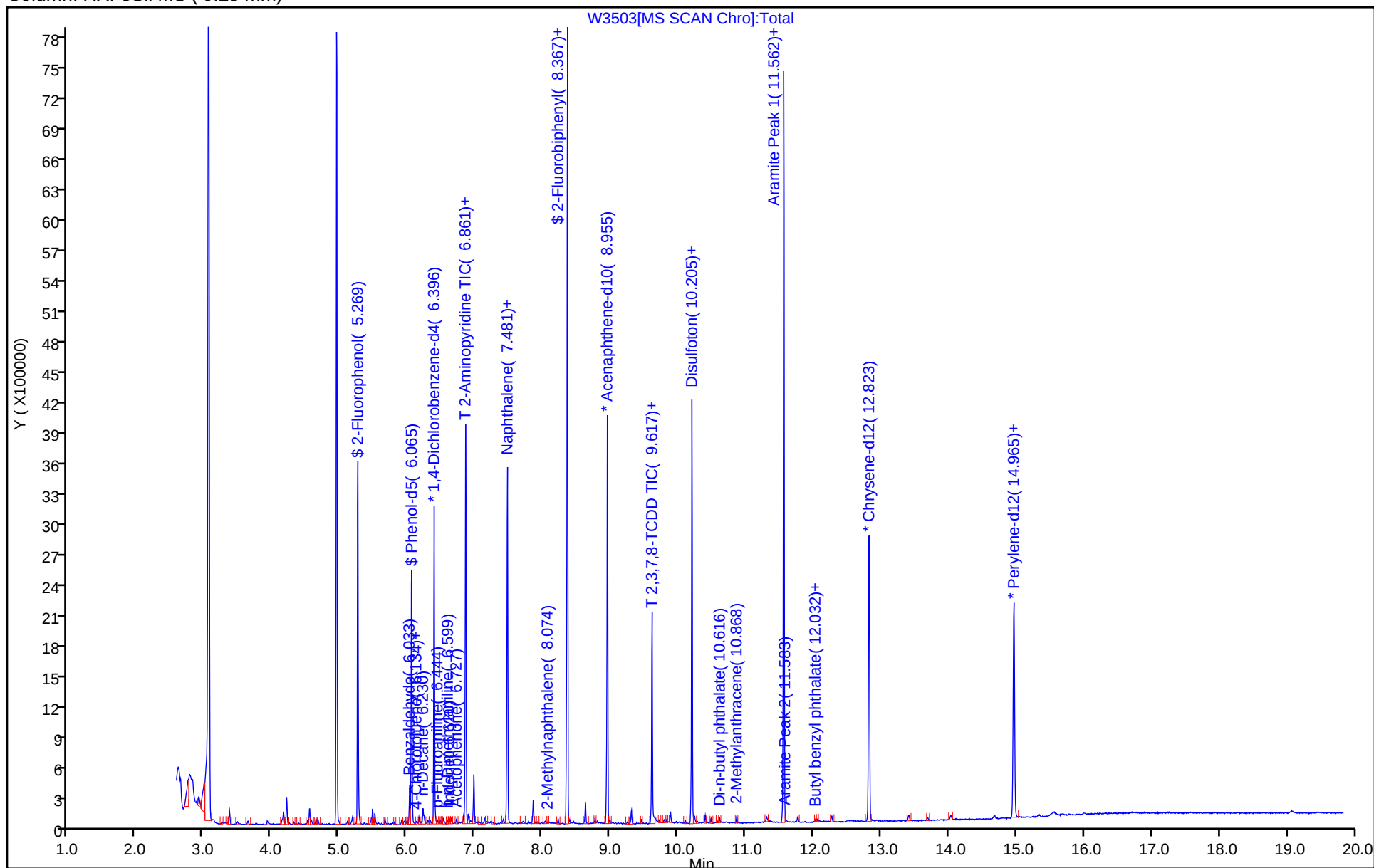
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3503.D

Injection Date: 21-Apr-2018 16:15:30

Instrument ID: HP5973W

Lims ID: MB 480-409870/1-A

Client ID:

Operator ID: PJQ

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

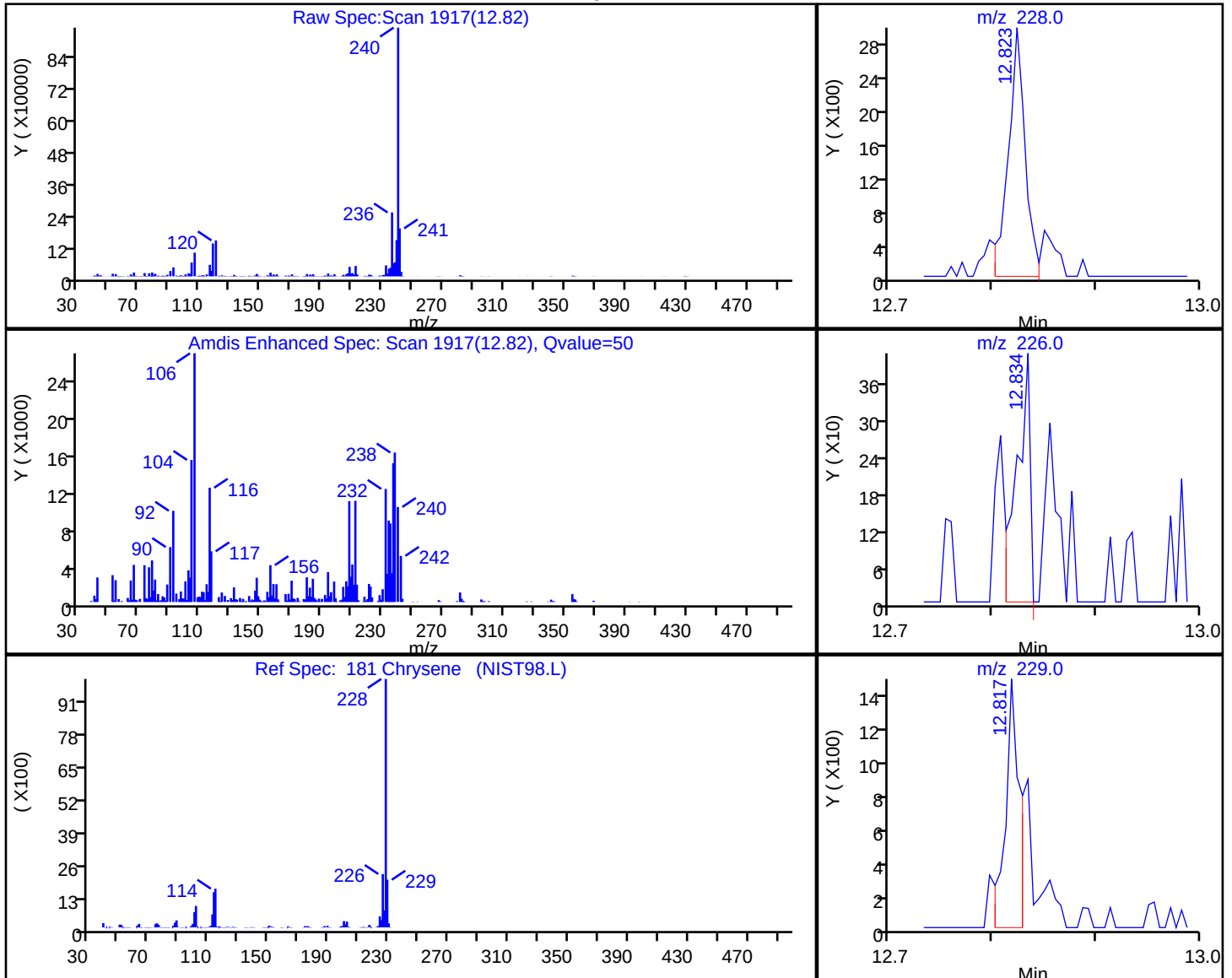
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

181 Chrysene, CAS: 218-01-9

Processing Results



RT	Mass	Response	Amount
12.82	228.00	3380	0.009642
12.83	226.00	364	
12.82	229.00	1357	

Reviewer: quirkp, 22-Apr-2018 10:20:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3503.D

Injection Date: 21-Apr-2018 16:15:30

Instrument ID: HP5973W

Lims ID: MB 480-409870/1-A

Client ID:

Operator ID: PJK

ALS Bottle#: 7

Worklist Smp#: 7

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: W-LVI-8270

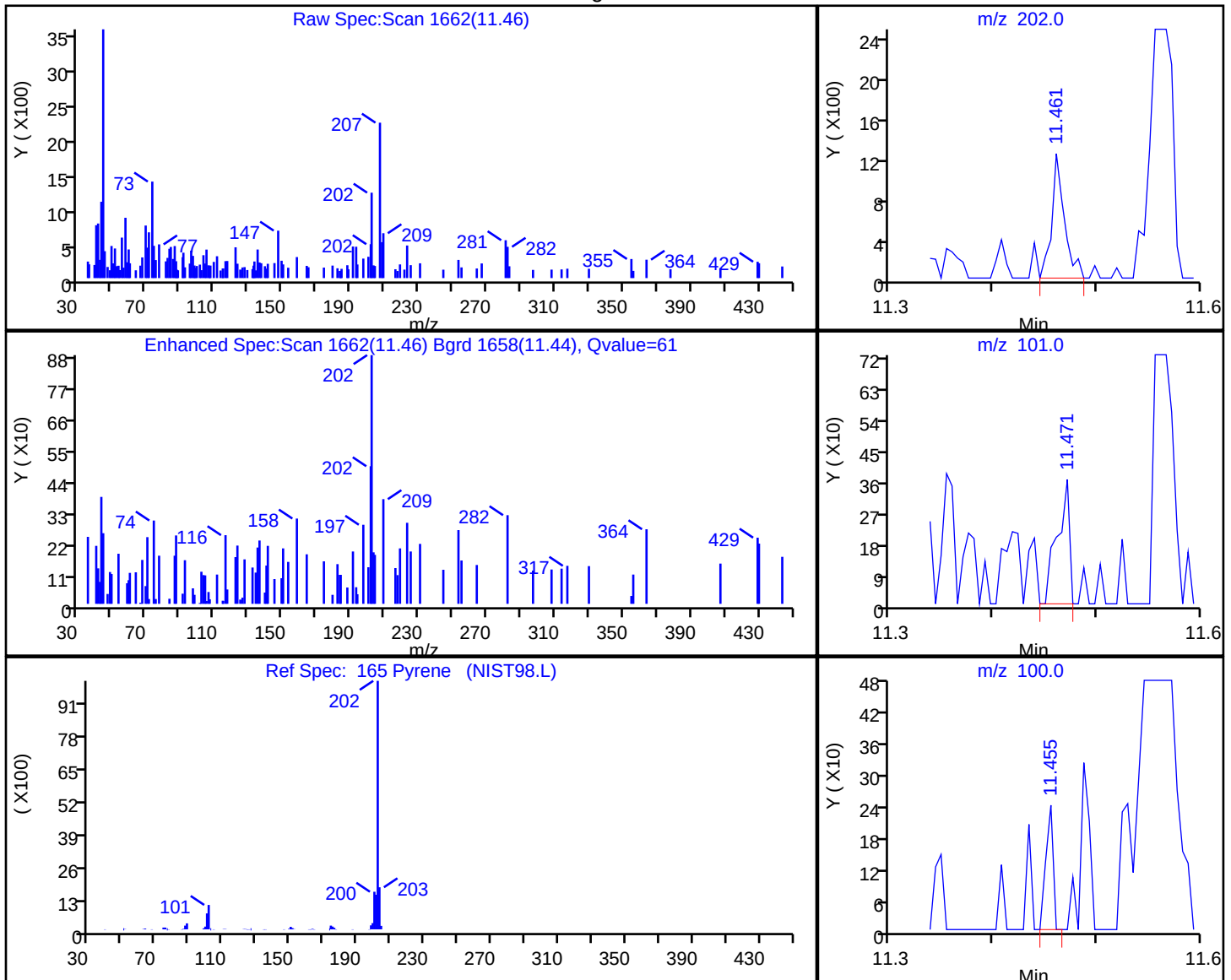
Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

165 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.46	202.00	1051	0.002613
11.47	101.00	297	
11.46	100.00	118	

Reviewer: quirkp, 22-Apr-2018 10:20:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 480-409528/2-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>Y016992.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: _____
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/18/2018 14:24</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/20/2018 07:08</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>409652</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	26.9		0.50	0.38
83-32-9	Acenaphthene	28.4		0.50	0.30
208-96-8	Acenaphthylene	29.4		0.50	0.34
120-12-7	Anthracene	30.8		0.50	0.39
56-55-3	Benzo (a) anthracene	32.6		0.50	0.40
50-32-8	Benzo (a) pyrene	31.7		0.50	0.33
205-99-2	Benzo (b) fluoranthene	31.3		0.50	0.30
191-24-2	Benzo (g,h,i) perylene	32.9		0.50	0.37
207-08-9	Benzo (k) fluoranthene	29.6		0.50	0.085
218-01-9	Chrysene	32.4		0.50	0.32
53-70-3	Dibenz (a,h) anthracene	33.0		0.50	0.33
206-44-0	Fluoranthene	32.3		0.50	0.36
86-73-7	Fluorene	29.7		0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	33.2		0.50	0.44
91-20-3	Naphthalene	25.8		0.50	0.42
85-01-8	Phenanthrene	30.9		0.50	0.38
129-00-0	Pyrene	32.4		0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	90		48-120
4165-60-0	Nitrobenzene-d5	86		46-120
1718-51-0	p-Terphenyl-d14	102		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016992.D
 Lims ID: LCS 480-409528/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Apr-2018 07:08:30 ALS Bottle#: 41 Worklist Smp#: 15
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-015
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:42:08 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:42:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.641	6.640	0.001	94	438915	4.00	4.00	a
* 2 Naphthalene-d8	136	7.731	7.735	-0.004	99	1671659	4.00	4.00	
* 3 Acenaphthene-d10	164	9.221	9.226	-0.005	96	907519	4.00	4.00	
* 4 Phenanthrene-d10	188	10.487	10.486	0.001	97	1739578	4.00	4.00	
* 5 Chrysene-d12	240	13.287	13.286	0.001	99	1612306	4.00	4.00	
* 6 Perylene-d12	264	15.568	15.567	0.001	98	1604108	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.519	5.497	0.022	92	733895	8.00	5.81	
\$ 8 Phenol-d5	99	6.299	6.298	0.001	91	720914	8.00	4.60	
\$ 9 Nitrobenzene-d5	82	7.111	7.110	0.001	89	1085288	8.00	6.86	
\$ 10 2-Fluorobiphenyl	172	8.623	8.622	0.001	99	2452302	8.00	7.19	
\$ 11 2,4,6-Tribromophenol	330	9.889	9.888	0.001	93	312527	8.00	7.35	
\$ 12 p-Terphenyl-d14	244	11.908	11.907	0.001	99	2844818	8.00	8.19	
13 1,4-Dioxane	88	3.820	3.820	0.091	95	249015	8.00	4.80	a
14 N-Nitrosodimethylamine	42	4.168	4.113	0.055	91	408161	8.00	5.51	
15 Pyridine	52	4.226	4.226	0.070	92	955009	16.0	9.85	a
35 Benzaldehyde	77	6.267	6.266	0.001	96	1191611	16.0	10.6	
37 Phenol	94	6.310	6.309	0.001	98	793080	8.00	4.74	
36 Aniline	93	6.352	6.357	-0.005	97	897472	8.00	4.65	
39 Bis(2-chloroethyl)ether	93	6.385	6.389	-0.005	95	1009466	8.00	7.36	
40 2-Chlorophenol	128	6.470	6.469	0.001	97	991963	8.00	6.84	
41 n-Decane	57	6.470	6.469	0.001	93	679905	8.00	4.66	
43 1,3-Dichlorobenzene	146	6.598	6.597	0.001	99	994080	8.00	5.64	
44 1,4-Dichlorobenzene	146	6.657	6.656	0.001	95	1038215	8.00	5.75	
45 Benzyl alcohol	108	6.748	6.747	0.001	92	506138	8.00	5.78	
46 1,2-Dichlorobenzene	146	6.796	6.795	0.001	98	1010012	8.00	5.91	
48 2-Methylphenol	108	6.828	6.827	0.001	95	871498	8.00	6.81	
49 2,2'-oxybis[1-chloropropan	45	6.844	6.843	0.001	92	1295561	8.00	6.86	
47 Indene	115	6.865	6.870	-0.005	90	11161615	64.0	45.7	Ee
57 4-Methylphenol	108	6.951	6.950	0.001	94	875034	8.00	6.53	
53 N-Nitrosodi-n-propylamine	70	6.956	6.955	0.001	91	701807	8.00	7.32	
52 Acetophenone	105	6.972	6.971	0.001	97	1359530	8.00	7.17	
58 Hexachloroethane	117	7.090	7.089	0.001	90	346507	8.00	5.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Nitrobenzene	77	7.127	7.126	0.001	88	1011924	8.00	6.93	
62 Isophorone	82	7.319	7.319	0.000	99	1799878	8.00	7.47	
64 2-Nitrophenol	139	7.394	7.399	-0.005	95	563152	8.00	6.77	
66 2,4-Dimethylphenol	107	7.405	7.404	0.001	94	993950	8.00	7.20	
69 Bis(2-chloroethoxy)methane	93	7.469	7.473	-0.004	98	1155728	8.00	7.13	
70 Benzoic acid	105	7.522	7.495	0.027	89	3101013	64.0	33.0	
72 2,4-Dichlorophenol	162	7.603	7.599	0.000	91	948564	8.00	7.08	
73 1,2,4-Trichlorobenzene	180	7.677	7.676	0.001	94	953586	8.00	6.03	
74 Naphthalene	128	7.752	7.751	0.001	98	2887674	8.00	6.45	
76 4-Chloroaniline	127	7.773	7.778	-0.005	97	770451	8.00	4.96	
77 2,6-Dichlorophenol	162	7.789	7.786	0.000	98	941737	8.00	7.20	
79 Hexachlorobutadiene	225	7.843	7.839	0.001	96	460958	8.00	5.10	
84 Caprolactam	113	8.073	8.072	0.001	79	243416	16.0	6.39	
85 4-Chloro-3-methylphenol	107	8.163	8.163	0.000	93	803382	8.00	7.51	
87 2-Methylnaphthalene	142	8.329	8.334	-0.005	96	2032470	8.00	6.71	
89 1-Methylnaphthalene	142	8.420	8.419	0.001	93	1970802	8.00	6.80	
90 Hexachlorocyclopentadiene	237	8.463	8.459	0.001	95	359180	8.00	3.59	
91 1,2,4,5-Tetrachlorobenzene	216	8.473	8.472	0.001	96	1044415	8.00	6.38	
93 2,4,6-Trichlorophenol	196	8.559	8.555	0.001	91	745369	8.00	7.31	
94 2,4,5-Trichlorophenol	196	8.601	8.598	0.000	95	781309	8.00	7.84	
96 1,1'-Biphenyl	154	8.714	8.713	0.001	96	2527285	8.00	7.13	
97 2-Chloronaphthalene	162	8.751	8.750	0.001	95	2014300	8.00	7.06	
100 2-Nitroaniline	65	8.815	8.814	0.001	89	526022	8.00	7.43	
105 Dimethyl phthalate	163	8.938	8.937	0.001	99	2395585	8.00	7.91	
106 1,3-Dinitrobenzene	168	8.986	8.985	0.001	89	377604	8.00	7.77	
107 2,6-Dinitrotoluene	165	9.002	9.001	0.001	93	573464	8.00	7.80	
108 Acenaphthylene	152	9.109	9.108	0.001	98	2894873	8.00	7.36	
109 3-Nitroaniline	138	9.157	9.162	-0.005	96	409193	8.00	8.23	
111 2,4-Dinitrophenol	184	9.243	9.239	0.001	84	607019	16.0	13.9	
110 Acenaphthene	153	9.253	9.252	0.001	95	2132074	8.00	7.09	
112 4-Nitrophenol	109	9.280	9.279	0.001	89	445945	16.0	11.8	
114 2,4-Dinitrotoluene	165	9.349	9.349	0.000	95	750633	8.00	8.11	
115 Dibenzofuran	168	9.392	9.391	0.001	97	2921803	8.00	7.38	
118 2,3,4,6-Tetrachlorophenol	232	9.488	9.485	0.001	71	601507	8.00	7.24	
121 Hexadecane	57	9.510	9.509	0.001	95	1189551	8.00	7.16	
120 Diethyl phthalate	149	9.520	9.520	0.000	99	2417482	8.00	8.15	
123 4-Chlorophenyl phenyl ethe	204	9.654	9.653	0.001	88	1256348	8.00	7.64	
126 4-Nitroaniline	138	9.681	9.677	0.001	89	543830	8.00	8.42	
124 Fluorene	166	9.686	9.685	0.001	93	2450504	8.00	7.44	
127 4,6-Dinitro-2-methylphenol	198	9.702	9.699	0.001	93	824904	16.0	14.6	
130 N-Nitrosodiphenylamine	169	9.750	9.749	0.001	62	1780007	8.00	7.60	
129 Diphenylamine	169	9.750	9.749	0.001	94	1780007	6.84	6.50	
131 1,2-Diphenylhydrazine	77	9.787	9.792	-0.005	41	2213999	8.00	7.41	
132 Azobenzene	77	9.787	9.792	-0.005	98	2213999	8.00	7.41	
139 4-Bromophenyl phenyl ether	248	10.071	10.070	0.001	68	751352	8.00	7.58	
140 Hexachlorobenzene	284	10.161	10.158	0.000	93	754645	8.00	7.07	
143 Atrazine	200	10.172	10.166	0.006	95	1524744	16.0	17.3	
148 n-Octadecane	57	10.279	10.278	0.001	95	1261535	8.00	7.55	
145 Pentachlorophenol	266	10.316	10.316	0.000	93	720095	16.0	11.1	
151 Phenanthrene	178	10.509	10.508	0.001	97	3812356	8.00	7.73	
152 Anthracene	178	10.551	10.551	0.000	97	3768502	8.00	7.70	
153 Carbazole	167	10.669	10.668	0.001	96	3229934	8.00	11.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
157 Di-n-butyl phthalate	149	10.883	10.887	-0.004	100	4053142	8.00	8.49	
164 Fluoranthene	202	11.572	11.566	0.006	98	4167866	8.00	8.08	
166 Benzidine	184	11.652	11.644	0.001	99	791081	16.0	4.34	
167 Pyrene	202	11.812	11.811	0.001	97	4331689	8.00	8.09	
174 Butyl benzyl phthalate	149	12.416	12.415	0.001	96	1798438	8.00	8.36	
181 Bis(2-ethylhexyl) phthalat	149	13.137	13.136	0.001	95	2535186	8.00	8.19	
179 3,3'-Dichlorobenzidine	252	13.185	13.184	0.001	74	2427698	16.0	18.0	
180 Benzo[a]anthracene	228	13.271	13.264	0.006	98	4123709	8.00	8.15	
182 Chrysene	228	13.324	13.323	0.001	96	3882211	8.00	8.09	
184 Di-n-octyl phthalate	149	14.120	14.114	0.006	99	4287075	8.00	8.68	
186 Benzo[b]fluoranthene	252	14.932	14.931	0.001	98	3873567	8.00	7.82	
187 Benzo[k]fluoranthene	252	14.975	14.974	0.001	99	3781950	8.00	7.39	
189 Benzo[a]pyrene	252	15.482	15.476	0.006	77	3701351	8.00	7.92	
193 Indeno[1,2,3-cd]pyrene	276	17.518	17.508	0.007	97	4440820	8.00	8.31	
194 Dibenz(a,h)anthracene	278	17.523	17.517	0.006	92	3650505	8.00	8.24	
195 Benzo[g,h,i]perylene	276	18.094	18.088	0.006	97	3644391	8.00	8.22	
S 263 3-Methylphenol	1				0		8.00	6.53	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016992.D

Injection Date: 20-Apr-2018 07:08:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: LCS 480-409528/2-A

Worklist Smp#: 15

Client ID:

Injection Vol: 2.0 ul

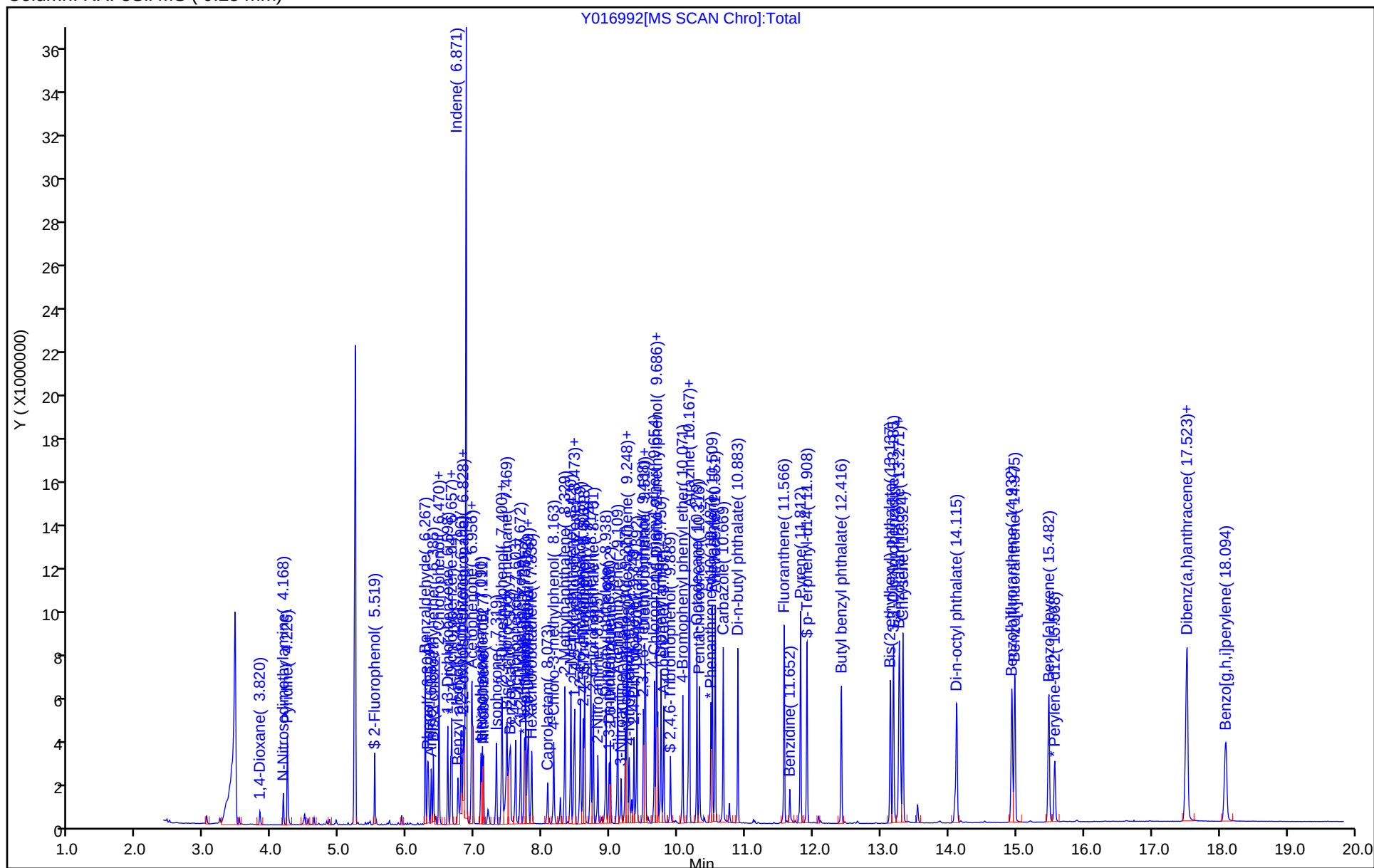
Dil. Factor: 1.0000

ALS Bottle#: 41

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016992.D

Injection Date: 20-Apr-2018 07:08:30

Instrument ID: HP5973Y

Lims ID: LCS 480-409528/2-A

Client ID:

Operator ID: BS

ALS Bottle#:

41

Worklist Smp#: 15

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

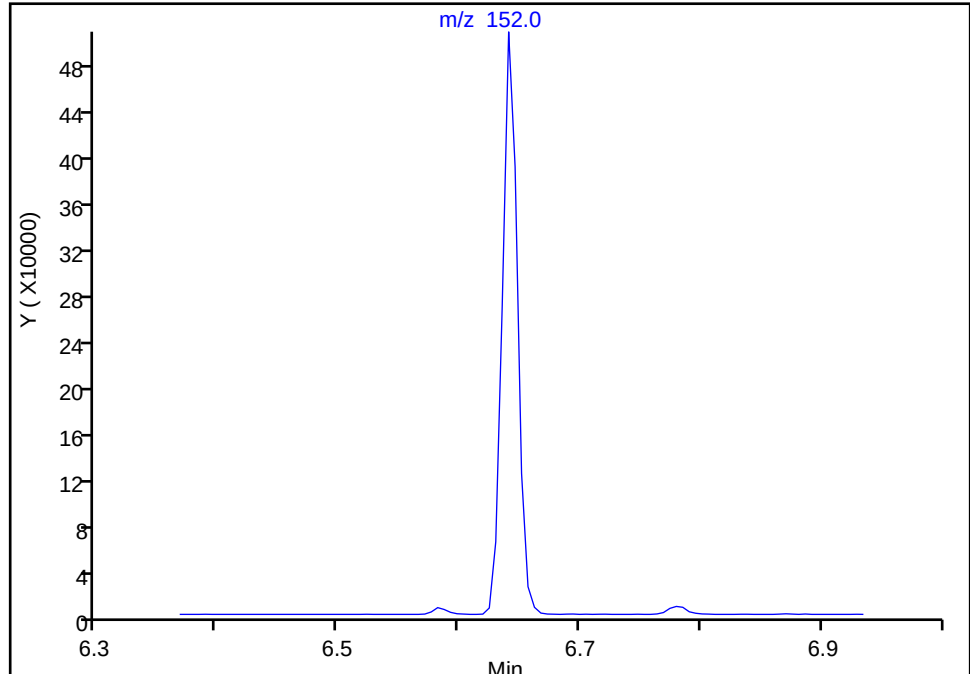
* 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

Not Detected

Expected RT: 6.64

Processing Integration Results



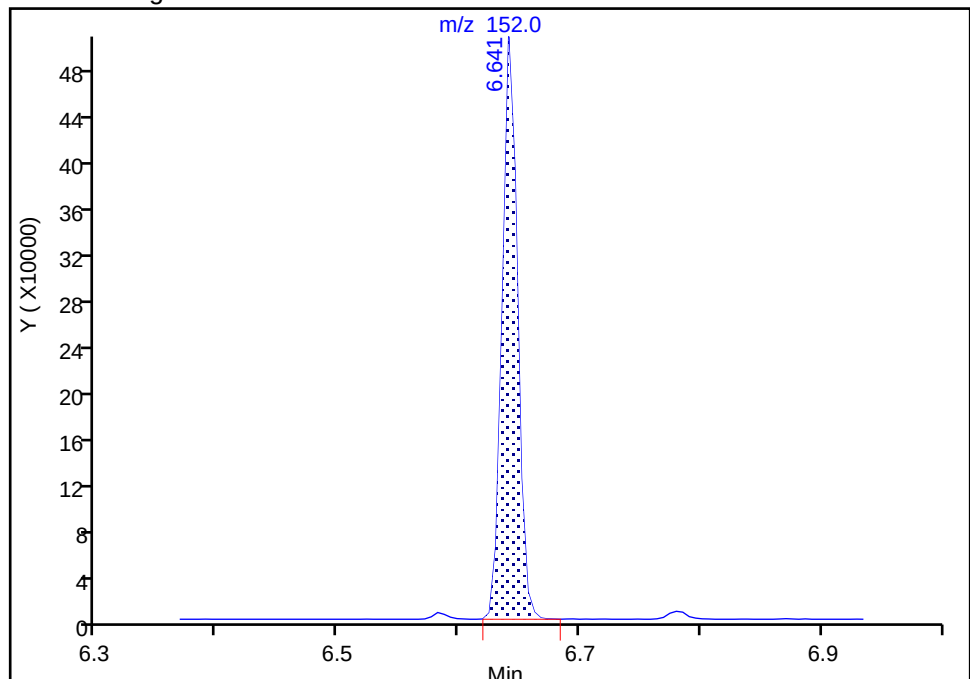
RT: 6.64

Area: 438915

Amount: 4.000000

Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 20-Apr-2018 11:41:32

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 480-409870/2-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>W3504.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: _____
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/21/2018 16:44</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	26.8		0.50	0.38
83-32-9	Acenaphthene	27.4		0.50	0.30
208-96-8	Acenaphthylene	28.8		0.50	0.34
120-12-7	Anthracene	30.8		0.50	0.39
56-55-3	Benzo (a) anthracene	30.9		0.50	0.40
50-32-8	Benzo (a) pyrene	29.7		0.50	0.33
205-99-2	Benzo (b) fluoranthene	30.8		0.50	0.30
191-24-2	Benzo (g,h,i) perylene	31.1		0.50	0.37
207-08-9	Benzo (k) fluoranthene	31.1		0.50	0.085
218-01-9	Chrysene	31.0		0.50	0.32
53-70-3	Dibenz (a,h) anthracene	32.4		0.50	0.33
206-44-0	Fluoranthene	31.5		0.50	0.36
86-73-7	Fluorene	28.9		0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	32.0		0.50	0.44
91-20-3	Naphthalene	27.2		0.50	0.42
85-01-8	Phenanthrene	30.7		0.50	0.38
129-00-0	Pyrene	30.6		0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	96		48-120
4165-60-0	Nitrobenzene-d5	97		46-120
1718-51-0	p-Terphenyl-d14	104		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3504.D
 Lims ID: LCS 480-409870/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Apr-2018 16:44:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070843-008
 Operator ID: PJQ Instrument ID: HP5973W
 Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 22-Apr-2018 10:23:21 Calib Date: 17-Apr-2018 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:23:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	95	457997	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1828040	4.00	4.00	
* 3 Acenaphthene-d10	164	8.960	8.961	-0.001	96	884291	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.205	0.006	98	1434106	4.00	4.00	
* 5 Chrysene-d12	240	12.828	12.828	0.000	99	1182307	4.00	4.00	
* 6 Perylene-d12	264	14.965	14.965	0.000	97	1175324	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.269	5.248	0.021	93	942240	8.00	6.32	
\$ 8 Phenol-d5	99	6.065	6.060	0.005	0	946437	8.00	5.03	
\$ 9 Nitrobenzene-d5	82	6.866	6.861	0.000	88	1324032	8.00	7.75	
\$ 10 2-Fluorobiphenyl	172	8.367	8.363	-0.001	99	2473040	8.00	7.65	
\$ 11 2,4,6-Tribromophenol	330	9.618	9.618	0.000	92	272013	8.00	8.11	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	2185068	8.00	8.29	
14 1,4-Dioxane	88	3.485	3.485	0.107	96	346083	8.00	4.81	a
15 N-Nitrosodimethylamine	42	3.864	3.864	0.064	92	481726	8.00	5.51	a
16 Pyridine	52	3.917	3.917	0.080	93	1184304	16.0	8.51	a
36 Benzaldehyde	77	6.022	6.022	0.000	94	1455735	16.0	12.3	
37 Phenol	94	6.076	6.070	0.006	98	1032065	8.00	4.72	
38 Aniline	93	6.113	6.113	0.000	98	1273990	8.00	4.99	
40 Bis(2-chloroethyl)ether	93	6.150	6.151	-0.001	97	1219413	8.00	6.62	
41 2-Chlorophenol	128	6.225	6.220	0.005	97	1196362	8.00	6.76	
43 n-Decane	57	6.231	6.231	0.000	91	958587	8.00	4.74	
44 1,3-Dichlorobenzene	146	6.353	6.348	0.005	99	1220613	8.00	5.94	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	95	1264365	8.00	6.03	
46 Benzyl alcohol	108	6.503	6.503	0.000	94	756338	8.00	6.58	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	98	1219099	8.00	6.16	
49 2-Methylphenol	108	6.589	6.589	-0.001	92	1074587	8.00	6.54	
50 2,2'-oxybis[1-chloropropan	45	6.605	6.605	0.000	94	1687174	8.00	6.52	
48 Indene	115	6.626	6.616	0.005	90	8705763	64.0	34.4	
56 4-Methylphenol	108	6.717	6.711	0.005	98	1140358	8.00	6.57	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	90	863353	8.00	6.95	
53 Acetophenone	105	6.727	6.727	-0.001	98	1719448	8.00	7.13	
59 Hexachloroethane	117	6.840	6.840	0.000	97	435242	8.00	5.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
61 Nitrobenzene	77	6.882	6.877	0.000	86	1261485	8.00	6.96	
63 Isophorone	82	7.075	7.070	0.000	99	2205772	8.00	7.33	
67 2-Nitrophenol	139	7.149	7.144	-0.001	92	682667	8.00	6.98	
68 2,4-Dimethylphenol	107	7.160	7.155	0.000	94	1231222	8.00	7.12	
71 Bis(2-chloroethoxy)methane	93	7.235	7.230	0.000	100	1447192	8.00	7.09	
72 Benzoic acid	105	7.299	7.203	0.037	88	4107014	64.0	50.0	
74 2,4-Dichlorophenol	162	7.352	7.347	-0.001	92	1055268	8.00	7.12	
75 1,2,4-Trichlorobenzene	180	7.427	7.422	0.000	95	956658	8.00	6.05	
76 Naphthalene	128	7.497	7.497	-0.005	98	3346165	8.00	6.80	
78 4-Chloroaniline	127	7.529	7.523	0.000	96	1172863	8.00	5.75	
79 2,6-Dichlorophenol	162	7.539	7.534	-0.001	99	1023175	8.00	7.23	
81 Hexachlorobutadiene	225	7.593	7.588	0.000	98	439891	8.00	5.47	
84 Caprolactam	113	7.828	7.817	0.005	81	335919	16.0	7.39	
87 4-Chloro-3-methylphenol	107	7.913	7.908	-0.001	96	1045345	8.00	7.29	
89 2-Methylnaphthalene	142	8.074	8.068	0.000	92	2302563	8.00	6.70	
91 1-Methylnaphthalene	142	8.159	8.159	-0.006	93	2207644	8.00	6.73	
93 Hexachlorocyclopentadiene	237	8.207	8.202	0.000	94	308501	8.00	3.61	
92 1,2,4,5-Tetrachlorobenzene	216	8.218	8.213	0.000	98	871088	8.00	6.14	
94 2,4,6-Trichlorophenol	196	8.303	8.299	-0.001	91	698617	8.00	7.26	
95 2,4,5-Trichlorophenol	196	8.341	8.336	0.000	94	725253	8.00	7.21	
97 1,1'-Biphenyl	154	8.458	8.453	0.000	96	2678412	8.00	6.89	
98 2-Chloronaphthalene	162	8.490	8.485	0.000	96	2073001	8.00	6.76	
100 2-Nitroaniline	65	8.560	8.555	0.000	89	658031	8.00	7.29	
104 Dimethyl phthalate	163	8.688	8.678	0.005	99	2477868	8.00	7.53	
105 1,3-Dinitrobenzene	168	8.725	8.719	-0.001	91	446799	8.00	7.51	
106 2,6-Dinitrotoluene	165	8.747	8.742	0.000	94	611183	8.00	7.50	
107 Acenaphthylene	152	8.843	8.838	0.000	98	3032169	8.00	7.20	
108 3-Nitroaniline	138	8.902	8.891	0.006	97	550846	8.00	6.01	
110 2,4-Dinitrophenol	184	8.987	8.977	0.005	67	648580	16.0	15.8	
109 Acenaphthene	153	8.987	8.982	0.000	91	2168056	8.00	6.85	
111 4-Nitrophenol	109	9.019	9.014	0.000	85	512612	16.0	12.8	
113 2,4-Dinitrotoluene	165	9.089	9.083	0.000	96	805896	8.00	7.71	
114 Dibenzofuran	168	9.126	9.121	0.000	96	2937531	8.00	7.17	
117 2,3,4,6-Tetrachlorophenol	232	9.228	9.222	0.000	75	515075	8.00	7.77	
120 Hexadecane	57	9.260	9.254	0.000	94	1385148	8.00	6.43	
119 Diethyl phthalate	149	9.265	9.260	0.000	99	2447939	8.00	7.54	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.388	0.000	92	1093999	8.00	6.89	
125 4-Nitroaniline	138	9.415	9.409	0.000	63	697887	8.00	7.15	
123 Fluorene	166	9.415	9.409	0.000	94	2448943	8.00	7.23	
126 4,6-Dinitro-2-methylphenol	198	9.441	9.436	0.005	89	773239	16.0	15.6	
129 N-Nitrosodiphenylamine	169	9.489	9.484	0.005	99	1820655	8.00	7.61	
128 Diphenylamine	169	9.489	9.484	0.005	94	1820655	6.84	6.51	
130 1,2-Diphenylhydrazine	77	9.527	9.521	0.000	99	2410848	8.00	7.33	
131 Azobenzene	77	9.527	9.527	0.000	98	2410848	8.00	7.48	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	67	609300	8.00	7.29	
138 Hexachlorobenzene	284	9.890	9.890	0.000	93	632509	8.00	7.36	
141 Atrazine	200	9.911	9.900	0.005	94	1313272	16.0	18.3	
146 n-Octadecane	57	10.024	10.024	0.000	96	1465380	8.00	7.18	
143 Pentachlorophenol	266	10.045	10.045	0.000	91	669454	16.0	17.7	
149 Phenanthrene	178	10.232	10.227	0.005	98	3366610	8.00	7.67	
150 Anthracene	178	10.275	10.269	0.006	98	3358328	8.00	7.70	
151 Carbazole	167	10.392	10.392	0.000	96	3048018	8.00	7.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
154 Di-n-butyl phthalate	149	10.622	10.617	0.005	100	3735259	8.00	8.20	
161 Fluoranthene	202	11.247	11.242	0.005	99	3277409	8.00	7.88	
164 Benzidine	184	11.327	11.318	0.000	99	630872	16.0	3.21	
165 Pyrene	202	11.466	11.457	0.000	95	3318151	8.00	7.66	
172 Butyl benzyl phthalate	149	12.038	12.028	0.000	97	1708406	8.00	7.76	
180 Bis(2-ethylhexyl) phthalat	149	12.711	12.700	0.000	96	2339739	8.00	7.66	
177 3,3'-Dichlorobenzidine	252	12.743	12.727	0.005	74	1944104	16.0	15.0	
179 Benzo[a]anthracene	228	12.812	12.802	0.000	100	3063496	8.00	7.72	
181 Chrysene	228	12.866	12.850	0.006	97	2927861	8.00	7.75	
184 Di-n-octyl phthalate	149	13.630	13.618	0.000	99	3995055	8.00	8.08	
186 Benzo[b]fluoranthene	252	14.367	14.362	0.000	98	2896163	8.00	7.70	
187 Benzo[k]fluoranthene	252	14.410	14.399	0.006	98	2967544	8.00	7.78	
189 Benzo[a]pyrene	252	14.885	14.874	0.005	79	2726399	8.00	7.42	
193 Indeno[1,2,3-cd]pyrene	276	16.701	16.690	0.005	97	3396260	8.00	8.00	
194 Dibenzo(a,h)anthracene	278	16.712	16.701	0.005	92	2928498	8.00	8.11	
195 Benzo[g,h,i]perylene	276	17.193	17.181	0.005	95	2821666	8.00	7.79	
S 258 3-Methylphenol	1				0		8.00	6.57	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 22-Apr-2018 10:23:23

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973W\\20180421-70843.b\\W3504.D

Injection Date: 21-Apr-2018 16:44:30

Instrument ID: HP5973W

Operator ID: PJQ

Lims ID: LCS 480-409870/2-A

Worklist Smp#: 8

Client ID:

Injection Vol: 2.0 ul

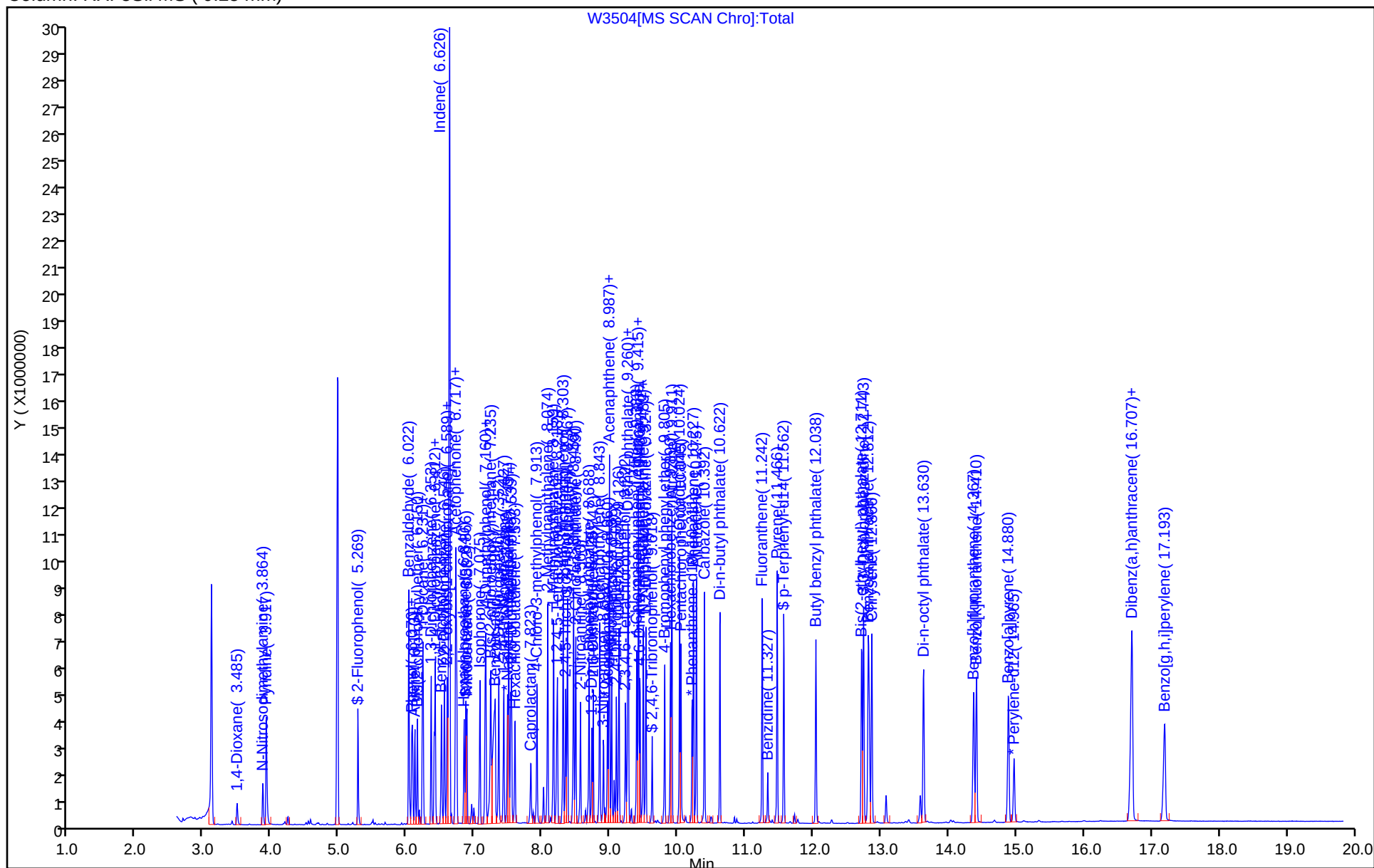
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 480-409528/3-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>Y016993.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: _____
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/18/2018 14:24</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/20/2018 07:37</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>409652</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	27.3		0.50	0.38
83-32-9	Acenaphthene	29.0		0.50	0.30
208-96-8	Acenaphthylene	29.1		0.50	0.34
120-12-7	Anthracene	31.9		0.50	0.39
56-55-3	Benzo (a) anthracene	32.3		0.50	0.40
50-32-8	Benzo (a) pyrene	31.6		0.50	0.33
205-99-2	Benzo (b) fluoranthene	31.3		0.50	0.30
191-24-2	Benzo (g,h,i) perylene	33.1		0.50	0.37
207-08-9	Benzo (k) fluoranthene	30.2		0.50	0.085
218-01-9	Chrysene	32.0		0.50	0.32
53-70-3	Dibenz (a,h) anthracene	33.2		0.50	0.33
206-44-0	Fluoranthene	34.1		0.50	0.36
86-73-7	Fluorene	30.1		0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	33.2		0.50	0.44
91-20-3	Naphthalene	26.1		0.50	0.42
85-01-8	Phenanthrene	31.7		0.50	0.38
129-00-0	Pyrene	31.3		0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	90		48-120
4165-60-0	Nitrobenzene-d5	88		46-120
1718-51-0	p-Terphenyl-d14	101		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016993.D
 Lims ID: LCSD 480-409528/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 20-Apr-2018 07:37:30 ALS Bottle#: 42 Worklist Smp#: 16
 Injection Vol: 2.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0070775-016
 Operator ID: BS Instrument ID: HP5973Y
 Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y-LVI-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 20-Apr-2018 11:42:59 Calib Date: 19-Mar-2018 13:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180319-70003.b\Y016471.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: schickr

Date: 20-Apr-2018 11:42:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.640	6.640	0.000	94	427636	4.00	4.00	a
* 2 Naphthalene-d8	136	7.730	7.735	-0.005	99	1634113	4.00	4.00	
* 3 Acenaphthene-d10	164	9.220	9.226	-0.006	95	907183	4.00	4.00	
* 4 Phenanthrene-d10	188	10.487	10.486	0.000	97	1682128	4.00	4.00	
* 5 Chrysene-d12	240	13.286	13.286	0.000	99	1643891	4.00	4.00	
* 6 Perylene-d12	264	15.567	15.567	0.000	98	1588504	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.518	5.497	0.021	92	746153	8.00	6.06	
\$ 8 Phenol-d5	99	6.298	6.298	0.000	94	719617	8.00	4.71	
\$ 9 Nitrobenzene-d5	82	7.110	7.110	0.000	88	1087921	8.00	7.04	
\$ 10 2-Fluorobiphenyl	172	8.622	8.622	0.000	99	2464918	8.00	7.23	
\$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	93	312077	8.00	7.58	
\$ 12 p-Terphenyl-d14	244	11.908	11.907	0.001	99	2853949	8.00	8.06	
13 1,4-Dioxane	88	3.820	3.820	0.091	94	251160	8.00	4.96	a
14 N-Nitrosodimethylamine	42	4.167	4.113	0.054	90	402090	8.00	5.57	
15 Pyridine	52	4.226	4.226	0.070	95	824657	16.0	8.73	a
35 Benzaldehyde	77	6.266	6.266	0.000	95	1189619	16.0	10.9	
37 Phenol	94	6.309	6.309	0.000	99	799642	8.00	4.90	
36 Aniline	93	6.352	6.357	-0.005	97	842875	8.00	4.48	
39 Bis(2-chloroethyl)ether	93	6.384	6.389	-0.005	98	1000950	8.00	7.49	
40 2-Chlorophenol	128	6.469	6.469	0.000	97	999398	8.00	7.07	
41 n-Decane	57	6.469	6.469	0.000	92	658965	8.00	4.64	
43 1,3-Dichlorobenzene	146	6.597	6.597	0.000	99	987350	8.00	5.75	
44 1,4-Dichlorobenzene	146	6.656	6.656	0.000	95	1014302	8.00	5.77	
45 Benzyl alcohol	108	6.747	6.747	0.000	93	517223	8.00	6.06	
46 1,2-Dichlorobenzene	146	6.795	6.795	0.000	98	1014562	8.00	6.09	
48 2-Methylphenol	108	6.827	6.827	0.000	92	928122	8.00	7.45	
49 2,2'-oxybis[1-chloropropan	45	6.843	6.843	0.000	91	1280324	8.00	6.96	
47 Indene	115	6.865	6.870	-0.005	90	10998426	64.0	46.3	Ee
57 4-Methylphenol	108	6.950	6.950	0.000	97	886393	8.00	6.79	
53 N-Nitrosodi-n-propylamine	70	6.955	6.955	0.000	90	710320	8.00	7.61	
52 Acetophenone	105	6.971	6.971	0.000	96	1353607	8.00	7.33	
58 Hexachloroethane	117	7.089	7.089	0.000	90	345509	8.00	5.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Nitrobenzene	77	7.126	7.126	0.000	87	1016208	8.00	7.12	
62 Isophorone	82	7.319	7.319	0.000	99	1796073	8.00	7.63	
64 2-Nitrophenol	139	7.393	7.399	-0.006	95	566952	8.00	6.97	
66 2,4-Dimethylphenol	107	7.404	7.404	0.000	94	1013930	8.00	7.52	
69 Bis(2-chloroethoxy)methane	93	7.474	7.473	0.001	98	1170813	8.00	7.38	
70 Benzoic acid	105	7.527	7.495	0.032	90	3052488	64.0	33.2	
72 2,4-Dichlorophenol	162	7.602	7.599	0.000	91	951522	8.00	7.26	
73 1,2,4-Trichlorobenzene	180	7.677	7.676	0.001	94	964620	8.00	6.24	
74 Naphthalene	128	7.751	7.751	0.000	98	2851715	8.00	6.52	
76 4-Chloroaniline	127	7.778	7.778	0.000	97	731963	8.00	4.82	
77 2,6-Dichlorophenol	162	7.789	7.786	0.000	97	945404	8.00	7.40	
79 Hexachlorobutadiene	225	7.842	7.839	0.000	95	459428	8.00	5.20	
84 Caprolactam	113	8.077	8.072	0.005	79	240832	16.0	6.47	
85 4-Chloro-3-methylphenol	107	8.163	8.163	0.000	93	811585	8.00	7.76	
87 2-Methylnaphthalene	142	8.328	8.334	-0.006	92	2016108	8.00	6.81	
89 1-Methylnaphthalene	142	8.419	8.419	0.000	93	1967194	8.00	6.95	
90 Hexachlorocyclopentadiene	237	8.462	8.459	0.000	95	348895	8.00	3.49	
91 1,2,4,5-Tetrachlorobenzene	216	8.473	8.472	0.001	96	1049173	8.00	6.41	
93 2,4,6-Trichlorophenol	196	8.558	8.555	0.000	92	748648	8.00	7.35	
94 2,4,5-Trichlorophenol	196	8.601	8.598	0.000	95	799650	8.00	8.02	
96 1,1'-Biphenyl	154	8.713	8.713	0.000	95	2545978	8.00	7.18	
97 2-Chloronaphthalene	162	8.750	8.750	0.000	95	2022464	8.00	7.10	
100 2-Nitroaniline	65	8.814	8.814	0.000	88	538228	8.00	7.61	
105 Dimethyl phthalate	163	8.937	8.937	0.000	99	2426255	8.00	8.01	
106 1,3-Dinitrobenzene	168	8.985	8.985	0.000	90	394399	8.00	8.29	
107 2,6-Dinitrotoluene	165	9.001	9.001	0.000	93	578408	8.00	7.87	
108 Acenaphthylene	152	9.108	9.108	0.000	98	2865721	8.00	7.28	
109 3-Nitroaniline	138	9.162	9.162	0.000	96	405253	8.00	8.15	
111 2,4-Dinitrophenol	184	9.247	9.239	0.005	85	621668	16.0	14.2	
110 Acenaphthene	153	9.252	9.252	0.000	95	2182171	8.00	7.26	
112 4-Nitrophenol	109	9.279	9.279	0.000	89	441193	16.0	11.7	
114 2,4-Dinitrotoluene	165	9.349	9.349	0.000	95	746772	8.00	8.07	
115 Dibenzofuran	168	9.397	9.391	0.006	97	2938633	8.00	7.42	
118 2,3,4,6-Tetrachlorophenol	232	9.488	9.485	0.001	71	624134	8.00	7.52	
121 Hexadecane	57	9.509	9.509	0.000	95	1181015	8.00	7.11	
120 Diethyl phthalate	149	9.520	9.520	0.000	99	2403900	8.00	8.10	
123 4-Chlorophenyl phenyl ethe	204	9.653	9.653	0.000	89	1260921	8.00	7.67	
126 4-Nitroaniline	138	9.680	9.677	0.000	89	523841	8.00	8.11	
124 Fluorene	166	9.685	9.685	0.000	93	2480131	8.00	7.53	
127 4,6-Dinitro-2-methylphenol	198	9.701	9.699	0.000	94	836090	16.0	15.2	
130 N-Nitrosodiphenylamine	169	9.749	9.749	0.000	62	1765212	8.00	7.79	
129 Diphenylamine	169	9.749	9.749	0.000	94	1765212	6.84	6.66	
131 1,2-Diphenylhydrazine	77	9.792	9.792	0.000	42	2211428	8.00	7.65	
132 Azobenzene	77	9.792	9.792	0.000	99	2211428	8.00	7.65	
139 4-Bromophenyl phenyl ether	248	10.070	10.070	0.000	64	750259	8.00	7.82	
140 Hexachlorobenzene	284	10.161	10.158	0.000	94	767648	8.00	7.43	
143 Atrazine	200	10.171	10.166	0.005	95	1534508	16.0	17.5	
148 n-Octadecane	57	10.278	10.278	0.000	95	1263525	8.00	7.82	
145 Pentachlorophenol	266	10.316	10.316	0.000	93	718220	16.0	11.5	
151 Phenanthrene	178	10.508	10.508	0.000	97	3775200	8.00	7.92	
152 Anthracene	178	10.551	10.551	0.000	97	3766709	8.00	7.96	
153 Carbazole	167	10.668	10.668	0.000	96	3210666	8.00	11.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
157 Di-n-butyl phthalate	149	10.887	10.887	0.000	100	4067076	8.00	8.80	
164 Fluoranthene	202	11.571	11.566	0.005	98	4244851	8.00	8.51	
166 Benzidine	184	11.651	11.644	0.000	99	328605	16.0	1.77	
167 Pyrene	202	11.811	11.811	0.000	97	4276260	8.00	7.83	
174 Butyl benzyl phthalate	149	12.415	12.415	0.000	96	1792313	8.00	8.17	
181 Bis(2-ethylhexyl) phthalat	149	13.136	13.136	0.000	95	2549248	8.00	8.08	
179 3,3'-Dichlorobenzidine	252	13.184	13.184	0.000	73	2445940	16.0	17.8	
180 Benzo[a]anthracene	228	13.270	13.264	0.006	98	4168509	8.00	8.08	
182 Chrysene	228	13.323	13.323	0.000	96	3910396	8.00	8.00	
184 Di-n-octyl phthalate	149	14.119	14.114	0.005	99	4257008	8.00	8.46	
186 Benzo[b]fluoranthene	252	14.937	14.931	0.005	97	3837508	8.00	7.82	
187 Benzo[k]fluoranthene	252	14.979	14.974	0.005	99	3823610	8.00	7.54	
189 Benzo[a]pyrene	252	15.481	15.476	0.005	77	3651459	8.00	7.89	
193 Indeno[1,2,3-cd]pyrene	276	17.517	17.508	0.006	96	4394645	8.00	8.30	
194 Dibenz(a,h)anthracene	278	17.522	17.517	0.005	88	3644256	8.00	8.31	
195 Benzo[g,h,i]perylene	276	18.094	18.088	0.006	97	3636739	8.00	8.29	
S 263 3-Methylphenol	1				0		8.00	6.79	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 20-Apr-2018 11:43:00

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016993.D

Injection Date: 20-Apr-2018 07:37:30

Instrument ID: HP5973Y

Operator ID: BS

Lims ID: LCSD 480-409528/3-A

Worklist Smp#: 16

Client ID:

Injection Vol: 2.0 ul

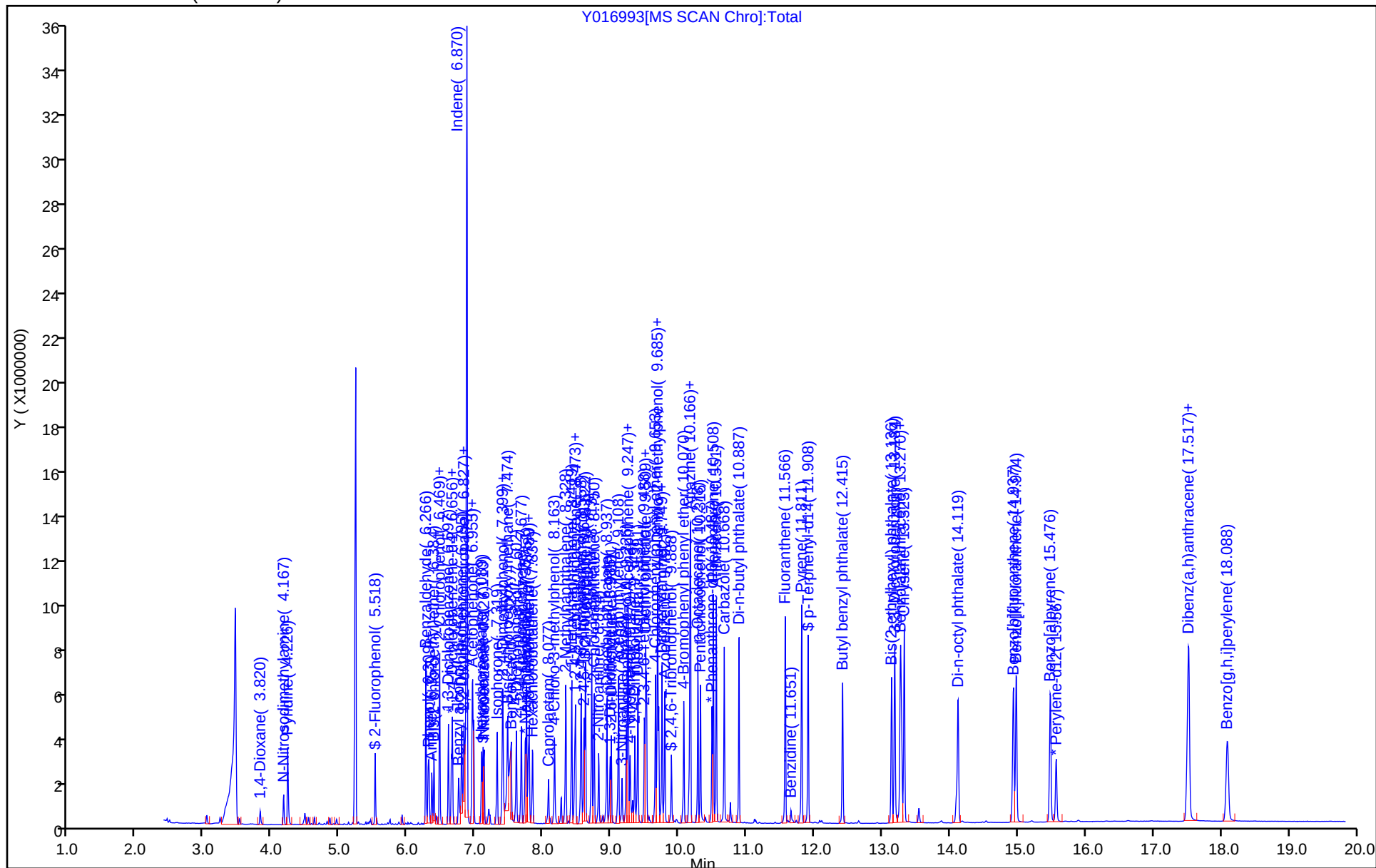
Dil. Factor: 1.0000

ALS Bottle#: 42

Method: Y-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180419-70775.b\Y016993.D

Injection Date: 20-Apr-2018 07:37:30

Instrument ID: HP5973Y

Lims ID: LCSD 480-409528/3-A

Client ID:

Operator ID: BS

ALS Bottle#:

42

Worklist Smp#: 16

Injection Vol: 2.0 ul

Dil. Factor:

1.0000

Method: Y-LVI-8270

Limit Group:

MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

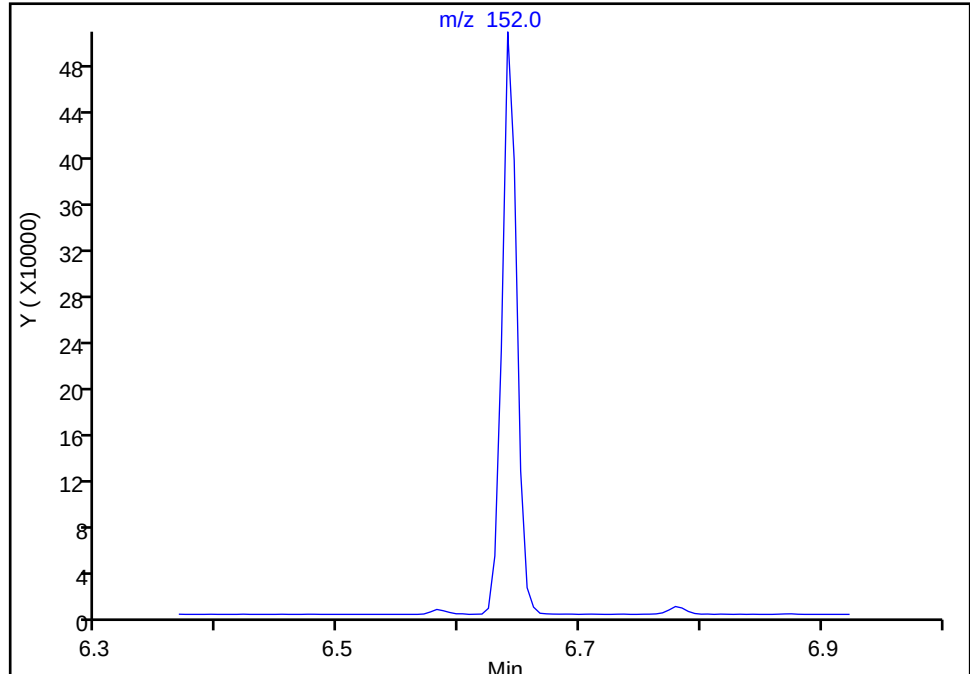
* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

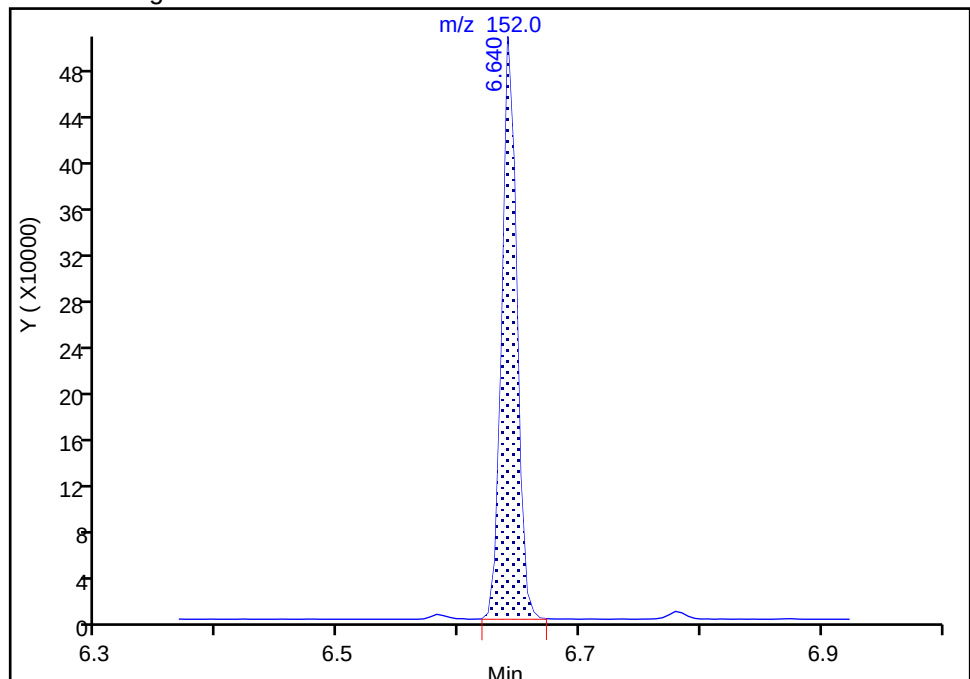
Not Detected

Expected RT: 6.64

Processing Integration Results



Manual Integration Results



RT: 6.64

Area: 427636

Amount: 4.000000

Amount Units: ng/uL

Reviewer: schickr, 20-Apr-2018 11:42:55

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-134358-1</u>
SDG No.: <u>480-134358-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 480-409870/3-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>W3505.D</u>
Analysis Method: <u>8270D_LL_PAH</u>	Date Collected: _____
Extract. Method: <u>3510C</u>	Date Extracted: <u>04/20/2018 08:09</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>04/21/2018 17:13</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>2 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>410140</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-57-6	2-Methylnaphthalene	26.6		0.50	0.38
83-32-9	Acenaphthene	27.9		0.50	0.30
208-96-8	Acenaphthylene	29.4		0.50	0.34
120-12-7	Anthracene	31.0		0.50	0.39
56-55-3	Benzo (a) anthracene	31.4		0.50	0.40
50-32-8	Benzo (a) pyrene	29.7		0.50	0.33
205-99-2	Benzo (b) fluoranthene	31.4		0.50	0.30
191-24-2	Benzo (g,h,i) perylene	30.6		0.50	0.37
207-08-9	Benzo (k) fluoranthene	31.2		0.50	0.085
218-01-9	Chrysene	30.4		0.50	0.32
53-70-3	Dibenz (a,h) anthracene	32.3		0.50	0.33
206-44-0	Fluoranthene	31.8		0.50	0.36
86-73-7	Fluorene	29.4		0.50	0.37
193-39-5	Indeno (1,2,3-cd) pyrene	31.6		0.50	0.44
91-20-3	Naphthalene	27.3		0.50	0.42
85-01-8	Phenanthrene	30.1		0.50	0.38
129-00-0	Pyrene	30.8		0.50	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	98		48-120
4165-60-0	Nitrobenzene-d5	97		46-120
1718-51-0	p-Terphenyl-d14	103		24-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3505.D

Lims ID: LCSD 480-409870/3-A

Client ID:

Sample Type: LCSD

Inject. Date: 21-Apr-2018 17:13:30

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Sample Info: 480-0070843-009

Operator ID: PJQ

Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W-LVI-8270.m

Limit Group: MB - 8270D ICAL

Last Update: 22-Apr-2018 10:24:59

Calib Date: 17-Apr-2018 21:02:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20180417-70726.b\W3485.D

Column 1 : RXI-5Sil MS (0.25 mm)

Det: MS SCAN

Process Host: XAWRK002

First Level Reviewer: quirkp

Date: 22-Apr-2018 10:24:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.396	6.396	0.000	96	448243	4.00	4.00	
* 2 Naphthalene-d8	136	7.481	7.481	0.000	99	1800313	4.00	4.00	
* 3 Acenaphthene-d10	164	8.961	8.961	0.000	96	854296	4.00	4.00	
* 4 Phenanthrene-d10	188	10.211	10.205	0.006	98	1447179	4.00	4.00	
* 5 Chrysene-d12	240	12.828	12.828	0.000	99	1190647	4.00	4.00	
* 6 Perylene-d12	264	14.965	14.965	0.000	97	1184579	4.00	4.00	
\$ 7 2-Fluorophenol	112	5.269	5.248	0.021	92	929603	8.00	6.37	
\$ 8 Phenol-d5	99	6.065	6.060	0.005	0	930108	8.00	5.05	
\$ 9 Nitrobenzene-d5	82	6.866	6.861	0.000	87	1306144	8.00	7.76	
\$ 10 2-Fluorobiphenyl	172	8.368	8.363	0.000	99	2456967	8.00	7.87	
\$ 11 2,4,6-Tribromophenol	330	9.618	9.618	0.000	92	274595	8.00	8.12	
\$ 12 p-Terphenyl-d14	244	11.562	11.553	0.000	99	2187748	8.00	8.24	
14 1,4-Dioxane	88	3.485	3.485	0.107	96	335350	8.00	4.77	a
15 N-Nitrosodimethylamine	42	3.864	3.864	0.064	93	470488	8.00	5.50	a
16 Pyridine	52	3.918	3.918	0.081	95	1240244	16.0	9.10	a
36 Benzaldehyde	77	6.022	6.022	0.000	94	1412239	16.0	12.1	
37 Phenol	94	6.076	6.070	0.006	98	1031035	8.00	4.82	
38 Aniline	93	6.113	6.113	0.000	98	1246492	8.00	4.99	
40 Bis(2-chloroethyl)ether	93	6.151	6.151	0.000	97	1241155	8.00	6.89	
41 2-Chlorophenol	128	6.225	6.220	0.005	97	1176791	8.00	6.79	
43 n-Decane	57	6.231	6.231	0.000	95	919818	8.00	4.65	
44 1,3-Dichlorobenzene	146	6.354	6.348	0.006	99	1187644	8.00	5.91	
45 1,4-Dichlorobenzene	146	6.412	6.412	0.000	95	1223474	8.00	5.96	
46 Benzyl alcohol	108	6.503	6.503	0.000	95	753170	8.00	6.70	
47 1,2-Dichlorobenzene	146	6.546	6.546	0.000	98	1192371	8.00	6.16	
49 2-Methylphenol	108	6.589	6.589	0.000	92	1080510	8.00	6.72	
50 2,2'-oxybis[1-chloropropan	45	6.605	6.605	0.000	96	1655168	8.00	6.54	
48 Indene	115	6.626	6.616	0.005	89	8945358	64.0	35.9	
56 4-Methylphenol	108	6.717	6.711	0.005	95	1143201	8.00	6.72	
55 N-Nitrosodi-n-propylamine	70	6.717	6.717	0.000	89	855482	8.00	7.03	
53 Acetophenone	105	6.728	6.727	0.000	98	1723115	8.00	7.30	
59 Hexachloroethane	117	6.840	6.840	0.000	96	418763	8.00	5.61	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
61 Nitrobenzene	77	6.882	6.877	0.000	86	1242133	8.00	6.95	
63 Isophorone	82	7.075	7.070	0.000	99	2187247	8.00	7.38	
67 2-Nitrophenol	139	7.150	7.144	0.000	92	680471	8.00	7.06	
68 2,4-Dimethylphenol	107	7.160	7.155	0.000	94	1220115	8.00	7.17	
71 Bis(2-chloroethoxy)methane	93	7.235	7.230	0.000	100	1428447	8.00	7.11	
72 Benzoic acid	105	7.299	7.203	0.037	88	4249199	64.0	52.4	
74 2,4-Dichlorophenol	162	7.353	7.347	0.000	92	1049468	8.00	7.19	
75 1,2,4-Trichlorobenzene	180	7.427	7.422	0.000	94	941845	8.00	6.04	
76 Naphthalene	128	7.497	7.497	-0.005	98	3307480	8.00	6.83	
78 4-Chloroaniline	127	7.529	7.523	0.000	96	1149932	8.00	5.72	
79 2,6-Dichlorophenol	162	7.540	7.534	0.000	98	1023718	8.00	7.35	
81 Hexachlorobutadiene	225	7.593	7.588	0.000	98	424513	8.00	5.36	
84 Caprolactam	113	7.823	7.817	0.000	81	330831	16.0	7.39	
87 4-Chloro-3-methylphenol	107	7.914	7.908	0.000	95	1036517	8.00	7.34	
89 2-Methylnaphthalene	142	8.074	8.068	0.000	92	2251591	8.00	6.65	
91 1-Methylnaphthalene	142	8.159	8.159	-0.006	93	2134122	8.00	6.60	
93 Hexachlorocyclopentadiene	237	8.207	8.202	0.000	95	299728	8.00	3.63	
92 1,2,4,5-Tetrachlorobenzene	216	8.218	8.213	0.000	98	836301	8.00	6.10	
94 2,4,6-Trichlorophenol	196	8.304	8.299	0.000	91	709662	8.00	7.63	
95 2,4,5-Trichlorophenol	196	8.341	8.336	0.000	94	728718	8.00	7.49	
97 1,1'-Biphenyl	154	8.458	8.453	0.000	96	2613697	8.00	6.96	
98 2-Chloronaphthalene	162	8.491	8.485	0.000	96	2033060	8.00	6.86	
100 2-Nitroaniline	65	8.560	8.555	0.000	89	668782	8.00	7.66	
104 Dimethyl phthalate	163	8.688	8.678	0.005	99	2491286	8.00	7.84	
105 1,3-Dinitrobenzene	168	8.726	8.719	0.000	90	446167	8.00	7.61	
106 2,6-Dinitrotoluene	165	8.747	8.742	0.000	94	608232	8.00	7.73	
107 Acenaphthylene	152	8.843	8.838	0.000	98	2990732	8.00	7.35	
108 3-Nitroaniline	138	8.902	8.891	0.006	97	540581	8.00	6.11	
110 2,4-Dinitrophenol	184	8.987	8.977	0.005	67	658755	16.0	16.5	
109 Acenaphthene	153	8.987	8.982	0.000	91	2134131	8.00	6.98	
111 4-Nitrophenol	109	9.019	9.014	0.000	86	528868	16.0	13.6	
113 2,4-Dinitrotoluene	165	9.089	9.083	0.000	96	805222	8.00	7.97	
114 Dibenzofuran	168	9.126	9.121	0.000	96	2901044	8.00	7.33	
117 2,3,4,6-Tetrachlorophenol	232	9.222	9.222	-0.006	74	507733	8.00	7.93	
120 Hexadecane	57	9.260	9.254	0.000	94	1349098	8.00	6.48	
119 Diethyl phthalate	149	9.265	9.260	0.000	99	2482581	8.00	7.91	
122 4-Chlorophenyl phenyl ethe	204	9.393	9.388	0.000	92	1093934	8.00	7.14	
125 4-Nitroaniline	138	9.415	9.409	0.000	61	696618	8.00	7.39	
123 Fluorene	166	9.415	9.409	0.000	93	2408441	8.00	7.36	
126 4,6-Dinitro-2-methylphenol	198	9.436	9.436	0.000	88	793409	16.0	15.8	
128 Diphenylamine	169	9.490	9.484	0.006	94	1813830	6.84	6.43	
129 N-Nitrosodiphenylamine	169	9.490	9.484	0.006	99	1813830	8.00	7.51	
131 Azobenzene	77	9.527	9.527	0.000	98	2405535	8.00	7.40	
130 1,2-Diphenylhydrazine	77	9.527	9.521	0.000	99	2405535	8.00	7.57	
137 4-Bromophenyl phenyl ether	248	9.805	9.805	0.000	67	607662	8.00	7.21	
138 Hexachlorobenzene	284	9.890	9.890	0.000	93	622606	8.00	7.18	
141 Atrazine	200	9.912	9.900	0.006	94	1317695	16.0	19.0	
146 n-Octadecane	57	10.024	10.024	0.000	96	1479353	8.00	7.19	
143 Pentachlorophenol	266	10.045	10.045	0.000	91	684642	16.0	17.9	
149 Phenanthrene	178	10.232	10.227	0.005	98	3331371	8.00	7.53	
150 Anthracene	178	10.275	10.269	0.006	98	3409912	8.00	7.75	
151 Carbazole	167	10.392	10.392	0.000	96	3073294	8.00	7.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
154 Di-n-butyl phthalate	149	10.622	10.617	0.005	100	3781729	8.00	8.23	
161 Fluoranthene	202	11.247	11.242	0.005	99	3334006	8.00	7.95	
164 Benzidine	184	11.327	11.318	0.000	99	813347	16.0	4.11	
165 Pyrene	202	11.466	11.457	0.000	95	3354515	8.00	7.69	
172 Butyl benzyl phthalate	149	12.038	12.028	0.000	97	1715392	8.00	7.74	
180 Bis(2-ethylhexyl) phthalat	149	12.716	12.700	0.005	97	2406228	8.00	7.82	
177 3,3'-Dichlorobenzidine	252	12.743	12.727	0.005	74	1858761	16.0	14.3	
179 Benzo[a]anthracene	228	12.812	12.802	0.000	100	3135889	8.00	7.85	
181 Chrysene	228	12.866	12.850	0.006	97	2893198	8.00	7.61	
184 Di-n-octyl phthalate	149	13.630	13.618	0.000	99	4064514	8.00	8.16	
186 Benzo[b]fluoranthene	252	14.372	14.362	0.005	98	2972716	8.00	7.85	
187 Benzo[k]fluoranthene	252	14.410	14.399	0.006	98	2995607	8.00	7.80	
189 Benzo[a]pyrene	252	14.885	14.874	0.005	79	2746595	8.00	7.42	
193 Indeno[1,2,3-cd]pyrene	276	16.696	16.690	0.000	94	3377096	8.00	7.90	
194 Dibenzo(a,h)anthracene	278	16.712	16.701	0.005	92	2935622	8.00	8.07	
195 Benzo[g,h,i]perylene	276	17.193	17.181	0.005	96	2793399	8.00	7.65	
S 258 3-Methylphenol	1				0		8.00	6.72	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00145

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20180421-70843.b\W3505.D

Injection Date: 21-Apr-2018 17:13:30

Instrument ID: HP5973W

Operator ID: PJO

Lims ID: LCSD 480-409870/3-A

Worklist Smp#: 9

Client ID:

Injection Vol: 2.0 ul

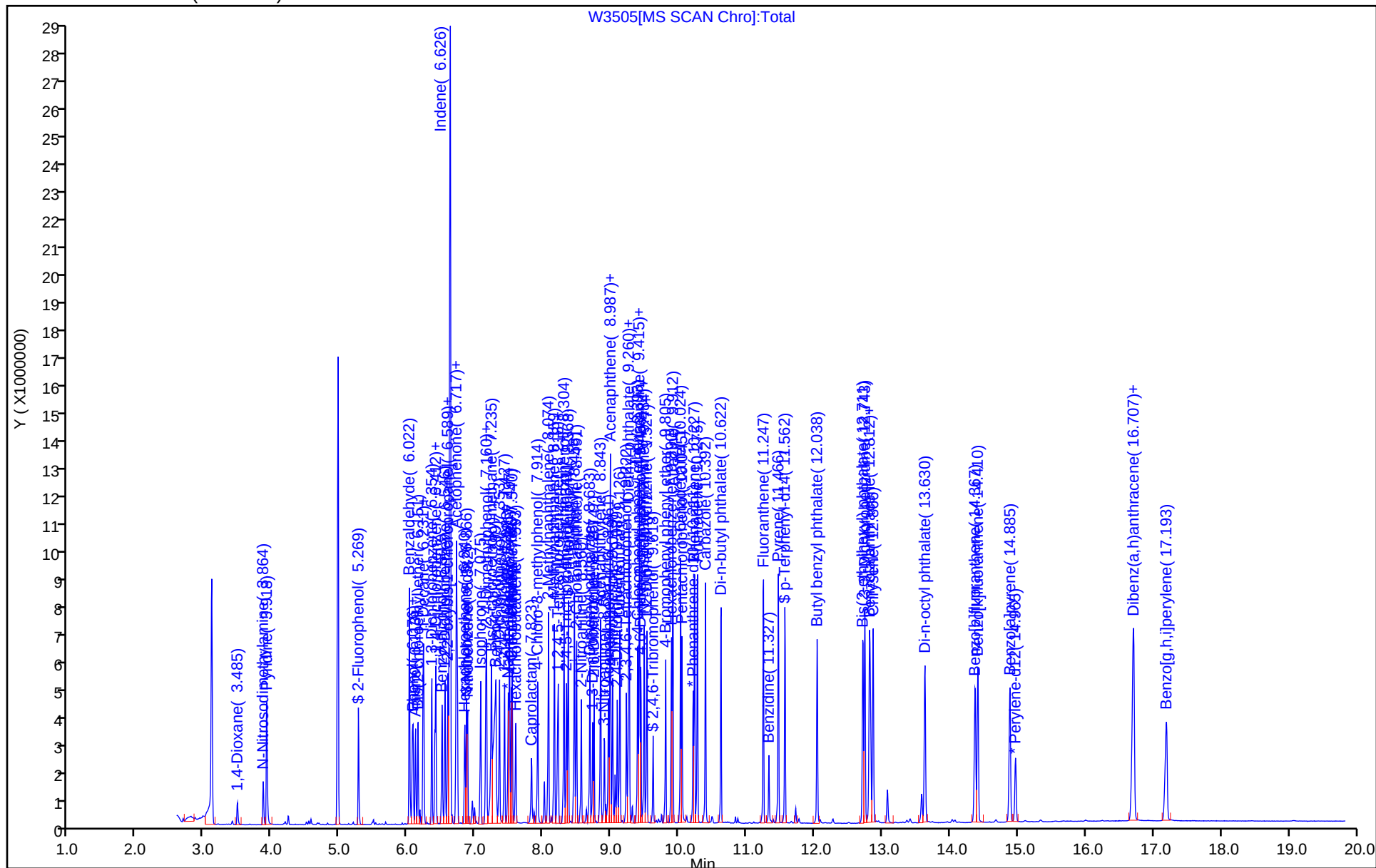
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: W-LVI-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973WStart Date: 04/17/2018 17:14Analysis Batch Number: 409315End Date: 04/17/2018 21:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-409315/2		04/17/2018 17:14	1		RXI-5Sil MS 0.25 (mm)
IC 480-409315/3		04/17/2018 17:42	1	W3478.D	RXI-5Sil MS 0.25 (mm)
IC 480-409315/4		04/17/2018 18:11	1	W3479.D	RXI-5Sil MS 0.25 (mm)
IC 480-409315/5		04/17/2018 18:39	1	W3480.D	RXI-5Sil MS 0.25 (mm)
IC 480-409315/6		04/17/2018 19:08	1	W3481.D	RXI-5Sil MS 0.25 (mm)
ICIS 480-409315/7		04/17/2018 19:37	1	W3482.D	RXI-5Sil MS 0.25 (mm)
IC 480-409315/8		04/17/2018 20:05	1	W3483.D	RXI-5Sil MS 0.25 (mm)
IC 480-409315/9		04/17/2018 20:33	1	W3484.D	RXI-5Sil MS 0.25 (mm)
IC 480-409315/10		04/17/2018 21:02	1	W3485.D	RXI-5Sil MS 0.25 (mm)
ICV 480-409315/11		04/17/2018 21:30	1		RXI-5Sil MS 0.25 (mm)
ICV 480-409315/12		04/17/2018 21:59	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973WStart Date: 04/21/2018 14:19Analysis Batch Number: 410140End Date: 04/22/2018 02:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-410140/3		04/21/2018 14:19	1	W3499.D	RXI-5Sil MS 0.25 (mm)
CCVIS 480-410140/4		04/21/2018 14:47	1	W3500.D	RXI-5Sil MS 0.25 (mm)
RL 480-410140/5		04/21/2018 15:16	1		RXI-5Sil MS 0.25 (mm)
ICV 480-410140/6		04/21/2018 15:46	1		RXI-5Sil MS 0.25 (mm)
MB 480-409870/1-A		04/21/2018 16:15	1	W3503.D	RXI-5Sil MS 0.25 (mm)
LCS 480-409870/2-A		04/21/2018 16:44	1	W3504.D	RXI-5Sil MS 0.25 (mm)
LCSD 480-409870/3-A		04/21/2018 17:13	1	W3505.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 17:42	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 18:11	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 18:39	40		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 19:08	20		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 19:36	5		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 20:04	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 20:33	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 21:01	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 21:29	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 21:58	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 22:26	10		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/21/2018 22:54	1		RXI-5Sil MS 0.25 (mm)
480-134444-1		04/21/2018 23:22	1	W3518.D	RXI-5Sil MS 0.25 (mm)
480-134444-4		04/21/2018 23:51	1	W3519.D	RXI-5Sil MS 0.25 (mm)
480-134444-5		04/22/2018 00:19	250	W3520.D	RXI-5Sil MS 0.25 (mm)
480-134444-6		04/22/2018 00:47	1	W3521.D	RXI-5Sil MS 0.25 (mm)
480-134444-7		04/22/2018 01:15	1	W3522.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/22/2018 01:43	100		RXI-5Sil MS 0.25 (mm)
480-134444-12		04/22/2018 02:12	1	W3524.D	RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973WStart Date: 04/22/2018 11:46Analysis Batch Number: 410190End Date: 04/22/2018 14:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-410190/2		04/22/2018 11:46	1	W3526.D	RXI-5Sil MS 0.25 (mm)
CCVIS 480-410190/3		04/22/2018 12:14	1	W3527.D	RXI-5Sil MS 0.25 (mm)
RL 480-410190/4		04/22/2018 12:42	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/22/2018 13:10	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/22/2018 13:39	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/22/2018 14:07	1		RXI-5Sil MS 0.25 (mm)
480-134444-11		04/22/2018 14:35	1	W3532.D	RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973YStart Date: 03/08/2018 12:36Analysis Batch Number: 403125End Date: 03/08/2018 19:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-403125/2		03/08/2018 12:36	1	Y016352.D	RXI-5Sil MS 0.25 (mm)
IC 480-403125/5		03/08/2018 15:21	1	Y016355.D	RXI-5Sil MS 0.25 (mm)
IC 480-403125/6		03/08/2018 15:49	1	Y016356.D	RXI-5Sil MS 0.25 (mm)
IC 480-403125/7		03/08/2018 16:18	1	Y016357.D	RXI-5Sil MS 0.25 (mm)
IC 480-403125/8		03/08/2018 16:47	1	Y016358.D	RXI-5Sil MS 0.25 (mm)
ICIS 480-403125/9		03/08/2018 17:16	1	Y016359.D	RXI-5Sil MS 0.25 (mm)
IC 480-403125/10		03/08/2018 17:45	1	Y016360.D	RXI-5Sil MS 0.25 (mm)
IC 480-403125/11		03/08/2018 18:14	1	Y016361.D	RXI-5Sil MS 0.25 (mm)
IC 480-403125/12		03/08/2018 18:44	1	Y016362.D	RXI-5Sil MS 0.25 (mm)
ICV 480-403125/13		03/08/2018 19:13	1		RXI-5Sil MS 0.25 (mm)
ICV 480-403125/14		03/08/2018 19:42	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-134358-1SDG No.: 480-134358-1Instrument ID: HP5973YStart Date: 04/20/2018 00:51Analysis Batch Number: 409652End Date: 04/20/2018 09:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-409652/2		04/20/2018 00:51	1	Y016979.D	RXI-5Sil MS 0.25 (mm)
CCVIS 480-409652/3		04/20/2018 01:20	1	Y016980.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 02:47	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 03:16	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 03:45	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 04:14	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 04:43	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 05:12	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 05:41	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		04/20/2018 06:10	1		RXI-5Sil MS 0.25 (mm)
MB 480-409528/1-A		04/20/2018 06:39	1	Y016991.D	RXI-5Sil MS 0.25 (mm)
LCS 480-409528/2-A		04/20/2018 07:08	1	Y016992.D	RXI-5Sil MS 0.25 (mm)
LCSD 480-409528/3-A		04/20/2018 07:37	1	Y016993.D	RXI-5Sil MS 0.25 (mm)
480-134358-1		04/20/2018 08:06	1	Y016994.D	RXI-5Sil MS 0.25 (mm)
480-134358-2		04/20/2018 08:34	1	Y016995.D	RXI-5Sil MS 0.25 (mm)
480-134358-6		04/20/2018 09:03	100	Y016996.D	RXI-5Sil MS 0.25 (mm)
480-134358-7		04/20/2018 09:32	1	Y016997.D	RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Batch Number: 409528 Batch Start Date: 04/18/18 14:23 Batch Analyst: Gruning, Anton T

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	O_8270LL LCS 00077
MB 480-409528/1		3510C, 8270D LL PAH		250 mL	1 mL	7 SU	<2 SU	>11 SU	
LCS 480-409528/2		3510C, 8270D LL PAH		250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
LCS 480-409528/3		3510C, 8270D LL PAH		250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-134358-A-1	MW-13	3510C, 8270D LL PAH	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134358-A-2	MW-23	3510C, 8270D LL PAH	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134358-A-6	MW-07	3510C, 8270D LL PAH	T	50 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134358-A-7	MW-10	3510C, 8270D LL PAH	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270LLsurr 00058	AnalysisComment				
MB 480-409528/1		3510C, 8270D LL PAH		1 mL					
LCS 480-409528/2		3510C, 8270D LL PAH		1 mL					
LCS 480-409528/3		3510C, 8270D LL PAH		1 mL					
480-134358-A-1	MW-13	3510C, 8270D LL PAH	T	1 mL					
480-134358-A-2	MW-23	3510C, 8270D LL PAH	T	1 mL					
480-134358-A-6	MW-07	3510C, 8270D LL PAH	T	1 mL	Cloudy				
480-134358-A-7	MW-10	3510C, 8270D LL PAH	T	1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D_LL_PAH

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 409528 Batch Start Date: 04/18/18 14:23 Batch Analyst: Gruning, Anton TBatch Method: 3510C Batch End Date: _____

Batch Notes	
Acid Used for pH Adjustment ID	4536397
Base Used to Adjust pH ID	4413635
Analyst ID - Concentration	AG
Analyst ID - Extraction	AG
Glass Wool ID	244155999
Method/Fraction	3510C_LVI/8270D
Na2SO4 ID	4578892
Prep Solvent ID	4581135
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	AG
Analyst ID - Spike Witness Analyst	AG
Sufficient Volume for Batch QC	No
Vial Lot Number	1524410933

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 409870 Batch Start Date: 04/20/18 08:09 Batch Analyst: Pollock, Jacob MBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	O_8270LL LCS 00077
MB 480-409870/1		3510C, 8270D LL PAH		250 mL	1 mL	7 SU	<2 SU	>11 SU	
LCS 480-409870/2		3510C, 8270D LL PAH		250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
LCS 480-409870/3		3510C, 8270D LL PAH		250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-134444-B-1	MW-17	3510C, 8270D LL PAH	T	230 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134444-C-4	MW-11A	3510C, 8270D LL PAH	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134444-A-5	MW-19	3510C, 8270D LL PAH	T	240 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134444-B-6	SW-01	3510C, 8270D LL PAH	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134444-C-7	SW-02	3510C, 8270D LL PAH	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134444-A-11	Duplicate	3510C, 8270D LL PAH	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-134444-A-12	EB	3510C, 8270D LL PAH	T	250 mL	1 mL	6 SU	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270LLsurr 00058					
MB 480-409870/1		3510C, 8270D LL PAH		1 mL					
LCS 480-409870/2		3510C, 8270D LL PAH		1 mL					
LCS 480-409870/3		3510C, 8270D LL PAH		1 mL					
480-134444-B-1	MW-17	3510C, 8270D LL PAH	T	1 mL					
480-134444-C-4	MW-11A	3510C, 8270D LL PAH	T	1 mL					
480-134444-A-5	MW-19	3510C, 8270D LL PAH	T	1 mL					
480-134444-B-6	SW-01	3510C, 8270D LL PAH	T	1 mL					
480-134444-C-7	SW-02	3510C, 8270D LL PAH	T	1 mL					
480-134444-A-11	Duplicate	3510C, 8270D LL PAH	T	1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D_LL_PAH

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 409870 Batch Start Date: 04/20/18 08:09 Batch Analyst: Pollock, Jacob MBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270LLsurr 00058					
480-134444-A-12	EB	3510C, 8270D LL PAH	T	1 mL					

Batch Notes	
Acid Used for pH Adjustment ID	4536397
Base Used to Adjust pH ID	4413635
Analyst ID - Concentration	JP, SP
Analyst ID - Extraction	JP
Glass Wool ID	244155999
Method/Fraction	3510C_LVI/8270D
Na2SO4 ID	4578892
Prep Solvent ID	4596037
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	JP
Analyst ID - Spike Witness Analyst	JP
Sufficient Volume for Batch QC	No
Vial Lot Number	1524410933

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D_LL_PAH

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GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG No.: 480-134358-1

Project: Mineral Springs - Semi Annual

Client Sample ID	Lab Sample ID
MW-13	480-134358-1
MW-23	480-134358-2
MW-14	480-134358-3
MW-20	480-134358-4
MW-21	480-134358-5
MW-16	480-134358-9
MW-17	480-134444-1
MW-22	480-134444-2
MW-12	480-134444-3
MW-11A	480-134444-4
SW-01	480-134444-6
SW-02	480-134444-7
SW-03	480-134444-8
SW-04	480-134444-9
SW-04	480-134444-9 RA
SW-05	480-134444-10
Duplicate	480-134444-11
EB	480-134444-12

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 480-134358-1

SDG No.: 480-134358-1

Project: Mineral Springs - Semi Annual

Client Sample ID

Lab Sample ID

MW-13

480-134358-1

MW-23

480-134358-2

MW-14

480-134358-3

MW-20

480-134358-4

MW-21

480-134358-5

MW-16

480-134358-9

MW-17

480-134444-1

MW-22

480-134444-2

MW-12

480-134444-3

MW-11A

480-134444-4

SW-01

480-134444-6

SW-02

480-134444-7

SW-03

480-134444-8

SW-04

480-134444-9

SW-05

480-134444-10

Duplicate

480-134444-11

EB

480-134444-12

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-13	Lab Sample ID: 480-134358-1
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Ground Water	Date Sampled: 04/17/2018 10:30
Reporting Basis: WET	Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.011	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-23	Lab Sample ID: 480-134358-2
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Ground Water	Date Sampled: 04/17/2018 09:40
Reporting Basis: WET	Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.41	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-14

Lab Sample ID: 480-134358-3

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 11:25

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.52	0.020	0.010	mg/L			2	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-20

Lab Sample ID: 480-134358-4

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 12:30

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.60	0.050	0.025	mg/L			5	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-21

Lab Sample ID: 480-134358-5

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 14:15

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.71	0.020	0.010	mg/L			2	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-16

Lab Sample ID: 480-134358-9

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 14:15

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	1.9	0.10	0.050	mg/L			10	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-17	Lab Sample ID: 480-134444-1
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Ground Water	Date Sampled: 04/18/2018 13:25
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.11	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-22

Lab Sample ID: 480-134444-2

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 09:15

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.44	0.020	0.010	mg/L			2	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-12

Lab Sample ID: 480-134444-3

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 08:55

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.81	0.020	0.010	mg/L			2	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-11A

Lab Sample ID: 480-134444-4

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 10:40

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.23	0.010	0.0050	mg/L			1	9012B
	Total Dissolved Solids	702	10.0	4.0	mg/L			1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-11A

Lab Sample ID: 480-134444-4

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 10:40

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	32.4	4.0		mg/L			1	SM 2540D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-01

Lab Sample ID: 480-134444-6

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Surface Water

Date Sampled: 04/18/2018 14:15

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.063	0.010	0.0050	mg/L			1	9012B
	Total Dissolved Solids	824	10.0	4.0	mg/L			1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-01	Lab Sample ID: 480-134444-6
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 14:15
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	4.0	4.0		mg/L	U		1	SM 2540D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-02

Lab Sample ID: 480-134444-7

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Surface Water

Date Sampled: 04/18/2018 11:30

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.13	0.010	0.0050	mg/L			1	9012B
	Total Dissolved Solids	366	10.0	4.0	mg/L			1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-02	Lab Sample ID: 480-134444-7
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 11:30
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	32.4	4.0		mg/L			1	SM 2540D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-03	Lab Sample ID: 480-134444-8
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 12:05
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.24	0.010	0.0050	mg/L			1	9012B
	Total Dissolved Solids	411	10.0	4.0	mg/L			1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-03	Lab Sample ID: 480-134444-8
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 12:05
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	4.4	4.0		mg/L			1	SM 2540D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-04

Lab Sample ID: 480-134444-9

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Surface Water

Date Sampled: 04/18/2018 13:45

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0095	0.010	0.0050	mg/L	J		1	9012B
	Total Dissolved Solids	2210	10.0	4.0	mg/L		E	1	SM 2540C
	Total Dissolved Solids	1960	40.0	16.0	mg/L		H	1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-04

Lab Sample ID: 480-134444-9

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Surface Water

Date Sampled: 04/18/2018 13:45

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	9.6	4.0		mg/L			1	SM 2540D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-05

Lab Sample ID: 480-134444-10

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Surface Water

Date Sampled: 04/18/2018 13:05

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.010	0.010	0.0050	mg/L	U		1	9012B
	Total Dissolved Solids	863	10.0	4.0	mg/L			1	SM 2540C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-05	Lab Sample ID: 480-134444-10
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 13:05
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	6.8	4.0		mg/L			1	SM 2540D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: Duplicate	Lab Sample ID: 480-134444-11
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Ground Water	Date Sampled: 04/18/2018 00:00
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.24	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: EB	Lab Sample ID: 480-134444-12
Lab Name: TestAmerica Buffalo	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Water	Date Sampled: 04/18/2018 11:00
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.010	0.010	0.0050	mg/L	U		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-13

Lab Sample ID: 480-134358-1

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 10:30

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-23	Lab Sample ID: 480-134358-2
Lab Name: TestAmerica Edison	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Ground Water	Date Sampled: 04/17/2018 09:40
Reporting Basis: WET	Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-14

Lab Sample ID: 480-134358-3

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 11:25

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-20

Lab Sample ID: 480-134358-4

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 12:30

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-21	Lab Sample ID: 480-134358-5
Lab Name: TestAmerica Edison	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Ground Water	Date Sampled: 04/17/2018 14:15
Reporting Basis: WET	Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-16

Lab Sample ID: 480-134358-9

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/17/2018 14:15

Reporting Basis: WET

Date Received: 04/17/2018 15:35

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	18.1	5.0	1.5	ug/L		F1	1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-17

Lab Sample ID: 480-134444-1

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 13:25

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-22

Lab Sample ID: 480-134444-2

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 09:15

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-12

Lab Sample ID: 480-134444-3

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 08:55

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	3.1	5.0	1.5	ug/L	J		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-11A

Lab Sample ID: 480-134444-4

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 10:40

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-01	Lab Sample ID: 480-134444-6
Lab Name: TestAmerica Edison	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 14:15
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.1	5.0	1.5	ug/L			1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-02

Lab Sample ID: 480-134444-7

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Surface Water

Date Sampled: 04/18/2018 11:30

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	7.1	5.0	1.5	ug/L			1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-03	Lab Sample ID: 480-134444-8
Lab Name: TestAmerica Edison	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 12:05
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	16.6	5.0	1.5	ug/L			1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-04	Lab Sample ID: 480-134444-9
Lab Name: TestAmerica Edison	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 13:45
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-05	Lab Sample ID: 480-134444-10
Lab Name: TestAmerica Edison	Job No.: 480-134358-1
SDG ID.: 480-134358-1	
Matrix: Surface Water	Date Sampled: 04/18/2018 13:05
Reporting Basis: WET	Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: Duplicate

Lab Sample ID: 480-134444-11

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG ID.: 480-134358-1

Matrix: Ground Water

Date Sampled: 04/18/2018 00:00

Reporting Basis: WET

Date Received: 04/18/2018 15:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: <u>EB</u>	Lab Sample ID: <u>480-134444-12</u>
Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>480-134358-1</u>
SDG ID.: <u>480-134358-1</u>	
Matrix: <u>Water</u>	Date Sampled: <u>04/18/2018 11:00</u>
Reporting Basis: <u>WET</u>	Date Received: <u>04/18/2018 15:40</u>

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Free	5.0	5.0	1.5	ug/L	U		1	9016

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Analyst: MRF Batch Start Date: 04/30/2018
Reporting Units: mg/L Analytical Batch No.: 411719

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	17:19	Cyanide, Total	0.250	0.250	100	90-110		CN CCV_00850
2	CCB	17:20	Cyanide, Total	0.010				U	
13	CCV	17:36	Cyanide, Total	0.244	0.250	98	90-110		CN CCV_00850
14	CCB	17:38	Cyanide, Total	0.010				U	
25	CCV	17:53	Cyanide, Total	0.249	0.250	100	90-110		CN CCV_00850
26	CCB	17:55	Cyanide, Total	0.010				U	
34	CCV	18:06	Cyanide, Total	0.252	0.250	101	90-110		CN CCV_00850
35	CCB	18:08	Cyanide, Total	0.010				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1
SDG No.: 480-134358-1
Analyst: MRF Batch Start Date: 05/01/2018
Reporting Units: mg/L Analytical Batch No.: 411985

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	20:31	Cyanide, Total	0.245	0.250	98	90-110		CN CCV_00851
2	CCB	20:32	Cyanide, Total	0.010				U	
13	CCV	20:48	Cyanide, Total	0.241	0.250	96	90-110		CN CCV_00851
14	CCB	20:50	Cyanide, Total	0.010				U	
25	CCV	21:06	Cyanide, Total	0.237	0.250	95	90-110		CN CCV_00851
26	CCB	21:07	Cyanide, Total	0.010				U	
31	CCV	21:14	Cyanide, Total	0.241	0.250	96	90-110		CN CCV_00851
32	CCB	21:16	Cyanide, Total	0.010				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-134358-1
 SDG No.: 480-134358-1
 Analyst: JXT Batch Start Date: 04/25/2018
 Reporting Units: ug/L Analytical Batch No.: 514046

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICV	15:30	Cyanide, Free	51.48	50.0	103	85-115		WT29016-50ppb_00437
9	ICB	15:30	Cyanide, Free	5.0				U	
11	CCV	15:30	Cyanide, Free	48.93	50.0	98	85-115		WT9016-50ppb_00421
12	CCB	15:30	Cyanide, Free	5.0				U	
23	CCV	15:30	Cyanide, Free	48.93	50.0	98	85-115		WT9016-50ppb_00421
24	CCB	15:30	Cyanide, Free	5.0				U	
35	CCV	15:30	Cyanide, Free	48.93	50.0	98	85-115		WT9016-50ppb_00421
36	CCB	15:30	Cyanide, Free	5.0				U	
46	CCV	15:30	Cyanide, Free	48.93	50.0	98	85-115		WT9016-50ppb_00421
47	CCB	15:30	Cyanide, Free	5.0				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG No.: 480-134358-1

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 411719 Date: 04/30/2018 17:22 Prep Batch: 411703 Date: 04/30/2018 13:25							
9012B	MB 480-411703/1-A	Cyanide, Total	0.010	U	mg/L	0.010	1
Batch ID: 411985 Date: 05/01/2018 20:34 Prep Batch: 411979 Date: 05/01/2018 18:07							
9012B	MB 480-411979/1-A	Cyanide, Total	0.010	U	mg/L	0.010	1
Batch ID: 410919 Date: 04/25/2018 19:30							
SM 2540C	MB 480-410919/1	Total Dissolved Solids	10.0	U	mg/L	10.0	1
Batch ID: 415058 Date: 05/17/2018 18:21							
SM 2540C	MB 480-415058/1	Total Dissolved Solids	10.0	U	mg/L	10.0	1
Batch ID: 410389 Date: 04/23/2018 16:00							
SM 2540D	MB 480-410389/1	Total Suspended Solids	1.0	U	mg/L	1.0	1
Batch ID: 410680 Date: 04/24/2018 20:02							
SM 2540D	MB 480-410680/1	Total Suspended Solids	1.0	U	mg/L	1.0	1

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG No.: 480-134358-1

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 514046 Date: 04/25/2018 15:30	Prep Batch: 513896 Date: 04/25/2018 04:56						
9016	MB 460-513896/1-A	Cyanide, Free	5.0	U	ug/L	5.0	1
Batch ID: 514046 Date: 04/25/2018 15:30	Prep Batch: 513974 Date: 04/25/2018 07:51						
9016	MB 460-513974/1-A	Cyanide, Free	5.0	U	ug/L	5.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG No.: 480-134358-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 514046 Date: 04/25/2018 15:30 Prep Batch: 513974 Date: 04/25/2018 07:51											
9016	480-134358-9	Cyanide, Free	18.1		ug/L						F1
9016	480-134358-9	Cyanide, Free	54.36		ug/L	50.0	73	90-110			F1
MS											

Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG No.: 480-134358-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 514046	Date: 04/25/2018 15:30	Prep Batch: 513974	Date: 04/25/2018 07:51								
9016	480-134358-9	Cyanide, Free	51.48		ug/L	50.0	67	90-110	5	12	F1
MSD											

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 410919 Date: 04/25/2018 19:30								
SM 2540C	SW-04	480-134444-9	Total Dissolved Solids	2210	mg/L			
SM 2540C	SW-04	480-134444-9 DU	Total Dissolved Solids	2193	mg/L	0.8	10	E

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG No.: 480-134358-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 411719 Date: 04/30/2018 17:23 Prep Batch: 411703 Date: 04/30/2018 13:25 LCS Source: LCS 400_00019											
9012B	LCS 480-411703/2-A	Cyanide, Total	0.371		mg/L	0.400	93	90-110			
Batch ID: 411719 Date: 04/30/2018 17:25 Prep Batch: 411703 Date: 04/30/2018 13:25 LCS Source: CN LCS 250_00021											
9012B	LCS 480-411703/3-A	Cyanide, Total	0.251		mg/L	0.250	100	90-110			
Batch ID: 411985 Date: 05/01/2018 20:35 Prep Batch: 411979 Date: 05/01/2018 18:07 LCS Source: CN LCS 250_00021											
9012B	LCS 480-411979/2-A	Cyanide, Total	0.253		mg/L	0.250	101	90-110			
Batch ID: 410919 Date: 04/25/2018 19:30 LCS Source: NaCl Std 02_00270											
SM 2540C	LCS 480-410919/2	Total Dissolved Solids	507.0		mg/L	503	101	85-115			
Batch ID: 415058 Date: 05/17/2018 18:21 LCS Source: NaCl Std 02_00292											
SM 2540C	LCS 480-415058/2	Total Dissolved Solids	452.0		mg/L	507	89	85-115			
Batch ID: 410389 Date: 04/23/2018 16:00 LCS Source: WC_TSS_DTErth_00010											
SM 2540D	LCS 480-410389/2	Total Suspended Solids	245.6		mg/L	256	96	88-110			
Batch ID: 410680 Date: 04/24/2018 20:02 LCS Source: WC_TSS_DTErth_00010											
SM 2540D	LCS 480-410680/2	Total Suspended Solids	301.6		mg/L	308	98	88-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-134358-1

SDG No.: 480-134358-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 514046 Date: 04/25/2018 15:30 Prep Batch: 513896 Date: 04/25/2018 04:56											
LCS Source: WT9016-2mg/l_00298											
9016	LCS 460-513896/2-A	Cyanide, Free	45.07		ug/L	50.0	90	90-110			
Batch ID: 514046 Date: 04/25/2018 15:30 Prep Batch: 513974 Date: 04/25/2018 07:51											
LCS Source: WT9016-2mg/l_00298											
9016	LCS 460-513974/2-A	Cyanide, Free	45.07		ug/L	50.0	90	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
DETECTION LIMIT CHECK STANDARD
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-134358-1

SDG No.: 480-134358-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 514046 Date: 04/25/2018 15:30											
						LCS Source: WT9016-2mg/l_00298					
9016	DLCK 460-514046/10	Cyanide, Free	2.00	J	ug/L	2.00	100	50-150			

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: LACHAT2

Method: 9012B

MDL Date: 01/29/2010 00:00

Prep Method: 9012B

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: LACHAT2

Method: 9012B

XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: Balance-1

Method: SM 2540C

MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: Balance-1

Method: SM 2540C

XMDL Date: 08/17/2009 10:52

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: Balance-15

Method: SM 2540C

MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: Balance-15

Method: SM 2540C

XMDL Date: 08/17/2009 10:52

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: Balance-3

Method: SM 2540D

RL Date: 09/14/2009 17:05

Analyte	Wavelength/ Mass	RL (mg/L)	
Total Suspended Solids		4	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: Balance-3

Method: SM 2540D

XMDL Date: 12/07/2016 15:18

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Suspended Solids		4	1

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 480-134358-1

SDG Number: 480-134358-1

Matrix: Water

Instrument ID: Wet9016

Method: 9016

MDL Date: 08/15/2016 13:13

Prep Method: 9016

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cyanide, Free		5	1.54

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-134358-1
SDG Number: 480-134358-1
Matrix: Water Instrument ID: Wet9016
Method: 9016 XMDL Date: 08/15/2016 13:14

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cyanide, Free		5	1.54

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG No.: 480-134358-1

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-411703/1-A	04/30/2018 13:25	411703		6	6
LCS 480-411703/2-A	04/30/2018 13:25	411703		6	6
LCS 480-411703/3-A	04/30/2018 13:25	411703		6	6
480-134358-1	04/30/2018 13:25	411703		6	6
480-134358-2	04/30/2018 13:25	411703		6	6
480-134358-3	04/30/2018 13:25	411703		6	6
480-134358-4	04/30/2018 13:25	411703		6	6
480-134358-5	04/30/2018 13:25	411703		6	6
480-134358-9	04/30/2018 13:25	411703		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-134358-1

SDG No.: 480-134358-1

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-411979/1-A	05/01/2018 18:07	411979		6	6
LCS 480-411979/2-A	05/01/2018 18:07	411979		6	6
480-134444-1	05/01/2018 18:07	411979		6	6
480-134444-2	05/01/2018 18:07	411979		6	6
480-134444-3	05/01/2018 18:07	411979		6	6
480-134444-4	05/01/2018 18:07	411979		6	6
480-134444-6	05/01/2018 18:07	411979		6	6
480-134444-7	05/01/2018 18:07	411979		6	6
480-134444-8	05/01/2018 18:07	411979		6	6
480-134444-9	05/01/2018 18:07	411979		6	6
480-134444-10	05/01/2018 18:07	411979		6	6
480-134444-11	05/01/2018 18:07	411979		6	6
480-134444-12	05/01/2018 18:07	411979		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG No.: 480-134358-1

Prep Method: 9016

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-513896/1-A	04/25/2018 04:56	513896		3	1.3
LCS 460-513896/2-A	04/25/2018 04:56	513896		3	1.3
480-134358-1	04/25/2018 04:57	513896		3	1.3
480-134358-2	04/25/2018 04:57	513896		3	1.3
480-134358-3	04/25/2018 04:57	513896		3	1.3
480-134358-4	04/25/2018 04:57	513896		3	1.3
480-134358-5	04/25/2018 04:57	513896		3	1.3
480-134444-1	04/25/2018 04:57	513896		3	1.3
480-134444-2	04/25/2018 04:57	513896		3	1.3
480-134444-3	04/25/2018 04:57	513896		3	1.3
480-134444-4	04/25/2018 04:57	513896		3	1.3
480-134444-6	04/25/2018 04:57	513896		3	1.3
480-134444-7	04/25/2018 04:57	513896		3	1.3
480-134444-8	04/25/2018 04:57	513896		3	1.3
480-134444-9	04/25/2018 04:57	513896		3	1.3
480-134444-10	04/25/2018 04:57	513896		3	1.3
480-134444-11	04/25/2018 04:57	513896		3	1.3
480-134444-12	04/25/2018 04:57	513896		3	1.3

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG No.: 480-134358-1

Prep Method: 9016

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-513974/1-A	04/25/2018 07:51	513974		3	1.3
LCS 460-513974/2-A	04/25/2018 07:51	513974		3	1.3
480-134358-9	04/25/2018 07:51	513974		3	1.3
480-134358-9 MS	04/25/2018 07:51	513974		3	1.3
480-134358-9 MSD	04/25/2018 07:51	513974		3	1.3

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: LACHAT2 Method: 9012B

Start Date: 04/30/2018 17:19 End Date: 04/30/2018 18:08

Lab Sample ID	D / F	T y p e	Time	Analytes															
				C N															
CCV 480-411719/1	1		17:19	X															
CCB 480-411719/2	1		17:20	X															
MB 480-411703/1-A	1	T	17:22	X															
LCS 480-411703/2-A	1	T	17:23	X															
LCS 480-411703/3-A	1	T	17:25	X															
ZZZZZZ			17:26																
ZZZZZZ			17:27																
ZZZZZZ			17:29																
ZZZZZZ			17:30																
ZZZZZZ			17:32																
ZZZZZZ			17:33																
ZZZZZZ			17:35																
CCV 480-411719/13	1		17:36	X															
CCB 480-411719/14	1		17:38	X															
ZZZZZZ			17:39																
ZZZZZZ			17:40																
ZZZZZZ			17:42																
ZZZZZZ			17:43																
480-134358-1	1	T	17:45	X															
480-134358-2	1	T	17:46	X															
ZZZZZZ			17:48																
ZZZZZZ			17:49																
ZZZZZZ			17:50																
ZZZZZZ			17:52																
CCV 480-411719/25	1		17:53	X															
CCB 480-411719/26	1		17:55	X															
ZZZZZZ			17:56																
ZZZZZZ			17:58																
480-134358-3	2	T	17:59	X															
480-134358-4	5	T	18:01	X															
480-134358-5	2	T	18:02	X															
480-134358-9	10	T	18:03	X															
ZZZZZZ			18:05																
CCV 480-411719/34	1		18:06	X															
CCB 480-411719/35	1		18:08	X															

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: LACHAT2 Method: 9012B

Start Date: 05/01/2018 20:31 End Date: 05/01/2018 21:16

Lab Sample ID	D / F	T y p e	Time	Analytes															
				C N															
CCV 480-411985/1	1		20:31	X															
CCB 480-411985/2	1		20:32	X															
MB 480-411979/1-A	1	T	20:34	X															
LCS 480-411979/2-A	1	T	20:35	X															
ZZZZZZ			20:37																
ZZZZZZ			20:38																
ZZZZZZ			20:40																
ZZZZZZ			20:41																
ZZZZZZ			20:43																
ZZZZZZ			20:44																
480-134444-1	1	T	20:45	X															
ZZZZZZ			20:47																
CCV 480-411985/13	1		20:48	X															
CCB 480-411985/14	1		20:50	X															
ZZZZZZ			20:51																
480-134444-4	1	T	20:53	X															
480-134444-6	1	T	20:54	X															
480-134444-7	1	T	20:55	X															
480-134444-8	1	T	20:57	X															
480-134444-9	1	T	20:58	X															
480-134444-10	1	T	21:00	X															
480-134444-11	1	T	21:01	X															
480-134444-12	1	T	21:03	X															
ZZZZZZ			21:04																
CCV 480-411985/25	1		21:06	X															
CCB 480-411985/26	1		21:07	X															
ZZZZZZ			21:08																
ZZZZZZ			21:10																
480-134444-2	2	T	21:11	X															
480-134444-3	2	T	21:13	X															
CCV 480-411985/31	1		21:14	X															
CCB 480-411985/32	1		21:16	X															

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: Balance-1 Method: SM 2540C

Start Date: 04/25/2018 19:30 End Date: 04/25/2018 19:30

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				T D S																	
MB 480-410919/1	1	T	19:30	X																	
LCS 480-410919/2	1	T	19:30	X																	
480-134444-9	1	T	19:30	X																	
480-134444-9 DU	1	T	19:30	X																	
480-134444-6	1	T	19:30	X																	
480-134444-7	1	T	19:30	X																	
480-134444-8	1	T	19:30	X																	
480-134444-4	1	T	19:30	X																	
480-134444-10	1	T	19:30	X																	
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
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ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		
ZZZZZZ			19:30																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: Balance-15 Method: SM 2540C

Start Date: 05/17/2018 18:21 End Date: 05/17/2018 18:21

[illegible]

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: Balance-3 Method: SM 2540D

Start Date: 04/23/2018 16:00 End Date: 04/23/2018 16:00

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				T S S																	
MB 480-410389/1	1	T	16:00	X																	
LCS 480-410389/2	1	T	16:00	X																	
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
480-134444-4	1	T	16:00	X																	
480-134444-6	1	T	16:00	X																	
480-134444-7	1	T	16:00	X																	
480-134444-8	1	T	16:00	X																	
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		
ZZZZZZ			16:00																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: Balance-3 Method: SM 2540D

Start Date: 04/24/2018 20:02 End Date: 04/24/2018 20:02

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				T S S																	
MB 480-410680/1	1	T	20:02	X																	
LCS 480-410680/2	1	T	20:02	X																	
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
480-134444-9	1	T	20:02	X																	
480-134444-10	1	T	20:02	X																	
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		
ZZZZZZ			20:02																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: Wet9016 Method: 9016

Start Date: 04/25/2018 15:30 End Date: 04/25/2018 15:30

Lab Sample ID	D / F	T y p e	Time	Analytes															
				C N F r e e															
IC 460-514046/1			15:30	X															
IC 460-514046/2			15:30	X															
IC 460-514046/3			15:30	X															
IC 460-514046/4			15:30	X															
IC 460-514046/5			15:30	X															
IC 460-514046/6			15:30	X															
IC 460-514046/7			15:30	X															
ICV 460-514046/8	1		15:30	X															
ICB 460-514046/9	1		15:30	X															
DLCK 460-514046/10	1	T	15:30	X															
CCV 460-514046/11	1		15:30	X															
CCB 460-514046/12	1		15:30	X															
MB 460-513896/1-A	1	T	15:30	X															
LCS 460-513896/2-A	1	T	15:30	X															
ZZZZZZ			15:30																
ZZZZZZ			15:30																
ZZZZZZ			15:30																
ZZZZZZ			15:30																
ZZZZZZ			15:30																
ZZZZZZ			15:30																
480-134358-1	1	T	15:30	X															
480-134358-2	1	T	15:30	X															
CCV 460-514046/23	1		15:30	X															
CCB 460-514046/24	1		15:30	X															
480-134358-3	1	T	15:30	X															
480-134358-4	1	T	15:30	X															
480-134358-5	1	T	15:30	X															
480-134444-1	1	T	15:30	X															
480-134444-2	1	T	15:30	X															
480-134444-3	1	T	15:30	X															
480-134444-4	1	T	15:30	X															
480-134444-6	1	T	15:30	X															
480-134444-7	1	T	15:30	X															
480-134444-8	1	T	15:30	X															
CCV 460-514046/35	1		15:30	X															
CCB 460-514046/36	1		15:30	X															
480-134444-9	1	T	15:30	X															
480-134444-10	1	T	15:30	X															
480-134444-11	1	T	15:30	X															
480-134444-12	1	T	15:30	X															
MB 460-513974/1-A	1	T	15:30	X															
LCS 460-513974/2-A	1	T	15:30	X															

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-134358-1

SDG No.: 480-134358-1

Instrument ID: Wet9016 Method: 9016

Start Date: 04/25/2018 15:30 End Date: 04/25/2018 15:30

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				C N F r e e																	
480-134358-9	1	T	15:30	X																	
480-134358-9 MS	1	T	15:30	X																	
480-134358-9 MSD	1	T	15:30	X																	
CCV 460-514046/46	1		15:30	X																	
CCB 460-514046/47	1		15:30	X																	

Prep Types

T = Total/NA

Solutions:

Potassium Phosphate Buffer	4608691	Exp. 10/25/2018
Pyridine Barbituric Acid	4615224	Exp. 07/16/2018
Chloramine-T	4620823	Exp. 04/30/2018
50ppm INT STD	4613194	Exp. 05/03/2018
CN .25ppm CCV Std	4620824	Exp. 04/30/2018

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/SD = 0.1mg/L

Cyanide Curve Lachat 2: 04/27/2018
Curve Standard(50 ppm) : 4613194
ICV (0.250 ppm): 480-411261/3

4/17/19

Author: BufLachat2

Date : 4/30/2018

Original Run Filename: OM_4-30-2018_05-18-32PM.OMN Created: 4/30/2018 5:18:32 PM

Original Run Author's Signature: [BufLachat2]

Current Run Filename: OM_4-30-2018_05-18-32PM.OMN Last Modified: 4/30/2018 6:11:19 PM

Current Run Author's Signature: [BufLachat2]

Description: 10-204-00-1-A

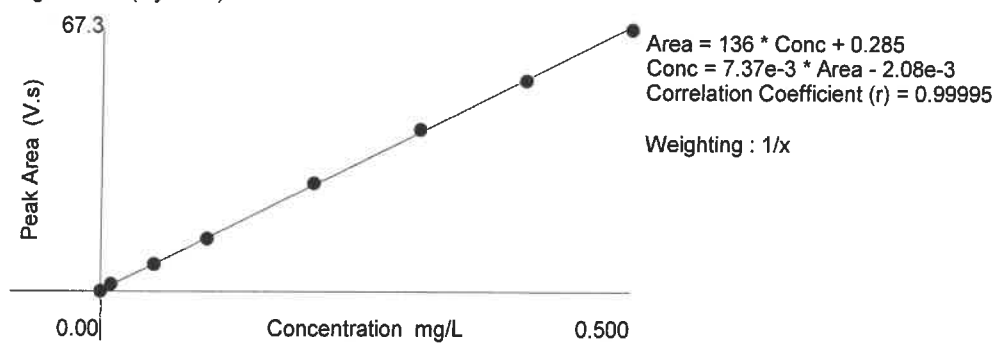
Sample	Rep.	Cup No.	Channel 1			Detection Time
			Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	
CCV	1	S9	0.250	34.2	0.978	4/30/2018@5:19:18 PM
Known Conc:			1.50			
Calibration: Table/Fig. : 1						
CCB	1	S10	-1.25e-3	0.113	0.0121	4/30/2018@5:20:44 PM
Known Conc:			0.00			
MB 480-411703/1-A	1	1	-5.58e-4	0.207	8.08e-3	4/30/2018@5:22:11 PM
LCS 480-411703/2-A	1	2	0.371	50.6	1.46	4/30/2018@5:23:38 PM
LCS 480-411703/3-A	1	3	0.251	34.3	0.989	4/30/2018@5:25:05 PM
CCVL 480-411703/4-A	1	4	0.0832	11.6	0.332	4/30/2018@5:26:32 PM
480-134341-E-4-A	1	5	1.07e-3	0.428	0.0107	4/30/2018@5:27:59 PM
480-134341-E-4-B DU	1	6	8.35e-4	0.396	0.0131	4/30/2018@5:29:25 PM
480-134341-E-5-A	1	7	1.39e-3	0.471	0.0126	4/30/2018@5:30:52 PM
480-134341-E-5-B MS	1	8	0.133	18.3	0.518	4/30/2018@5:32:18 PM
480-134341-E-6-A	1	9	-3.33e-3	-0.170	-0.0118	4/30/2018@5:33:44 PM
480-134341-E-7-A	1	10	0.0126	2.00	0.0546	4/30/2018@5:35:11 PM
CCV	1	S9	0.244	33.3	0.962	4/30/2018@5:36:36 PM
Known Conc:			100			
CCB	1	S10	1.31e-4	0.300	9.70e-3	4/30/2018@5:38:02 PM
Known Conc:			100			
480-134341-E-8-A	1	11	2.35e-3	0.601	0.0170	4/30/2018@5:39:28 PM
480-134341-E-9-A	1	12	1.69e-3	0.512	0.0149	4/30/2018@5:40:54 PM
480-134341-E-10-A	1	13	2.59e-4	0.317	0.0113	4/30/2018@5:42:20 PM
480-134341-E-11-A	1	14	1.83e-4	0.307	0.0129	4/30/2018@5:43:46 PM
480-134358-A-1-B	1	15	0.0108	1.74	0.0489	4/30/2018@5:45:11 PM
480-134358-A-2-B	1	16	0.405	55.2	1.56	4/30/2018@5:46:38 PM
480-134358-A-3-A	1	17	0.799	109	3.06	4/30/2018@5:48:05 PM
480-134358-A-4-A	1	18	0.930	126	3.55	4/30/2018@5:49:32 PM
480-134358-A-5-A	1	19	0.632	86.0	2.42	4/30/2018@5:50:59 PM
480-134358-A-9-A	1	20	2.10	285	6.50	4/30/2018@5:52:25 PM
CCV	1	S9	0.249	34.0	0.976	4/30/2018@5:53:52 PM
Known Conc:			100			
CCB	1	S10	-1.58e-4	0.261	0.0140	4/30/2018@5:55:18 PM
Known Conc:			100			
480-134348-F-1-A	1	21	3.28e-3	0.727	0.0207	4/30/2018@5:56:45 PM
480-134348-F-1-B MS	1	22	0.0783	10.9	0.266	4/30/2018@5:58:10 PM
480-134358-A-3-A^2	1	23	0.258	35.3	1.09	4/30/2018@5:59:37 PM
480-134358-A-4-A^5	1	24	0.119	16.4	0.468	4/30/2018@6:01:04 PM
480-134358-A-5-A^2	1	25	0.357	48.7	1.41	4/30/2018@6:02:29 PM
480-134358-A-9-A^10	1	26	0.192	26.3	0.752	4/30/2018@6:03:55 PM
480-134358-A-9-A^20	1	27	0.113	15.6	0.444	4/30/2018@6:05:21 PM
CCV	1	S9	0.252	34.4	0.984	4/30/2018@6:06:47 PM
Known Conc:			100			
CCB	1	S10	-1.07e-3	0.137	5.45e-3	4/30/2018@6:08:14 PM
Known Conc:			100			

2.5-7.5mL
1-7.5mL
2.5-7.5mL
0.5-7.5mL
0.25-7.5mL

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	67.3	1.94	0.0	1.2	0.494	4/27/2018	12:47:55 PM
2	0.400	1	54.2	1.58	0.0	0.6	0.398	4/27/2018	12:49:21 PM
3	0.300	1	41.7	1.20	0.0	-1.8	0.305	4/27/2018	12:50:48 PM
4	0.200	1	27.8	0.796	0.0	-1.5	0.203	4/27/2018	12:52:14 PM
5	0.100	1	13.6	0.390	0.0	1.7	0.0982	4/27/2018	12:53:41 PM
6	0.0500	1	7.02	0.201	0.0	0.6	0.0497	4/27/2018	12:55:09 PM
7	0.0100	1	1.87	0.0530	0.0	-14.3	0.0117	4/27/2018	12:56:36 PM
8	0.00	1	0.0618	6.15e-3			-1.62e-3	4/27/2018	12:58:03 PM

Figure : 1 (Cyanide)



Analyst: MVF Date: 4/30/18
 TALS Batch #: 411703

TestAmerica BUFFALO
 Cyanide Micro-Distillation Logbook

Logbook # A17-01-51

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6	N/A			
LCS	@400	2			6mL	✓	
LCS	@250	3				✓	
CCVL	@100	4				✓	
134341	E4	5					
	E4DU	6					
	E5	7					
	ESMS	8			60µL	✓	
	E6	9					
	E7	10					
	E8	11					
	E9	12					
	E10	13					
	E11	14					
134358	A1	15					
	A2	16					
	A3	17					
	A4	18					
	A5	19					
	A9	20					
134348	F1	21					
	F1MS	22			60µL	✓	

Start Time: 1325
 End Time: 1355

0.400 mg/L Complex CN LCS: 4620483
 0.250 mg/L Complex CN LCS: 4620484
 0.100 mg/L Free CN CCVL: 4620480
 10 ppm Complex CN MS: 4620481
 10 ppm Free CN MS: N/A
 ERA Soil Lot: N/A

1.0 N NaOH: 4282609
 7.11M H₂SO₄/0.79M MgCl₂: 4589886
 H₂NSO₃: 4566126
 NaCH₃COO: N/A
 ZnCH₃COO: N/A

Cl₂ Check: ✓
 H₂S Check: ✓

SimpleDist Block A: Set Temp. (°C): 120.0 Measured Start Temp. (°C): 119.0 Measured End Temp. (°C): 119.8

Reviewed By: MVF Date: 4/30/18

Historical Data Summary Report

For Batch 411719

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-134358-A-1-B	MW-13	9012B	Cyanide, Total	Total/NA	mg/L	5	1.0	0.011	☐ 0 - 0.988	☐ 0.008 - 0.636
480-134358-A-2-B	MW-23	9012B	Cyanide, Total	Total/NA	mg/L	5	1.0	0.41	☐ 0.269 - 0.972	☐ 0.384 - 0.936
480-134358-A-3-A	^MW-14	9012B	Cyanide, Total	Total/NA	mg/L	5	2.0	0.52	☐ 0.473 - 0.839	☐ 0.48 - 0.888
480-134358-A-4-A	^MW-20	9012B	Cyanide, Total	Total/NA	mg/L	5	5.0	0.60	☐ 0 - 1.307	☐ 0.12 - 1.068
480-134358-A-5-A	^MW-21	9012B	Cyanide, Total	Total/NA	mg/L	5	2.0	0.71	☒ 0.384 - 0.529	☒ 0.344 - 0.6 <i>CR</i>
480-134358-A-9-A	^MW-16	9012B	Cyanide, Total	Total/NA	mg/L	5	10.0	1.9	☐ 0.161 - 1.987	☒ 0.584 - 1.8 <i>CR</i>

Solutions:

Potassium Phosphate Buffer	4608691	Exp. 10/25/2018
Pyridine Barbituric Acid	4615224	Exp. 07/16/2018
Chloramine-T	4622573	Exp. 05/01/2018
50ppm INT STD	4613194	Exp. 05/03/2018
CN .25ppm CCV Std	4622574	Exp. 05/01/2018

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/SD = 0.1mg/L

Cyanide Curve Lachat 2: 05/01/2018
Curve Standard(50 ppm) : 4613194
ICV (0.250 ppm): 480-411817/2

411985

Author: BufLachat2

Date : 5/1/2018

Original Run Filename: OM_5-1-2018_08-30-43PM.OMN Created: 5/1/2018 8:30:43 PM

Original Run Author's Signature: [BufLachat2]

Current Run Filename: OM_5-1-2018_08-30-43PM.OMN Last Modified: 5/1/2018 9:19:07 PM

Current Run Author's Signature: [BufLachat2]

Description: 10-204-00-1-A

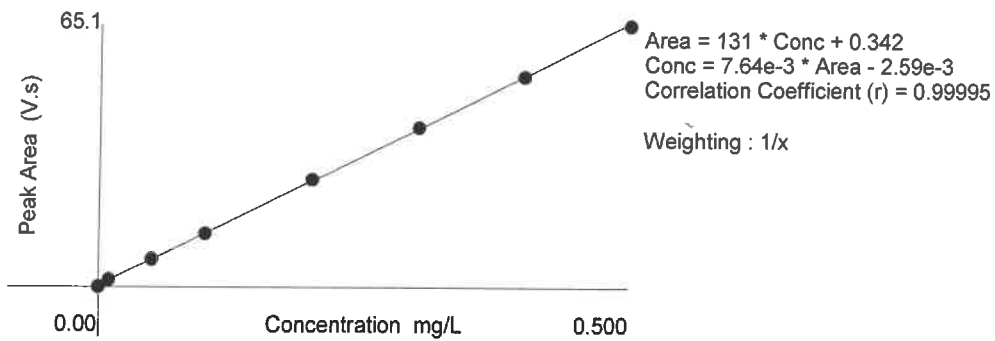
Sample	Rep.	Cup No.	Channel 1			Detection Time
			Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	
CCV	1	S9	0.245	32.4	0.939	5/1/2018@8:31:29 PM
Known Conc:			1.50			
Calibration: Table/Fig. : 1						
CCB	1	S10	-2.50e-3	0.0128	7.64e-3	5/1/2018@8:32:55 PM
Known Conc:			0.00			
MB 480-411979/1-A	1	1	-2.82e-3	-0.0295	-4.18e-3	5/1/2018@8:34:22 PM
LCS 480-411979/2-A	1	2	0.253	33.5	0.963	5/1/2018@8:35:49 PM
CCVL 480-411979/3-A	1	3	0.0853	11.5	0.329	5/1/2018@8:37:16 PM
480-134433-F-1-A	1	4	0.0144	2.22	0.0633	5/1/2018@8:38:43 PM
480-134433-F-1-B DU	1	5	0.0141	2.19	0.0616	5/1/2018@8:40:10 PM
480-134437-N-1-A	1	6	-2.19e-3	0.0527	-3.17e-3	5/1/2018@8:41:36 PM
480-134437-N-1-B MS	1	7	0.0360	5.05	0.129	5/1/2018@8:43:03 PM
480-134437-N-2-A	1	8	-2.04e-3	0.0718	6.71e-3	5/1/2018@8:44:29 PM
480-134444-C-1-A	1	9	0.110	14.8	0.429	5/1/2018@8:45:55 PM
480-134444-A-2-A	1	10	0.506	66.5	1.90	5/1/2018@8:47:21 PM
CCV	1	S9	0.241	31.9	0.923	5/1/2018@8:48:47 PM
Known Conc:			100			
CCB	1	S10	-7.54e-4	0.241	9.48e-3	5/1/2018@8:50:13 PM
Known Conc:			100			
480-134444-A-3-A	1	11	0.625	82.2	2.37	5/1/2018@8:51:40 PM
480-134444-D-4-A	1	12	0.228	30.2	0.891	5/1/2018@8:53:05 PM
480-134444-D-6-A	1	13	0.0632	8.61	0.248	5/1/2018@8:54:31 PM
480-134444-D-7-A	1	14	0.132	17.6	0.507	5/1/2018@8:55:57 PM
480-134444-B-8-A	1	15	0.240	31.7	0.909	5/1/2018@8:57:22 PM
480-134444-B-9-A	1	16	9.46e-3	1.58	0.0479	5/1/2018@8:58:49 PM
480-134444-B-10-A	1	17	1.04e-3	0.475	0.0132	5/1/2018@9:00:16 PM
480-134444-C-11-A	1	18	0.239	31.6	0.910	5/1/2018@9:01:43 PM
480-134444-C-12-A	1	19	-2.76e-3	-0.0217	4.17e-3	5/1/2018@9:03:10 PM
480-134451-F-1-A	1	20	-7.92e-4	0.236	9.72e-3	5/1/2018@9:04:37 PM
CCV	1	S9	0.237	31.4	0.916	5/1/2018@9:06:02 PM
Known Conc:			100			
CCB	1	S10	-3.24e-3	-0.0850	4.23e-3	5/1/2018@9:07:29 PM
Known Conc:			100			
480-134451-F-2-A	1	21	-2.03e-3	0.0743	7.80e-3	5/1/2018@9:08:55 PM
480-134451-F-2-B MS	1	22	0.0873	11.8	0.342	5/1/2018@9:10:22 PM
480-134444-A-2-A^2	1	23	0.219	29.0	0.836	5/1/2018@9:11:48 PM
480-134444-A-3-A^2	1	24	0.405	53.3	1.54	5/1/2018@9:13:14 PM
CCV	1	S9	0.241	31.8	0.922	5/1/2018@9:14:40 PM
Known Conc:			100			
CCB	1	S10	-3.20e-3	-0.0798	-3.01e-3	5/1/2018@9:16:07 PM
Known Conc:			100			

255 mL
1

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	65.1	1.91	0.0	1.0	0.495	5/1/2018	11:34:28 AM
2	0.400	1	52.6	1.55	0.0	0.2	0.399	5/1/2018	11:35:54 AM
3	0.300	1	39.9	1.18	0.0	-0.7	0.302	5/1/2018	11:37:21 AM
4	0.200	1	26.9	0.855	0.0	-1.3	0.203	5/1/2018	11:38:48 AM
5	0.100	1	13.3	0.388	0.0	0.9	0.0990	5/1/2018	11:40:15 AM
6	0.0500	1	6.90	0.199	0.0	-0.3	0.0501	5/1/2018	11:41:42 AM
7	0.0100	1	1.89	0.0531	0.0	-14.3	0.0118	5/1/2018	11:43:10 AM
8	0.00	1	0.104	7.38e-3			-1.80e-3	5/1/2018	11:44:36 AM

Figure : 1 (Cyanide)



Analyst: MNF Date: 5/1/18
TALS Batch #: 411979

TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook

Logbook # A17-01-51

Job #	Sample LD.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6	N/A			
LCS	@250	2			6mL	✓	
CCVL	@100	3			1	✓	
134433	F1	4					
1	F100	5					
134437	N1	6					
1	N1MS	7			60mL	✓	
1	N2	8					
134444	C1	9					
	A2	10					
	A3	11					
	D4	12					
	D6	13					
	D7	14					
	B8	15					
	B9	16					
	B10	17					
	C11	18					
	C12	19					
134451	F1	20					
133451	F2	21					
	F2MS	22			60mL	✓	

Start Time: 1807
End Time: 1837

Cl₂ Check: ✓
H₂S Check: ✓

0.400 mg/L Complex CN LCS: 4620483
0.250 mg/L Complex CN LCS: 4620484
0.100 mg/L Free CN CCVL: 4620480
10 ppm Complex CN MS: 4620481
10 ppm Free CN MS: N/A
ERA Soil Lot: N/A

1.0 N NaOH: 4282604
7.11M H₂SO₄/0.79M MgCl₂: 4589886
H₂NSO₃: 4566726
NaCH₃COO: N/A
ZnCH₃COO: N/A

SimpleDist Block AB: Set Temp. (°C): 120.0 Measured Start Temp. (°C): 120.0 Measured End Temp. (°C): 119.2

Reviewed By: MNF Date: 5/1/18

Historical Data Summary Report

For Batch 411985

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-134444-A-2-A	MW-22	9012B	Cyanide, Total	Total/NA	mg/L	5	2.0	0.44	☒ 0.545 - 1.082	☒ 0.597 - 1.188
480-134444-A-3-A	MW-12	9012B	Cyanide, Total	Total/NA	mg/L	5	2.0	0.81	☐ 0.214 - 1.029	☐ 0.421 - 1.068
480-134444-C-11-A Duplicate		9012B	Cyanide, Total	Total/NA	mg/L	3	1.0	0.24	☒ 0.272 - 1.014	☒ 0.515 - 0.772
480-134444-C-12-A EB		9012B	Cyanide, Total	Total/NA	mg/L	5	1.0	0.010	☐ 0.01 - 0.01	☐ 0.008 - 0.012
480-134444-C-1-A	MW-17	9012B	Cyanide, Total	Total/NA	mg/L	5	1.0	0.11	☐ 0 - 0.31	☐ 0.071 - 0.264
480-134444-D-6-A	SW-01	9012B	Cyanide, Total	Total/NA	mg/L	5	1.0	0.063	☒ 0 - 0.033	☒ 0.004 - 0.03
480-134444-D-7-A	SW-02	9012B	Cyanide, Total	Total/NA	mg/L	5	1.0	0.13	☐ 0 - 0.239	☐ 0.008 - 0.192
480-134451-F-1-A	G10D	335.4	Total Cyanide	Total/NA	mg/L	8	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-134451-F-2-A	R11D	335.4	Total Cyanide	Total/NA	mg/L	8	1.0	ND	☐ 0 - 0	☐ 0 - 0

OK
OK
OK

Historical Data Summary Report

For Batch 410919

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-134444-A-10	SW-05	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	863	615 - 615	492 - 738
480-134444-A-4	MW-11A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	702	766 - 766	612.8 - 919.2
480-134444-A-6	SW-01	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	824	608 - 608	486.4 - 729.6
480-134444-A-7	SW-02	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	366	554 - 554	443.2 - 664.8
480-134444-A-8	SW-03	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	411	644 - 644	515.2 - 772.8
480-134451-C-1	G10D	2540C_Calcd	Total Dissolved Solids Filtered	Field Dissolved	mg/L	8	1.0	385	332.326 - 428.174	277.6 - 481.2
480-134451-C-2	R11D	2540C_Calcd	Total Dissolved Solids Filtered	Field Dissolved	mg/L	8	1.0	328	303.954 - 377.546	257.6 - 435.6
480-134454-A-1	MW-13S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	411	264.034 - 541.716	273.6 - 582
480-134454-A-2	MW-14S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	273	0 - 757.629	103.2 - 592.8
480-134454-A-3	MW-15S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	409	0 - 912.477	108 - 747.6
480-134454-A-4	MW-16D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	660	522.379 - 848.121	477.6 - 921.6
480-134454-A-5	MW-16S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	338	239.494 - 396.006	216.8 - 410.4
480-134454-A-6	MW-19D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	284	5.681 - 322.319	76 - 308.4
480-134454-A-7	MW-19S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	78.0	0 - 91.325	15.2 - 81.6
480-134454-A-8	MW-6S2	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	944	632.317 - 990.183	572.8 - 1074
480-134454-A-9	MW-7S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1060	190.573 - 1806.177	448.8 - 1920

Historical Data Summary Report

For Batch 415058

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-134444-A-9	SW-04	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	1960	876 - 876	☒ 700.8 - 1051.2 <i>OK</i>
480-134832-A-1	Effluent	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	112	0 - 889.368	☐ 0 - 706.8
480-135113-A-7	W-3A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2820	2607.96 - 2947.04	☐ 2160 - 3444
480-135113-B-5	W-10	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2810	2552.28 - 3547.72	☐ 2232 - 4056
480-135113-B-6	W-7	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2780	2732.958 - 3347.042	☐ 2312 - 3888
480-135113-C-10	W-15	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	3020	2464.023 - 3703.477	☐ 2200 - 4080
480-135113-C-11	W-14D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	3250	2941.275 - 4528.725	☐ 2784 - 5208
480-135113-C-12	W-14S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1850	1733.354 - 2061.646	☐ 1480 - 2412
480-135132-G-1	INTERCEPTOR	TR2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	654	0 - 82187.854	☐ 508.8 - 76440
480-135136-A-1	1008BR2	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	61	58.279 - 115.471	☐ 56.8 - 120
480-135136-A-7	630E	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	47	35.592 - 158.408	☒ 60.8 - 168 <i>RE</i>
480-135136-B-2	1008ER2	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	240	198.759 - 381.241	☐ 176 - 384
480-135314-A-2	MW12A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	400	400.776 - 542.474	☐ 351.2 - 608.4
480-135815-A-1	FB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	ND	5 - 5	☒ 4 - 6 <i>OK only 1 data point</i>
480-135825-B-1	P-328L	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	4	1.0	171	80 - 269	☐ 114.4 - 247.2
480-135825-B-2	P-327L	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	4	1.0	183	187 - 271	☐ 172 - 291.6
480-135831-E-1	Outfall 003 Grab	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	296	0 - 746.203	☐ 0 - 594

706 of 740

05/30/2018

Historical Data Summary Report

For Batch 410389

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-134416-B-1	LST01	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	14.2	☐ 0 - 195.517	☐ 6.4 - 183.6
480-134416-B-2	LST02	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	12.0	☐ 0 - 196.299	☐ 11.2 - 171.6
480-134469-A-1	WWE Eff. Comp.	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	110	☐ 0 - 286.938	☐ 59.2 - 300
480-134472-A-3	OUTLET #002	2540D	Total Suspended Solids	Total/NA	mg/L	4	1.0	4.4	☐ 0 - 183.885	☒ 6.72 - 144.0
480-134472-E-1	OUTLET #001	2540D	Total Suspended Solids	Total/NA	mg/L	4	1.0	110	☐ 0 - 128.539	☒ 0 - 84

Historical Data Summary Report

For Batch 410680

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-134342-A-1	WWE Eff. Comp.	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	65	☐ 0 - 296.404	☐ 43.2 - 300
480-134477-B-3	001 COMP	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	<4.0	☐ 0 - 11.925	☐ 0 - 11.04
480-134477-C-1	01A COMP	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	<4.0	☐ 0 - 8	☐ 0 - 4.8
480-134487-A-1	18-02548 HMV DUP	2540D	Total Suspended Solids	Total/NA	mg/L	5	1.0	58	☒ 0.441 - 21.079	☒ 3.84 - 18 O/K
480-134489-A-1	18-02543 HMV	2540D	Total Suspended Solids	Total/NA	mg/L	5	1.0	140	☒ 0.441 - 21.079	☒ 3.84 - 18 O/K
480-134490-A-2	EFFLUENT	2540D	Total Suspended Solids	Total/NA	mg/L	6	1.0	27.2	☐ 22.437 - 45.396	☐ 23.68 - 49.2
480-134490-B-1	INFLUENT	2540D	Total Suspended Solids	Total/NA	mg/L	6	1.0	32.4	☐ 0 - 1238.695	☒ 49.36 - 1182 O/K
480-134517-A-1	FEC	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	34	☒ 0 - 31.212	☒ 3.52 - 26.4 O/K
480-134556-D-1	Outfall 001	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	32.4	☐ 0 - 76.978	☐ 0 - 66.24
480-134557-C-1	Outfall 003	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	45.0	☒ 0 - 26.246	☒ 0 - 26.4 Re to confirm
480-134557-C-2	Outfall 004	2540D	Total Suspended Solids	Total/NA	mg/L	6	1.0	ND	☐ 0 - 5.653	☐ 0 - 5.28
480-134621-B-1	FEC	2540D	Total Suspended Solids	Total/NA	mg/L	8	1.0	57	☒ 0 - 31.212	☒ 3.52 - 26.4 O/K

Job	# 720-85907, 460-153962, 600-164327					
Batch	# 512407					
Sample	Dil.	Matrix	1 st [abs]	2 nd [abs]	Avg. [abs]	
0			0.000	0.000	0.000	
2			0.008	0.005	0.007	
5			0.012	0.017	0.015	
10			0.022	0.020	0.021	
25			0.050	0.052	0.051	
50			0.103	0.105	0.104	
150			0.296	0.306	0.301	
ICV			0.087	0.087	0.087	
ICB			0.000	0.000	0.000	
DLCK			~~0.007~~ 0.005	~~0.005~~ 0.005	~~0.003~~ 0.005	
CCV			0.103	0.103	0.103	
CCB			0.000	0.000	0.000	
MB			0.005	0.005	0.005	
LCS			0.203	0.198	0.201	
85907-1	1X	Solid	0.005	0.006	0.006	
↓ -1 ms	↓	↓	0.183	0.174	0.175	
↓ -1 msd	↓	↓	0.186	0.201	0.194	
↓ -2	↓	↓	0.005	0.005	0.005	
MB	—	—	0.003	0.008	0.006	
LCS	—	—	0.213	0.213	0.213	
153962-2	1X	Water	0.006	0.004	0.005	
↓ -2 ms	↓	↓	0.012	0.010	0.011	
CCV	—	—	0.103	0.103	0.103	
CCB	—	—	0.000	0.000	0.000	
153962-2 MSD	1X	Water	0.016	0.006	0.011	
164327-1	~~20X~~ 50X	↓	0.296	0.213	0.255	
153962-1	1X	↓	0.008	0.008	0.008	
CCV	—	—	0.103	0.103	0.103	
CCB	—	—	0.000	0.000	0.000	

Continued on Page

J.T.

Signed

04/19/18

Date

Read and Understood By

Signed

Date

Job	# 490-150279, 460-154550, 490-150192, 480-134358, 480-134444					
Batch	# 314046					
Sample	Dil.	Matrix	1 st [abs]	2 nd [abs]	Avg. [abs]	
0			0.000	0.000	0.000	
2			0.006	0.005	0.006	
5			0.010	0.010	0.010	
10			0.019	0.022	0.021	
25			0.051	0.051	0.051	
50			0.099	0.098	0.099	
150			0.293	0.296	0.295	
ICV			0.102	0.102	0.102	
ICB			0.000	0.000	0.000	
DLCK			0.004	0.005	0.005	
CCV			0.096	0.097	0.097	
CCB			0.000	0.000	0.000	
MB			0.006	0.003	0.005	
LCS			0.204	0.205	0.205	
150279-2	1X	Water	0.000	0.002	0.001	
↓ -2 ms	↓	↓	0.159	0.164	0.162	
↓ -2 msd	↓	↓	0.173	0.180	0.177	
154550-1	—	—	0.004	0.003	0.004	
↓ -2	—	—	0.005	0.007	0.006	
150192-1	—	—	0.001	0.004	0.003	
134358-1	—	—	0.003	0.006	0.005	
↓ -2	—	—	0.003	0.003	0.003	
CCV	—	—	0.096	0.097	0.097	
CCB	—	—	0.000	0.000	0.000	
134358-3	1X	Water	0.006	0.003	0.005	
↓ -4	↓	↓	0.004	0.002	0.002	
↓ -5	↓	↓	0.008	0.002	0.005	
134444-1	—	—	0.003	0.000	0.002	
↓ -2	—	—	0.006	0.008	0.007	
↓ -3	—	—	0.011	0.018	0.015	

Continued on Page 40

J.T.

Signed

04/25/18

Date

Read and Understood By

Signed

Date

Sample	D/L	Matrix	1st [abs]	2nd [abs]	Avg. [abs]
134444-4	IX	Water	0.000	0.000	0.000
↓ -6	↓	↓	0.027	0.021	0.024
↓ -7	↓	↓	0.034	0.033	0.033
↓ -8	↓	↓	0.076	0.075	0.076
CCV	—	—	0.076	0.077	0.077
CCB	—	—	0.000	0.000	0.000
134444-9	IX	Water	0.001	0.000	0.001
↓ -10	↓	↓	0.000	0.004	0.002
↓ -11	↓	↓	0.000	0.000	0.000
↓ -12	↓	↓	0.000	0.000	0.000
MB	—	—	0.004	0.004	0.004
LCS	—	—	0.204	0.205	0.205
124353-9	IX	Water	0.087	0.078	0.083
↓ -9 MS	↓	↓	0.250	0.243	0.247
↓ -9 MSP	↓	↓	0.216	0.252	0.234
CCV	—	—	0.076	0.077	0.077
CCB	—	—	0.000	0.000	0.000

Continued on Page

J.T.

Read and Understood By

Signed

04/25/18

Date

Signed

Date

Calibration

Calib 514046-0 / Cyanide, Free

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Concentration
Calib Mode: ESTD
Response Base: AREA
RF Rounding: 0

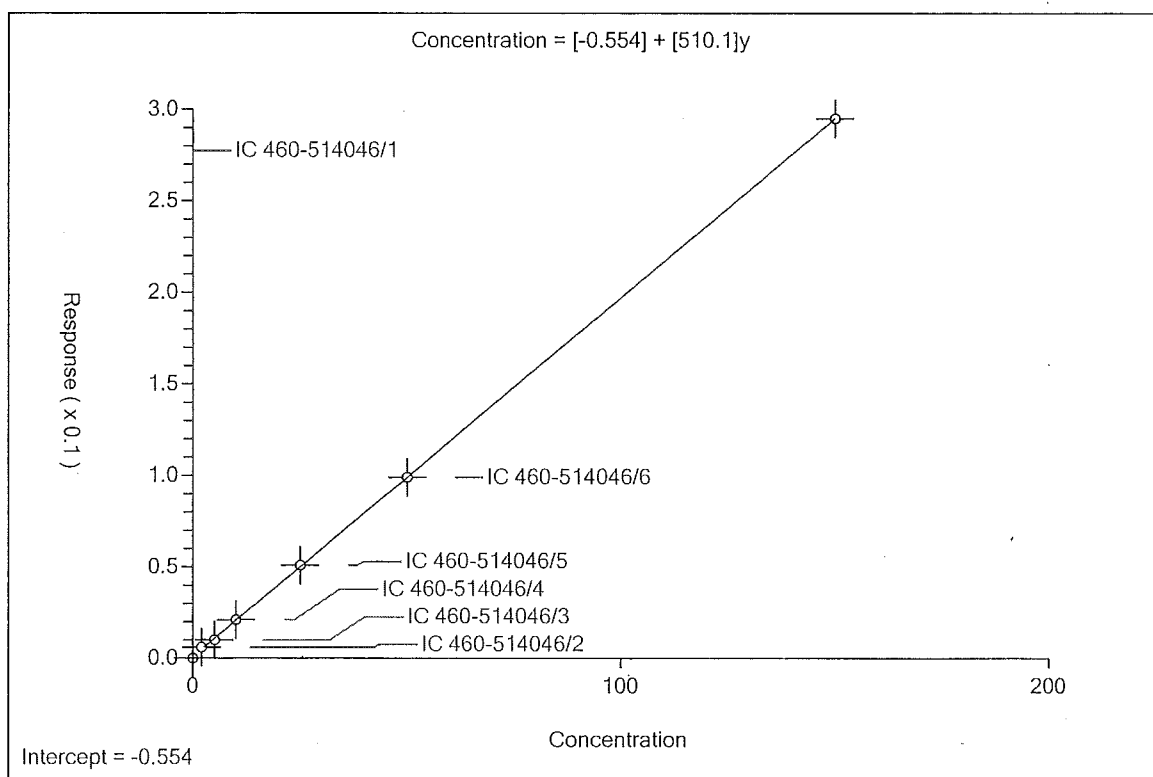
Curve Coefficients

Intercept: -0.554
Slope: 510.1

Error Coefficients

Standard Error: 0.451
Relative Standard Error: 13.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 460-514046/1	0.0	0.0			NaN	Y
2	IC 460-514046/2	2.0	0.006			0.003	Y
3	IC 460-514046/3	5.0	0.01			0.002	Y
4	IC 460-514046/4	10.0	0.021			0.0021	Y
5	IC 460-514046/5	25.0	0.051			0.00204	Y
6	IC 460-514046/6	50.0	0.099			0.00198	Y
7	IC 460-514046/7	150.0	0.295			0.001967	Y



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Batch Number: 411703 Batch Start Date: 04/30/18 13:25 Batch Analyst: Foster, Michelle R

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN LCS 250 00021	LCS 400 00019		
MB 480-411703/1		9012B, 9012B		6 mL	6 mL				
LCS 480-411703/2		9012B, 9012B		6 mL	6 mL		# mL		
LCS 480-411703/3		9012B, 9012B		6 mL	6 mL	# mL			
480-134358-A-1	MW-13	9012B, 9012B	T	6 mL	6 mL				
480-134358-A-2	MW-23	9012B, 9012B	T	6 mL	6 mL				
480-134358-A-3	MW-14	9012B, 9012B	T	6 mL	6 mL				
480-134358-A-4	MW-20	9012B, 9012B	T	6 mL	6 mL				
480-134358-A-5	MW-21	9012B, 9012B	T	6 mL	6 mL				
480-134358-A-9	MW-16	9012B, 9012B	T	6 mL	6 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 411719 Batch Start Date: 04/30/18 17:19 Batch Analyst: Foster, Michelle RBatch Method: 9012B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 00850			
CCV 480-411719/1		9012B		5 mL	5 mL	# mL			
CCB 480-411719/2		9012B		5 mL	5 mL				
MB 480-411703/1-A		9012B		5 mL	5 mL				
LCS 480-411703/2-A		9012B		5 mL	5 mL				
LCS 480-411703/3-A		9012B		5 mL	5 mL				
CCV 480-411719/13		9012B		5 mL	5 mL	# mL			
CCB 480-411719/14		9012B		5 mL	5 mL				
480-134358-A-1-B	MW-13	9012B	T	5 mL	5 mL				
480-134358-A-2-B	MW-23	9012B	T	5 mL	5 mL				
CCV 480-411719/25		9012B		5 mL	5 mL	# mL			
CCB 480-411719/26		9012B		5 mL	5 mL				
480-134358-A-3-A ^2	MW-14	9012B	T	5 mL	5 mL				
480-134358-A-4-A ^5	MW-20	9012B	T	5 mL	5 mL				
480-134358-A-5-A ^2	MW-21	9012B	T	5 mL	5 mL				
480-134358-A-9-A ^10	MW-16	9012B	T	5 mL	5 mL				
480-134358-A-9-A ^20	MW-16	9012B	T	5 mL	5 mL				
CCV 480-411719/34		9012B		5 mL	5 mL	# mL			
CCB 480-411719/35		9012B		5 mL	5 mL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

Page 1 of 2

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 411719 Batch Start Date: 04/30/18 17:19 Batch Analyst: Foster, Michelle RBatch Method: 9012B Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1

SDG No.: 480-134358-1

Batch Number: 411979 Batch Start Date: 05/01/18 18:07 Batch Analyst: Foster, Michelle R

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN LCS 250 00021			
MB 480-411979/1		9012B, 9012B		6 mL	6 mL				
LCS 480-411979/2		9012B, 9012B		6 mL	6 mL	# mL			
480-134444-C-1	MW-17	9012B, 9012B	T	6 mL	6 mL				
480-134444-A-2	MW-22	9012B, 9012B	T	6 mL	6 mL				
480-134444-A-3	MW-12	9012B, 9012B	T	6 mL	6 mL				
480-134444-D-4	MW-11A	9012B, 9012B	T	6 mL	6 mL				
480-134444-D-6	SW-01	9012B, 9012B	T	6 mL	6 mL				
480-134444-D-7	SW-02	9012B, 9012B	T	6 mL	6 mL				
480-134444-B-8	SW-03	9012B, 9012B	T	6 mL	6 mL				
480-134444-B-9	SW-04	9012B, 9012B	T	6 mL	6 mL				
480-134444-B-10	SW-05	9012B, 9012B	T	6 mL	6 mL				
480-134444-C-11	Duplicate	9012B, 9012B	T	6 mL	6 mL				
480-134444-C-12	EB	9012B, 9012B	T	6 mL	6 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 411985 Batch Start Date: 05/01/18 20:31 Batch Analyst: Foster, Michelle RBatch Method: 9012B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 00851			
CCV 480-411985/1		9012B		5 mL	5 mL	# mL			
CCB 480-411985/2		9012B		5 mL	5 mL				
MB 480-411979/1-A		9012B		5 mL	5 mL				
LCS 480-411979/2-A		9012B		5 mL	5 mL				
480-134444-C-1-A	MW-17	9012B	T	5 mL	5 mL				
CCV 480-411985/13		9012B		5 mL	5 mL	# mL			
CCB 480-411985/14		9012B		5 mL	5 mL				
480-134444-D-4-A	MW-11A	9012B	T	5 mL	5 mL				
480-134444-D-6-A	SW-01	9012B	T	5 mL	5 mL				
480-134444-D-7-A	SW-02	9012B	T	5 mL	5 mL				
480-134444-B-8-A	SW-03	9012B	T	5 mL	5 mL				
480-134444-B-9-A	SW-04	9012B	T	5 mL	5 mL				
480-134444-B-10-A	SW-05	9012B	T	5 mL	5 mL				
480-134444-C-11-A	Duplicate	9012B	T	5 mL	5 mL				
480-134444-C-12-A	EB	9012B	T	5 mL	5 mL				
CCV 480-411985/25		9012B		5 mL	5 mL	# mL			
CCB 480-411985/26		9012B		5 mL	5 mL				
480-134444-A-2-A ^2	MW-22	9012B	T	5 mL	5 mL				
480-134444-A-3-A ^2	MW-12	9012B	T	5 mL	5 mL				
CCV 480-411985/31		9012B		5 mL	5 mL	# mL			
CCB 480-411985/32		9012B		5 mL	5 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 411985 Batch Start Date: 05/01/18 20:31 Batch Analyst: Foster, Michelle RBatch Method: 9012B Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9012B

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410919 Batch Start Date: 04/25/18 19:30 Batch Analyst: Boafo-Asare, Emmanuel KBatch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 480-410919/1		SM 2540C		B	+112.4589 g	100 mL	+112.4580 g	+112.4581 g	Pass No Unit
LCS 480-410919/2		SM 2540C		Adol	+109.2298 g	100 mL	+109.2802 g	+109.2805 g	Pass No Unit
480-134444-A-9	SW-04	SM 2540C	T	Brain	+112.5513 g	100 mL	+112.7724 g		N/A No Unit
480-134444-A-9 DU	SW-04	SM 2540C	T	LG	+103.9227 g	100 mL	+104.1420 g		N/A No Unit
480-134444-A-6	SW-01	SM 2540C	T	SRT	+99.9535 g	100 mL	+100.0360 g	+100.0359 g	Pass No Unit
480-134444-A-7	SW-02	SM 2540C	T	gel	+121.0748 g	100 mL	+121.1115 g	+121.1114 g	Pass No Unit
480-134444-A-8	SW-03	SM 2540C	T	Fox	+120.9310 g	100 mL	+120.9724 g	+120.9721 g	Pass No Unit
480-134444-A-4	MW-11A	SM 2540C	T	Yaris	+114.4062 g	100 mL	+114.4768 g	+114.4764 g	Pass No Unit
480-134444-A-10	SW-05	SM 2540C	T	Cinco	+111.1416 g	100 mL	+111.2280 g	+111.2279 g	Pass No Unit

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight40K	Residue	Residue2	Residue3	Residue4
MB 480-410919/1		SM 2540C		N/A No Unit	N/A	-0.0009 g	-0.0008 g	N/A g	N/A g
LCS 480-410919/2		SM 2540C		N/A No Unit	N/A	0.0504 g	0.0507 g	N/A g	N/A g
480-134444-A-9	SW-04	SM 2540C	T	N/A No Unit	N/A	0.2211 g	N/A g	N/A g	N/A g
480-134444-A-9 DU	SW-04	SM 2540C	T	N/A No Unit	N/A	0.2193 g	N/A g	N/A g	N/A g
480-134444-A-6	SW-01	SM 2540C	T	N/A No Unit	N/A	0.0825 g	0.0824 g	N/A g	N/A g
480-134444-A-7	SW-02	SM 2540C	T	N/A No Unit	N/A	0.0367 g	0.0366 g	N/A g	N/A g
480-134444-A-8	SW-03	SM 2540C	T	N/A No Unit	N/A	0.0414 g	0.0411 g	N/A g	N/A g
480-134444-A-4	MW-11A	SM 2540C	T	N/A No Unit	N/A	0.0706 g	0.0702 g	N/A g	N/A g
480-134444-A-10	SW-05	SM 2540C	T	N/A No Unit	N/A	0.0864 g	0.0863 g	N/A g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	NaCl Std 02 00270			
MB 480-410919/1		SM 2540C		100 mL	OK				
LCS 480-410919/2		SM 2540C		100 mL	OK	100 mL			
480-134444-A-9	SW-04	SM 2540C	T	100 mL	Residue >0.2g				
480-134444-A-9 DU	SW-04	SM 2540C	T	100 mL	Residue >0.2g				
480-134444-A-6	SW-01	SM 2540C	T	100 mL	OK				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2540C

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410919 Batch Start Date: 04/25/18 19:30 Batch Analyst: Boafo-Asare, Emmanuel KBatch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	NaCl Std 02 00270			
480-134444-A-7	SW-02	SM 2540C	T	100 mL	OK				
480-134444-A-8	SW-03	SM 2540C	T	100 mL	OK				
480-134444-A-4	MW-11A	SM 2540C	T	100 mL	OK				
480-134444-A-10	SW-05	SM 2540C	T	100 mL	OK				

Batch Notes	
Balance ID	1
Date/Time - In - CW (WT2)	04/28/2018 08:58
Date/Time - Out - CW (WT2)	04/28/2018 12:27
Temperature - Start - CW (WT2) - Correct	188.6 Degrees C
Temperature - End - CW (WT2) - Correct	178.1 Degrees C
Temperature - Start-CW(WT2) -Uncorrected	189.9 Degrees C
Temperature - End-CW(WT2) -Uncorrected	179.4 Degrees C
Date/Time - In - CW (WT3)	04/28/2018 15:42
Date/Time - Out - CW (WT3)	04/30/2018 13:48
Temperature - Start - CW (WT3) - Correct	179.4 Degrees C
Temperature - End - CW (WT3) - Correct	178.5 Degrees C
Temperature - Start-CW(WT3) -Uncorrected	180.7 Degrees C
Temperature - End-CW(WT3) -Uncorrected	179.8 Degrees C
Temperature - Start - Corrected	90 Degrees C
Temperature - End - Corrected	104 Degrees C
Date/Time - In	04/25/2018 20:44
Date/Time - Out	04/28/2018 08:52
Filter ID	12300051
Nominal Amount Used	100 mL
Oven ID	105-1
Temperature - Start - Uncorrected	90 Degrees C
Temperature - End - Uncorrected	104 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2540C

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410919 Batch Start Date: 04/25/18 19:30 Batch Analyst: Boafo-Asare, Emmanuel KBatch Method: SM 2540C Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2540C

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 415058 Batch Start Date: 05/17/18 18:21 Batch Analyst: Cherizard, Claude-MartheBatch Method: SM 2540C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 480-415058/1		SM 2540C		jada	126.7568 g	100 mL	+126.7561 g	+126.7563 g	Pass No Unit
LCS 480-415058/2		SM 2540C		bpbbby	115.3289 g	100 mL	+115.3741 g	+115.3741 g	Pass No Unit
480-134444-A-9	SW-04	SM 2540C	T	child	104.4543 g	25 mL	+104.5032 g	+104.5034 g	Pass No Unit

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight40K	Residue	Residue2	Residue3	Residue4
MB 480-415058/1		SM 2540C		N/A No Unit	N/A	-0.0007 g	-0.0005 g	N/A g	N/A g
LCS 480-415058/2		SM 2540C		N/A No Unit	N/A	0.0452 g	0.0452 g	N/A g	N/A g
480-134444-A-9	SW-04	SM 2540C	T	N/A No Unit	N/A	0.0489 g	0.0491 g	N/A g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	NaCl Std 02 00292			
MB 480-415058/1		SM 2540C		100 mL	OK				
LCS 480-415058/2		SM 2540C		100 mL	OK	100 mL			
480-134444-A-9	SW-04	SM 2540C	T	100 mL	OK				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2540C

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 415058 Batch Start Date: 05/17/18 18:21 Batch Analyst: Cherizard, Claude-MartheBatch Method: SM 2540C Batch End Date: _____

Batch Notes	
Balance ID	15
Date/Time - In - CW (WT2)	05/22/2018 22:00
Date/Time - Out - CW (WT2)	05/24/2018 16:30
Temperature - Start - CW (WT2) - Correct	175 Degrees C
Temperature - End - CW (WT2) - Correct	183 Degrees C
Temperature - Start-CW(WT2) -Uncorrected	175 Degrees C
Temperature - End-CW(WT2) -Uncorrected	183 Degrees C
Temperature - Start - Corrected	89 Degrees C
Temperature - End - Corrected	96 Degrees C
Date/Time - In	05/17/2018 20:45
Date/Time - Out	05/19/2018 20:49
Filter ID	15491080
Nominal Amount Used	100 mL
Oven ID	105-
Temperature - Start - Uncorrected	89 Degrees C
Temperature - End - Uncorrected	96 Degrees C
Weight(WT1) Start Date/Time	05/19/2018 20:53 No Unit
Weight(WT1) Date/Time Out	05/22/2018 20:45
Weight(WT1) Start Temp	171 Celsius
Weight(WT1) Temp Out	173 Celsius
Uncorrected Weight(WT1) Start Temp	171 Celsius
Uncorrected Weight(WT1) Temp Out	173 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410389 Batch Start Date: 04/23/18 16:00 Batch Analyst: Bennett, Mark ABatch Method: SM 2540D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 480-410389/1		SM 2540D		1	2.6356 g	1000 mL	2.6352 g	2.6353 g	0 g
LCS 480-410389/2		SM 2540D		2	2.6087 g	250 mL	2.6704 g	2.6701 g	0 g
480-134444-A-4	MW-11A	SM 2540D	T	14	2.6357 g	250 mL	2.6435 g	2.6438 g	0 g
480-134444-A-6	SW-01	SM 2540D	T	15	2.5987 g	250 mL	2.5995 g	2.5992 g	0 g
480-134444-A-7	SW-02	SM 2540D	T	16	2.6237 g	250 mL	2.6315 g	2.6318 g	0 g
480-134444-A-8	SW-03	SM 2540D	T	17	2.6291 g	250 mL	2.6299 g	2.6302 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	Residue	Residue2	FinalAmount	ResDishWt	DishWeight
MB 480-410389/1		SM 2540D		PASS <0.5mg	-0.0004 g	-0.0003 g	250 mL	2.6353 g	2.6356 g
LCS 480-410389/2		SM 2540D		PASS <0.5mg	0.0617 g	0.0614 g	250 mL	2.6701 g	2.6087 g
480-134444-A-4	MW-11A	SM 2540D	T	PASS <0.5mg	0.0078 g	0.0081 g	250 mL	2.6438 g	2.6357 g
480-134444-A-6	SW-01	SM 2540D	T	PASS <0.5mg	0.0008 g	0.0005 g	250 mL	2.5992 g	2.5987 g
480-134444-A-7	SW-02	SM 2540D	T	PASS <0.5mg	0.0078 g	0.0081 g	250 mL	2.6318 g	2.6237 g
480-134444-A-8	SW-03	SM 2540D	T	PASS <0.5mg	0.0008 g	0.0011 g	250 mL	2.6302 g	2.6291 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC_TSS DTErth 00010					
MB 480-410389/1		SM 2540D							
LCS 480-410389/2		SM 2540D		0.0639 g					
480-134444-A-4	MW-11A	SM 2540D	T						
480-134444-A-6	SW-01	SM 2540D	T						
480-134444-A-7	SW-02	SM 2540D	T						
480-134444-A-8	SW-03	SM 2540D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410389 Batch Start Date: 04/23/18 16:00 Batch Analyst: Bennett, Mark ABatch Method: SM 2540D Batch End Date: _____

Batch Notes	
Balance ID	3
Date/Time - In - CW (WT2)	04/24/2018 10:27
Date/Time - Out - CW (WT2)	04/24/2018 11:40
Temperature - Start - CW (WT2) - Correct	102 Celsius
Temperature - End - CW (WT2) - Correct	104 Celsius
Temperature - Start-CW(WT2) -Uncorrected	102 Celsius
Temperature - End-CW(WT2) -Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Temperature - End - Corrected	103 Celsius
Date/Time - In	04/23/2018 19:22
Date/Time - Out	04/24/2018 09:30
Filter ID	9799496
Nominal Amount Used	250 mL
Oven ID	105-2
Perform Calculation (0=No, 1=Yes)	1
Temperature - Start - Uncorrected	104 Celsius
Temperature - End - Uncorrected	103 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410680 Batch Start Date: 04/24/18 20:02 Batch Analyst: Hasenauer, Samuel MBatch Method: SM 2540D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 480-410680/1		SM 2540D		1	2.6271 g	1000 mL	2.6267 g	2.6267 g	0 g
LCS 480-410680/2		SM 2540D		2	2.6429 g	250 mL	2.7182 g	2.7183 g	0 g
480-134444-A-9	SW-04	SM 2540D	T	13	2.6109 g	250 mL	2.6130 g	2.6133 g	0 g
480-134444-A-10	SW-05	SM 2540D	T	14	2.6280 g	250 mL	2.6293 g	2.6297 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	Residue	Residue2	FinalAmount	ResDishWt	DishWeight
MB 480-410680/1		SM 2540D		PASS <0.5mg	-0.0004 g	-0.0004 g	250 mL	2.6267 g	2.6271 g
LCS 480-410680/2		SM 2540D		PASS <0.5mg	0.0753 g	0.0754 g	250 mL	2.7183 g	2.6429 g
480-134444-A-9	SW-04	SM 2540D	T	PASS <0.5mg	0.0021 g	0.0024 g	250 mL	2.6133 g	2.6109 g
480-134444-A-10	SW-05	SM 2540D	T	PASS <0.5mg	0.0013 g	0.0017 g	250 mL	2.6297 g	2.628 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC_TSS_DTErth 00010					
MB 480-410680/1		SM 2540D							
LCS 480-410680/2		SM 2540D		0.0769 g					
480-134444-A-9	SW-04	SM 2540D	T						
480-134444-A-10	SW-05	SM 2540D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-134358-1SDG No.: 480-134358-1Batch Number: 410680 Batch Start Date: 04/24/18 20:02 Batch Analyst: Hasenauer, Samuel MBatch Method: SM 2540D Batch End Date: _____

Batch Notes	
Balance ID	3
Date/Time - In - CW (WT2)	04/25/2018 10:17
Date/Time - Out - CW (WT2)	04/25/2018 11:41
Temperature - Start - CW (WT2) - Correct	105 Celsius
Temperature - End - CW (WT2) - Correct	104 Celsius
Temperature - Start-CW(WT2) -Uncorrected	105 Celsius
Temperature - End-CW(WT2) -Uncorrected	104 Celsius
Date/Time - In - CW (WT3)	04/25/2018 12:41
Date/Time - Out - CW (WT3)	04/26/2018 10:09
Temperature - Start - CW (WT3) - Correct	103 Celsius
Temperature - End - CW (WT3) - Correct	96 Celsius
Temperature - Start-CW(WT3) -Uncorrected	103 Celsius
Temperature - End-CW(WT3) -Uncorrected	96 Celsius
Temperature - Start - Corrected	105 Celsius
Temperature - End - Corrected	104 Celsius
Date/Time - In	04/24/2018 22:25
Date/Time - Out	04/25/2018 08:43
Filter ID	9799496
Nominal Amount Used	250 mL
Oven ID	105-2
Perform Calculation (0=No, 1=Yes)	1
Temperature - Start - Uncorrected	105 Celsius
Temperature - End - Uncorrected	104 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison

Job No.: 480-134358-1

SDG No.: 480-134358-1

Batch Number: 513896

Batch Start Date: 04/25/18 05:45

Batch Analyst: Njieha, Karianna Y

Batch Method: 9016

Batch End Date: 04/25/18 11:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ResidualChloChe ck	SulfideCheck	WT9016-2mg/l 00298	AnalysisComment
MB 460-513896/1		9016, 9016		3 mL	1.3 mL	N	N		MB
LCS 460-513896/2		9016, 9016		3 mL	1.3 mL	N	N	0.075 mL	LCS 1-4
480-134358-D-1	MW-13	9016, 9016	T	3 mL	1.3 mL	N	N		1-5
480-134358-D-2	MW-23	9016, 9016	T	3 mL	1.3 mL	N	N		1-6
480-134358-B-3	MW-14	9016, 9016	T	3 mL	1.3 mL	N	N		1-7
480-134358-B-4	MW-20	9016, 9016	T	3 mL	1.3 mL	N	N		1-8
480-134358-B-5	MW-21	9016, 9016	T	3 mL	1.3 mL	N	N		1-9
480-134444-D-1	MW-17	9016, 9016	T	3 mL	1.3 mL	N	N		1-10
480-134444-B-2	MW-22	9016, 9016	T	3 mL	1.3 mL	N	N		1-11
480-134444-B-3	MW-12	9016, 9016	T	3 mL	1.3 mL	N	N		1-12
480-134444-E-4	MW-11A	9016, 9016	T	3 mL	1.3 mL	N	N		1-13
480-134444-E-6	SW-01	9016, 9016	T	3 mL	1.3 mL	N	N		1-14
480-134444-E-7	SW-02	9016, 9016	T	3 mL	1.3 mL	N	N		1-15
480-134444-C-8	SW-03	9016, 9016	T	3 mL	1.3 mL	N	N		1-16
480-134444-C-9	SW-04	9016, 9016	T	3 mL	1.3 mL	N	N		1-17
480-134444-C-10	SW-05	9016, 9016	T	3 mL	1.3 mL	N	N		1-18
480-134444-D-11	Duplicate	9016, 9016	T	3 mL	1.3 mL	N	N		1-19
480-134444-D-12	EB	9016, 9016	T	3 mL	1.3 mL	N	N		1-20

Batch Notes	
Batch Comment	2.05 g/L NaOH C-5288-17 Exp 06/01/18
Potassium Phosphate ID	190 soln KH ₂ PO ₄ C-6077-18 Exp 09/27/2018
Sodium Hydroxide ID	4.1 g/L NaOH C-6137-18 Exp 10/24/18

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-134358-1

SDG No.: 480-134358-1

Batch Number: 513974 Batch Start Date: 04/25/18 07:30 Batch Analyst: Njieha, Karianna Y

Batch Method: 9016 Batch End Date: 04/25/18 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ResidualChloChe ck	SulfideCheck	WT9016-2mg/l 00298	AnalysisComment
MB 460-513974/1		9016, 9016		3 mL	1.3 mL	N	N		MB
LCS 460-513974/2		9016, 9016		3 mL	1.3 mL	N	N	0.075 mL	LCS 1-4
480-134358-B-9	MW-16	9016, 9016	T	3 mL	1.3 mL	N	N		2-6
480-134358-B-9 MS	MW-16	9016, 9016	T	3 mL	1.3 mL	N	N	0.075 mL	MS
480-134358-B-9 MSD	MW-16	9016, 9016	T	3 mL	1.3 mL	N	N	0.075 mL	MSD

Batch Notes	
Batch Comment	2.05 g/L NaOH C-5288-17 Exp 06/01/18
Potassium Phosphate ID	190 soln KH ₂ PO ₄ C-6077-18 Exp 09/27/2018
Sodium Hydroxide ID	4.1 g/L NaOH C-6137-18 Exp 10/24/18

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-134358-1

SDG No.: 480-134358-1

Batch Number: 514046 Batch Start Date: 04/25/18 12:00 Batch Analyst: Tewira, Jovan X

Batch Method: 9016 Batch End Date: 04/25/18 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	WT29016-50ppb 00437	WT9016-2mg/l 00298	WT9016-50ppb 00421			
IC 460-514046/2		9016			0.1 mL				
IC 460-514046/3		9016			0.25 mL				
IC 460-514046/4		9016			0.5 mL				
IC 460-514046/5		9016			1.25 mL				
IC 460-514046/6		9016			2.5 mL				
IC 460-514046/7		9016			7.5 mL				
ICV 460-514046/8		9016		1 mL					
DLCK 460-514046/10		9016			0.001 mL				
CCV 460-514046/11		9016				1 mL			
CCV 460-514046/23		9016				1 mL			
CCV 460-514046/35		9016				1 mL			
CCV 460-514046/46		9016				1 mL			

Batch Notes	
Chloramine-T ID	C-6180-18 Exp.: 04/26/2018
Acidified Pot Phosphate Buffer ID	C-6060-18 Exp.: 09/22/2018
Pyridine-Barbituric Acid ID	C-6152-18 Exp.: 04/26/2018

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Rick Frank		Site Contact: Mike Gammie		Date:		COC No:	
Company Name: GEL Consultants		Tel/Fax: 716-204-7156		Lab Contact: John Schaefer		Carrier: HAND DELIVERY		of COCs	
Address: 90 B SOUTH AVENUE DRIVE				Analysis Turnaround Time				Sampler: Mike Gammie	
City/State/Zip: Amherst NY 14228				CALENDAR DAYS				For Lab Use Only:	
Phone: 716-204-7156				TAT if different from Below				Walk-in Client:	
Fax:				☐ 2 weeks				Lab Sampling:	
Project Name: MINERAL SPRINGS MGP				☐ 1 week				Job / SDG No.:	
Site:				☐ 2 days					
P O #				☐ 1 day					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes:	
MW-13	4/17	1030	G	W	7	Y	Y	480-134358 COC	
MW-23		9:40			7	Y	Y	TOTAL Cyanide	
MW-14		11:25			2	Y	Y	Free Cyanide	
MW-20		1230			2	Y	Y	BTEX	
MW-21		1415			2	Y	Y	PAHs	
MW-7		1335			5	N	N		
MW-10		1235			5	N	N		
TRIP BLANK					1				
MW-16		1415							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:		Custody Seal No.:		Cooler Temp. (°C): Obs'd: 4.9 Corr'd: 4		Therm ID No.:	
Relinquished by: Jerry Burke	Company: GEL Consultants	Date/Time: 4/17/18 1535	Received by: John Schaefer	Company: GEL Consultants	Date/Time: 4/17/18 1535		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:		
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:		

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Ver: 09/20/2016

Client Contact		Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:		Project Manager: Rick FRAPA		Site Contact: Mike Cummings		Date: 4/18/18		COC No:	
Company Name: GEL Consultants		Tel/Fax: 204-7156		Analysis Turnaround Time		Lab Contact: J. Schaefer		Carrier: HAND DELIVERY		COCs	
Address: 90B John Mauer Drive		City/State/Zip: Amherst NY 14228		TAT if different from Below		Performs MS/MSD (Y/N)		Filtered Sample (Y/N)		Sampler:	
Phone: 716-204-7156		Fax: 716-204-7156		☐ CALENDAR DAYS ☐ WORKING DAYS		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Project Name: MANSONA SPRINGS MGP		Site: 716-204-7156		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date		Sample Time		Matrix	
P O #						Sample Date		Sample Time		# of Cont.	
MW-17						4/18/18	1325	G	W	7	
MW-22							9:15				
MW-12							8:55				
MW-11A							10:10				
MW-19							10:35				
SW-01							14:15				
SW-02							11:30				
SW-03							12:05				
SW-04							12:45				
SW-05							13:05				
DUP-1											
EB-1							11:00				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seal No.:		Cooler Temp. (°C): Obs'd: 21.8		Therm ID No.: #1	
Relinquished by: [Signature]	Company: CEI	Received by: [Signature]	Company: THB	Date/Time: 4/18/18	1540
Relinquished by:	Company:	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Received in Laboratory by:	Company:	Date/Time:	

Chain of Custody Record

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Client Information (Sub Contract Lab)						Sampler:		Lab PM:	Carrier Tracking Note(s):	COC No:		
Client Contact:						Phone:		Schive, John R		480-41561.1		
Shipping/Receiving						E-Mail:	john.schive@testamericainc.com	State of Origin:	New York	Page: Page 1 of 2		
Company:						Accreditations Required (See note):			Job #:	480-134444-1		
TestAmerica Laboratories, Inc.									Preservation Codes:			
Address:						Due Date Requested:	4/30/2018	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:				
City:						TAT Requested (days):		M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ S ₂ O ₃ S - H ₂ SO ₄ T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
Edison												
State, Zip:						PO #:						
NJ, 08817						WC #:						
Phone:												
732-549-3900(Tel) 732-549-3679(Fax)												
Email:												
Project Name:						Project #:	48008324					
GEI Mineral Springs						SSOW#:						
Site:												
AECOM, Mineral Springs												
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (W=water, S=solid, O=wastewater, BT=Tissue, A=air)	Field Filtered Sample (Yes or No)	Total Number of Containers	Special Instructions/Note:
MMW-17 (480-134444-1)						4/18/18	13:25		Water	X		
MMW-22 (480-134444-2)						4/18/18	09:15		Water	X		
MMW-12 (480-134444-3)						4/18/18	08:55		Water	X		
MMW-11A (480-134444-4)						4/18/18	10:40		Water	X		
SW-01 (480-134444-6)						4/18/18	14:15		Water	X		
SW-02 (480-134444-7)						4/18/18	11:30		Water	X		
SW-03 (480-134444-8)						4/18/18	12:05		Water	X		
SW-04 (480-134444-9)						4/18/18	13:45		Water	X		
SW-05 (480-134444-10)						4/18/18	13:05		Water	X		
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.												
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months						
Unconfirmed						Special Instructions/QAC Requirements:						
Deliverable Requested: I, II, III, IV, Other (Specify)						Primary Deliverable Rank: 2						
Empty Kit Relinquished by:						Date:		Time:		Method of Shipment:		
Relinquished by:						Date/Time:		Received by:		Date/Time:		
Relinquished by:						Date/Time:		Received by:		Date/Time:		
Relinquished by:						Date/Time:		Received by:		Date/Time:		

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Chain of Custody Record

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[illegible]

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

SDG Number: 480-134358-1

Login Number: 134358

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GEI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

SDG Number: 480-134358-1

Login Number: 134358

List Number: 2

Creator: Armbruster, Chris

List Source: TestAmerica Edison

List Creation: 04/20/18 10:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	009854
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

SDG Number: 480-134358-1

Login Number: 134444

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GEI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GEI Consultants, Inc.

Job Number: 480-134358-1

SDG Number: 480-134358-1

Login Number: 134444

List Number: 2

Creator: Armbruster, Chris

List Source: TestAmerica Edison

List Creation: 04/20/18 10:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	009854
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B

Data Usability Report

Site: Mineral Springs
Laboratory: Test America, Amherst, NY
Report No.: 480-134358 and 480-134444
Reviewer: Lorie MacKinnon/GEI Consultants
Date: May 31, 2018

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
MW-13	480-134358-01	BTEX, PAH, Total/Free Cyanide
MW-23	480-134358-02	BTEX, PAH, Total/Free Cyanide
MW-14	480-134358-03	Total/Free Cyanide
MW-20	480-134358-04	Total/Free Cyanide
MW-21	480-134358-05	Total/Free Cyanide
MW-07	480-134358-06	BTEX, PAH
MW-10	480-134358-07	BTEX, PAH
TB (04/17)	480-134358-08	BTEX
MW-16	480-134358-09	Total/Free Cyanide
MW-17	480-134444-01	BTEX, PAH, Total/Free Cyanide
MW-22	480-134444-02	Total/Free Cyanide
MW-12	480-134444-03	Total/Free Cyanide
MW-11A	480-134444-04	BTEX, PAH, Total/Free Cyanide, TDS, TSS
MW-19	480-134444-05	BTEX, PAH
SW-01	480-134444-06	BTEX, PAH, Total/Free Cyanide, TDS, TSS
SW-02	480-134444-07	BTEX, PAH, Total/Free Cyanide, TDS, TSS
SW-03	480-134444-08	Total/Free Cyanide, TDS, TSS
SW-04	480-134444-09	Total/Free Cyanide, TDS, TSS
SW-05	480-134444-10	Total/Free Cyanide, TDS, TSS
Duplicate	480-134444-11	BTEX, PAH, Total/Free Cyanide
EB	480-134444-12	BTEX, PAH, Total/Free Cyanide
TB (04/18)	480-134444-14	BTEX
QC Samples(s):	Field/Trip blanks:	EB, TB (04/17), TB 04/18 (TB)
	Field Duplicate pair:	MW-11A/Duplicate

The above-listed aqueous samples, field blank sample, and trip blank samples were collected on April 17 and 18, 2018 and were analyzed for BTEX volatile organic compounds (VOCs) by SW-846 method 8260C, polynuclear aromatic hydrocarbon (PAH) semivolatile organic compounds (SVOCs) by SW-846 method 8270D, total cyanide by SW-846 method 9012B, free cyanide by

SW-846 method 9016, total dissolved solids (TDS) by Standard Methods SM2540C, and total suspended solids (TSS) by Standard Methods SM2540D. The data validation was performed based on the Standard Operating Procedure (SOP) HW-33 (Revision 3) *Low/Medium Volatile Data Validation* (March 2013), SOP HW-35 (Revision 2) *Semivolatile Data Validation* (March 2013), and SOP 2c (Revision 15), *SOP for the Evaluation of Cyanide for the Contract Laboratory Program* (December 2012), modified for the SW-846 methodologies utilized.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Duplicate Results
- Internal Standard Results
- Laboratory Control Sample (LCS) Results
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as received by the laboratory. A report revision, dated 05/30/2018, was submitted to include the reanalysis of TDS sample SW-04.

Holding Times and Sample Preservation

All preservative criteria were met.

In the initial analysis of sample SW-04, the dissolved solids were above the method recommended weight and the analysis was not completed with a second dried weight reading. Sample SW-04 was re-analyzed for total dissolved solids 22 days outside of hold time with a reduced sample volume. The reanalysis TDS result for sample SW-04 was reported and qualified as estimated (J), biased low, due to the hold time exceedance.

Initial and Continuing Calibrations

All initial and continuing calibration criteria were met.

Blanks

VOCs and SVOCs

Contamination was not detected in the associated method and instrument blank samples.
Contamination was not detected in the associated field and trip blank samples.

Surrogate Recoveries

All criteria were met for samples analyzed at dilutions less than ten.

MS/MSD Results

MS/MSD analyses were performed on sample MW-07 for VOCs and sample MW-16 for free cyanide. The following tables list the analyte recoveries outside of control limits and the resulting actions.

MW-16					
Analyte	MS (%)	MSD (%)	RPD (%)	QC Limits (%)	Validation Actions
Cyanide					
Free Cyanide	73	67	-	90-110	Estimate (J/UJ) the positive and nondetect results for free cyanide in all associated field samples; Low bias.
Associated samples: MW-13, MW-23, MW-14, MW-20, MW-21, MW-16, MW-17, MW-22, MW-12, MW-11A, SW-01, SW-02, SW-03, SW-04, SW-05, Duplicate					
- criterion met					

MW-07					
Analyte	MS (%)	MSD (%)	RPD (%)	QC Limits (%)	Validation Actions
VOC					
Ethylbenzene	21	16	-	77-123	Estimate (J) the positive result for ethylbenzene in sample MW-07; Low bias.
- criterion met					

Laboratory Duplicate Results

Project laboratory duplicates were not associated with this sample set. Validation actions were not taken on this basis.

Internal Standard Results

All criteria were met.

LCS Results

All criteria were met.

Field Duplicate Results

Samples MW-11A and Duplicate were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected analytes in the field duplicate pair, which were within the acceptance criteria.

Analyte	MW-11A (ug/L)	Duplicate (ug/L)	RPD (%)
Benzene	4.2	4.5	6.9
Acenaphthene	1.2	1.3	8.0
Acenaphthylene	0.37 J	0.47 J	23.8
Total Cyanide	0.23 mg/L	0.24 mg/L	4.3
Total dissolved solids	702 mg/L	NR	NR
Total suspended solids	32.4 mg/L	NR	NR
NR – Analysis not requested Criteria: When both results are $\geq 5x$ the RL, RPDs must be $< 30\%$. When results are $< 5x$ the RL, the absolute difference between the original and field duplicate must be $< RL$			

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed.

Sample	VOC Analysis Reported	SVOC Analysis Reported	Total Cyanide Analysis Reported
MW-14	NR	NR	A 2-fold dilution was performed.
MW-20	NR	NR	A 5-fold dilution was performed.
MW-21	NR	NR	A 2-fold dilution was performed.

APPENDIX B – Data Usability
Mineral Springs, Project 1801042-1.1

Sample	VOC Analysis Reported	SVOC Analysis Reported	Total Cyanide Analysis Reported
MW-07	A 20-fold dilution was performed due to high sample levels. All results were detected.	A 100-fold dilution was performed and the sample extraction amount was reduced (50 ml instead of 250) due to sample matrix. The RLs were elevated 500-fold.	NR
MW-22	NR	NR	A 2-fold dilution was performed.
MW-12	NR	NR	A 2-fold dilution was performed.
MW-17	A 4-fold dilution was performed due to sample foaming. RLs are elevated in this sample.	NR	NR
MW-11A	A 4-fold dilution was performed due to sample foaming. RLs are elevated in this sample.	NR	NR
MW-19	A 100-fold dilution was performed due to high sample levels. RLs are elevated in this sample.	A 250-fold dilution was performed due to high sample levels. RLs are elevated in this sample.	NR
MW-16	NR	NR	A 10-fold dilution was performed.

NR – Dilution was not required.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted. A comparison of total and free cyanide results was performed. All sample total cyanide results exceeded those of the free cyanide.

DATA VALIDATION QUALIFIERS

- U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified “J” data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The ‘J’ data may be biased high or low or the direction of the bias may be indeterminable.
- UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified “UJ” data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The ‘UJ’ data may be biased low.
- NJ - The analysis indicates the presence of a compound that has been “tentatively identified” (N) and the associated numerical value represents its approximate (J) concentration.
- R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-13

Lab Sample ID: 480-134358-1

Date Collected: 04/17/18 10:30

Matrix: Ground Water

Date Received: 04/17/18 15:35

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 03:48	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 03:48	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 03:48	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		04/26/18 03:48	1
4-Bromofluorobenzene (Surr)	102		73 - 120		04/26/18 03:48	1
Dibromofluoromethane (Surr)	101		75 - 123		04/26/18 03:48	1
Toluene-d8 (Surr)	101		80 - 120		04/26/18 03:48	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/18/18 14:24	04/20/18 08:06	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/18/18 14:24	04/20/18 08:06	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/18/18 14:24	04/20/18 08:06	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/18/18 14:24	04/20/18 08:06	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/18/18 14:24	04/20/18 08:06	1
Benzo(a)pyrene	0.50	U	0.50	0.33	ug/L		04/18/18 14:24	04/20/18 08:06	1
Benzo(b)fluoranthene	0.50	U	0.50	0.30	ug/L		04/18/18 14:24	04/20/18 08:06	1
Benzo(g,h,i)perylene	0.50	U	0.50	0.37	ug/L		04/18/18 14:24	04/20/18 08:06	1
Benzo(k)fluoranthene	0.50	U	0.50	0.085	ug/L		04/18/18 14:24	04/20/18 08:06	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/18/18 14:24	04/20/18 08:06	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/18/18 14:24	04/20/18 08:06	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/18/18 14:24	04/20/18 08:06	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/18/18 14:24	04/20/18 08:06	1
Indeno(1,2,3-cd)pyrene	0.50	U	0.50	0.44	ug/L		04/18/18 14:24	04/20/18 08:06	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/18/18 14:24	04/20/18 08:06	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/18/18 14:24	04/20/18 08:06	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/18/18 14:24	04/20/18 08:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		48 - 120	04/18/18 14:24	04/20/18 08:06	1
Nitrobenzene-d5	78		46 - 120	04/18/18 14:24	04/20/18 08:06	1
p-Terphenyl-d14	89		24 - 136	04/18/18 14:24	04/20/18 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.011		0.010	0.0050	mg/L		04/30/18 13:25	04/30/18 17:45	1
Cyanide, Free	5.0	U J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

TestAmerica Buffalo

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5/21/18

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-23

Date Collected: 04/17/18 09:40

Date Received: 04/17/18 15:35

Lab Sample ID: 480-134358-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 04:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 04:13	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 04:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 04:13	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		04/26/18 04:13	1
4-Bromofluorobenzene (Surr)	98		73 - 120		04/26/18 04:13	1
Dibromofluoromethane (Surr)	102		75 - 123		04/26/18 04:13	1
Toluene-d8 (Surr)	101		80 - 120		04/26/18 04:13	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/18/18 14:24	04/20/18 08:34	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/18/18 14:24	04/20/18 08:34	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/18/18 14:24	04/20/18 08:34	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/18/18 14:24	04/20/18 08:34	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/18/18 14:24	04/20/18 08:34	1
Benzo(a)pyrene	0.33	J	0.50	0.33	ug/L		04/18/18 14:24	04/20/18 08:34	1
Benzo(b)fluoranthene	0.53		0.50	0.30	ug/L		04/18/18 14:24	04/20/18 08:34	1
Benzo(g,h,i)perylene	0.38	J	0.50	0.37	ug/L		04/18/18 14:24	04/20/18 08:34	1
Benzo(k)fluoranthene	0.24	J	0.50	0.085	ug/L		04/18/18 14:24	04/20/18 08:34	1
Chrysene	0.33	J	0.50	0.32	ug/L		04/18/18 14:24	04/20/18 08:34	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/18/18 14:24	04/20/18 08:34	1
Fluoranthene	0.61		0.50	0.36	ug/L		04/18/18 14:24	04/20/18 08:34	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/18/18 14:24	04/20/18 08:34	1
Indeno(1,2,3-cd)pyrene	0.50	U	0.50	0.44	ug/L		04/18/18 14:24	04/20/18 08:34	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/18/18 14:24	04/20/18 08:34	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/18/18 14:24	04/20/18 08:34	1
Pyrene	0.48	J	0.50	0.36	ug/L		04/18/18 14:24	04/20/18 08:34	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		48 - 120	04/18/18 14:24	04/20/18 08:34	1
Nitrobenzene-d5	69		46 - 120	04/18/18 14:24	04/20/18 08:34	1
p-Terphenyl-d14	92		24 - 136	04/18/18 14:24	04/20/18 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.41		0.010	0.0050	mg/L		04/30/18 13:25	04/30/18 17:46	1
Cyanide, Free	5.0	U J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-14

Date Collected: 04/17/18 11:25

Date Received: 04/17/18 15:35

Lab Sample ID: 480-134358-3

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.52		0.020	0.010	mg/L		04/30/18 13:25	04/30/18 17:59	2
Cyanide, Free	5.0	UJ.	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-20

Date Collected: 04/17/18 12:30

Date Received: 04/17/18 15:35

Lab Sample ID: 480-134358-4

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.60		0.050	0.025	mg/L		04/30/18 13:25	04/30/18 18:01	5
Cyanide, Free	5.0	U J.	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-21

Date Collected: 04/17/18 14:15

Date Received: 04/17/18 15:35

Lab Sample ID: 480-134358-5

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.71		0.020	0.010	mg/L		04/30/18 13:25	04/30/18 18:02	2
Cyanide, Free	5.0	U J.	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-07

Date Collected: 04/17/18 13:35

Date Received: 04/17/18 15:35

Lab Sample ID: 480-134358-6

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	840		20	8.2	ug/L			04/26/18 04:39	20
Ethylbenzene	1800	F+ J	20	15	ug/L			04/26/18 04:39	20
Toluene	36		20	10	ug/L			04/26/18 04:39	20
Xylenes, Total	1100		40	13	ug/L			04/26/18 04:39	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					04/26/18 04:39	20
4-Bromofluorobenzene (Surr)	102		73 - 120					04/26/18 04:39	20
Dibromofluoromethane (Surr)	103		75 - 123					04/26/18 04:39	20
Toluene-d8 (Surr)	105		80 - 120					04/26/18 04:39	20

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	260		250	190	ug/L		04/18/18 14:24	04/20/18 09:03	100
Acenaphthene	150	J	250	150	ug/L		04/18/18 14:24	04/20/18 09:03	100
Acenaphthylene	250	U	250	170	ug/L		04/18/18 14:24	04/20/18 09:03	100
Anthracene	250	U	250	200	ug/L		04/18/18 14:24	04/20/18 09:03	100
Benzo(a)anthracene	250	U	250	200	ug/L		04/18/18 14:24	04/20/18 09:03	100
Benzo(a)pyrene	250	U	250	170	ug/L		04/18/18 14:24	04/20/18 09:03	100
Benzo(b)fluoranthene	250	U	250	150	ug/L		04/18/18 14:24	04/20/18 09:03	100
Benzo(g,h,i)perylene	250	U	250	190	ug/L		04/18/18 14:24	04/20/18 09:03	100
Benzo(k)fluoranthene	250	U	250	43	ug/L		04/18/18 14:24	04/20/18 09:03	100
Chrysene	250	U	250	160	ug/L		04/18/18 14:24	04/20/18 09:03	100
Dibenz(a,h)anthracene	250	U	250	170	ug/L		04/18/18 14:24	04/20/18 09:03	100
Fluoranthene	250	U	250	180	ug/L		04/18/18 14:24	04/20/18 09:03	100
Fluorene	250	U	250	190	ug/L		04/18/18 14:24	04/20/18 09:03	100
Indeno(1,2,3-cd)pyrene	250	U	250	220	ug/L		04/18/18 14:24	04/20/18 09:03	100
Naphthalene	3200		250	210	ug/L		04/18/18 14:24	04/20/18 09:03	100
Phenanthrene	250	U	250	190	ug/L		04/18/18 14:24	04/20/18 09:03	100
Pyrene	250	U	250	180	ug/L		04/18/18 14:24	04/20/18 09:03	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		48 - 120				04/18/18 14:24	04/20/18 09:03	100
Nitrobenzene-d5	76		46 - 120				04/18/18 14:24	04/20/18 09:03	100
p-Terphenyl-d14	83		24 - 136				04/18/18 14:24	04/20/18 09:03	100

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-10

Date Collected: 04/17/18 12:35

Date Received: 04/17/18 15:35

Lab Sample ID: 480-134358-7

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 05:04	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 05:04	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 05:04	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		04/26/18 05:04	1
4-Bromofluorobenzene (Surr)	100		73 - 120		04/26/18 05:04	1
Dibromofluoromethane (Surr)	104		75 - 123		04/26/18 05:04	1
Toluene-d8 (Surr)	103		80 - 120		04/26/18 05:04	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/18/18 14:24	04/20/18 09:32	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/18/18 14:24	04/20/18 09:32	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/18/18 14:24	04/20/18 09:32	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/18/18 14:24	04/20/18 09:32	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/18/18 14:24	04/20/18 09:32	1
Benzo(a)pyrene	0.65		0.50	0.33	ug/L		04/18/18 14:24	04/20/18 09:32	1
Benzo(b)fluoranthene	1.8		0.50	0.30	ug/L		04/18/18 14:24	04/20/18 09:32	1
Benzo(g,h,i)perylene	0.71		0.50	0.37	ug/L		04/18/18 14:24	04/20/18 09:32	1
Benzo(k)fluoranthene	0.51		0.50	0.085	ug/L		04/18/18 14:24	04/20/18 09:32	1
Chrysene	1.6		0.50	0.32	ug/L		04/18/18 14:24	04/20/18 09:32	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/18/18 14:24	04/20/18 09:32	1
Fluoranthene	4.0		0.50	0.36	ug/L		04/18/18 14:24	04/20/18 09:32	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/18/18 14:24	04/20/18 09:32	1
Indeno(1,2,3-cd)pyrene	0.64		0.50	0.44	ug/L		04/18/18 14:24	04/20/18 09:32	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/18/18 14:24	04/20/18 09:32	1
Phenanthrene	3.3		0.50	0.38	ug/L		04/18/18 14:24	04/20/18 09:32	1
Pyrene	2.0		0.50	0.36	ug/L		04/18/18 14:24	04/20/18 09:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		48 - 120	04/18/18 14:24	04/20/18 09:32	1
Nitrobenzene-d5	82		46 - 120	04/18/18 14:24	04/20/18 09:32	1
p-Terphenyl-d14	103		24 - 136	04/18/18 14:24	04/20/18 09:32	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: TB

Lab Sample ID: 480-134358-8

Date Collected: 04/17/18 00:00

Matrix: Water

Date Received: 04/17/18 15:35

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 05:29	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 05:29	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 05:29	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					04/26/18 05:29	1
4-Bromofluorobenzene (Surr)	102		73 - 120					04/26/18 05:29	1
Dibromofluoromethane (Surr)	103		75 - 123					04/26/18 05:29	1
Toluene-d8 (Surr)	103		80 - 120					04/26/18 05:29	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-16

Date Collected: 04/17/18 14:15

Date Received: 04/17/18 15:35

Lab Sample ID: 480-134358-9

Matrix: Ground Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.9		0.10	0.050	mg/L		04/30/18 13:25	04/30/18 18:03	10
Cyanide, Free	18.1	FF J.	5.0	1.5	ug/L		04/25/18 13:30	04/25/18 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-17

Date Collected: 04/18/18 13:25

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.0	U	4.0	1.6	ug/L			04/26/18 14:59	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			04/26/18 14:59	4
Toluene	4.0	U	4.0	2.0	ug/L			04/26/18 14:59	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			04/26/18 14:59	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					04/26/18 14:59	4
4-Bromofluorobenzene (Surr)	101		73 - 120					04/26/18 14:59	4
Dibromofluoromethane (Surr)	101		75 - 123					04/26/18 14:59	4
Toluene-d8 (Surr)	101		80 - 120					04/26/18 14:59	4

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.54	U	0.54	0.41	ug/L		04/20/18 08:09	04/21/18 23:22	1
Acenaphthene	0.54	U	0.54	0.33	ug/L		04/20/18 08:09	04/21/18 23:22	1
Acenaphthylene	0.54	U	0.54	0.37	ug/L		04/20/18 08:09	04/21/18 23:22	1
Anthracene	0.54	U	0.54	0.42	ug/L		04/20/18 08:09	04/21/18 23:22	1
Benzo(a)anthracene	0.54	U	0.54	0.43	ug/L		04/20/18 08:09	04/21/18 23:22	1
Benzo(a)pyrene	0.54	U	0.54	0.36	ug/L		04/20/18 08:09	04/21/18 23:22	1
Benzo(b)fluoranthene	0.54	U	0.54	0.33	ug/L		04/20/18 08:09	04/21/18 23:22	1
Benzo(g,h,i)perylene	0.54	U	0.54	0.40	ug/L		04/20/18 08:09	04/21/18 23:22	1
Benzo(k)fluoranthene	0.54	U	0.54	0.092	ug/L		04/20/18 08:09	04/21/18 23:22	1
Chrysene	0.54	U	0.54	0.35	ug/L		04/20/18 08:09	04/21/18 23:22	1
Dibenz(a,h)anthracene	0.54	U	0.54	0.36	ug/L		04/20/18 08:09	04/21/18 23:22	1
Fluoranthene	0.54	U	0.54	0.39	ug/L		04/20/18 08:09	04/21/18 23:22	1
Fluorene	0.54	U	0.54	0.40	ug/L		04/20/18 08:09	04/21/18 23:22	1
Indeno(1,2,3-cd)pyrene	0.54	U	0.54	0.48	ug/L		04/20/18 08:09	04/21/18 23:22	1
Naphthalene	0.54	U	0.54	0.46	ug/L		04/20/18 08:09	04/21/18 23:22	1
Phenanthrene	0.54	U	0.54	0.41	ug/L		04/20/18 08:09	04/21/18 23:22	1
Pyrene	0.54	U	0.54	0.39	ug/L		04/20/18 08:09	04/21/18 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120				04/20/18 08:09	04/21/18 23:22	1
Nitrobenzene-d5	84		46 - 120				04/20/18 08:09	04/21/18 23:22	1
p-Terphenyl-d14	85		24 - 136				04/20/18 08:09	04/21/18 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11		0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 20:45	1
Cyanide, Free	5.0	U J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-22

Date Collected: 04/18/18 09:15

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-2

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.44		0.020	0.010	mg/L		05/01/18 18:07	05/01/18 21:11	2
Cyanide, Free	5.0	UJ	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-12

Date Collected: 04/18/18 08:55

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-3

Matrix: Ground Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.81		0.020	0.010	mg/L		05/01/18 18:07	05/01/18 21:13	2
Cyanide, Free	3.1	J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-11A

Lab Sample ID: 480-134444-4

Date Collected: 04/18/18 10:40

Matrix: Ground Water

Date Received: 04/18/18 15:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.2		4.0	1.6	ug/L			04/26/18 15:24	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			04/26/18 15:24	4
Toluene	4.0	U	4.0	2.0	ug/L			04/26/18 15:24	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			04/26/18 15:24	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					04/26/18 15:24	4
4-Bromofluorobenzene (Surr)	100		73 - 120					04/26/18 15:24	4
Dibromofluoromethane (Surr)	99		75 - 123					04/26/18 15:24	4
Toluene-d8 (Surr)	101		80 - 120					04/26/18 15:24	4

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/21/18 23:51	1
Acenaphthene	1.2		0.50	0.30	ug/L		04/20/18 08:09	04/21/18 23:51	1
Acenaphthylene	0.37	J	0.50	0.34	ug/L		04/20/18 08:09	04/21/18 23:51	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/18 08:09	04/21/18 23:51	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/20/18 08:09	04/21/18 23:51	1
Benzo(a)pyrene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/21/18 23:51	1
Benzo(b)fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/18 08:09	04/21/18 23:51	1
Benzo(g,h,i)perylene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/21/18 23:51	1
Benzo(k)fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/18 08:09	04/21/18 23:51	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/18 08:09	04/21/18 23:51	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/21/18 23:51	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/18 08:09	04/21/18 23:51	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/21/18 23:51	1
Indeno(1,2,3-cd)pyrene	0.50	U	0.50	0.44	ug/L		04/20/18 08:09	04/21/18 23:51	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/18 08:09	04/21/18 23:51	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/21/18 23:51	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/18 08:09	04/21/18 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		48 - 120				04/20/18 08:09	04/21/18 23:51	1
Nitrobenzene-d5	83		46 - 120				04/20/18 08:09	04/21/18 23:51	1
p-Terphenyl-d14	79		24 - 136				04/20/18 08:09	04/21/18 23:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.23		0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 20:53	1
Cyanide, Free	5.0	U J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1
Total Dissolved Solids	702		10.0	4.0	mg/L			04/25/18 19:30	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	32.4		4.0	4.0	mg/L			04/23/18 16:00	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: MW-19

Date Collected: 04/18/18 10:35

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-5

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5400		100	41	ug/L			04/26/18 15:49	100
Ethylbenzene	600		100	74	ug/L			04/26/18 15:49	100
Toluene	100	U	100	51	ug/L			04/26/18 15:49	100
Xylenes, Total	200	U	200	66	ug/L			04/26/18 15:49	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/26/18 15:49	100
4-Bromofluorobenzene (Surr)	104		73 - 120					04/26/18 15:49	100
Dibromofluoromethane (Surr)	103		75 - 123					04/26/18 15:49	100
Toluene-d8 (Surr)	103		80 - 120					04/26/18 15:49	100

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	130	U	130	99	ug/L		04/20/18 08:09	04/22/18 00:19	250
Acenaphthene	130	U	130	78	ug/L		04/20/18 08:09	04/22/18 00:19	250
Acenaphthylene	130	U	130	89	ug/L		04/20/18 08:09	04/22/18 00:19	250
Anthracene	130	U	130	100	ug/L		04/20/18 08:09	04/22/18 00:19	250
Benzo(a)anthracene	130	U	130	100	ug/L		04/20/18 08:09	04/22/18 00:19	250
Benzo(a)pyrene	130	U	130	86	ug/L		04/20/18 08:09	04/22/18 00:19	250
Benzo(b)fluoranthene	130	U	130	78	ug/L		04/20/18 08:09	04/22/18 00:19	250
Benzo(g,h,i)perylene	130	U	130	96	ug/L		04/20/18 08:09	04/22/18 00:19	250
Benzo(k)fluoranthene	130	U	130	22	ug/L		04/20/18 08:09	04/22/18 00:19	250
Chrysene	130	U	130	83	ug/L		04/20/18 08:09	04/22/18 00:19	250
Dibenz(a,h)anthracene	130	U	130	86	ug/L		04/20/18 08:09	04/22/18 00:19	250
Fluoranthene	130	U	130	94	ug/L		04/20/18 08:09	04/22/18 00:19	250
Fluorene	130	U	130	96	ug/L		04/20/18 08:09	04/22/18 00:19	250
Indeno(1,2,3-cd)pyrene	130	U	130	110	ug/L		04/20/18 08:09	04/22/18 00:19	250
Naphthalene	4700		130	110	ug/L		04/20/18 08:09	04/22/18 00:19	250
Phenanthrene	130	U	130	99	ug/L		04/20/18 08:09	04/22/18 00:19	250
Pyrene	130	U	130	94	ug/L		04/20/18 08:09	04/22/18 00:19	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		48 - 120				04/20/18 08:09	04/22/18 00:19	250
Nitrobenzene-d5	107		46 - 120				04/20/18 08:09	04/22/18 00:19	250
p-Terphenyl-d14	70		24 - 136				04/20/18 08:09	04/22/18 00:19	250

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: SW-01

Date Collected: 04/18/18 14:15

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-6

Matrix: Surface Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 16:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 16:15	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 16:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					04/26/18 16:15	1
4-Bromofluorobenzene (Surr)	101		73 - 120					04/26/18 16:15	1
Dibromofluoromethane (Surr)	102		75 - 123					04/26/18 16:15	1
Toluene-d8 (Surr)	101		80 - 120					04/26/18 16:15	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 00:47	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/18 08:09	04/22/18 00:47	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/18 08:09	04/22/18 00:47	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/18 08:09	04/22/18 00:47	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/20/18 08:09	04/22/18 00:47	1
Benzo(a)pyrene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 00:47	1
Benzo(b)fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/18 08:09	04/22/18 00:47	1
Benzo(g,h,i)perylene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 00:47	1
Benzo(k)fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/18 08:09	04/22/18 00:47	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/18 08:09	04/22/18 00:47	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 00:47	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/18 08:09	04/22/18 00:47	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 00:47	1
Indeno(1,2,3-cd)pyrene	0.50	U	0.50	0.44	ug/L		04/20/18 08:09	04/22/18 00:47	1
Naphthalene	2.2		0.50	0.42	ug/L		04/20/18 08:09	04/22/18 00:47	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 00:47	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/18 08:09	04/22/18 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		48 - 120				04/20/18 08:09	04/22/18 00:47	1
Nitrobenzene-d5	89		46 - 120				04/20/18 08:09	04/22/18 00:47	1
p-Terphenyl-d14	87		24 - 136				04/20/18 08:09	04/22/18 00:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.063		0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 20:54	1
Cyanide, Free	5.1	J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1
Total Dissolved Solids	824		10.0	4.0	mg/L			04/25/18 19:30	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.0	U	4.0	4.0	mg/L			04/23/18 16:00	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: SW-02

Date Collected: 04/18/18 11:30

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-7

Matrix: Surface Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 16:40	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 16:40	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 16:40	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		04/26/18 16:40	1
4-Bromofluorobenzene (Surr)	100		73 - 120		04/26/18 16:40	1
Dibromofluoromethane (Surr)	106		75 - 123		04/26/18 16:40	1
Toluene-d8 (Surr)	101		80 - 120		04/26/18 16:40	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 01:15	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/18 08:09	04/22/18 01:15	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/18 08:09	04/22/18 01:15	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/18 08:09	04/22/18 01:15	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/20/18 08:09	04/22/18 01:15	1
Benzo(a)pyrene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 01:15	1
Benzo(b)fluoranthene	0.57		0.50	0.30	ug/L		04/20/18 08:09	04/22/18 01:15	1
Benzo(g,h,i)perylene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 01:15	1
Benzo(k)fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/18 08:09	04/22/18 01:15	1
Chrysene	0.50		0.50	0.32	ug/L		04/20/18 08:09	04/22/18 01:15	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 01:15	1
Fluoranthene	0.81		0.50	0.36	ug/L		04/20/18 08:09	04/22/18 01:15	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 01:15	1
Indeno(1,2,3-cd)pyrene	0.50	U	0.50	0.44	ug/L		04/20/18 08:09	04/22/18 01:15	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/18 08:09	04/22/18 01:15	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 01:15	1
Pyrene	0.58		0.50	0.36	ug/L		04/20/18 08:09	04/22/18 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		48 - 120	04/20/18 08:09	04/22/18 01:15	1
Nitrobenzene-d5	86		46 - 120	04/20/18 08:09	04/22/18 01:15	1
p-Terphenyl-d14	87		24 - 136	04/20/18 08:09	04/22/18 01:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.13		0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 20:55	1
Cyanide, Free	7.1	J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1
Total Dissolved Solids	366		10.0	4.0	mg/L			04/25/18 19:30	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	32.4		4.0	4.0	mg/L			04/23/18 16:00	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: SW-03

Lab Sample ID: 480-134444-8

Date Collected: 04/18/18 12:05

Matrix: Surface Water

Date Received: 04/18/18 15:40

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.24		0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 20:57	1
Cyanide, Free	16.6	J.	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1
Total Dissolved Solids	411		10.0	4.0	mg/L			04/25/18 19:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.4		4.0	4.0	mg/L			04/23/18 16:00	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: SW-04

Date Collected: 04/18/18 13:45

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-9

Matrix: Surface Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0095	J.	0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 20:58	1
Cyanide, Free	5.0	UJ.	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1
Total Dissolved Solids	2210	E J) do not report	10.0	4.0	mg/L			04/25/18 19:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	9.6		4.0	4.0	mg/L			04/24/18 20:02	1

General Chemistry - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1960	H J.	40.0	16.0	mg/L			05/17/18 18:21	1

TestAmerica Buffalo

Handwritten signature/initials

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: SW-05

Lab Sample ID: 480-134444-10

Date Collected: 04/18/18 13:05

Matrix: Surface Water

Date Received: 04/18/18 15:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		05/01/18 18:07	06/01/18 21:00	1
Cyanide, Free	5.0	U J.	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1
Total Dissolved Solids	863		10.0	4.0	mg/L			04/25/18 19:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	6.8		4.0	4.0	mg/L			04/24/18 20:02	1

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: Duplicate

Date Collected: 04/18/18 00:00

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-11

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.5		1.0	0.41	ug/L			04/27/18 04:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/27/18 04:59	1
Toluene	1.0	U	1.0	0.51	ug/L			04/27/18 04:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/27/18 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/27/18 04:59	1
4-Bromofluorobenzene (Surr)	100		73 - 120					04/27/18 04:59	1
Dibromofluoromethane (Surr)	105		75 - 123					04/27/18 04:59	1
Toluene-d8 (Surr)	102		80 - 120					04/27/18 04:59	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 14:35	1
Acenaphthene	1.3		0.50	0.30	ug/L		04/20/18 08:09	04/22/18 14:35	1
Acenaphthylene	0.47	J	0.50	0.34	ug/L		04/20/18 08:09	04/22/18 14:35	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/18 08:09	04/22/18 14:35	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/20/18 08:09	04/22/18 14:35	1
Benzo(a)pyrene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 14:35	1
Benzo(b)fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/18 08:09	04/22/18 14:35	1
Benzo(g,h,i)perylene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 14:35	1
Benzo(k)fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/18 08:09	04/22/18 14:35	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/18 08:09	04/22/18 14:35	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 14:35	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/18 08:09	04/22/18 14:35	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 14:35	1
Indeno(1,2,3-cd)pyrene	0.50	U	0.50	0.44	ug/L		04/20/18 08:09	04/22/18 14:35	1
Naphthalene	1.2		0.50	0.42	ug/L		04/20/18 08:09	04/22/18 14:35	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 14:35	1
Pyrene	0.36	J	0.50	0.36	ug/L		04/20/18 08:09	04/22/18 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		48 - 120				04/20/18 08:09	04/22/18 14:35	1
Nitrobenzene-d5	74		46 - 120				04/20/18 08:09	04/22/18 14:35	1
p-Terphenyl-d14	86		24 - 136				04/20/18 08:09	04/22/18 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.24		0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 21:01	1
Cyanide, Free	5.0	U J	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: EB

Date Collected: 04/18/18 11:00

Date Received: 04/18/18 15:40

Lab Sample ID: 480-134444-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 17:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 17:31	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 17:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		04/26/18 17:31	1
4-Bromofluorobenzene (Surr)	100		73 - 120		04/26/18 17:31	1
Dibromofluoromethane (Surr)	108		75 - 123		04/26/18 17:31	1
Toluene-d8 (Surr)	103		80 - 120		04/26/18 17:31	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 02:12	1
Acenaphthene	0.50	U	0.50	0.30	ug/L		04/20/18 08:09	04/22/18 02:12	1
Acenaphthylene	0.50	U	0.50	0.34	ug/L		04/20/18 08:09	04/22/18 02:12	1
Anthracene	0.50	U	0.50	0.39	ug/L		04/20/18 08:09	04/22/18 02:12	1
Benzo(a)anthracene	0.50	U	0.50	0.40	ug/L		04/20/18 08:09	04/22/18 02:12	1
Benzo(a)pyrene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 02:12	1
Benzo(b)fluoranthene	0.50	U	0.50	0.30	ug/L		04/20/18 08:09	04/22/18 02:12	1
Benzo(g,h,i)perylene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 02:12	1
Benzo(k)fluoranthene	0.50	U	0.50	0.085	ug/L		04/20/18 08:09	04/22/18 02:12	1
Chrysene	0.50	U	0.50	0.32	ug/L		04/20/18 08:09	04/22/18 02:12	1
Dibenz(a,h)anthracene	0.50	U	0.50	0.33	ug/L		04/20/18 08:09	04/22/18 02:12	1
Fluoranthene	0.50	U	0.50	0.36	ug/L		04/20/18 08:09	04/22/18 02:12	1
Fluorene	0.50	U	0.50	0.37	ug/L		04/20/18 08:09	04/22/18 02:12	1
Indeno(1,2,3-cd)pyrene	0.50	U	0.50	0.44	ug/L		04/20/18 08:09	04/22/18 02:12	1
Naphthalene	0.50	U	0.50	0.42	ug/L		04/20/18 08:09	04/22/18 02:12	1
Phenanthrene	0.50	U	0.50	0.38	ug/L		04/20/18 08:09	04/22/18 02:12	1
Pyrene	0.50	U	0.50	0.36	ug/L		04/20/18 08:09	04/22/18 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		48 - 120	04/20/18 08:09	04/22/18 02:12	1
Nitrobenzene-d5	86		46 - 120	04/20/18 08:09	04/22/18 02:12	1
p-Terphenyl-d14	101		24 - 136	04/20/18 08:09	04/22/18 02:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		05/01/18 18:07	05/01/18 21:03	1
Cyanide, Free	5.0	U	5.0	1.5	ug/L		04/25/18 11:45	04/25/18 15:30	1

TestAmerica Buffalo

Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Mineral Springs - Semi Annual

TestAmerica Job ID: 480-134358-1
SDG: 480-134358-1

Client Sample ID: TB

Lab Sample ID: 480-134444-14

Date Collected: 04/18/18 00:00

Matrix: Water

Date Received: 04/18/18 15:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/26/18 17:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/26/18 17:56	1
Toluene	1.0	U	1.0	0.51	ug/L			04/26/18 17:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/26/18 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					04/26/18 17:56	1
4-Bromofluorobenzene (Surr)	100		73 - 120					04/26/18 17:56	1
Dibromofluoromethane (Surr)	100		75 - 123					04/26/18 17:56	1
Toluene-d8 (Surr)	103		80 - 120					04/26/18 17:56	1

TestAmerica Buffalo

TestAmerica
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7951

Chain of Custody Record

252678

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-0210 (0713)

Regulatory Program: ☐ DW ☐ RCRA ☐ RCRA ☐ Other:

Client Contact		Project Manager: <u>Bud FRAPA</u>		Site Contact: <u>Mike Cummings</u>		Date: <u>4/18/18</u>		COC No. _____ of _____ COCs	
Company Name: <u>GEI Consultants</u>		Tel/Fax: <u>204-7156</u>		Lab Contact: <u>Steve Schaefer</u>		Carrier: <u>Hand Delivery</u>		Sampler: _____	
Address: <u>90 B John M. Drive</u>		City/State/Zip: <u>Amherst, NY 14228</u>		Phone: <u>716-204-7156</u>		Fax: _____		For Lab Use Only:	
Project Name: <u>MINERVA SPRINGS MGP</u>		Site: _____		PO # _____		Analysis Turnaround Time		Walk-in Client:	
						☐ CALIBRATION DAYS ☐ WORKING DAYS		Lab Sampling:	
						TAT if different from below		Job / SDG No.:	
						☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Sample Identification		Sample Date	Sample Time	Sample Type (C-Comp, G-Gas)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
MW-17	4/18/18	1325	G	W	7				TRIP BLANK
MW-22		915			2				analyzed for 8260 VOCs
MW-12		855			2				
MW-11A		1010			8				
MW-19		1035			5				
SW-01		1415			8				
SW-02		1130			8				
SW-03		1205			2				
SW-04		1245			2				
SW-05		1305			2				
DUP-1					7				
EB-1		1100			7				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <u>21.6</u> Cor'd: _____		Therm ID No. <u>11</u>			
Relinquished by: <u>not signed</u>		Company: <u>GEI</u>		Received by: <u>Mike Cummings</u>		Company: <u>TestAmerica</u>		Date/Time: <u>4/18/18 1540</u>	
Relinquished by:		Company:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Received in Laboratory by:		Company:		Date/Time:	

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2800 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



14 13 12 11 10 9 8 7 6 5 4 3 2 1

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5/6/2018

Ver: 09/20/2016

Page 1 of 1

Job #

480-134358-1

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - NaOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2OAS
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecylhydrate
U - Acetone
V - MCAA
W - pH 4.5
X - other (specify)

Other:

Carrier Tracking No(s):

480-41506.1

State of Origin:

New York

Accreditations Required (See note):

NELAP - New York

Lab P/N:

Schrove, John R

E-Mail:

john.schrove@testamericainc.com

Analysis Requested

Due Date Requested:

4/27/2018

TAT Requested (days):

PO #:

WO #:

Project #:

48008324

Site:

SSOWE

Sample Identification - Client ID (Lab ID)

MW-13 (480-134358-1)

MW-23 (480-134358-2)

MW-14 (480-134358-3)

MW-20 (480-134358-4)

MW-21 (480-134358-5)

Sample Date

4/17/18

Sample Time

10:30

Sample Type (C=Comp, G=Grab)

Water

Matrix (Inorganic, Organic, Other)

Water

Special Instructions/Note:

8018018 Prep Cytidine, Free

Total Number of Containers

1

Method of Shipment

Via FedEx

Received by:

CC

Date/Time:

4/20/18 0900

Company:

Adel

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Date:

4/19/18 1700

Company:

FA

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Received by:

Company

Date/Time:

Company

Cooler Temperature(s) °C and Other Remarks:

2.6°C IR11

Custody Seal No.:

009854

Custody Seals Intact:

Yes

No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)						
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 777 New Durham Road, City: Edison State, Zip: NJ, 08817 Phone: 732-549-3900(Tel) 732-549-3679(Fax) Email:	Sampler: Lab PM: Schove, John R E-Mail: John.schove@testamericainc.com Accreditations Required (See note): NELAP - New York	Carrier Tracking Note: Page: Page 1 of 2 Job #: 480-134444-1	GOG No: 480-41561.1			
Due Date Requested: 4/30/2018 TAT Requested (days):						
PO #:						
WO #:						
Project Name: GEI, Mineral Springs Site: AECOM, Mineral Springs						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (Inorganic, Specific Metals, Organic, ET-Tissue, Acid)	Field Filtered Sample (Yes or No)	Special Instructions/Note:
MW-17 (480-134444-1)	4/18/18	13:25 Eastern		Water	X	
MW-22 (480-134444-2)	4/18/18	09:15 Eastern		Water	X	
MW-12 (480-134444-3)	4/18/18	08:55 Eastern		Water	X	
MW-11A (480-134444-4)	4/18/18	10:40 Eastern		Water	X	
SW-01 (480-134444-6)	4/18/18	14:15 Eastern		Water	X	
SW-02 (480-134444-7)	4/18/18	11:30 Eastern		Water	X	
SW-03 (480-134444-8)	4/18/18	12:05 Eastern		Water	X	
SW-04 (480-134444-9)	4/18/18	13:45 Eastern		Water	X	
SW-05 (480-134444-10)	4/18/18	13:05 Eastern		Water	X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin issued above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Empty Kit Relinquished by:

Relinquished by: [Signature]
Date/Time: 4/19/18 17:00
Company: [Signature]

Relinquished by: [Signature]
Date/Time: 4/20/18 09:00
Company: TADA

Relinquished by: [Signature]
Date/Time: [Blank]
Company: [Blank]

Relinquished by: [Signature]
Date/Time: [Blank]
Company: [Blank]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

CS# 009854

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab) Client Contact: John R Schrove Shipping/Receiving: John Schrove Company: TestAmerica Laboratories, Inc. Address: 777 New Durham Road City: Edison State, Zip: NJ, 08817 Phone: 732-549-3900(Tel) 732-549-3679(Fax) Email: John.Schrove@testamerica.com		Sampler: Lab PM: Schrove, John R Phone: John Schrove E-Mail: John.Schrove@testamerica.com Accreditations Required (See note): NELAP - New York		Carrier Tracking No(s): 480-41561.2 Page 2 of 2 Job #: 480-134444-1		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hsane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dehydrate U - Acetone V - WCAA W - pH 4.5 Z - other (specify)											
Due Date Requested: 4/30/2018 TAT Requested (days): PO #: WO #: Project #: 48008324 SSOW#:		Sample Identification - Client ID (Lab ID) Duplicate (480-134444-1) EB (480-134444-12) MW-16 (480-134444-13)		Sample Date 4/18/18 4/18/18 4/17/18		Sample Time Eastern 11:00 Eastern 14:15 Eastern		Sample Type (C-Comp, G-grab) Water Water Water		Matrix (Inorganic, Organic, Composite, etc.) Water Water Water		Field Filtered Sample (Yes or No) (If Yes, Specify Filter) No No No		Total Number of Containers 1 1 1		Special Instructions/Notes:	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1																	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2																	
Empty Kit Relinquished by: Relinquished by: John R Schrove Date: 4/19/18 Relinquished by: John R Schrove Date: 4/19/18 Relinquished by: John R Schrove Date: 4/19/18																	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months																	
Special Instructions/QC Requirements:																	
Relinquished by: Relinquished by: John R Schrove Date: 4/20/18 Relinquished by: John R Schrove Date: 4/20/18 Relinquished by: John R Schrove Date: 4/20/18																	
Custody Seals Intact: Δ Yes Δ No																	
Cooler Temperature(s) °C and Other Remarks:																	

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact

Company Name: GEL Consultants
Address: 90 B. JOHN N. DR. DRIV
City/State/Zip: Amherst NY 14228
Phone: 716-204-7156
Fax:
Project Name: MINERAL SPRINGS MGP
Site:
P.O.#

Project Manager: Rick Frank
Tel/Fax: 716-204-7156

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS
TAT if different from Below
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

COC No. _____ of _____ COCs

Sampler: Mike Connors
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Site Contact: Mike Connors
Lab Contact: Sam Schaefer
Carrier: HAND DELIVERY

Date: _____

Perform MS / MSD (Y / N)

Filtered Sample (Y / N)

Sample Specific Notes:

480-134358 COC

Sample Identification

Sample Date

Sample Time

Sample Type (IC-Gra, G-Gra)

Matrix

of Cont.

MW-13

MW-23

MW-14

MW-20

MW-21

MW-7

MW-10

TRIP BLANK

MW-16

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Custody Seal No.:

Requisitioned by: Jerry Burke

Requisitioned by:

Requisitioned by:

Company: GEL Consultants

Company:

Company:

Company:

Date/Time: 4/17/18 15:55

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time: