WHITESTONE
ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
Celebrating 25 Years 1994 – 2019

MT. BETHEL CORPORATE CENTER
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PRIVILEGED & CONFIDENTIAL

SUMMARY REPORT OF FINDINGS

PHASE II SITE INVESTIGATION

MIXED-USE SITE
PROPOSED WAWA CONVENIENCE STORE & FUELING STATION
100 AND 108 EGG HARBOR ROAD &
203 AND 218 BLACKWOOD BARNSBORO ROAD
BLOCK 7, PORTION OF LOT 6.02; BLOCK 7.04, LOT 6;
& BLOCK 386.12, LOT 12
WASHINGTON & DEPTFORD TOWNSHIPS,
GLOUCESTER COUNTY, NEW JERSEY

Prepared for:

THE FERBER COMPANY, INC.
194 Mount Airy Road
Basking Ridge, New Jersey 07920

Prepared by:

WHITESTONE ASSOCIATES, INC.
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Whitestone Project #EJ1815811.000
April 2, 2019

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April 2, 2019

via email

THE FERBER COMPANY, INC.
194 Mount Airy Road
Basking Ridge, New Jersey 07920

Attention: Mr. Michael J, Murphy, Jr.
Vice President of Entitlements and Construction

Regarding: PHASE II SITE INVESTIGATION
MIXED-USE SITE
PROPOSED WAWA CONVENIENCE STORE & FUELING STATION
100 AND 108 EGG HARBOR ROAD &
203 AND 218 BLACKWOOD BARNSBORO ROAD
BLOCK 7, PORTION OF LOT 6.02; BLOCK 7.04, LOT 6;
& BLOCK 386.12, LOT 12
WASHINGTON & DEPTFORD TOWNSHIPS,
GLOUCESTER COUNTY, NEW JERSEY
WHITESTONE PROJECT NO.: EJ1815811.000

Dear Mr. Murphy:

Whitestone Associates, Inc. (Whitestone) conducted Phase II Site Investigation (SI) field activities at the above-referenced property between November 19, 2018 and December 5, 2018. Specifically, Whitestone's Phase II SI included a ground penetrating radar (GPR) survey and a subsurface soil vapor, soil and groundwater sampling and laboratory analyses program. The results of the Phase II SI are intended to supplement Whitestone's October 15, 2018 *Summary Reports of Findings - Phase I Environmental Site Assessment* (ESA) and associated Third Party Consultant (TPC) review prepared by APEX Companies, LLC (APEX) for the site. A summary of Whitestone's activities, findings, conclusions, and recommendations associated with these efforts is presented below.

1.0 PROJECT BACKGROUND

As presented in Whitestone's October 15, 2018 Phase I ESA, the following potential environmental concerns were identified at the site and targeted for further investigation:

- An adjoining site identified as Mullary's Texaco, Mullary's Fast Fuels, Inc. and Five Points Gas Station, located at 108 Delsea Drive approximately 113 feet topographically sidegradient from the subject property, is identified on the HIST LUST, SPILLS, HIST AUTO, SHWS, UST, and LUST databases. These database listings appear to be associated with historic auto service operations, registered underground storage tanks (USTs), and two contaminant releases. One release (Case No. 01-12-06-1331-44) of an unknown quantity of an unknown material that occurred on December 5, 2001 resulted in soil and groundwater contamination. An additional release (Case

No. 17-06-09-1233-23) of an unknown quantity of unknown material occurred at the site on May 30, 2017. Environmental impacts associated with this release were not specified in the database. This nearby site currently is occupied by an Exxon Mobile Station.

- A nearby site identified as 116 Delsea Drive, located at 116 Delsea Drive approximately 295 feet topographically sidegradient from the subject property, is identified on the VCP and NJ RELEASE databases. One release (Case No. 02-07-05-1119-23) of an unknown quantity of an unknown material that occurred on May 7, 2002 resulted in groundwater contamination. No further information regarding this incident was available in the database.

- A nearby site identified as Spotless Cleaners, Inc., located at 1898 Hurffville Road approximately 243 feet topographically sidegradient from the subject property, is identified on the HIST CLEANER database. This database listing is associated with drycleaning operations between at least 2000 and 2014.

- A nearby site identified as Former BP S/SC#00922 and 5 Points BP Service Station, located at 109 Delsea Drive topographically sidegradient from the subject property, is identified on the HIST LUST, INST CONTROL, NJEMS, and AIRS databases. A letter of No Further Action (NFA) was issued for the leaking UST (Case No. 89-11-14-1143) on June 6, 1992. Furthermore, a Classification Exception Area (CEA) for groundwater contamination from toluene and xylenes was established at this site on March 30, 2002. This CEA measures approximately 600 feet wide by 850 feet long by 85 feet deep and does not encroach on the subject property, however, contaminant migration associated with this CEA onto the subject property is possible. No other significant information regarding these database listings was available in the database. This nearby site currently is occupied by a Gas Stop.

- Historical sources reviewed by Whitestone indicated that a residential dwelling occupied the northern portion (Lot 12) of the subject property between at least 1940 and 1995 (or later). The former structure may have utilized an UST for on-site storage and consumption of heating oil. The site owner indicated that a cesspool and potable well were abandoned during demolition, however, no records regarding the heating system of the former structure were available for review. Accordingly, a remnant UST could remain on site.

- Historical sources reviewed by Whitestone revealed that the subject property, adjacent properties, and/or the general area surrounding the site were used for agricultural purposes dating back to at least 1931 to 1959 (or later). Topsoil/soil also historically has been stored in stockpiles on site. Such activities may have resulted in pesticide impacts to surficial and shallow subsurface soils. During initial site redevelopment, much of the surface topsoil on the site likely was removed to accommodate construction, however, residual topsoil could remain on site.

- Mixed-use properties such as the subject property typically have been filled with material imported from off-site sources during initial site development or subsequent redevelopment to achieve final grades. Backfilling also may have occurred from prior borrow pit operations. Such material may exhibit contamination exceeding applicable soil standards and may warrant regulated management during or following site redevelopment.

2.0 SCOPE OF WORK & LIMITATIONS

The primary goal of this study was to evaluate potential impacts to subsurface conditions at the subject property. Specifically, the Phase II SI included the following tasks:

- conducting a geophysical survey to evaluate the site for existing USTs, former UST removal excavations, and other subsurface structures of potential environmental concern, and to clear drilling locations prior to installation of monitor wells and borings;
- installing three groundwater monitor wells at the proposed UST field, fueling canopy, and Wawa food market to facilitate groundwater sampling analyses and evaluate hydraulic gradient and groundwater flow direction at the subject site;
- collecting six surficial soil samples at the site to facilitate soil screening and sample collection;
- installing one temporary soil vapor probe with Geoprobe drilling equipment to evaluate soil gas conditions in the vicinity of the proposed Wawa food market;
- logging and screening soil samples with a photoionization detector (PID) to identify the presence of volatile organic (VO) contamination;
- submitting soil samples for Target Compound List (TCL) volatile organics plus 15 additional peaks (VO+15), TCL semi-volatile/base neutral organics plus 15 additional peaks (SVO/BN+15), polychlorinated biphenyls (PCBs), extractable petroleum hydrocarbons (EPH)-Category 1, pesticides, herbicides, arsenic, lead, and/or Target Analyte List (TAL) metals analyses;
- submitting groundwater samples for TCL VO+15, TCL SVO/BN+15, and TAL metals analyses from the installed wells;
- submitting one soil gas sample for Toxic Organics (TO) analyses via United States Environmental Protection Agency (USEPA) Method TO-15;
- collecting global positioning system (GPS) locations of on-site environmental conditions and key development features with a Trimble Geo-XT hand-held unit; and
- further analyzing select soil samples via Synthetic Precipitation Leaching Procedure (SPLP) to evaluate a potential Site-Specific Impact to Groundwater (IGW) Soil Remediation Standard (SRS).

This Phase II SI was not intended to be an exhaustive evaluation of subsurface conditions at the subject property. This document is submitted for the sole use of The Ferber Company, Inc. and Wawa, Inc., their successors, representatives, and assigns, and should not be relied upon by any third party without Whitestone's written consent.

3.0 METHODOLOGY

3.1 Geophysical Survey

A grid was established across accessible portions of the subject site and surveyed using a cart-mounted GPR unit subcontracted from Delta Geophysics, Inc. (Delta). GPR uses high frequency electromagnetic waves to evaluate subsurface conditions. Energy is propagated downward into the subsurface and reflected back to the GPR unit from boundaries between materials with contrasting densities and other physical properties. A magnetic locator was used to verify the locations of subsurface utilities and other shallow metallic features (if present).

The effectiveness of the GPR equipment potentially may have been restricted due to interference from site structures, appurtenances, surface covers, and/or underlying conductive fill material. Subsurface anomalies or structures were not identified during the survey effort. Inaccessible areas and areas of limited or no effectiveness during the GPR survey are also shown on Figure 2.

3.2 Monitor Well Installation & Sampling

As part of the investigation, three groundwater monitor wells were installed at the subject site using hollow-stem auger (HSA) drilling equipment subcontracted from Hawk Drilling, Inc. (Hawk) on November 19, 2018 and November 20, 2018. The monitor wells were installed in areas of the proposed UST field, fueling canopy, and food market in an attempt to evaluate existing conditions as well as potential off-site sources of groundwater and soil vapor contamination. During installation activities, drill cuttings were screened with a PID to evaluate the potential presence of VO contamination during installation. Soil samples were collected at each monitor well location and submitted for laboratory analyses. The monitor wells were installed to depths of 40.0 feet below ground surface (fbgs) (MW01 and MW02) and 43.0 fbgs (MW03).

The monitor wells were constructed using two-inch diameter polyvinyl chloride (PVC) casing with 0.01-inch machine slotted PVC screen installed to span the water bearing zone. Two-inch diameter solid PVC riser was installed from the top of the screen interval to the ground surface. Filtration sand was used to fill the boreholes to approximately two feet above the top of the screen and bentonite pellets were used to fill the borehole to the ground surface. The groundwater monitor wells were completed at the surface with eight-inch diameter, flush-mount road boxes and locking well caps. Following installation, the wells were developed using a submersible pump. The monitor wells were installed and sampled to satisfy Wawa, Inc.'s criteria. The monitor wells were surveyed by a licensed surveyor, DPK Consulting, LLC (DPK), and subsequently gauged to obtain groundwater flow direction.

Monitor Well Id. No.	Depth Drilled (fbgs)	Elevation Above MSL (Top of PVC)	Screened Interval (fbgs)	Targeted Redevelopment Feature
MW01	40.0	122.28	20.0 – 40.0	Tank Field
MW02	40.0	123.43	20.0 – 40.0	Dispenser Canopy
MW03	43.0	123.76	23.0 – 43.0	Site Building

MSL - Mean Sea Level

3.3 Soil Boring Installation & Sampling

Soil borings were advanced utilizing hand-operated equipment on November 20, 2018. Samples were field screened to identify the potential presence of VO contamination. Soil samples were collected from the six-inch interval at the ground surface. Borings SB01 through SB06 were advanced throughout the subject property to assess potential impacts from former agricultural use. Investigation derived wastes were not generated. Soil sampling equipment was decontaminated between successive uses.

3.4 Soil Vapor Sampling

Geoprobe direct-push sampling equipment was utilized to install one temporary soil vapor probe to evaluate soil gas conditions in the vicinity of the proposed Wawa food market. The soil vapor probe was advanced deep enough to prevent the infiltration of ambient air, and above bedrock or the capillary fringe to prevent the infiltration of groundwater. Soil gas was extracted from the probe using a vacuum flow controller and dedicated tubing, and containerized in a clean SUMMA® canister.

3.5 Laboratory Analyses

Soil samples collected during the investigation were submitted to TestAmerica Laboratories, Inc. (TestAmerica) for VO+15, SVO/BN+15, PCBs, EPH-Category 1, pesticides, herbicides, arsenic, lead, and/or TAL metals analyses. Groundwater samples collected during the investigation were submitted to TestAmerica for VO+15, SVO/BN+15, and TAL metals analyses. The soil gas sample was submitted to TestAmerica and analyzed for TO via USEPA Method TO-15. Appropriate Quality Assurance/Quality Control (QA/QC) samples were collected during each sampling event and submitted for analyses in accordance with Wawa, Inc.'s corporate due diligence guidelines.

3.6 Remediation Standards

Contaminant concentrations exhibited within the soil samples were compared to NJDEP Residential and Non-Residential SRS, NJDEP Default Impact to Groundwater Soil Screening Levels (DIGWSSL), and/or NJDEP EPH Soil Remediation Criterion (SRC), as applicable. Contaminant concentrations exhibited within the groundwater samples were compared to NJDEP Groundwater Quality Standards (GWQS) and Vapor Intrusion Groundwater Screening Levels (VIGSL), as applicable. Contaminant concentrations exhibited within the soil gas sample were compared to NJDEP Vapor Intrusion Residential and Non-Residential Soil Gas Screening Levels (VISGSL).

3.7 Data Presentation

Soil boring and monitor well construction logs are provided in Attachment A. A summary of significant features and associated GPS coordinates are presented in Table 1A (*GPS Coordinate & Feature Location Summary*). Laboratory analytical reports comprise Attachment B and are summarized in Table 2 (*Soil Sampling & Analyses Data Summary*), Table 3 (*Groundwater Sampling & Analyses Data Summary*), Table 4 (*Soil Gas Sampling & Analyses Data Summary*), and Table 5 (*SPLP Sampling & Analyses Data Summary*). The *Site Location Map* and *Boring/GPR Location Plan* are included as Figures 1 and 2, respectively. Monitor well locations and apparent groundwater flow direction are depicted on Figure 3. The *Proposed Site Development Plan* is included as Figure 4 and the *Fill Isopleth Plan* is included as Figure 5. The geophysical investigation report comprises Attachment C.

4.0 SAMPLING & ANALYSES DATA SUMMARY

4.1 Sampling Strata

Three monitor well borings (MW01 through MW03) and six hand-collected borings (SB01 through SB06) were completed at the subject property during the Phase II SI to a maximum depth of 43.0 fbgs. Drilling and sampling information are summarized in Table 1B. Materials encountered during Whitestone's due diligence investigations included the following:

Surface Materials: Each of the monitor wells and soil borings encountered up to 16 inches of topsoil at the surface.

Fill Materials: Monitor well MW03, advanced in the northern portion of the site, encountered fill material extending to a depth of 5.5 fbgs. The fill material consisted of apparent non-native soil without debris.

Native Soils: Underlying surface cover and/or fill material, the monitor wells encountered residual soils generally consisting of sand with variable amounts of silt and gravel and silt with variable amounts of sand (monitor well MW03) to depths up to 43.0 fbgs.

Groundwater: During monitor well installation activities, groundwater was documented in the monitor wells at depths ranging between 31.09 feet below top of PVC casing (fbtoc) and 35.07 fbtoc. Following a two-week stabilization period, groundwater was measured in all on-site monitor wells at depths ranging between 30.08 fbtoc and 35.80 fbtoc during the sampling activities.

4.2 GPR Survey Results

During the GPR survey, subsurface anomalies consistent with water, gas, storm sewer, and electric utilities were detected at the subject property. No additional anomalies were identified. Due to site-specific soil conditions, the GPR unit was limited to approximately two feet to four feet of subsurface penetration. The GPR equipment was not effective or had limited or no accessibility within areas of miscellaneous staged equipment/materials and mulch stockpiles. Areas of GPR inaccessibility or ineffectiveness also are shown on Figure 2.

4.3 Soil Analyses Data Summary

The pesticide dieldrin was detected in soil sample 9999-23-SB06-SL01-11202018 at a concentration exceeding its NJDEP DIGWSSL. To further evaluate the Impact to Groundwater Pathway, SPLP dieldrin analyses was conducted on the soil sample. The subsequent SPLP results confirmed that dieldrin was not detected in the soil sample above the laboratory reporting limit (RL) or NJDEP Default Leachate Criterion. Therefore, the total dieldrin concentration analyzed for SPLP was determined to be the Sample-Specific Impact to Groundwater SRS for this sample location (0.0051 parts per million [ppm]).

VOs, SVO/BNs, PCBs, TAL metals, herbicides, arsenic, lead, and EPH were not detected at concentrations exceeding applicable NJDEP SRC, SRS, and/or DIGWSSL.

Analytical results comprise Attachment B and are summarized in Table 2 (*Soil Sampling & Analyses Data Summary* and Table 5 (*SPLP Sampling & Analyses Data Summary*).

4.4 Groundwater Analyses Data Summary

The metals aluminum, arsenic, beryllium, chromium, lead, mercury, nickel, iron, manganese, and/or sodium were detected in groundwater samples 9999-23-MW01-GW01-12052018, 9999-23-MW02-GW01-12052018, and 9999-23-MW03-GW01-12052018 at concentrations exceeding NJDEP GWQS. Based on the site history and depth to groundwater, these metal detections are the result of naturally-occurring levels.

VOs and SVO/BNs were not detected at concentrations exceeding NJDEP GWQS or VIGSL.

Analytical results comprise Attachment B and are summarized in Table 3 (*Groundwater Sampling & Analyses Data Summary*).

4.5 Soil Gas Analyses Data Summary

As part of field investigation activities, Whitestone installed one temporary soil vapor probe to evaluate soil gas conditions in the vicinity of the proposed Wawa site building. The soil vapor probe was installed to a depth of approximately five fbgs, and one soil gas sample was drawn from the soil vapor probe using a one-liter SUMMA® canister with a five-minute, pre-calibrated flow regulator. One soil gas sample (9999-23-VP01-SV01-11202018) was collected and submitted for TO-15 analyses.

Laboratory analyses of soil gas sample did not detect VOs at concentrations exceeding NJDEP Residential or Non-Residential VISGSL.

Analytical results comprise Attachment B and are summarized in Table 4 (*Soil Gas Sampling & Analyses Data Summary*).

4.6 Monitor Well Surveying

On December 21, 2018, Whitestone contracted DPK to obtain surface elevations at each monitor well location in an attempt to determine groundwater flow direction beneath the subject property. Monitor well locations and approximate groundwater flow direction based on surface elevation measured by DPK are presented on Figure 3. Groundwater elevations documented during the December 5, 2018 groundwater sampling event are as follows:

December 5, 2018 Gauging Data

Monitor Well Id. No.	Surface Elevation (Top of PVC/feet above msl)	Depth to Groundwater (fbtoc)	Groundwater Elevation (feet above msl)	Targeted Redevelopment Feature
MW01	122.38	35.80	86.48	Tank Field
MW02	123.43	30.08	93.35	Dispenser Canopy
MW03	123.76	33.24	90.52	Site Building

MSL - Mean Sea Level

5.0 CONCLUSIONS & RECOMMENDATIONS

The primary goal of this study was to evaluate potential impacts to subsurface conditions through the collection and analyses of soil, soil gas, and groundwater samples and completion of a GPR survey. Findings and recommendations are summarized as follows:

5.1 Conclusions

- During the GPR survey, subsurface anomalies consistent with water, gas, storm sewer, and electric utilities were detected at the subject property. No additional anomalies were identified. Due to site-specific soil conditions, the GPR unit was limited to approximately two feet to four feet of subsurface penetration. The GPR equipment was not effective or had limited or no accessibility within areas of miscellaneous staged equipment/materials and mulch stockpiles.

- During the Phase II SI, elevated PID readings and odors were not encountered in the soil borings. During the monitor well sampling event, PID readings were not encountered within the outer and inner casings of the monitor wells.

- Monitor well MW03, advanced in the northern portion of the site, encountered fill material extending to a depth of 5.5 fbgs. The fill material consisted of apparent non-native soil without debris.

- The pesticide dieldrin was detected in soil sample 9999-23-SB06-SL01-11202018 at a concentration exceeding its NJDEP DIGWSSL. To further evaluate the Impact to Groundwater Pathway, SPLP dieldrin analyses was conducted on the soil sample. The subsequent SPLP results confirmed that dieldrin was not detected in the soil sample above the laboratory RL or NJDEP Default Leachate Criterion. Therefore, the total dieldrin concentration analyzed for SPLP was determined to be the Sample-Specific Impact to Groundwater SRS for this sample location (0.0051 ppm).

- VOs, SVO/BNs, PCBs, TAL metals, herbicides, arsenic, lead, and EPH were not detected at concentrations exceeding applicable NJDEP SRC, SRS, and/or DIGWSSL.

- The metals aluminum, arsenic, beryllium, chromium, lead, mercury, nickel, iron, manganese, and/or sodium were detected in groundwater samples 9999-23-MW01-GW01-12052018, 9999-23-MW02-GW01-12052018, and 9999-23-MW03-GW01-12052018 at concentrations exceeding NJDEP GWQS. Based on the site history and depth to groundwater, these metal detections are the result of naturally-occurring levels.

- VOs and SVO/BNs were not detected at concentrations exceeding NJDEP GWQS or VIGSL.

- Laboratory analyses of soil gas samples did not detect VOs at concentrations exceeding NJDEP Residential or Non-Residential VISGSL.

- Groundwater beneath the investigated area appears to flow in a northwesterly direction. Moreover, groundwater was measured in monitor wells at depths ranging from 30.08 fbtoc and 35.80 fbtoc during the sampling activities.

5.2 Recommendations

- In the event that soil excavated or encountered during future site redevelopment activities exhibits evidence of contamination or is confirmed to be contaminated, the soil should be segregated, characterized, and managed off site in accordance with applicable state and federal waste management regulations unless contaminant concentrations allow such material to remain on site. Subsurface impacts (if encountered) should be reported and addressed (as required) by state regulations.

- The findings discussed above are intended to supplement Whitestone's October 15, 2018 Phase I ESA and associated TPC review prepared by APEX for the site. During this investigation, Whitestone considered all areas of concern previously identified for the subject property. Based on Whitestone's findings, all areas of concern have been investigated at the subject property and all features associated with the proposed Wawa food market and fuel station have been evaluated in general accordance with Wawa, Inc.'s corporate due diligence guidelines.

Please do not hesitate to contact us at (908) 668-7777 with any questions regarding this report.

Sincerely,

WHITESTONE ASSOCIATES, INC.

Christopher Seib, LSRP
Principal, Environmental Services

Anthony Raposo, EIT
Environmental Specialist

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TABLE 1A
GPS Coordinate &
Feature Location Summary

TABLE 1A
GPS COORDINATE & FEATURE LOCATION SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

FACILITY NAME	LOCATION ID	LOCATION TYPE	LATITUDE	LONGITUDE	ELEVATION
9999-23	MW01	MW	39.7831452	75.1009215	122.28
9999-23	MW02	MW	39.7831493	75.1006333	123.43
9999-23	MW03	MW	39.7835779	75.1005729	123.76
9999-23	SB01	SB	39.7837932	75.1004122	NS
9999-23	SB02	SB	39.7834966	75.1009103	NS
9999-23	SB03	SB	39.7834760	75.1006361	NS
9999-23	SB04	SB	39.7833930	75.1002333	NS
9999-23	SB05	SB	39.7831858	75.1010108	NS
9999-23	SB06	SB	39.7831106	75.1006970	NS
9999-23	VP01	SVP	39.7835237	75.1004337	NS

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TABLE 1B
Soil Boring Installation & Sampling Summary

TABLE 1B
SOIL BORING INSTALLATION & SAMPLING SUMMARY
Mixed-Use Site
104 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

Boring Number	Soil Sample Interval (fbtoc)	Total Depth (fbtoc)	Depth to Groundwater (fbtoc)	Maximum PID Reading (ppm)
MW01	23.5 to 24.0	40.0	33.1	0.0
MW02	29.5 to 30.0	40.0	31.9	0.0
MW03	5.0 to 5.5 (SL02)	43.0	32.4	0.0
	34.5 to 35.0 (SL01)			
SB01	0.0 to 0.5	0.5	NE	0.0
SB02	0.0 to 0.5	0.5	NE	0.0
SB03	0.0 to 0.5	0.5	NE	0.0
SB04	0.0 to 0.5	0.5	NE	0.0
SB05	0.0 to 0.5	0.5	NE	0.0
SB06	0.0 to 0.5	0.5	NE	0.0
VP01	5.0	5.0	NE	0.0

Notes:

fbtoc feet below top of casing
NE Not Encountered
PID Photoionization Detector
ppm parts per million

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TABLE 2
Soil Sampling & Analyses Data Summary

TABLE 2
SOIL SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

			CLIENT ID:	9999-23-MW01-SL01-11192018			9999-23-MW02-SL01-11192018			9999-23-MW03-SL01-11202018			9999-23-MW03-SL02-11202018			9999-23-SB01-SL01-11202018			9999-23-SB02-SL01-11202018			9999-23-SB03-SL01-11202018			9999-23-SB04-SL01-11202018			9999-23-SB05-SL01-11202018			9999-23-SB06-SL01-11202018		
WHITESTONE ASSOCIATES, INC.			LAB ID:	460-169720-1			460-169720-2			460-169720-3			460-169720-4			460-169720-5			460-169720-6			460-169720-7			460-169720-8			460-169720-9			460-169720-10		
			COLLECTION DATE:	11/19/2018			11/19/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018		
			SAMPLE DEPTH:	23.5 to 24.0			29.5 to 30.0			34.5 to 35.0			5.0 to 5.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5		
			SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**RSRS**	**NRSRS**	**IGWSSL**	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
VOLATILE ORGANICS (VO)																																	
Total VO TICs	NA	NA	NA	ND			ND			0.0061	J		ND			~		~	~		~	~		~	~		~	~		~	~		~
1,1,1-Trichloroethane	160,000	NA	0.3	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,1,2,2-Tetrachloroethane	1	3	0.007	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,1,2-Trichloroethane	2	6	0.02	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,1-Dichloroethane	8	24	0.2	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,1-Dichloroethene	11	150	0.008	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,2,3-Trichlorobenzene	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,2,4-Trichlorobenzene	73	820	0.7	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,2-Dibromo-3-Chloropropane	0.08	0.2	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,2-Dibromoethane	0.008	0.04	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,2-Dichlorobenzene	5,300	59,000	17	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,2-Dichloroethane	0.9	3	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,2-Dichloropropane	2	5	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,3-Dichlorobenzene	5,300	59,000	19	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,4-Dichlorobenzene	5	13	2	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
1,4-Dioxane	NA	NA	NA	ND		0.024	ND		0.024	ND		0.020	ND		0.022	~		~	~		~	~		~	~		~	~		~	~		~
2-Butanone (MEK)	3,100	44,000	0.9	ND		0.0059	0.0021	J	0.0061	0.0039	J B	0.0050	0.0079	B	0.0055	~		~	~		~	~		~	~		~	~		~	~		~
2-Hexanone	NA	NA	NA	ND		0.0059	ND		0.0061	ND		0.0050	ND		0.0055	~		~	~		~	~		~	~		~	~		~	~		~
4-Methyl-2-pentanone (MIBK)	NA	NA	NA	ND		0.0059	ND		0.0061	ND		0.0050	ND		0.0055	~		~	~		~	~		~	~		~	~		~	~		~
Acetone	70,000	NA	19	ND		0.0059	0.0057	J	0.0061	0.019		0.0050	0.046		0.0055	~		~	~		~	~		~	~		~	~		~	~		~
Benzene	2	5	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Bromochloromethane	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Bromodichloromethane	1	3	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Bromoform	81	280	0.03	ND	*	0.0012	ND	*	0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Bromomethane	25	59	0.04	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Carbon disulfide	7,800	110,000	6	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Carbon tetrachloride	2	4	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Chlorobenzene	510	7,400	0.6	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Chloroethane	220	1,100	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Chloroform	0.6	2	0.4	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Chloromethane	4	12	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
cis-1,2-Dichloroethene	230	560	0.3	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
cis-1,3-Dichloropropene	NA	NA	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Cyclohexane	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Dibromochloromethane	3	8	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Dichlorodifluoromethane	490	230,000	39	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Ethylbenzene	7,800	110,000	13	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Isopropylbenzene	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Methyl acetate	78,000	NA	22	ND		0.0059	ND		0.0061	ND		0.0050	ND		0.0055	~		~	~		~	~		~	~		~	~		~	~		~
Methyl tert-butyl ether	110	320	0.2	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Methylcyclohexane	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Methylene Chloride	46	230	0.01	ND		0.0012	ND		0.0012	ND		0.0010	0.00090	J	0.0011	~		~	~		~	~		~	~		~	~		~	~		~
m-Xylene & p-Xylene	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
o-Xylene	NA	NA	NA	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Styrene	90	260	3	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Tetrachloroethene	43	1,500	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Toluene	6,300	91,000	7	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
trans-1,2-Dichloroethene	300	720	0.6	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
trans-1,3-Dichloropropene	NA	NA	0.005	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Trichloroethene	3	10	0.01	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Trichlorofluoromethane	23,000	340,000	34	ND		0.0012	ND		0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
Vinyl chloride	0.7	2	0.005	ND	*	0.0012	ND	*	0.0012	ND		0.0010	ND		0.0011	~		~	~		~	~		~	~		~	~		~	~		~
BASE NEUTRAL ORGANICS/SEMI-VOLATILE ORGANICS (BN/SVO)																																	
Total BN TICs	NA	NA	NA	ND			ND			ND			1.77	J		~		~	~		~	~		~	~		~	~		~	~		~
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2,2'-oxybis[1-chloropropane]	NA	NA	5	ND	F1 F2 *	0.35	ND	*	0.35	ND	*	0.36	ND	*	0.36	~		~	~		~	~		~	~		~	~		~	~		~
2,3,4,6-Tetrachlorophenol	NA	NA	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2,4,5-Trichlorophenol	6,100	68,000	68	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2,4,6-Trichlorophenol	19	74	0.2	ND		0.14	ND		0.14	ND		0.14	ND		0.14	~		~	~		~	~		~	~		~	~		~	~		~
2,4-Dichlorophenol	180	2,100	0.2	ND	F1	0.14	ND		0.14	ND		0.14	ND		0.14	~		~	~		~	~		~	~		~	~		~	~		~
2,4-Dimethylphenol	1,200	14,000	1	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2,4-Dinitrophenol	120	1,400	0.3	ND		0.28	ND		0.28	ND		0.29	ND		0.29	~		~	~		~	~		~	~		~	~		~	~		~
2,4-Dinitrotoluene	0.7	3	NA	ND	F1	0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
2,6-Dinitrotoluene	0.7	3	NA	ND	F1	0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
2-Chloronaphthalene	NA	NA	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2-Chlorophenol	310	2,200	0.8	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2-Methylnaphthalene	230	2,400	8	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2-Methylphenol	310	3,400	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2-Nitroaniline	39	23,000	NA	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
2-Nitrophenol	NA	NA	NA	ND	F2 F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
3,3'-Dichlorobenzidine	1	4	0.2	ND	F1 *	0.14	ND	*	0.14	ND	*	0.14	ND	*	0.14	~		~	~		~	~		~	~		~	~		~	~		~
3-Nitroaniline	NA	NA	NA	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
4,6-Dinitro-2-methylphenol	6	68	0.3	ND		0.28	ND		0.28	ND		0.29	ND		0.29	~		~	~		~	~		~	~		~	~		~	~		~
4-Bromophenyl phenyl ether	NA	NA	NA	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
4-Chloro-3-methylphenol	NA	NA	NA	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
4-Chloroaniline	NA	NA	NA	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~

TABLE 2
SOIL SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

WHITESTONE ASSOCIATES, INC.

			CLIENT ID:	9999-23-MW01-SL01-11192018			9999-23-MW02-SL01-11192018			9999-23-MW03-SL01-11202018			9999-23-MW03-SL02-11202018			9999-23-SB01-SL01-11202018			9999-23-SB02-SL01-11202018			9999-23-SB03-SL01-11202018			9999-23-SB04-SL01-11202018			9999-23-SB05-SL01-11202018			9999-23-SB06-SL01-11202018		
			LAB ID:	460-169720-1			460-169720-2			460-169720-3			460-169720-4			460-169720-5			460-169720-6			460-169720-7			460-169720-8			460-169720-9			460-169720-10		
			COLLECTION DATE:	11/19/2018			11/19/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018		
			SAMPLE DEPTH:	23.5 to 24.0			29.5 to 30.0			34.5 to 35.0			5.0 to 5.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5		
			SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**RSRS**	**NRSRS**	**IGWSSL**	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
4-Chlorophenyl phenyl ether	NA	NA	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
4-Methylphenol	31	340	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
4-Nitroaniline	NA	NA	NA	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
4-Nitrophenol	NA	NA	NA	ND		0.70	ND		0.71	ND		0.72	ND		0.73	~		~	~		~	~		~	~		~	~		~	~		~
Acenaphthene	3,400	37,000	110	ND	F1 *	0.35	ND	*	0.35	ND	*	0.36	ND	*	0.36	~		~	~		~	~		~	~		~	~		~	~		~
Acenaphthylene	NA	300,000	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Acetophenone	2	5	3	ND	F1 F2	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Anthracene	17,000	30,000	2,400	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Atrazine	210	2,400	0.2	ND		0.14	ND		0.14	ND		0.14	ND		0.14	~		~	~		~	~		~	~		~	~		~	~		~
Benzaldehyde	6,100	68,000	NA	ND	F2	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Benzo[a]anthracene	5	17	0.8	ND		0.035	ND		0.035	ND		0.036	0.026	J	0.036	~		~	~		~	~		~	~		~	~		~	~		~
Benzo[a]pyrene	0.5	2	0.2	ND		0.035	ND		0.035	ND		0.036	0.026	J	0.036	~		~	~		~	~		~	~		~	~		~	~		~
Benzo[b]fluoranthene	5	17	2	ND		0.035	ND		0.035	ND		0.036	0.034	J	0.036	~		~	~		~	~		~	~		~	~		~	~		~
Benzo[g,h,i]perylene	380,000	30,000	NA	ND	F1	0.35	ND		0.35	ND		0.36	0.021	J	0.36	~		~	~		~	~		~	~		~	~		~	~		~
Benzo[k]fluoranthene	45	170	25	ND		0.035	ND		0.035	ND		0.036	0.013	J	0.036	~		~	~		~	~		~	~		~	~		~	~		~
Bis(2-chloroethoxy)methane	NA	NA	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Bis(2-chloroethyl)ether	0.4	2	0.2	ND	F2 F1	0.035	ND		0.035	ND		0.036	ND		0.036	~		~	~		~	~		~	~		~	~		~	~		~
Bis(2-ethylhexyl) phthalate	35	140	1,200	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Butyl benzyl phthalate	1,200	14,000	230	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Caprolactam	31,000	340,000	12	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Carbazole	24	96	NA	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Chrysene	450	1,700	80	ND		0.35	ND		0.35	ND		0.36	0.040	J	0.36	~		~	~		~	~		~	~		~	~		~	~		~
Dibenz(a,h)anthracene	0.5	2	0.8	ND	F1	0.035	ND		0.035	ND		0.036	ND		0.036	~		~	~		~	~		~	~		~	~		~	~		~
Dibenzofuran	NA	NA	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Diethyl phthalate	49,000	550,000	88	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Dimethyl phthalate	NA	NA	NA	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Di-n-butyl phthalate	6,100	68,000	760	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Di-n-octyl phthalate	2,400	27,000	3,300	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Diphenyl	61	240	140	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Fluoranthene	2,300	24,000	1,300	ND		0.35	ND		0.35	ND		0.36	0.042	J	0.36	~		~	~		~	~		~	~		~	~		~	~		~
Fluorene	2,300	24,000	170	ND	F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Hexachlorobenzene	0.3	1	0.2	ND		0.035	ND		0.035	ND		0.036	ND		0.036	~		~	~		~	~		~	~		~	~		~	~		~
Hexachlorobutadiene	6	25	0.9	ND	F1 F2	0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
Hexachlorocyclopentadiene	45	110	320	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Hexachloroethane	12	48	0.2	ND	F1 F2	0.035	ND		0.035	ND		0.036	ND		0.036	~		~	~		~	~		~	~		~	~		~	~		~
Indeno[1,2,3-cd]pyrene	5	17	7	ND		0.035	ND		0.035	ND		0.036	0.019	J	0.036	~		~	~		~	~		~	~		~	~		~	~		~
Isophorone	510	2,000	0.2	ND	F1	0.14	ND		0.14	ND		0.14	ND		0.14	~		~	~		~	~		~	~		~	~		~	~		~
Naphthalene	6	17	25	0.035	J F1	0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Nitrobenzene	5	14	0.2	ND	F1 F2	0.035	ND		0.035	ND		0.036	ND		0.036	~		~	~		~	~		~	~		~	~		~	~		~
N-Nitrosodi-n-propylamine	0.2	0.3	0.2	ND	F1	0.035	ND		0.035	ND		0.036	ND		0.036	~		~	~		~	~		~	~		~	~		~	~		~
N-Nitrosodiphenylamine	99	390	0.4	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Pentachlorophenol	0.9	3	0.3	ND		0.28	ND		0.28	ND		0.29	ND		0.29	~		~	~		~	~		~	~		~	~		~	~		~
Phenanthrene	NA	300,000	NA	ND	F1	0.35	ND		0.35	ND		0.36	0.039	J	0.36	~		~	~		~	~		~	~		~	~		~	~		~
Phenol	18,000	210,000	8	ND		0.35	ND		0.35	ND		0.36	ND		0.36	~		~	~		~	~		~	~		~	~		~	~		~
Pyrene	1,700	18,000	840	ND		0.35	ND		0.35	ND		0.36	0.063	J	0.36	~		~	~		~	~		~	~		~	~		~	~		~
METALS																																	
Aluminum	78,000	NA	NA	1,950		33.4	2,550		34.9	3,830		32.7	8,140		35.4	~		~	~		~	~		~	~		~	~		~	~		~
Antimony	31	450	6	ND		3.3	ND		3.5	ND		3.3	ND		3.5	~		~	~		~	~		~	~		~	~		~	~		~
Arsenic	19	19	19	2.7		2.5	0.88	J	2.6	1.1	J	2.5	3.2		2.7	7.3		2.8	2.9	J	3.0	6.1		4.0	9.3		2.6	3.9		2.8	5.4		3.0
Barium	16,000	59,000	2,100	3.4	J	33.4	4.6	J	34.9	12.2	J	32.7	16.9	J	35.4	~		~	~		~	~		~	~		~	~		~	~		~
Beryllium	16	140	0.70	0.14	J	0.33	0.17	J	0.35	0.24	J	0.33	0.40		0.35	~		~	~		~	~		~	~		~	~		~	~		~
Cadmium	78	78	2	ND		0.67	ND		0.70	ND		0.65	ND		0.71	~		~	~		~	~		~	~		~	~		~	~		~
Calcium	NA	NA	NA	ND		834	79.9	J	871	56.5	J	817	336	J	886	~		~	~		~	~		~	~		~	~		~	~		~
Chromium	NA	NA	NA	8.1		1.7	7.1		1.7	58		1.6	27.3		1.8	~		~	~		~	~		~	~		~	~		~	~		~
Cobalt	1,600	590	90	ND		8.3	ND		8.7	1.7	J	8.2	1.6	J	8.9	~		~	~		~	~		~	~		~	~		~	~		~
Copper	3,100	45,000	11,000	ND		4.2	ND		4.4	3.2	J	4.1	5.6		4.4	~		~	~		~	~		~	~		~	~		~	~		~
Iron	NA	NA	NA	5,160		25.0	4,730		26.1	8,500		24.5	18,500		26.6	~		~	~		~	~		~	~		~	~		~	~		~
Lead	400	800	90	1.9		1.7	1.6	J	1.7	2.6		1.6	8.5		1.8	25.6		1.9	73.0		2.0	43.0		2.7	6.8		1.8	69.7		1.9	48.2		2.0
Magnesium	NA	NA	NA	ND		834	84.2	J	871	68.5	J	817	353	J	886	~		~	~		~	~		~	~		~	~		~	~		~
Manganese	11,000	5,900	NA	9.7		2.5	6.5		2.6	20.3		2.5	29.4		2.7	~		~	~		~	~		~	~		~	~		~	~		~
Mercury	23	65	0.1	ND		0.016	ND		0.017	ND		0.018	0.010	J	0.017	~		~	~		~	~		~	~		~	~		~	~		~
Nickel	1,600	23,000	48	1.4	J	6.7	1.9	J	7.0	4.5	J	6.5	5.4	J	7.1	~		~	~		~	~		~	~		~	~		~	~		~
Potassium	NA	NA	NA	88.4	J	834	216	J	871	173	J	817	599	J	886	~		~	~		~	~		~	~		~	~		~	~		~
Selenium	390	5,700	11	ND		3.3	ND		3.5	ND		3.3	ND		3.5	~		~	~		~	~		~	~		~	~		~	~		~
Silver	390	5,700	NA	ND		1.7	ND		1.7	ND		1.6	ND		1.8	~		~	~		~	~		~	~		~	~		~	~		~
Sodium	NA	NA	NA	ND		834	ND		871	ND		817	ND		886	~		~	~		~	~		~	~		~	~		~	~		~
Thallium	NA	NA	3	ND		3.3	ND		3.5	ND		3.3	ND		3.5	~		~	~		~	~		~	~		~	~		~	~		~
Vanadium	78	1,100	NA	6.3	J	8.3	5.2	J	8.7	8.3		8.2	20.3		8.9	~		~	~		~	~		~	~		~	~		~	~		~
Zinc	23,000	110,000	NA	ND		5.0	4.1	J	5.2	7.5		4.9	16.0		5.3	~		~	~		~	~		~	~		~	~		~	~		~
POLYCHOLORINATED BIPHENYLS (PCB)																																	
Total PCBs	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1016	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1221	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1232	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1242	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1248	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1254	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1260	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1262	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~
PCB-1268	0.2	1	0.2	ND		0.070	ND		0.071	ND		0.072	ND		0.073	~		~	~		~	~		~	~		~	~		~	~		~

TABLE 2
SOIL SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

			CLIENT ID:	9999-23-MW01-SL01-11192018			9999-23-MW02-SL01-11192018			9999-23-MW03-SL01-11202018			9999-23-MW03-SL02-11202018			9999-23-SB01-SL01-11202018			9999-23-SB02-SL01-11202018			9999-23-SB03-SL01-11202018			9999-23-SB04-SL01-11202018			9999-23-SB05-SL01-11202018			9999-23-SB06-SL01-11202018		
WHITESTONE ASSOCIATES, INC.			LAB ID:	460-169720-1			460-169720-2			460-169720-3			460-169720-4			460-169720-5			460-169720-6			460-169720-7			460-169720-8			460-169720-9			460-169720-10		
			COLLECTION DATE:	11/19/2018			11/19/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018			11/20/2018		
			SAMPLE DEPTH:	23.5 to 24.0			29.5 to 30.0			34.5 to 35.0			5.0 to 5.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5			0.0 to 0.5		
			SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	**RSRS**	**NRSRS**	**IGWSSL**	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
PESTICIDES																																	
4,4'-DDD	3	13	4	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
4,4'-DDE	2	9	18	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	0.0080	J	0.0083
4,4'-DDT	2	8	11	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	0.0032	J	0.0079	ND		0.0083
Aldrin	0.04	0.2	0.2	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
alpha-BHC	0.1	0.5	0.002	~		~	~		~	~		~	~		~	ND		0.0025	ND		0.0025	ND		0.0035	ND		0.0022	ND		0.0024	ND		0.0025
beta-BHC	0.4	2	0.002	~		~	~		~	~		~	~		~	ND		0.0025	ND		0.0025	ND		0.0035	ND		0.0022	ND		0.0024	ND		0.0025
Chlordane (technical)	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.083	ND		0.083	ND		0.12	ND		0.073	ND		0.079	ND		0.083
delta-BHC	NA	NA	NA	~		~	~		~	~		~	~		~	ND	*	0.0025	ND	*	0.0025	ND	*	0.0035	ND	*	0.0022	ND	*	0.0024	ND	*	0.0025
Dieldrin	0.04	0.2	0.003 (0.0051)	~		~	~		~	~		~	~		~	ND		0.0025	ND		0.0025	ND		0.0035	ND		0.0022	ND		0.0024	0.0051		0.0025
Endosulfan I	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
Endosulfan II	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
Endosulfan sulfate	470	6800	2	~		~	~		~	~		~	~		~	ND	*	0.0083	ND	*	0.0083	ND	*	0.012	ND	*	0.0073	ND	*	0.0079	ND	*	0.0083
Endrin	23	340	1	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
Endrin aldehyde	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
Endrin ketone	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
gamma-BHC (Lindane)	0.4	2	0.002	~		~	~		~	~		~	~		~	ND		0.0025	ND		0.0025	ND		0.0035	ND		0.0022	ND		0.0024	ND		0.0025
Heptachlor	0.1	0.7	0.5	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
Heptachlor epoxide	0.07	0.3	0.01	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
Methoxychlor	390	5700	160	~		~	~		~	~		~	~		~	ND		0.0083	ND		0.0083	ND		0.012	ND		0.0073	ND		0.0079	ND		0.0083
Toxaphene	0.6	3	0.3	~		~	~		~	~		~	~		~	ND		0.083	ND		0.083	ND		0.12	ND		0.073	ND		0.079	ND		0.083
HERBICIDES																																	
2,4,5-T	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
2,4-D	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
2,4-DB	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
Dalapon	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
Dicamba	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
Dichlorprop	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
Dinoseb	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
MCPA	NA	NA	NA	~		~	~		~	~		~	~		~	ND		4.1	ND		4.1	ND		5.8	ND		3.6	ND		3.9	ND		4.1
Mecoprop	NA	NA	NA	~		~	~		~	~		~	~		~	ND		7.5	ND		7.4	ND		11	ND		6.5	ND		7.1	ND		7.4
Silvex (2,4,5-TP)	NA	NA	NA	~		~	~		~	~		~	~		~	ND		0.041	ND		0.041	ND		0.058	ND		0.036	ND		0.039	ND		0.041
OTHER PARAMETERS																																	
C9-C40 Total EPH - Category 1	5,100**	54,000**	NA	ND	H	2.1	ND	H F1	2.1	ND	H	2.2	~		~	~		~	~		~	~		~	~		~	~		~	~		~

Notes:
Shaded and bold value indicates an exceedence of the NJDEP most-stringent SSL/SRS
All results reported in parts per million (ppm or mg/Kg)
Sample depths reported in feet below ground surface (fbgs)
RSRS - NJDEP Residential Direct Contact Soil Remediation Standard - exceedences highlighted in yellow
NRSRS - NJDEP Nonresidential Direct Contact Soil Remediation Standard - exceedences highlighted in red
IGWSSL - NJDEP Default Impact to Groundwater Soil Screening Level - exceedences highlighted in blue
Q - Data Qualifier
RL - Laboratory Reporting Limit
ND - Not Detected exceeding RL
NA - No Applicable NJDEP SSL/SRS
TICs - Tentatively Identified Compounds
~ - Not analyzed for this compound
EPH - Extractable Petroleum Hydrocarbons
* - LCS or LCSD is outside acceptance limits
** - The most-stringent NJDEP EPH criteria is 1,700 ppm (ecological)
B - Compound was found in the blank and sample.
F1 - MS and/or MSD Recovery is outside acceptance limits
F2 - MS/MSD RPD exceeds control limits
H - Sample was prepared or analyzed beyond the specific hold time
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
N - This flag indicates the presumptive evidence of a compound
(#) - Indicates a Site-Specific IGWSRS calculated using NJDEP's Synthetic Precipitation Leaching Procedure (SPLP) methodology

WHITESTONE ASSOCIATES, INC.

TABLE 3
Groundwater Sampling & Analyses Data Summary

TABLE 3
GROUNDWATER SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

WHITESTONE ASSOCIATES, INC.		SAMPLE ID:	9999-23-MW01-GW01-12052018			9999-23-MW02-GW01-12052018			9999-23-MW03-GW01-12052018			9999-23-FB01-BK01-11202018			9999-23-FB-BK01-12052018			9999-23-TB01-BK01-11202018			9999-23-TB-BK01-12052018		
		LAB ID:	460-170982-1			460-170982-2			460-170982-3			460-169720-11			460-170982-4			460-169720-12			460-170982-5		
		COLLECTION DATE:	12/5/2018			12/5/2018			12/5/2018			11/20/2018			12/5/2018			11/20/2018			12/5/2018		
		DEPTH TO GW:	35.80			30.08			33.24			--			--			--			--		
		SAMPLE MATRIX:	GROUNDWATER			GROUNDWATER			GROUNDWATER			BLANK			BLANK			BLANK			BLANK		
ANALYTE	**GWQS**	**VIGSL**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS (VO)																							
Total VO TICs	500***	NA	ND			ND			ND			ND			ND			ND			ND		
1,1,1-Trichloroethane	30	13,000	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,1,2,2-Tetrachloroethane	1	6	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	20,000	3,700	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,1,2-Trichloroethane	3	8	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,1-Dichloroethane	50	50	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,1-Dichloroethene	1	260	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,2,3-Trichlorobenzene	NA	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,2,4-Trichlorobenzene	9	130	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,2-Dibromo-3-Chloropropane	0.02	NA	ND		1.0	ND		1.0	ND		1.0	ND		0.02	ND		1.0	ND		0.02	ND		1.0
1,2-Dichlorobenzene	600	6,800	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,2-Dichloroethane	2	3	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,2-Dichloropropane	1	4	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,3-Dichlorobenzene	600	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,4-Dichlorobenzene	75	75	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
1,4-Dioxane	0.4	NA	ND		0.40	ND		0.40	ND		0.40	ND	*	0.40	ND		0.40	ND		0.40	ND		50
2-Butanone (MEK)	300	2,500,000	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0
2-Hexanone	40	NA	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0
4-Methyl-2-pentanone (MIBK)	100**	900,000	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0
Acetone	6,000	21,000,000	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0
Benzene	1	20	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Bromoform	4	300	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Bromomethane	10	20	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Carbon disulfide	700	1,500	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Carbon tetrachloride	1	1	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Chlorobenzene	50	770	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Chlorodibromomethane	1	11	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Chloroethane	5	26,000	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Chloroform	70	70	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Chloromethane	NA	240	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
cis-1,2-Dichloroethene	70	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
cis-1,3-Dichloropropene	100**	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Dichlorobromomethane	1	6	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Dichlorodifluoromethane	1,000	1,000	ND	*	1.0	ND	*	1.0	ND	*	1.0	ND		1.0	ND	*	1.0	ND		1.0	ND	*	1.0
Ethylbenzene	700	700	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Ethylene Dibromide	0.03	0.4	ND		1.0	ND		1.0	ND		1.0	ND		0.02	ND		1.0	ND		0.02	ND		1.0
Isopropylbenzene	700	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Methyl acetate	7,000	NA	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0	ND		5.0
Methyl tert-butyl ether	70	580	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Methylcyclohexane	NA	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Methylene Chloride	3	920	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND	J	1.0	3.1		1.0
m-Xylene & p-Xylene	100**	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
o-Xylene	100**	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Styrene	100	180,000	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Tetrachloroethene	1	31	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Toluene	600	330,000	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
trans-1,2-Dichloroethene	100	520	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
trans-1,3-Dichloropropene	100**	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Trichloroethene	1	2	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Vinyl chloride	1	1	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0
Xylenes, Total	1,000	8,600	ND		2.0	ND		2.0	ND		2.0	ND		2.0	ND		2.0	ND		2.0	ND		2.0
BASE NEUTRAL ORGANICS/SEMI-VOLATILE ORGANICS (BN/SVO)																							
Total BN TICs	500***	NA	ND			ND			ND			ND			ND			~		~	~		~
1,2,4,5-Tetrachlorobenzene	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
2,2'-oxybis[1-chloropropane]	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
2,3,4,6-Tetrachlorophenol	200	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
2,4,5-Trichlorophenol	700	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
2,4,6-Trichlorophenol	20	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
2,4-Dichlorophenol	20	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
2,4-Dimethylphenol	100	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
2,4-Dinitrophenol	40	NA	~		~	~		~	~		~	ND		20	~		~	~		~	~		~
2,4-Dinitrotoluene	100**	NA	ND		2.0	ND		2.0	ND		2.0	ND		2.0	ND		2.0	~		~	~		~
2,6-Dinitrotoluene	100**	NA	ND		2.0	ND		2.0	ND		2.0	ND		2.0	ND		2.0	~		~	~		~
2-Chloronaphthalene	600	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
2-Chlorophenol	40	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
2-Methylnaphthalene	30	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
2-Methylphenol	50	NA	~		~	~		~	~		~	ND	*	10	~		~	~		~	~		~
2-Nitroaniline	100**	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
2-Nitrophenol	100**	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
3,3'-Dichlorobenzidine	30	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
3-Nitroaniline	100**	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~

TABLE 3
GROUNDWATER SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

WHITESTONE ASSOCIATES, INC.		SAMPLE ID:	9999-23-MW01-GW01-12052018			9999-23-MW02-GW01-12052018			9999-23-MW03-GW01-12052018			9999-23-FB01-BK01-11202018			9999-23-FB-BK01-12052018			9999-23-TB01-BK01-11202018			9999-23-TB-BK01-12052018		
		LAB ID:	460-170982-1			460-170982-2			460-170982-3			460-169720-11			460-170982-4			460-169720-12			460-170982-5		
		COLLECTION DATE:	12/5/2018			12/5/2018			12/5/2018			11/20/2018			12/5/2018			11/20/2018			12/5/2018		
		DEPTH TO GW:	35.80			30.08			33.24			--			--			--			--		
		SAMPLE MATRIX:	GROUNDWATER			GROUNDWATER			GROUNDWATER			BLANK			BLANK			BLANK			BLANK		
ANALYTE	**GWQS**	**VIGSL**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
4,6-Dinitro-2-methylphenol	0.7	NA	~		~	~		~	~		~	ND		0.50	~		~	~		~	~		~
4-Bromophenyl phenyl ether	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
4-Chloro-3-methylphenol	100**	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
4-Chloroaniline	30	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
4-Chlorophenyl phenyl ether	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
4-Methylphenol	50	NA	~		~	~		~	~		~	ND		10	~		~	~		~	~		~
4-Nitroaniline	100**	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
4-Nitrophenol	100**	NA	~		~	~		~	~		~	ND		20	~		~	~		~	~		~
Acenaphthene	400	NA	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND	*	0.050	~		~	~		~
Acenaphthylene	NA	NA	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND	*	0.050	~		~	~		~
Acetophenone	700	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Anthracene	2,000	NA	ND		0.050	ND		0.050	ND		0.050	ND	*	0.050	ND		0.050	~		~	~		~
Atrazine	3	NA	ND	*	2.0	ND	*	2.0	ND	*	2.0	ND		2.0	ND	*	2.0	~		~	~		~
Benzaldehyde	100**	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
Benzo[a]anthracene	0.1	NA	ND		0.050	ND		0.050	ND		0.050	ND		0.050	ND		0.050	~		~	~		~
Benzo[a]pyrene	0.1	NA	ND		0.050	ND		0.050	ND		0.050	ND		0.050	ND		0.050	~		~	~		~
Benzo[b]fluoranthene	0.2	NA	ND		0.050	ND		0.050	ND		0.050	ND		0.050	ND		0.050	~		~	~		~
Benzo[g,h,i]perylene	NA	NA	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND		0.050	ND	*	0.050	~		~	~		~
Benzo[k]fluoranthene	0.5	NA	ND		0.050	ND		0.050	ND		0.050	ND		0.050	ND		0.050	~		~	~		~
Bis(2-chloroethoxy)methane	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Bis(2-chloroethyl)ether	7	NA	ND	*	0.030	ND	*	0.030	ND	*	0.030	ND	*	0.030	ND	*	0.030	~		~	~		~
Bis(2-ethylhexyl) phthalate	3	NA	ND		2.0	ND		2.0	ND		2.0	ND		2.0	ND		2.0	~		~	~		~
Butyl benzyl phthalate	100	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
Caprolactam	4,000	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
Carbazole	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Chrysene	5	NA	ND		0.050	ND		0.050	ND		0.050	ND		0.050	ND		0.050	~		~	~		~
Dibenz(a,h)anthracene	0.3	NA	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND		0.050	ND	*	0.050	~		~	~		~
Dibenzofuran	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Diethyl phthalate	6,000	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Dimethyl phthalate	100**	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Di-n-butyl phthalate	700	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
Di-n-octyl phthalate	100	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
Diphenyl	400	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Fluoranthene	300	NA	ND		0.050	ND		0.050	ND		0.050	ND		0.050	ND		0.050	~		~	~		~
Fluorene	300	NA	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND	*	0.050	~		~	~		~
Hexachlorobenzene	0.02	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	~		~	~		~
Hexachlorobutadiene	1	NA	ND		1.0	ND		1.0	ND		1.0	ND	*	1.0	ND		1.0	~		~	~		~
Hexachlorocyclopentadiene	40	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Hexachloroethane	7	NA	ND		2.0	ND		2.0	ND		2.0	ND		2.0	ND		2.0	~		~	~		~
Indeno[1,2,3-cd]pyrene	0.2	NA	ND	*	0.050	ND	*	0.050	ND	*	0.050	ND		0.050	ND	*	0.050	~		~	~		~
Isophorone	40	NA	ND		10	ND		10	ND		10	ND		10	ND		10	~		~	~		~
Naphthalene	300	NA	ND		0.20	ND		0.20	ND		0.20	ND	*	0.20	ND		0.20	~		~	~		~
Nitrobenzene	6	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	~		~	~		~
N-Nitrosodimethylamine	0.8	NA	ND		0.20	ND		0.20	ND		0.20	ND		0.20	ND		0.20	~		~	~		~
N-Nitrosodi-n-propylamine	10	NA	ND		1.0	ND		1.0	ND		1.0	ND		1.0	ND		1.0	~		~	~		~
N-Nitrosodiphenylamine	10	NA	ND	*	10	ND	*	10	ND	*	10	ND		10	ND	*	10	~		~	~		~
Pentachlorophenol	0.3	NA	~		~	~		~	~		~	ND		0.20	~		~	~		~	~		~
Phenanthrene	NA	NA	ND		0.050	ND		0.050	ND		0.050	ND	*	0.050	ND		0.050	~		~	~		~
Pyrene	200	NA	ND		0.050	ND		0.050	ND		0.050	ND		0.050	ND		0.050	~		~	~		~
METALS																							
Aluminum	200	NA	**15,300**		**40.0**	**18,600**		**40.0**	**31,600**		**40.0**	ND		200	ND		40.0	~		~	~		~
Antimony	6	NA	0.55	J	2.0	0.85	J	2.0	1.3	J	2.0	ND		20.0	ND		2.0	~		~	~		~
Arsenic	3	NA	**12.6**		**2.0**	**18.7**		**2.0**	**29.5**		**2.0**	ND		15.0	ND		2.0	~		~	~		~
Barium	6,000	NA	360		4.0	93.5		4.0	192		4.0	ND		200	ND		4.0	~		~	~		~
Beryllium	1	NA	**1.1**		**0.80**	**1.3**		**0.80**	**1.9**		**0.80**	ND		2.0	ND		0.80	~		~	~		~
Cadmium	4	NA	ND		2.0	ND		2.0	ND		2.0	ND		4.0	ND		2.0	~		~	~		~
Calcium	NA	NA	15,200		200	10,800		200	50,200		200	ND		5,000	ND		200	~		~	~		~
Chromium	70	NA	**160**		**4.0**	**449**		**4.0**	**322**		**4.0**	ND		10.0	ND		4.0	~		~	~		~
Cobalt	100	NA	22.6		4.0	6.9		4.0	5.2		4.0	ND		50.0	ND		4.0	~		~	~		~
Copper	1,300	NA	16.0		4.0	28.4		4.0	34.6		4.0	ND		25.0	ND		4.0	~		~	~		~
Iron	300	NA	**25,600**		**120**	**39,700**		**120**	**63,200**		**120**	ND		150	ND		120	~		~	~		~
Lead	5	NA	**16.3**		**1.2**	**9.5**		**1.2**	**22.3**		**1.2**	ND		10.0	ND		1.2	~		~	~		~
Magnesium	NA	NA	5,250		200	2,640		200	13,700		200	ND		5,000	ND		200	~		~	~		~
Manganese	50	NA	**368**		**8.0**	**119**		**8.0**	**111**		**8.0**	ND		15.0	ND		8.0	~		~	~		~
Mercury	0.002	NA	**0.73**		**0.20**	**0.21**		**0.20**	ND		0.20	ND		0.00020	ND		0.20	~		~	~		~
Nickel	100	NA	54.8		4.0	**167**		**4.0**	**113**		**4.0**	ND		40.0	ND		4.0	~		~	~		~
Potassium	NA	NA	7,130		200	5,240		200	8,880		200	ND		5,000	196	J	200	~		~	~		~
Selenium	40	NA	ND		10.0	ND		10.0	7.9	J	10.0	ND		20.0	ND		10.0	~		~	~		~
Silver	40	NA	ND		2.0	ND		2.0	ND		2.0	ND		10.0	ND		2.0	~		~	~		~
Sodium	50,000	NA	33,600		200	**131,000**		**200**	23,800		200	ND		5,000	ND		200	~		~	~		~
Thallium	2	NA	0.29	J	0.80	0.20	J	0.80	0.34	J	0.80	ND		20.0	ND		0.80	~		~	~		~
Vanadium	NA	NA	52.1		4.0	61.6		4.0	112		4.0	ND		50.0	ND		4.0	~		~	~		~
Zinc	2,000	NA	23.0		16.0	27.4		16.0	31.4		16.0	ND		30.0	ND		16.0	~		~	~		~

TABLE 3
GROUNDWATER SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

		SAMPLE ID:	9999-23-MW01-GW01-12052018			9999-23-MW02-GW01-12052018			9999-23-MW03-GW01-12052018			9999-23-FB01-BK01-11202018			9999-23-FB-BK01-12052018			9999-23-TB01-BK01-11202018			9999-23-TB-BK01-12052018		
		LAB ID:	460-170982-1			460-170982-2			460-170982-3			460-169720-11			460-170982-4			460-169720-12			460-170982-5		
		COLLECTION DATE:	12/5/2018			12/5/2018			12/5/2018			11/20/2018			12/5/2018			11/20/2018			12/5/2018		
		DEPTH TO GW:	35.80			30.08			33.24			--			--			--			--		
		SAMPLE MATRIX:	GROUNDWATER			GROUNDWATER			GROUNDWATER			BLANK			BLANK			BLANK			BLANK		
ANALYTE	**GWQS**	**VIGSL**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
POLYCHLORINATED BIPHENYLS (PCB)																							
Total PCBs	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1016	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1221	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1232	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1242	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1248	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1254	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1260	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1262	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PCB-1268	0.5	NA	~		~	~		~	~		~	ND		0.40	~		~	~		~	~		~
PESTICIDES																							
4,4'-DDD	0.1	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
4,4'-DDE	0.1	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
4,4'-DDT	0.1	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Aldrin	0.04	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
alpha-BHC	0.02	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
beta-BHC	0.04	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Chlordane (technical)	NA	NA	~		~	~		~	~		~	ND		0.50	~		~	~		~	~		~
delta-BHC	NA	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Dieldrin	0.03	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Endosulfan I	40	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Endosulfan II	40	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Endosulfan sulfate	40	NA	~		~	~		~	~		~	ND	*	0.020	~		~	~		~	~		~
Endrin	2	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Endrin aldehyde	NA	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Endrin ketone	NA	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
gamma-BHC (Lindane)	0.03	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Heptachlor	0.05	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Heptachlor epoxide	0.2	NA	~		~	~		~	~		~	ND		0.020	~		~	~		~	~		~
Methoxychlor	40	NA	~		~	~		~	~		~	ND	*	0.020	~		~	~		~	~		~
Toxaphene	2	NA	~		~	~		~	~		~	ND		0.50	~		~	~		~	~		~
HERBICIDES																							
2,4,5-T	NA	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~
2,4-D	70	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~
2,4-DB	NA	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~
Dalapon	200	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~
Dicamba	NA	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~
Dichlorprop	NA	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~
Dinoseb	7	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~
MCPA	NA	NA	~		~	~		~	~		~	ND		120	~		~	~		~	~		~
Mecoprop	7	NA	~		~	~		~	~		~	ND	*	120	~		~	~		~	~		~
Silvex (2,4,5-TP)	60	NA	~		~	~		~	~		~	ND		1.2	~		~	~		~	~		~

Notes:
Shaded and bold value indicates an exceedence of the NJDEP GWQS or VIGSL
All results reported in parts per billion (ppb or ug/L)
Depth to groundwater reported in feet below top of casing (fbtoc)
GWQS - NJDEP Groundwater Quality Standard - exceedences highlighted in yellow
VIGSL - NJDEP Generic Vapor Intrusion Groundwater Screening Level - exceedences highlighted in red
Flg - Data Qualifier
RL - Laboratory Reporting Limit
ND - Not Detected exceeding RL
NA - No Applicable NJDEP GWQS or VIGSL
TICs - Tentatively Identified Compounds
~ - Not analyzed for this compound
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
* - RPD of the LCS and LCSD exceeds the control limits
** - Based on NJDEP Interim Generic Groundwater Quality Criteria
*** - Combined VO and BN TICs

WHITESTONE ASSOCIATES, INC.

TABLE 4
Soil Gas Sampling & Analyses Data Summary

TABLE 4
SOIL GAS SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

WHITESTONE ASSOCIATES, INC.		CLIENT ID:	9999-23-VP01-SV01-11202018		
		LAB ID:	200-46373-1		
		COLLECTION DATE:	11/20/2018		
		SAMPLE DEPTH:	5.0		
		SAMPLE MATRIX:	SOIL GAS		
ANALYTE	**NJ-RVISGSL**	**NJ-NRVISGSL**	Result	Flg	RL
VOLATILE ORGANICS (VO)					
1,1,1-Trichloroethane	260,000	1,100,000	ND		11
1,1,2,2-Tetrachloroethane	34	34	ND		14
1,1,2-Trichloro-1,2,2-trifluoroethane	1,600,000	6,600,000	ND		15
1,1,2-Trichloroethane	27	38	ND		11
1,1-Dichloroethane	76	380	ND		8.1
1,1-Dichloroethene	10,000	44,000	ND		7.9
1,2,4-Trichlorobenzene	100	440	ND		37
1,2,4-Trimethylbenzene	NA	NA	ND		9.8
1,2-Dichloro-1,1,2,2-tetrafluoroethane	NA	NA	ND		14
1,2-Dichlorobenzene	10,000	44,000	ND		12
1,2-Dichloroethane	20	24	ND		8.1
1,2-Dichloropropane	23	61	ND		9.2
1,3,5-Trimethylbenzene	NA	NA	ND		9.8
1,3-Butadiene	11	20	ND		4.4
1,3-Dichlorobenzene	NA	NA	ND		12
1,4-Dichlorobenzene	30	56	ND		12
1,4-Dioxane	NA	NA	ND		180
2-Butanone (MEK)	2,600,000	1,100,000	30		15
2-Chlorotoluene	NA	NA	ND		10
2-Methyl-2-propanol	NA	NA	ND		150
3-Chloro-1-propene	20	100	ND		16
4-Ethyltoluene	NA	NA	ND		9.8
4-Methyl-2-pentanone (MIBK)	160,000	660,000	ND		20
Acetone	1,600,000	6,800,000	ND		120
Benzene	16	79	ND		6.4
Bromoform	110	560	ND		21
Bromomethane	260	1,100	ND		7.8
Carbon disulfide	36,000	150,000	ND		16
Carbon tetrachloride	31	100	ND		13
Chlorobenzene	2,600	11,000	ND		9.2
Chlorodibromomethane	43	43	ND		17
Chloroethane	520,000	2,200,000	ND		13
Chloroform	24	27	ND		9.8
Chloromethane	4,700	20,000	ND		10
cis-1,2-Dichloroethene	NA	NA	ND		7.9
cis-1,3-Dichloropropene	30*	150*	ND		9.1
Cyclohexane	310,000	1,300,000	ND		6.9
Dichlorobromomethane	43	43	ND		13
Dichlorodifluoromethane	5,200	22,000	ND		25
Ethanol	NA	NA	ND		94
Ethylbenzene	49	250	8.5	J	8.7
Ethylene Dibromide	38	38	ND		15
Hexachlorobutadiene	53	53	ND		21
Hexamethylcyclotrisiloxane	NA	NA	11**	J	
Hexane	NA	NA	ND		7.0
Isooctane	NA	NA	ND		9.3
Isopropyl alcohol	NA	NA	ND		120

TABLE 4
SOIL GAS SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

WHITESTONE ASSOCIATES, INC.		CLIENT ID:	9999-23-VP01-SV01-11202018		
		LAB ID:	200-46373-1		
		COLLECTION DATE:	11/20/2018		
		SAMPLE DEPTH:	5.0		
		SAMPLE MATRIX:	SOIL GAS		
ANALYTE	**NJ-RVISGSL**	**NJ-NRVISGSL**	Result	Flg	RL
Methyl methacrylate	NA	NA	ND		20
Methyl tert-butyl ether	470	2,400	ND		7.2
Methylene Chloride	4,800	61,000	ND		17
m-Xylene & p-Xylene	5,200*	22,000*	23		22
Naphthalene	NA	NA	ND		26
n-Heptane	NA	NA	ND		8.2
o-Xylene	5,200*	22,000*	10		8.7
Styrene	52,000	220,000	ND		8.5
tert-Butylbenzene	NA	NA	ND		11
Tetrachloroethene	470	2,400	7.9	J	14
Tetrahydrofuran	NA	NA	ND		150
Toluene	260,000	1,100,000	9.9		7.5
trans-1,2-Dichloroethene	3,100	13,000	ND		7.9
trans-1,3-Dichloropropene	30*	150*	ND		9.1
Trichloroethene	27	150	ND		11
Trichlorofluoromethane	36,000	150,000	ND		11
Vinyl bromide	22	22	ND		8.7
Vinyl chloride	13	140	ND		5.1

Notes:
All results reported in micrograms per cubic meter (ug/m^3)
ND - Not detected at or above the indicated reporting limit
NA - No Applicable NJ-RVISGSL or NJ-NRVISGSL
Shaded and bold value indicates an exceedence of the NJDEP most-stringent SGSL
NJ-RVISGSL - New Jersey Department of Environmental Protection Residential Vapor Intrusion Soil Gas Screening Level (January 2013)
NJ-NRVISGSL - New Jersey Department of Environmental Protection Non-Residential Vapor Intrusion Soil Gas Screening Level (January 2013)
* - NJDEP SGSL for total concentration of detected isomers
** - Reported in parts per billion (ppb)
Sample depth reported as feet below ground surface (fbgs)
RL - Laboratory Reporting Limit
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

WHITESTONE
ASSOCIATES, INC.

TABLE 5
SPLP Sampling & Analyses Data Summary

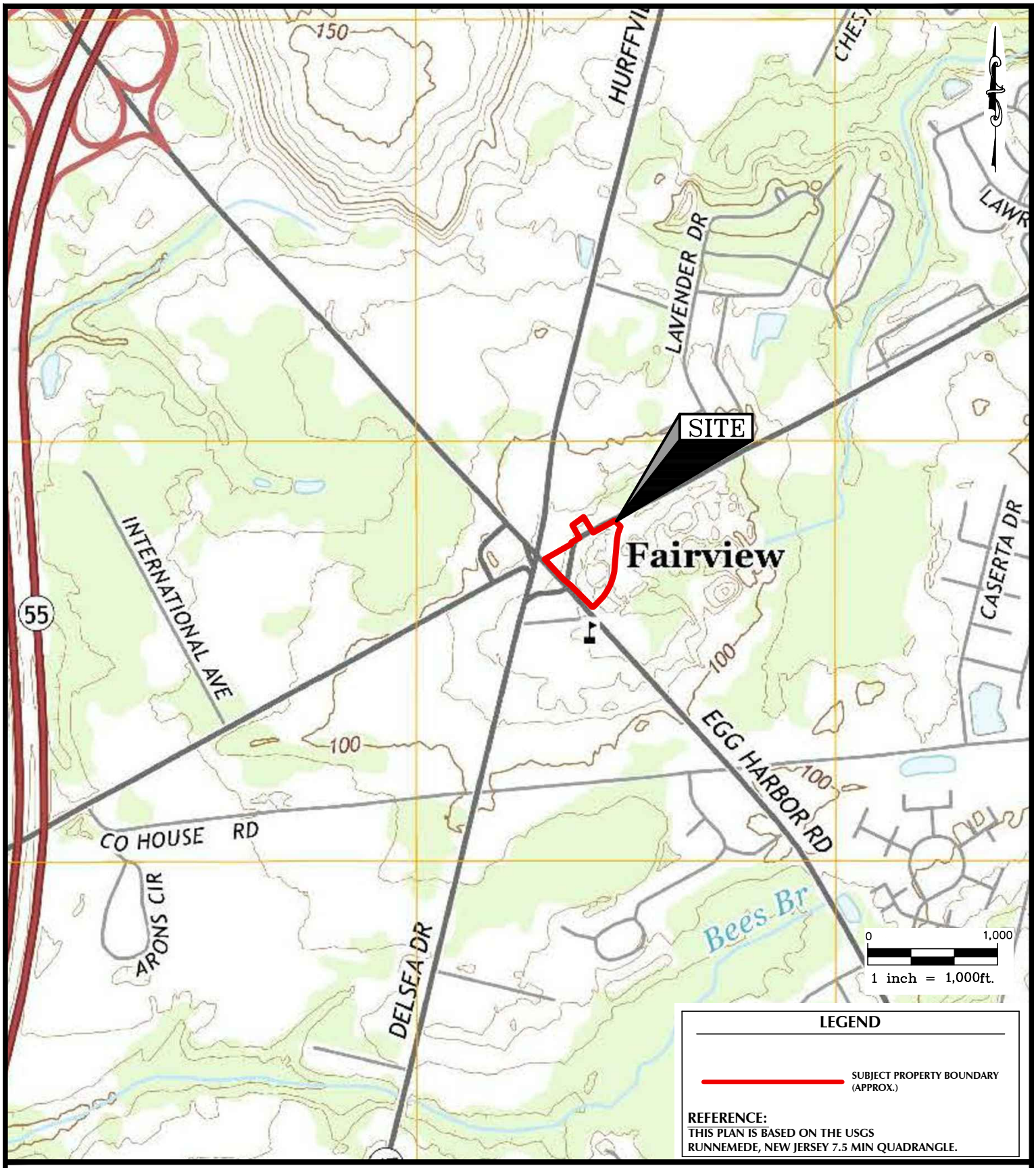
TABLE 5
SPLP SAMPLING & ANALYSES DATA SUMMARY
Mixed-Use Site
100 & 108 Egg Harbor Road & 203 & 218 Blackwood Barnsboro Road
Washington & Deptford Townships, Gloucester County, New Jersey

WHITESTONE ASSOCIATES, INC.	**SAMPLE ID:**	9999-23-SB06-SL01-11202018		
	LAB ID:	460-169720-10		
	COLLECTION DATE:	11/20/2018		
	SAMPLE DEPTH:	0.0 to 0.5		
	SAMPLE MATRIX:	SOIL		
ANALYTE	**SPLP LC**	Result	Flg	RL
PESTICIDES				
Dieldrin	0.04	ND		0.016
OTHER PARAMETERS				
SPLP Initial Weight	NA	100		
SPLP Final Volume	NA	2,000		

Notes:
Shaded and bold value indicates an exceedence of the NJDEP SPLP LC
All results reported in parts per billion (ppb) or micrograms per liter (ug/L)
Sample depths reported in feet below ground surface (fbgs)
SPLP LC - NJDEP Synthetic Precipitation Leaching Procedure Default Leachate Criteria
Flg - Data Qualifier
RL - Laboratory Reporting Limit
ND - Not Detected exceeding RL
NA - No Applicable NJDEP SPLP LC

WHITESTONE ASSOCIATES, INC.

FIGURE 1
Site Location Map
(USGS Topographic Quadrangle)



LEGEND

SUBJECT PROPERTY BOUNDARY (APPROX.)

REFERENCE:
THIS PLAN IS BASED ON THE USGS RUNNEMEDE, NEW JERSEY 7.5 MIN QUADRANGLE.

PROJECT #:	EJ1815811.000
DESIGNED BY:	GR
PROJ. MGR.:	CS
DATE:	4/2/19
FIGURE:	1
SCALE:	1" = 1,000'

DRAWING TITLE:
SITE LOCATION MAP

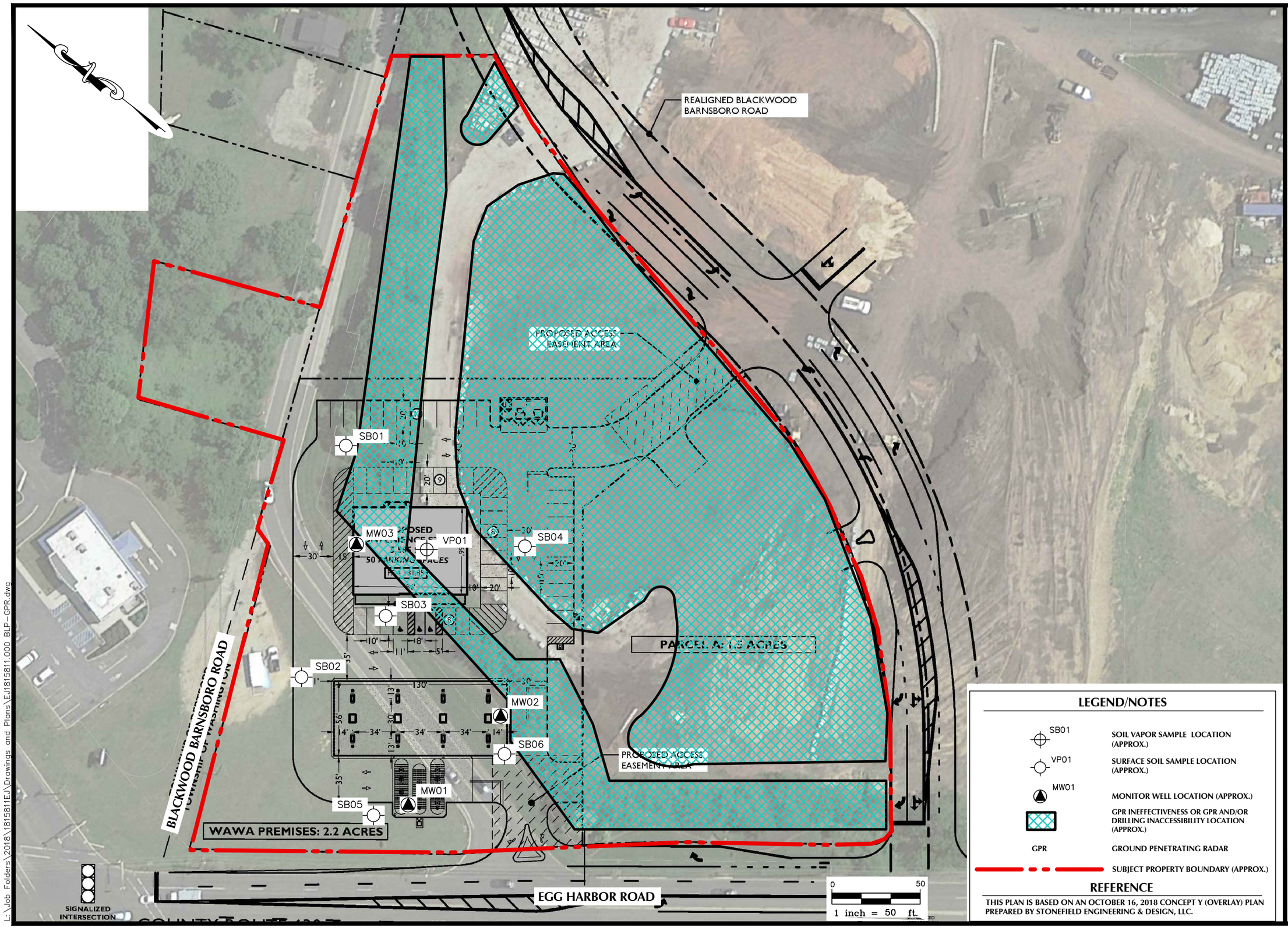
CLIENT:
THE FERBER COMPANY, INC.

PROJECT:
PHASE II SITE INVESTIGATION
MIXED-USE SITE
100 & 108 EGG HARBOR ROAD & 203 & 218 BLACKWOOD BARNSBORO ROAD
BLOCK 7, PORTION OF LOT 6.02, BLOCK 7.04 LOT 6 & BLOCK 386.12, LOT 12
WASHINGTON & DEPTFORD TOWNSHIPS, GLOUCESTER COUNTY, NJ

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
35 TECHNOLOGY DRIVE, WARREN, NJ 07059
908.668.7777 WHITESTONEASSOC.COM

WHITESTONE ASSOCIATES, INC.

FIGURE 2
Boring/GPR Location Plan



LEGEND/NOTES

SB01	SOIL VAPOR SAMPLE LOCATION (APPROX.)
VP01	SURFACE SOIL SAMPLE LOCATION (APPROX.)
MW01	MONITOR WELL LOCATION (APPROX.)
	GPR INEFFECTIVENESS OR GPR AND/OR DRILLING INACCESSIBILITY LOCATION (APPROX.)
GPR	GROUND PENETRATING RADAR
	SUBJECT PROPERTY BOUNDARY (APPROX.)

REFERENCE

THIS PLAN IS BASED ON AN OCTOBER 16, 2018 CONCEPT Y (OVERLAY) PLAN PREPARED BY STONEFIELD ENGINEERING & DESIGN, LLC.

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
35 TECHNOLOGY DRIVE, WARREN, NJ 07059
908.668.7777 WHITESTONEASSOC.COM

DRAWING TITLE: **BORING/GPR LOCATION PLAN**

CLIENT: **THE FERBER COMPANY, INC.**

PROJECT:
PHASE II SITE INVESTIGATION
MIXED-USE SITE
100 & 108 EGG HARBOR ROAD & 203 & 218 BLACKWOOD BARNSBORO ROAD
BLOCK 7, PORTION OF LOT 6.02, BLOCK 7.04 LOT 6 & BLOCK 386.12, LOT 12
WASHINGTON & DEPTFORD TOWNSHIPS, GLOUCESTER COUNTY, NJ

PROJECT #: EJ1815811.00	
DESIGNED BY: GR	PROJ. MGR.: CS
DATE: 4/2/19	FIGURE: 2
SCALE: 1" = 50'	

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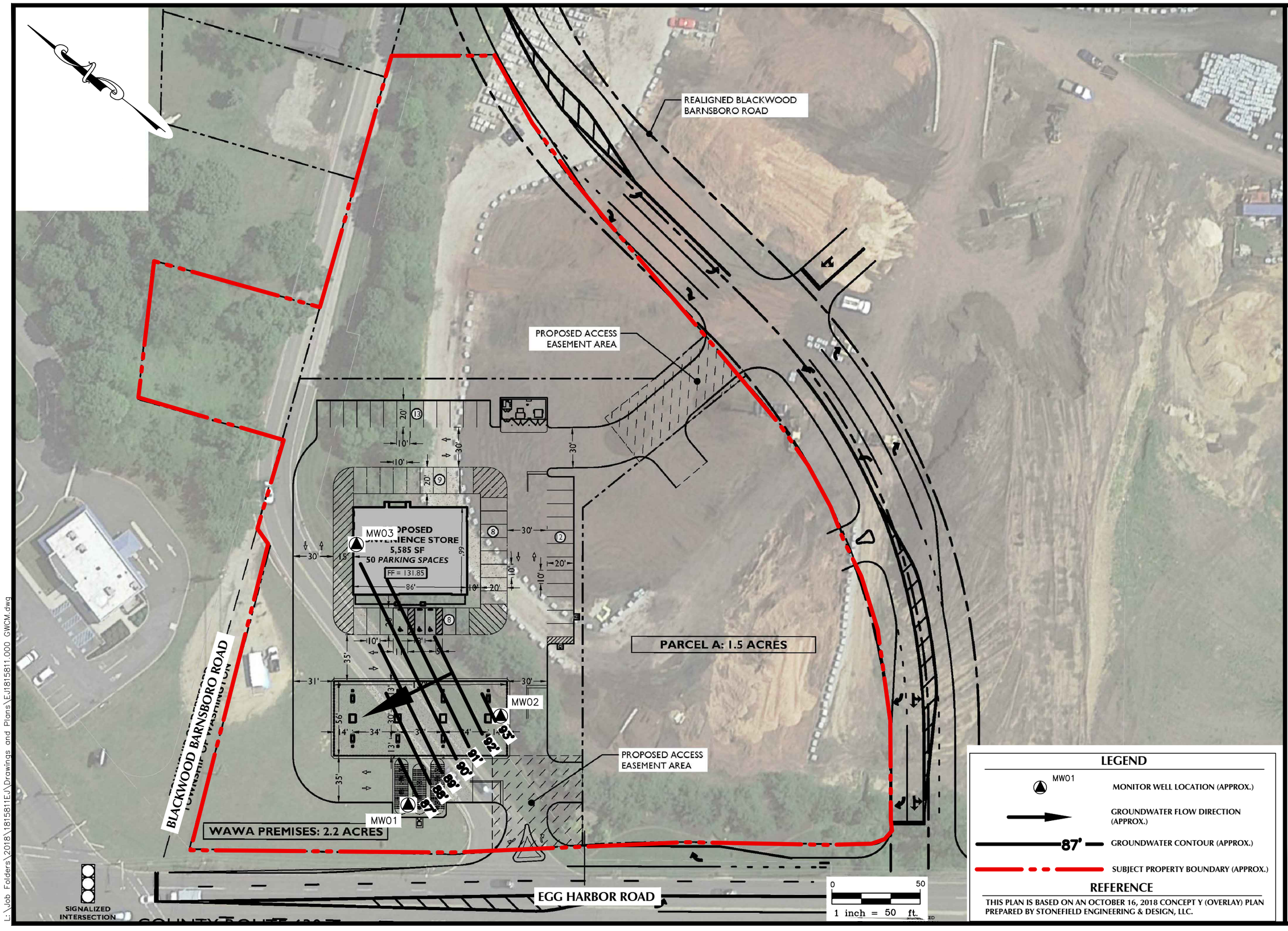
WHITESTONE ASSOCIATES, INC.

FIGURE 3
Monitor Well Location & Groundwater Contour Map



LEGEND

- MW01 — MONITOR WELL LOCATION (APPROX.)
- GROUNDWATER FLOW DIRECTION (APPROX.)
- 87' — GROUNDWATER CONTOUR (APPROX.)
- SUBJECT PROPERTY BOUNDARY (APPROX.)

REFERENCE

THIS PLAN IS BASED ON AN OCTOBER 16, 2018 CONCEPT Y (OVERLAY) PLAN PREPARED BY STONEFIELD ENGINEERING & DESIGN, LLC.

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
35 TECHNOLOGY DRIVE, WARREN, NJ 07059
908.668.7777 WHITESTONEASSOC.COM

DRAWING TITLE: MONITOR WELL LOCATION & GROUNDWATER CONTOUR MAP

CLIENT: THE FERBER COMPANY, INC.

PROJECT: PHASE II SITE INVESTIGATION
MIXED-USE SITE
100 & 108 EGG HARBOR ROAD & 203 & 218 BLACKWOOD BARNSBORO ROAD
BLOCK 7, PORTION OF LOT 6.02, BLOCK 7.04 LOT 6 & BLOCK 386.12, LOT 12
WASHINGTON & DEPTFORD TOWNSHIPS, GLOUCESTER COUNTY, NJ

PROJECT #: EJ1815811.000	
DESIGNED BY: GR	PROJ. MGR.: CS
DATE: 4/2/19	FIGURE: 3
SCALE: 1" = 50'	

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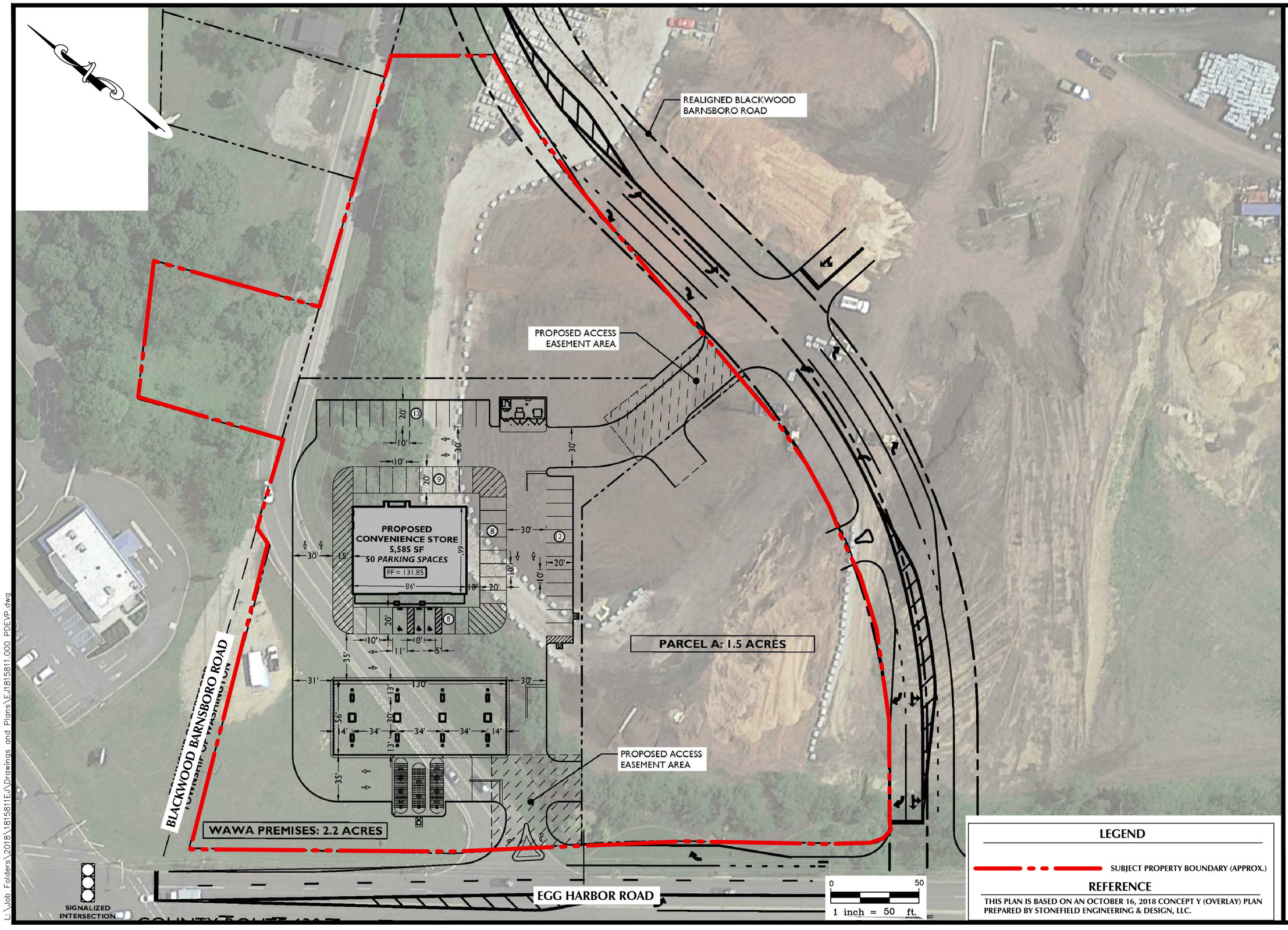
WHITESTONE
ASSOCIATES, INC.

FIGURE 4
Proposed Development Plan



LEGEND

SUBJECT PROPERTY BOUNDARY (APPROX.)

REFERENCE

THIS PLAN IS BASED ON AN OCTOBER 16, 2018 CONCEPT Y (OVERLAY) PLAN PREPARED BY STONEFIELD ENGINEERING & DESIGN, LLC.

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
35 TECHNOLOGY DRIVE, WARREN, NJ 07059
908.668.7777 WHITESTONEASSOC.COM

DRAWING TITLE: **PROPOSED DEVELOPMENT PLAN**

CLIENT: **THE FERBER COMPANY, INC.**

PROJECT:
PHASE II SITE INVESTIGATION
MIXED-USE SITE
100 & 108 EGG HARBOR ROAD & 203 & 218 BLACKWOOD BARNSBORO ROAD
BLOCK 7, PORTION OF LOT 6.02, BLOCK 7.04 LOT 6 & BLOCK 386.12, LOT 12
WASHINGTON & DEPTFORD TOWNSHIPS, GLOUCESTER COUNTY, NJ

PROJECT #: EJ1815811.000	
DESIGNED BY: GR	PROJ. MGR.: CS
DATE: 4/2/19	FIGURE: 4
SCALE: 1" = 50'	

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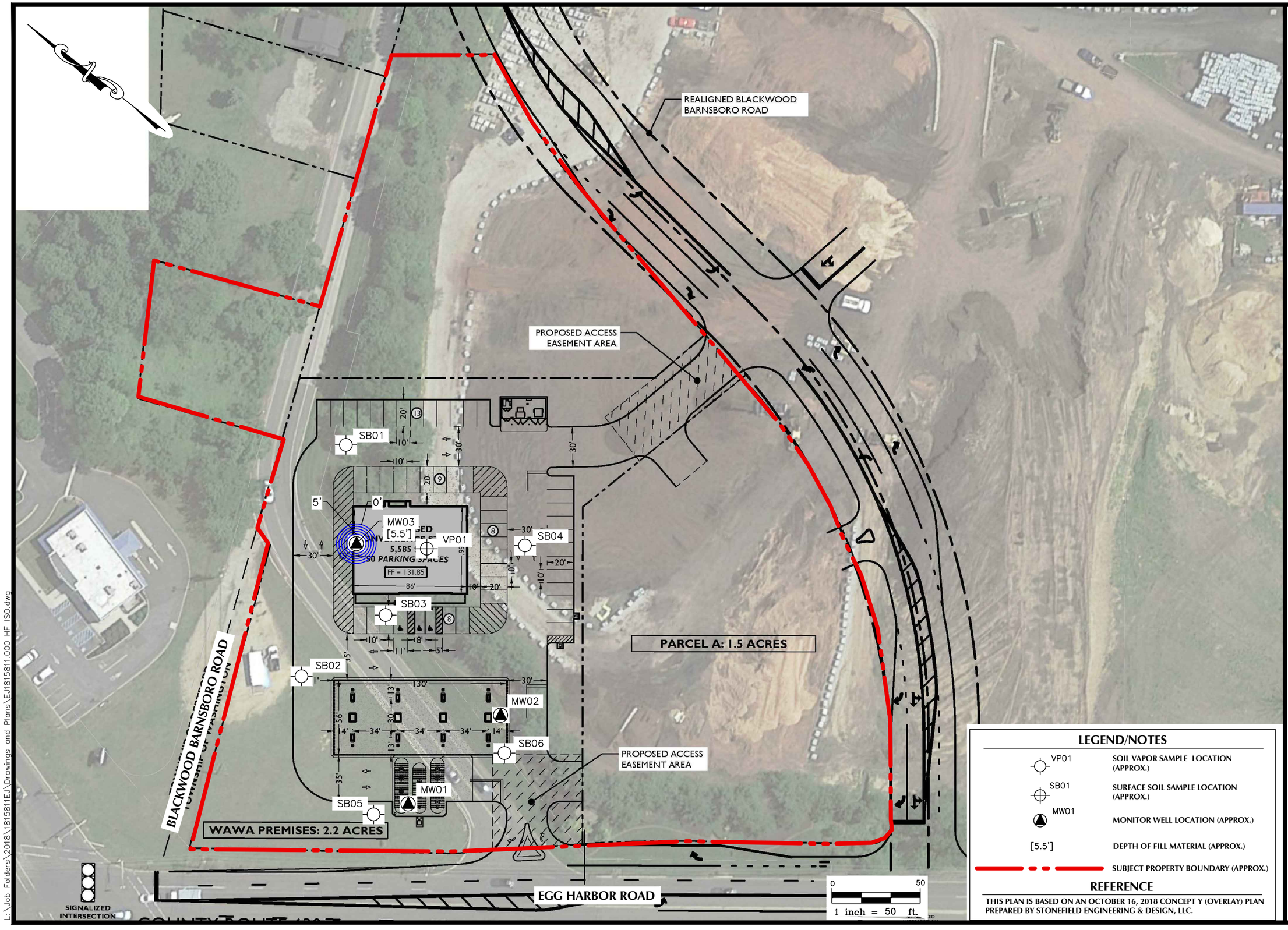
WHITESTONE ASSOCIATES, INC.

FIGURE 5
Fill Isopleth Plan



LEGEND/NOTES

VP01	SOIL VAPOR SAMPLE LOCATION (APPROX.)
SB01	SURFACE SOIL SAMPLE LOCATION (APPROX.)
MW01	MONITOR WELL LOCATION (APPROX.)
[5.5']	DEPTH OF FILL MATERIAL (APPROX.)
	SUBJECT PROPERTY BOUNDARY (APPROX.)

REFERENCE

THIS PLAN IS BASED ON AN OCTOBER 16, 2018 CONCEPT Y (OVERLAY) PLAN PREPARED BY STONEFIELD ENGINEERING & DESIGN, LLC.

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
35 TECHNOLOGY DRIVE, WARREN, NJ 07059
908.668.7777 WHITESTONEASSOC.COM

DRAWING TITLE: **FILL ISOPLETH PLAN**

CLIENT: **THE FERBER COMPANY, INC.**

PROJECT:
PHASE II SITE INVESTIGATION
MIXED-USE SITE
100 & 108 EGG HARBOR ROAD & 203 & 218 BLACKWOOD BARNSBORO ROAD
BLOCK 7, PORTION OF LOT 6.02, BLOCK 7.04 LOT 6 & BLOCK 386.12, LOT 12
WASHINGTON & DEPTFORD TOWNSHIPS, GLOUCESTER COUNTY, NJ

PROJECT #:	EJ1815811.000
DESIGNED BY: GR	PROJ. MGR.: CS
DATE: 4/2/19	FIGURE: 5
SCALE: 1" = 50'	

L:\Job Folders\2018\1815811EJ\Drawings and Plans\EJ1815811.000 HF ISO.dwg

WHITESTONE
ASSOCIATES, INC.

ATTACHMENT A
Records of Subsurface Exploration

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: SB01

Project:	Mixed-Use Site	**WAI Project No.:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, Gloucester County, New Jersey	**Client:**	The Ferber Company, Inc.

					Water Depths (feet bgs)	Water Elevations (feet msl)
Surface Elevation:	± NS feet above msl	**Date Started:**	November 20, 2018			
Termination Depth:	0.5 feet bgs	**Date Completed:**	November 20, 2018			
Drilling Method:	Hand Auger	**Logged By:**	A. Raposo	**While Drilling:**	NE	NS
Test Method:	Hand Auger	**Contractor:**	N/A	**At Completion:**	NE	NS
		Machine:	Hand Auger	**24 Hours:**	NA	NS

DEPTH (feet)	DESCRIPTION OF MATERIALS				PID READINGS (ppm)	RECOVERY (inches)	DEPTH (feet)
	USCS	Color	Soil Description	Notes			
0	TS	Dark Brown	TOPSOIL		0.0	6	0
1							1
2							2
3							3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16
17							17
18							18
19							19
20							20

NOTES: bgs = Below Ground Surface, msl = Mean Sea Level, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, PID = Photoionization Detector, DTR = Due To Refusal

Boring No. SB01 Terminated at a Depth of: 0.5 Feet Below Ground Surface

Soil Sample: 9999-23-SB01-SL01-11202018 collected from 0.0 fbgs to 0.5 fbgs at 07:45

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: SB02

Project:	Mixed-Use Site	**WAI Project No.:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, Gloucester County, New Jersey	**Client:**	The Ferber Company, Inc.

					Water Depths (feet bgs)	Water Elevations (feet msl)
Surface Elevation:	± NS feet above msl	**Date Started:**	November 20, 2018			
Termination Depth:	0.5 feet bgs	**Date Completed:**	November 20, 2018			
Drilling Method:	Hand Auger	**Logged By:**	A. Raposo	**While Drilling:**	NE	NS
Test Method:	Hand Auger	**Contractor:**	N/A	**At Completion:**	NE	NS
		Machine:	Hand Auger	**24 Hours:**	NA	NS

DEPTH (feet)	USCS	Color	Soil Description	Notes	PID READINGS (ppm)	RECOVERY (inches)	DEPTH (feet)
0	TS	Dark Brown	TOPSOIL		0.0	6	0
1							1
2							2
3							3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16
17							17
18							18
19							19
20							20

NOTES: bgs = Below Ground Surface, msl = Mean Sea Level, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, PID = Photoionization Detector, DTR = Due To Refusal

Boring No. SB02 Terminated at a Depth of: 0.5 Feet Below Ground Surface

Soil Sample: 9999-23-SB02-SL01-11202018 collected from 0.0 fbgs to 0.5 fbgs at 08:00

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: SB03

Project:	Mixed-Use Site	**WAI Project No.:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, Gloucester County, New Jersey	**Client:**	The Ferber Company, Inc.

					Water Depths (feet bgs)	Water Elevations (feet msl)
Surface Elevation:	± NS feet above msl	**Date Started:**	November 20, 2018			
Termination Depth:	0.5 feet bgs	**Date Completed:**	November 20, 2018			
Drilling Method:	Hand Auger	**Logged By:**	A. Raposo	**While Drilling:**	NE	NS
Test Method:	Hand Auger	**Contractor:**	N/A	**At Completion:**	NE	NS
		Machine:	Hand Auger	**24 Hours:**	NA	NS

DEPTH (feet)	DESCRIPTION OF MATERIALS				PID READINGS (ppm)	RECOVERY (inches)	DEPTH (feet)
	USCS	Color	Soil Description	Notes			
0	TS	Dark Brown	TOPSOIL		0.0	6	0
1							1
2							2
3							3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16
17							17
18							18
19							19
20							20

NOTES: bgs = Below Ground Surface, msl = Mean Sea Level, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, PID = Photoionization Detector, DTR = Due To Refusal

Boring No. SB03 Terminated at a Depth of: 0.5 Feet Below Ground Surface

Soil Sample: 9999-23-SB03-SL01-11202018 collected from 0.0 fbgs to 0.5 fbgs at 09:35

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: SB04

Project:	Mixed-Use Site	**WAI Project No.:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, Gloucester County, New Jersey	**Client:**	The Ferber Company, Inc.

					Water Depths (feet bgs)	Water Elevations (feet msl)
Surface Elevation:	± NS feet above msl	**Date Started:**	November 20, 2018			
Termination Depth:	0.5 feet bgs	**Date Completed:**	November 20, 2018			
Drilling Method:	Hand Auger	**Logged By:**	A. Raposo	**While Drilling:**	NE	NS
Test Method:	Hand Auger	**Contractor:**	N/A	**At Completion:**	NE	NS
		Machine:	Hand Auger	**24 Hours:**	NA	NS

DEPTH (feet)	USCS	Color	Soil Description	Notes	PID READINGS (ppm)	RECOVERY (inches)	DEPTH (feet)
0	TS	Dark Brown	TOPSOIL		0.0	6	0
1							1
2							2
3							3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16
17							17
18							18
19							19
20							20

NOTES: bgs = Below Ground Surface, msl = Mean Sea Level, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, PID = Photoionization Detector, DTR = Due To Refusal

Boring No. SB04 Terminated at a Depth of: 0.5 Feet Below Ground Surface

Soil Sample: 9999-23-SB04-SL01-11202018 collected from 0.0 fbgs to 0.5 fbgs at 09:40

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: SB05

Project:	Mixed-Use Site	**WAI Project No.:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, Gloucester County, New Jersey	**Client:**	The Ferber Company, Inc.

					Water Depths (feet bgs)	Water Elevations (feet msl)
Surface Elevation:	± NS feet above msl	**Date Started:**	November 20, 2018			
Termination Depth:	0.5 feet bgs	**Date Completed:**	November 20, 2018			
Drilling Method:	Hand Auger	**Logged By:**	A. Raposo	**While Drilling:**	NE	NS
Test Method:	Hand Auger	**Contractor:**	N/A	**At Completion:**	NE	NS
		Machine:	Hand Auger	**24 Hours:**	NA	NS

DEPTH (feet)	USCS	Color	Soil Description	Notes	PID READINGS (ppm)	RECOVERY (inches)	DEPTH (feet)
0	TS	Dark Brown	TOPSOIL		0.0	6	0
1							1
2							2
3							3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16
17							17
18							18
19							19
20							20

NOTES: bgs = Below Ground Surface, msl = Mean Sea Level, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, PID = Photoionization Detector, DTR = Due To Refusal

Boring No. SB05 Terminated at a Depth of: 0.5 Feet Below Ground Surface

Soil Sample: 9999-23-SB05-SL01-11202018 collected from 0.0 fbgs to 0.5 fbgs at 10:00

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: SB06

Project:	Mixed-Use Site	**WAI Project No.:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, Gloucester County, New Jersey	**Client:**	The Ferber Company, Inc.

					Water Depths (feet bgs)	Water Elevations (feet msl)
Surface Elevation:	± NS feet above msl	**Date Started:**	November 20, 2018			
Termination Depth:	0.5 feet bgs	**Date Completed:**	November 20, 2018			
Drilling Method:	Hand Auger	**Logged By:**	A. Raposo	**While Drilling:**	NE	NS
Test Method:	Hand Auger	**Contractor:**	N/A	**At Completion:**	NE	NS
		Machine:	Hand Auger	**24 Hours:**	NA	NS

DEPTH (feet)	DESCRIPTION OF MATERIALS				PID READINGS (ppm)	RECOVERY (inches)	DEPTH (feet)
	USCS	Color	Soil Description	Notes			
0	TS	Dark Brown	TOPSOIL		0.0	6	0
1							1
2							2
3							3
4							4
5							5
6							6
7							7
8							8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16
17							17
18							18
19							19
20							20

NOTES: bgs = Below Ground Surface, msl = Mean Sea Level, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, PID = Photoionization Detector, DTR = Due To Refusal

Boring No. SB06 Terminated at a Depth of: 0.5 Feet Below Ground Surface

Soil Sample: 9999-23-SB06-SL01-11202018 collected from 0.0 fbgs to 0.5 fbgs at 10:20

WHITESTONE ASSOCIATES, INC.
35 Technology Drive, Warren, NJ 07059
Phone: (908) 668-7777, Fax: (908) 754-5936

Well Number MW01
Start Date: November 19, 2018
Completion Date: November 19, 2018

Project: Mixed-Use Site
Location: 100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, New Jersey
Geologist: A. Raposo
Driller/Helper: Jim/Nelson
Drilling Method: Hollow Stem Auger
Sampler Type: Macro-Core

Whitestone Job #: EJ1815811.000
Well Permit #: E201811986
Drilling Co.: Hawk Drilling, Inc.
Drill Rig: AMS
Type of Bit: Auger

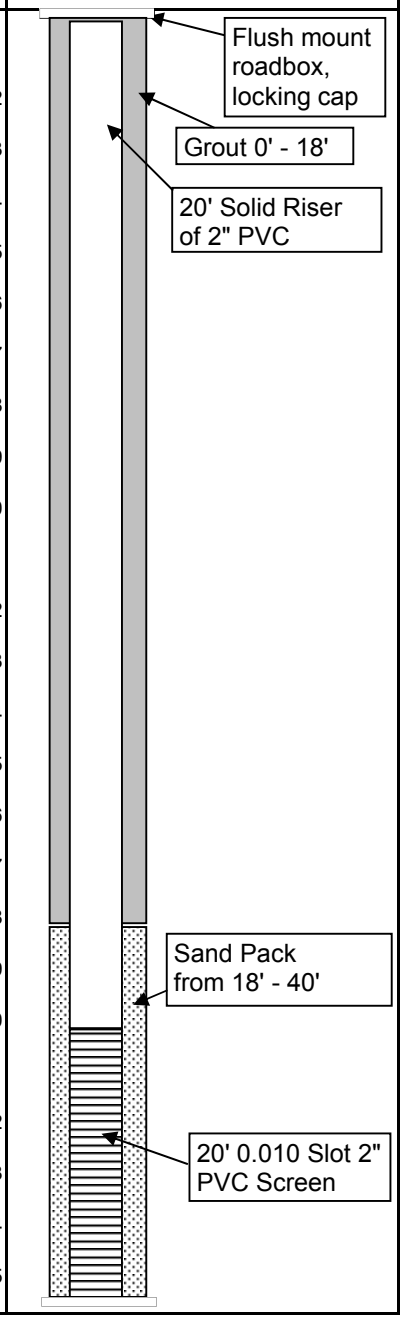
G.W. Encountered: 24.0' **G.W. Stabilized:** 31.09' **Well Depth:** 40.0'
Depth to Rim: 2.9" **Borehole Diameter:** 8" **Well Diameter:** 2"

Solid Riser/Casing: 0.0' - 20.0'
Screen Interval/Screen Type: 20.0' - 40.0' / 0.010 Slot
Grout: 0.0' - 18.0' **Sand Pack/Open Borehole:** 18.0' - 40.0'

DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0	RECOVERY (INCHES)	SOIL TYPE	SOIL/GEOLOGICAL DESCRIPTION
0		0.0			TS	16 Inches of Topsoil
1		0.0			SP	Yellow-Brown Poorly-Graded Coarse SAND with Trace Gravel
		0.0				
2		0.0				
		0.0				
3		0.0				
		0.0				
4		0.0				
		0.0				
5		0.0		29		
		0.0				
6		0.0				
		0.0				
7		0.0				
		0.0				
8		0.0				
		0.0				
9		0.0				
		0.0				
10		0.0		30		
		0.0				
11		0.0				
		0.0				
12		0.0				
		0.0				
13		0.0				
		0.0				
14		0.0				
		0.0				
15		0.0		40		
		0.0				
16		0.0				
		0.0				
17		0.0				
		0.0				
18		0.0				
		0.0				
19		0.0				
		0.0				
20		0.0		45		
		0.0				
21		0.0				
		0.0				
22		0.0				
		0.0				
23		0.0				
		0.0				
24		0.0				
		0.0				
25		0.0		57		

WELL LOCATION SKETCH (N.T.S)

WELL CONSTRUCTION DIAGRAM (N.T.S)



WHITESTONE ASSOCIATES, INC.
35 Technology Drive, Warren, NJ 07059
Phone: (908) 668-7777, Fax: (908) 754-5936

Well Number MW01 Page 2
Start Date: November 19, 2018
Completion Date: November 19, 2018

Project: Mixed-Use Site
Location: 100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, New Jersey
Geologist: A. Raposo
Driller/Helper: Jim/Nelson
Drilling Method: Hollow Stem Auger
Sampler Type: Macro-Core

Whitestone Job #: EJ1815811.000
Well Permit #: E201811986
Drilling Co.: Hawk Drilling, Inc.
Drill Rig: AMS
Type of Bit: Auger

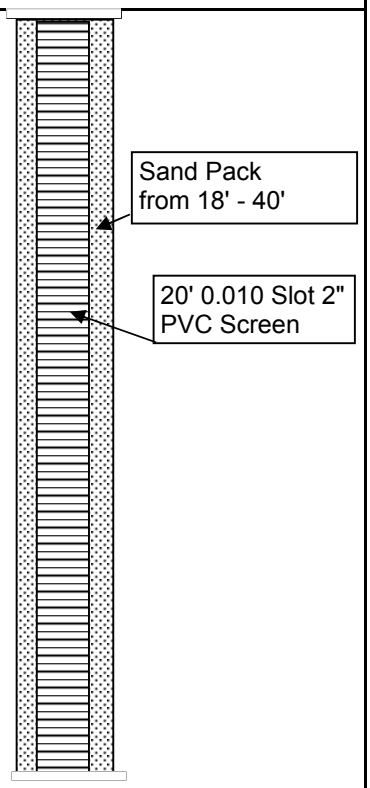
G.W. Encountered: 24.0' **G.W. Stabilized:** 31.09' **Well Depth:** 40.0'
Depth to Rim: 2.9" **Borehole Diameter:** 8" **Well Diameter:** 2"

WELL LOCATION SKETCH (N.T.S)

Solid Riser/Casing: 0.0' - 20.0'
Screen Interval/Screen Type: 20.0' - 40.0' / 0.010 Slot
Grout: 0.0' - 18.0' **Sand Pack/Open Borehole:** 18.0' - 40.0'

DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0	RECOVERY (INCHES)	SOIL TYPE	SOIL/GEOLOGICAL DESCRIPTION
26–30		0.0		58		
31–34		0.0				
35–40		0.0		56 / 50	SM	Yellowish-Brown Silty SAND
41–50						Monitor Well MW01 Completed to 40.0 fbgs Soil Sample: 9999-23-MW01-SL01-11192018 collected from 23.5 fbgs to 24.0 fbgs at 10:00

WELL CONSTRUCTION DIAGRAM (N.T.S)



WHITESTONE ASSOCIATES, INC.
35 Technology Drive, Warren, NJ 07059
Phone: (908) 668-7777, Fax: (908) 754-5936

Well Number	MW02
Start Date:	November 19, 2018
Completion Date:	November 20, 2018

Project:	Mixed-Use Site	**Whitestone Job #:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, New Jersey	**Well Permit #:**	E201811987
Geologist:	A. Raposo	**Drilling Co.:**	Hawk Drilling, Inc.
Driller/Helper:	Jim/Nelson	**Drill Rig:**	AMS
Drilling Method:	Hollow Stem Auger	**Type of Bit:**	Auger
Sampler Type:	Macro-Core		

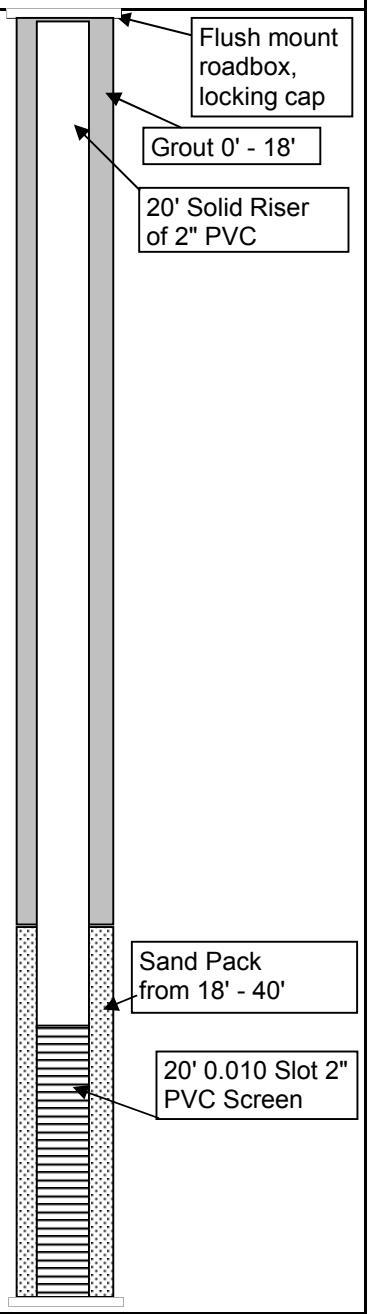
G.W. Encountered: 30.0' **G.W. Stabilized:** 33.71' **Well Depth:** 40.0'
Depth to Rim: 2.8" **Borehole Diameter:** 8" **Well Diameter:** 2"

WELL LOCATION SKETCH (N.T.S)

Solid Riser/Casing: 0.0' - 20.0'
Screen Interval/Screen Type: 20.0' - 40.0' / 0.010 Slot
Grout: 0.0' - 18.0' **Sand Pack/Open Borehole:** 18.0' - 40.0'

DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0	RECOVERY (INCHES)	SOIL TYPE	SOIL/GEOLOGICAL DESCRIPTION
		0.0			TS	10 Inches of Dark Brown Topsoil
1		0.0			SP	Yellow-Brown Poorly-Graded Coarse SAND with Trace Gravel
		0.0				
2		0.0				
		0.0				
3		0.0				
		0.0				
4		0.0				
		0.0				
5		0.0				
		0.0				
6		0.0				
		0.0				
7		0.0				
		0.0				
8		0.0				
		0.0				
9		0.0				
		0.0				
10		0.0				
		0.0				
11		0.0				
		0.0				
12		0.0				
		0.0				
13		0.0				
		0.0				
14		0.0				
		0.0				
15		0.0				
		0.0				
16		0.0				
		0.0				
17		0.0				
		0.0				
18		0.0				
		0.0				
19		0.0				
		0.0				
20		0.0				
		0.0				
21		0.0				
		0.0				
22		0.0				
		0.0				
23		0.0				
		0.0				
24		0.0				
		0.0				
25		0.0				

WELL CONSTRUCTION DIAGRAM (N.T.S)



WHITESTONE ASSOCIATES, INC.
35 Technology Drive, Warren, NJ 07059
Phone: (908) 668-7777, Fax: (908) 754-5936

Well Number MW02 Page 2
Start Date: November 19, 2018
Completion Date: November 20, 2018

Project: Mixed-Use Site
Location: 100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, New Jersey
Geologist: A. Raposo
Driller/Helper: Jim/Nelson
Drilling Method: Hollow Stem Auger
Sampler Type: Macro-Core

Whitestone Job #: EJ1815811.000
Well Permit #: E201811987
Drilling Co.: Hawk Drilling, Inc.
Drill Rig: AMS
Type of Bit: Auger

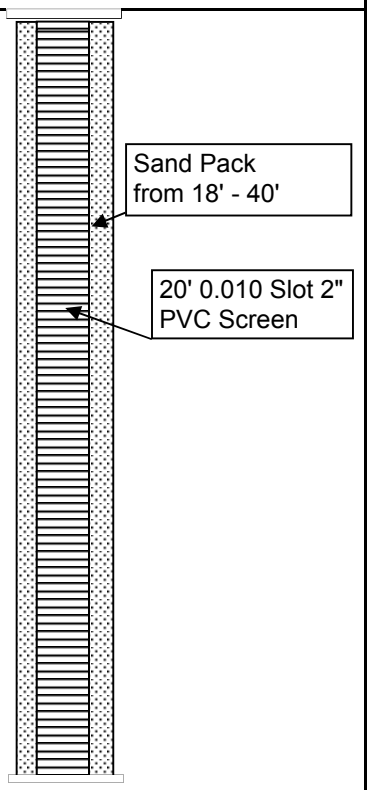
G.W. Encountered: 30.0' **G.W. Stabilized:** 33.71' **Well Depth:** 40.0'
Depth to Rim: 2.8' **Borehole Diameter:** 8" **Well Diameter:** 2"

WELL LOCATION SKETCH (N.T.S)

Solid Riser/Casing: 0.0' - 20.0'
Screen Interval/Screen Type: 20.0' - 40.0' / 0.010 Slot
Grout: 0.0' - 18.0' **Sand Pack/Open Borehole:** 18.0' - 40.0'

DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0	RECOVERY (INCHES)	SOIL TYPE	SOIL/GEOLOGICAL DESCRIPTION
26–40		0.0				
35		0.0			SM	Yellowish-Brown Silty SAND
40		0.0				Monitor Well MW02 Completed to 40.0 fbgs Soil Sample: 9999-23-MW02-SL01-11192018 collected from 29.5 fbgs to 30.0 fbgs at 13:20

WELL CONSTRUCTION DIAGRAM (N.T.S)



WHITESTONE ASSOCIATES, INC.
35 Technology Drive, Warren, NJ 07059
Phone: (908) 668-7777, Fax: (908) 754-5936

Well Number	MW03
Start Date:	November 20, 2018
Completion Date:	November 20, 2018

Project:	Mixed-Use Site	**Whitestone Job #:**	EJ1815811.000
Location:	100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, New Jersey	**Well Permit #:**	E201811988
Geologist:	A. Raposo	**Drilling Co.:**	Hawk Drilling, Inc.
Driller/Helper:	Jim/Nelson	**Drill Rig:**	AMS
Drilling Method:	Hollow Stem Auger	**Type of Bit:**	Auger
Sampler Type:	Macro-Core		

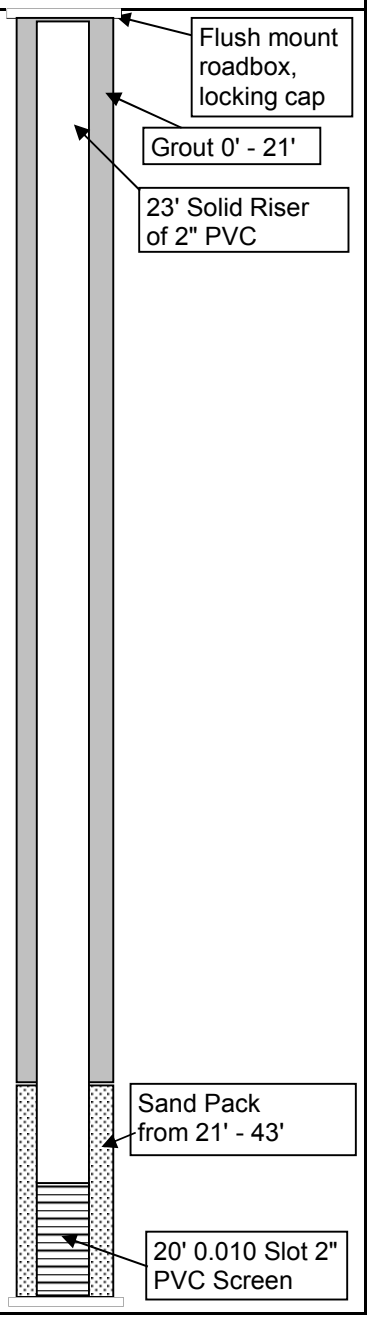
G.W. Encountered: 35.0' **G.W. Stabilized:** 35.07' **Well Depth:** 43.0'
Depth to Rim: 2.5" **Borehole Diameter:** 8" **Well Diameter:** 2"

Solid Riser/Casing: 0.0' - 23.0'
Screen Interval/Screen Type: 23.0' - 43.0' / 0.010 Slot
Grout: 0.0' - 21.0' **Sand Pack/Open Borehole:** 21.0' - 43.0'

DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0	RECOVERY (INCHES)	SOIL TYPE	SOIL/GEOLOGICAL DESCRIPTION
0		0.0			TS	10 Inches of Dark Brown Topsoil
1		0.0			FILL	Dark Brown Poorly-Graded Coarse SAND, Trace Silt
		0.0				
2		0.0				
		0.0				
3		0.0				
		0.0				
4		0.0				
		0.0				Dark Brown Silty SAND
5		0.0				
		0.0				
6		0.0			SP	Yellowish-Brown Poorly-Graded Coarse Sand, Trace Gravel
		0.0				
7		0.0				
		0.0				
8		0.0				
		0.0				
9		0.0				
		0.0				
10		0.0				
		0.0				
11		0.0				
		0.0				
12		0.0				
		0.0				
13		0.0				
		0.0				
14		0.0				
		0.0				
15		0.0				
		0.0				
16		0.0				
		0.0				
17		0.0				
		0.0				
18		0.0				
		0.0				
19		0.0				
		0.0				
20		0.0				
		0.0				
21		0.0				
		0.0				
22		0.0				
		0.0				
23		0.0				
		0.0				
24		0.0				
		0.0				
25		0.0				

WELL LOCATION SKETCH (N.T.S)

WELL CONSTRUCTION DIAGRAM (N.T.S)



WHITESTONE ASSOCIATES, INC.
35 Technology Drive, Warren, NJ 07059
Phone: (908) 668-7777, Fax: (908) 754-5936

Well Number MW03 Page 2
Start Date: November 20, 2018
Completion Date: November 20, 2018

Project: Mixed-Use Site
Location: 100 & 108 Egg Harbor Road, 203 & 218 Blackwood Barnsboro Road, Washington & Deptford Townships, New Jersey
Geologist: A. Raposo
Driller/Helper: Jim/Nelson
Drilling Method: Hollow Stem Auger
Sampler Type: Macro-Core

Whitestone Job #: EJ1815811.000
Well Permit #: E201811988
Drilling Co.: Hawk Drilling, Inc.
Drill Rig: AMS
Type of Bit: Auger

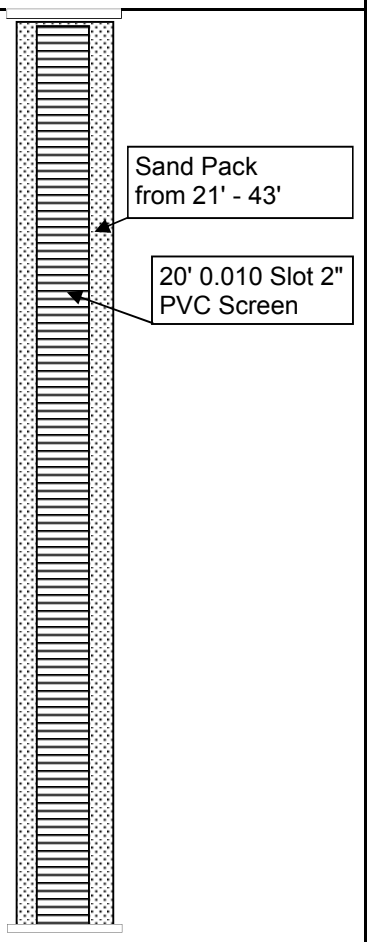
G.W. Encountered: 35.0' **G.W. Stabilized:** 35.07' **Well Depth:** 43.0'
Depth to Rim: 2.5" **Borehole Diameter:** 8" **Well Diameter:** 2"

WELL LOCATION SKETCH (N.T.S)

Solid Riser/Casing: 0.0' - 23.0'
Screen Interval/Screen Type: 23.0' - 43.0' / 0.010 Slot
Grout: 0.0' - 21.0' **Sand Pack/Open Borehole:** 21.0' - 43.0'

DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0	RECOVERY (INCHES)	SOIL TYPE	SOIL/GEOLOGICAL DESCRIPTION
26–43		0.0				Trace Silt Starting at 30.0 fbgs
36–43		0.0			ML	Yellowish-Brown Sandy SILT
43						Monitor Well MW03 Completed to 43.0 fbgs
44						Soil Sample: 9999-23-MW03-SL02-11202018 collected from 5.0 fbgs to 5.5 fbgs at 08:30
46						Soil Sample: 9999-23-MW03-SL01-11202018 collected from 34.5 fbgs to 35.0 fbgs at 09:00

WELL CONSTRUCTION DIAGRAM (N.T.S)



WHITESTONE ASSOCIATES, INC.

ATTACHMENT B
Laboratory Analytical Data Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 200-46373-1

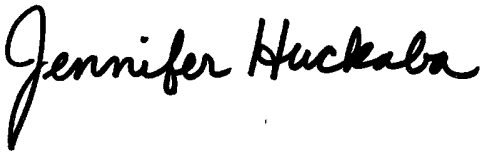
SDG Number: EJ1815811

Job Description: Wawa 9999-23

Contract Number: No Number

For:
Whitestone Associates, Inc.
35 Technology Dr
Warren, NJ 07059

Attention: Mr. Chris Seib



Approved for release.
Jennifer Huckaba
Project Manager II
12/24/2018 12:58 PM

Jennifer Huckaba, Project Manager II
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5042
jennifer.huckaba@testamericainc.com
12/24/2018

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

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TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Client Project Manager: Chris Seib	Samples Collected By: Anthony Raposo	COC No: 1 of 1 COCs
Company Name: Whitestone Associates, Inc.	Phone: (908) 668-7777		
Address: 35 Technology Drive	Email: CSeib@whitestoneassoc.com		For Lab Use Only:
City/State/Zip: Warren / NJ / 07059	Site Contact: Anthony Raposo		Walk-in Client:
Phone: (908) 668-7777	Tel/Fax (908) 668-7777		Lab Sampling:
FAX:	Anaylsis Turnaround Time		Job / SDG No.:
Project Name: EJ1815811	Standard (Specific): 5-Day		(See below for Add'l Items)
Site/Location: Washington, NJ	Rush (Specifiy):		
P O #			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum In Field, 'Hg (Start)'	Canister Vacuum In Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes sectio	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VP01-SV01-11202018	11/20/18	11:27	11:32	-27	-4	6121	3359	X										X				

200-46373 Chain of Custody

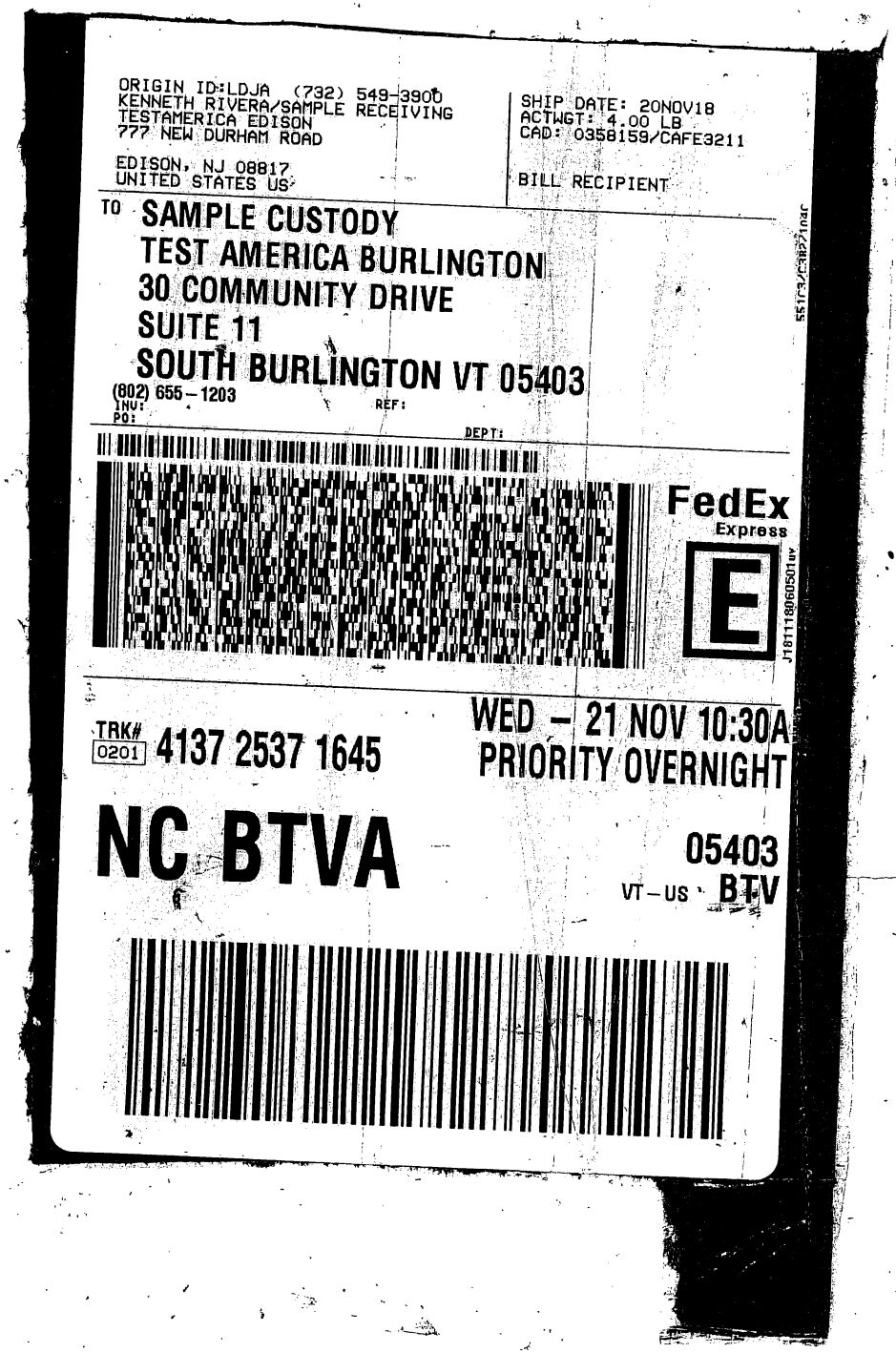
	Temperature (Fahrenheit)			
Start	Interior	Ambient	46	
Stop			46	

	Pressure (inches of Hg)			
Start	Interior	Ambient		
Stop				

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time: 11/20/18 1730	Samples Received by:	
Samples Relinquished by:	Date / Time: 11/20/18 1800	Received by:	
Relinquished by:	Date / Time:	Received by: TABU	11/26/18 0850
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 2.5, dated 9/22/2017



ORIGIN ID:LDJA (732) 549-3900
KENNETH RIVERA/SAMPLE RECEIVING
TESTAMERICA EDISON
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 20NOV18
ACTWGT: 4.00 LB
CAD: 0358159/CAFE3211

BILL RECIPIENT

TO SAMPLE CUSTODY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203
INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0201 4137 2537 1645

WED - 21 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT - US BTV

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: Whitestone Associates, Inc.

Job Number: 200-46373-1
SDG Number: EJ1815811

Login Number: 46373
List Number: 1
Creator: Mohn, Taylor J

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
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.	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL1w_00196	12/07/18	09/11/18	Nitrogen, Lot 12	15.463 L	ATTO15CAL6w_00158	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,3-Trichlorobenzene	0.20044 ppb v/v
							1,2,3-Trichloropropane	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Butanone (MEK)	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
							2-Hexanone	0.20044 ppb v/v
							2-Methyl-2-propanol	0.20044 ppb v/v
							2-Methylbutane	0.20044 ppb v/v
							3-Chloro-1-propene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	0.20044 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.20044 ppb v/v
							Acetone	0.20044 ppb v/v
							Acetonitrile	0.20044 ppb v/v
							Acrolein	0.20044 ppb v/v
							Acrylonitrile	0.20044 ppb v/v
							Alpha Methyl Styrene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
							Benzyl chloride	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butadiene	0.20044 ppb v/v
							Butane	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodibromomethane	0.20044 ppb v/v
							Chlorodifluoromethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,2-Dichloroethene	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dibromomethane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Dodecane	0.20044 ppb v/v
							Ethyl acetate	0.20044 ppb v/v
							Ethyl ether	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							Isopropylbenzene	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v
							n-Butanol	0.20044 ppb v/v
							n-Butylbenzene	0.20044 ppb v/v
							n-Decane	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							n-Nonane	0.20044 ppb v/v
							n-Octane	0.20044 ppb v/v
							N-Propylbenzene	0.20044 ppb v/v
							Naphthalene	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentane	0.20044 ppb v/v
							Propene	0.20044 ppb v/v
							sec-Butylbenzene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							tert-Butylbenzene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,2-Dichloroethene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Undecane	0.20044 ppb v/v
							Vinyl acetate	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
							Ethanol	0.400944 ppb v/v
.ATTO15CAL6w_00158	12/07/18	09/11/18	Nitrogen, Lot 1	15.463 L	ATTO15CALSTKi_00103	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Hexanone	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							Isopropylbenzene	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							N-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
					ATTO15EthCALw_00098	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00103	12/07/18	09/07/18	Nitrogen, Lot 13	37.5 L	ATTO15CALs_00031	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Hexanone	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							Isopropylbenzene	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							o-Xylene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00031	02/01/19		Linde, Lot CC-133603		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
..ATTO15EthCALw_00098	12/10/18	09/10/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthCALs_00009	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00009	09/05/21		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL2w_00271	12/07/18	09/11/18	Nitrogen, Lot 12	15.463 L	ATTO15CAL6w_00158	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,3-Trichlorobenzene	0.500453 ppb v/v
							1,2,3-Trichloropropane	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Hexanone	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							2-Methylbutane	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Isopropyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Acetonitrile	0.500453 ppb v/v
							Acrolein	0.500453 ppb v/v
							Acrylonitrile	0.500453 ppb v/v
							Alpha Methyl Styrene	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Benzyl chloride	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Butane	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodibromomethane	0.500453 ppb v/v
							Chlorodifluoromethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,2-Dichloroethene	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dibromomethane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Dodecane	0.500453 ppb v/v
							Ethyl acetate	0.500453 ppb v/v
							Ethyl ether	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							Isopropylbenzene	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Butanol	0.500453 ppb v/v
							n-Butylbenzene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							n-Nonane	0.500453 ppb v/v
							n-Octane	0.500453 ppb v/v
							N-Propylbenzene	0.500453 ppb v/v
							Naphthalene	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Pentane	0.500453 ppb v/v
							Propene	0.500453 ppb v/v
							sec-Butylbenzene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							tert-Butylbenzene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,2-Dichloroethene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Undecane	0.500453 ppb v/v
							Vinyl acetate	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
							Ethanol	5.01064 ppb v/v
					ATTO15EthCALw_00098	124 mL	Ethanol	5.01064 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.ATTO15CAL6w_00158	12/07/18	09/11/18	Nitrogen, Lot 1	15.463 L	ATTO15CALSTKi_00103	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Hexanone	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							Isopropylbenzene	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							N-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
					ATTO15EthCALw_00098	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00103	12/07/18	09/07/18	Nitrogen, Lot 13	37.5 L	ATTO15CALs_00031	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Hexanone	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							Isopropylbenzene	200 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							o-Xylene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00031	02/01/19		Linde, Lot CC-133603		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
..ATTO15EthCALw_00098	12/10/18	09/10/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthCALs_00009	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00009	09/05/21		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
.ATTO15EthCALw_00098	12/10/18	09/10/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthCALs_00009	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00009	09/05/21		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL3w_00206	12/07/18	09/10/18	Nitrogen, Lot 12	15.463 L	ATTO15CALSTKi_00103	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,3-Trichlorobenzene	4.99256 ppb v/v
							1,2,3-Trichloropropane	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Hexanone	4.99256 ppb v/v
							2-Methyl-2-propanol	4.99256 ppb v/v
							2-Methylbutane	4.99256 ppb v/v
							3-Chloro-1-propene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Isopropyltoluene	4.99256 ppb v/v
							4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Acetonitrile	4.99256 ppb v/v
							Acrolein	4.99256 ppb v/v
							Acrylonitrile	4.99256 ppb v/v
							Alpha Methyl Styrene	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Benzyl chloride	4.99256 ppb v/v

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SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Butane	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodibromomethane	4.99256 ppb v/v
							Chlorodifluoromethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,2-Dichloroethene	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dibromomethane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Dodecane	4.99256 ppb v/v
							Ethyl acetate	4.99256 ppb v/v
							Ethyl ether	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Hexane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isooctane	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							Isopropylbenzene	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Butanol	4.99256 ppb v/v
							n-Butylbenzene	4.99256 ppb v/v
							n-Decane	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							n-Nonane	4.99256 ppb v/v
							n-Octane	4.99256 ppb v/v
							N-Propylbenzene	4.99256 ppb v/v
							Naphthalene	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Pentane	4.99256 ppb v/v
							Propene	4.99256 ppb v/v
							sec-Butylbenzene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							tert-Butylbenzene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,2-Dichloroethene	4.99256 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Undecane	4.99256 ppb v/v
							Vinyl acetate	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
					ATTO15EthCALw_00098	309 mL	Ethanol	9.99159 ppb v/v
.ATTO15CALSTKi_00103	12/07/18	09/07/18	Nitrogen, Lot 13	37.5 L	ATTO15CALs_00031	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Hexanone	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							Isopropylbenzene	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							o-Xylene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00031	02/01/19		Linde, Lot CC-133603		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
.ATTO15EthCALw_00098	12/10/18	09/10/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthCALs_00009	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00009	09/05/21	Chem Service, Lot 5301900			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00714	01/01/19	10/04/18	Nitrogen, Lot 12	15.463 L	ATTO15CALSTKi_00105	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,3-Trichlorobenzene	9.99806 ppb v/v
							1,2,3-Trichloropropane	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	9.99806 ppb v/v
							2-Hexanone	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							2-Methylbutane	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Acetonitrile	9.99806 ppb v/v
							Acrolein	9.99806 ppb v/v
							Acrylonitrile	9.99806 ppb v/v
							Alpha Methyl Styrene	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Butane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chlorodifluoromethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromomethane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Dodecane	9.99806 ppb v/v
							Ethyl acetate	9.99806 ppb v/v
							Ethyl ether	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							Isopropylbenzene	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butanol	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Decane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	9.99806 ppb v/v
							n-Nonane	9.99806 ppb v/v
							n-Octane	9.99806 ppb v/v
							N-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Pentane	9.99806 ppb v/v
							Propene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Undecane	9.99806 ppb v/v
							Vinyl acetate	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
					ATTO15EthCALw_00100	464 mL	Ethanol	15.0036 ppb v/v
.ATTO15CALSTKi_00105	01/01/19	10/01/18	Nitrogen, Lot 13	37.5 L	ATTO15CALs_00031	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Hexanone	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							Isopropylbenzene	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							o-Xylene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00031	02/01/19		Linde, Lot CC-133603		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
.ATTO15EthCALw_00100	01/02/19	10/02/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthCALs_00009	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00009	09/05/21	Chem Service, Lot 5301900			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00714	01/01/19	10/04/18	Nitrogen, Lot 12	15.463 L	ATTO15CALSTKi_00105	773 mL	1,2-Dichloroethene, Total	19.9961 ppb v/v
							Xylene (total)	29.9942 ppb v/v
.ATTO15CALSTKi_00105	01/01/19	10/01/18	Nitrogen, Lot 13	37.5 L	ATTO15CALs_00031	7500 mL	1,2-Dichloroethene, Total	400 ppb v/v
							Xylene (total)	600 ppb v/v
..ATTO15CALs_00031	02/01/19	Linde, Lot CC-133603			(Purchased Reagent)		1,2-Dichloroethene, Total	2 ppm v/v
							Xylene (total)	3 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL6w_00158	12/07/18	09/11/18	Nitrogen, Lot 1	15.463 L	ATTO15CALSTKi_00103	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Hexanone	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Butane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chlorodifluoromethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							Isopropylbenzene	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							N-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
					ATTO15EthCALw_00098	1237 mL	Ethanol	39.9987 ppb v/v
.ATTO15CALSTKi_00103	12/07/18	09/07/18	Nitrogen, Lot 13	37.5 L	ATTO15CALs_00031	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Hexanone	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							Isopropylbenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							o-Xylene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00031	02/01/19		Linde, Lot CC-133603		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
.ATTO15EthCALw_00098	12/10/18	09/10/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthCALs_00009	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00009	09/05/21	Chem Service, Lot 5301900			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL7w_00079	12/07/18	09/10/18	Nitrogen, Lot 12	15.463 L	ATTO15CALSTKi_00103	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,3-Trichlorobenzene	39.9922 ppb v/v
							1,2,3-Trichloropropane	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Hexanone	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							2-Methylbutane	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Isopropyltoluene	39.9922 ppb v/v
							4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Acetonitrile	39.9922 ppb v/v
							Acrolein	39.9922 ppb v/v
							Acrylonitrile	39.9922 ppb v/v
							Alpha Methyl Styrene	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Benzyl chloride	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Butane	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chlorodifluoromethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,2-Dichloroethene	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dibromomethane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Dodecane	39.9922 ppb v/v
							Ethyl acetate	39.9922 ppb v/v
							Ethyl ether	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	39.9922 ppb v/v
							Isopropylbenzene	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Butanol	39.9922 ppb v/v
							n-Butylbenzene	39.9922 ppb v/v
							n-Decane	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							n-Nonane	39.9922 ppb v/v
							n-Octane	39.9922 ppb v/v
							N-Propylbenzene	39.9922 ppb v/v
							Naphthalene	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Pentane	39.9922 ppb v/v
							Propene	39.9922 ppb v/v
							sec-Butylbenzene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							tert-Butylbenzene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,2-Dichloroethene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Undecane	39.9922 ppb v/v
							Vinyl acetate	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
					ATTO15EthCALw_00098	3092 mL	Ethanol	99.9806 ppb v/v
.ATTO15CALSTKi_00103	12/07/18	09/07/18	Nitrogen, Lot 13	37.5 L	ATTO15CALs_00031	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Hexanone	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							Isopropylbenzene	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							o-Xylene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00031	02/01/19		Linde, Lot CC-133603		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
.ATTO15EthCALw_00098	12/10/18	09/10/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthCALs_00009	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00009	09/05/21	Chem Service, Lot 5301900			(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15LCSW_00790	12/27/18	11/28/18	Nitrogen, Lot 13	15.463 L	ATTO15EthLCSw_00069	464 mL	Ethanol	15.0036 ppb v/v
					ATTO15LCSSTKi_00097	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, Total	19.9961 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Butane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chlorodifluoromethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							Isopropylbenzene	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							N-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene (total)	29.9942 ppb v/v
.ATTO15EthLCSw_00069	12/27/18	11/27/18	Nitrogen, Lot 12	37.5 ppb	ATTO15EthLCSs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthLCSs_00008	06/21/19	Sigma Aldrich, Lot SHBH0060V			(Purchased Reagent)		Ethanol	1 mL/mL
.ATTO15LCSSTKi_00097	12/27/18	11/27/18	Nitrogen, Lot 12	37.5 L	ATTO15LCSs_00024	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, Total	400 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Hexanone	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Butane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	200 ppb v/v
							Chlorodifluoromethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							Isopropylbenzene	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							o-Xylene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene (total)	600 ppb v/v
..ATTO15LCSs_00024	02/01/19		Spectra Gases, Lot CC-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, Total	2 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Hexanone	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Butane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chlorodifluoromethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							o-Xylene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene (total)	3 ppm v/v
ATTO15XISs_00002							1,2-Dichloroethene, Total	
							1,4-Difluorobenzene	100 ppb v/v
							BFB	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v
							Cyclotrisiloxane, hexamethyl-	
							Total Alkanes	
							Xylene (total)	

Method Summary

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 200-46373-1
SDG: EJ1815811

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

CASE NARRATIVE

Client: Whitestone Associates, Inc.

Project: Wawa 9999-23

Report Number: 200-46373-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to 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.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/26/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

VOLATILE ORGANIC COMPOUNDS

Sample 9999-23 VP01-SV01-11202018 (200-46373-1) was analyzed for volatile organic compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/12/2018.

1,4-Dichlorobenzene was detected in method blank MB 200-138095/4 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sample 9999-23 VP01-SV01-11202018 (200-46373-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Instrument ID: CHX.i Analysis Batch Number: 137920

Lab Sample ID: IC 200-137920/4 Client Sample ID:

Date Analyzed: 12/07/18 22:39 Lab File ID: 33526-04.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	6.66	Incomplete Integration	guazzonig	12/10/18 10:36
Methylene Chloride	8.90	Incomplete Integration	guazzonig	12/10/18 10:36
Acrylonitrile	9.53	Incomplete Integration	guazzonig	12/10/18 10:36
cis-1,2-Dichloroethene	11.37	Incomplete Integration	guazzonig	12/10/18 10:36
Chloroform	11.96	Incomplete Integration	guazzonig	12/10/18 10:37
Cyclohexane	12.20	Incomplete Integration	guazzonig	12/10/18 10:37
1,2-Dichloropropane	14.63	Incomplete Integration	guazzonig	12/10/18 10:37
1,4-Dioxane	14.86	Incomplete Integration	guazzonig	12/10/18 10:37
Dichlorobromomethane	15.13	Incomplete Integration	guazzonig	12/10/18 10:37
1,1,2-Trichloroethane	17.44	Incomplete Integration	guazzonig	12/10/18 10:37
Methyl Butyl Ketone (2-Hexanone)	17.86	Incomplete Integration	guazzonig	12/10/18 10:37
Ethylbenzene	19.47	Incomplete Integration	guazzonig	12/10/18 10:38
m-Xylene & p-Xylene	19.73	Incomplete Integration	guazzonig	12/10/18 10:38
1,3,5-Trimethylbenzene	22.02	Incomplete Integration	guazzonig	12/10/18 10:38
4-Ethyltoluene	22.12	Incomplete Integration	guazzonig	12/10/18 10:38

Lab Sample ID: IC 200-137920/5 Client Sample ID:

Date Analyzed: 12/07/18 23:32 Lab File ID: 33526-05.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	7.23	Incomplete Integration	guazzonig	12/10/18 10:38
m-Xylene & p-Xylene	19.73	Incomplete Integration	guazzonig	12/10/18 10:39
1,3,5-Trimethylbenzene	22.02	Incomplete Integration	guazzonig	12/10/18 10:39
4-Ethyltoluene	22.12	Incomplete Integration	guazzonig	12/10/18 10:39

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Instrument ID: CHX.i Analysis Batch Number: 137920

Lab Sample ID: IC 200-137920/6 Client Sample ID:

Date Analyzed: 12/08/18 00:25 Lab File ID: 33526-06.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	12.20	Incomplete Integration	guazzonig	12/10/18 10:40
Ethylbenzene	19.48	Incomplete Integration	guazzonig	12/10/18 10:40
1,3,5-Trimethylbenzene	22.02	Incomplete Integration	guazzonig	12/10/18 10:40
4-Ethyltoluene	22.12	Incomplete Integration	guazzonig	12/10/18 10:40

Lab Sample ID: IC 200-137920/7 Client Sample ID:

Date Analyzed: 12/08/18 01:16 Lab File ID: 33526-07.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trimethylbenzene	22.02	Incomplete Integration	guazzonig	12/10/18 10:41
4-Ethyltoluene	22.12	Incomplete Integration	guazzonig	12/10/18 10:41

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Instrument ID: CHX.i Analysis Batch Number: 138095

Lab Sample ID: MB 200-138095/4 Client Sample ID:

Date Analyzed: 12/12/18 16:19 Lab File ID: 33669-04.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	bunmaa	12/13/18 12:29
3-Chloro-1-propene		Invalid Compound ID	bunmaa	12/13/18 12:28
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	bunmaa	12/13/18 12:30
Benzene		Invalid Compound ID	bunmaa	12/13/18 12:29
Butadiene		Invalid Compound ID	bunmaa	12/13/18 12:27
Carbon disulfide		Invalid Compound ID	bunmaa	12/13/18 12:28
Chloromethane		Invalid Compound ID	bunmaa	12/13/18 12:27
cis-1,3-Dichloropropene		Invalid Compound ID	bunmaa	12/13/18 12:29
Hexachlorobutadiene		Invalid Compound ID	bunmaa	12/13/18 12:35
Methylene Chloride		Invalid Compound ID	bunmaa	12/13/18 12:28
n-Heptane		Invalid Compound ID	bunmaa	12/13/18 12:29
Tetrachloroethene		Invalid Compound ID	bunmaa	12/13/18 12:31
Tetrahydrofuran		Invalid Compound ID	bunmaa	12/13/18 12:29
Toluene		Invalid Compound ID	bunmaa	12/13/18 12:30
trans-1,3-Dichloropropene		Invalid Compound ID	bunmaa	12/13/18 12:31
m-Xylene & p-Xylene	19.72	Assign Peak	bunmaa	12/13/18 12:32
1,3,5-Trimethylbenzene	22.03	Assign Peak	bunmaa	12/13/18 12:33
4-Ethyltoluene	22.12	Assign Peak	bunmaa	12/13/18 12:33
Naphthalene	26.87	Assign Peak	bunmaa	12/13/18 12:35

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Instrument ID: CHX.i Analysis Batch Number: 138095

Lab Sample ID: 200-46373-1 Client Sample ID: 9999-23 VP01-SV01-11202018

Date Analyzed: 12/12/18 18:17 Lab File ID: 33669-06.D GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	8.92	Assign Peak	bunmaa	12/13/18 12:44
1,1,2,2-Tetrachloroethane		Invalid Compound ID	bunmaa	12/13/18 12:47
1,1,2-Trichloro-1,2,2-trifluoroethane		Invalid Compound ID	bunmaa	12/13/18 12:43
2-Chlorotoluene		Invalid Compound ID	bunmaa	12/13/18 12:47
3-Chloro-1-propene		Invalid Compound ID	bunmaa	12/13/18 12:43
Bromomethane		Invalid Compound ID	bunmaa	12/13/18 12:43
Butadiene		Invalid Compound ID	bunmaa	12/13/18 12:43
Chlorobenzene		Invalid Compound ID	bunmaa	12/13/18 12:46
Chloroform		Invalid Compound ID	bunmaa	12/13/18 12:44
Chloromethane		Invalid Compound ID	bunmaa	12/13/18 12:42
cis-1,2-Dichloroethene		Invalid Compound ID	bunmaa	12/13/18 12:44
Dichlorodifluoromethane		Invalid Compound ID	bunmaa	12/13/18 12:42
Ethylene Dibromide		Invalid Compound ID	bunmaa	12/13/18 12:46
Hexachlorobutadiene		Invalid Compound ID	bunmaa	12/13/18 12:49
tert-Butylbenzene		Invalid Compound ID	bunmaa	12/13/18 12:47
Tetrahydrofuran		Invalid Compound ID	bunmaa	12/13/18 12:44
trans-1,3-Dichloropropene		Invalid Compound ID	bunmaa	12/13/18 12:45
Trichlorofluoromethane		Invalid Compound ID	bunmaa	12/13/18 12:43
Vinyl chloride		Invalid Compound ID	bunmaa	12/13/18 12:43
Cyclohexane	12.20	Assign Peak	bunmaa	12/13/18 12:45
Isooctane	12.86	Assign Peak	bunmaa	12/13/18 12:45
Styrene	20.57	Assign Peak	bunmaa	12/13/18 12:46
1,3-Dichlorobenzene	23.15	Assign Peak	bunmaa	12/13/18 12:48
1,4-Dichlorobenzene	23.27	Assign Peak	bunmaa	12/13/18 12:48

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Retention Time Corrected Results	Retention Time NT Only	QAS Decision	Foot-notes
TO-15			*ug/m3*					
Acetone	67-64-1	58.08	62	U				
Benzene	71-43-2	78.11	2.3	U				
Bromoform	75-25-2	252.75	8.9	U				
Bromomethane	74-83-9	94.94	2.4	U				
Butadiene	106-99-0	54.09	1.4	U				
2-Butanone (MEK)	78-93-3	72.11	30					
Carbon disulfide	75-15-0	76.14	3.7	U				
Carbon tetrachloride	56-23-5	153.81	1.5	U				
Chlorobenzene	108-90-7	112.56	1.8	U				
Chlorodibromomethane	124-48-1	208.29	6.0	U				
Chloroethane	75-00-3	64.52	5.5	U				
Chloroform	67-66-3	119.38	2.5	U				
Chloromethane	74-87-3	50.49	5.2	U				
3-Chloro-1-propene	107-05-1	76.53	8.5	U				
2-Chlorotoluene	95-49-8	126.59	3.7	U				
cis-1,2-Dichloroethene	156-59-2	96.94	1.5	U				
cis-1,3-Dichloropropene	10061-01-5	110.97	4.4	U				
Cyclohexane	110-82-7	84.16	2.2	U				
1,3-Dichlorobenzene	541-73-1	147.00	4.9	U				
1,4-Dichlorobenzene	106-46-7	147.00	3.9	U				
1,2-Dichlorobenzene	95-50-1	147.00	4.3	U				
Dichlorobromomethane	75-27-4	163.83	6.3	U				
Dichlorodifluoromethane	75-71-8	120.91	9.9	U				
1,1-Dichloroethane	75-34-3	98.96	1.1	U				
1,2-Dichloroethane	107-06-2	98.96	2.5	U				
1,1-Dichloroethene	75-35-4	96.94	1.3	U				
1,2-Dichloropropane	78-87-5	112.99	5.5	U				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	170.92	4.8	U				
1,4-Dioxane	123-91-1	88.11	47	U				
Ethanol	64-17-5	46.07	23	U				
Ethylbenzene	100-41-4	106.17	8.5	J				
Ethylene Dibromide	106-93-4	187.87	5.3	U				
4-Ethyltoluene	622-96-8	120.20	3.4	U				
Hexachlorobutadiene	87-68-3	260.76	8.7	U				
Hexane	110-54-3	86.17	5.6	U				
Isooctane	540-84-1	114.23	4.1	U				
Isopropyl alcohol	67-63-0	60.10	44	U				
Methylene Chloride	75-09-2	84.93	6.9	U				
Methyl methacrylate	80-62-6	100.12	9.0	U				
4-Methyl-2-pentanone (MIBK)	108-10-1	100.16	15	U				
2-Methyl-2-propanol	75-65-0	74.12	45	U				
Methyl tert-butyl ether	1634-04-4	88.15	2.2	U				
m-Xylene & p-Xylene	179601-23-1	106.17	23					
Naphthalene	91-20-3	128.17	16	U				
n-Heptane	142-82-5	100.21	5.7	U				
o-Xylene	95-47-6	106.17	10					
Styrene	100-42-5	104.15	3.7	U				

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Foot-notes
TO-15			*ug/m3*					
tert-Butylbenzene	98-06-6	134.22	3.2	U				
1,1,2,2-Tetrachloroethane	79-34-5	167.85	5.2	U				
Tetrachloroethene	127-18-4	165.83	7.9	J				
Tetrahydrofuran	109-99-9	72.11	77	U				
Toluene	108-88-3	92.14	9.9					
trans-1,2-Dichloroethene	156-60-5	96.94	2.9	U				
trans-1,3-Dichloropropene	10061-02-6	110.97	5.4	U				
1,2,4-Trichlorobenzene	120-82-1	181.45	18	U				
1,1,1-Trichloroethane	71-55-6	133.41	3.7	U				
1,1,2-Trichloroethane	79-00-5	133.41	4.3	U				
Trichloroethene	79-01-6	131.39	1.6	U				
Trichlorofluoromethane	75-69-4	137.37	3.5	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	187.38	2.4	U				
1,3,5-Trimethylbenzene	108-67-8	120.20	2.9	U				
1,2,4-Trimethylbenzene	95-63-6	120.20	3.9	U				
Vinyl bromide	593-60-2	106.96	2.4	U				
Vinyl chloride	75-01-4	62.50	1.0	U				

Tenatively Identified Compounds

Cyclotrisiloxane, hexamethyl-	541-05-9		NaN	J N		17.02		

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Retention Time Corrected Results	Retention Time NT Only	QAS Decision	Foot-notes
TO-15			*ug/m3*					
Acetone	67-64-1	58.08	6.2	U				
Benzene	71-43-2	78.11	0.23	U				
Bromoform	75-25-2	252.75	0.89	U				
Bromomethane	74-83-9	94.94	0.24	U				
Butadiene	106-99-0	54.09	0.14	U				
2-Butanone (MEK)	78-93-3	72.11	0.59	U				
Carbon disulfide	75-15-0	76.14	0.37	U				
Carbon tetrachloride	56-23-5	153.81	0.15	U				
Chlorobenzene	108-90-7	112.56	0.18	U				
Chlorodibromomethane	124-48-1	208.29	0.60	U				
Chloroethane	75-00-3	64.52	0.55	U				
Chloroform	67-66-3	119.38	0.25	U				
Chloromethane	74-87-3	50.49	0.52	U				
3-Chloro-1-propene	107-05-1	76.53	0.85	U				
2-Chlorotoluene	95-49-8	126.59	0.37	U				
cis-1,2-Dichloroethene	156-59-2	96.94	0.15	U				
cis-1,3-Dichloropropene	10061-01-5	110.97	0.44	U				
Cyclohexane	110-82-7	84.16	0.22	U				
1,3-Dichlorobenzene	541-73-1	147.00	0.49	U				
1,4-Dichlorobenzene	106-46-7	147.00	0.464	J				
1,2-Dichlorobenzene	95-50-1	147.00	0.43	U				
Dichlorobromomethane	75-27-4	163.83	0.63	U				
Dichlorodifluoromethane	75-71-8	120.91	0.99	U				
1,1-Dichloroethane	75-34-3	98.96	0.11	U				
1,2-Dichloroethane	107-06-2	98.96	0.25	U				
1,1-Dichloroethene	75-35-4	96.94	0.13	U				
1,2-Dichloropropane	78-87-5	112.99	0.55	U				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	170.92	0.48	U				
1,4-Dioxane	123-91-1	88.11	4.7	U				
Ethanol	64-17-5	46.07	2.3	U				
Ethylbenzene	100-41-4	106.17	0.32	U				
Ethylene Dibromide	106-93-4	187.87	0.53	U				
4-Ethyltoluene	622-96-8	120.20	0.34	U				
Hexachlorobutadiene	87-68-3	260.76	0.87	U				
Hexane	110-54-3	86.17	0.56	U				
Isooctane	540-84-1	114.23	0.41	U				
Isopropyl alcohol	67-63-0	60.10	4.4	U				
Methylene Chloride	75-09-2	84.93	0.69	U				
Methyl methacrylate	80-62-6	100.12	0.90	U				
4-Methyl-2-pentanone (MIBK)	108-10-1	100.16	1.5	U				
2-Methyl-2-propanol	75-65-0	74.12	4.5	U				
Methyl tert-butyl ether	1634-04-4	88.15	0.22	U				
m-Xylene & p-Xylene	179601-23-1	106.17	0.30	U				
Naphthalene	91-20-3	128.17	1.6	U				
n-Heptane	142-82-5	100.21	0.57	U				
o-Xylene	95-47-6	106.17	0.31	U				
Styrene	100-42-5	104.15	0.37	U				

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Retention Time Corrected Results	Retention Time NT Only	QAS Decision	Foot-notes
TO-15			*ug/m3*					
tert-Butylbenzene	98-06-6	134.22	0.32	U				
1,1,2,2-Tetrachloroethane	79-34-5	167.85	0.52	U				
Tetrachloroethene	127-18-4	165.83	0.20	U				
Tetrahydrofuran	109-99-9	72.11	7.7	U				
Toluene	108-88-3	92.14	0.26	U				
trans-1,2-Dichloroethene	156-60-5	96.94	0.29	U				
trans-1,3-Dichloropropene	10061-02-6	110.97	0.54	U				
1,2,4-Trichlorobenzene	120-82-1	181.45	1.8	U				
1,1,1-Trichloroethane	71-55-6	133.41	0.37	U				
1,1,2-Trichloroethane	79-00-5	133.41	0.43	U				
Trichloroethene	79-01-6	131.39	0.16	U				
Trichlorofluoromethane	75-69-4	137.37	0.35	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	187.38	0.24	U				
1,3,5-Trimethylbenzene	108-67-8	120.20	0.29	U				
1,2,4-Trimethylbenzene	95-63-6	120.20	0.39	U				
Vinyl bromide	593-60-2	106.96	0.24	U				
Vinyl chloride	75-01-4	62.50	0.10	U				
Xylene (total)	1330-20-7	106.17	0.61	U				

Tenatively Identified Compounds

Tentatively Identified Compound			None					

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
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.

Air - GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

Glossary

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

Method TO15

Volatile Organic Compounds (GC/MS) by Method TO15

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Matrix: Air Level: Low Lab File ID: 33669-03.D

Lab ID: LCS 200-138095/3 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCS CONCENTRATION (ug/m3)	LCS % REC	QC LIMITS REC	#
Acetone	23.7	24.9	105	64-136	
Benzene	31.9	30.3	95	67-127	
Bromoform	103	107	104	34-170	
Bromomethane	38.8	36.4	94	68-128	
Butadiene	22.1	21.2	96	59-125	
2-Butanone (MEK)	29.5	27.5	93	62-122	
Carbon disulfide	31.1	30.6	98	81-141	
Carbon tetrachloride	62.9	56.3	90	62-143	
Chlorobenzene	46.0	45.0	98	68-128	
Chlorodibromomethane	85.2	87.3	102	66-130	
Chloroethane	26.4	26.4	100	65-125	
Chloroform	48.8	44.8	92	69-129	
Chloromethane	20.6	20.1	97	57-126	
3-Chloro-1-propene	31.3	29.6	94	53-133	
2-Chlorotoluene	51.8	52.4	101	67-127	
cis-1,2-Dichloroethene	39.6	34.0	86	67-127	
cis-1,3-Dichloropropene	45.4	42.4	93	70-130	
Cyclohexane	34.4	33.4	97	69-129	
1,3-Dichlorobenzene	60.1	58.9	98	67-127	
1,4-Dichlorobenzene	60.1	58.1	97	66-126	
1,2-Dichlorobenzene	60.1	58.5	97	67-127	
Dichlorobromomethane	67.0	66.8	100	69-129	
Dichlorodifluoromethane	49.4	50.4	102	68-128	
1,1-Dichloroethane	40.5	37.0	91	66-126	
1,2-Dichloroethane	40.5	38.5	95	67-132	
1,1-Dichloroethene	39.6	31.9	81	67-127	
1,2-Dichloropropane	46.2	45.3	98	67-127	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	69.9	71.8	103	78-138	
1,4-Dioxane	36.0	33.2	92	66-132	
Ethanol	28.3	33.4	118	28-168	
Ethylbenzene	43.4	43.3	100	68-128	
Ethylene Dibromide	76.8	78.4	102	70-130	
4-Ethyltoluene	49.2	49.3	100	69-129	
Hexachlorobutadiene	107	93.4	88	62-130	
Hexane	35.2	34.4	98	71-131	
Isooctane	46.7	45.4	97	67-127	
Isopropyl alcohol	24.6	22.1	90	55-124	
Methylene Chloride	34.7	32.0	92	62-122	
Methyl methacrylate	40.9	41.8	102	70-130	
4-Methyl-2-pentanone (MIBK)	41.0	40.7	99	62-130	
2-Methyl-2-propanol	30.3	29.0	96	64-124	

Column to be used to flag recovery and RPD values

FORM III TO-15

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Matrix: Air Level: Low Lab File ID: 33669-03.D

Lab ID: LCS 200-138095/3 Client ID:

COMPOUND	SPIKE ADDED (ug/m3)	LCS CONCENTRATION (ug/m3)	LCS % REC	QC LIMITS REC	#
Methyl tert-butyl ether	36.0	33.2	92	67-127	
m-Xylene & p-Xylene	86.8	86.8	100	68-128	
Naphthalene	52.4	44.2	84	50-121	
n-Heptane	41.0	39.6	97	62-130	
o-Xylene	43.4	43.8	101	67-127	
Styrene	42.6	42.6	100	68-128	
tert-Butylbenzene	54.9	53.2	97	63-125	
1,1,2,2-Tetrachloroethane	68.6	71.0	103	69-129	
Tetrachloroethene	67.8	63.2	93	70-130	
Tetrahydrofuran	29.5	32.6	110	61-136	
Toluene	37.7	37.9	101	67-127	
trans-1,2-Dichloroethene	39.6	38.0	96	72-132	
trans-1,3-Dichloropropene	45.4	46.3	102	69-129	
1,2,4-Trichlorobenzene	74.2	62.9	85	59-126	
1,1,1-Trichloroethane	54.6	50.8	93	70-130	
1,1,2-Trichloroethane	54.6	54.4	100	69-129	
Trichloroethene	53.7	48.7	91	68-128	
Trichlorofluoromethane	56.2	52.6	94	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	76.6	65.3	85	68-128	
1,3,5-Trimethylbenzene	49.2	50.5	103	65-125	
1,2,4-Trimethylbenzene	49.2	49.1	100	65-125	
Vinyl bromide	43.7	42.3	97	67-127	
Vinyl chloride	25.6	25.1	98	62-125	
Xylene (total)	130	131	100	67-128	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Lab File ID: 33669-04.D Lab Sample ID: MB 200-138095/4

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

Instrument ID: CHX.i Date Analyzed: 12/12/2018 16:19

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-138095/3	33669-03.D	12/12/2018 15:27
9999-23 VP01-SV01-11202018	200-46373-1	33669-06.D	12/12/2018 18:17

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Lab File ID: 33587-C1.D BFB Injection Date: 12/07/2018

Instrument ID: CHX.i BFB Injection Time: 18:39

Analysis Batch No.: 137920

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.3	
75	30.0 - 66.0% of mass 95	51.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	8.1	
173	Less than 2.0% of mass 174	0.9	(1.2) 1
174	50.0 - 120.0% of mass 95	76.4	
175	4.0 - 9.0 % of mass 174	6.7	(8.8) 1
176	93.0 - 101.0% of mass 174	73.0	(95.5) 1
177	5.0 - 9.0% of mass 176	5.8	(8.0) 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 200-137920/4	33526-04.D	12/07/2018	22:39
	IC 200-137920/5	33526-05.D	12/07/2018	23:32
	IC 200-137920/6	33526-06.D	12/08/2018	00:25
	IC 200-137920/7	33526-07.D	12/08/2018	01:16
	ICIS 200-137920/8	33526-08.D	12/08/2018	02:09
	IC 200-137920/11	33526-11.D	12/08/2018	04:46
	IC 200-137920/15	33526-15.D	12/08/2018	13:19
	IC 200-137920/16	33526-16.D	12/08/2018	14:05
	ICV 200-137920/18	33526-18.D	12/08/2018	15:50

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Lab File ID: 33669-01.D BFB Injection Date: 12/12/2018

Instrument ID: CHX.i BFB Injection Time: 13:51

Analysis Batch No.: 138095

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	23.8	
75	30.0 - 66.0% of mass 95	53.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	8.0	
173	Less than 2.0% of mass 174	1.0	(1.4) 1
174	50.0 - 120.0% of mass 95	70.6	
175	4.0 - 9.0 % of mass 174	6.3	(9.0) 1
176	93.0 - 101.0% of mass 174	67.8	(96.1) 1
177	5.0 - 9.0% of mass 176	5.6	(8.2) 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 200-138095/2	33669-02.D	12/12/2018	14:33
	LCS 200-138095/3	33669-03.D	12/12/2018	15:27
	MB 200-138095/4	33669-04.D	12/12/2018	16:19
9999-23 VP01-SV01-11202018	200-46373-1	33669-06.D	12/12/2018	18:17

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Sample No.: ICIS 200-137920/8 Date Analyzed: 12/08/2018 02:09

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 33526-08.D Heated Purge: (Y/N) N

Calibration ID: 40775

		BCM		DFBZ		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		337354	11.84	1523649	13.68	1399059	19.29
UPPER LIMIT		472296	12.17	2133109	14.01	1958683	19.62
LOWER LIMIT		202412	11.51	914189	13.35	839435	18.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-137920/18		361861	11.84	1609352	13.68	1465444	19.29

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Sample No.: CCVIS 200-138095/2 Date Analyzed: 12/12/2018 14:33

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 33669-02.D Heated Purge: (Y/N) N

Calibration ID: 40775

		BCM		DFBZ		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		294420	11.84	1316325	13.68	1181152	19.29
UPPER LIMIT		412188	12.17	1842855	14.01	1653613	19.62
LOWER LIMIT		176652	11.51	789795	13.35	708691	18.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-138095/3		294471	11.84	1289813	13.68	1132307	19.29
MB 200-138095/4		276558	11.84	1252881	13.68	1091952	19.29
200-46373-1	9999-23 VP01-SV01-11202018	281874	11.85	1267318	13.68	1096318	19.29

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Burlington | Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: 9999-23 VP01-SV01-11202018 | Lab Sample ID: 200-46373-1

Matrix: Air | Lab File ID: 33669-06.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 11:32

Sample wt/vol: 20(mL) | Date Analyzed: 12/12/2018 18:17

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

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

Analysis Batch No.: 138095 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	62	U	120	62
71-43-2	Benzene	2.3	U	6.4	2.3
75-25-2	Bromoform	8.9	U	21	8.9
74-83-9	Bromomethane	2.4	U	7.8	2.4
106-99-0	Butadiene	1.4	U	4.4	1.4
78-93-3	2-Butanone (MEK)	30		15	5.9
75-15-0	Carbon disulfide	3.7	U	16	3.7
56-23-5	Carbon tetrachloride	1.5	U	13	1.5
108-90-7	Chlorobenzene	1.8	U	9.2	1.8
124-48-1	Chlorodibromomethane	6.0	U	17	6.0
75-00-3	Chloroethane	5.5	U	13	5.5
67-66-3	Chloroform	2.5	U	9.8	2.5
74-87-3	Chloromethane	5.2	U	10	5.2
107-05-1	3-Chloro-1-propene	8.5	U	16	8.5
95-49-8	2-Chlorotoluene	3.7	U	10	3.7
156-59-2	cis-1,2-Dichloroethene	1.5	U	7.9	1.5
10061-01-5	cis-1,3-Dichloropropene	4.4	U	9.1	4.4
110-82-7	Cyclohexane	2.2	U	6.9	2.2
541-73-1	1,3-Dichlorobenzene	4.9	U	12	4.9
106-46-7	1,4-Dichlorobenzene	3.9	U	12	3.9
95-50-1	1,2-Dichlorobenzene	4.3	U	12	4.3
75-27-4	Dichlorobromomethane	6.3	U	13	6.3
75-71-8	Dichlorodifluoromethane	9.9	U	25	9.9
75-34-3	1,1-Dichloroethane	1.1	U	8.1	1.1
107-06-2	1,2-Dichloroethane	2.5	U	8.1	2.5
75-35-4	1,1-Dichloroethene	1.3	U	7.9	1.3
78-87-5	1,2-Dichloropropane	5.5	U	9.2	5.5
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.8	U	14	4.8
123-91-1	1,4-Dioxane	47	U	180	47
64-17-5	Ethanol	23	U	94	23
100-41-4	Ethylbenzene	8.5	J	8.7	3.2
106-93-4	Ethylene Dibromide	5.3	U	15	5.3
622-96-8	4-Ethyltoluene	3.4	U	9.8	3.4
87-68-3	Hexachlorobutadiene	8.7	U	21	8.7

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

Lab Name: TestAmerica Burlington | Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: 9999-23 VP01-SV01-11202018 | Lab Sample ID: 200-46373-1

Matrix: Air | Lab File ID: 33669-06.D

Analysis Method: TO-15 | Date Collected: 11/20/2018 11:32

Sample wt/vol: 20(mL) | Date Analyzed: 12/12/2018 18:17

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

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

Analysis Batch No.: 138095 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-54-3	Hexane	5.6	U	7.0	5.6
540-84-1	Isooctane	4.1	U	9.3	4.1
67-63-0	Isopropyl alcohol	44	U	120	44
75-09-2	Methylene Chloride	6.9	U	17	6.9
80-62-6	Methyl methacrylate	9.0	U	20	9.0
108-10-1	4-Methyl-2-pentanone (MIBK)	15	U	20	15
75-65-0	2-Methyl-2-propanol	45	U	150	45
1634-04-4	Methyl tert-butyl ether	2.2	U	7.2	2.2
179601-23-1	m-Xylene & p-Xylene	23		22	3.0
91-20-3	Naphthalene	16	U	26	16
142-82-5	n-Heptane	5.7	U	8.2	5.7
95-47-6	o-Xylene	10		8.7	3.1
100-42-5	Styrene	3.7	U	8.5	3.7
98-06-6	tert-Butylbenzene	3.2	U	11	3.2
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U	14	5.2
127-18-4	Tetrachloroethene	7.9	J	14	2.0
109-99-9	Tetrahydrofuran	77	U	150	77
108-88-3	Toluene	9.9		7.5	2.6
156-60-5	trans-1,2-Dichloroethene	2.9	U	7.9	2.9
10061-02-6	trans-1,3-Dichloropropene	5.4	U	9.1	5.4
120-82-1	1,2,4-Trichlorobenzene	18	U	37	18
71-55-6	1,1,1-Trichloroethane	3.7	U	11	3.7
79-00-5	1,1,2-Trichloroethane	4.3	U	11	4.3
79-01-6	Trichloroethene	1.6	U	11	1.6
75-69-4	Trichlorofluoromethane	3.5	U	11	3.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.4	U	15	2.4
108-67-8	1,3,5-Trimethylbenzene	2.9	U	9.8	2.9
95-63-6	1,2,4-Trimethylbenzene	3.9	U	9.8	3.9
593-60-2	Vinyl bromide	2.4	U	8.7	2.4
75-01-4	Vinyl chloride	1.0	U	5.1	1.0

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: 9999-23 VP01-SV01-11202018 Lab Sample ID: 200-46373-1

Matrix: Air Lab File ID: 33669-06.D

Analysis Method: TO-15 Date Collected: 11/20/2018 11:32

Sample wt/vol: 20(mL) Date Analyzed: 12/12/2018 18:17

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 138095 Units: ug/m3

Number TICs Found: 1 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
541-05-9	Cyclotrisiloxane, hexamethyl-	17.02	NaN	J N	91%

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D
Lims ID: 200-46373-A-1
Client ID: 9999-23 VP01-SV01-11202018
Sample Type: Client
Inject. Date: 12-Dec-2018 18:17:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 10.0000
Sample Info: 200-0033669-006
Misc. Info.: 46373-1
Operator ID: GGG Instrument ID: CHX.i

Method: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 14-Dec-2018 11:17:42 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1015

First Level Reviewer: desjardinsb Date: 24-Dec-2018 10:47:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
2 Dichlorodifluoromethane	85		4.179				ND	U
3 Chlorodifluoromethane	51		4.244				ND	U
4 1,2-Dichloro-1,1,2,2-tetra	85		4.516				ND	
5 Chloromethane	50		4.704				ND	U
6 Butane	43	4.934	4.928	0.006	98	38431	0.5385	
7 Vinyl chloride	62		4.987				ND	U
8 Butadiene	54		5.078				ND	U
10 Bromomethane	94		5.870				ND	U
11 Chloroethane	64		6.127				ND	
13 Vinyl bromide	106		6.549				ND	
14 Trichlorofluoromethane	101		6.646				ND	MU
17 Ethanol	45	7.250	7.229	0.021	99	14022	0.7771	
20 1,1,2-Trichloro-1,2,2-trif	101		7.732				ND	U
21 1,1-Dichloroethene	96		7.801				ND	
22 Acetone	43	8.063	8.042	0.021	98	148334	2.24	
23 Carbon disulfide	76	8.224	8.224	0.006	98	11703	0.0985	
24 Isopropyl alcohol	45	8.341	8.315	0.026	98	62256	0.9212	
25 3-Chloro-1-propene	41		8.598				ND	U
27 Methylene Chloride	49	8.924	8.908	0.015	94	3571	0.0658	M
28 2-Methyl-2-propanol	59	9.144	9.106	0.037	94	10164	0.1181	
29 Methyl tert-butyl ether	73		9.310				ND	
31 trans-1,2-Dichloroethene	61		9.353				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
33 Hexane	57	9.738	9.732	0.006	92	11826	0.1568	
34 1,1-Dichloroethane	63		10.262				ND	
37 cis-1,2-Dichloroethene	96		11.375				ND	U
38 2-Butanone (MEK)	72	11.433	11.417	0.015	100	26980	1.00	
* 40 Chlorobromomethane	128	11.845	11.840	0.005	97	281874	10.0	
41 Tetrahydrofuran	42		11.846				ND	Ua
42 Chloroform	83		11.953				ND	MU
43 Cyclohexane	84	12.198	12.199	-0.006	86	1065	0.0166	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
44 1,1,1-Trichloroethane	97		12.225				ND	
45 Carbon tetrachloride	117		12.466				ND	
46 Isooctane	57	12.862	12.851	0.011	69	3238	0.0141	M
47 Benzene	78	12.910	12.915	-0.006	92	6890	0.0487	
48 1,2-Dichloroethane	62		13.087				ND	
49 n-Heptane	43	13.210	13.210	0.000	93	8217	0.0911	
* 50 1,4-Difluorobenzene	114	13.680	13.681	0.000	97	1267318	10.0	
53 Trichloroethene	95		14.114				ND	
54 1,2-Dichloropropane	63		14.627				ND	
55 Methyl methacrylate	69		14.745				ND	
56 1,4-Dioxane	88	14.852	14.847	0.032	86	2714	0.0949	
58 Dichlorobromomethane	83		15.125				ND	
60 cis-1,3-Dichloropropene	75		15.976				ND	
61 4-Methyl-2-pentanone (MIBK	43	16.243	16.232	0.016	94	14528	0.1277	
65 Toluene	92	16.521	16.522	-0.006	94	24761	0.2636	
66 trans-1,3-Dichloropropene	75		17.078				ND	U
67 1,1,2-Trichloroethane	83		17.436				ND	
68 Tetrachloroethene	166	17.537	17.543	-0.006	91	8254	0.1161	
69 2-Hexanone	43		17.843				ND	
71 Chlorodibromomethane	129		18.169				ND	
72 Ethylene Dibromide	107		18.436				ND	U
* 74 Chlorobenzene-d5	117	19.292	19.292	0.000	92	1096318	10.0	
75 Chlorobenzene	112		19.346				ND	U
76 Ethylbenzene	91	19.485	19.474	0.005	98	38995	0.1958	
S 73 Xylenes, Total	106				0		0.7569	
78 m-Xylene & p-Xylene	106	19.715	19.715	-0.005	0	39771	0.5264	
79 o-Xylene	106	20.523	20.528	-0.005	98	17159	0.2305	
80 Styrene	104	20.571	20.582	-0.005	8	1216	0.0104	M
81 Bromoform	173		20.983				ND	
82 Isopropylbenzene	105	21.159	21.148	0.005	50	2344	0.0111	M
84 1,1,2,2-Tetrachloroethane	83		21.780				ND	U
85 N-Propylbenzene	91	21.844	21.833	0.005	97	5891	0.0226	
90 1,3,5-Trimethylbenzene	105	22.015	22.026	0.000	85	5214	0.0244	
89 2-Chlorotoluene	91		22.037				ND	U
88 4-Ethyltoluene	105	22.117	22.111	0.000	86	5256	0.0296	
92 tert-Butylbenzene	119		22.588				ND	U
93 1,2,4-Trimethylbenzene	105	22.684	22.678	0.000	97	12033	0.0675	
94 sec-Butylbenzene	105		22.903				ND	MU
95 4-Isopropyltoluene	119		23.096				ND	
96 1,3-Dichlorobenzene	146	23.149	23.139	0.010	48	1495	0.0134	Ma
97 1,4-Dichlorobenzene	146	23.272	23.278	-0.001	83	2097	0.0195	M
98 Benzyl chloride	91	23.476	23.464	0.006	91	2058	0.0149	M
100 n-Butylbenzene	91		23.674				ND	Ua
101 1,2-Dichlorobenzene	146	23.823	23.818	0.010	68	1372	0.0126	
103 1,2,4-Trichlorobenzene	180	26.370	26.357	0.005	87	3403	0.0483	
104 Hexachlorobutadiene	225		26.547				ND	U
105 Naphthalene	128	26.873	26.867	0.005	97	7769	0.0458	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

TestAmerica Burlington
Tentatively Identified Quantitation Report

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Lims ID:	200-46373-A-1				
Client ID:	9999-23 VP01-SV01-11202018				
Sample Type:	Client				
Inject. Date:	12-Dec-2018 18:17:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Sample Info:	200-0033669-006				
Misc. Info.:	46373-1				
Operator ID:	GGG	Instrument ID:	CHX.i		
Method:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\TO15_MasterMethod_X.m.m				
Limit Group:	AI_TO15_ICAL				
Last Update:	14-Dec-2018 11:17:42	Calib Date:	08-Dec-2018 14:05:30		
Tic RT Window:	0.000 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\chromna\Burlington\Database\NIST14.L				
Min. Match:	1				
Column 1 :	RTX-624 (0.32 mm)		Det: MS SCAN		
Process Host:	CTX1015				
First Level Reviewer: desjardinsb		Date:	24-Dec-2018 10:47:07		

Tentative Identified Compound Results

RT	Area	Amount ppb v/v	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
	541-05-9	Cyclotrisiloxane, hexamethyl-						
17.019	441504	1.10	74	91	85992	C6H18O3Si3	222	

Quantitation Compounds

Compound	RT	Area	Amount ppb v/v
* 74 Chlorobenzene-d5	19.287	4004025	10.0

QC Flag Legend

Processing Flags

Reagents:

ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

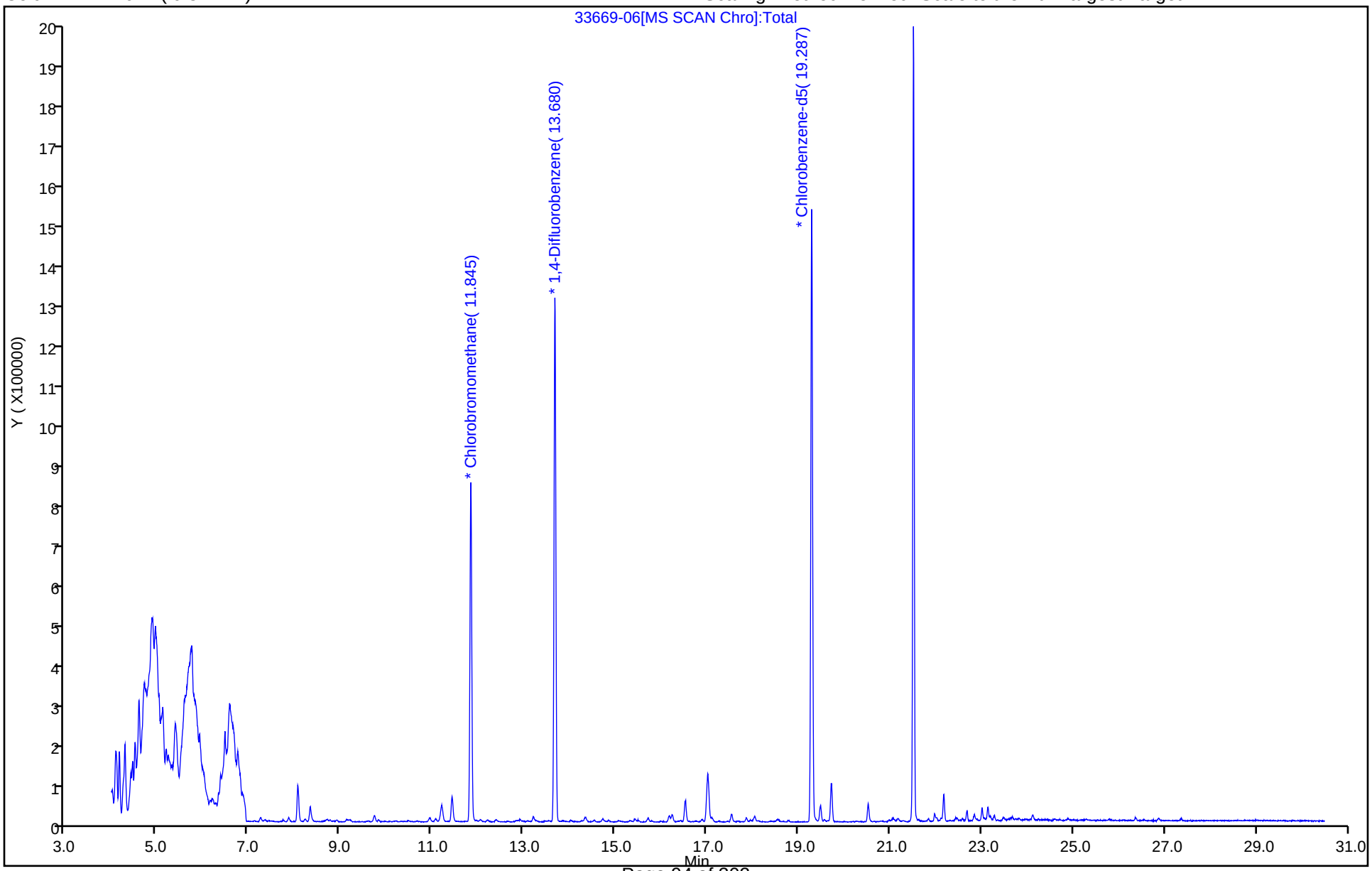
Report Date: 24-Dec-2018 10:47:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D

Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1	Worklist Smp#:	6
Client ID:	9999-23 VP01-SV01-11202018				
Purge Vol:	200.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	5
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



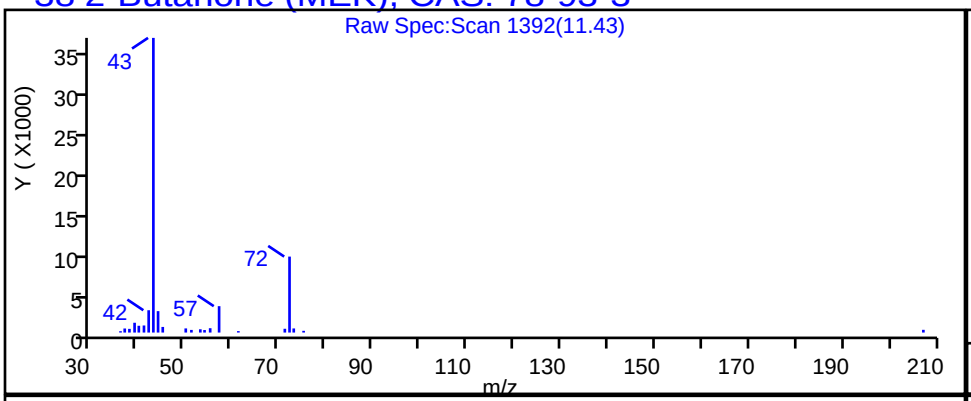
Report Date: 24-Dec-2018 10:47:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

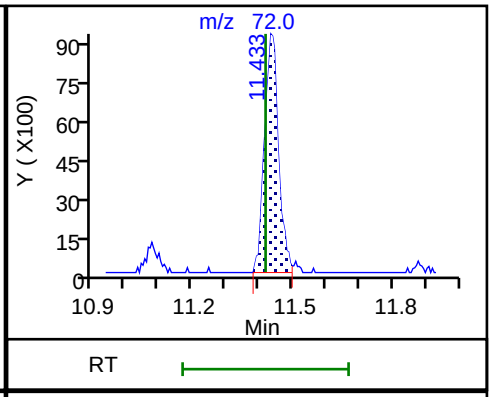
TestAmerica Burlington

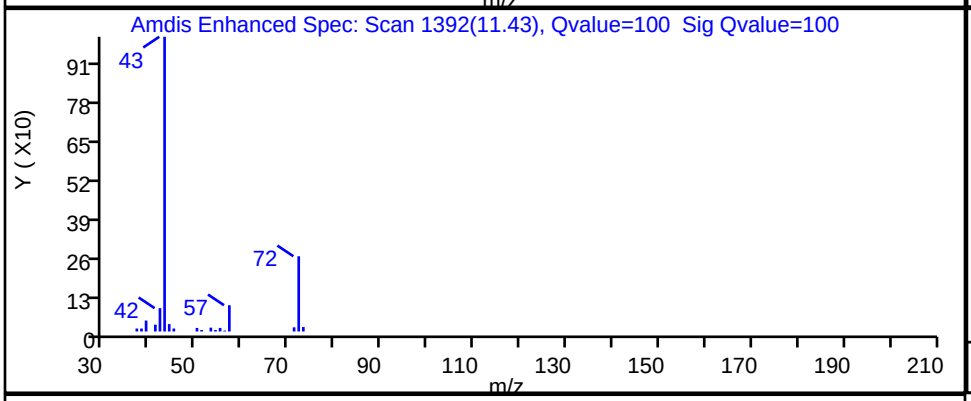
Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D

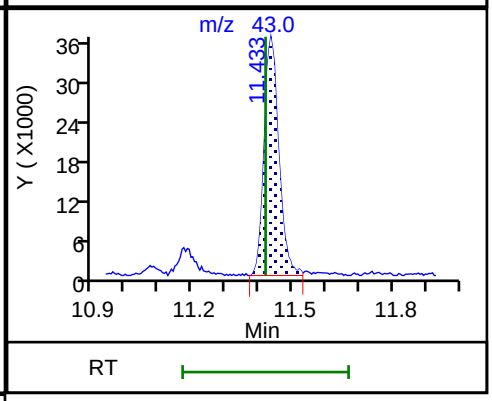
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1
Client ID:	9999-23 VP01-SV01-11202018		
Operator ID:	GGG	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

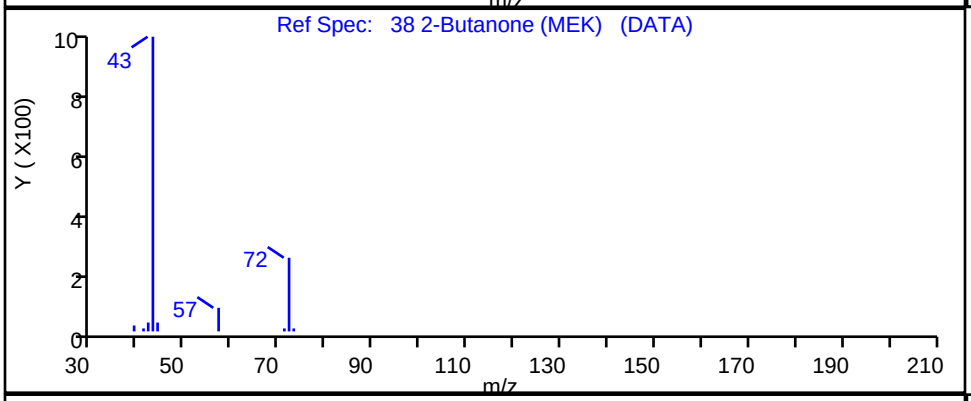
38 2-Butanone (MEK), CAS: 78-93-3

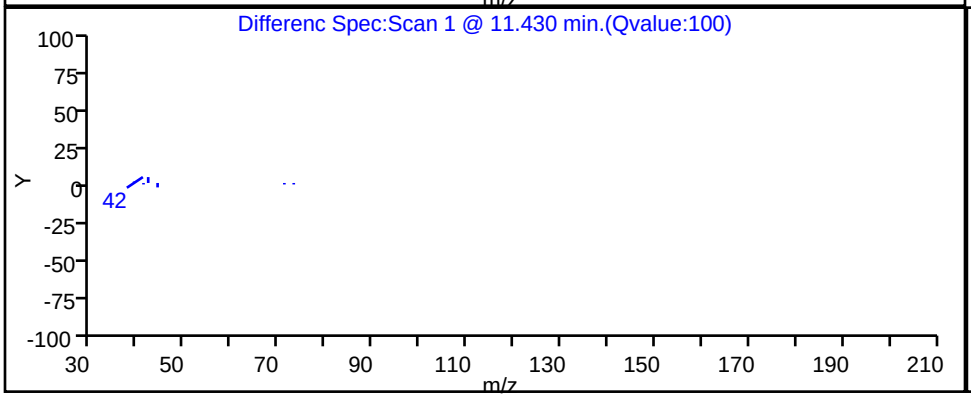


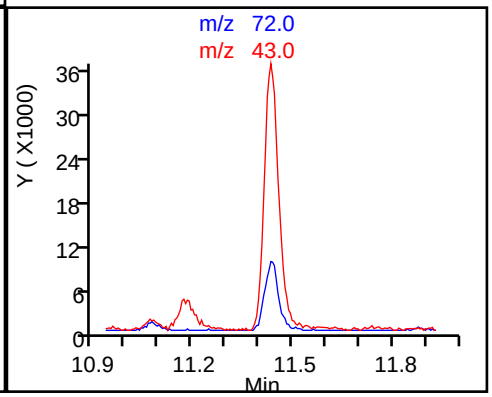












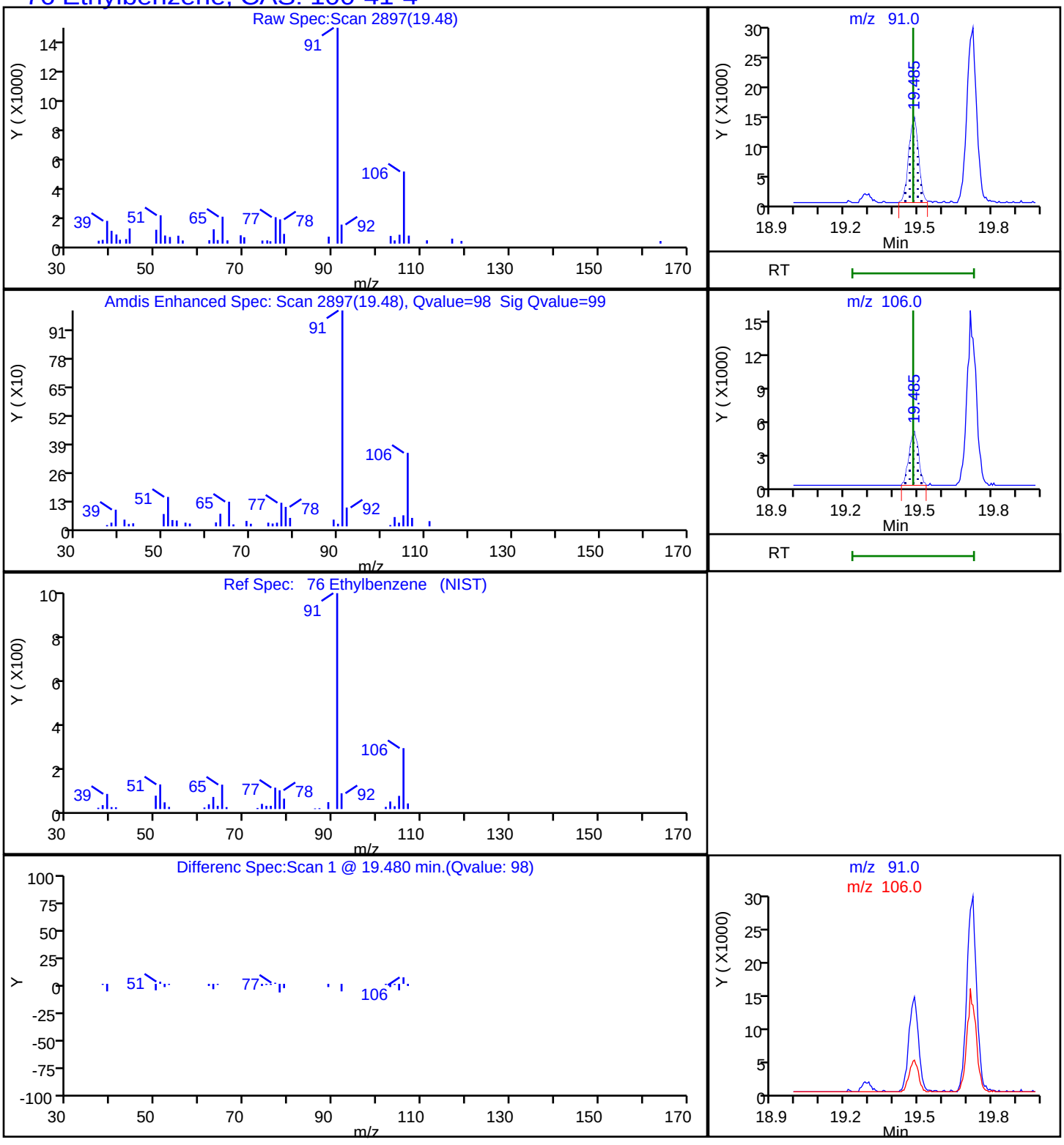
Report Date: 24-Dec-2018 10:47:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D

Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4

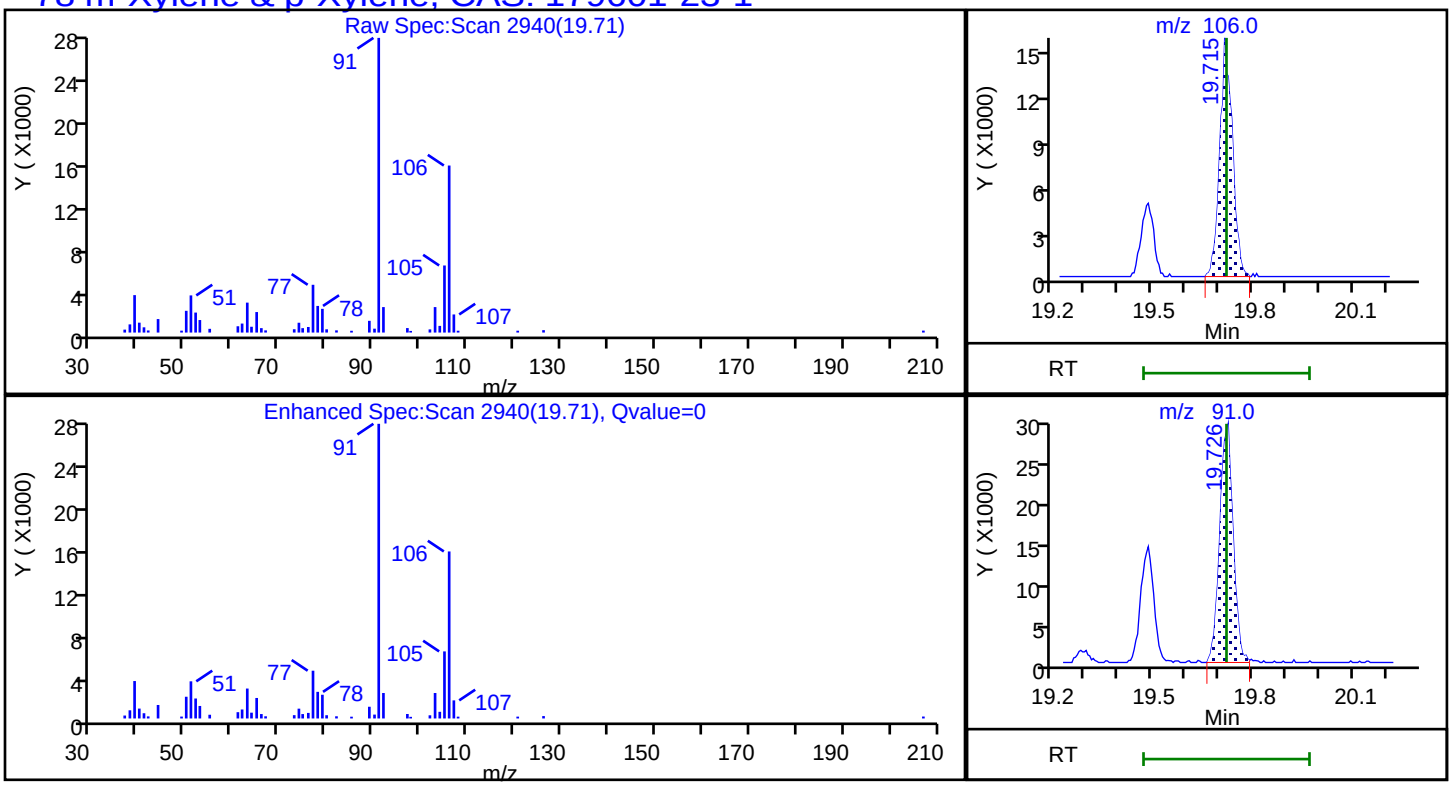


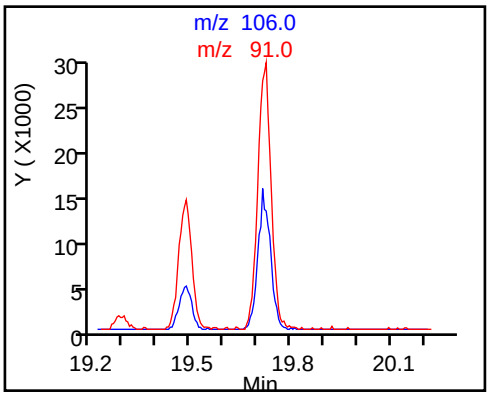
Report Date: 24-Dec-2018 10:47:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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





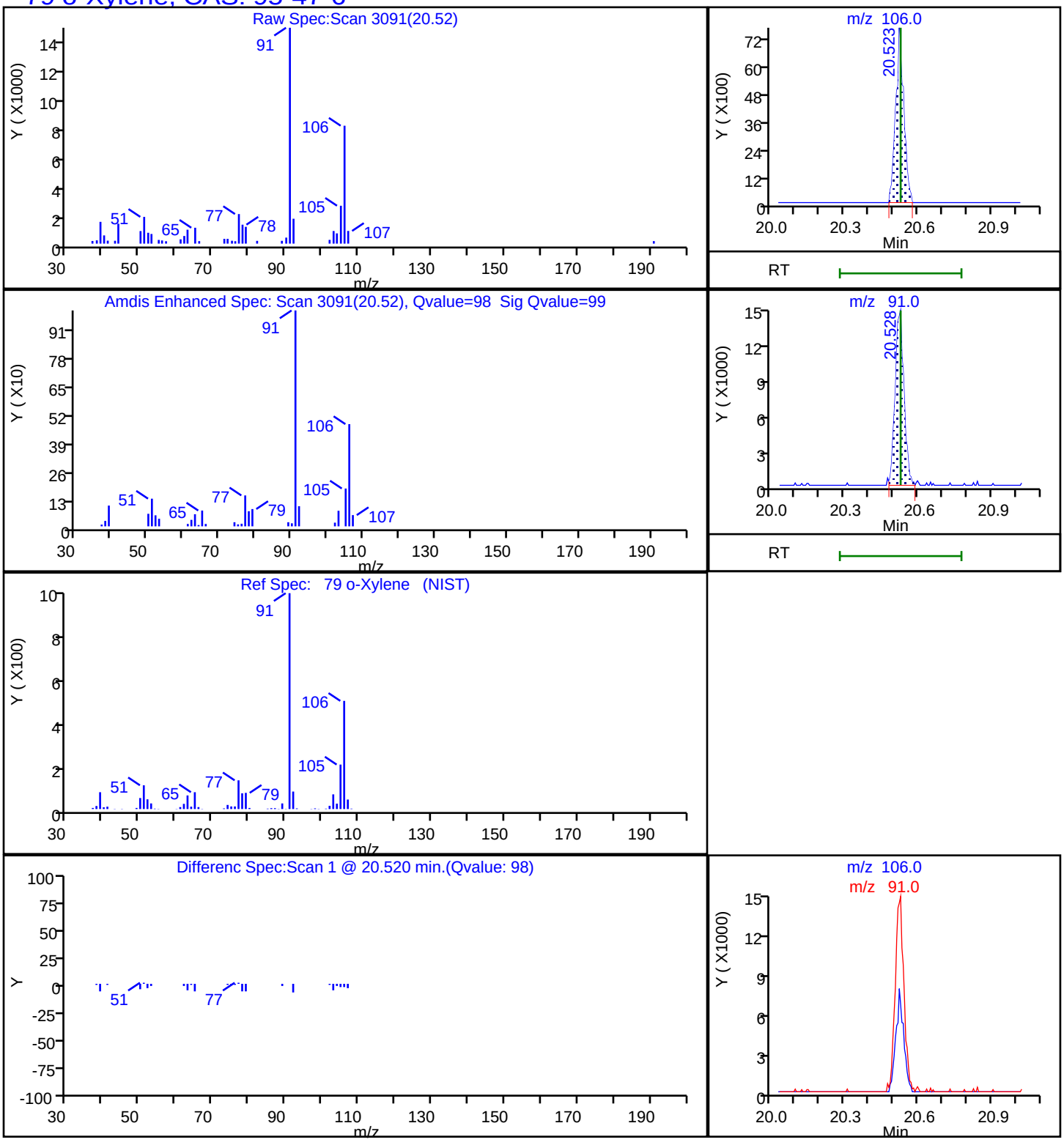
Report Date: 24-Dec-2018 10:47:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D

Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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



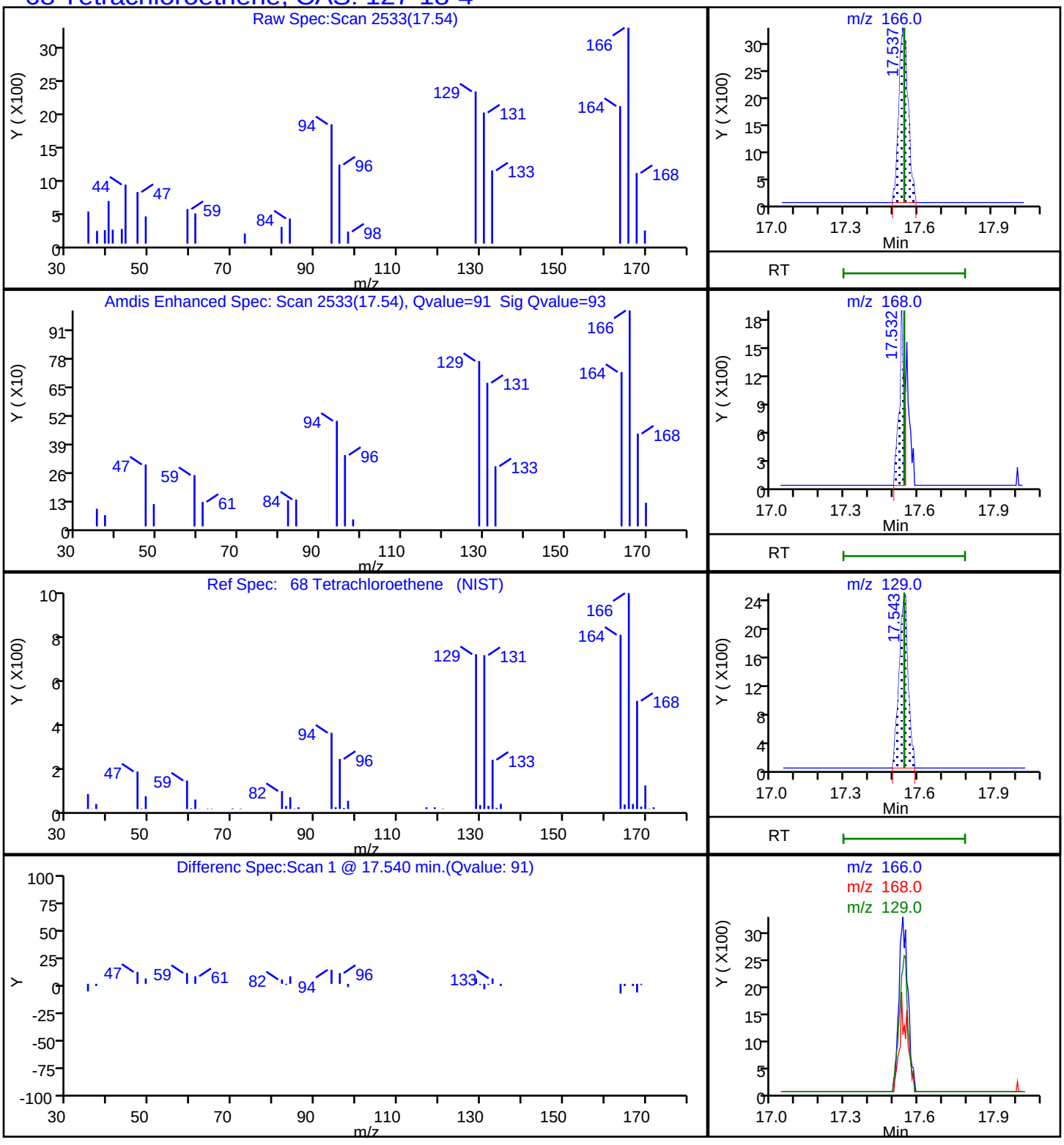
Report Date: 24-Dec-2018 10:47:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D

Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1
Client ID:	9999-23 VP01-SV01-11202018		
Operator ID:	GGG	ALS Bottle#:	5 Worklist Smp#: 6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN

68 Tetrachloroethene, CAS: 127-18-4



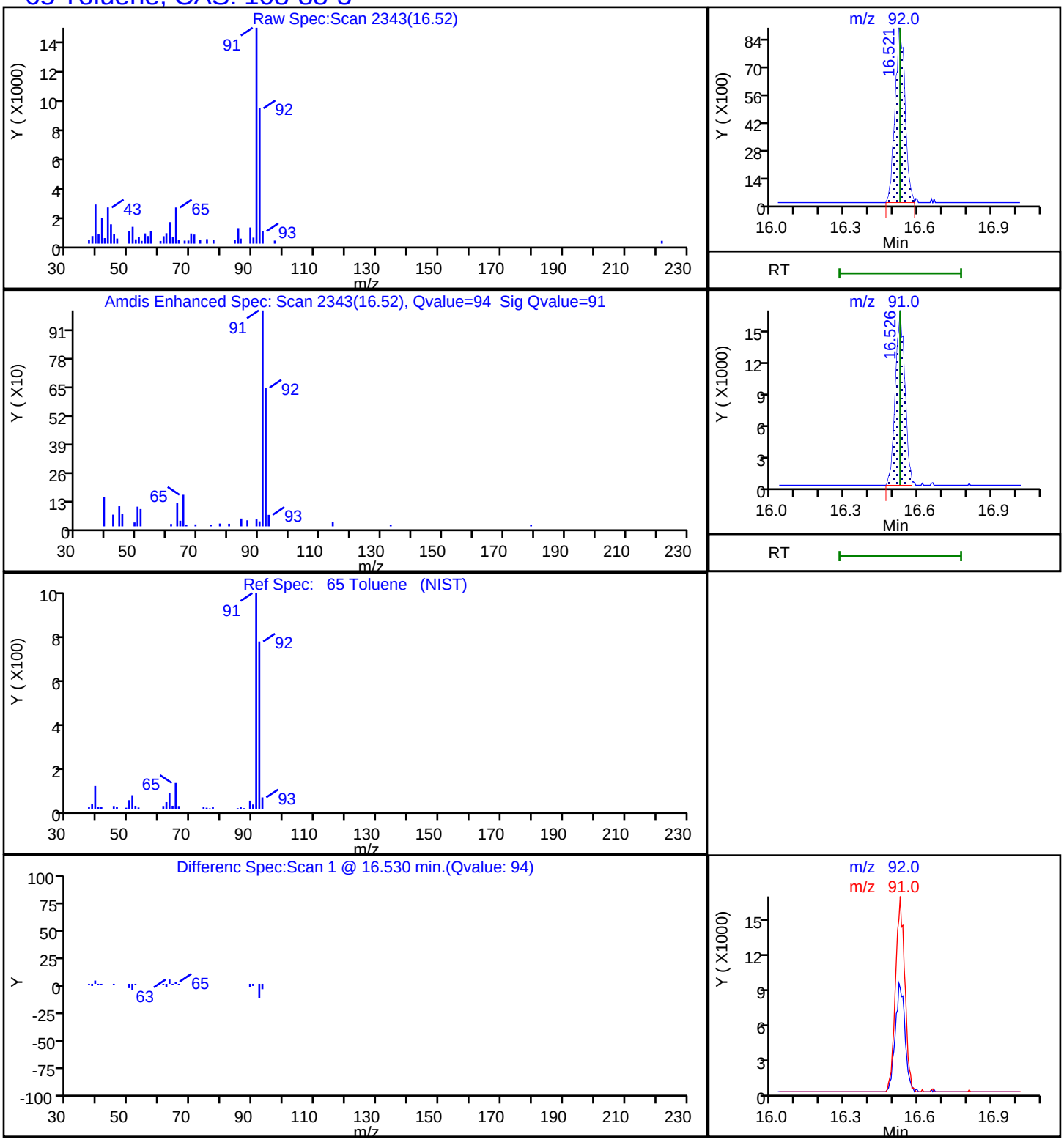
Report Date: 24-Dec-2018 10:47:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D

Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

65 Toluene, CAS: 108-88-3



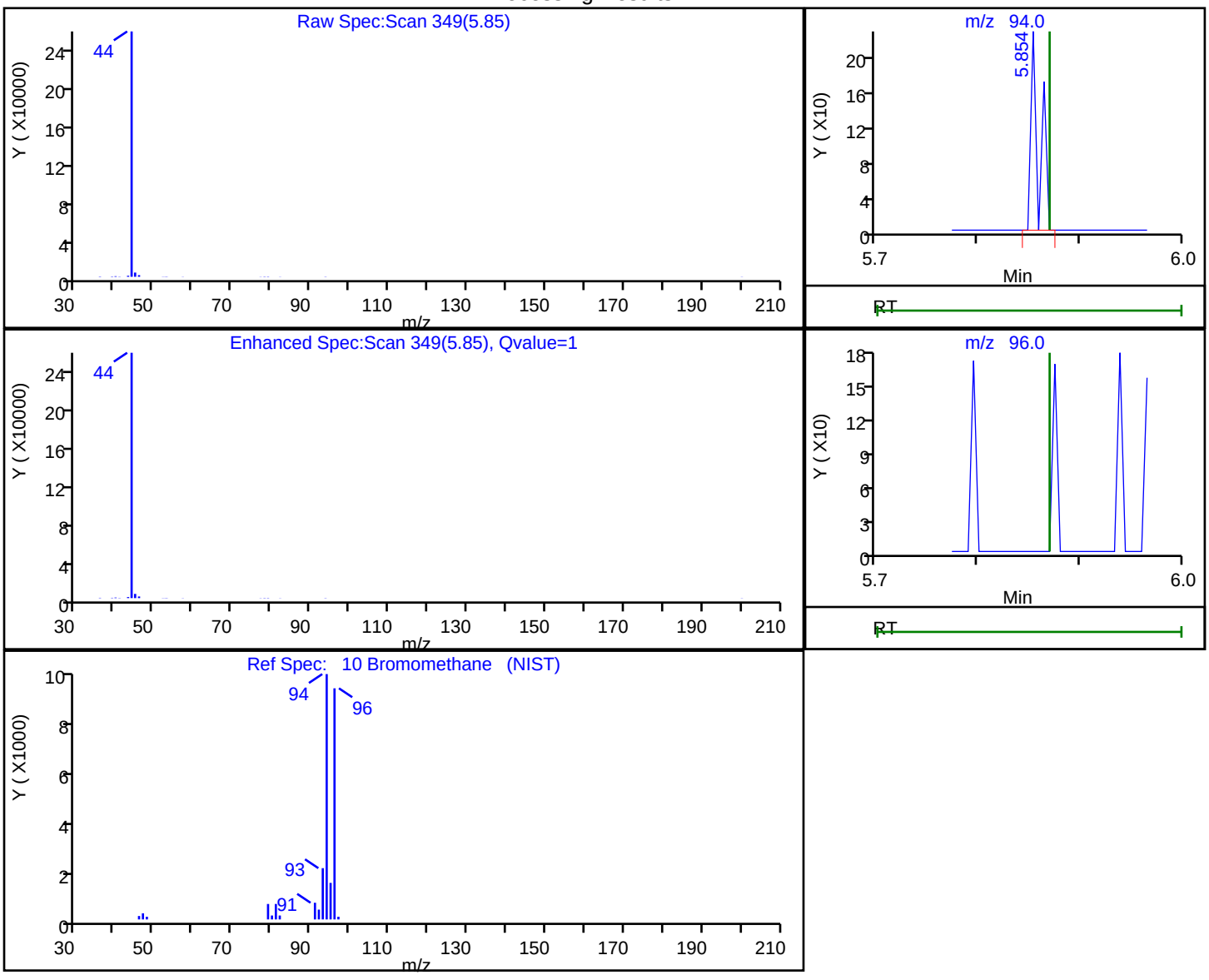
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

10 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
5.85	94.00	125	0.003247
5.87	96.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:43:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

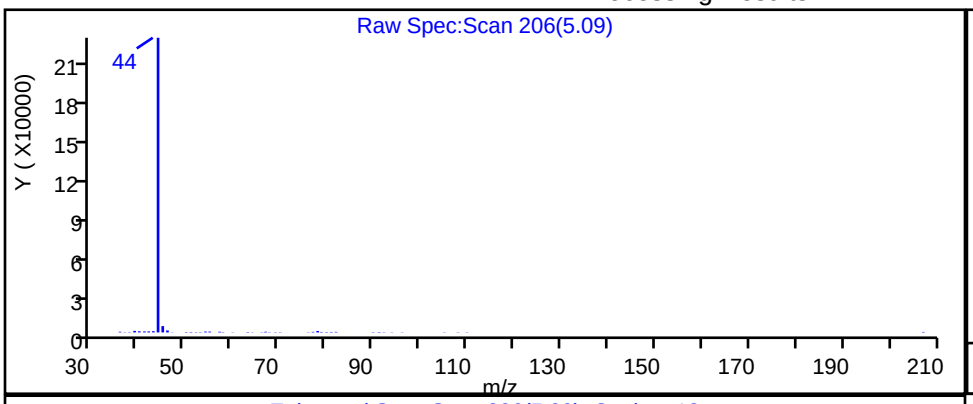
User Disabled Compound Report

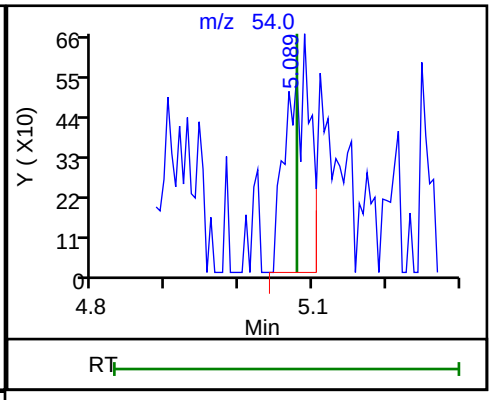
TestAmerica Burlington

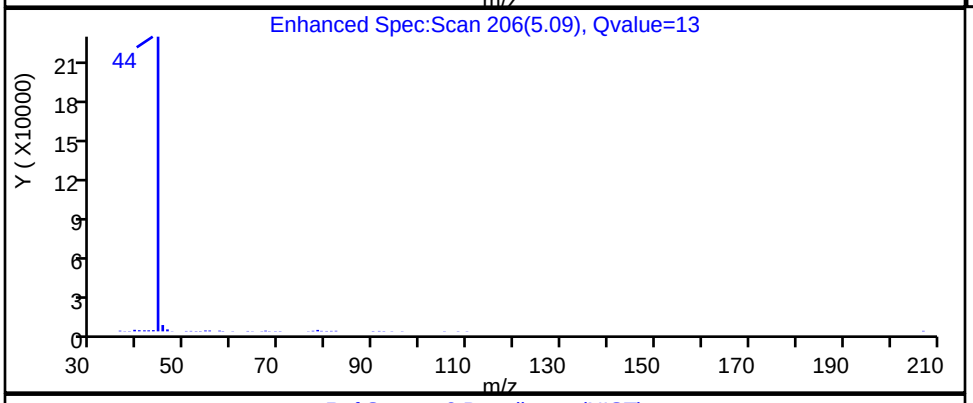
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

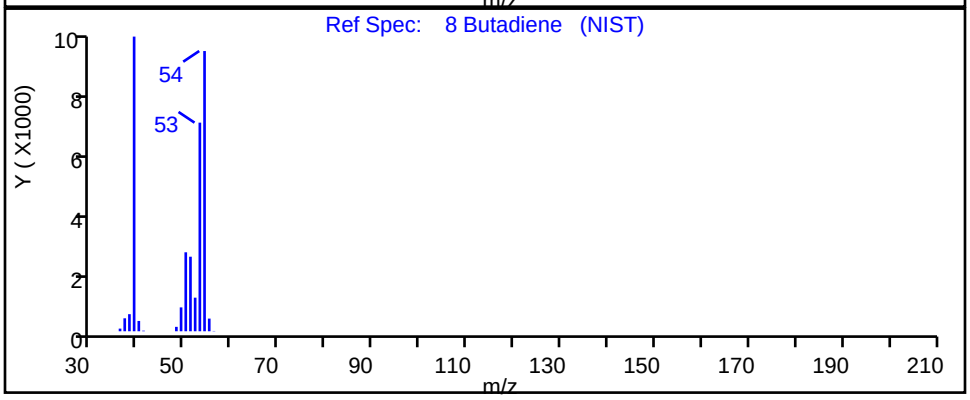
8 Butadiene, CAS: 106-99-0

Processing Results









RT	Mass	Response	Amount
5.09	54.00	1410	0.031746

Reviewer: bunmaa, 13-Dec-2018 12:43:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

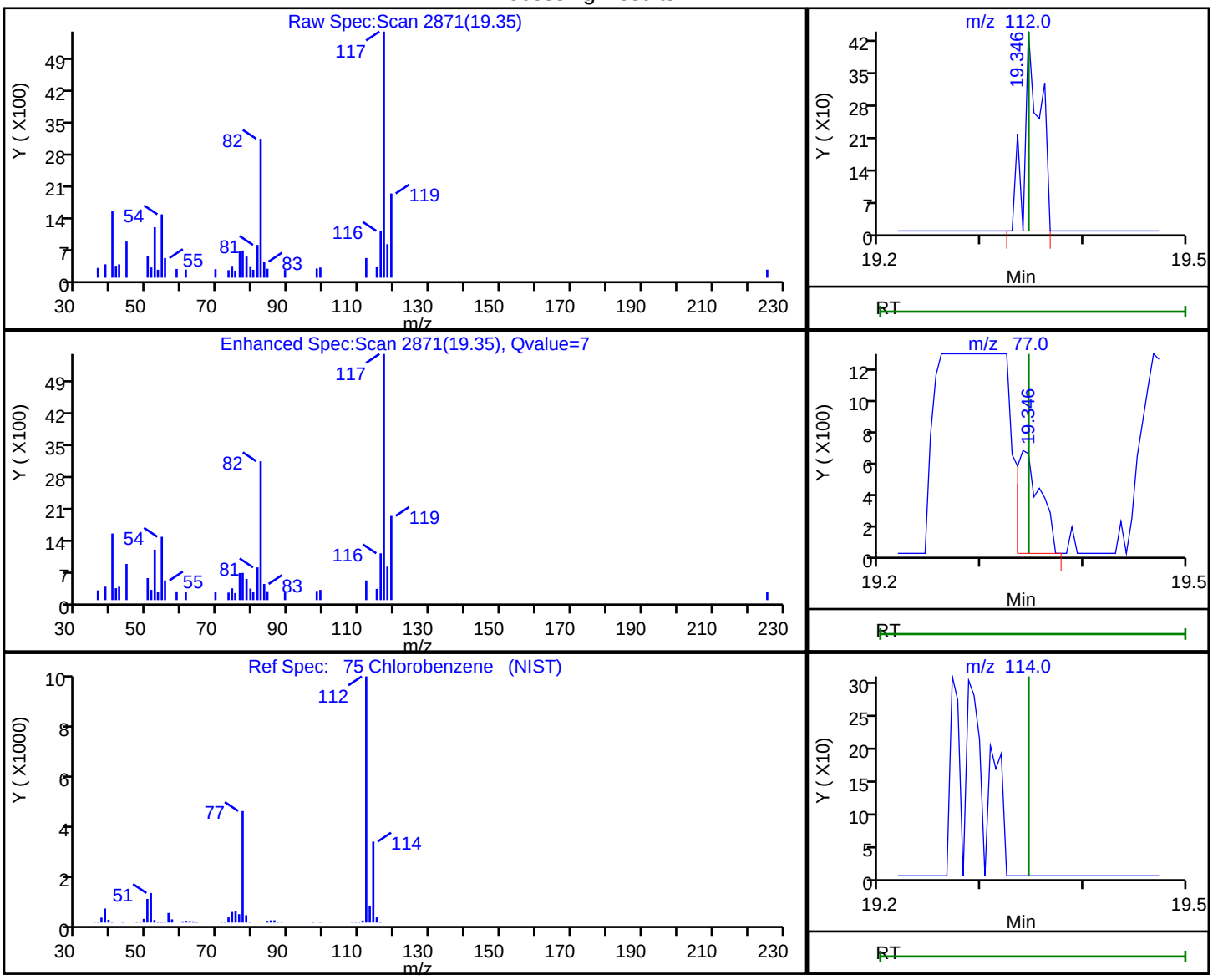
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

75 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
19.35	112.00	473	0.004082
19.35	77.00	984	
19.35	114.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:46:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

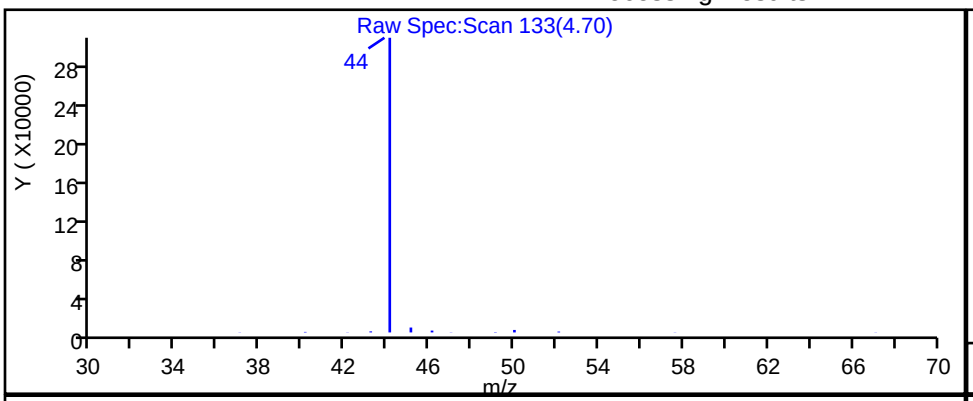
User Disabled Compound Report

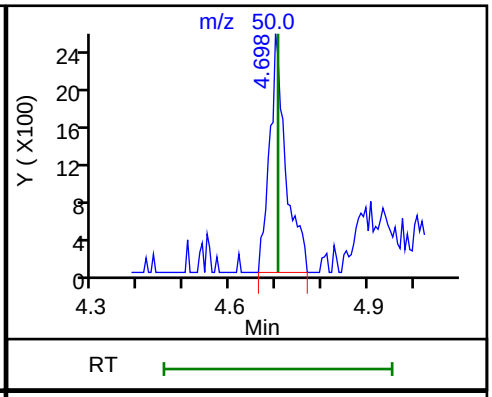
TestAmerica Burlington

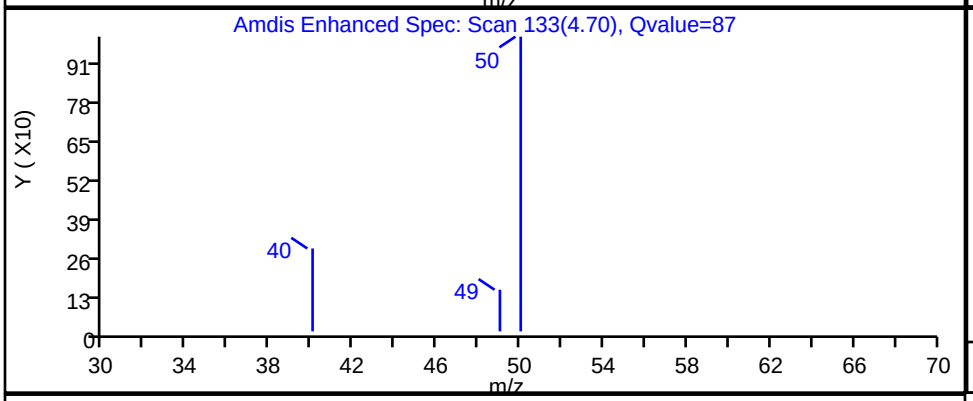
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

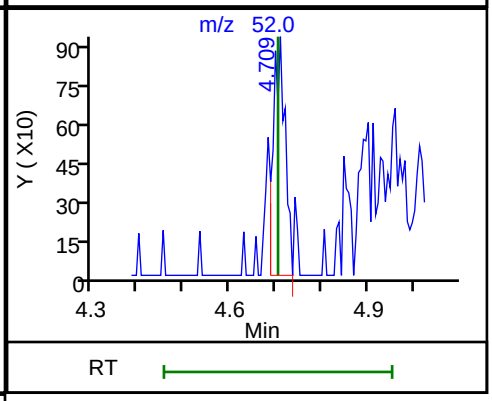
5 Chloromethane, CAS: 74-87-3

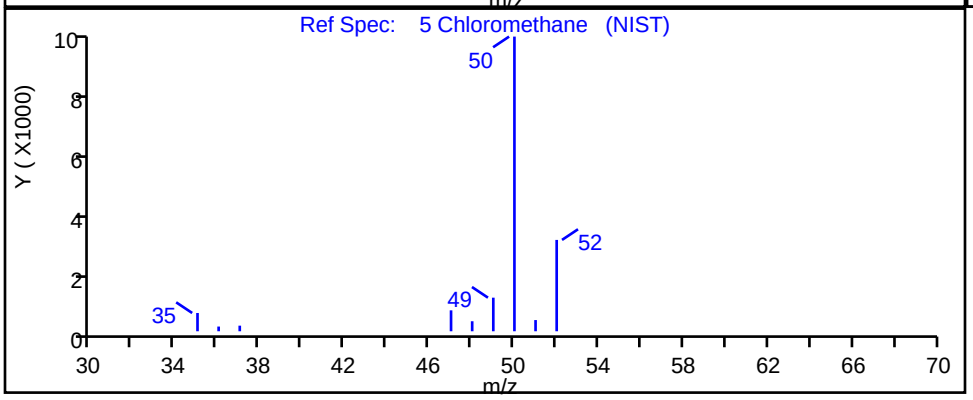
Processing Results











RT	Mass	Response	Amount
4.70	50.00	6290	0.189619
4.71	52.00	1640	

Reviewer: bunmaa, 13-Dec-2018 12:42:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

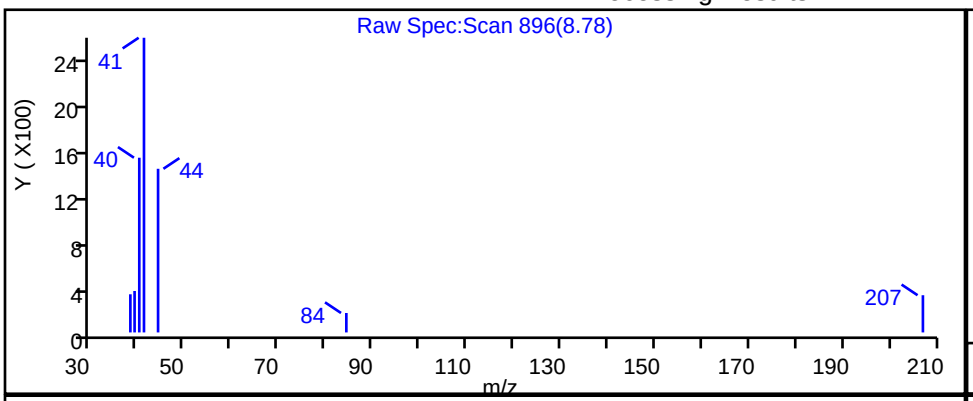
User Disabled Compound Report

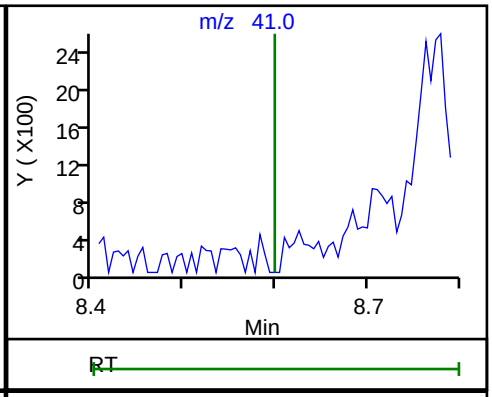
TestAmerica Burlington

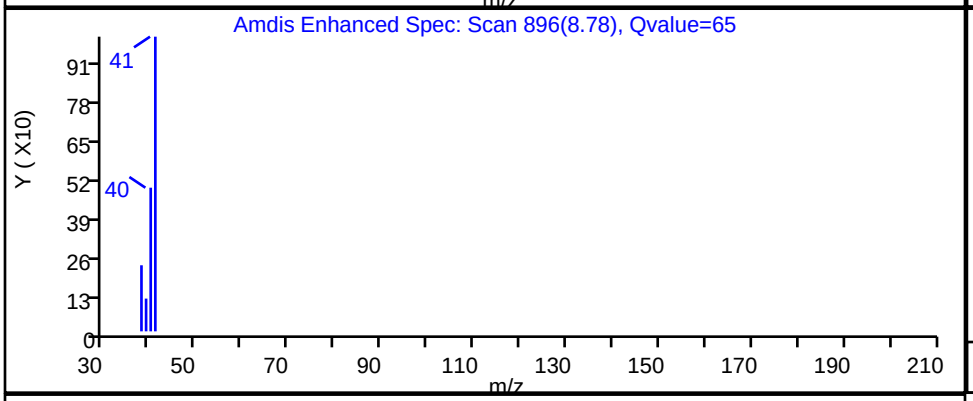
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

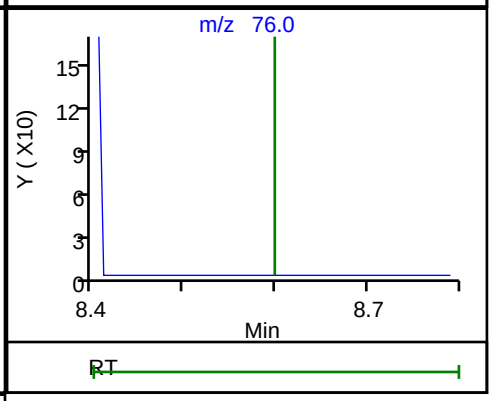
25 3-Chloro-1-propene, CAS: 107-05-1

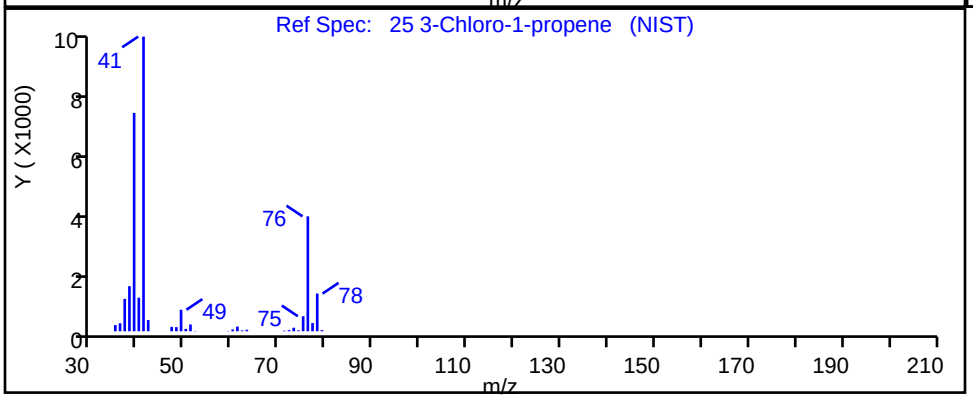
Processing Results











RT	Mass	Response	Amount
8.78	41.00	4478	0.084728
8.60	76.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:43:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

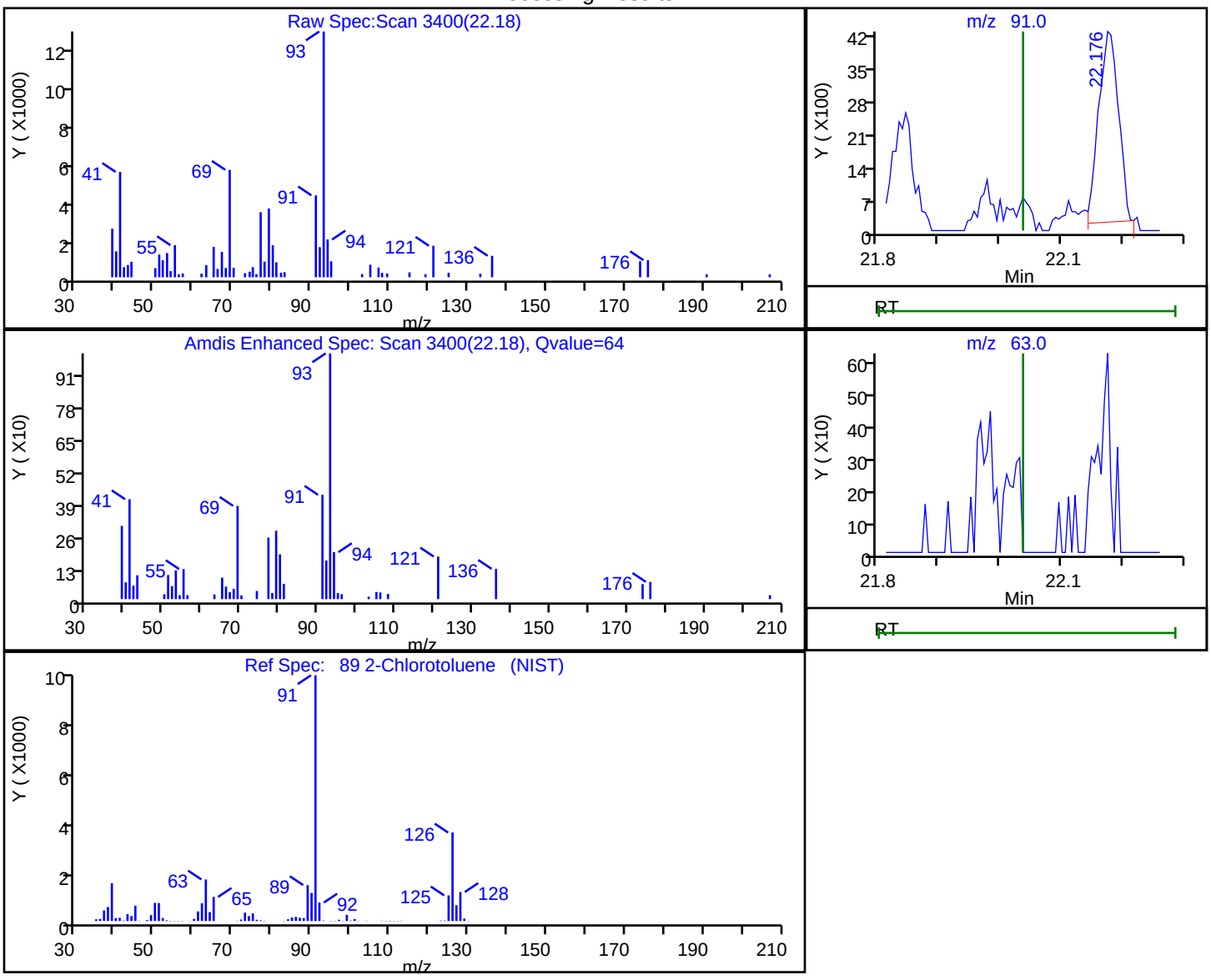
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
22.18	91.00	9085	0.047559
22.04	63.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:47:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

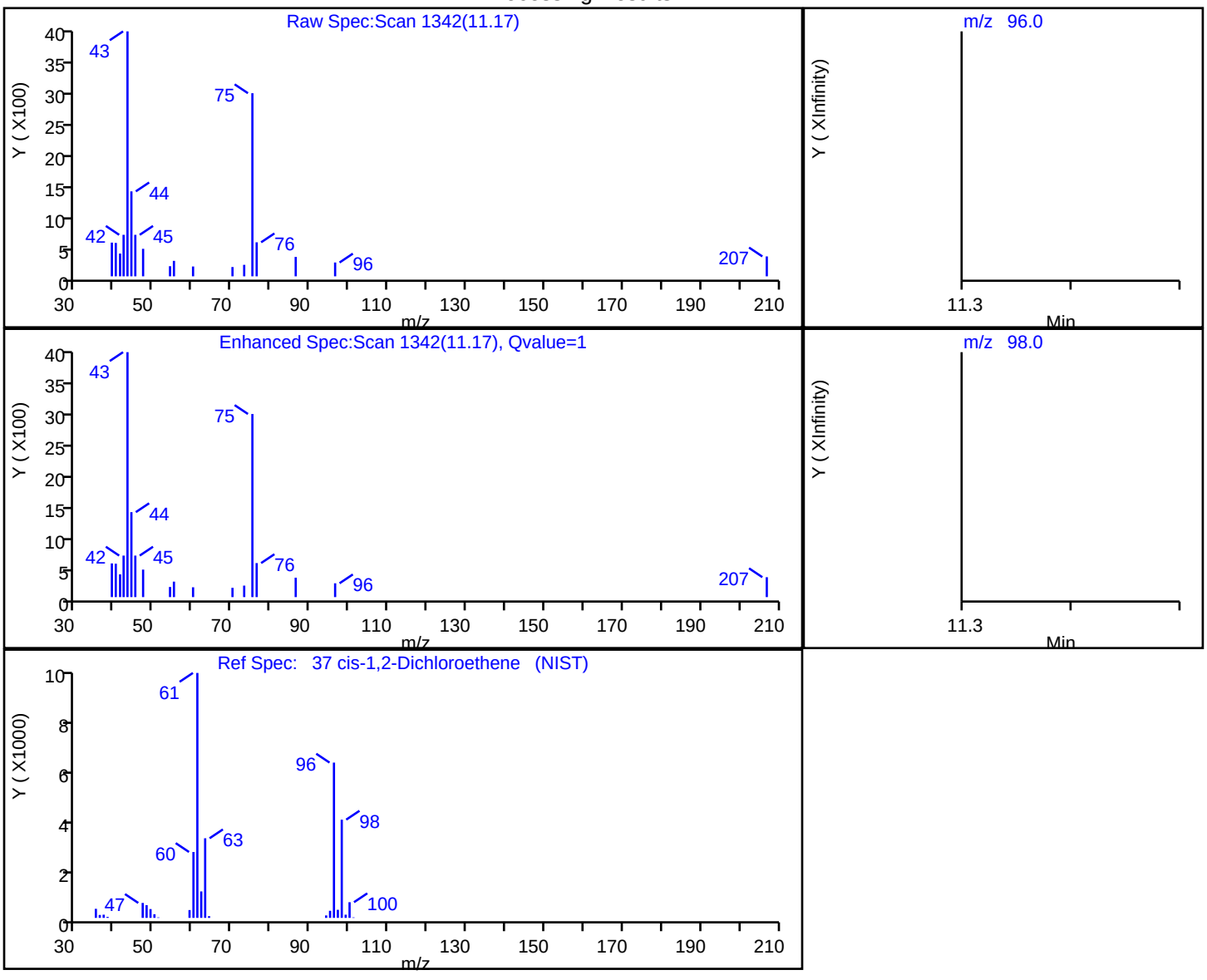
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
11.17	96.00	139	0.002779
11.37	98.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:44:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

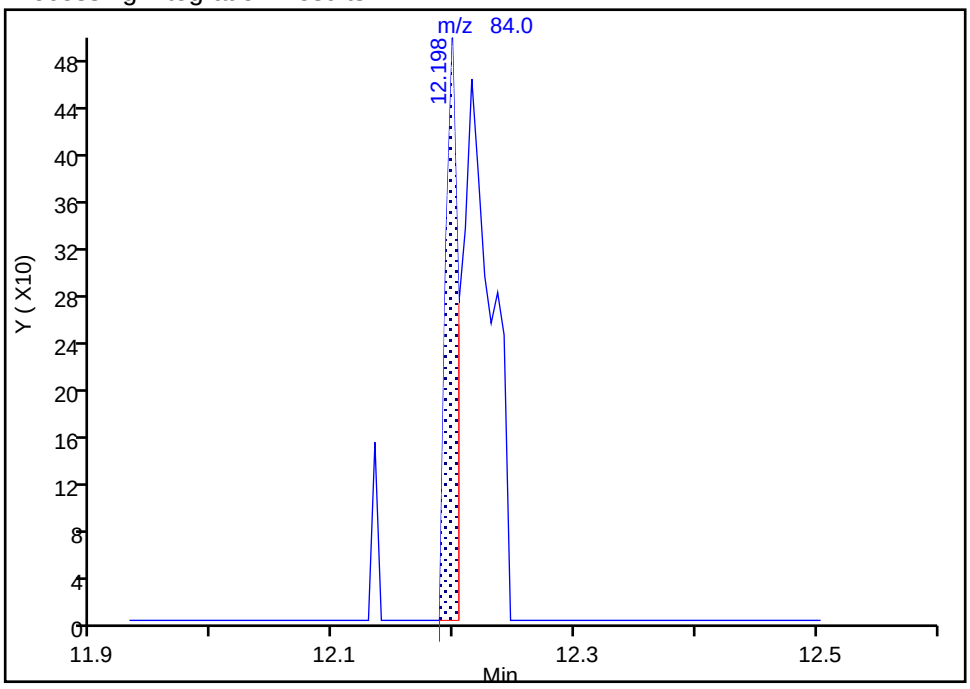
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

43 Cyclohexane, CAS: 110-82-7

Signal: 1

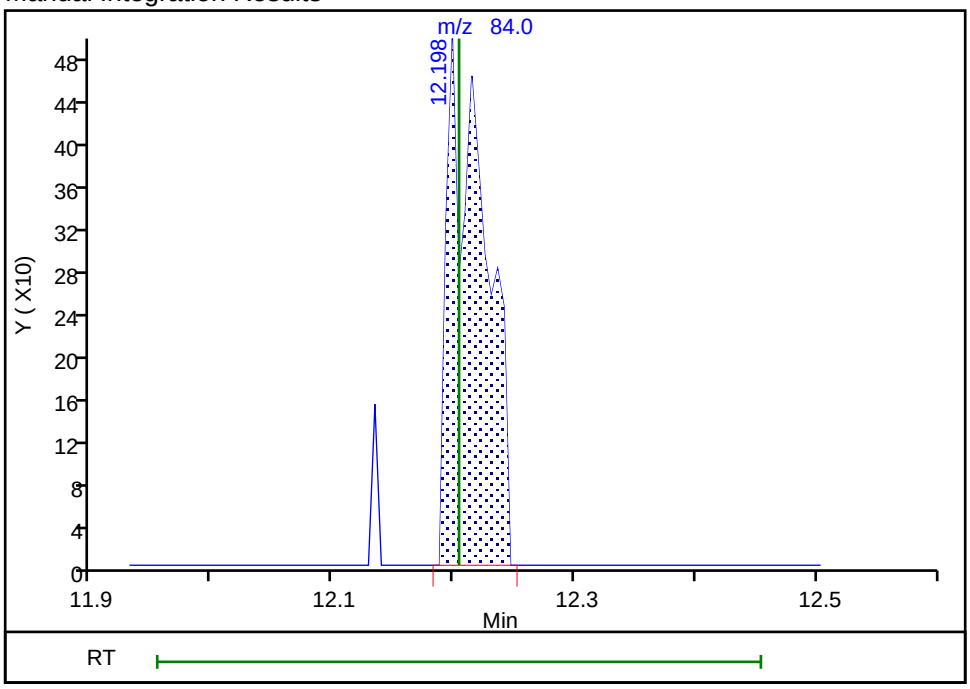
Processing Integration Results

RT: 12.20
Area: 348
Amount: 0.005431
Amount Units: ppb v/v



Manual Integration Results

RT: 12.20
Area: 1065
Amount: 0.016620
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:45:10

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

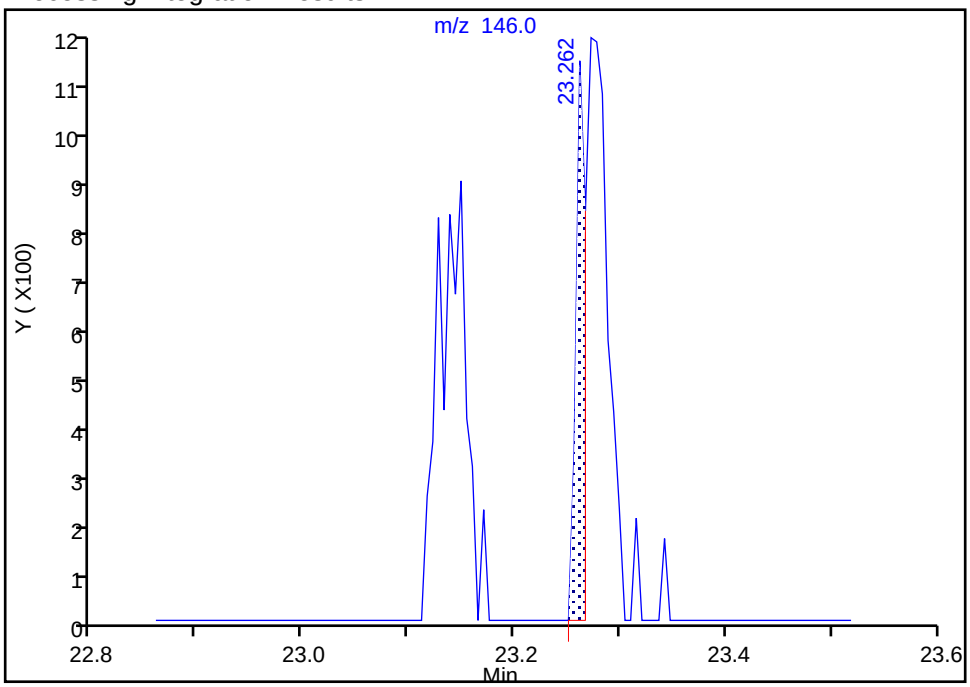
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

96 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

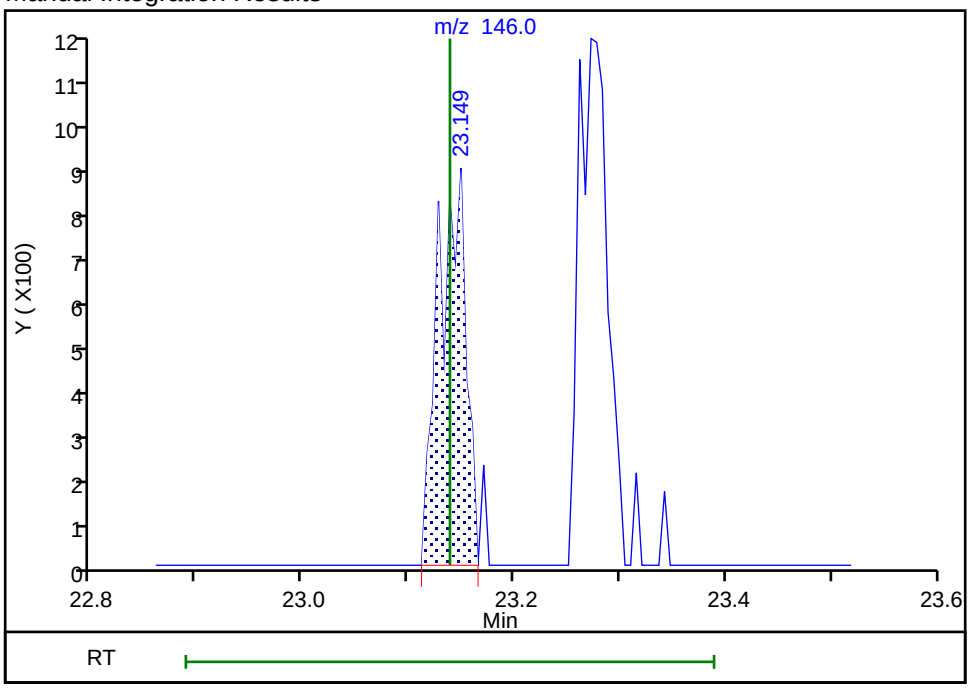
Processing Integration Results

RT: 23.26
Area: 697
Amount: 0.006249
Amount Units: ppb v/v



Manual Integration Results

RT: 23.15
Area: 1495
Amount: 0.013403
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:48:28

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

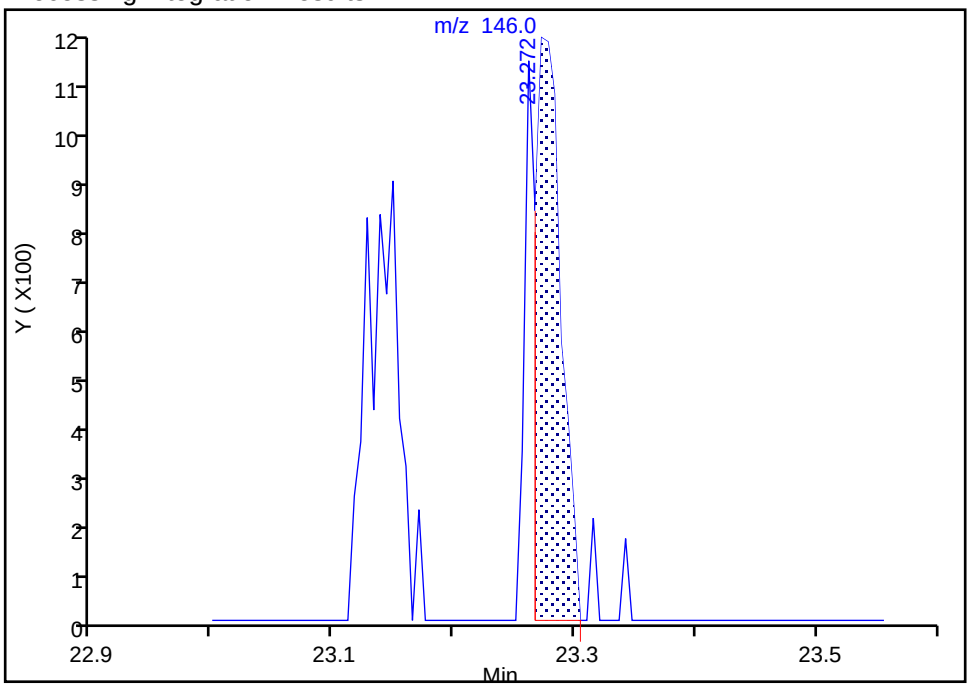
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

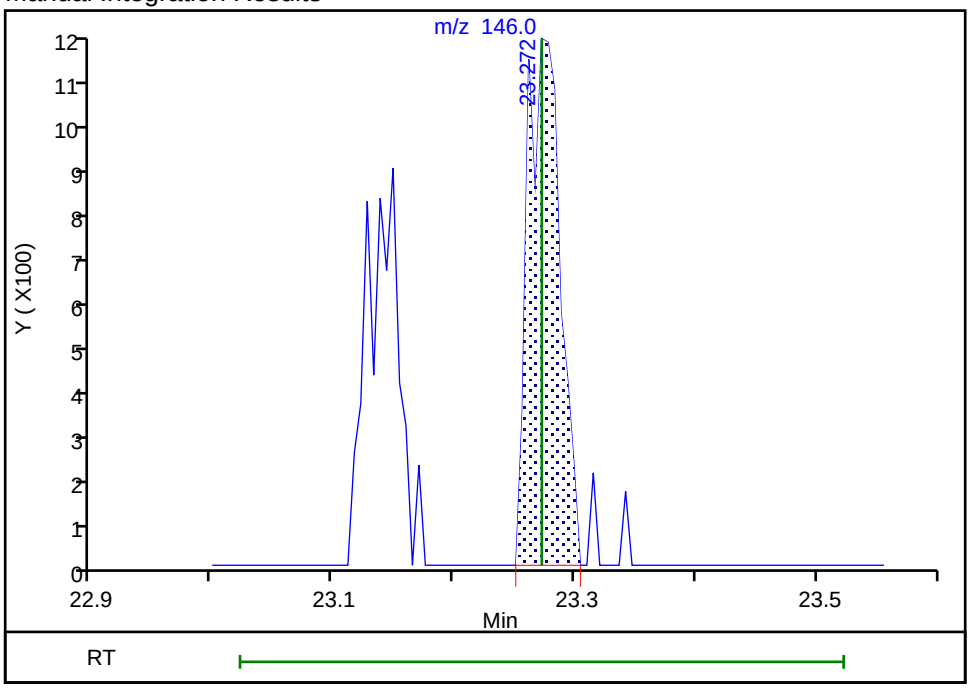
Processing Integration Results

RT: 23.27
Area: 1651
Amount: 0.015364
Amount Units: ppb v/v



Manual Integration Results

RT: 23.27
Area: 2097
Amount: 0.019514
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:48:44

Audit Action: Manually Integrated Audit Reason: Assign Peak

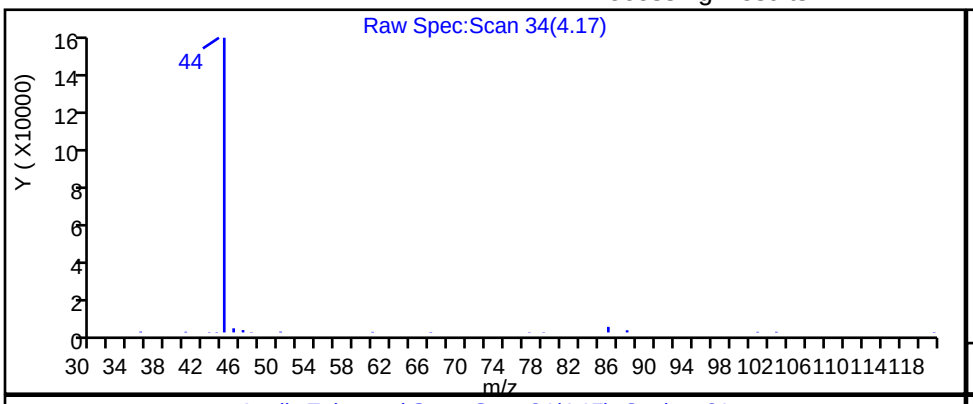
User Disabled Compound Report

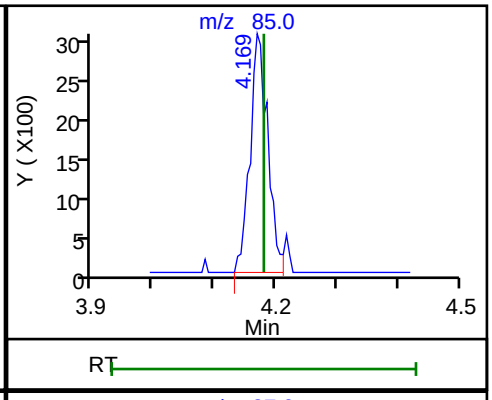
TestAmerica Burlington

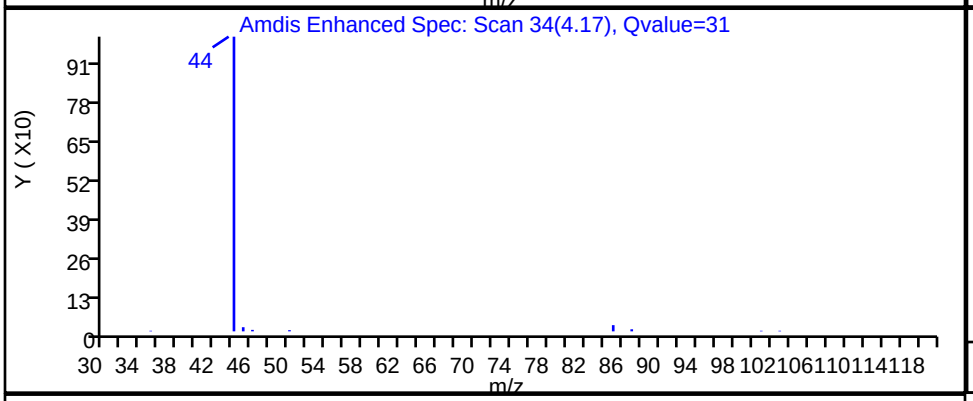
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

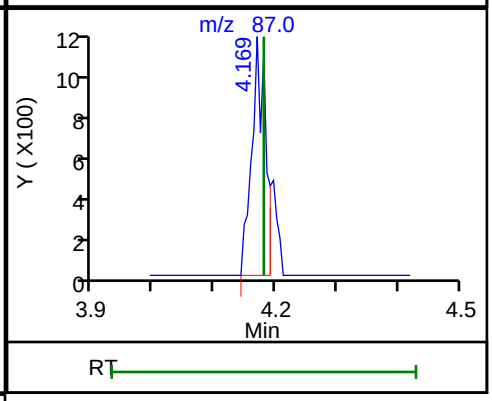
2 Dichlorodifluoromethane, CAS: 75-71-8

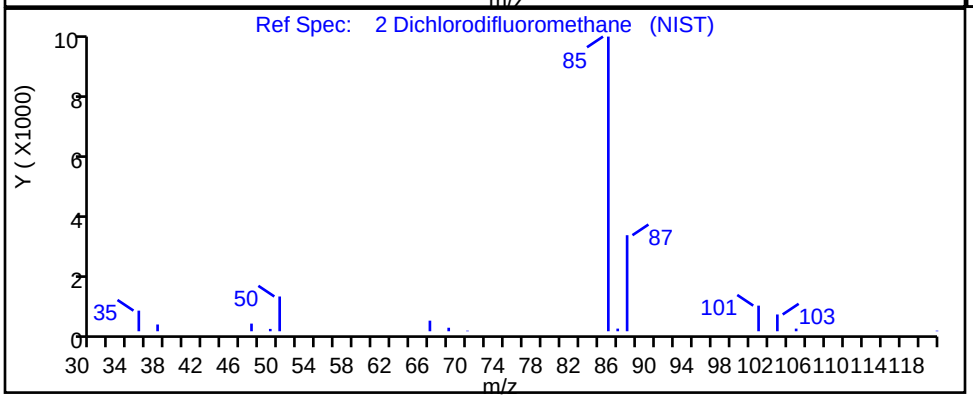
Processing Results











RT	Mass	Response	Amount
4.17	85.00	6103	0.069692
4.17	87.00	1818	

Reviewer: bunmaa, 13-Dec-2018 12:42:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

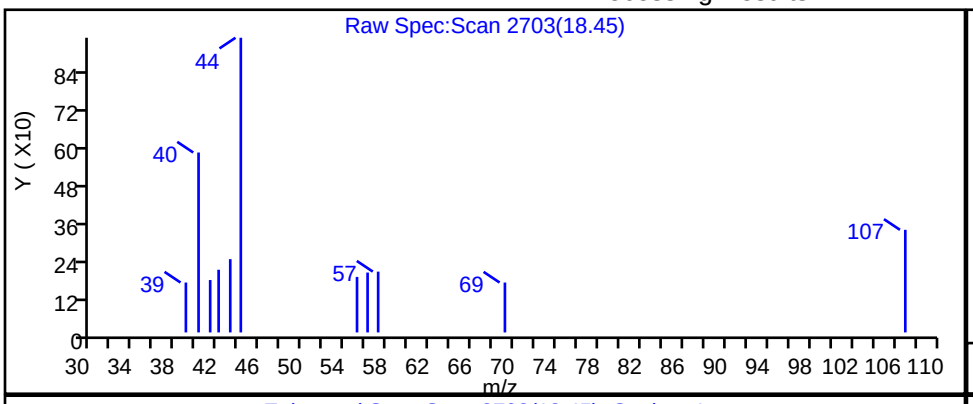
User Disabled Compound Report

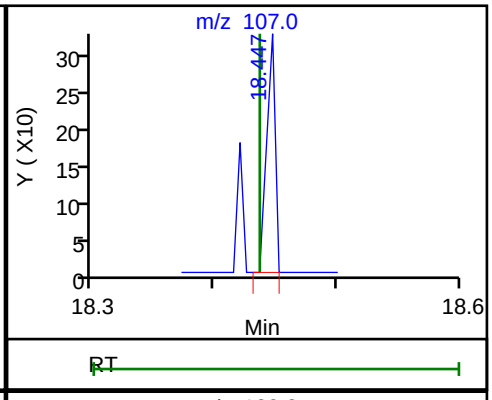
TestAmerica Burlington

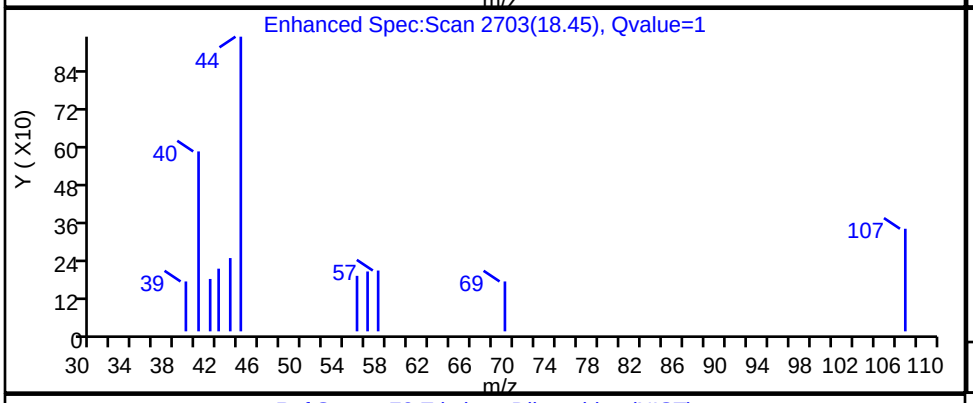
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

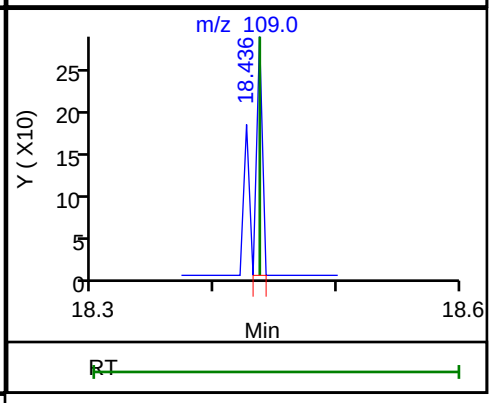
72 Ethylene Dibromide, CAS: 106-93-4

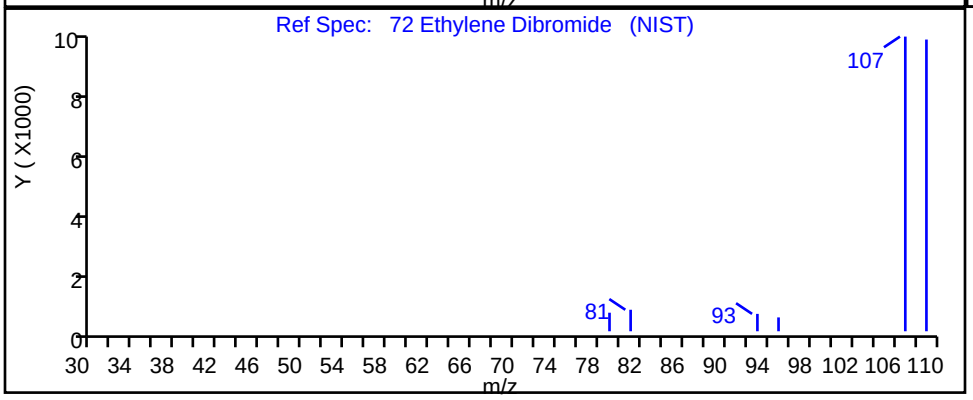
Processing Results











RT	Mass	Response	Amount
18.45	107.00	159	0.001997
18.44	109.00	92	

Reviewer: bunmaa, 13-Dec-2018 12:46:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

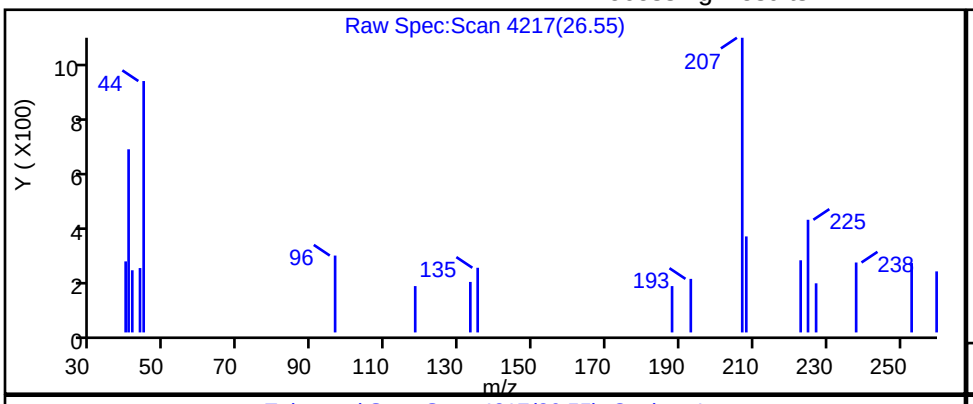
User Disabled Compound Report

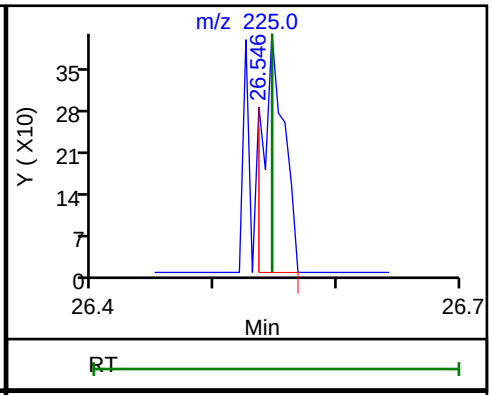
TestAmerica Burlington

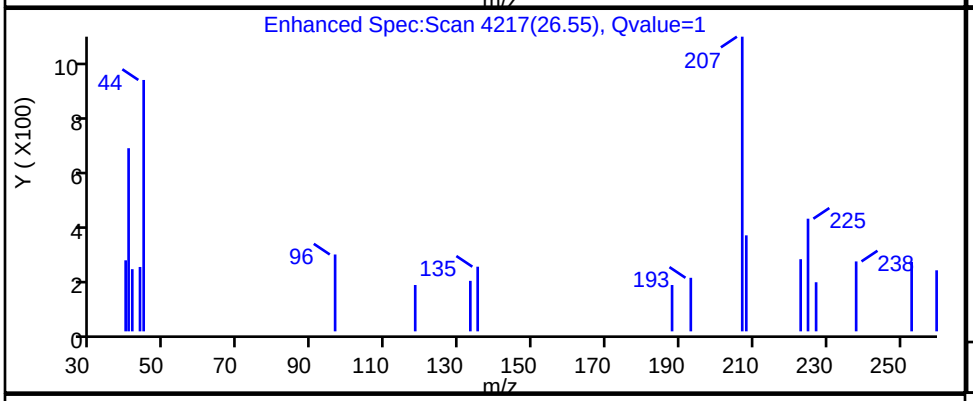
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

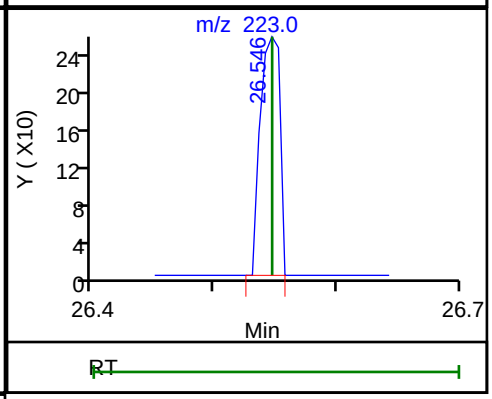
104 Hexachlorobutadiene, CAS: 87-68-3

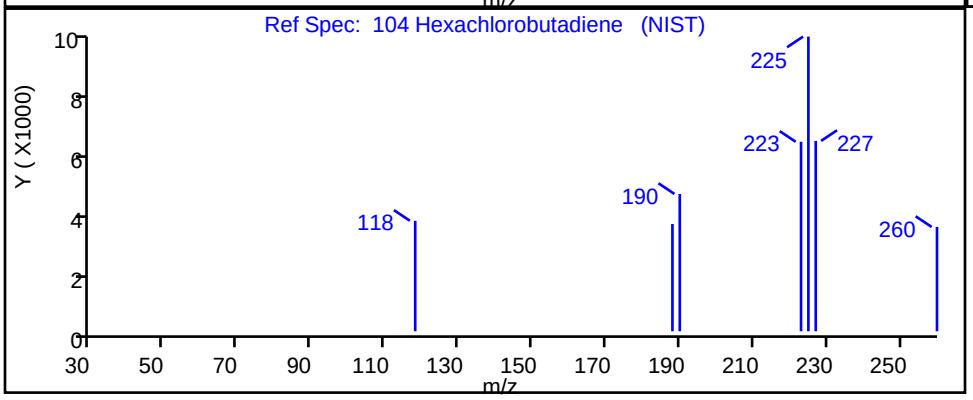
Processing Results











RT	Mass	Response	Amount
26.55	225.00	494	0.005918
26.55	223.00	291	

Reviewer: bunmaa, 13-Dec-2018 12:49:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

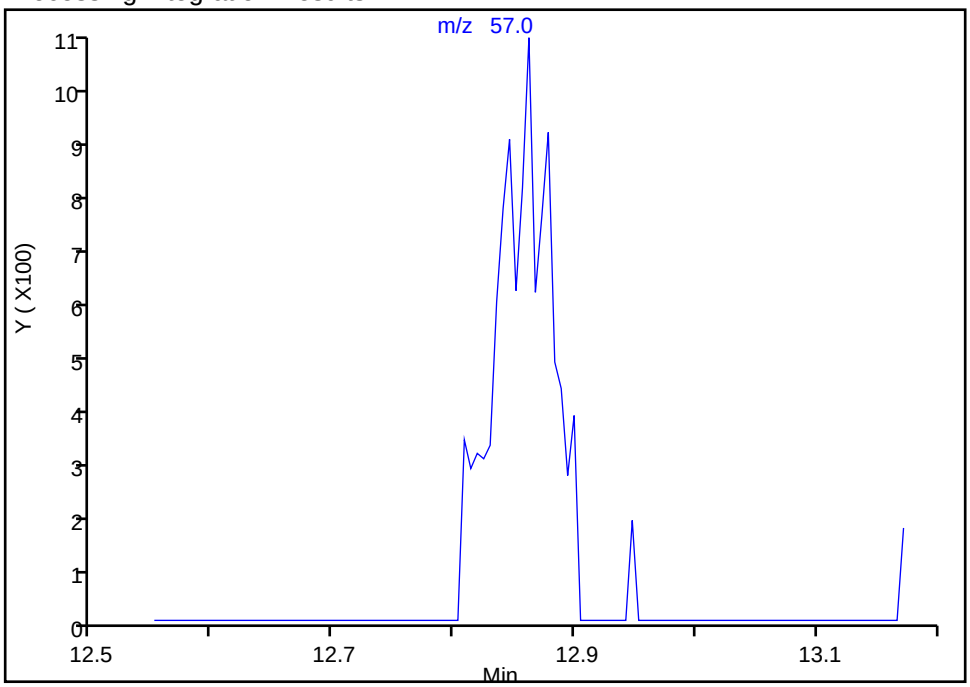
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Isooctane, CAS: 540-84-1

Signal: 1

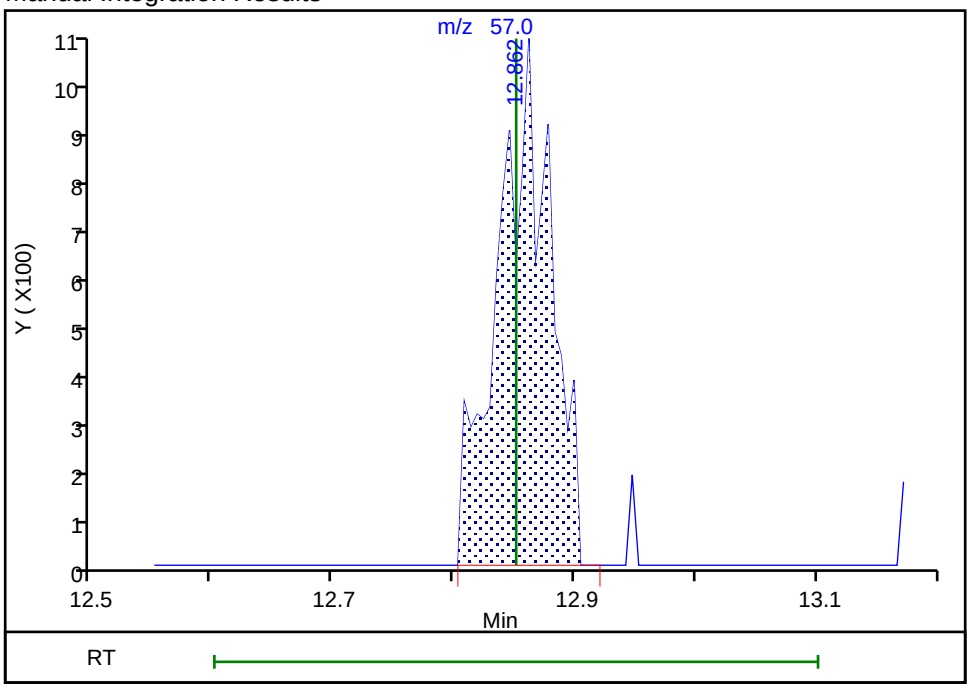
Not Detected
Expected RT: 12.85

Processing Integration Results



Manual Integration Results

RT: 12.86
Area: 3238
Amount: 0.014141
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:45:23
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

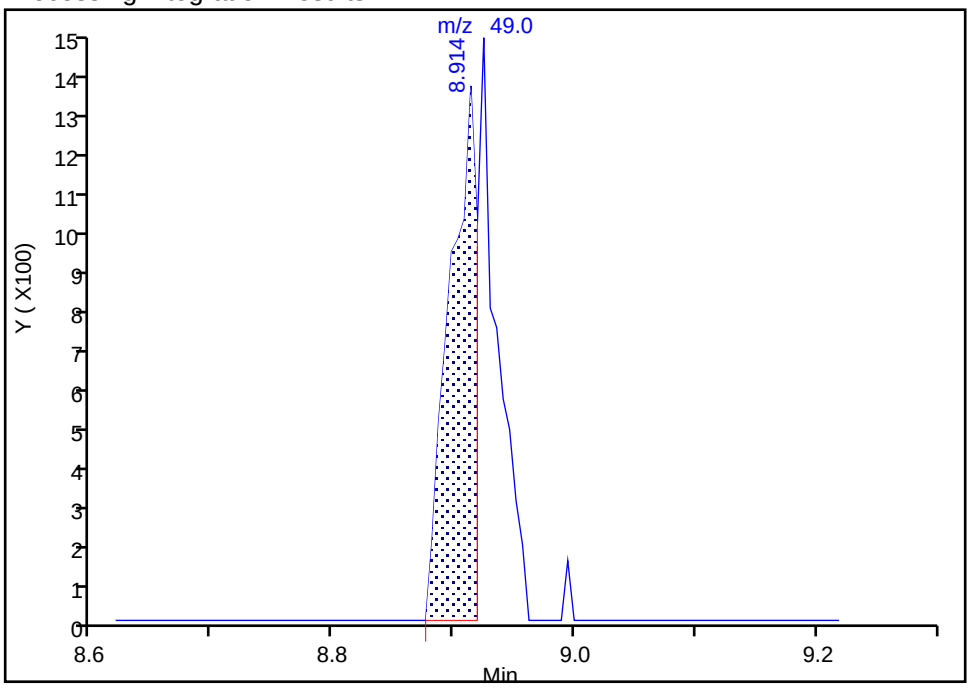
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

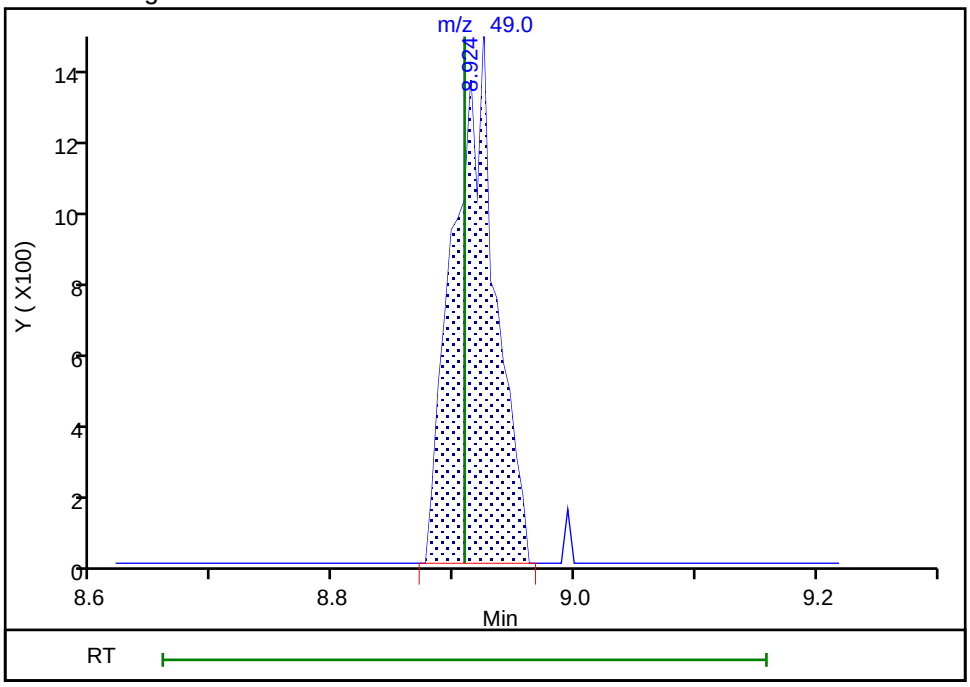
Processing Integration Results

RT: 8.91
Area: 2125
Amount: 0.039139
Amount Units: ppb v/v



Manual Integration Results

RT: 8.92
Area: 3571
Amount: 0.065772
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:44:03

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

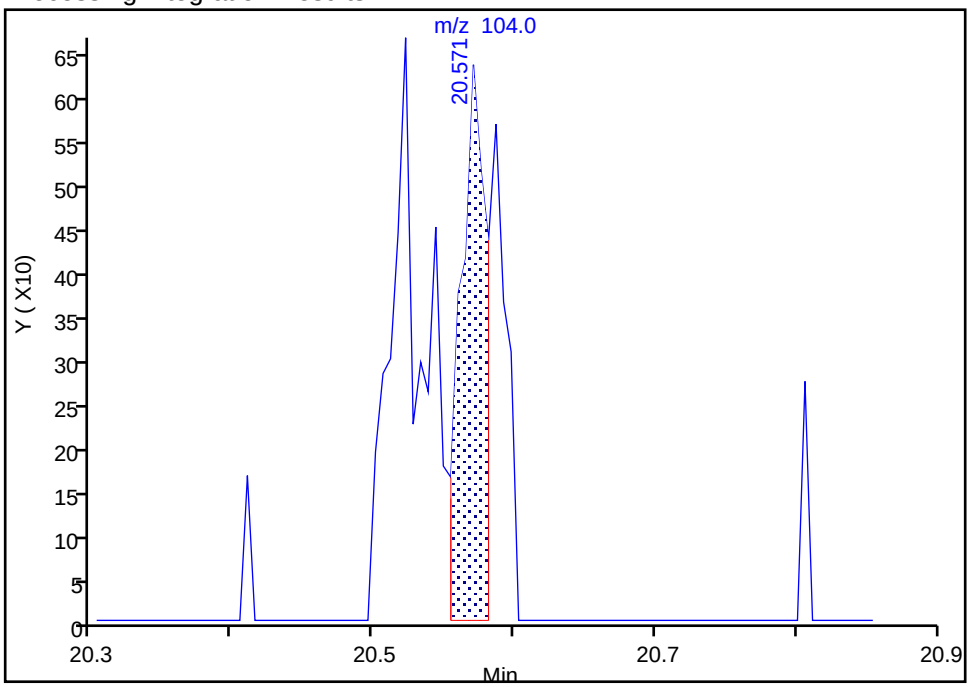
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

80 Styrene, CAS: 100-42-5

Signal: 1

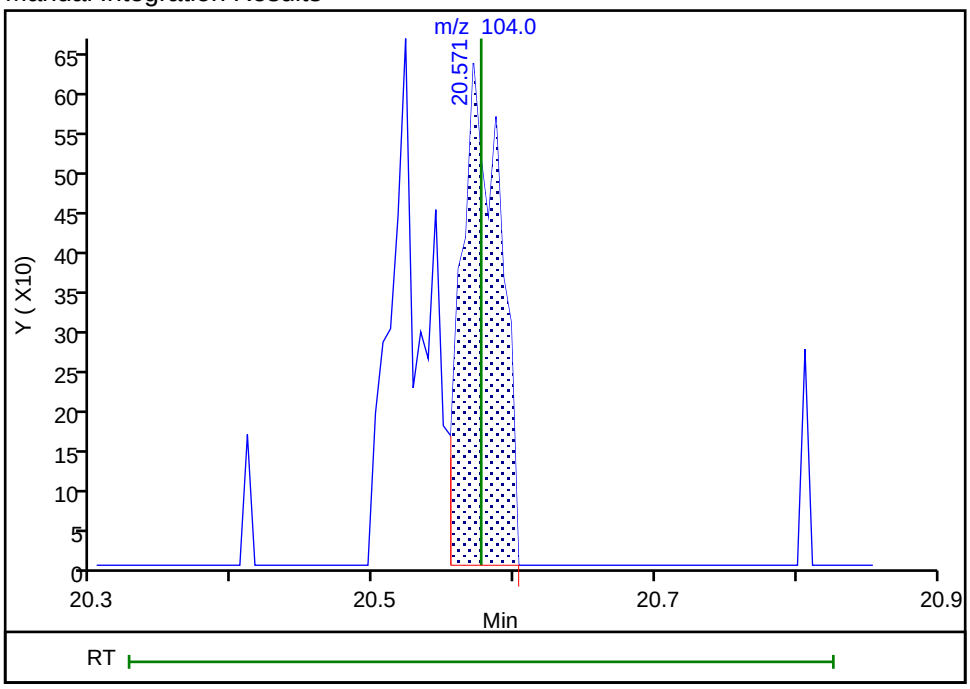
Processing Integration Results

RT: 20.57
Area: 817
Amount: 0.007009
Amount Units: ppb v/v



Manual Integration Results

RT: 20.57
Area: 1216
Amount: 0.010433
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:46:34

Audit Action: Manually Integrated Audit Reason: Assign Peak

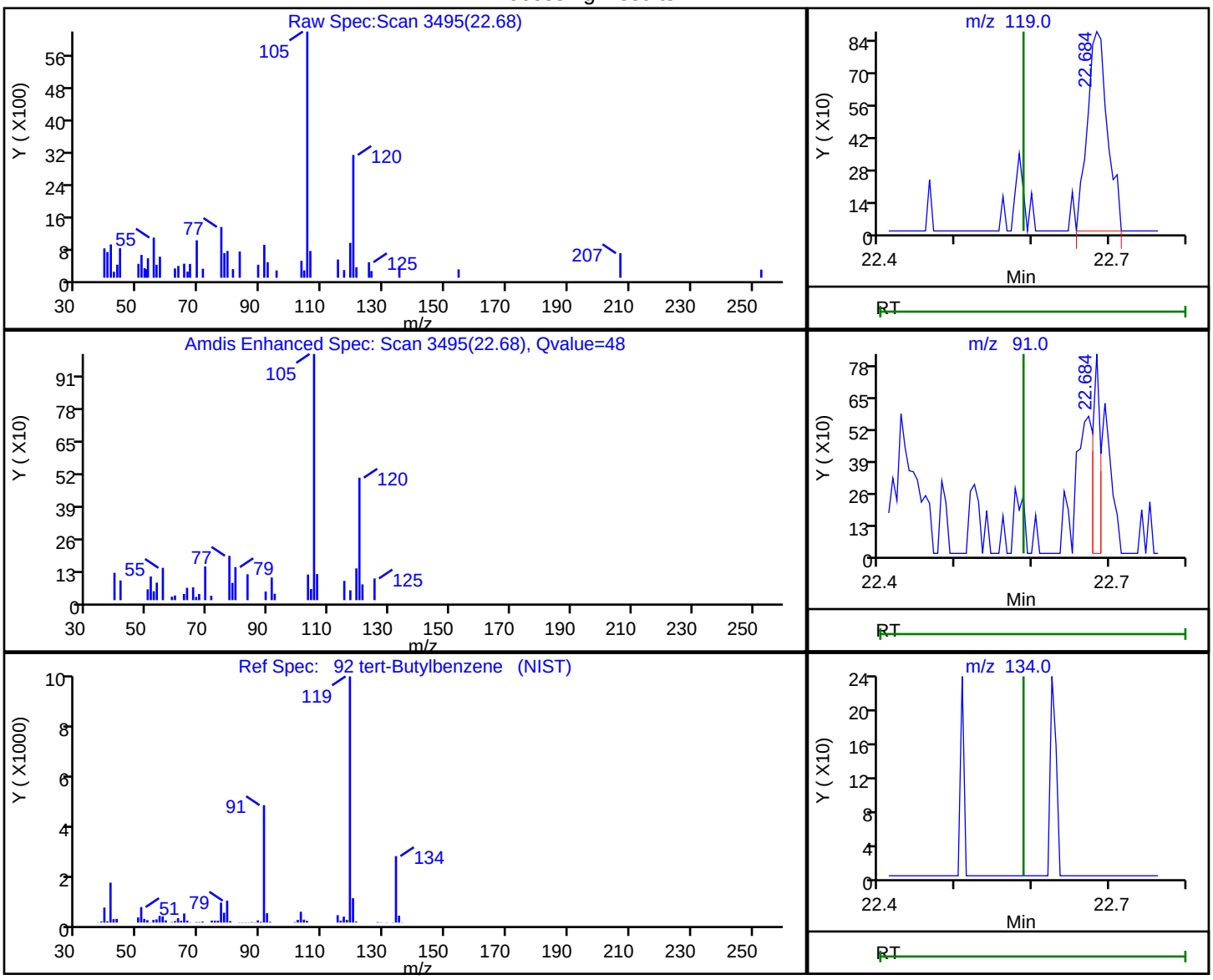
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
22.68	119.00	1595	0.009650
22.68	91.00	557	
22.59	134.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:47:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

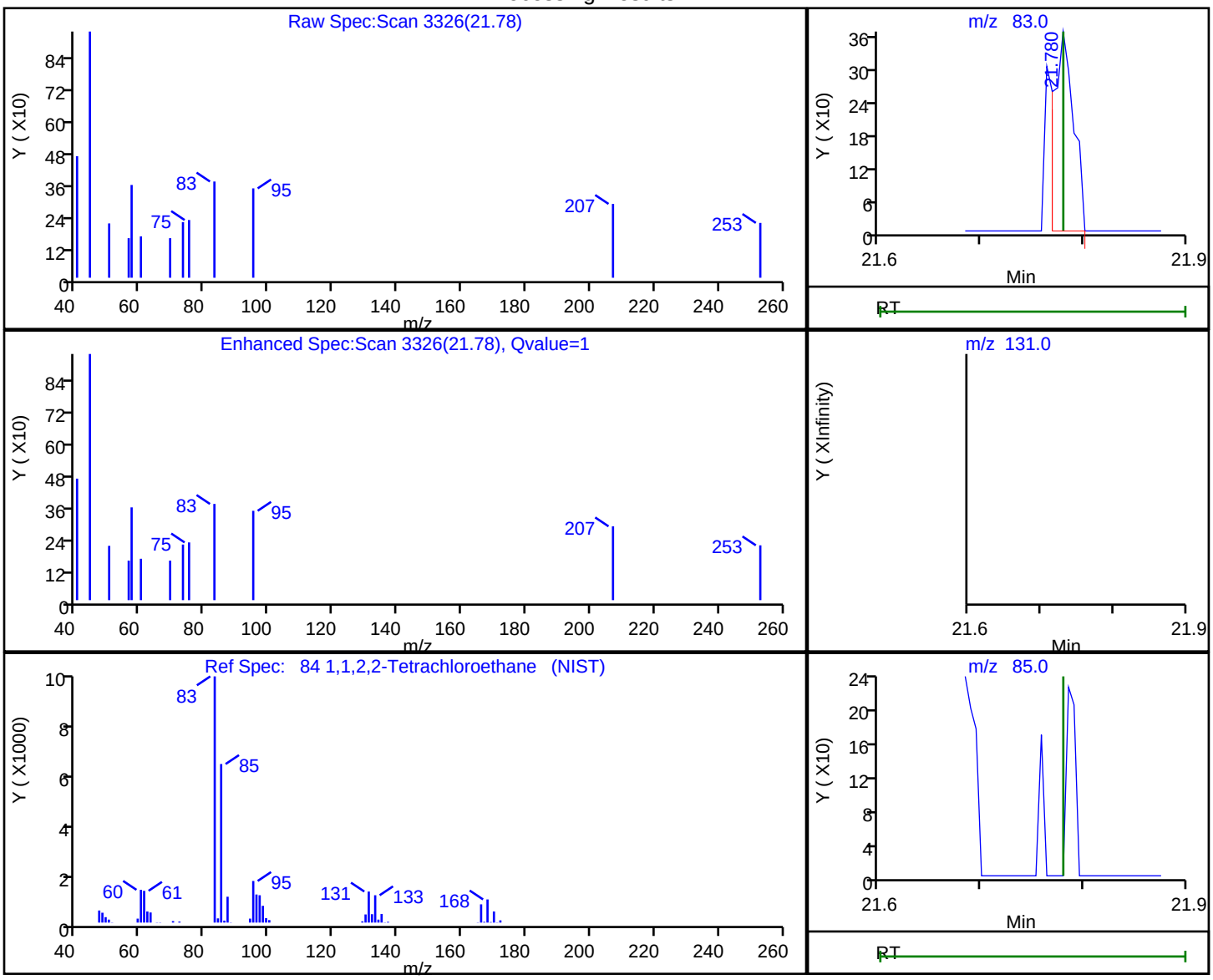
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
21.78	83.00	487	0.004022
21.78	131.00	0	
21.78	85.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:47:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

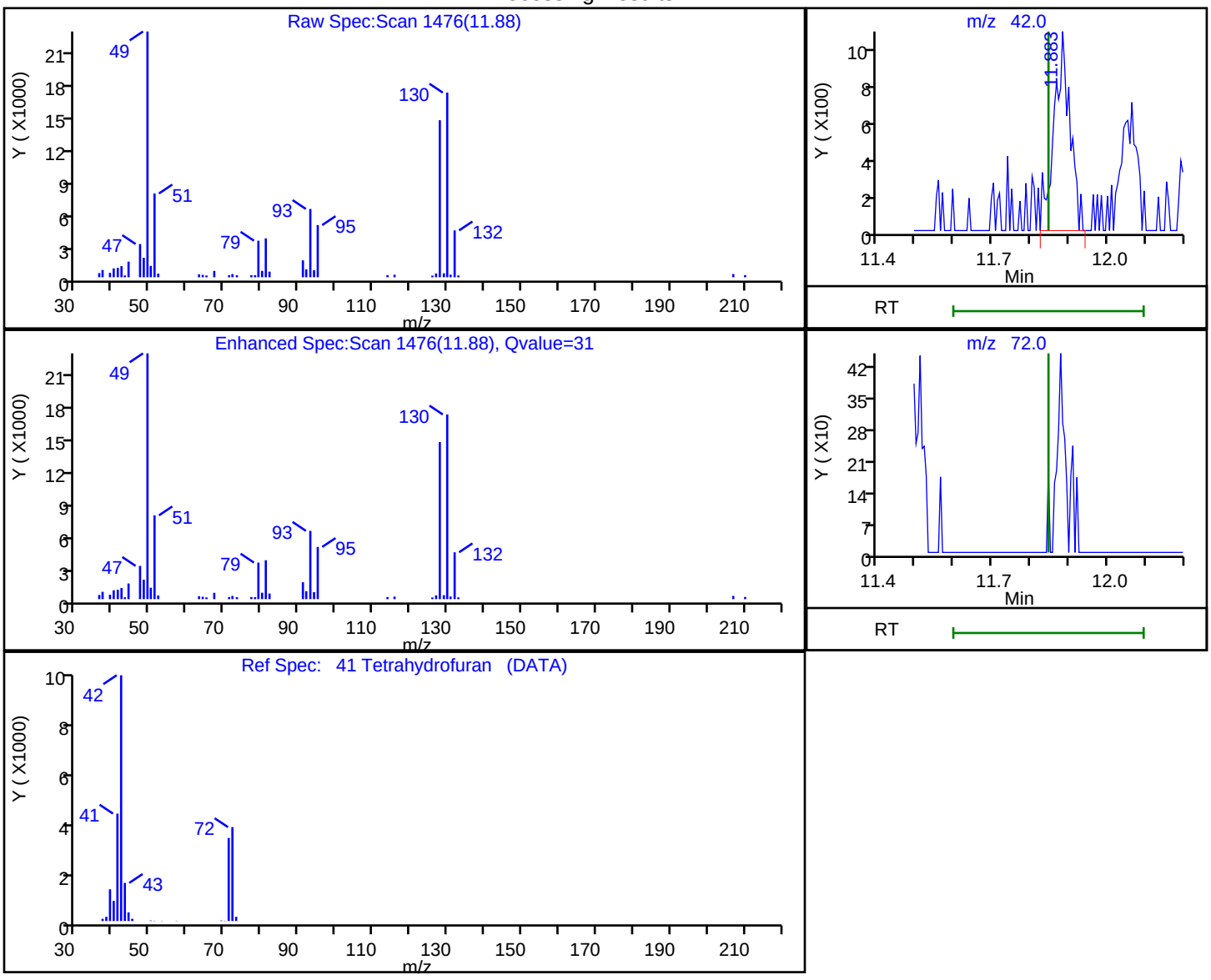
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
11.88	42.00	2915	0.057058
11.85	72.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:44:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

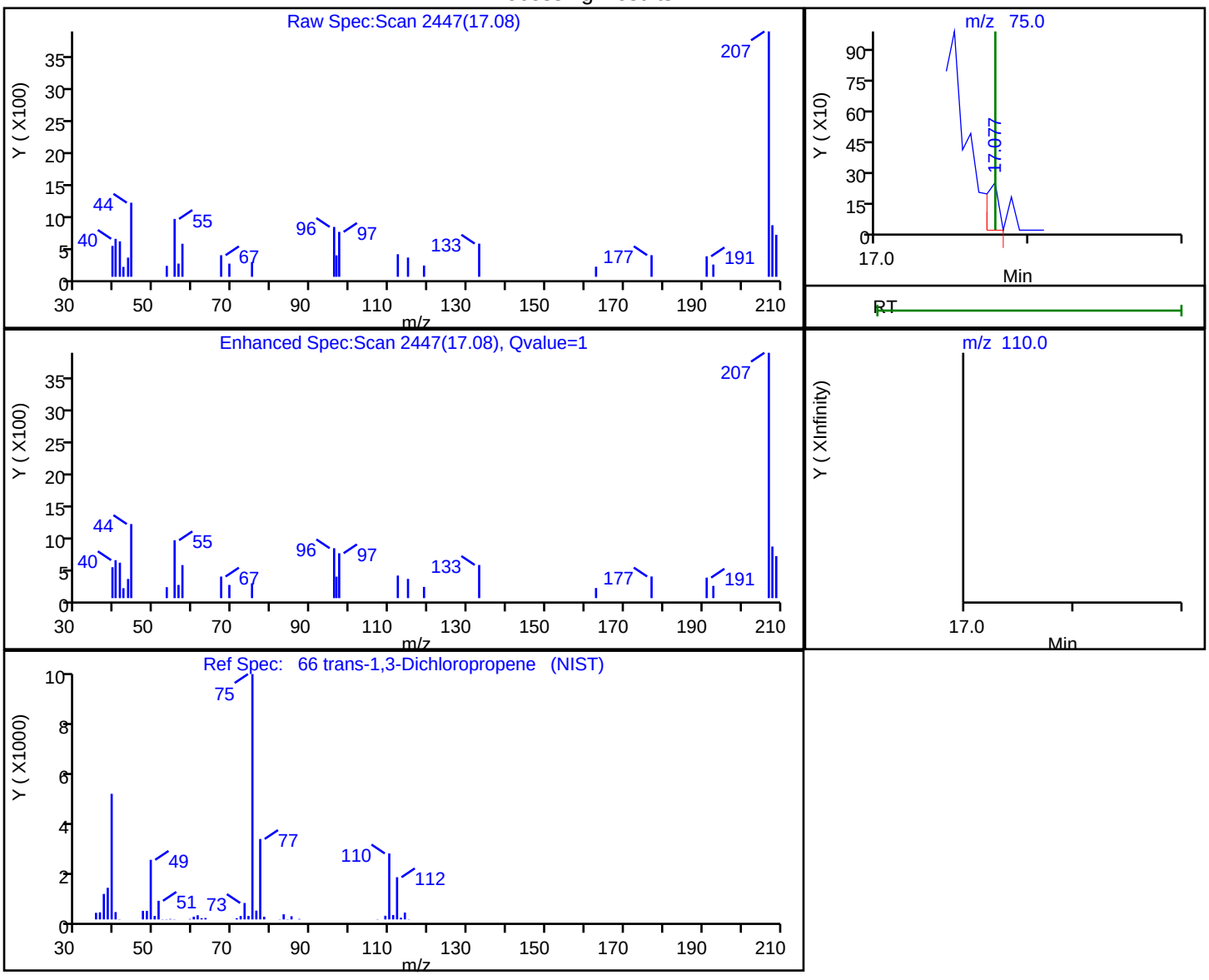
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
17.08	75.00	133	0.001747
17.08	110.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:45:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

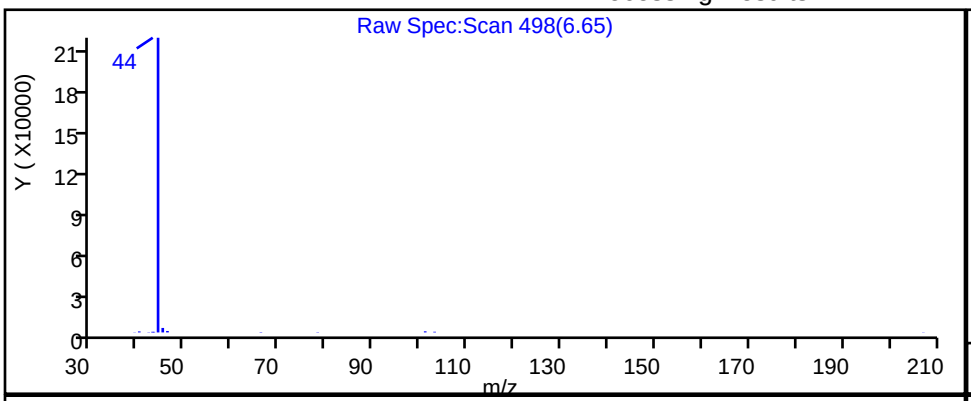
User Disabled Compound Report

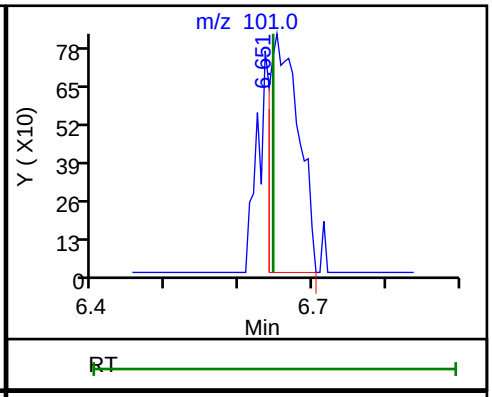
TestAmerica Burlington

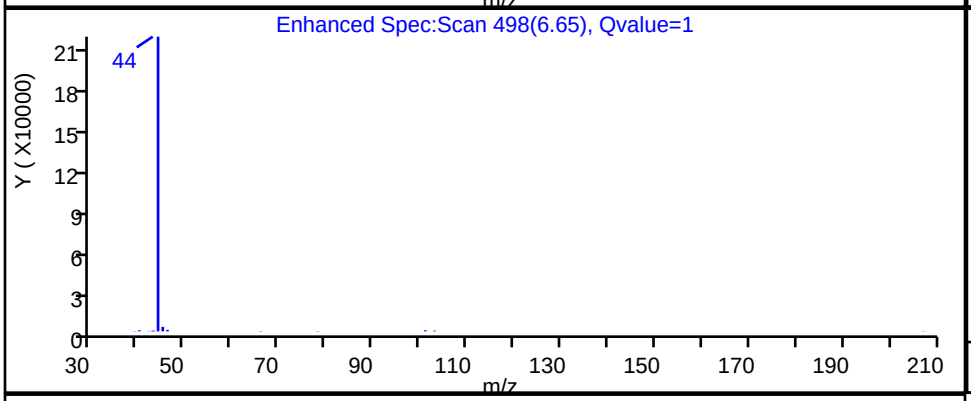
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

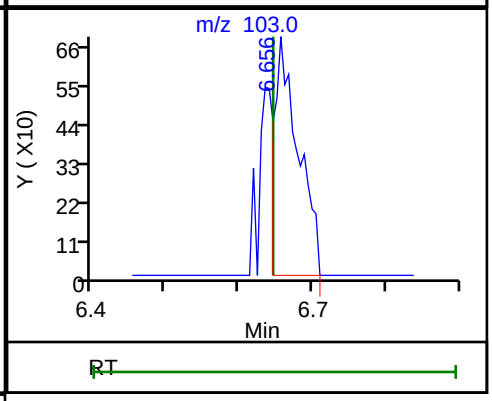
14 Trichlorofluoromethane, CAS: 75-69-4

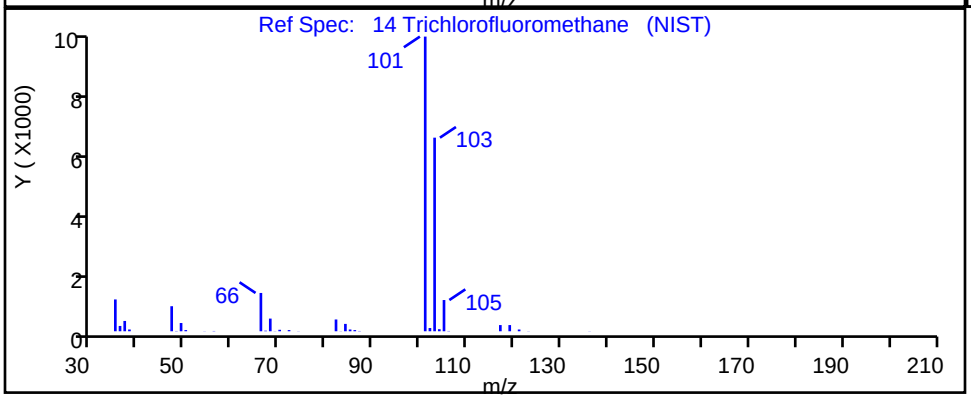
Processing Results











RT	Mass	Response	Amount
6.65	101.00	2232	0.023234
6.66	103.00	1541	

Reviewer: bunmaa, 13-Dec-2018 12:43:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

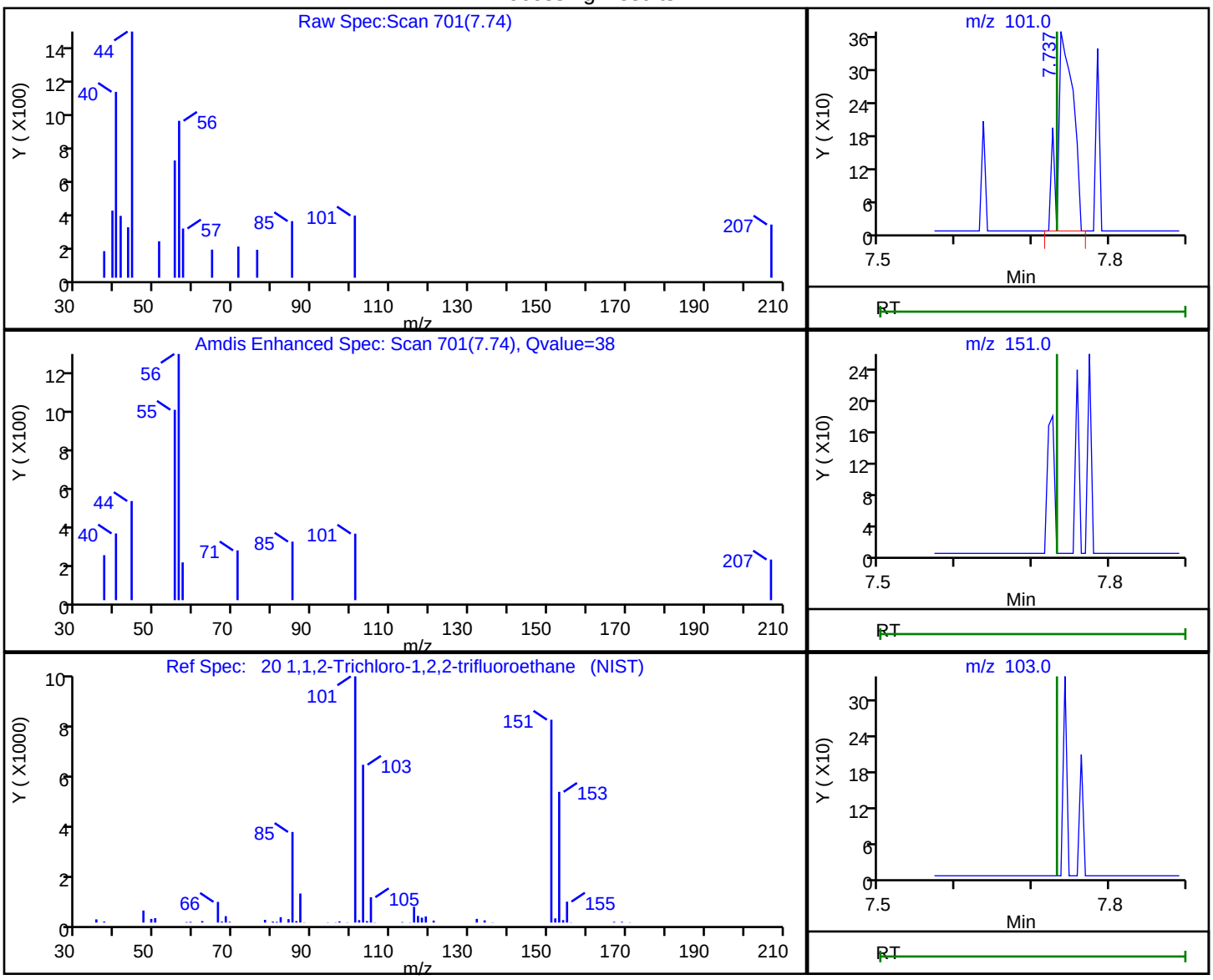
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
7.74	101.00	509	0.005764
7.73	151.00	0	
7.73	103.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:43:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

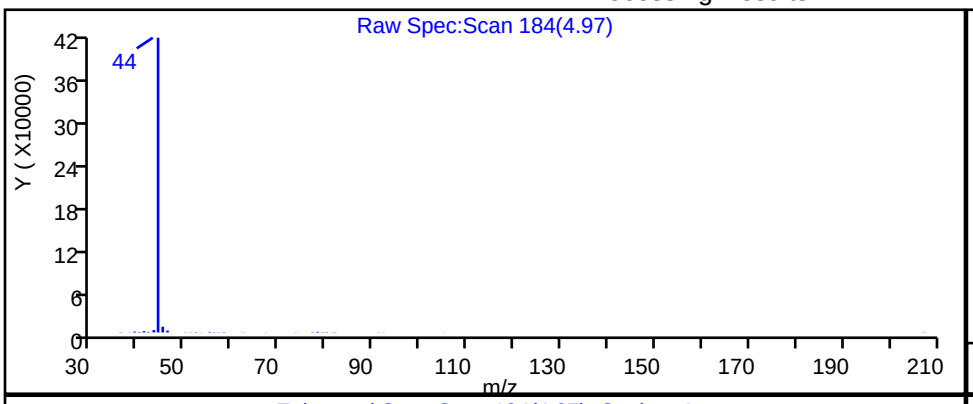
User Disabled Compound Report

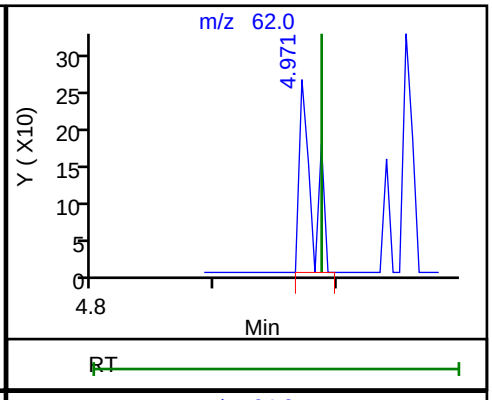
TestAmerica Burlington

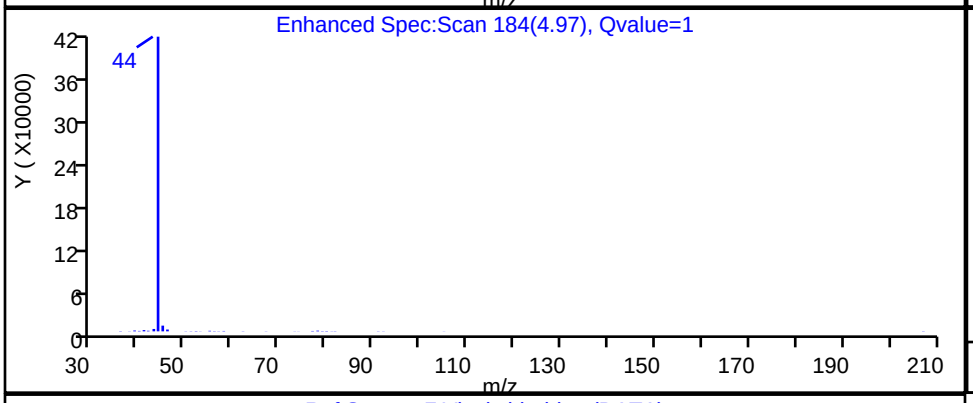
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D				
Injection Date:	12-Dec-2018 18:17:30	Instrument ID:	CHX.i		
Lims ID:	200-46373-A-1	Lab Sample ID:	200-46373-1		
Client ID:	9999-23 VP01-SV01-11202018				
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	10.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

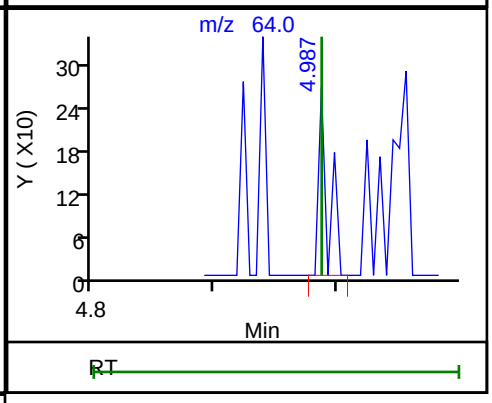
7 Vinyl chloride, CAS: 75-01-4

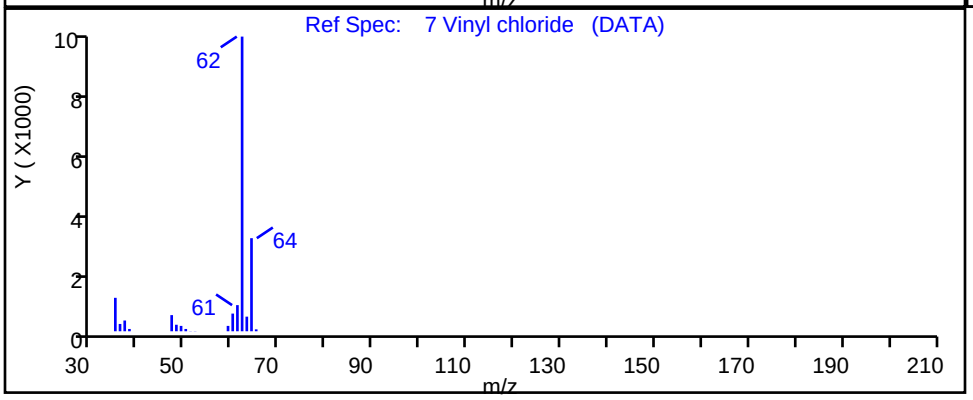
Processing Results











RT	Mass	Response	Amount
4.97	62.00	190	0.003502
4.99	64.00	142	

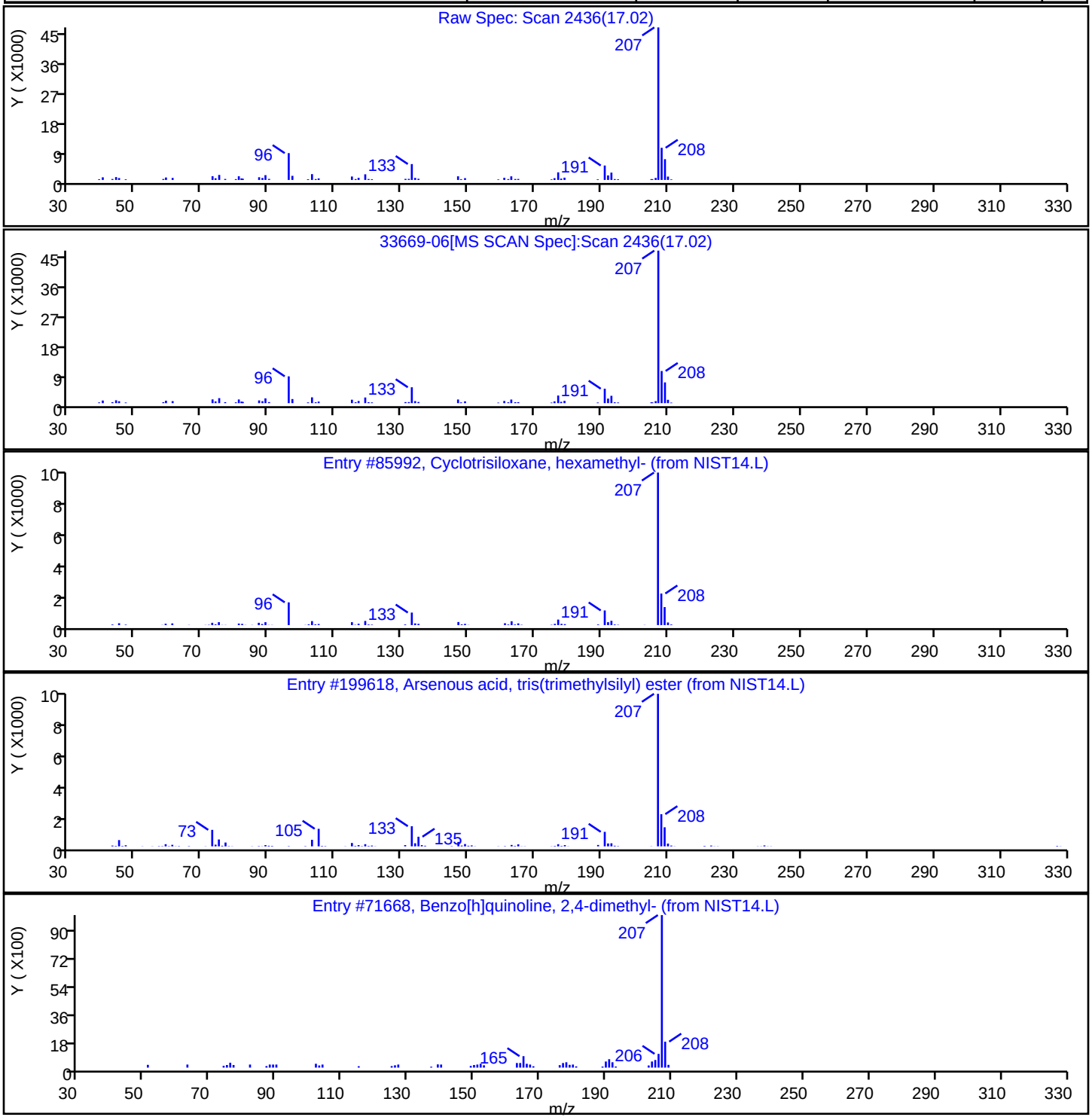
Reviewer: bunmaa, 13-Dec-2018 12:43:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-06.D
Injection Date: 12-Dec-2018 18:17:30 Instrument ID: CHX.i
Lims ID: 200-46373-A-1 Lab Sample ID: 200-46373-1
Client ID: 9999-23 VP01-SV01-11202018
Operator ID: GGG ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 10.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST14.L	85992	C6H18O3Si3	222	91
Arsenous acid, tris(trimethylsilyl) ester	55429-29-3	NIST14.L	199618	C9H27AsO3Si3	342	78
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST14.L	71668	C15H13N	207	42



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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-137920/4	33526-04.D
Level 2	IC 200-137920/5	33526-05.D
Level 3	IC 200-137920/6	33526-06.D
Level 4	IC 200-137920/7	33526-07.D
Level 5	ICIS 200-137920/8	33526-08.D
Level 6	IC 200-137920/16	33526-16.D
Level 7	IC 200-137920/15	33526-15.D
Level 8	IC 200-137920/11	33526-11.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								
Propylene	+++++ 0.9277	+++++ 0.8583	+++++ 0.8206	1.0531	0.9652	Ave		0.9250				9.9		30.0			
Dichlorodifluoromethane	+++++ 3.1389	+++++ 2.4896	3.9643 2.4417	3.4151	3.1908	Ave		3.1067				18.6		30.0			
Freon 22	+++++ 1.9120	+++++ 1.6555	2.5545 1.6017	2.1292	1.9462	Ave		1.9665				17.7		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 3.3824	4.1593 3.1582	4.1748 2.6487	3.6608	3.4286	Ave		3.5161				15.5		30.0			
Chloromethane	+++++ 1.1194	+++++ 1.0396	1.5503 0.9425	1.2647	1.1445	Ave		1.1768				18.0		30.0			
n-Butane	+++++ 2.4125	+++++ 2.0790	3.2749 2.1266	2.7728	2.5253	Ave		2.5319				17.6		30.0			
Vinyl chloride	2.7666 1.7203	2.0919 1.4957	2.1058 1.4847	1.9408	1.7934	Ave		1.9249				21.6		30.0			
Butadiene	2.6229 1.3223	1.7359 1.1579	1.6776 1.1671	1.5244	1.3975	Ave		1.5757				30.1	*	30.0			
Bromomethane	+++++ 1.3148	1.6361 1.1972	1.6013 1.1741	1.3610	1.2770	Ave		1.3659				13.5		30.0			
Chloroethane	+++++ 0.8271	+++++ 0.7510	1.0074 0.7234	0.8873	0.8070	Ave		0.8339				12.3		30.0			
Isopentane	+++++ 1.6986	2.2410 1.5768	2.3654 1.5397	1.8723	1.7278	Ave		1.8602				17.4		30.0			
Vinyl bromide	+++++ 1.2882	1.6495 1.1649	1.4938 1.1451	1.3298	1.2469	Ave		1.3312				13.7		30.0			
Trichlorofluoromethane	+++++ 3.3018	3.9214 3.0089	3.9747 3.0019	3.4409	3.2077	Ave		3.4082				11.7		30.0			
n-Pentane	+++++ 2.6560	+++++ 2.4680	3.6810 2.4068	2.8926	2.6869	Ave		2.7986				16.6		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

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								
Ethanol	+++++ 0.6920	+++++ 0.6345	+++++ 0.4631	0.6421	0.7691	Ave		0.6402				17.6		30.0			
Ethyl ether	+++++ 1.1208	1.3647 1.0306	1.3745 1.0027	1.2025	1.1169	Ave		1.1733				12.7		30.0			
Acrolein	+++++ 0.6449	+++++ 0.5980	+++++ 0.5153	0.6286	0.5843	Ave		0.5942				8.5		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 3.0397	3.6460 2.7802	3.6058 2.7761	3.1335	2.9477	Ave		3.1327				11.5		30.0			
1,1-Dichloroethene	2.3132 1.5198	1.8155 1.3777	1.7992 1.3667	1.5698	1.4691	Ave		1.6539				19.1		30.0			
Acetone	+++++ 2.3717	+++++ 2.1752	+++++ 2.0815	2.6578	2.4496	Ave		2.3471				9.7		30.0			
Carbon disulfide	+++++ 4.1826	+++++ 3.8098	5.0384 3.7540	4.4012	4.0980	Ave		4.2140				11.2		30.0			
Isopropyl alcohol	+++++ 2.4034	+++++ 2.1715	+++++ 1.9902	2.8590	2.5639	Ave		2.3976				14.1		30.0			
3-Chloro-1-propene	+++++ 2.0055	+++++ 1.8536	2.4741 1.6649	1.6945	1.5575	Ave		1.8750				17.8		30.0			
Acetonitrile	+++++ 1.1883	+++++ 1.1023	+++++ 1.0401	1.3439	1.2329	Ave		1.1815				10.0		30.0			
Methylene Chloride	+++++ 1.8580	+++++ 1.7114	2.4228 1.6569	2.0312	1.8766	Ave		1.9262				14.4		30.0			
2-Methyl-2-propanol	+++++ 3.1218	+++++ 2.8099	+++++ 2.6061	3.5131	3.2128	Ave		3.0527				11.6		30.0			
Methyl tert-butyl ether	+++++ 4.3764	5.2705 3.9893	5.2796 3.8824	4.5918	4.2694	Ave		4.5228				12.5		30.0			
trans-1,2-Dichloroethene	+++++ 2.3457	2.8899 2.1488	2.8601 2.1288	2.4753	2.3057	Ave		2.4506				12.8		30.0			
Acrylonitrile	+++++ 1.2325	+++++ 1.1356	1.5100 1.0974	1.3308	1.2449	Ave		1.2585				11.8		30.0			
Hexane	+++++ 2.5495	3.1113 2.3350	3.1773 2.2889	2.7315	2.5315	Ave		2.6750				13.2		30.0			
1,1-Dichloroethane	3.8537 2.8955	3.5008 2.6328	3.5492 2.5633	3.0478	2.8475	Ave		3.1113				15.1		30.0			
Vinyl acetate	+++++ 4.0165	+++++ 3.7178	+++++ 3.5761	4.2974	4.0176	Ave		3.9251				7.2		30.0			
cis-1,2-Dichloroethene	2.4976 1.6304	1.9115 1.4834	1.9302 1.4536	1.6939	1.5956	Ave		1.7745				19.2		30.0			
2-Butanone (MEK)	+++++ 0.9117	+++++ 0.8321	1.3104 0.8012	0.9601	0.8991	Ave		0.9524				19.4		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

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								
Ethyl acetate	+++++ 0.1754	+++++ 0.1595	+++++ 0.1514	0.1773	0.1673	Ave		0.1662				6.5		30.0			
Tetrahydrofuran	+++++ 0.4091	+++++ 0.3735	+++++ 0.3636	0.4528	0.4166	Ave		0.4031				8.9		30.0			
Chloroform	+++++ 3.1911	3.7853 2.9020	3.8440 2.8474	3.3422	3.1086	Ave		3.2887				12.1		30.0			
Cyclohexane	+++++ 0.4943	0.5764 0.4497	0.5711 0.4606	0.5097	0.4776	Ave		0.5056				10.0		30.0			
1,1,1-Trichloroethane	+++++ 0.7160	0.8181 0.6494	0.8105 0.6713	0.7362	0.6883	Ave		0.7271				9.1		30.0			
Carbon tetrachloride	0.8649 0.6857	0.7422 0.6166	0.7719 0.6393	0.6997	0.6621	Ave		0.7103				11.4		30.0			
Isooctane	+++++ 1.7355	2.0955 1.5854	2.1016 1.5927	1.8269	1.7097	Ave		1.8068				12.0		30.0			
Benzene	+++++ 1.0822	1.3043 0.9763	1.3046 0.9917	1.1152	1.0420	Ave		1.1166				12.3		30.0			
1,2-Dichloroethane	+++++ 0.4979	0.5927 0.4484	0.6058 0.4469	0.5190	0.4826	Ave		0.5133				12.5		30.0			
n-Heptane	+++++ 0.6721	0.8606 0.6160	0.8380 0.6108	0.7138	0.6698	Ave		0.7116				14.1		30.0			
n-Butanol	+++++ 0.2350	+++++ 0.2069	+++++ 0.2142	0.2659	0.2493	Ave		0.2342				10.4		30.0			
Trichloroethene	0.6891 0.4802	0.5500 0.4351	0.5552 0.4412	0.4868	0.4590	Ave		0.5121				16.5		30.0			
1,2-Dichloropropane	+++++ 0.4383	0.5192 0.4000	0.5275 0.3962	0.4587	0.4301	Ave		0.4529				11.7		30.0			
Methyl methacrylate	+++++ 0.4308	+++++ 0.3919	0.4717 0.3845	0.4370	0.4159	Ave		0.4220				7.6		30.0			
1,4-Dioxane	+++++ 0.2269	+++++ 0.2000	+++++ 0.1941	0.2620	0.2458	Ave		0.2258				12.9		30.0			
Dibromomethane	+++++ 0.3778	0.4403 0.3436	0.4495 0.3512	0.3892	0.3720	Ave		0.3891				10.6		30.0			
Dichlorobromomethane	+++++ 0.7762	0.8359 0.7038	0.8097 0.7045	0.7812	0.7411	Ave		0.7646				6.6		30.0			
cis-1,3-Dichloropropene	+++++ 0.6487	0.7163 0.5910	0.7108 0.5859	0.6562	0.6229	Ave		0.6474				8.1		30.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.8816	+++++ 0.8002	1.0674 0.8061	0.9415	0.8915	Ave		0.8980				11.0		30.0			
Toluene	+++++ 0.8451	0.9575 0.7759	0.9888 0.7727	0.8539	0.8041	Ave		0.8569				10.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

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								
n-Octane	+++++ 0.9433	1.0712 0.8679	1.1193 0.8338	0.9963	0.9417	Ave		0.9676				10.6		30.0			
trans-1,3-Dichloropropene	+++++ 0.6025	0.6799 0.5499	0.6727 0.5382	0.5983	0.5638	Ave		0.6007				9.4		30.0			
1,1,2-Trichloroethane	0.5873 0.4456	0.5157 0.4074	0.5203 0.4040	0.4606	0.4304	Ave		0.4714				13.6		30.0			
Tetrachloroethene	0.9089 0.6069	0.6724 0.5562	0.6870 0.5537	0.6197	0.5847	Ave		0.6487				17.9		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.9204	+++++ 0.8449	1.1117 0.8526	0.9569	0.9106	Ave		0.9329				10.4		30.0			
Chlorodibromomethane	+++++ 0.7928	0.7561 0.7289	0.5874 0.7176	0.7607	0.7292	Ave		0.7247				9.1		30.0			
Ethylene Dibromide	+++++ 0.7284	0.7893 0.6666	0.8035 0.6633	0.7367	0.6951	Ave		0.7261				7.7		30.0			
Chlorobenzene	+++++ 1.0392	1.1945 0.9419	1.2207 0.9446	1.0610	0.9969	Ave		1.0570				10.6		30.0			
Ethylbenzene	+++++ 1.8120	1.9969 1.6478	2.0284 1.6779	1.8183	1.7318	Ave		1.8162				8.2		30.0			
n-Nonane	+++++ 0.9921	1.0951 0.9046	1.1681 0.9330	1.0091	0.9660	Ave		1.0097				9.2		30.0			
m-Xylene & p-Xylene	+++++ 0.6926	0.7412 0.6316	0.7662 0.6495	0.6832	0.6600	Ave		0.6892				7.1		30.0			
o-Xylene	+++++ 0.6780	0.7366 0.6177	0.7457 0.6360	0.6844	0.6549	Ave		0.6790				7.1		30.0			
Styrene	+++++ 1.1033	1.0426 1.0148	1.0960 1.0509	1.0826	1.0520	Ave		1.0632				3.0		30.0			
Bromoform	+++++ 0.7461	0.5785 0.6902	0.1812 0.6777	0.6413	0.6348	Ave		0.5928				31.9	*	30.0			
Cumene	+++++ 1.9300	2.0615 1.7598	2.1413 1.7995	1.9227	1.8528	Ave		1.9239				7.2		30.0			
1,1,2,2-Tetrachloroethane	+++++ 1.1069	1.1887 0.9875	1.2290 1.0338	1.1182	1.0669	Ave		1.1044				7.7		30.0			
n-Propylbenzene	+++++ 2.4017	2.5395 2.1639	2.6432 2.2174	2.4012	2.3130	Ave		2.3828				7.1		30.0			
1,2,3-Trichloropropane	+++++ 0.9119	+++++ 0.8061	1.0372 0.8489	0.9182	0.8795	Ave		0.9003				8.8		30.0			
n-Decane	+++++ 1.2574	+++++ 1.1140	1.3944 1.2166	1.2911	1.2508	Ave		1.2540				7.3		30.0			
1,3,5-Trimethylbenzene	+++++ 1.9940	2.0067 1.8394	2.1142 1.8534	1.9265	1.9235	Ave		1.9511				4.9		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

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								
2-Chlorotoluene	+++++ 1.7771	1.7619 1.6173	1.9331 1.6551	1.7501	1.7025	Ave		1.7424				5.9		30.0			
4-Ethyltoluene	+++++ 1.6445	1.6620 1.4966	1.7686 1.5610	1.6183	1.5848	Ave		1.6194				5.3		30.0			
Alpha Methyl Styrene	+++++ 0.8458	0.7356 0.7761	0.8035 0.8085	0.8269	0.8162	Ave		0.8018				4.5		30.0			
tert-Butylbenzene	+++++ 1.5037	1.5955 1.3793	1.6659 1.4326	1.5136	1.4629	Ave		1.5076				6.5		30.0			
1,2,4-Trimethylbenzene	+++++ 1.6317	1.6309 1.4944	1.8408 1.5729	1.6292	1.5780	Ave		1.6254				6.6		30.0			
sec-Butylbenzene	+++++ 2.3584	2.4897 2.1548	2.6162 2.2156	2.3575	2.2902	Ave		2.3546				6.7		30.0			
4-Isopropyltoluene	+++++ 1.9421	1.8779 1.7913	2.1038 1.8843	1.9253	1.8840	Ave		1.9155				5.0		30.0			
1,3-Dichlorobenzene	+++++ 1.0391	1.0072 0.9622	1.0943 1.0118	1.0153	0.9921	Ave		1.0174				4.1		30.0			
1,4-Dichlorobenzene	+++++ 1.0013	0.9561 0.9284	1.0651 0.9789	0.9686	0.9630	Ave		0.9802				4.4		30.0			
Benzyl chloride	+++++ 1.4181	0.9493 1.2442	1.2145 1.4247	1.2816	1.3096	Ave		1.2631				12.7		30.0			
n-Butylbenzene	+++++ 2.0822	1.8697 1.9324	2.0832 1.8821	2.0228	2.0232	Ave		1.9851				4.5		30.0			
n-Undecane	+++++ 1.3918	+++++ 1.2760	1.5516 1.2972	1.4154	1.3958	Ave		1.3880				7.1		30.0			
1,2-Dichlorobenzene	+++++ 0.9996	1.0088 0.8824	1.1175 0.9779	1.0008	0.9714	Ave		0.9941				7.0		30.0			
n-Dodecane	+++++ 1.1871	+++++ 1.0294	1.3941 1.2972	1.2751	1.2149	Ave		1.2330				10.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.6545	+++++ 0.5885	0.6565 0.7243	0.6033	0.6326	Ave		0.6433				7.5		30.0			
Hexachlorobutadiene	+++++ 0.7372	0.8142 0.6611	0.8427 0.7698	0.7583	0.7464	Ave		0.7614				7.6		30.0			
Naphthalene	+++++ 1.4237	+++++ 1.2716	2.0471 1.6465	1.4404	1.4584	Ave		1.5480				17.6		30.0			
1,2,3-Trichlorobenzene	+++++ 0.6295	+++++ 0.5654	0.8413 0.7069	0.6399	0.6391	Ave		0.6704				14.2		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-137920/4	33526-04.D
Level 2	IC 200-137920/5	33526-05.D
Level 3	IC 200-137920/6	33526-06.D
Level 4	IC 200-137920/7	33526-07.D
Level 5	ICIS 200-137920/8	33526-08.D
Level 6	IC 200-137920/16	33526-16.D
Level 7	IC 200-137920/15	33526-15.D
Level 8	IC 200-137920/11	33526-11.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 498410	+++++ 653920	+++++ 1232352	174465	325536	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 1686407	+++++ 1896755	62839 3666949	565744	1076222	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 1027212	+++++ 1261321	40493 2405343	352730	656430	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	BCM	Ave	+++++ 1817223	28542 2406197	66176 3977785	606450	1156413	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 601412	+++++ 792047	24574 1415498	209504	386019	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 1296141	+++++ 1583944	51911 3193715	459351	851768	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	3466 924258	14355 1139578	33379 2229740	321509	604894	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Butadiene	BCM	Ave	3286 710402	11912 882216	26592 1752785	252539	471348	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 706364	11227 912120	25383 1763257	225461	430720	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 444345	+++++ 572211	15968 1086339	146993	272204	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 912602	15378 1201329	37494 2312239	310162	582765	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl bromide	BCM	Ave	+++++ 692119	11319 887491	23678 1719685	220297	420576	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 1773891	26909 2292437	63005 4508248	570022	1081928	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 1426968	+++++ 1880338	58348 3614459	479190	906273	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 743716	+++++ 966970	+++++ 1738597	212887	389289	+++++ 30.0	+++++ 40.0	+++++ 100.0	9.99	15.0

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 602181	9365 785231	21788 1505876	199210	376734	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 346495	+++++ 455608	+++++ 773807	104137	197086	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	+++++ 1633120	25019 2118195	57156 4169048	519101	994227	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	2898 816510	12458 1049640	28520 2052483	260057	495513	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 1274203	+++++ 1657237	+++++ 3125993	440285	826215	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 2247142	+++++ 2902589	79865 5637779	729106	1382212	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 1291254	+++++ 1654425	+++++ 2988872	473628	864761	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
3-Chloro-1-propene	BCM	Ave	+++++ 1077478	+++++ 1412210	39217 2500254	280713	525333	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 638416	+++++ 839791	+++++ 1562007	222635	415856	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 998221	+++++ 1303859	38405 2488352	336485	632972	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
2-Methyl-2-propanol	BCM	Ave	+++++ 1677214	+++++ 2140788	+++++ 3913801	581989	1083645	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 2351262	36167 3039410	83689 5830542	760681	1440028	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 1260259	19831 1637148	45337 3196946	410058	777683	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 662143	+++++ 865222	23935 1647994	220457	419902	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexane	BCM	Ave	+++++ 1369708	21350 1779001	50364 3437426	452505	853835	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	4828 1555607	24023 2005852	56260 3849574	504898	960425	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 2157876	+++++ 2832498	+++++ 5370517	711914	1355096	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	3129 875949	13117 1130173	30597 2183063	280611	538172	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Butanone (MEK)	BCM	Ave	+++++ 489805	+++++ 633962	20772 1203288	159043	303271	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 94217	+++++ 121511	+++++ 227417	29373	56427	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFBZ	Ave	+++++ 982752	+++++ 1280252	+++++ 2376296	339033	634642	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 1714459	25975 2210969	60933 4276148	553675	1048502	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	+++++ 1187326	18018 1541350	41030 3010362	381673	727622	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	+++++ 1719822	25572 2225944	58229 4387355	551219	1048581	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	4916 1647134	23201 2113644	55457 4178605	523864	1008610	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Isooctane	DFBZ	Ave	+++++ 4168780	65504 5434555	150986 10409722	1367856	2604432	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	+++++ 2599461	40771 3346696	93728 6481619	834976	1587404	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	+++++ 1195873	18528 1536916	43522 2920743	388591	735162	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	+++++ 1614451	26903 2111517	60208 3992381	534464	1020302	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	+++++ 564373	+++++ 709309	+++++ 1399856	199075	379751	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	3917 1153483	17194 1491576	39889 2883591	364510	699283	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	+++++ 1052839	16230 1370968	37899 2589772	343449	655196	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	+++++ 1034855	+++++ 1343302	33891 2513310	327238	633520	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	+++++ 545105	+++++ 685536	+++++ 1268753	196187	374381	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	+++++ 907539	13762 1177720	32292 2295206	291400	566637	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Dichlorobromomethane	DFBZ	Ave	+++++ 1864326	26128 2412487	58175 4604773	584884	1128888	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	+++++ 1558288	22390 2025916	51069 3829099	491314	948895	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	+++++ 2117521	+++++ 2742811	76684 5268654	704972	1358070	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	+++++ 1845957	26810 2400499	64249 4533190	583193	1124735	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	+++++ 2265810	33485 2974926	80418 5449480	745978	1434492	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	+++++ 1447167	21252 1884822	48326 3517443	447994	858822	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	3023 973256	14439 1260290	33806 2369963	314572	601975	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	4678 1325692	18828 1720679	44640 3248325	423209	817852	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	+++++ 2010457	+++++ 2613823	72240 5001664	653492	1273761	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Chlorodibromomethane	CBNZ d5	Ave	+++++ 1731581	21171 2254965	38170 4209491	519490	1019927	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylene Dibromide	CBNZ d5	Ave	+++++ 1591072	22100 2062074	52209 3891473	503136	972365	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	+++++ 2269839	33445 2913871	79318 5541451	724605	1394519	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	+++++ 3957881	55912 5097841	131806 9843384	1241779	2422453	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	+++++ 2166959	30661 2798502	75903 5473125	689197	1351269	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 3025780	41507 3907847	99576 7620944	933209	1846264	+++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
o-Xylene	CBNZ d5	Ave	+++++ 1481006	20625 1911091	48454 3730816	467417	916002	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	+++++ 2409990	29191 3139543	71219 6165333	739335	1471471	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	+++++ 1629732	16197 2135262	11776 3975613	437990	887937	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	+++++ 4215617	57719 5444065	139141 10556704	1313097	2591685	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 2417730	33282 3055045	79861 6064947	763675	1492318	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	+++++ 5245858	71104 6694487	171755 13008019	1639892	3235348	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	+++++ 1991841	+++++ 2493671	67399 4979888	627110	1230275	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	+++++ 2746412	+++++ 3446255	90609 7137158	881761	1749618	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	+++++ 4355375	56185 5690610	137381 10873162	1315741	2690528	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	+++++ 3881543	49333 5003458	125609 9709474	1195205	2381378	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	+++++ 3592003	46535 4629902	114920 9157709	1105195	2216796	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	+++++ 1847545	20595 2400839	52212 4743231	564711	1141636	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	+++++ 3284491	44673 4267071	108251 8404186	1033693	2046298	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1 Analy Batch No.: 137920

SDG No.: EJ1815811

Instrument ID: CHX.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/07/2018 22:39 Calibration End Date: 12/08/2018 14:05 Calibration ID: 40775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	+++++ 3564024	45663 4623267	119617 9227595	1112665	2207341	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	+++++ 5151259	69709 6666343	170000 12997580	1610068	3203490	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	+++++ 4242141	52579 5541704	136702 11054466	1314914	2635371	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	+++++ 2269624	28201 2976651	71104 5935742	693371	1387700	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	+++++ 2187051	26769 2872211	69209 5742559	661535	1347090	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	+++++ 3097428	26580 3849046	78920 8357790	875253	1831906	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	+++++ 4548143	52349 5978147	135364 11041288	1381474	2830065	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	+++++ 3040114	+++++ 3947565	100825 7609700	966636	1952461	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	+++++ 2183310	28246 2729888	72613 5736761	683522	1358808	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	+++++ 2592881	+++++ 3184449	90586 7610053	870829	1699411	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	+++++ 1429645	+++++ 1820508	42662 4249167	412019	884859	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	+++++ 1610267	22796 2045091	54756 4515982	517868	1044061	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	+++++ 3109823	+++++ 3934003	133019 9659413	983710	2040061	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	+++++ 1375052	+++++ 1749300	54665 4147044	437034	893952	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Dec-2018 22:39:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-004
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:22 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 10:38:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.094	4.094	0.000	31	3765	0.0351	0.1140	
2 Dichlorodifluoromethane	85	4.185	4.185	0.000	98	5647	0.0351	0.0509	
3 Chlorodifluoromethane	51	4.249	4.249	0.000	96	3722	0.0351	0.0530	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.522	4.516	0.006	92	3475	0.0351	0.0277	
5 Chloromethane	50	4.704	4.704	0.000	7	2697	0.0351	0.0642	
6 Butane	43	4.939	4.939	0.000	49	5586	0.0351	0.0618	
7 Vinyl chloride	62	5.003	4.998	0.005	1	3466	0.0351	0.0504	
8 Butadiene	54	5.094	5.084	0.010	83	3286	0.0351	0.0584	
10 Bromomethane	94	5.870	5.875	-0.005	97	2562	0.0351	0.0525	
11 Chloroethane	64	6.132	6.132	0.000	17	1735	0.0351	0.0583	
12 2-Methylbutane	43	6.196	6.196	0.000	82	1983	0.0351	0.0298	
13 Vinyl bromide	106	6.565	6.555	0.010	84	2191	0.0351	0.0461	
14 Trichlorofluoromethane	101	6.656	6.651	0.005	96	5588	0.0351	0.0459	M
16 Pentane	43	6.790	6.785	0.005	96	6039	0.0351	0.0604	
17 Ethanol	45	7.229	7.223	0.006	99	10980	0.0702	0.4802	
18 Ethyl ether	59	7.320	7.320	0.000	48	1664	0.0351	0.0397	
19 Acrolein	56	7.732	7.726	0.006	82	2733	0.0351	0.1288	
20 1,1,2-Trichloro-1,2,2-trif	101	7.732	7.737	-0.005	93	3427	0.0351	0.0306	
21 1,1-Dichloroethene	96	7.812	7.801	0.011	82	2898	0.0351	0.0491	
22 Acetone	43	8.053	8.042	0.011	95	17063	0.0351	0.2035	
23 Carbon disulfide	76	8.224	8.224	0.000	99	8252	0.0351	0.0548	
24 Isopropyl alcohol	45	8.325	8.309	0.016	99	15482	0.0351	0.1808	
25 3-Chloro-1-propene	41	8.593	8.604	-0.011	95	4413	0.0351	0.0659	
26 Acetonitrile	41	8.753	8.748	0.005	75	4228	0.0351	0.1002	
27 Methylene Chloride	49	8.898	8.909	-0.011	95	4565	0.0351	0.0664	M
28 2-Methyl-2-propanol	59	9.128	9.101	0.027	93	5236	0.0351	0.0480	
29 Methyl tert-butyl ether	73	9.331	9.304	0.027	95	7897	0.0351	0.0489	
31 trans-1,2-Dichloroethene	61	9.353	9.353	-0.001	87	4242	0.0351	0.0485	
32 Acrylonitrile	53	9.529	9.524	0.005	78	2259	0.0351	0.0503	M
S 30 1,2-Dichloroethene, Total	61				0		0.0702	0.0978	
33 Hexane	57	9.732	9.732	0.000	89	4672	0.0351	0.0489	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63	10.262	10.257	0.005	24	4828	0.0351	0.0434	
35 Vinyl acetate	43	10.321	10.316	0.005	94	6546	0.0351	0.0467	
37 cis-1,2-Dichloroethene	96	11.369	11.380	-0.011	95	3129	0.0351	0.0494	M
38 2-Butanone (MEK)	72	11.434	11.418	0.016	96	1658	0.0351	0.0487	
39 Ethyl acetate	88		11.439				ND	ND	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	95	357163	10.0	10.0	
41 Tetrahydrofuran	42	11.878	11.846	0.032	32	4427	0.0351	0.0678	
42 Chloroform	83	11.958	11.953	0.005	94	5266	0.0351	0.0448	M
43 Cyclohexane	84	12.204	12.204	0.000	89	4059	0.0351	0.0495	M
44 1,1,1-Trichloroethane	97	12.225	12.225	0.000	96	5682	0.0351	0.0482	
45 Carbon tetrachloride	117	12.461	12.471	-0.010	94	4916	0.0351	0.0427	
46 Isooctane	57	12.851	12.857	-0.006	98	14162	0.0351	0.0484	
47 Benzene	78	12.915	12.916	-0.001	96	10043	0.0351	0.0555	
48 1,2-Dichloroethane	62	13.081	13.087	-0.006	94	4136	0.0351	0.0497	
49 n-Heptane	43	13.210	13.204	0.006	93	5425	0.0351	0.0470	
* 50 1,4-Difluorobenzene	114	13.680	13.675	0.005	97	1620392	10.0	10.0	
52 n-Butanol	56	14.028	14.002	0.026	74	3533	0.0351	0.0931	
A 51 GRO	1	14.092	(6.186-21.993)		0	7508703	0.0351	0	
53 Trichloroethene	95	14.103	14.114	-0.011	89	3917	0.0351	0.0472	
54 1,2-Dichloropropane	63	14.627	14.627	0.000	88	3942	0.0351	0.0537	M
55 Methyl methacrylate	69	14.756	14.745	0.011	90	3478	0.0351	0.0509	
56 1,4-Dioxane	88	14.863	14.820	0.043	86	4419	0.0351	0.1208	M
57 Dibromomethane	174	14.857	14.868	-0.011	91	3021	0.0351	0.0479	
58 Dichlorobromomethane	83	15.130	15.125	0.005	95	5445	0.0351	0.0439	M
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	8458775	0.0351	0	
60 cis-1,3-Dichloropropene	75	15.981	15.976	0.005	92	4708	0.0351	0.0449	
61 4-Methyl-2-pentanone (MIBK	43	16.248	16.227	0.021	96	9248	0.0351	0.0636	
65 Toluene	92	16.526	16.521	0.005	91	6468	0.0351	0.0514	
64 n-Octane	43	16.532	16.537	-0.005	86	7898	0.0351	0.0504	
66 trans-1,3-Dichloropropene	75	17.077	17.078	-0.001	48	2127	0.0351	0.0219	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	44	3023	0.0351	0.0437	M
68 Tetrachloroethene	166	17.538	17.538	0.000	88	4678	0.0351	0.0491	
69 2-Hexanone	43	17.859	17.843	0.016	94	9652	0.0351	0.0705	M
71 Chlorodibromomethane	129	18.174	18.169	0.005	90	4414	0.0351	0.0415	
72 Ethylene Dibromide	107	18.447	18.436	0.011	93	4382	0.0351	0.0411	
* 74 Chlorobenzene-d5	117	19.287	19.287	0.000	92	1467327	10.0	10.0	
75 Chlorobenzene	112	19.351	19.346	0.005	83	8503	0.0351	0.0548	
76 Ethylbenzene	91	19.474	19.480	-0.006	99	12921	0.0351	0.0485	M
77 n-Nonane	57	19.565	19.571	-0.006	91	6632	0.0351	0.0448	
S 73 Xylenes, Total	106				0		0.1052	0.1398	
78 m-Xylene & p-Xylene	106	19.726	19.720	0.006	0	9234	0.0702	0.0913	M
79 o-Xylene	106	20.523	20.523	0.000	96	4833	0.0351	0.0485	
80 Styrene	104	20.582	20.571	0.011	78	6586	0.0351	0.0422	
81 Bromoform	173	20.972	20.978	-0.006	93	3537	0.0351	0.0407	
82 Isopropylbenzene	105	21.154	21.154	0.000	97	12846	0.0351	0.0455	
84 1,1,2,2-Tetrachloroethane	83	21.775	21.775	0.000	96	7566	0.0351	0.0467	
85 N-Propylbenzene	91	21.833	21.839	-0.006	98	15622	0.0351	0.0447	
86 1,2,3-Trichloropropane	75	21.871	21.876	-0.005	96	5610	0.0351	0.0425	
87 n-Decane	57	21.989	21.983	0.005	95	7904	0.0351	0.0430	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	74	11574	0.0351	0.0404	M
89 2-Chlorotoluene	91	22.031	22.037	-0.006	97	12355	0.0351	0.0483	
88 4-Ethyltoluene	105	22.117	22.117	0.000	90	10261	0.0351	0.0432	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 Alpha Methyl Styrene	118	22.470	22.470	0.000	81	4023	0.0351	0.0342	
92 tert-Butylbenzene	119	22.593	22.588	0.005	91	10117	0.0351	0.0457	
93 1,2,4-Trimethylbenzene	105	22.679	22.679	0.000	96	10901	0.0351	0.0457	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	15851	0.0351	0.0459	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	95	12558	0.0351	0.0447	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	96	5982	0.0351	0.0401	
97 1,4-Dichlorobenzene	146	23.272	23.273	-0.001	86	5670	0.0351	0.0394	
98 Benzyl chloride	91	23.470	23.470	0.000	97	5253	0.0351	0.0283	
100 n-Butylbenzene	91	23.679	23.674	0.005	94	12052	0.0351	0.0414	
99 Undecane	57	23.674	23.679	-0.005	86	7314	0.0351	0.0359	
101 1,2-Dichlorobenzene	146	23.818	23.813	0.005	91	6718	0.0351	0.0461	
102 Dodecane	57	25.289	25.284	0.005	93	4856	0.0351	0.0268	
103 1,2,4-Trichlorobenzene	180	26.359	26.365	-0.006	90	5413	0.0351	0.0573	
104 Hexachlorobutadiene	225	26.552	26.547	0.005	92	5166	0.0351	0.0462	
105 Naphthalene	128	26.873	26.868	0.005	97	16596	0.0351	0.0731	
106 1,2,3-Trichlorobenzene	180	27.360	27.354	0.006	91	7462	0.0351	0.0759	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL1w_00196	Amount Added: 35.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

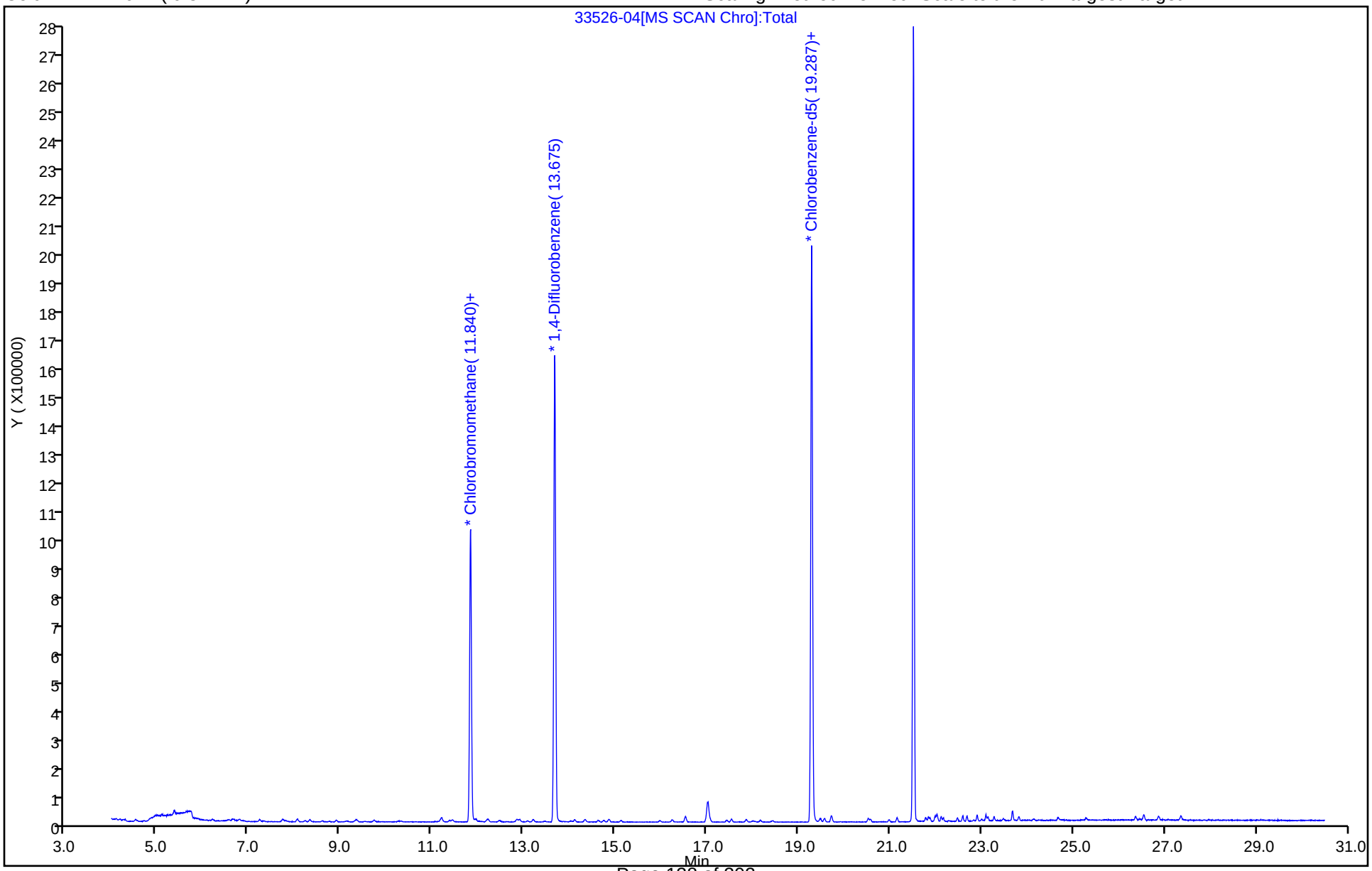
Report Date: 10-Dec-2018 11:54:23 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D

Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

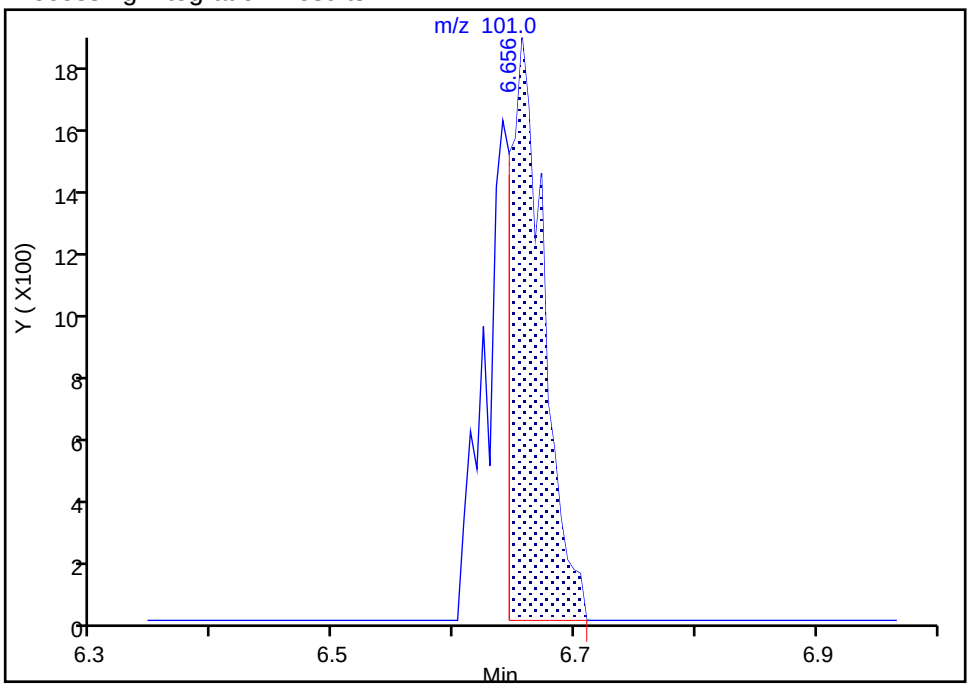
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

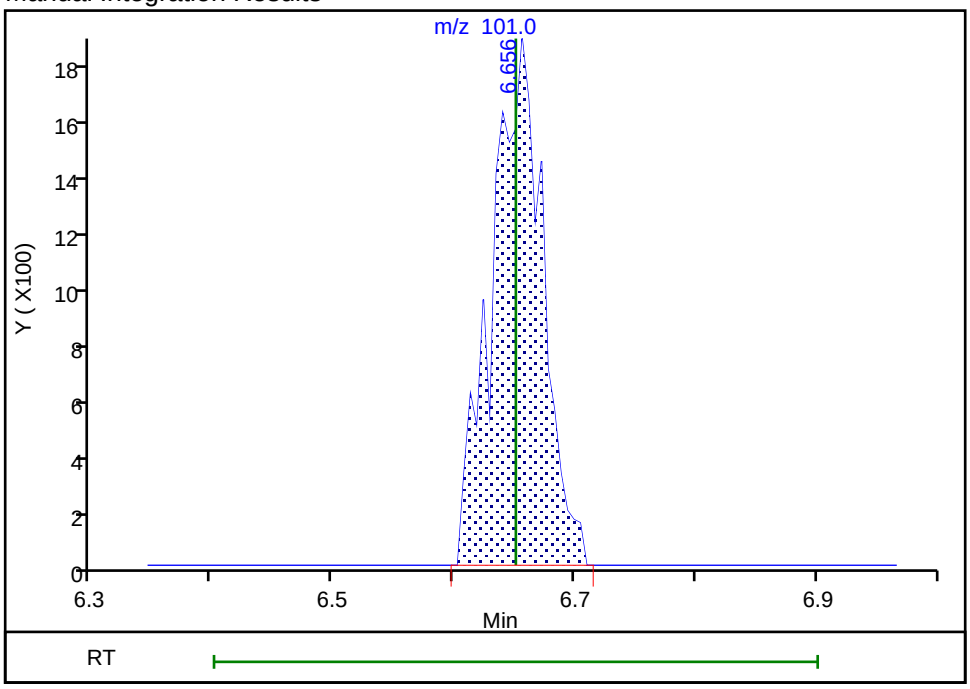
Processing Integration Results

RT: 6.66
Area: 3680
Amount: 0.030231
Amount Units: ppb v/v



Manual Integration Results

RT: 6.66
Area: 5588
Amount: 0.045906
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:36:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

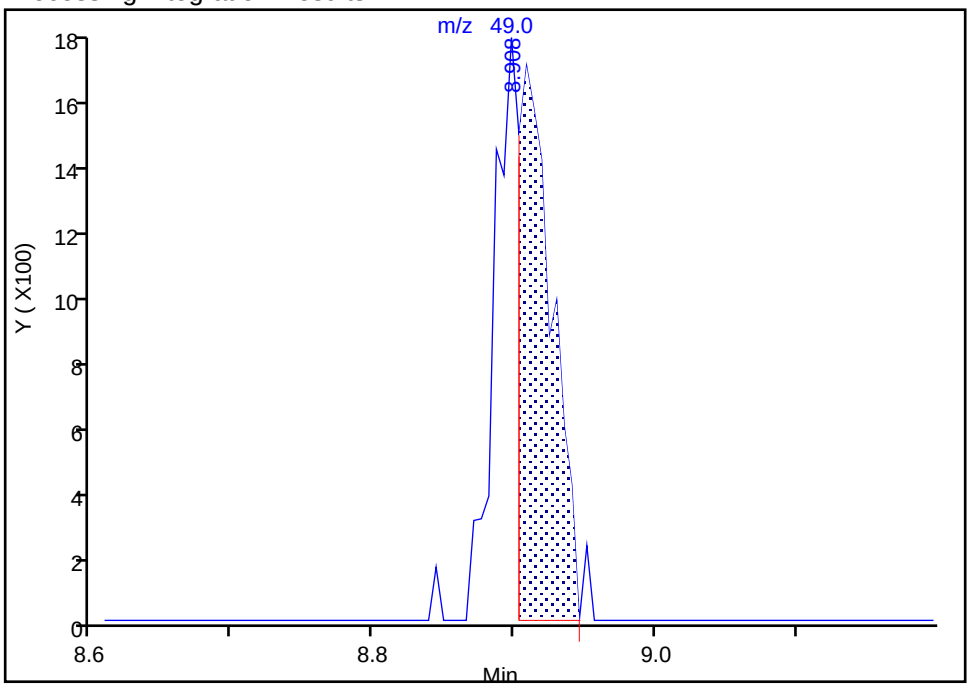
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D
Injection Date: 07-Dec-2018 22:39:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

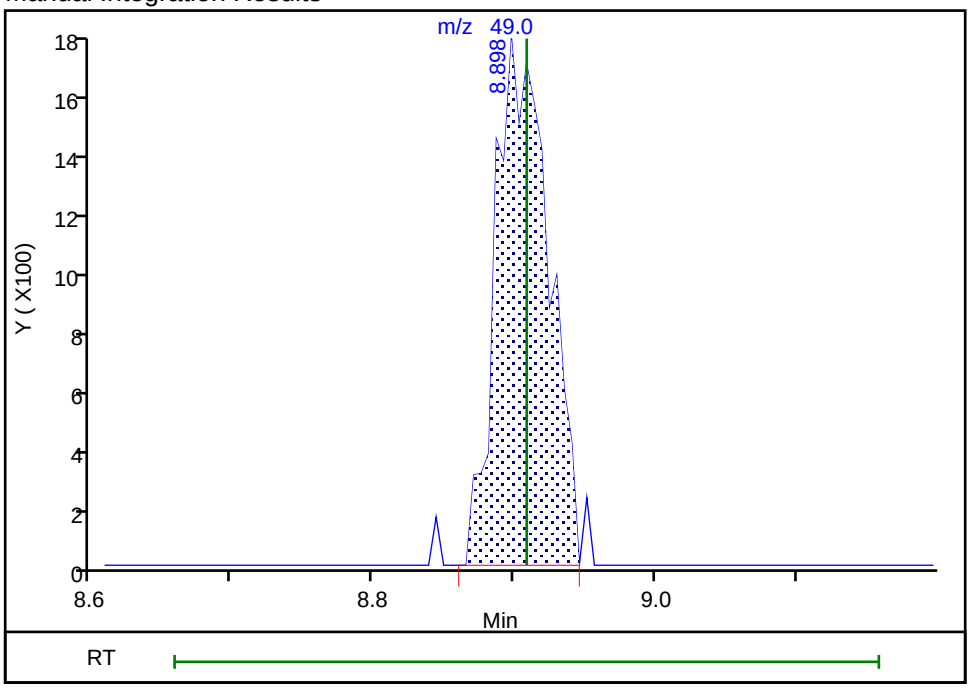
Processing Integration Results

RT: 8.91
Area: 2817
Amount: 0.040948
Amount Units: ppb v/v



Manual Integration Results

RT: 8.90
Area: 4565
Amount: 0.066356
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:36:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

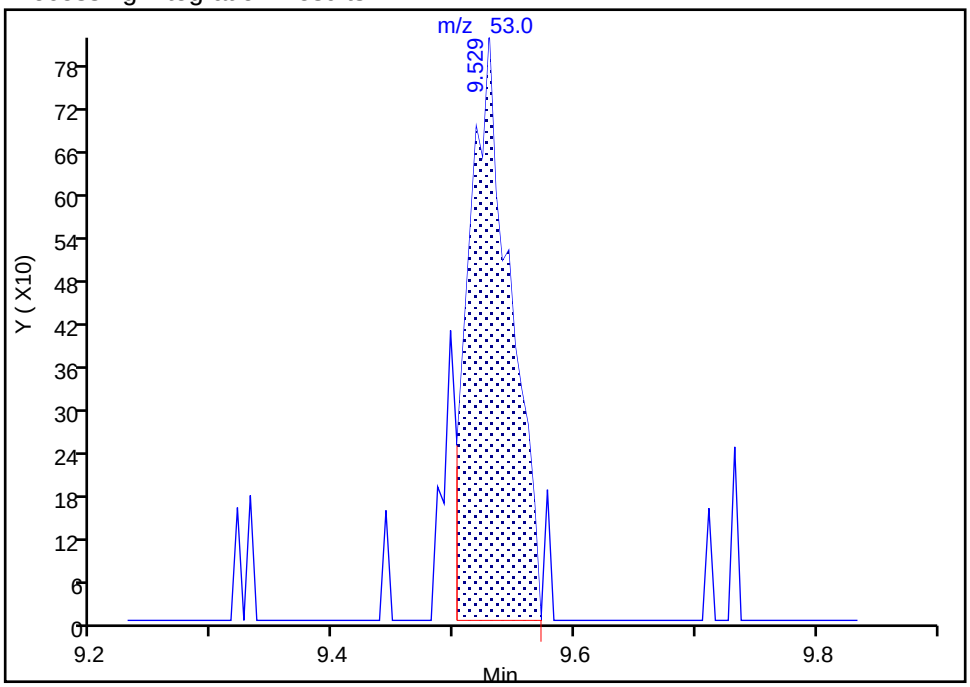
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D
Injection Date: 07-Dec-2018 22:39:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

32 Acrylonitrile, CAS: 107-13-1

Signal: 1

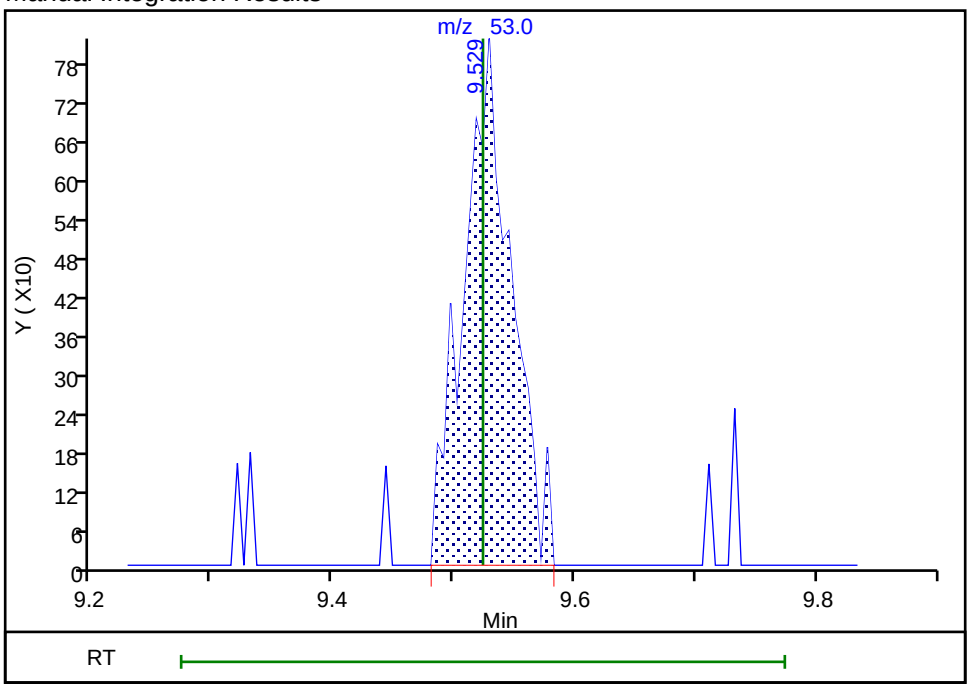
Processing Integration Results

RT: 9.53
Area: 1957
Amount: 0.043538
Amount Units: ppb v/v



Manual Integration Results

RT: 9.53
Area: 2259
Amount: 0.050256
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:36:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

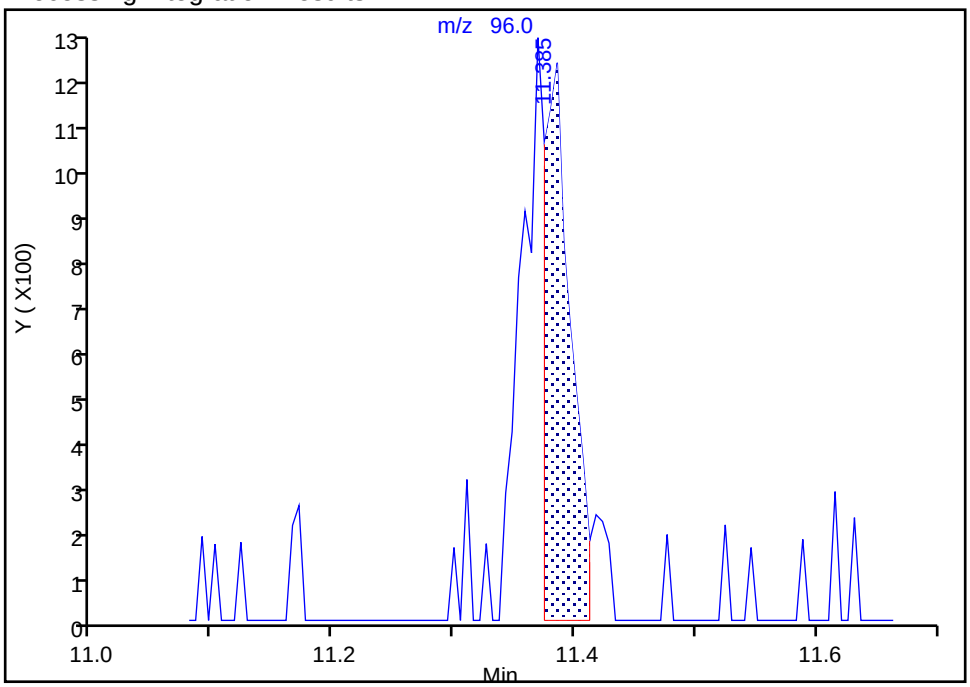
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

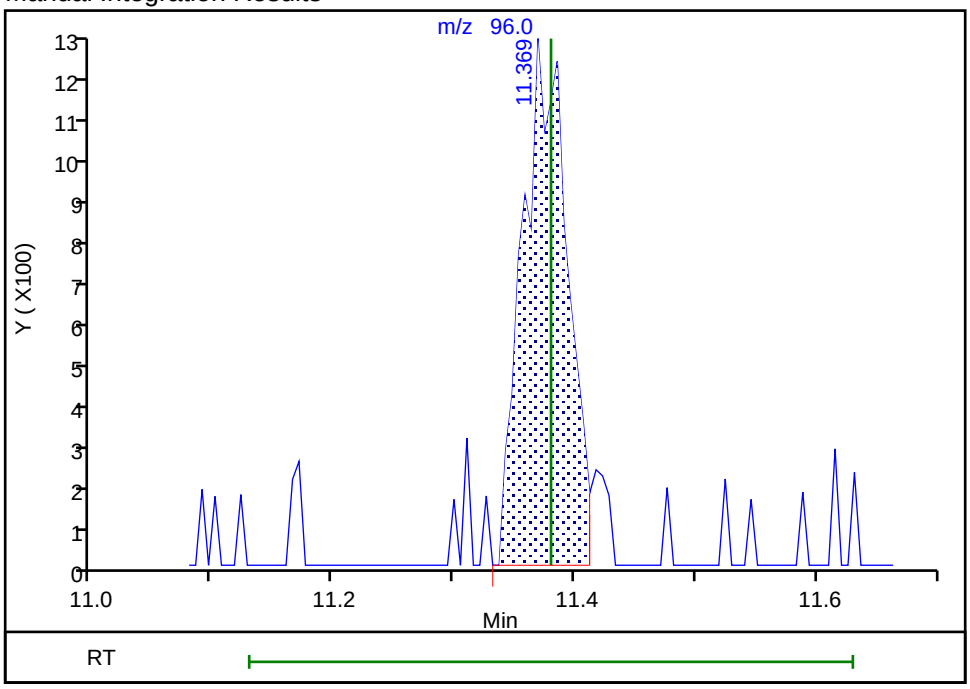
Processing Integration Results

RT: 11.39
Area: 1786
Amount: 0.030481
Amount Units: ppb v/v



Manual Integration Results

RT: 11.37
Area: 3129
Amount: 0.049369
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:36:58

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

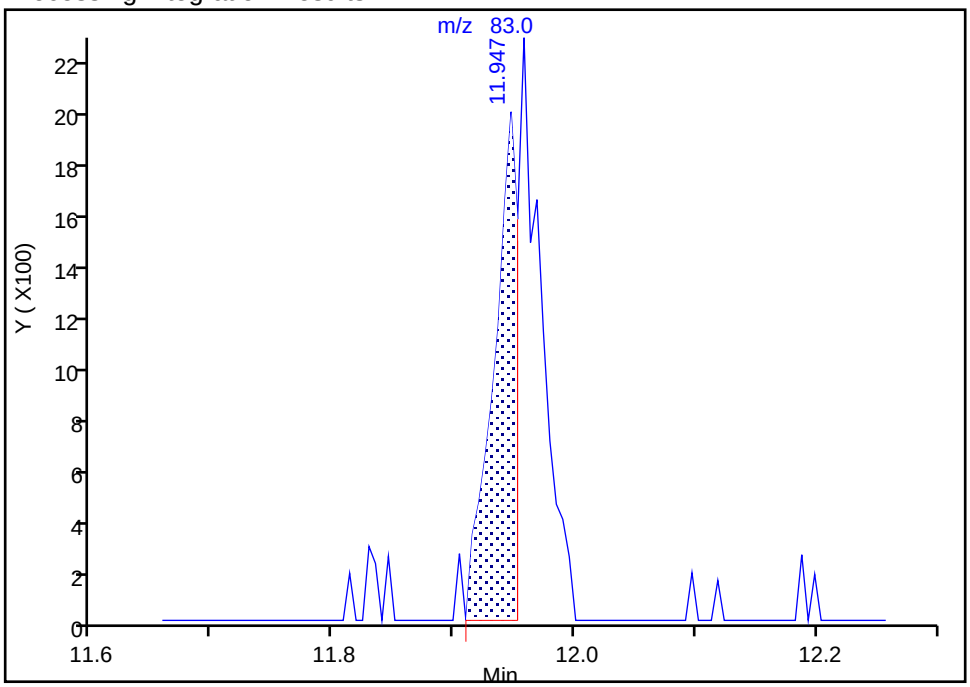
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

42 Chloroform, CAS: 67-66-3

Signal: 1

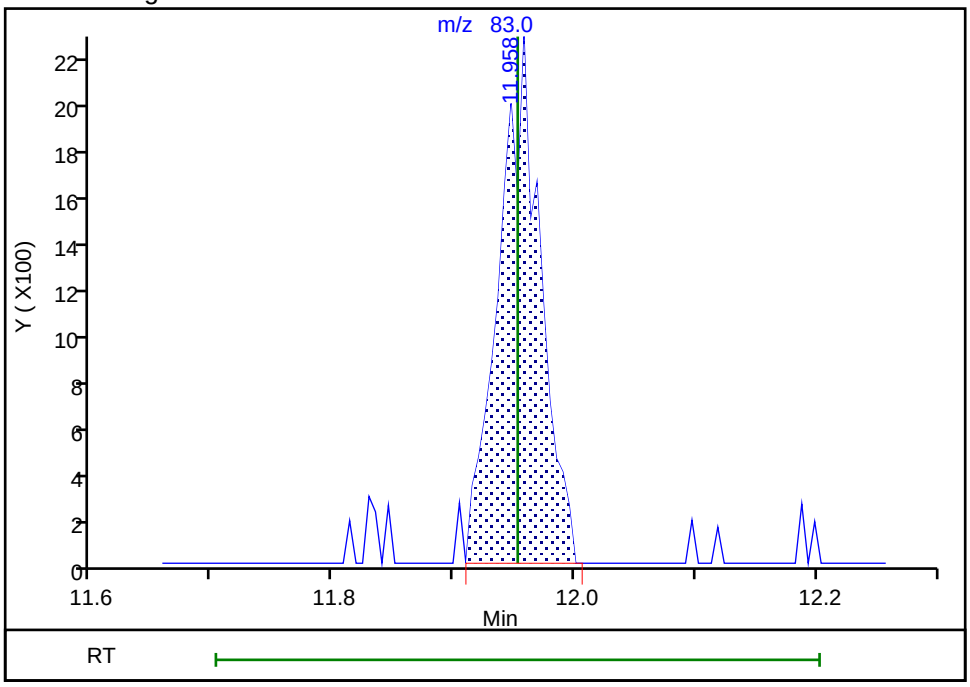
Processing Integration Results

RT: 11.95
Area: 2681
Amount: 0.022825
Amount Units: ppb v/v



Manual Integration Results

RT: 11.96
Area: 5266
Amount: 0.044833
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:37:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

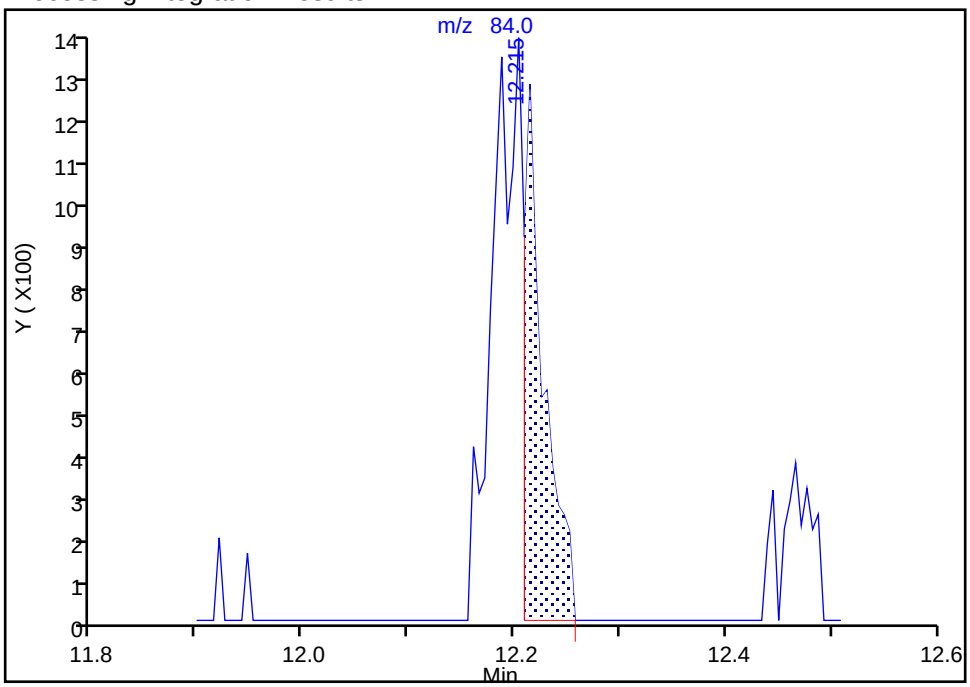
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D
Injection Date: 07-Dec-2018 22:39:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

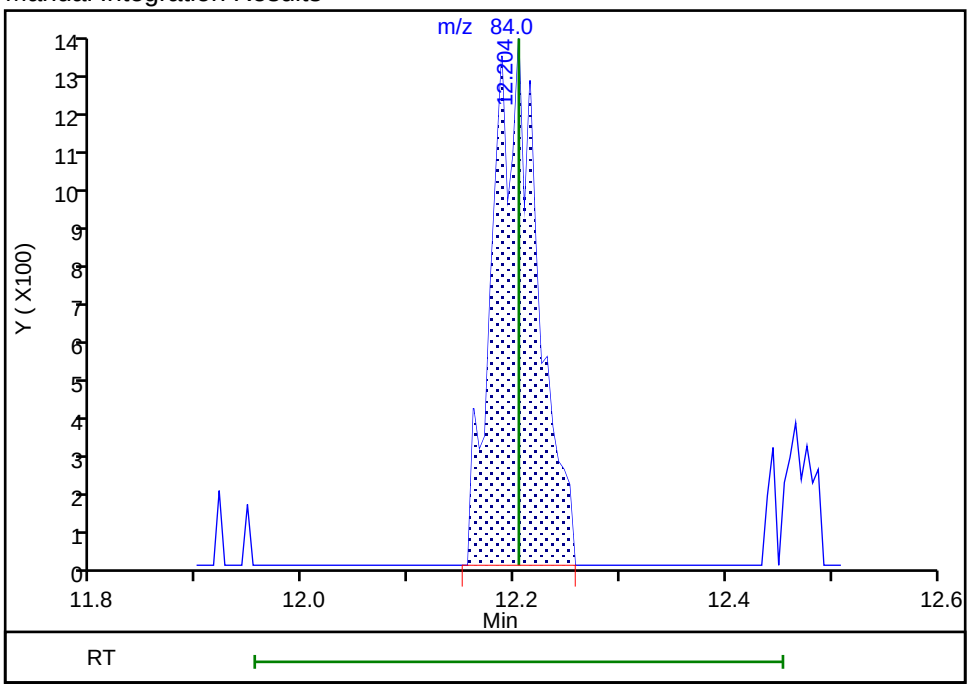
Processing Integration Results

RT: 12.21
Area: 1654
Amount: 0.021468
Amount Units: ppb v/v



Manual Integration Results

RT: 12.20
Area: 4059
Amount: 0.049541
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:37:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

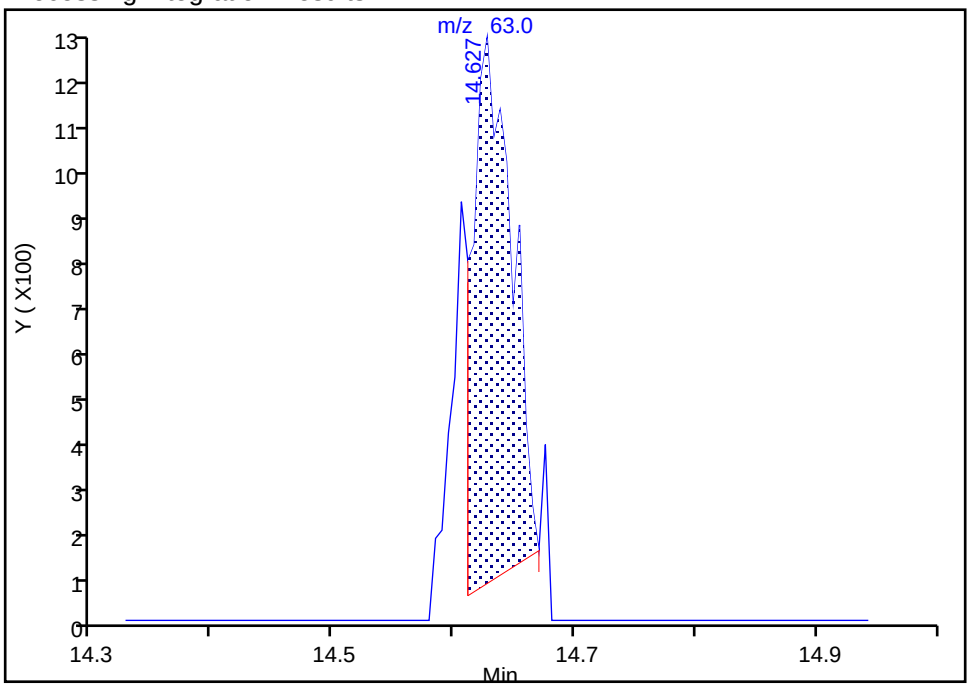
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

54 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

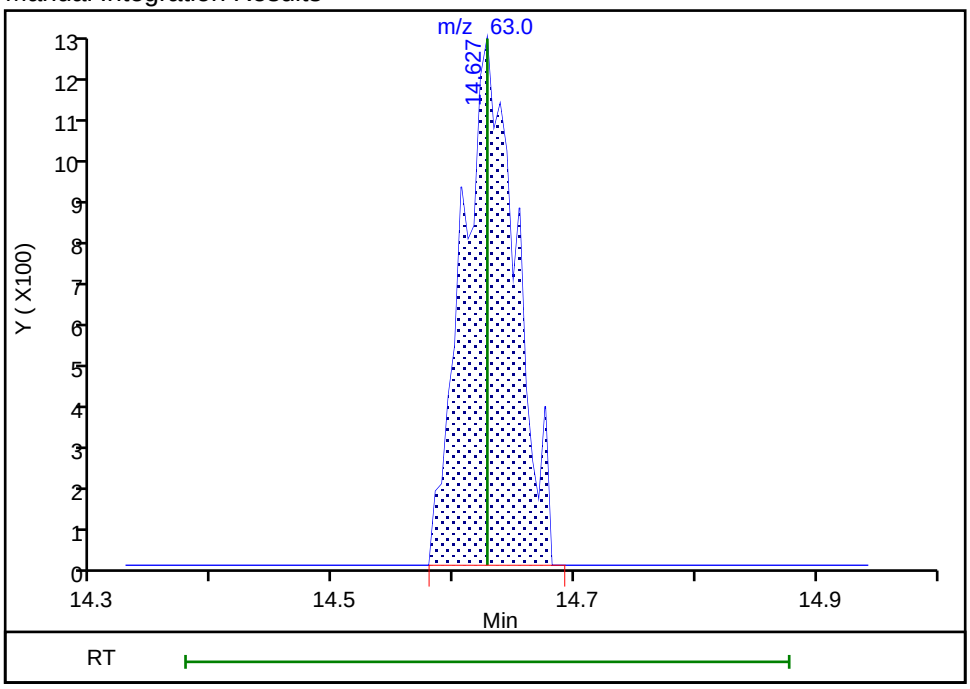
Processing Integration Results

RT: 14.63
Area: 2699
Amount: 0.036780
Amount Units: ppb v/v



Manual Integration Results

RT: 14.63
Area: 3942
Amount: 0.053719
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:37:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

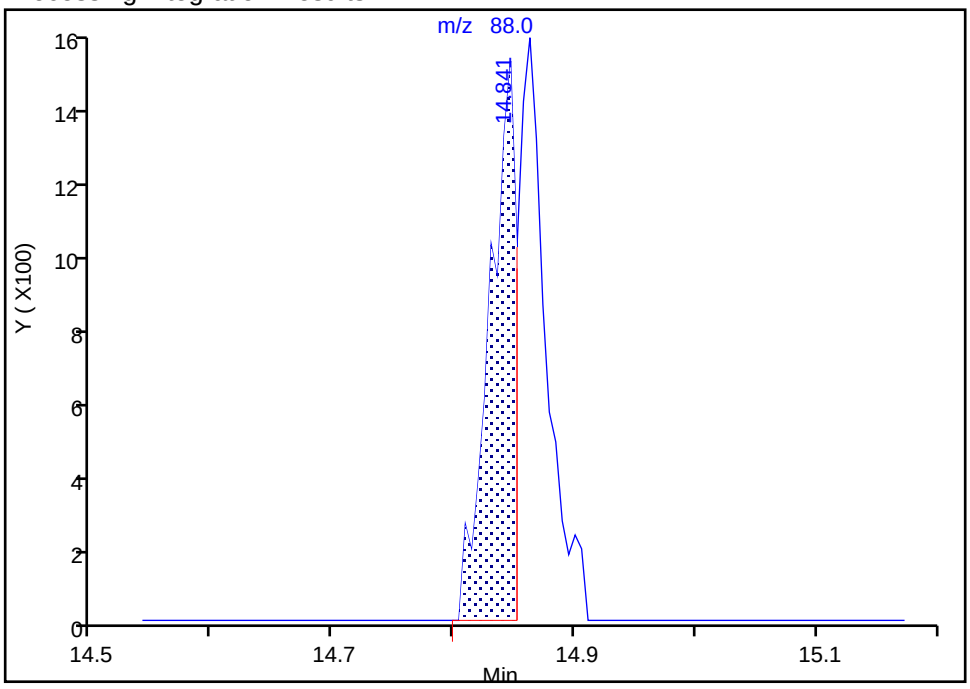
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D
Injection Date: 07-Dec-2018 22:39:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

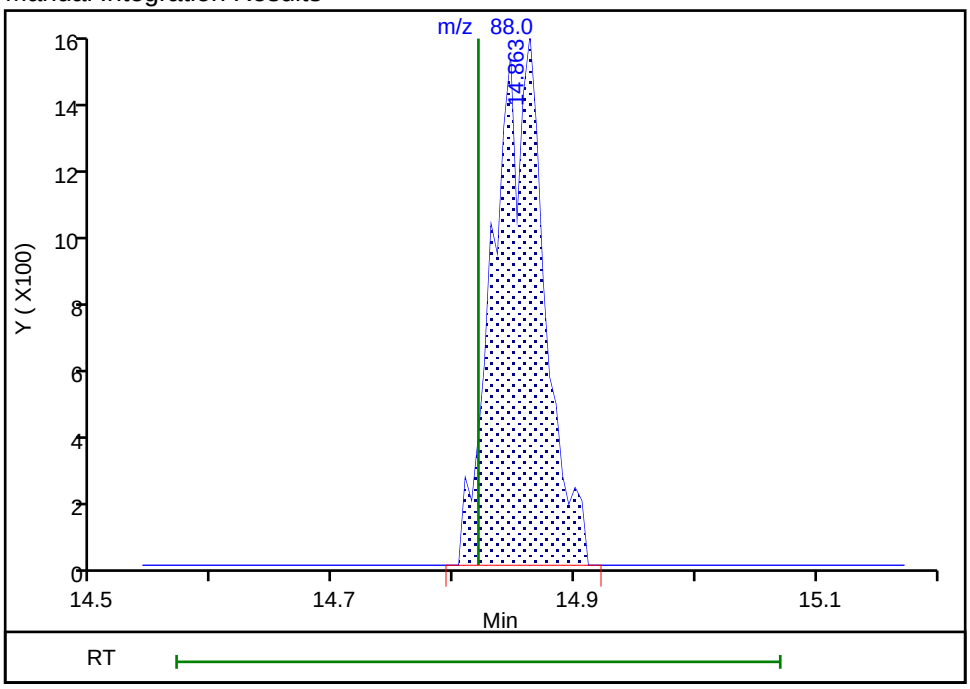
Processing Integration Results

RT: 14.84
Area: 2231
Amount: 0.060985
Amount Units: ppb v/v



Manual Integration Results

RT: 14.86
Area: 4419
Amount: 0.120794
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:37:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

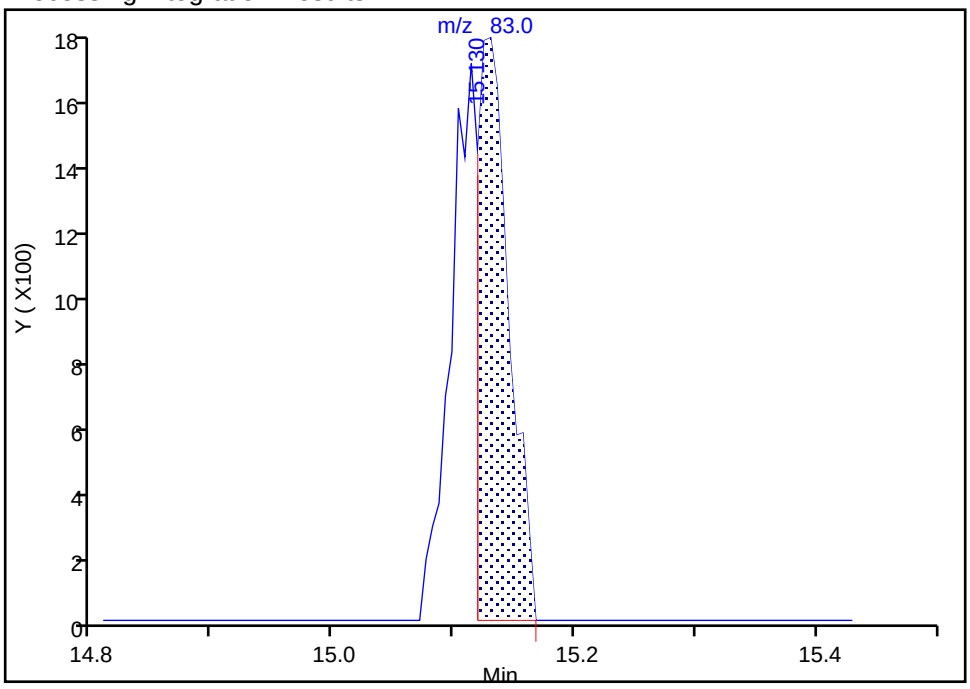
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

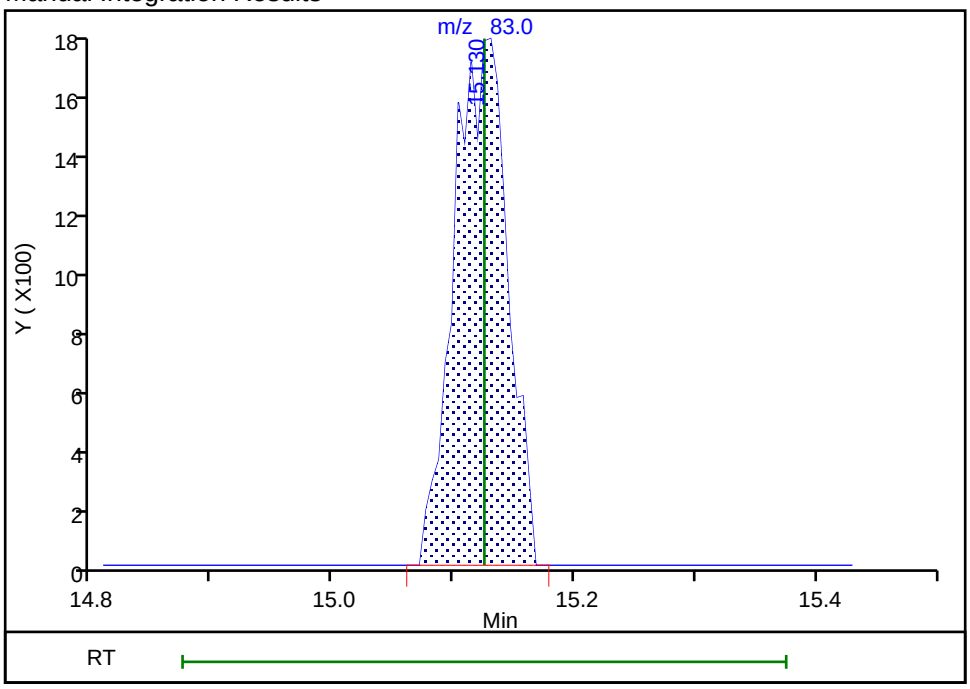
Processing Integration Results

RT: 15.13
Area: 3209
Amount: 0.025901
Amount Units: ppb v/v



Manual Integration Results

RT: 15.13
Area: 5445
Amount: 0.043948
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:37:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

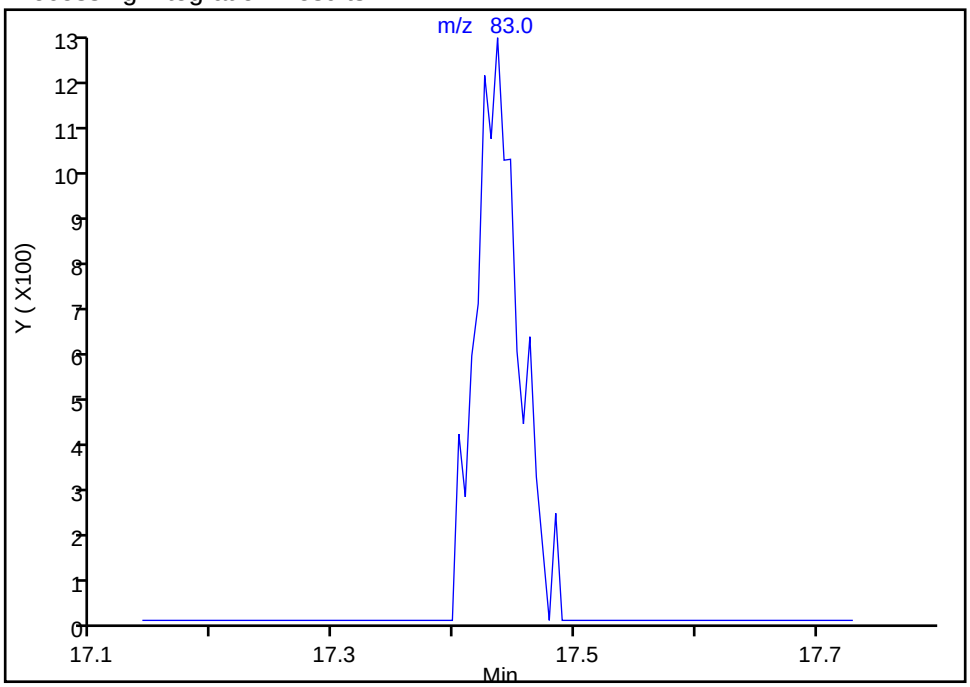
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

67 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

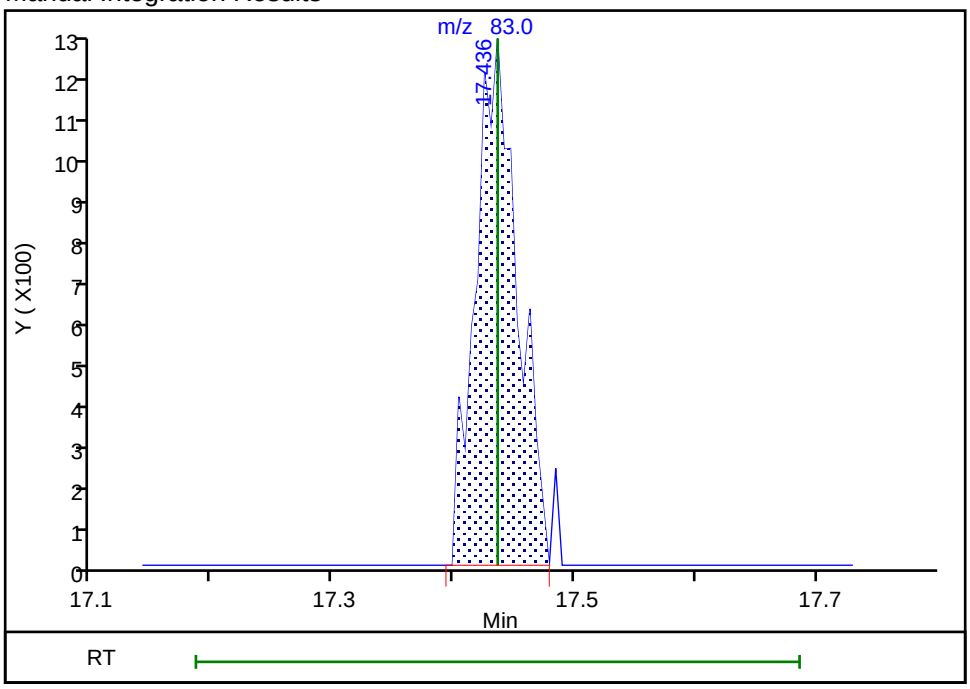
Not Detected
Expected RT: 17.44

Processing Integration Results



Manual Integration Results

RT: 17.44
Area: 3023
Amount: 0.043704
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:37:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

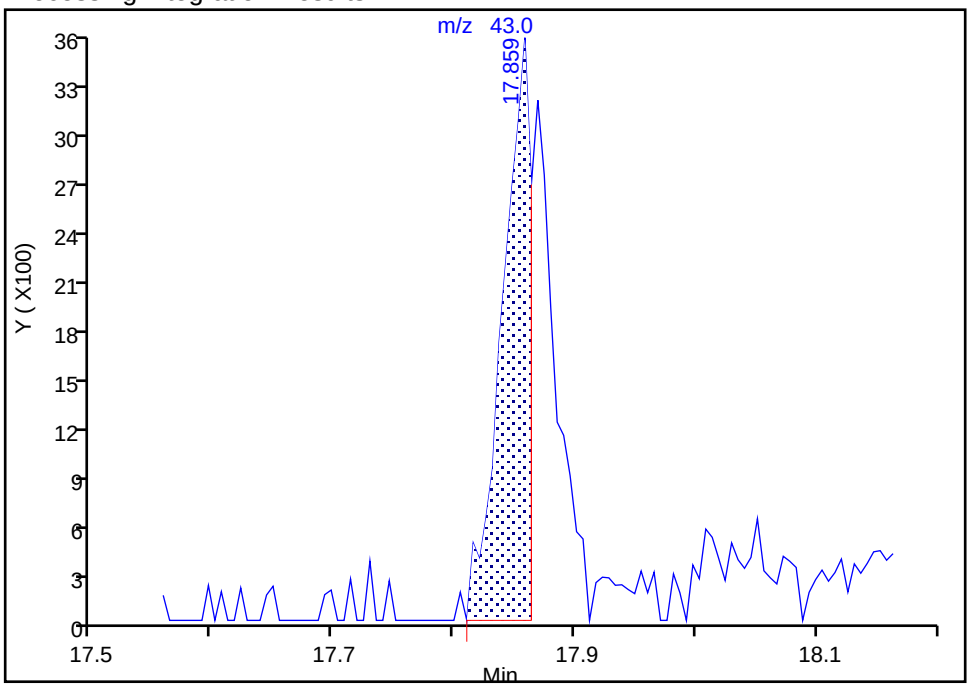
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D
Injection Date: 07-Dec-2018 22:39:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

69 2-Hexanone, CAS: 591-78-6

Signal: 1

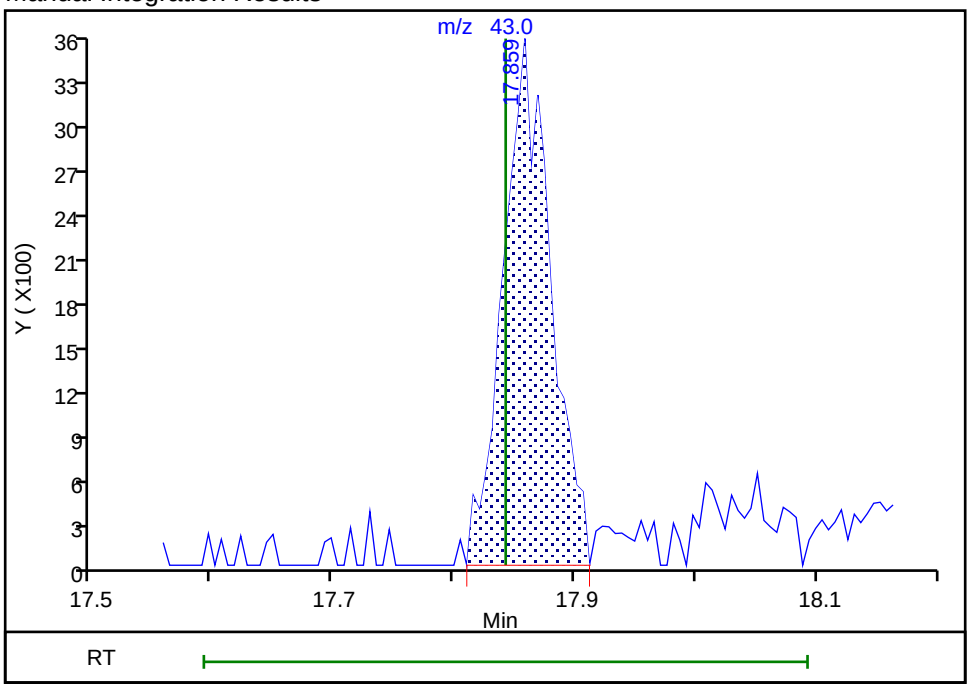
Processing Integration Results

RT: 17.86
Area: 5803
Amount: 0.042395
Amount Units: ppb v/v



Manual Integration Results

RT: 17.86
Area: 9652
Amount: 0.070514
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:37:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

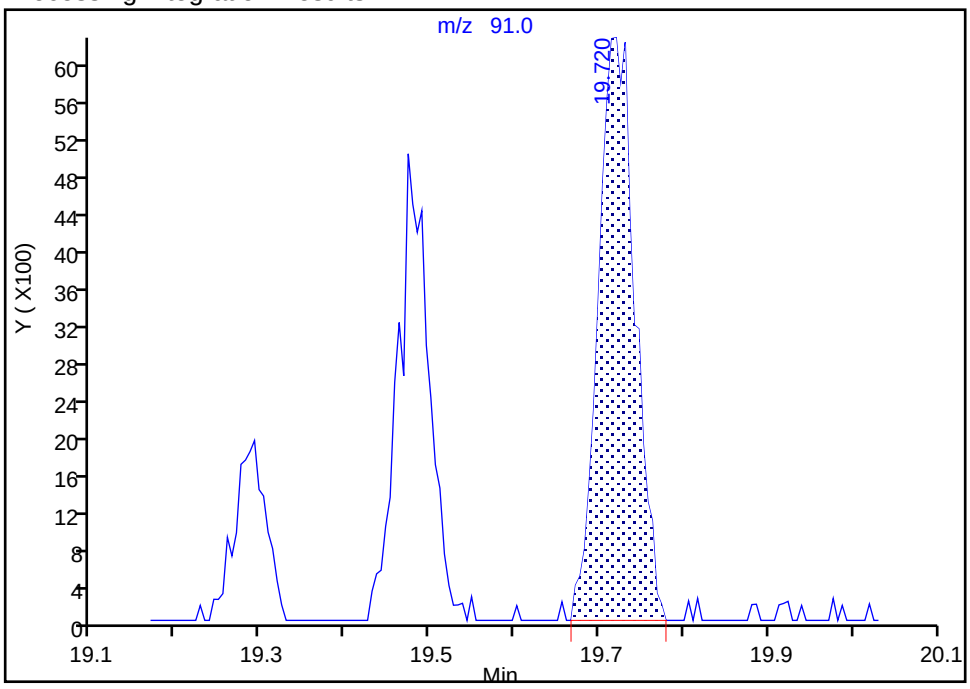
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4

Signal: 1

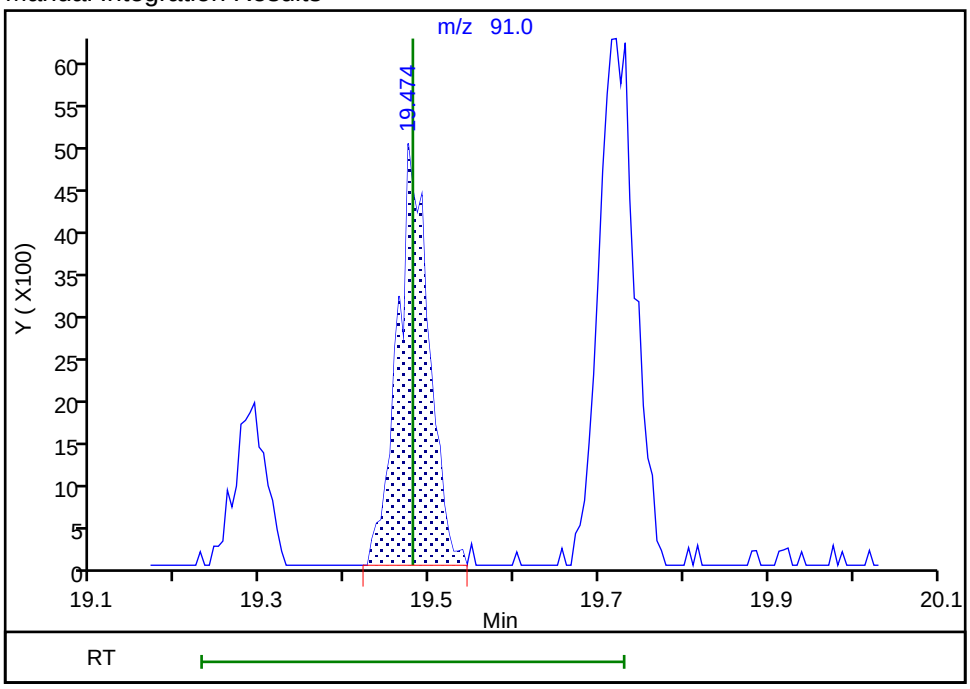
Processing Integration Results

RT: 19.72
Area: 18926
Amount: 0.065362
Amount Units: ppb v/v



Manual Integration Results

RT: 19.47
Area: 12921
Amount: 0.048486
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:38:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

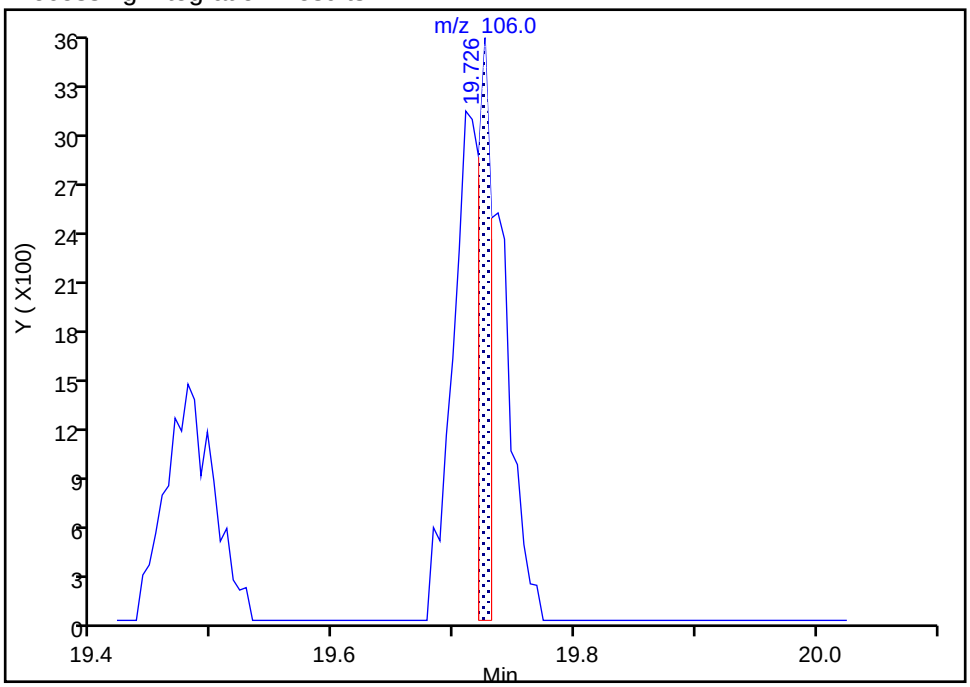
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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

Signal: 1

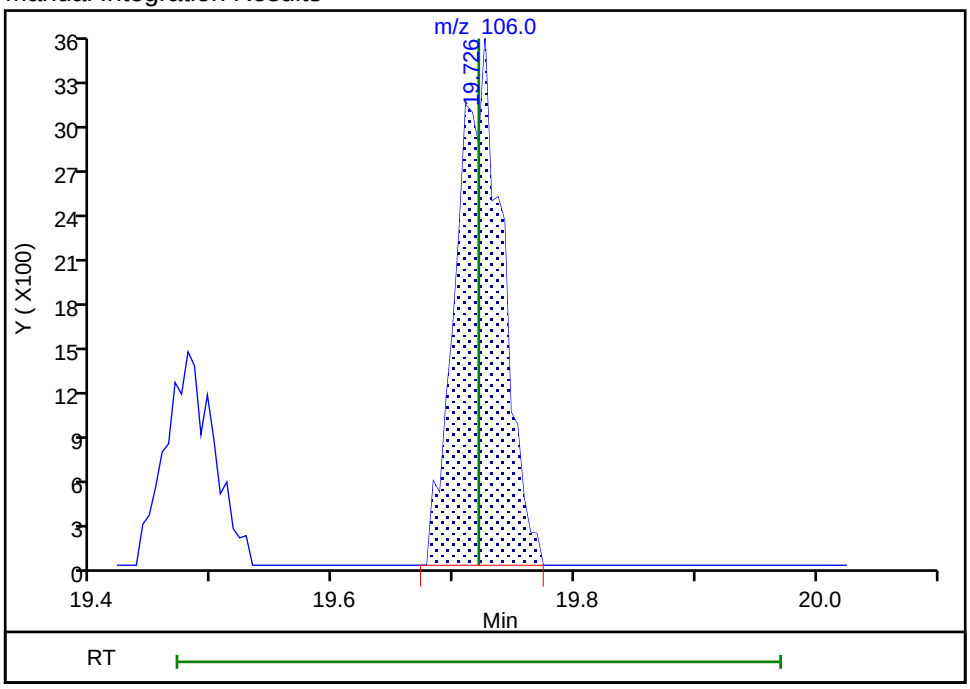
Processing Integration Results

RT: 19.73
Area: 2839
Amount: 0.030743
Amount Units: ppb v/v



Manual Integration Results

RT: 19.73
Area: 9234
Amount: 0.091311
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:38:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

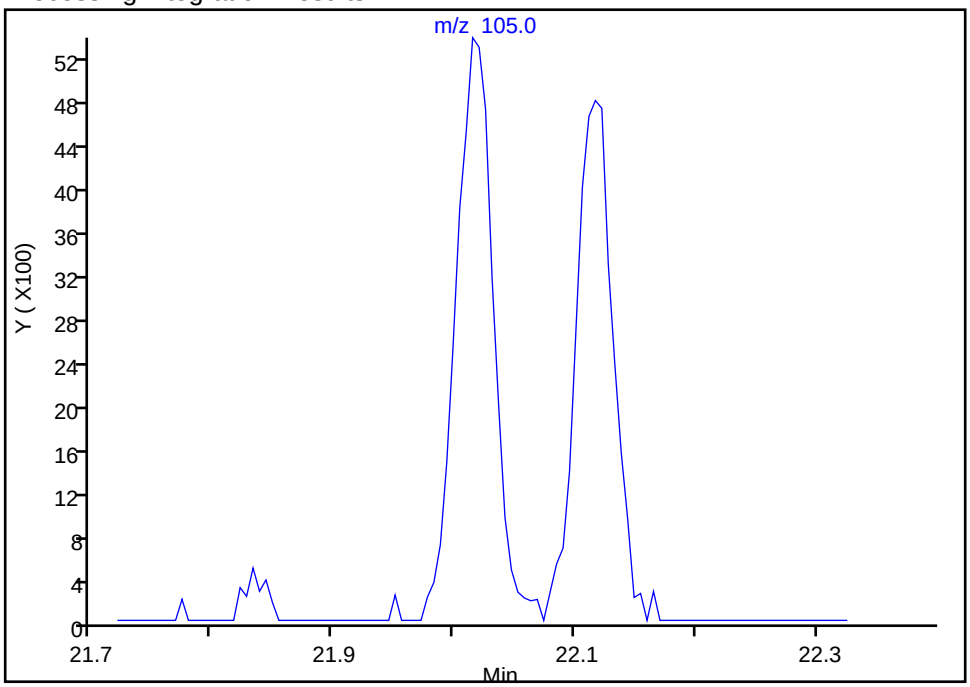
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

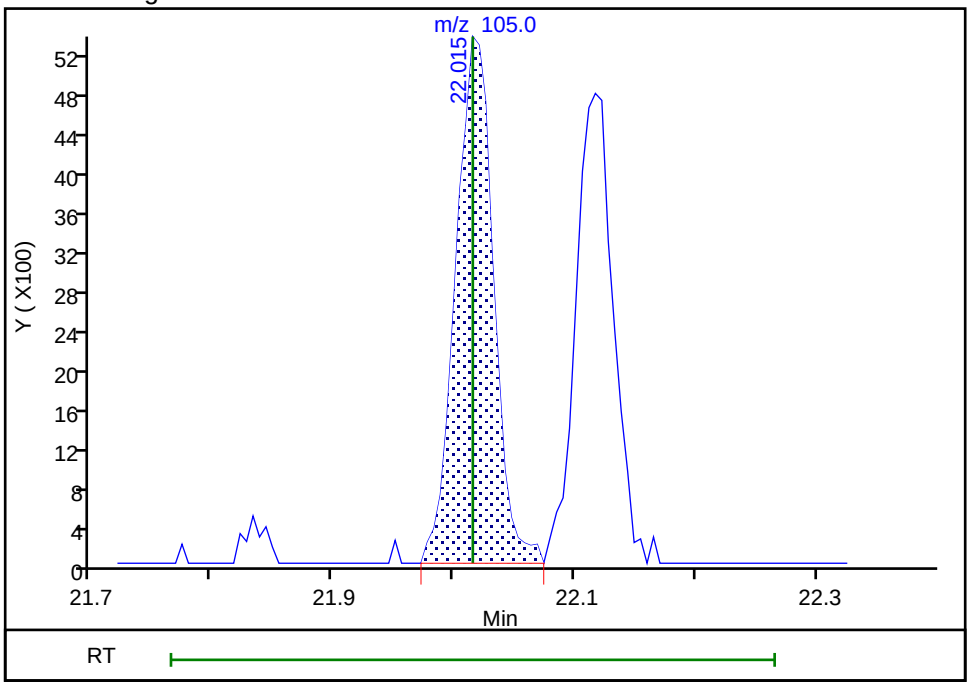
Not Detected
Expected RT: 22.02

Processing Integration Results



Manual Integration Results

RT: 22.02
Area: 11574
Amount: 0.040427
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:38:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

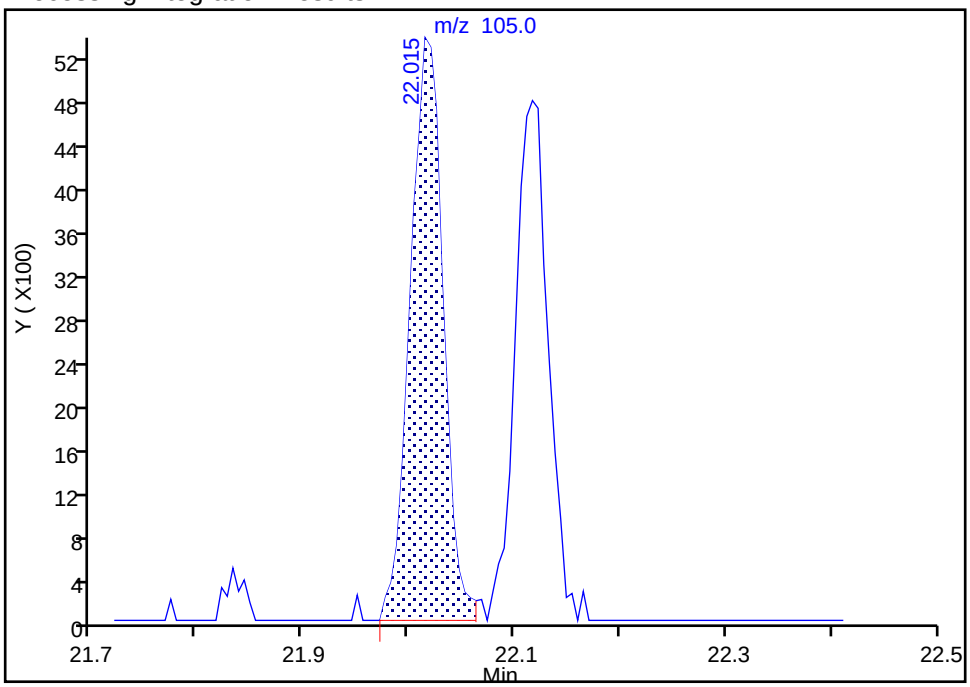
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-04.D				
Injection Date:	07-Dec-2018 22:39:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

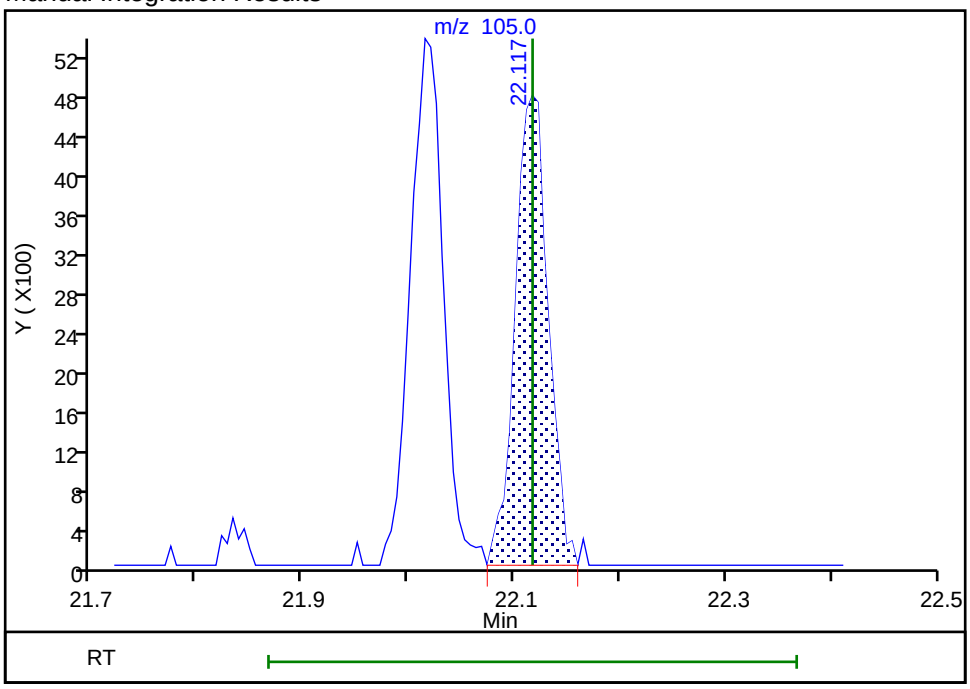
Processing Integration Results

RT: 22.02
Area: 11512
Amount: 0.044190
Amount Units: ppb v/v



Manual Integration Results

RT: 22.12
Area: 10261
Amount: 0.043183
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:38:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-05.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Dec-2018 23:32:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-005
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:25 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 10:39:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.094	4.094	0.000	96	9884	0.2004	0.3121	
2 Dichlorodifluoromethane	85	4.185	4.185	0.000	99	28083	0.2004	0.2640	
3 Chlorodifluoromethane	51	4.249	4.249	0.000	97	17011	0.2004	0.2527	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.522	4.516	0.006	92	28542	0.2004	0.2371	
5 Chloromethane	50	4.698	4.704	-0.006	98	11601	0.2004	0.2879	
6 Butane	43	4.944	4.939	0.005	99	24014	0.2004	0.2770	
7 Vinyl chloride	62	4.998	4.998	0.000	79	14355	0.2004	0.2178	
8 Butadiene	54	5.094	5.084	0.010	97	11912	0.2004	0.2208	
10 Bromomethane	94	5.880	5.875	0.005	97	11227	0.2004	0.2401	
11 Chloroethane	64	6.137	6.132	0.005	92	7235	0.2004	0.2534	
12 2-Methylbutane	43	6.201	6.196	0.005	88	15378	0.2004	0.2415	
13 Vinyl bromide	106	6.549	6.555	-0.006	98	11319	0.2004	0.2484	
14 Trichlorofluoromethane	101	6.656	6.651	0.005	99	26909	0.2004	0.2306	
16 Pentane	43	6.785	6.785	0.000	97	25092	0.2004	0.2619	
17 Ethanol	45	7.234	7.223	0.011	98	16422	0.4009	0.7493	M
18 Ethyl ether	59	7.320	7.320	0.000	91	9365	0.2004	0.2331	
19 Acrolein	56	7.726	7.726	0.000	57	8135	0.2004	0.3999	
20 1,1,2-Trichloro-1,2,2-trif	101	7.742	7.737	0.005	92	25019	0.2004	0.2333	
21 1,1-Dichloroethene	96	7.806	7.801	0.005	96	12458	0.2004	0.2200	
22 Acetone	43	8.052	8.042	0.010	98	59882	0.2004	0.7452	
23 Carbon disulfide	76	8.218	8.224	-0.006	100	35013	0.2004	0.2427	
24 Isopropyl alcohol	45	8.320	8.309	0.011	99	29559	0.2004	0.3601	
25 3-Chloro-1-propene	41	8.603	8.604	-0.001	98	17958	0.2004	0.2798	
26 Acetonitrile	41	8.759	8.748	0.011	95	13118	0.2004	0.3243	
27 Methylene Chloride	49	8.908	8.909	-0.001	94	17921	0.2004	0.2718	
28 2-Methyl-2-propanol	59	9.117	9.101	0.016	93	23839	0.2004	0.2281	
29 Methyl tert-butyl ether	73	9.310	9.304	0.006	97	36167	0.2004	0.2336	
31 trans-1,2-Dichloroethene	61	9.352	9.353	-0.001	97	19831	0.2004	0.2364	
32 Acrylonitrile	53	9.524	9.524	0.000	92	9600	0.2004	0.2228	
S 30 1,2-Dichloroethene, Total	61				0		0.4009	0.4523	
33 Hexane	57	9.727	9.732	-0.005	93	21350	0.2004	0.2331	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63	10.251	10.257	-0.006	98	24023	0.2004	0.2255	
35 Vinyl acetate	43	10.315	10.316	-0.001	99	32817	0.2004	0.2442	
37 cis-1,2-Dichloroethene	96	11.380	11.380	0.000	96	13117	0.2004	0.2159	
38 2-Butanone (MEK)	72	11.423	11.418	0.005	97	8647	0.2004	0.2652	
39 Ethyl acetate	88	11.433	11.439	-0.006	94	1000	0.2004	0.1758	
* 40 Chlorobromomethane	128	11.835	11.840	-0.005	96	342354	10.0	10.0	
41 Tetrahydrofuran	42	11.867	11.846	0.021	91	15684	0.2004	0.2495	
42 Chloroform	83	11.958	11.953	0.005	97	25975	0.2004	0.2307	
43 Cyclohexane	84	12.198	12.204	-0.006	95	18018	0.2004	0.2285	
44 1,1,1-Trichloroethane	97	12.225	12.225	0.000	96	25572	0.2004	0.2255	
45 Carbon tetrachloride	117	12.466	12.471	-0.005	92	23201	0.2004	0.2094	
46 Isooctane	57	12.851	12.857	-0.006	98	65504	0.2004	0.2325	
47 Benzene	78	12.910	12.916	-0.006	99	40771	0.2004	0.2341	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	94	18528	0.2004	0.2314	
49 n-Heptane	43	13.204	13.204	0.000	89	26903	0.2004	0.2424	
* 50 1,4-Difluorobenzene	114	13.675	13.675	0.000	97	1559529	10.0	10.0	
52 n-Butanol	56	14.017	14.002	0.015	91	11428	0.2004	0.3128	
A 51 GRO	1	14.092	(6.186-21.993)		0	12032602	0.2004	0	
53 Trichloroethene	95	14.119	14.114	0.005	93	17194	0.2004	0.2153	
54 1,2-Dichloropropane	63	14.622	14.627	-0.005	87	16230	0.2004	0.2298	
55 Methyl methacrylate	69	14.750	14.745	0.005	92	14693	0.2004	0.2233	
56 1,4-Dioxane	88	14.836	14.820	0.016	98	10503	0.2004	0.2983	
57 Dibromomethane	174	14.868	14.868	0.000	94	13762	0.2004	0.2268	
58 Dichlorobromomethane	83	15.119	15.125	-0.006	98	26128	0.2004	0.2191	
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	15776566	0.2004	0	
60 cis-1,3-Dichloropropene	75	15.975	15.976	-0.001	95	22390	0.2004	0.2218	
61 4-Methyl-2-pentanone (MIBK	43	16.238	16.227	0.011	97	33477	0.2004	0.2390	
65 Toluene	92	16.521	16.521	0.000	92	26810	0.2004	0.2240	
64 n-Octane	43	16.537	16.537	0.000	89	33485	0.2004	0.2219	
66 trans-1,3-Dichloropropene	75	17.077	17.078	-0.001	95	21252	0.2004	0.2268	
67 1,1,2-Trichloroethane	83	17.441	17.436	0.005	98	14439	0.2004	0.2193	
68 Tetrachloroethene	166	17.548	17.538	0.010	91	18828	0.2004	0.2078	
69 2-Hexanone	43	17.858	17.843	0.015	92	30884	0.2004	0.2370	
71 Chlorodibromomethane	129	18.169	18.169	0.000	95	21171	0.2004	0.2091	
72 Ethylene Dibromide	107	18.436	18.436	0.000	97	22100	0.2004	0.2179	
* 74 Chlorobenzene-d5	117	19.287	19.287	0.000	92	1396887	10.0	10.0	
75 Chlorobenzene	112	19.346	19.346	0.000	91	33445	0.2004	0.2265	
76 Ethylbenzene	91	19.479	19.480	-0.001	99	55912	0.2004	0.2204	
77 n-Nonane	57	19.570	19.571	-0.001	89	30661	0.2004	0.2174	
S 73 Xylenes, Total	106				0		0.6013	0.6486	
78 m-Xylene & p-Xylene	106	19.726	19.720	0.006	0	41507	0.4009	0.4311	M
79 o-Xylene	106	20.517	20.523	-0.006	98	20625	0.2004	0.2174	
80 Styrene	104	20.571	20.571	0.000	97	29191	0.2004	0.1966	
81 Bromoform	173	20.983	20.978	0.005	92	16197	0.2004	0.1956	
82 Isopropylbenzene	105	21.154	21.154	0.000	99	57719	0.2004	0.2148	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.775	0.005	98	33282	0.2004	0.2157	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	71104	0.2004	0.2136	
86 1,2,3-Trichloropropane	75	21.876	21.876	0.000	96	27881	0.2004	0.2217	
87 n-Decane	57	21.983	21.983	0.000	92	37045	0.2004	0.2115	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	82	56185	0.2004	0.2061	M
89 2-Chlorotoluene	91	22.037	22.037	0.000	97	49333	0.2004	0.2027	
88 4-Ethyltoluene	105	22.117	22.117	0.000	92	46535	0.2004	0.2057	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 Alpha Methyl Styrene	118	22.475	22.470	0.005	84	20595	0.2004	0.1839	
92 tert-Butylbenzene	119	22.588	22.588	0.000	90	44673	0.2004	0.2121	
93 1,2,4-Trimethylbenzene	105	22.684	22.679	0.005	98	45663	0.2004	0.2011	
94 sec-Butylbenzene	105	22.909	22.903	0.006	96	69709	0.2004	0.2119	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	94	52579	0.2004	0.1965	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	95	28201	0.2004	0.1984	
97 1,4-Dichlorobenzene	146	23.272	23.273	-0.001	91	26769	0.2004	0.1955	
98 Benzyl chloride	91	23.476	23.470	0.006	98	26580	0.2004	0.1506	
100 n-Butylbenzene	91	23.674	23.674	0.000	98	52349	0.2004	0.1888	
99 Undecane	57	23.679	23.679	0.000	95	36143	0.2004	0.1864	
101 1,2-Dichlorobenzene	146	23.813	23.813	0.000	92	28246	0.2004	0.2034	
102 Dodecane	57	25.284	25.284	0.000	91	20800	0.2004	0.1208	
103 1,2,4-Trichlorobenzene	180	26.359	26.365	-0.006	92	13234	0.2004	0.1473	
104 Hexachlorobutadiene	225	26.552	26.547	0.005	93	22796	0.2004	0.2143	
105 Naphthalene	128	26.867	26.868	-0.001	96	40271	0.2004	0.1862	
106 1,2,3-Trichlorobenzene	180	27.360	27.354	0.006	92	17523	0.2004	0.1871	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL1w_00196	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

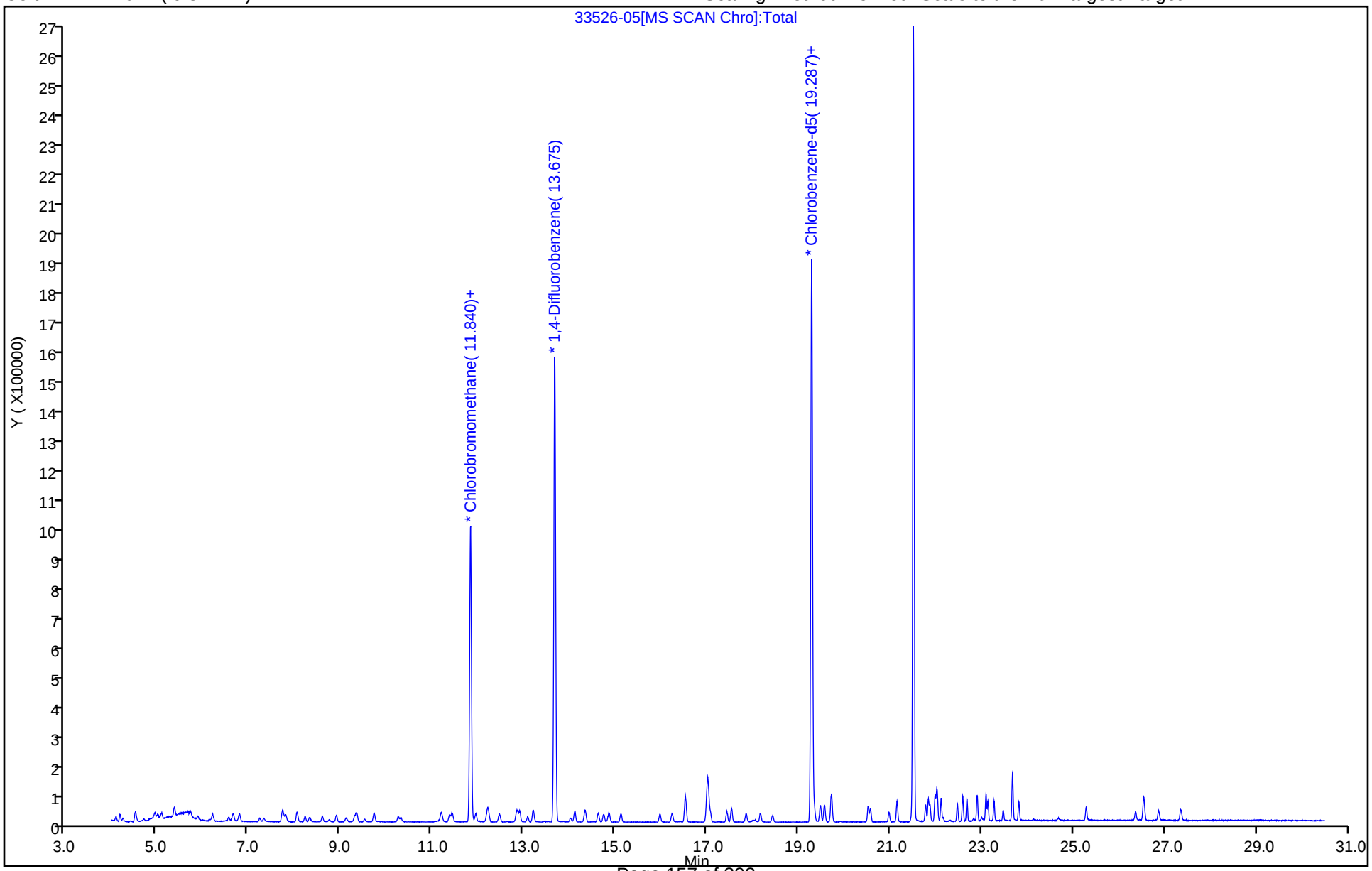
Report Date: 10-Dec-2018 11:54:26 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-05.D

Injection Date:	07-Dec-2018 23:32:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

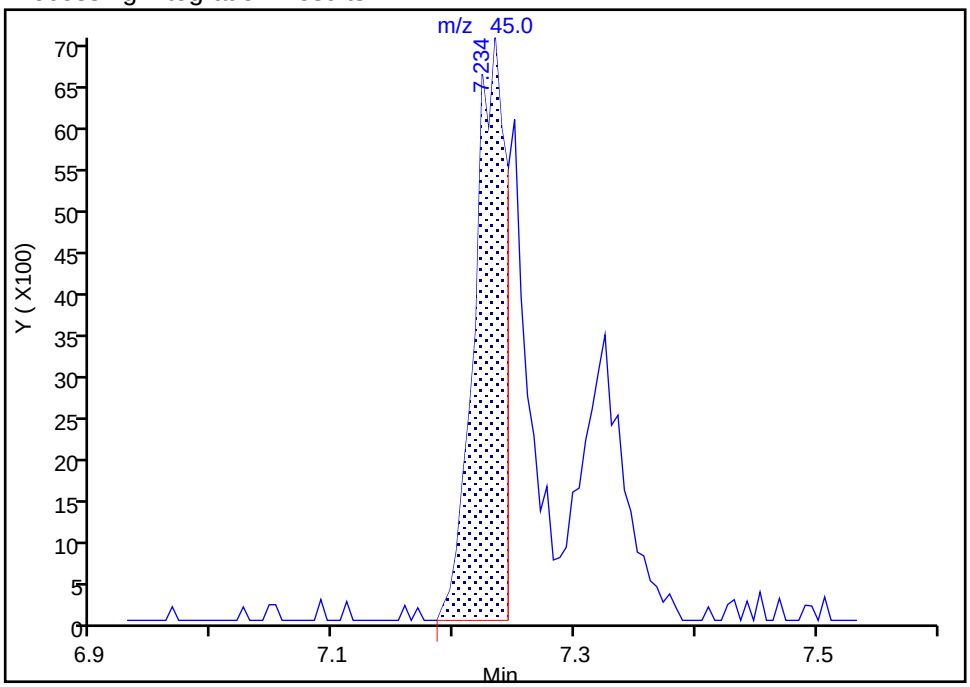
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-05.D				
Injection Date:	07-Dec-2018 23:32:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

17 Ethanol, CAS: 64-17-5

Signal: 1

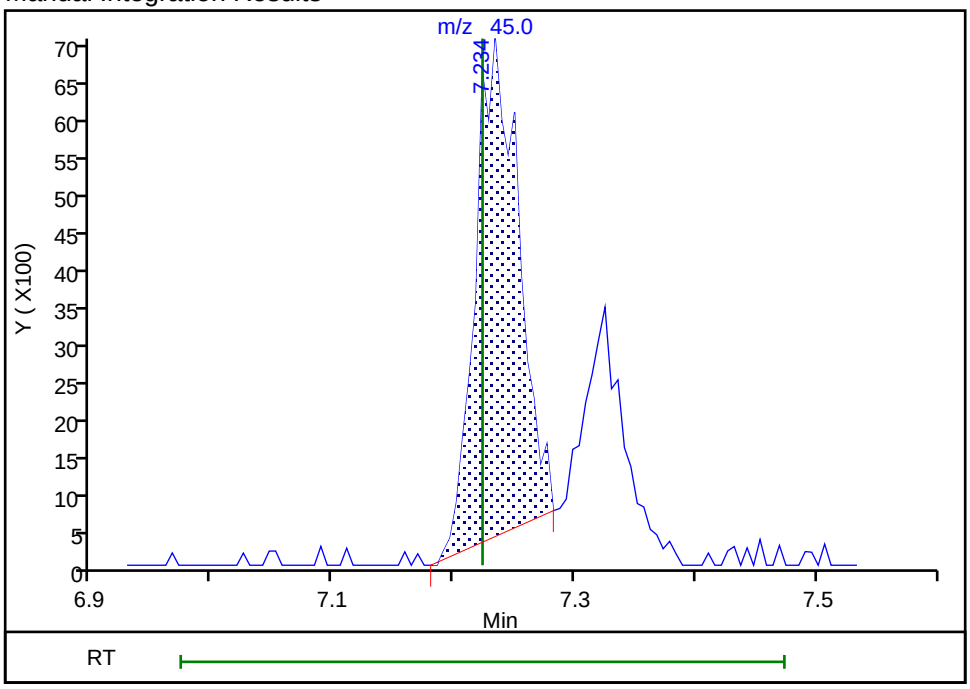
Processing Integration Results

RT: 7.23
Area: 12821
Amount: 0.584996
Amount Units: ppb v/v



Manual Integration Results

RT: 7.23
Area: 16422
Amount: 0.749303
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:38:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Burlington

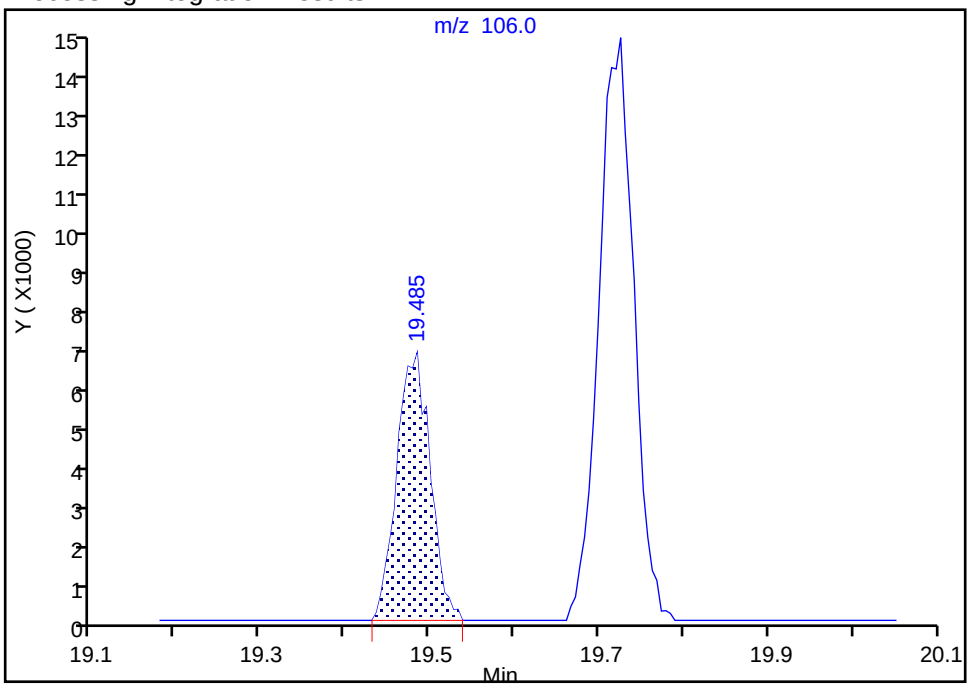
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-05.D				
Injection Date:	07-Dec-2018 23:32:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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

Signal: 1

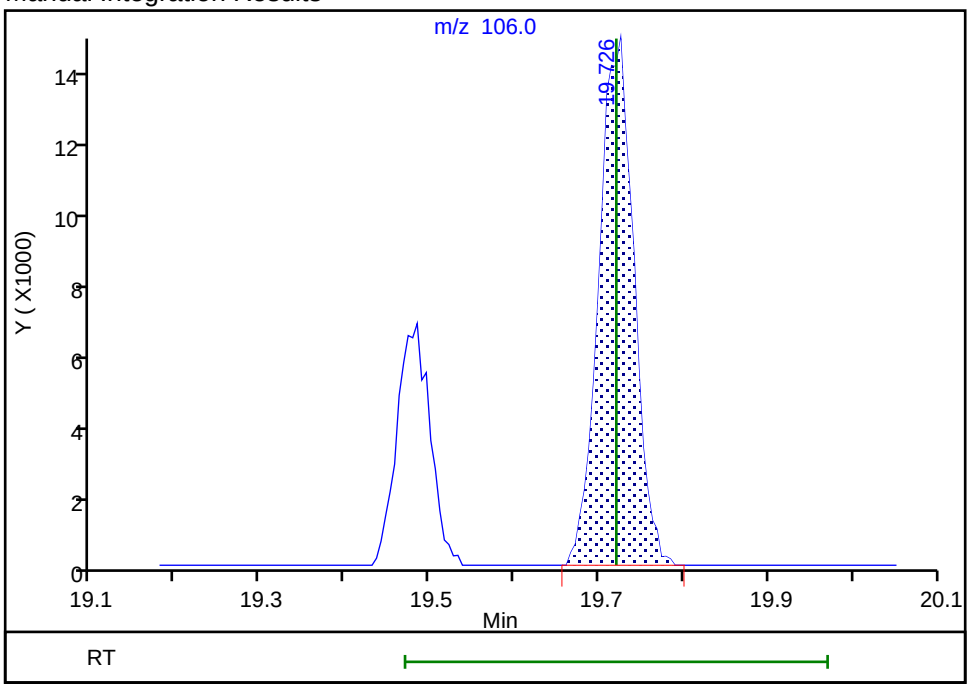
Processing Integration Results

RT: 19.48
Area: 18045
Amount: 0.205263
Amount Units: ppb v/v



Manual Integration Results

RT: 19.73
Area: 41507
Amount: 0.431140
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:39:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

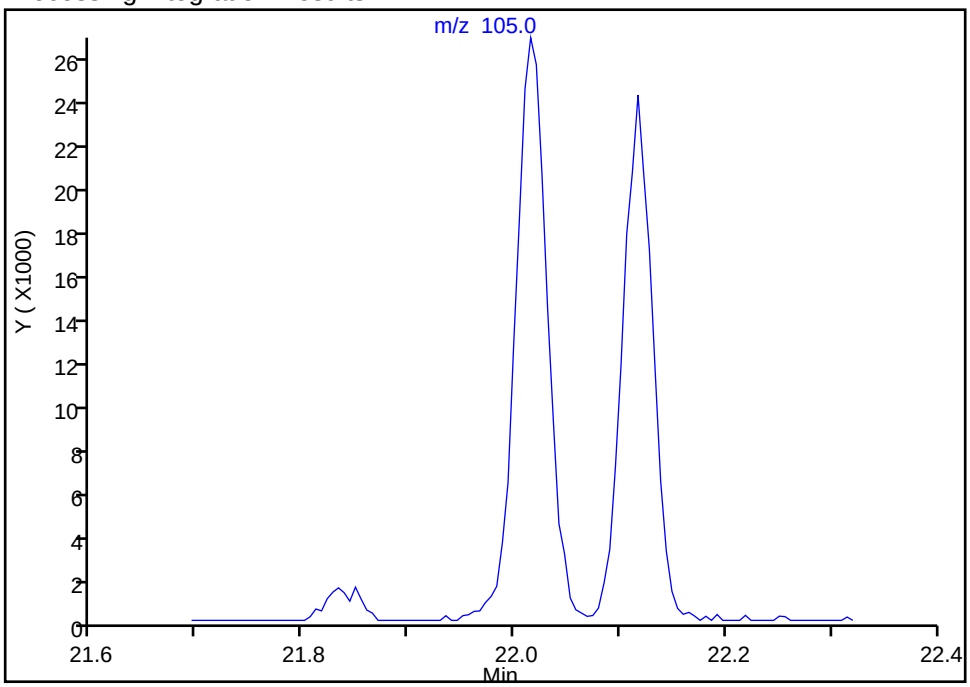
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-05.D				
Injection Date:	07-Dec-2018 23:32:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

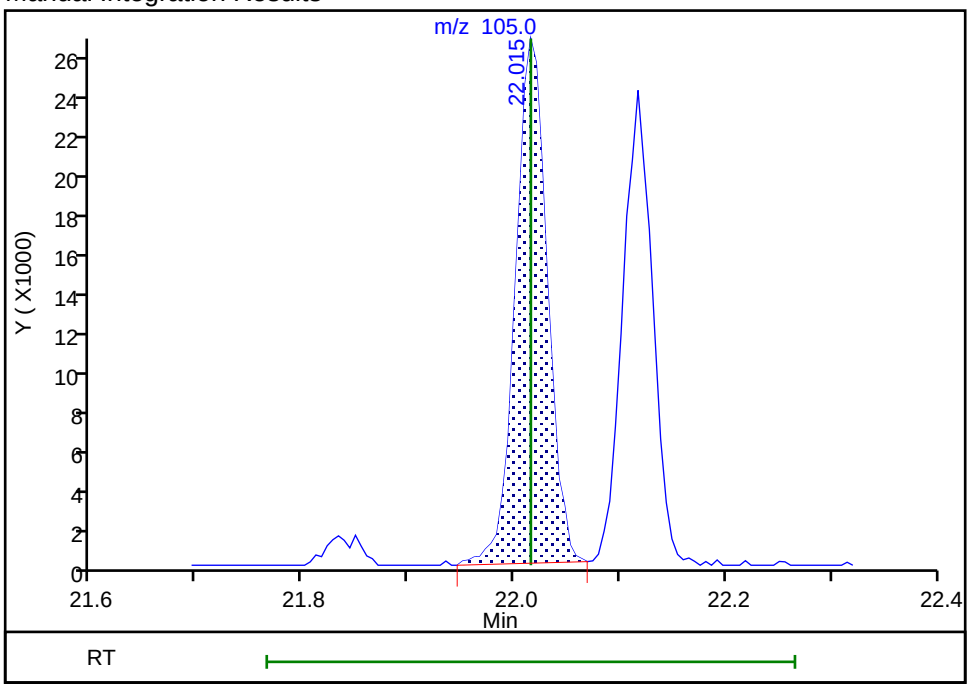
Not Detected
Expected RT: 22.02

Processing Integration Results



Manual Integration Results

RT: 22.02
Area: 56185
Amount: 0.206147
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:39:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

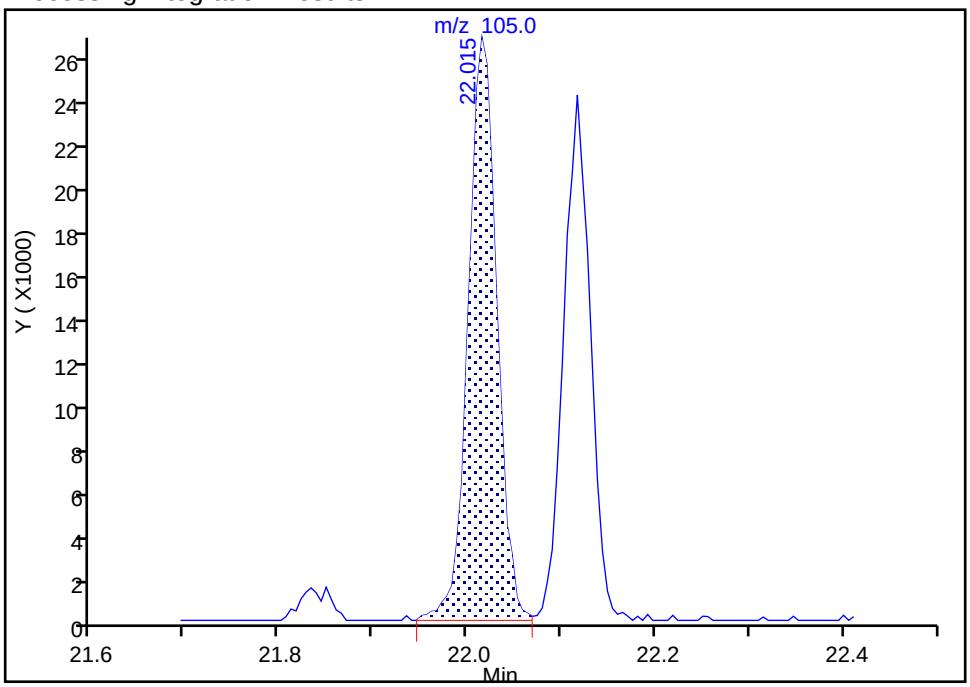
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-05.D
Injection Date: 07-Dec-2018 23:32:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

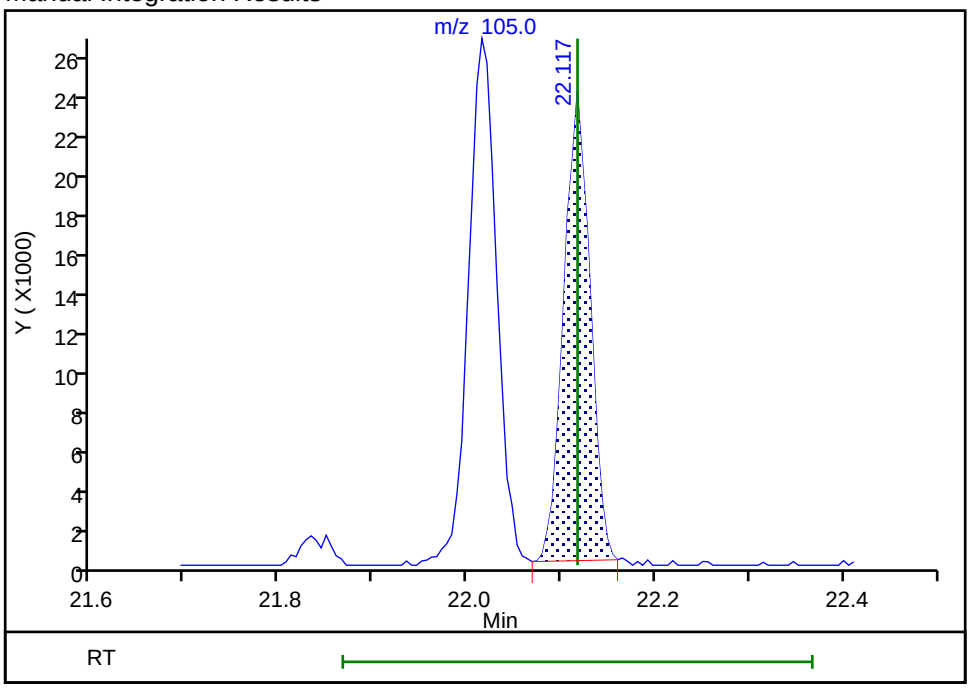
Processing Integration Results

RT: 22.02
Area: 56898
Amount: 0.229424
Amount Units: ppb v/v



Manual Integration Results

RT: 22.12
Area: 46535
Amount: 0.205715
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:39:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-06.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Dec-2018 00:25:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-006
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:28 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 10:40:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.094	4.094	0.000	97	21434	0.5005	0.7316	
2 Dichlorodifluoromethane	85	4.185	4.185	0.000	98	62839	0.5005	0.6386	
3 Chlorodifluoromethane	51	4.249	4.249	0.000	99	40493	0.5005	0.6501	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.527	4.516	0.011	93	66176	0.5005	0.5942	
5 Chloromethane	50	4.709	4.704	0.005	99	24574	0.5005	0.6593	
6 Butane	43	4.944	4.939	0.005	97	51911	0.5005	0.6473	
7 Vinyl chloride	62	5.003	4.998	0.005	97	33379	0.5005	0.5475	
8 Butadiene	54	5.089	5.084	0.005	95	26592	0.5005	0.5328	
10 Bromomethane	94	5.886	5.875	0.011	98	25383	0.5005	0.5867	
11 Chloroethane	64	6.137	6.132	0.005	99	15968	0.5005	0.6046	
12 2-Methylbutane	43	6.207	6.196	0.011	92	37494	0.5005	0.6363	
13 Vinyl bromide	106	6.560	6.555	0.005	98	23678	0.5005	0.5616	
14 Trichlorofluoromethane	101	6.651	6.651	0.000	99	63005	0.5005	0.5836	
16 Pentane	43	6.790	6.785	0.005	97	58348	0.5005	0.6582	
17 Ethanol	45	7.223	7.223	0.000	100	141071	5.01	6.96	
18 Ethyl ether	59	7.330	7.320	0.010	94	21788	0.5005	0.5863	
19 Acrolein	56	7.732	7.726	0.006	54	14695	0.5005	0.7808	
20 1,1,2-Trichloro-1,2,2-trif	101	7.742	7.737	0.005	93	57156	0.5005	0.5760	
21 1,1-Dichloroethene	96	7.801	7.801	0.000	96	28520	0.5005	0.5444	
22 Acetone	43	8.053	8.042	0.011	97	96349	0.5005	1.30	
23 Carbon disulfide	76	8.224	8.224	0.000	100	79865	0.5005	0.5984	
24 Isopropyl alcohol	45	8.320	8.309	0.011	99	58435	0.5005	0.7695	
25 3-Chloro-1-propene	41	8.604	8.604	0.000	98	39217	0.5005	0.6603	
26 Acetonitrile	41	8.753	8.748	0.005	97	25046	0.5005	0.6693	
27 Methylene Chloride	49	8.909	8.909	0.000	95	38405	0.5005	0.6295	
28 2-Methyl-2-propanol	59	9.112	9.101	0.011	97	60605	0.5005	0.6268	
29 Methyl tert-butyl ether	73	9.321	9.304	0.017	97	83689	0.5005	0.5842	
31 trans-1,2-Dichloroethene	61	9.363	9.353	0.010	96	45337	0.5005	0.5841	
32 Acrylonitrile	53	9.524	9.524	0.000	96	23935	0.5005	0.6004	
S 30 1,2-Dichloroethene, Total	61				0		1.00	1.13	
33 Hexane	57	9.732	9.732	0.000	93	50364	0.5005	0.5944	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63	10.262	10.257	0.005	100	56260	0.5005	0.5709	
35 Vinyl acetate	43	10.321	10.316	0.005	99	74872	0.5005	0.6022	
37 cis-1,2-Dichloroethene	96	11.386	11.380	0.006	95	30597	0.5005	0.5444	
38 2-Butanone (MEK)	72	11.428	11.418	0.010	99	20772	0.5005	0.6886	
39 Ethyl acetate	88	11.444	11.439	0.005	98	3170	0.5005	0.6023	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	97	316740	10.0	10.0	
41 Tetrahydrofuran	42	11.862	11.846	0.016	91	38601	0.5005	0.6670	
42 Chloroform	83	11.958	11.953	0.005	98	60933	0.5005	0.5850	
43 Cyclohexane	84	12.199	12.204	-0.005	94	41030	0.5005	0.5652	M
44 1,1,1-Trichloroethane	97	12.225	12.225	0.000	96	58229	0.5005	0.5579	
45 Carbon tetrachloride	117	12.472	12.471	0.001	96	55457	0.5005	0.5439	
46 Isooctane	57	12.862	12.857	0.005	98	150986	0.5005	0.5821	
47 Benzene	78	12.921	12.916	0.005	98	93728	0.5005	0.5847	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	96	43522	0.5005	0.5906	
49 n-Heptane	43	13.210	13.204	0.006	92	60208	0.5005	0.5894	
* 50 1,4-Difluorobenzene	114	13.681	13.675	0.006	97	1435574	10.0	10.0	
52 n-Butanol	56	14.007	14.002	0.005	90	24314	0.5005	0.7230	
A 51 GRO	1	14.092	(6.186-21.993)		0	19527215	0.5005	0	
53 Trichloroethene	95	14.114	14.114	0.000	93	39889	0.5005	0.5426	
54 1,2-Dichloropropane	63	14.622	14.627	-0.005	88	37899	0.5005	0.5830	
55 Methyl methacrylate	69	14.745	14.745	0.000	93	33891	0.5005	0.5595	
56 1,4-Dioxane	88	14.836	14.820	0.016	98	20404	0.5005	0.6296	
57 Dibromomethane	174	14.868	14.868	0.000	92	32292	0.5005	0.5782	
58 Dichlorobromomethane	83	15.125	15.125	0.000	98	58175	0.5005	0.5300	
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	28295034	0.5005	0	
60 cis-1,3-Dichloropropene	75	15.976	15.976	0.000	97	51069	0.5005	0.5495	
61 4-Methyl-2-pentanone (MIBK	43	16.238	16.227	0.011	97	76684	0.5005	0.5948	
65 Toluene	92	16.532	16.521	0.011	92	64249	0.5005	0.5775	
64 n-Octane	43	16.543	16.537	0.006	91	80418	0.5005	0.5789	
66 trans-1,3-Dichloropropene	75	17.083	17.078	0.005	97	48326	0.5005	0.5604	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	98	33806	0.5005	0.5523	
68 Tetrachloroethene	166	17.538	17.538	0.000	91	44640	0.5005	0.5300	
69 2-Hexanone	43	17.853	17.843	0.010	95	72240	0.5005	0.5964	
71 Chlorodibromomethane	129	18.174	18.169	0.005	95	38170	0.5005	0.4057	
72 Ethylene Dibromide	107	18.436	18.436	0.000	97	52209	0.5005	0.5538	
* 74 Chlorobenzene-d5	117	19.287	19.287	0.000	93	1298411	10.0	10.0	
75 Chlorobenzene	112	19.346	19.346	0.000	91	79318	0.5005	0.5780	
76 Ethylbenzene	91	19.480	19.480	0.000	99	131806	0.5005	0.5589	M
77 n-Nonane	57	19.571	19.571	0.000	91	75903	0.5005	0.5790	
S 73 Xylenes, Total	106				0		1.50	1.66	
78 m-Xylene & p-Xylene	106	19.726	19.720	0.006	0	99576	1.00	1.11	
79 o-Xylene	106	20.523	20.523	0.000	97	48454	0.5005	0.5496	
80 Styrene	104	20.576	20.571	0.005	97	71219	0.5005	0.5159	
81 Bromoform	173	20.983	20.978	0.005	91	11776	0.5005	0.1530	
82 Isopropylbenzene	105	21.154	21.154	0.000	98	139141	0.5005	0.5570	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.775	0.005	98	79861	0.5005	0.5569	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	171755	0.5005	0.5551	
86 1,2,3-Trichloropropane	75	21.871	21.876	-0.005	96	67399	0.5005	0.5766	
87 n-Decane	57	21.983	21.983	0.000	93	90609	0.5005	0.5565	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	82	137381	0.5005	0.5423	M
89 2-Chlorotoluene	91	22.031	22.037	-0.006	96	125609	0.5005	0.5552	
88 4-Ethyltoluene	105	22.117	22.117	0.000	92	114920	0.5005	0.5466	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 Alpha Methyl Styrene	118	22.470	22.470	0.000	85	52212	0.5005	0.5015	
92 tert-Butylbenzene	119	22.588	22.588	0.000	89	108251	0.5005	0.5530	
93 1,2,4-Trimethylbenzene	105	22.679	22.679	0.000	99	119617	0.5005	0.5668	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	170000	0.5005	0.5561	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	95	136702	0.5005	0.5496	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	96	71104	0.5005	0.5383	
97 1,4-Dichlorobenzene	146	23.273	23.273	0.000	89	69209	0.5005	0.5438	
98 Benzyl chloride	91	23.471	23.470	0.000	97	78920	0.5005	0.4812	
100 n-Butylbenzene	91	23.674	23.674	0.000	97	135364	0.5005	0.5252	
99 Undecane	57	23.679	23.679	0.000	94	100825	0.5005	0.5595	
101 1,2-Dichlorobenzene	146	23.813	23.813	0.000	91	72613	0.5005	0.5626	
102 Dodecane	57	25.289	25.284	0.005	94	90586	0.5005	0.5659	
103 1,2,4-Trichlorobenzene	180	26.359	26.365	-0.006	93	42662	0.5005	0.5108	
104 Hexachlorobutadiene	225	26.552	26.547	0.005	92	54756	0.5005	0.5539	
105 Naphthalene	128	26.868	26.868	0.000	97	133019	0.5005	0.6618	
106 1,2,3-Trichlorobenzene	180	27.360	27.354	0.006	94	54665	0.5005	0.6280	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL2w_00271	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

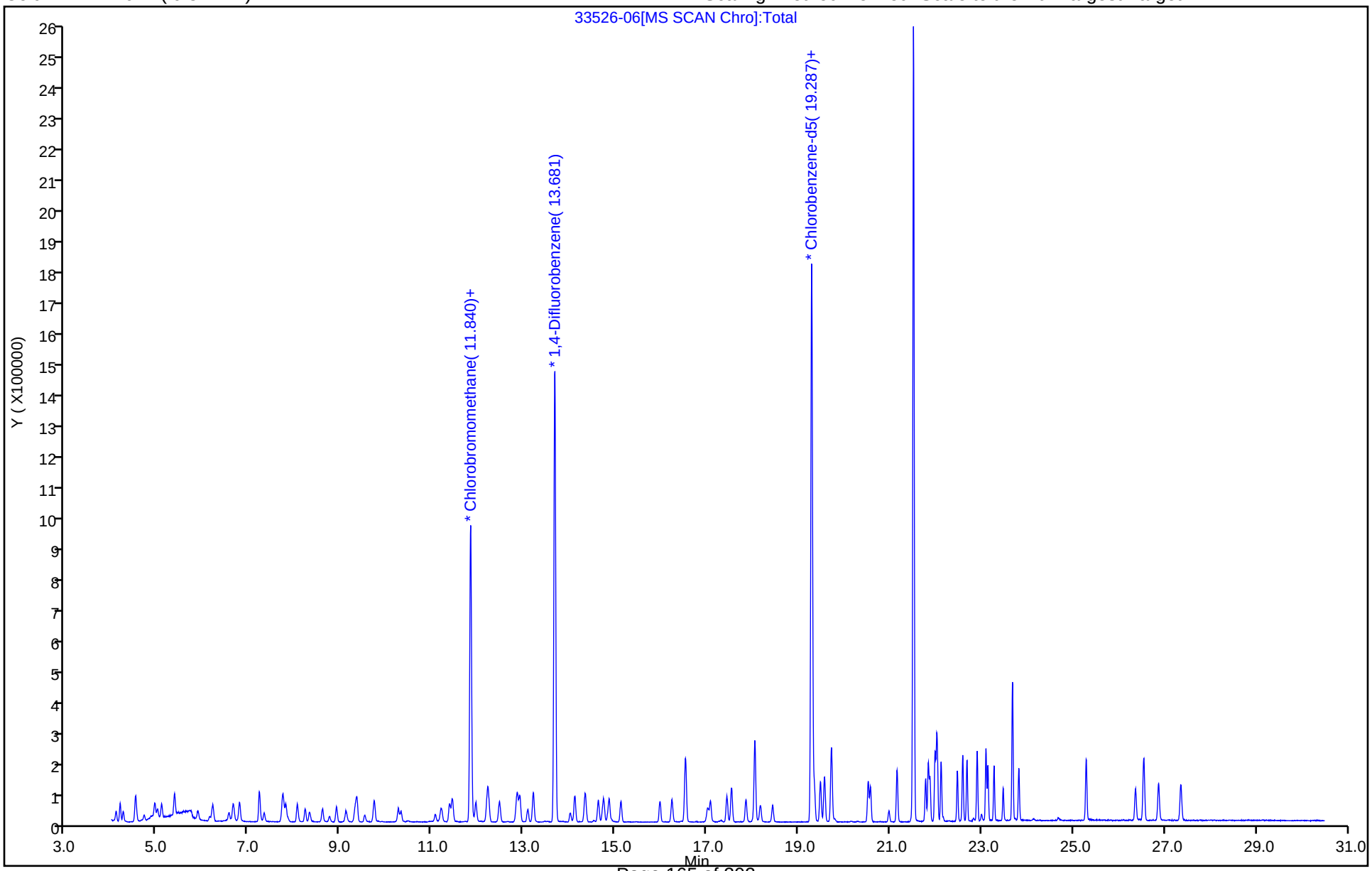
Report Date: 10-Dec-2018 11:54:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-06.D

Injection Date:	08-Dec-2018 00:25:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

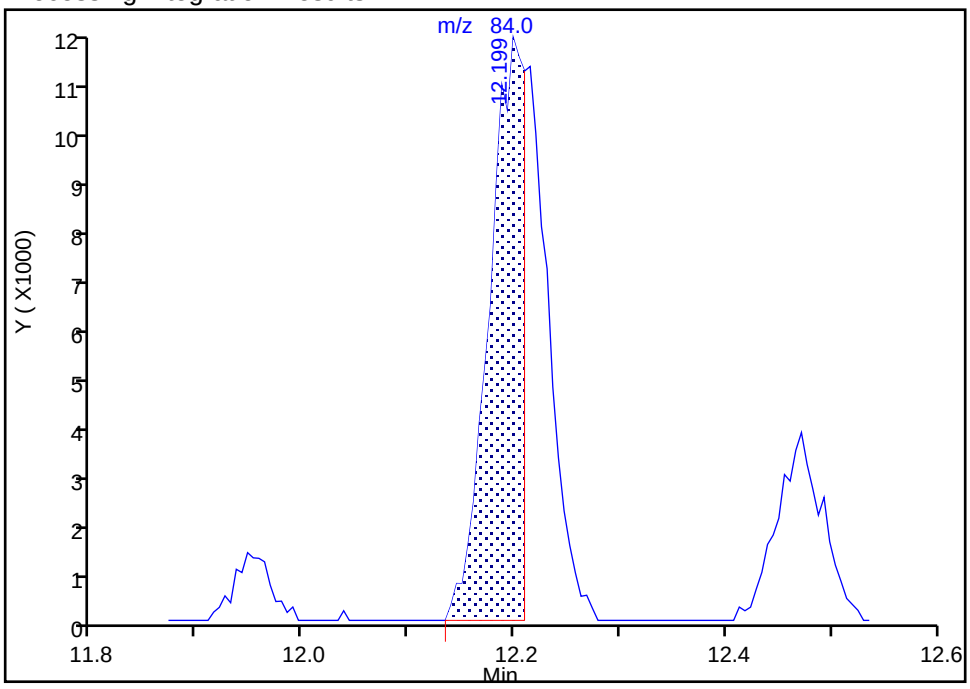
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-06.D
Injection Date: 08-Dec-2018 00:25:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

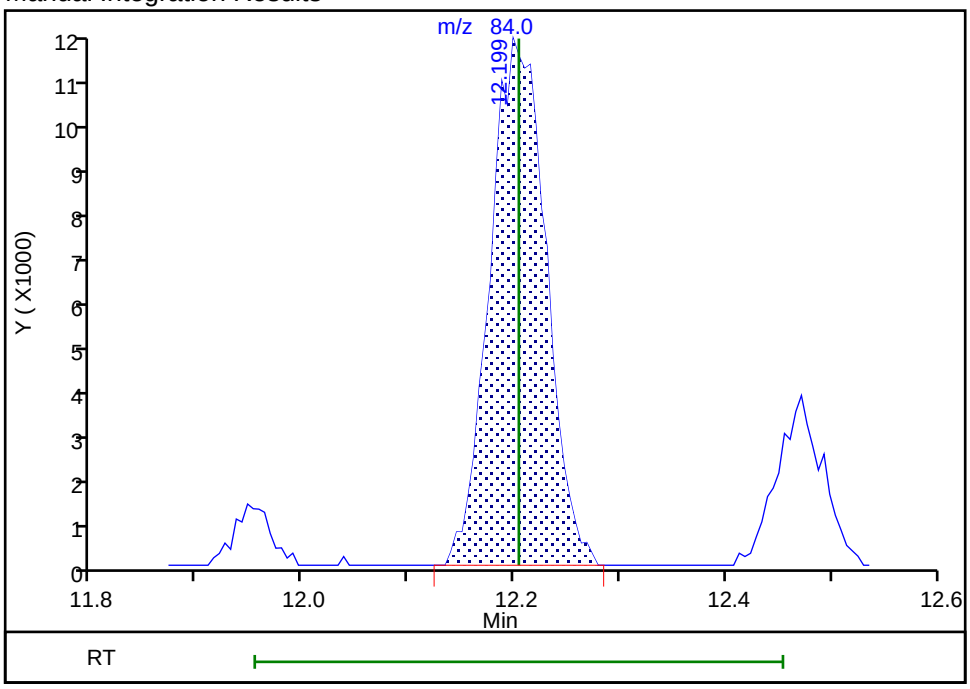
Processing Integration Results

RT: 12.20
Area: 25859
Amount: 0.378847
Amount Units: ppb v/v



Manual Integration Results

RT: 12.20
Area: 41030
Amount: 0.565247
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:40:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

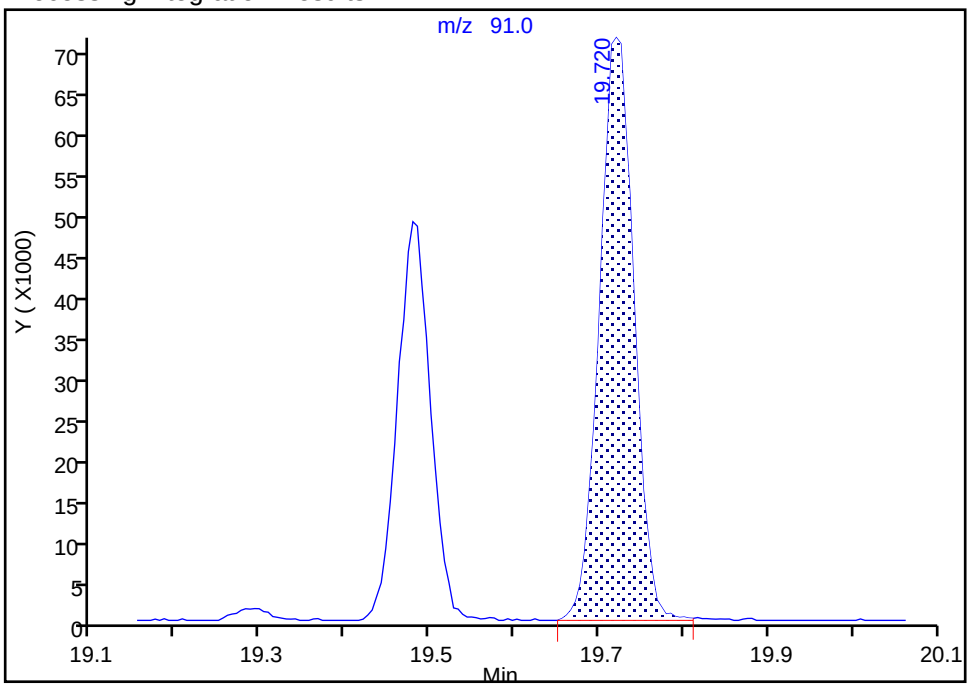
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-06.D				
Injection Date:	08-Dec-2018 00:25:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

76 Ethylbenzene, CAS: 100-41-4

Signal: 1

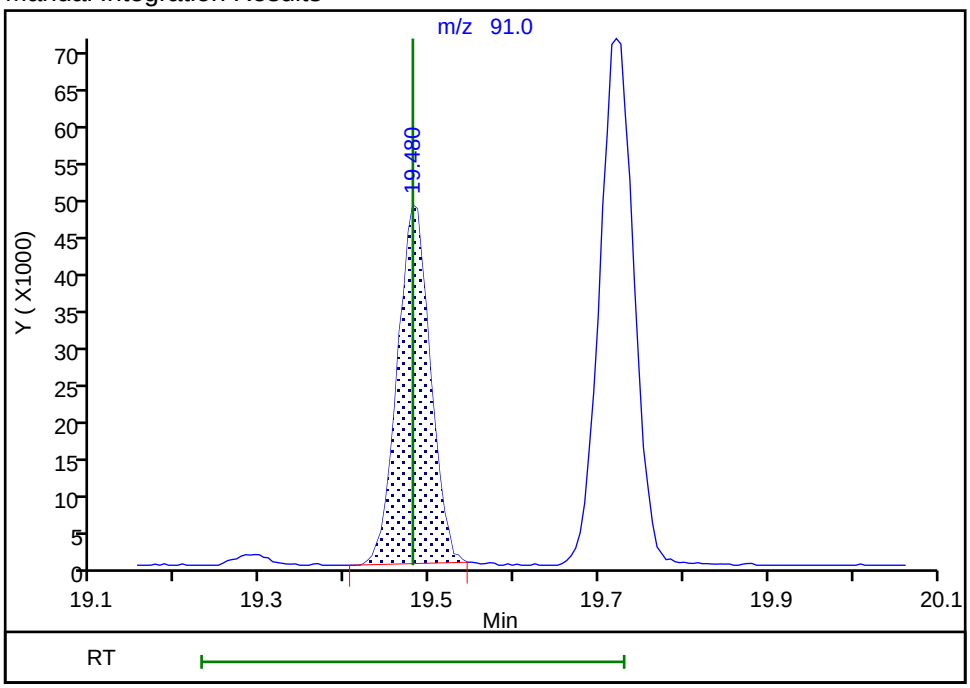
Processing Integration Results

RT: 19.72
Area: 203302
Amount: 0.793460
Amount Units: ppb v/v



Manual Integration Results

RT: 19.48
Area: 131806
Amount: 0.558942
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:40:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

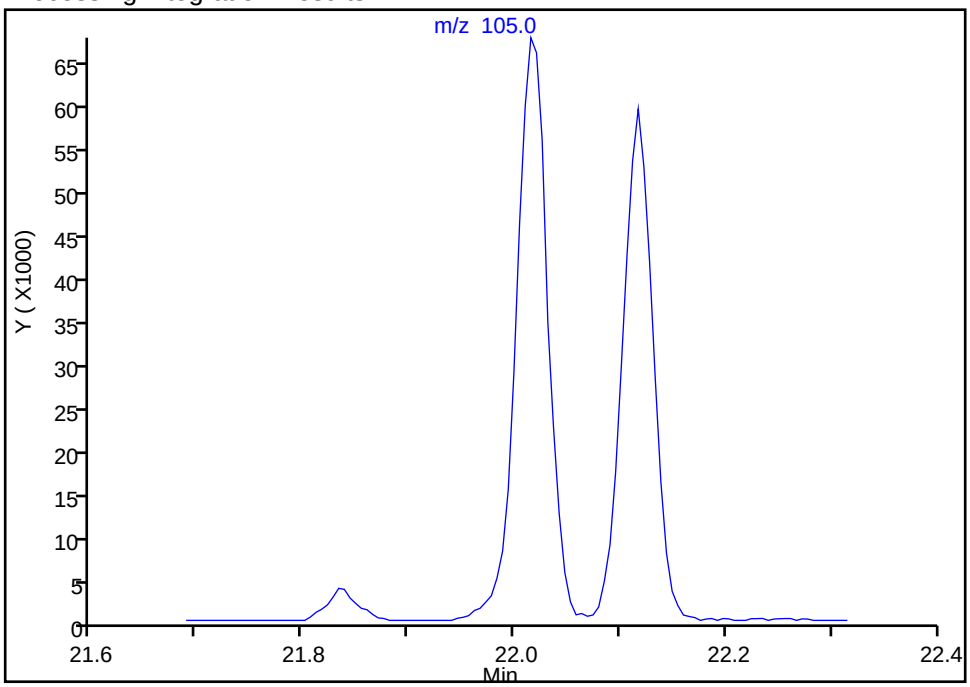
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-06.D				
Injection Date:	08-Dec-2018 00:25:30	Instrument ID:	CHX.i		
Lims ID:	ic				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

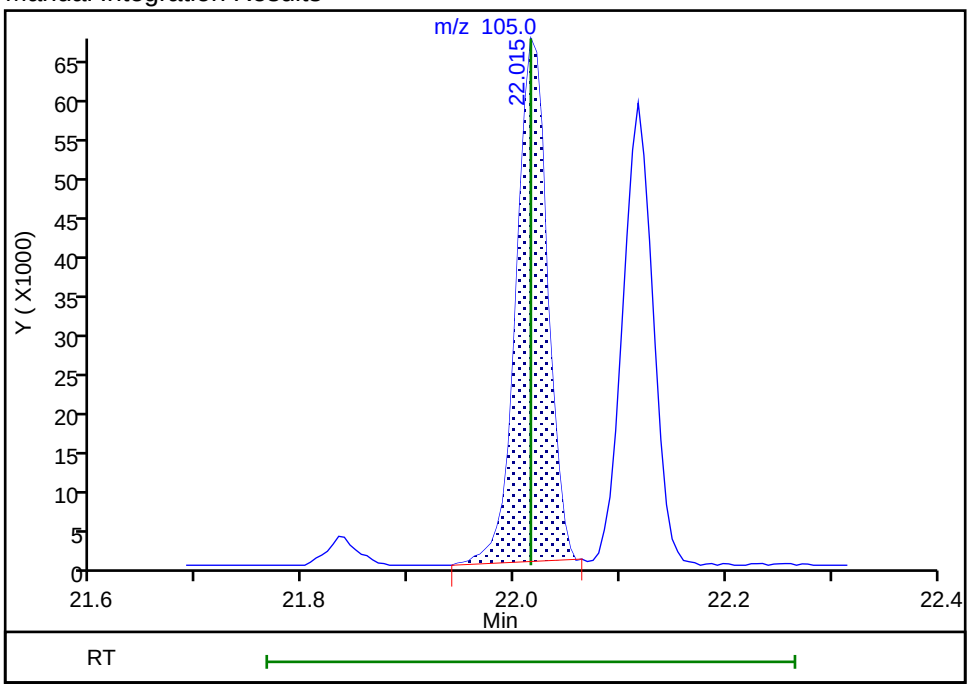
Not Detected
Expected RT: 22.02

Processing Integration Results



Manual Integration Results

RT: 22.02
Area: 137381
Amount: 0.542291
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:40:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

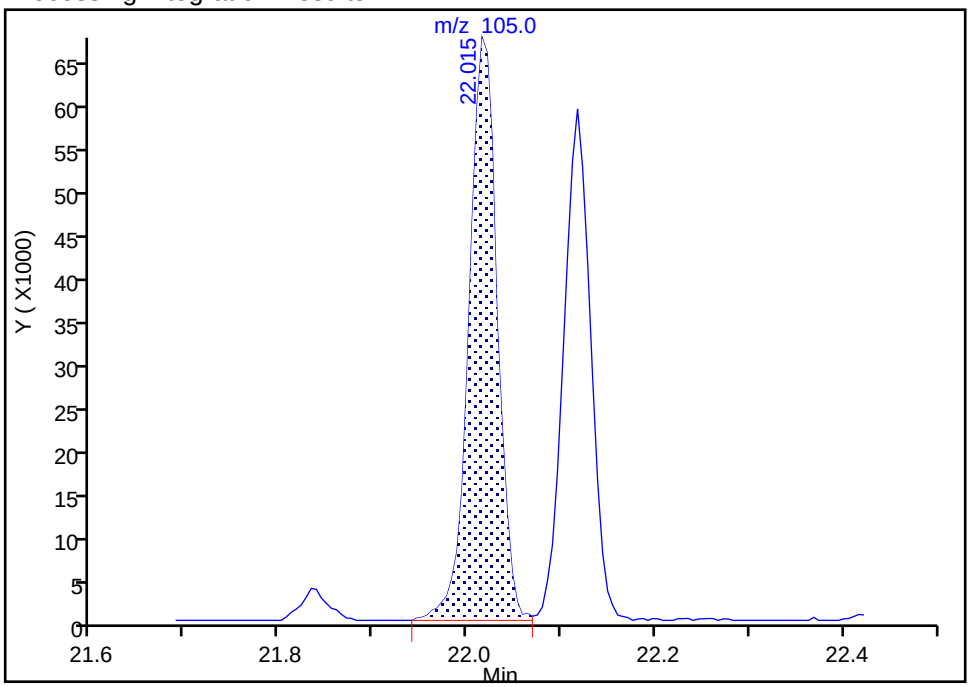
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-06.D
Injection Date: 08-Dec-2018 00:25:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

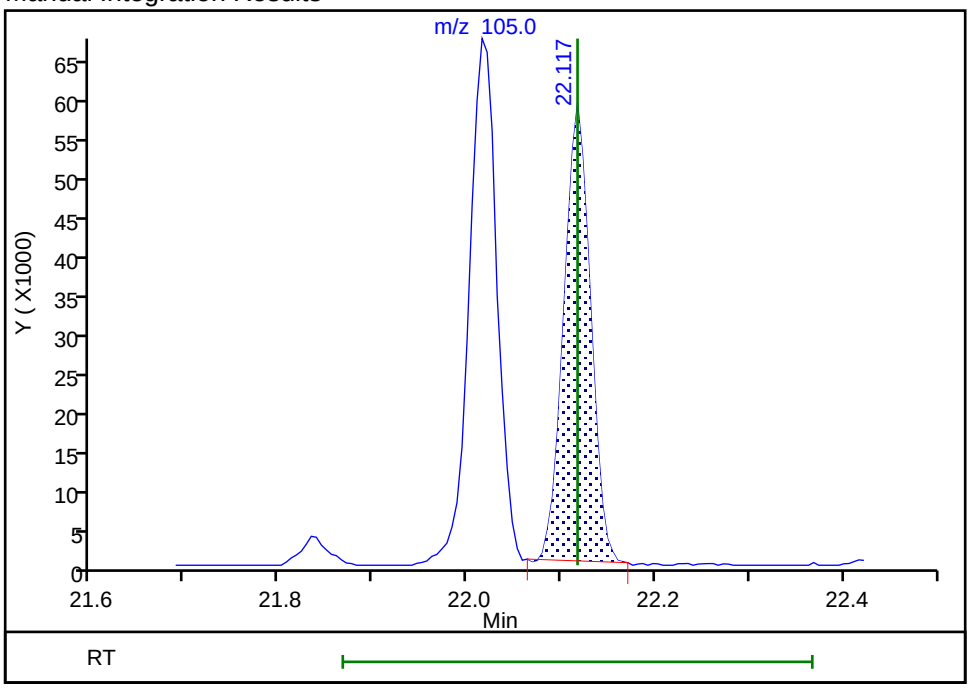
Processing Integration Results

RT: 22.02
Area: 140577
Amount: 0.628544
Amount Units: ppb v/v



Manual Integration Results

RT: 22.12
Area: 114920
Amount: 0.546552
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:40:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-07.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Dec-2018 01:16:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-007
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:31 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 10:41:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.099	4.094	0.005	99	174465	4.99	5.68	
2 Dichlorodifluoromethane	85	4.190	4.185	0.005	99	565744	4.99	5.49	
3 Chlorodifluoromethane	51	4.254	4.249	0.005	98	352730	4.99	5.41	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.522	4.516	0.006	93	606450	4.99	5.20	
5 Chloromethane	50	4.714	4.704	0.010	99	209504	4.99	5.37	
6 Butane	43	4.945	4.939	0.006	97	459351	4.99	5.47	
7 Vinyl chloride	62	5.003	4.998	0.005	98	321509	4.99	5.03	
8 Butadiene	54	5.089	5.084	0.005	95	252539	4.99	4.83	
10 Bromomethane	94	5.881	5.875	0.006	99	225461	4.99	4.97	
11 Chloroethane	64	6.138	6.132	0.006	99	146993	4.99	5.31	
12 2-Methylbutane	43	6.202	6.196	0.006	92	310162	4.99	5.02	
13 Vinyl bromide	106	6.560	6.555	0.005	98	220297	4.99	4.99	
14 Trichlorofluoromethane	101	6.656	6.651	0.005	99	570022	4.99	5.04	
16 Pentane	43	6.790	6.785	0.005	97	479190	4.99	5.16	
17 Ethanol	45	7.229	7.223	0.006	100	212887	10.0	10.0	
18 Ethyl ether	59	7.325	7.320	0.005	93	199210	4.99	5.12	
19 Acrolein	56	7.737	7.726	0.011	97	104137	4.99	5.28	
20 1,1,2-Trichloro-1,2,2-trif	101	7.737	7.737	0.000	93	519101	4.99	4.99	
21 1,1-Dichloroethene	96	7.801	7.801	0.000	98	260057	4.99	4.74	
22 Acetone	43	8.047	8.042	0.005	98	440285	4.99	5.65	
23 Carbon disulfide	76	8.224	8.224	0.000	100	729106	4.99	5.21	
24 Isopropyl alcohol	45	8.315	8.309	0.006	99	473628	4.99	5.95	
25 3-Chloro-1-propene	41	8.604	8.604	0.000	98	280713	4.99	4.51	
26 Acetonitrile	41	8.754	8.748	0.006	97	222635	4.99	5.68	
27 Methylene Chloride	49	8.909	8.909	0.000	95	336485	4.99	5.26	
28 2-Methyl-2-propanol	59	9.107	9.101	0.006	96	581989	4.99	5.75	
29 Methyl tert-butyl ether	73	9.310	9.304	0.006	98	760681	4.99	5.07	
31 trans-1,2-Dichloroethene	61	9.358	9.353	0.005	97	410058	4.99	5.04	
32 Acrylonitrile	53	9.524	9.524	0.000	93	220457	4.99	5.28	
S 30 1,2-Dichloroethene, Total	61				0		9.99	9.81	
33 Hexane	57	9.738	9.732	0.006	94	452505	4.99	5.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63	10.262	10.257	0.005	99	504898	4.99	4.89	
35 Vinyl acetate	43	10.316	10.316	0.000	99	711914	4.99	5.47	
37 cis-1,2-Dichloroethene	96	11.380	11.380	0.000	97	280611	4.99	4.77	
38 2-Butanone (MEK)	72	11.423	11.418	0.005	98	159043	4.99	5.03	
39 Ethyl acetate	88	11.450	11.439	0.011	99	29373	4.99	5.33	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	96	331815	10.0	10.0	
41 Tetrahydrofuran	42	11.846	11.846	0.000	90	339033	4.99	5.61	
42 Chloroform	83	11.958	11.953	0.005	98	553675	4.99	5.07	
43 Cyclohexane	84	12.204	12.204	0.000	97	381673	4.99	5.03	
44 1,1,1-Trichloroethane	97	12.231	12.225	0.006	97	551219	4.99	5.05	
45 Carbon tetrachloride	117	12.472	12.471	0.001	97	523864	4.99	4.92	
46 Isooctane	57	12.857	12.857	0.000	97	1367856	4.99	5.05	
47 Benzene	78	12.916	12.916	0.000	99	834976	4.99	4.99	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	96	388591	4.99	5.05	
49 n-Heptane	43	13.210	13.204	0.006	92	534464	4.99	5.01	
* 50 1,4-Difluorobenzene	114	13.675	13.675	0.000	97	1499722	10.0	10.0	
52 n-Butanol	56	14.007	14.002	0.005	91	199075	4.99	5.67	
A 51 GRO	1	14.092	(6.186-21.993)		0	123353921	4.99	0	
53 Trichloroethene	95	14.114	14.114	0.000	94	364510	4.99	4.75	
54 1,2-Dichloropropane	63	14.627	14.627	0.000	87	343449	4.99	5.06	
55 Methyl methacrylate	69	14.745	14.745	0.000	94	327238	4.99	5.17	
56 1,4-Dioxane	88	14.825	14.820	0.005	99	196187	4.99	5.79	
57 Dibromomethane	174	14.863	14.868	-0.005	94	291400	4.99	4.99	
58 Dichlorobromomethane	83	15.125	15.125	0.000	99	584884	4.99	5.10	
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	199808077	4.99	0	
60 cis-1,3-Dichloropropene	75	15.976	15.976	0.000	96	491314	4.99	5.06	
61 4-Methyl-2-pentanone (MIBK	43	16.227	16.227	0.000	96	704972	4.99	5.23	
65 Toluene	92	16.527	16.521	0.006	92	583193	4.99	4.98	
64 n-Octane	43	16.537	16.537	0.000	90	745978	4.99	5.14	
66 trans-1,3-Dichloropropene	75	17.078	17.078	0.000	99	447994	4.99	4.97	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	98	314572	4.99	4.88	
68 Tetrachloroethene	166	17.538	17.538	0.000	93	423209	4.99	4.77	
69 2-Hexanone	43	17.843	17.843	0.000	96	653492	4.99	5.12	
71 Chlorodibromomethane	129	18.169	18.169	0.000	96	519490	4.99	5.24	
72 Ethylene Dibromide	107	18.436	18.436	0.000	98	503136	4.99	5.07	
* 74 Chlorobenzene-d5	117	19.287	19.287	0.000	92	1367940	10.0	10.0	
75 Chlorobenzene	112	19.346	19.346	0.000	90	724605	4.99	5.01	
76 Ethylbenzene	91	19.480	19.480	0.000	99	1241779	4.99	5.00	
77 n-Nonane	57	19.571	19.571	0.000	89	689197	4.99	4.99	
S 73 Xylenes, Total	106				0		15.0	14.9	
78 m-Xylene & p-Xylene	106	19.720	19.720	0.000	0	933209	9.99	9.90	
79 o-Xylene	106	20.523	20.523	0.000	98	467417	4.99	5.03	
80 Styrene	104	20.576	20.571	0.005	98	739335	4.99	5.08	
81 Bromoform	173	20.978	20.978	0.000	92	437990	4.99	5.40	
82 Isopropylbenzene	105	21.154	21.154	0.000	99	1313097	4.99	4.99	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.775	0.005	99	763675	4.99	5.05	
85 N-Propylbenzene	91	21.834	21.839	-0.005	99	1639892	4.99	5.03	
86 1,2,3-Trichloropropane	75	21.871	21.876	-0.005	96	627110	4.99	5.09	
87 n-Decane	57	21.983	21.983	0.000	93	881761	4.99	5.14	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	82	1315741	4.99	4.93	M
89 2-Chlorotoluene	91	22.031	22.037	-0.006	97	1195205	4.99	5.01	
88 4-Ethyltoluene	105	22.117	22.117	0.000	91	1105195	4.99	4.99	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 Alpha Methyl Styrene	118	22.470	22.470	0.000	83	564711	4.99	5.15	
92 tert-Butylbenzene	119	22.588	22.588	0.000	90	1033693	4.99	5.01	
93 1,2,4-Trimethylbenzene	105	22.679	22.679	0.000	99	1112665	4.99	5.00	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	1610068	4.99	5.00	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	96	1314914	4.99	5.02	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	97	693371	4.99	4.98	
97 1,4-Dichlorobenzene	146	23.273	23.273	0.000	89	661535	4.99	4.93	
98 Benzyl chloride	91	23.471	23.470	0.001	97	875253	4.99	5.07	
100 n-Butylbenzene	91	23.674	23.674	0.000	98	1381474	4.99	5.09	
99 Undecane	57	23.679	23.679	0.000	94	966636	4.99	5.09	
101 1,2-Dichlorobenzene	146	23.813	23.813	0.000	91	683522	4.99	5.03	
102 Dodecane	57	25.284	25.284	0.000	96	870829	4.99	5.16	
103 1,2,4-Trichlorobenzene	180	26.359	26.365	-0.006	92	412019	4.99	4.68	
104 Hexachlorobutadiene	225	26.541	26.547	-0.006	96	517868	4.99	4.97	
105 Naphthalene	128	26.868	26.868	0.000	97	983710	4.99	4.65	
106 1,2,3-Trichlorobenzene	180	27.354	27.354	0.000	95	437034	4.99	4.77	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ATTO15CAL3w_00206	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

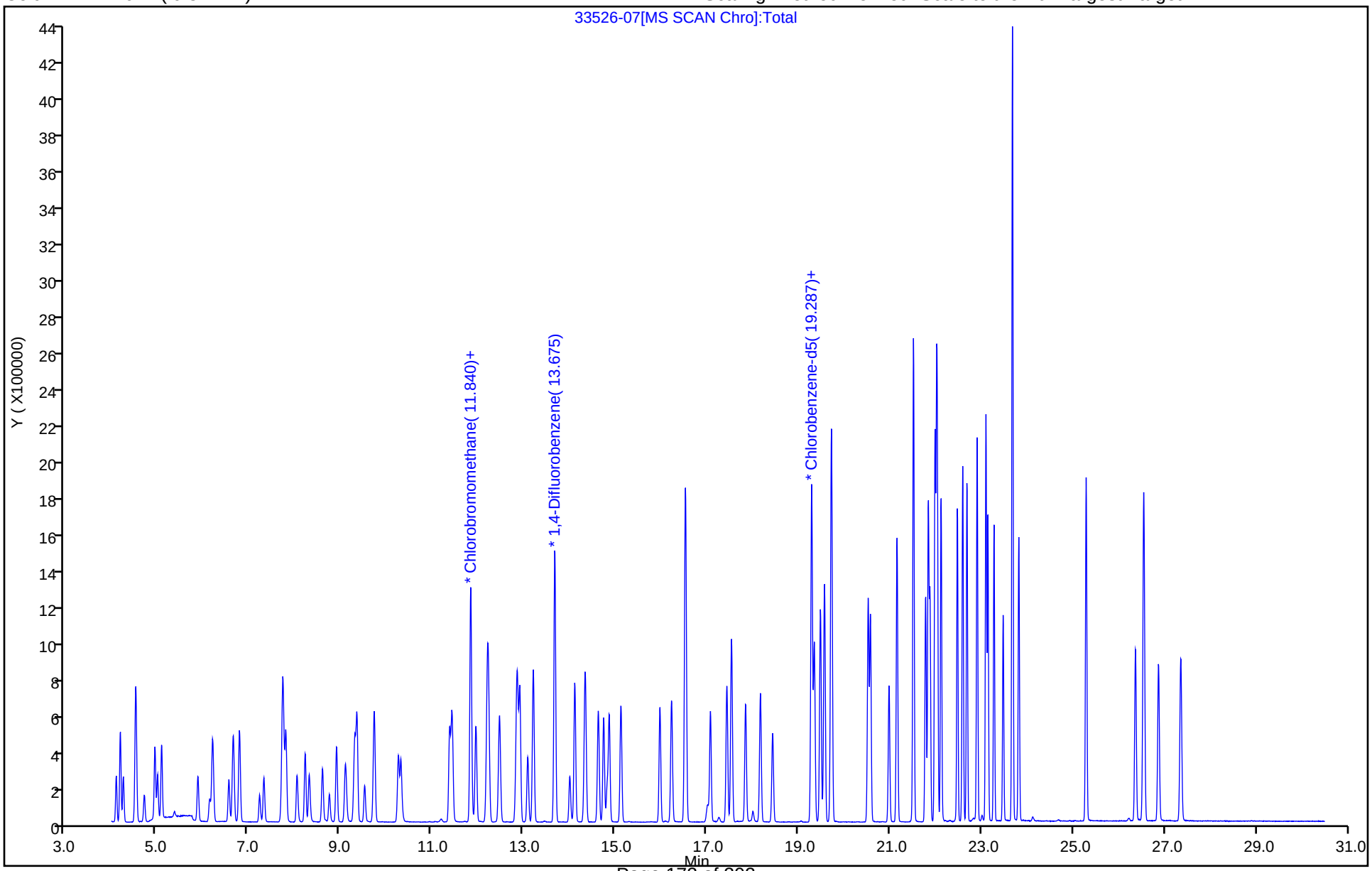
Report Date: 10-Dec-2018 11:54:32 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-07.D

Injection Date:	08-Dec-2018 01:16:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

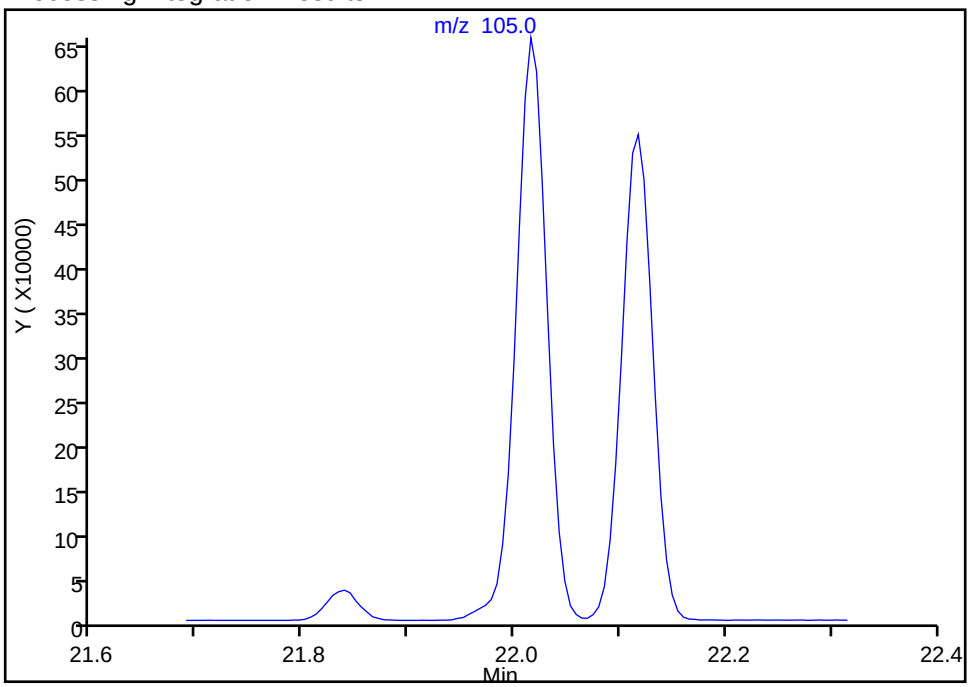
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-07.D
Injection Date: 08-Dec-2018 01:16:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

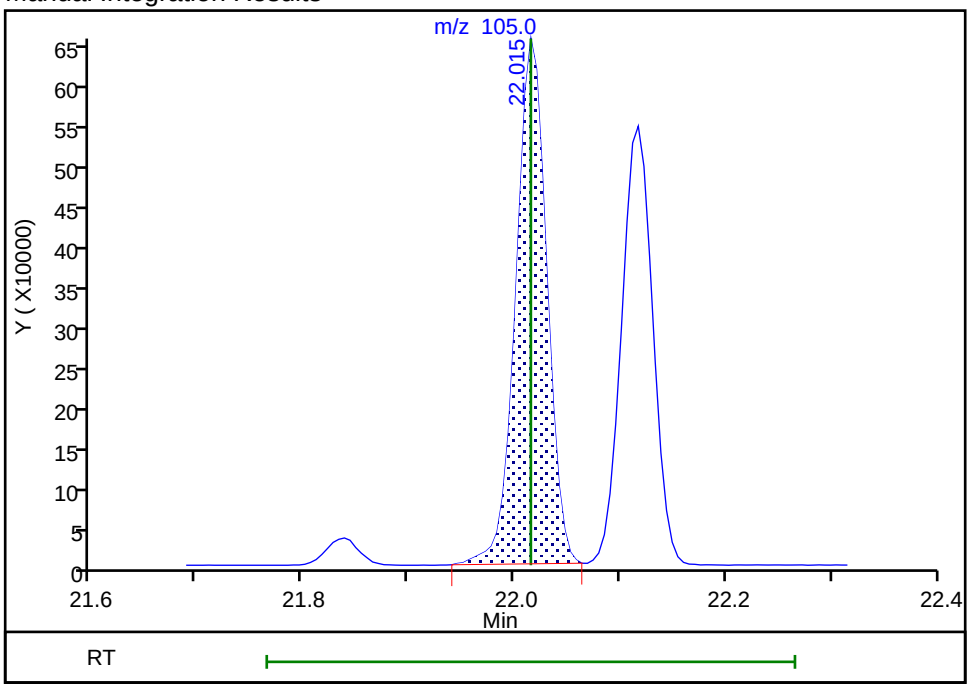
Not Detected
Expected RT: 22.02

Processing Integration Results



Manual Integration Results

RT: 22.02
Area: 1315741
Amount: 4.929705
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:41:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Burlington

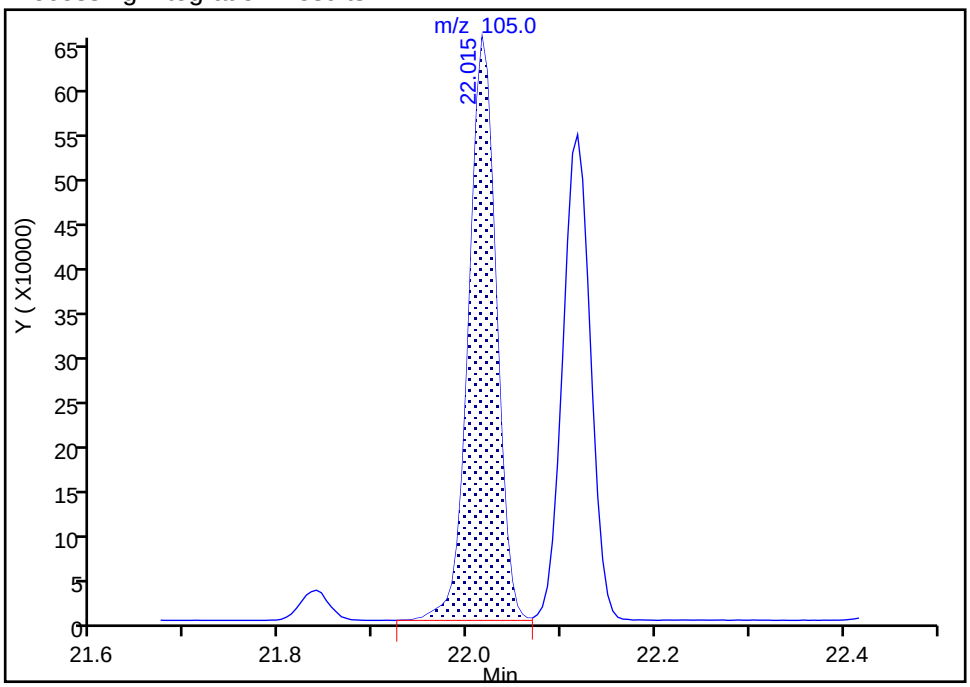
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-07.D
Injection Date: 08-Dec-2018 01:16:30 Instrument ID: CHX.i
Lims ID: ic
Client ID:
Operator ID: GGG ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

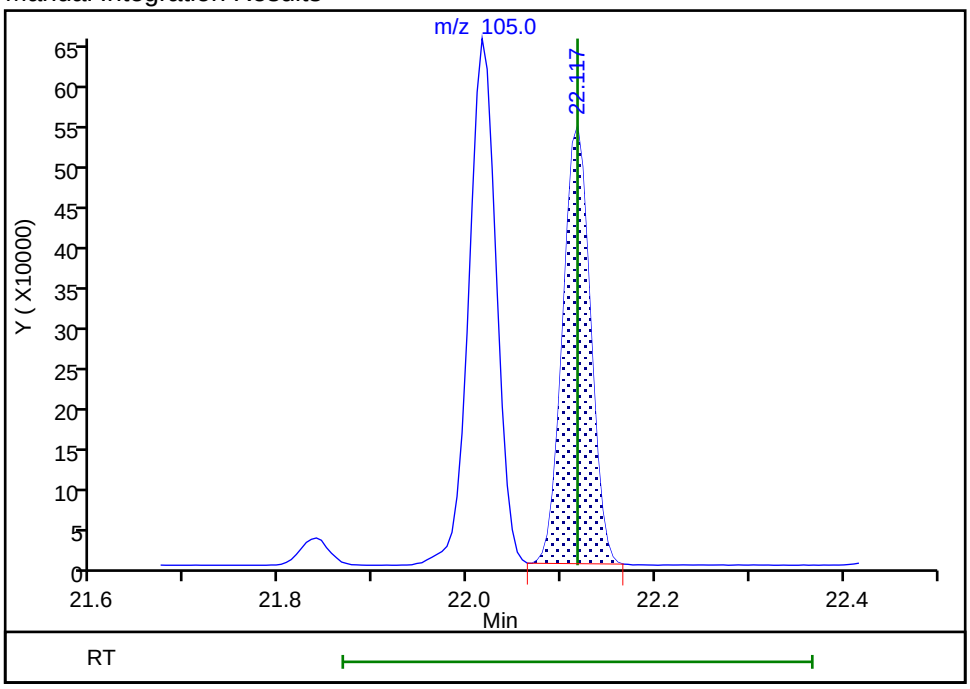
Processing Integration Results

RT: 22.02
Area: 1328601
Amount: 5.829356
Amount Units: ppb v/v



Manual Integration Results

RT: 22.12
Area: 1105195
Amount: 4.989075
Amount Units: ppb v/v



Reviewer: guazzonig, 10-Dec-2018 10:41:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-08.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 08-Dec-2018 02:09:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-008
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:19 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 11:41:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.094	4.094	0.000	99	325536	10.0	10.4	
2 Dichlorodifluoromethane	85	4.185	4.185	0.000	99	1076222	10.0	10.3	
3 Chlorodifluoromethane	51	4.249	4.249	0.000	98	656430	10.0	9.89	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.516	4.516	0.000	96	1156413	10.0	9.75	
5 Chloromethane	50	4.704	4.704	0.000	98	386019	10.0	9.72	
6 Butane	43	4.939	4.939	0.000	96	851768	10.0	9.97	
7 Vinyl chloride	62	4.998	4.998	0.000	98	604894	10.0	9.32	
8 Butadiene	54	5.084	5.084	0.000	95	471348	10.0	8.87	
10 Bromomethane	94	5.875	5.875	0.000	99	430720	10.0	9.35	
11 Chloroethane	64	6.132	6.132	0.000	98	272204	10.0	9.68	
12 2-Methylbutane	43	6.196	6.196	0.000	91	582765	10.0	9.29	
13 Vinyl bromide	106	6.555	6.555	0.000	98	420576	10.0	9.37	
14 Trichlorofluoromethane	101	6.651	6.651	0.000	99	1081928	10.0	9.41	
16 Pentane	43	6.785	6.785	0.000	97	906273	10.0	9.60	
17 Ethanol	45	7.223	7.223	0.000	100	389289	15.0	18.0	
18 Ethyl ether	59	7.320	7.320	0.000	93	376734	10.0	9.52	
19 Acrolein	56	7.726	7.726	0.000	98	197086	10.0	9.83	
20 1,1,2-Trichloro-1,2,2-trif	101	7.737	7.737	0.000	95	994227	10.0	9.41	
21 1,1-Dichloroethene	96	7.801	7.801	0.000	97	495513	10.0	8.88	
22 Acetone	43	8.042	8.042	0.000	97	826215	10.0	10.4	
23 Carbon disulfide	76	8.224	8.224	0.000	100	1382212	10.0	9.72	
24 Isopropyl alcohol	45	8.309	8.309	0.000	99	864761	10.0	10.7	
25 3-Chloro-1-propene	41	8.604	8.604	0.000	99	525333	10.0	8.31	
26 Acetonitrile	41	8.748	8.748	0.000	97	415856	10.0	10.4	
27 Methylene Chloride	49	8.909	8.909	0.000	95	632972	10.0	9.74	
28 2-Methyl-2-propanol	59	9.101	9.101	0.000	96	1083645	10.0	10.5	
29 Methyl tert-butyl ether	73	9.304	9.304	0.000	98	1440028	10.0	9.44	
31 trans-1,2-Dichloroethene	61	9.353	9.353	0.000	97	777683	10.0	9.41	
32 Acrylonitrile	53	9.524	9.524	0.000	93	419902	10.0	9.89	
S 30 1,2-Dichloroethene, Total	61				0		20.0	18.4	
33 Hexane	57	9.732	9.732	0.000	93	853835	10.0	9.46	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63	10.257	10.257	0.000	100	960425	10.0	9.15	
35 Vinyl acetate	43	10.316	10.316	0.000	99	1355096	10.0	10.2	
37 cis-1,2-Dichloroethene	96	11.380	11.380	0.000	98	538172	10.0	8.99	
38 2-Butanone (MEK)	72	11.418	11.418	0.000	99	303271	10.0	9.44	
39 Ethyl acetate	88	11.439	11.439	0.000	98	56427	10.0	10.1	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	96	337354	10.0	10.0	
41 Tetrahydrofuran	42	11.846	11.846	0.000	91	634642	10.0	10.3	
42 Chloroform	83	11.953	11.953	0.000	98	1048502	10.0	9.45	
43 Cyclohexane	84	12.204	12.204	0.000	97	727622	10.0	9.44	
44 1,1,1-Trichloroethane	97	12.225	12.225	0.000	97	1048581	10.0	9.47	
45 Carbon tetrachloride	117	12.471	12.471	0.000	97	1008610	10.0	9.32	
46 Isooctane	57	12.857	12.857	0.000	97	2604432	10.0	9.46	
47 Benzene	78	12.916	12.916	0.000	99	1587404	10.0	9.33	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	96	735162	10.0	9.40	
49 n-Heptane	43	13.204	13.204	0.000	92	1020302	10.0	9.41	
* 50 1,4-Difluorobenzene	114	13.675	13.675	0.000	97	1523649	10.0	10.0	
52 n-Butanol	56	14.002	14.002	0.000	91	379751	10.0	10.6	
A 51 GRO	1	14.090	(6.186-21.993)		0	233086498	10.0	0	
53 Trichloroethene	95	14.114	14.114	0.000	94	699283	10.0	8.96	
54 1,2-Dichloropropane	63	14.627	14.627	0.000	87	655196	10.0	9.50	
55 Methyl methacrylate	69	14.745	14.745	0.000	95	633520	10.0	9.85	
56 1,4-Dioxane	88	14.820	14.820	0.000	98	374381	10.0	10.9	
57 Dibromomethane	174	14.868	14.868	0.000	95	566637	10.0	9.56	
58 Dichlorobromomethane	83	15.125	15.125	0.000	99	1128888	10.0	9.69	
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	384167665	10.0	0	
60 cis-1,3-Dichloropropene	75	15.976	15.976	0.000	96	948895	10.0	9.62	
61 4-Methyl-2-pentanone (MIBK	43	16.227	16.227	0.000	96	1358070	10.0	9.93	
65 Toluene	92	16.521	16.521	0.000	95	1124735	10.0	9.38	
64 n-Octane	43	16.537	16.537	0.000	90	1434492	10.0	9.73	
66 trans-1,3-Dichloropropene	75	17.078	17.078	0.000	99	858822	10.0	9.38	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	98	601975	10.0	9.13	
68 Tetrachloroethene	166	17.538	17.538	0.000	93	817852	10.0	9.01	
69 2-Hexanone	43	17.843	17.843	0.000	96	1273761	10.0	9.76	
71 Chlorodibromomethane	129	18.169	18.169	0.000	96	1019927	10.0	10.1	
72 Ethylene Dibromide	107	18.436	18.436	0.000	98	972365	10.0	9.57	
* 74 Chlorobenzene-d5	117	19.287	19.287	0.000	92	1399059	10.0	10.0	
75 Chlorobenzene	112	19.346	19.346	0.000	90	1394519	10.0	9.43	
77 n-Nonane	57	19.571	19.571	0.000	88	1351269	10.0	9.57	
S 73 Xylenes, Total	106				0		30.0	28.8	
78 m-Xylene & p-Xylene	106	19.720	19.720	0.000	0	1846264	20.0	19.1	
76 Ethylbenzene	91	19.480	19.480	0.000	99	2422453	10.0	9.53	
79 o-Xylene	106	20.523	20.523	0.000	98	916002	10.0	9.64	
80 Styrene	104	20.571	20.571	0.000	97	1471471	10.0	9.89	
81 Bromoform	173	20.978	20.978	0.000	95	887937	10.0	10.7	
82 Isopropylbenzene	105	21.154	21.154	0.000	99	2591685	10.0	9.63	
84 1,1,2,2-Tetrachloroethane	83	21.775	21.775	0.000	99	1492318	10.0	9.66	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	3235348	10.0	9.70	
86 1,2,3-Trichloropropane	75	21.876	21.876	0.000	96	1230275	10.0	9.77	
87 n-Decane	57	21.983	21.983	0.000	93	1749618	10.0	9.97	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	85	2690528	10.0	9.86	
88 4-Ethyltoluene	105	22.117	22.117	0.000	92	2216796	10.0	9.78	
89 2-Chlorotoluene	91	22.037	22.037	0.000	97	2381378	10.0	9.77	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 Alpha Methyl Styrene	118	22.470	22.470	0.000	83	1141636	10.0	10.2	
92 tert-Butylbenzene	119	22.588	22.588	0.000	90	2046298	10.0	9.70	
93 1,2,4-Trimethylbenzene	105	22.679	22.679	0.000	99	2207341	10.0	9.71	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	3203490	10.0	9.72	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	95	2635371	10.0	9.83	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	97	1387700	10.0	9.75	
97 1,4-Dichlorobenzene	146	23.273	23.273	0.000	90	1347090	10.0	9.82	
98 Benzyl chloride	91	23.470	23.470	0.000	97	1831906	10.0	10.4	
100 n-Butylbenzene	91	23.674	23.674	0.000	98	2830065	10.0	10.2	
99 Undecane	57	23.679	23.679	0.000	94	1952461	10.0	10.1	
101 1,2-Dichlorobenzene	146	23.813	23.813	0.000	91	1358808	10.0	9.77	
102 Dodecane	57	25.284	25.284	0.000	96	1699411	10.0	9.85	
103 1,2,4-Trichlorobenzene	180	26.365	26.365	0.000	94	884859	10.0	9.83	
104 Hexachlorobutadiene	225	26.547	26.547	0.000	95	1044061	10.0	9.80	
105 Naphthalene	128	26.868	26.868	0.000	97	2040061	10.0	9.42	
106 1,2,3-Trichlorobenzene	180	27.354	27.354	0.000	94	893952	10.0	9.53	

Reagents:

ATTO15CAL4w_00714	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

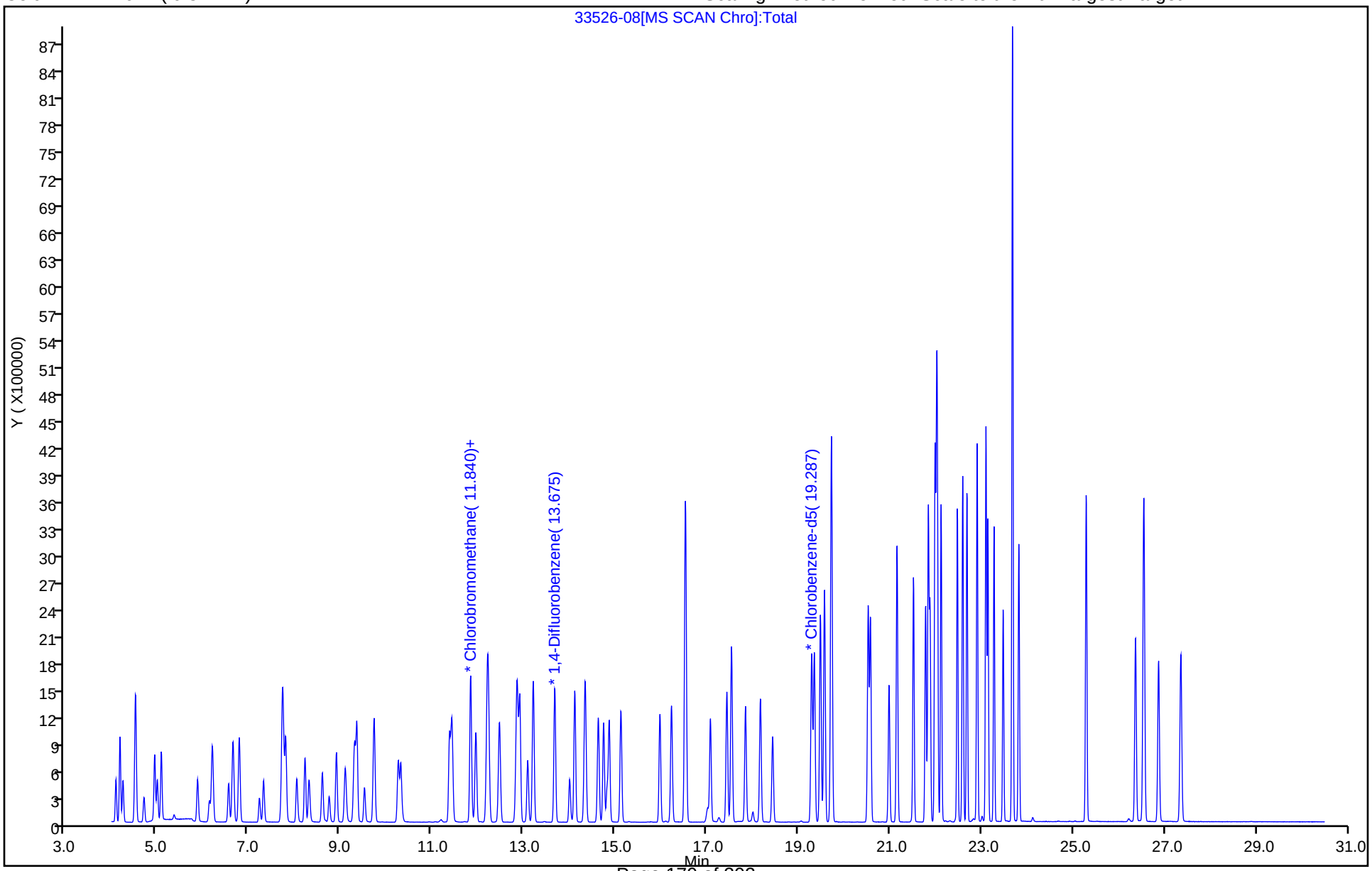
Report Date: 10-Dec-2018 11:54:20 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-08.D

Injection Date:	08-Dec-2018 02:09:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	icis			Worklist Smp#:	8
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-11.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-Dec-2018 04:46:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-011
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:34 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 11:35:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.099	4.094	0.005	98	1232352	40.0	35.5	
2 Dichlorodifluoromethane	85	4.190	4.185	0.005	98	3666949	40.0	31.4	
3 Chlorodifluoromethane	51	4.254	4.249	0.005	99	2405343	40.0	32.6	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.527	4.516	0.011	95	3977785	40.0	30.1	
5 Chloromethane	50	4.714	4.704	0.010	98	1415498	40.0	32.0	
6 Butane	43	4.944	4.939	0.005	96	3193715	40.0	33.6	
7 Vinyl chloride	62	5.003	4.998	0.005	98	2229740	40.0	30.8	
8 Butadiene	54	5.094	5.084	0.010	95	1752785	40.0	29.6	
10 Bromomethane	94	5.886	5.875	0.011	98	1763257	40.0	34.4	
11 Chloroethane	64	6.143	6.132	0.011	98	1086339	40.0	34.7	
12 2-Methylbutane	43	6.207	6.196	0.011	91	2312239	40.0	33.1	
13 Vinyl bromide	106	6.565	6.555	0.010	98	1719685	40.0	34.4	
14 Trichlorofluoromethane	101	6.656	6.651	0.005	99	4508248	40.0	35.2	
16 Pentane	43	6.795	6.785	0.010	97	3614459	40.0	34.4	
17 Ethanol	45	7.229	7.223	0.006	100	1738597	100.0	72.3	
18 Ethyl ether	59	7.320	7.320	0.000	94	1505876	40.0	34.2	
19 Acrolein	56	7.732	7.726	0.006	98	773807	40.0	34.7	
20 1,1,2-Trichloro-1,2,2-trif	101	7.742	7.737	0.005	94	4169048	40.0	35.4	
21 1,1-Dichloroethene	96	7.806	7.801	0.005	97	2052483	40.0	33.0	
22 Acetone	43	8.042	8.042	0.000	97	3125993	40.0	35.5	
23 Carbon disulfide	76	8.229	8.224	0.005	100	5637779	40.0	35.6	
24 Isopropyl alcohol	45	8.309	8.309	0.000	100	2988872	40.0	33.2	
25 3-Chloro-1-propene	41	8.609	8.604	0.005	99	2500254	40.0	35.5	
26 Acetonitrile	41	8.753	8.748	0.005	97	1562007	40.0	35.2	
27 Methylene Chloride	49	8.914	8.909	0.005	94	2488352	40.0	34.4	
28 2-Methyl-2-propanol	59	9.101	9.101	0.000	96	3913801	40.0	34.1	
29 Methyl tert-butyl ether	73	9.304	9.304	0.000	98	5830542	40.0	34.3	
31 trans-1,2-Dichloroethene	61	9.363	9.353	0.010	97	3196946	40.0	34.7	
32 Acrylonitrile	53	9.524	9.524	0.000	93	1647994	40.0	34.9	
S 30 1,2-Dichloroethene, Total	61				0		80.0	67.5	
33 Hexane	57	9.738	9.732	0.006	93	3437426	40.0	34.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63	10.267	10.257	0.010	99	3849574	40.0	32.9	
35 Vinyl acetate	43	10.316	10.316	0.000	99	5370517	40.0	36.4	
37 cis-1,2-Dichloroethene	96	11.380	11.380	0.000	95	2183063	40.0	32.8	
38 2-Butanone (MEK)	72	11.418	11.418	0.000	100	1203288	40.0	33.6	
39 Ethyl acetate	88	11.439	11.439	0.000	98	227417	40.0	36.4	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	92	375520	10.0	10.0	
41 Tetrahydrofuran	42	11.840	11.846	-0.006	90	2376296	40.0	36.1	
42 Chloroform	83	11.958	11.953	0.005	98	4276148	40.0	34.6	
43 Cyclohexane	84	12.209	12.204	0.005	98	3010362	40.0	36.4	
44 1,1,1-Trichloroethane	97	12.231	12.225	0.006	98	4387355	40.0	36.9	
45 Carbon tetrachloride	117	12.471	12.471	0.000	98	4178605	40.0	36.0	
46 Isooctane	57	12.857	12.857	0.000	98	10409722	40.0	35.3	
47 Benzene	78	12.921	12.916	0.005	98	6481619	40.0	35.5	
48 1,2-Dichloroethane	62	13.092	13.087	0.005	96	2920743	40.0	34.8	
49 n-Heptane	43	13.210	13.204	0.006	91	3992381	40.0	34.3	
* 50 1,4-Difluorobenzene	114	13.680	13.675	0.005	97	1634304	10.0	10.0	
52 n-Butanol	56	14.001	14.002	-0.001	90	1399856	40.0	36.6	
A 51 GRO	1	14.090	(6.186-21.993)		0	914547792	40.0	0	
53 Trichloroethene	95	14.119	14.114	0.005	94	2883591	40.0	34.5	
54 1,2-Dichloropropane	63	14.633	14.627	0.006	88	2589772	40.0	35.0	
55 Methyl methacrylate	69	14.745	14.745	0.000	96	2513310	40.0	36.4	
56 1,4-Dioxane	88	14.820	14.820	0.000	98	1268753	40.0	34.4	
57 Dibromomethane	174	14.868	14.868	0.000	94	2295206	40.0	36.1	
58 Dichlorobromomethane	83	15.125	15.125	0.000	99	4604773	40.0	36.8	
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	1532878599	40.0	0	
60 cis-1,3-Dichloropropene	75	15.975	15.976	-0.001	94	3829099	40.0	36.2	
61 4-Methyl-2-pentanone (MIBK	43	16.227	16.227	0.000	96	5268654	40.0	35.9	
65 Toluene	92	16.527	16.521	0.005	92	4533190	40.0	36.1	
64 n-Octane	43	16.543	16.537	0.006	92	5449480	40.0	34.5	
66 trans-1,3-Dichloropropene	75	17.078	17.078	0.000	99	3517443	40.0	35.8	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	98	2369963	40.0	34.3	
68 Tetrachloroethene	166	17.543	17.538	0.005	93	3248325	40.0	34.1	
69 2-Hexanone	43	17.843	17.843	0.000	96	5001664	40.0	36.6	
71 Chlorodibromomethane	129	18.174	18.169	0.005	96	4209491	40.0	39.6	
72 Ethylene Dibromide	107	18.442	18.436	0.006	98	3891473	40.0	36.5	
* 74 Chlorobenzene-d5	117	19.292	19.287	0.005	92	1466900	10.0	10.0	
75 Chlorobenzene	112	19.351	19.346	0.005	89	5541451	40.0	35.7	
76 Ethylbenzene	91	19.485	19.480	0.005	99	9843384	40.0	36.9	
77 n-Nonane	57	19.570	19.571	-0.001	87	5473125	40.0	37.0	
S 73 Xylenes, Total	106				0		120.0	112.8	
78 m-Xylene & p-Xylene	106	19.726	19.720	0.006	0	7620944	80.0	75.4	
79 o-Xylene	106	20.528	20.523	0.005	98	3730816	40.0	37.5	
80 Styrene	104	20.576	20.571	0.005	97	6165333	40.0	39.5	
81 Bromoform	173	20.983	20.978	0.005	94	3975613	40.0	45.7	
82 Isopropylbenzene	105	21.154	21.154	0.000	98	10556704	40.0	37.4	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.775	0.005	99	6064947	40.0	37.4	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	13008019	40.0	37.2	
86 1,2,3-Trichloropropane	75	21.876	21.876	0.000	97	4979888	40.0	37.7	
87 n-Decane	57	21.989	21.983	0.006	92	7137158	40.0	38.8	
90 1,3,5-Trimethylbenzene	105	22.021	22.015	0.006	85	10873162	40.0	38.0	
89 2-Chlorotoluene	91	22.037	22.037	0.000	97	9709474	40.0	38.0	
88 4-Ethyltoluene	105	22.117	22.117	0.000	92	9157709	40.0	38.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 Alpha Methyl Styrene	118	22.475	22.470	0.005	83	4743231	40.0	40.3	
92 tert-Butylbenzene	119	22.593	22.588	0.005	91	8404186	40.0	38.0	
93 1,2,4-Trimethylbenzene	105	22.684	22.679	0.005	99	9227595	40.0	38.7	
94 sec-Butylbenzene	105	22.909	22.903	0.006	96	12997580	40.0	37.6	
95 4-Isopropyltoluene	119	23.101	23.096	0.005	95	11054466	40.0	39.3	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	98	5935742	40.0	39.8	
97 1,4-Dichlorobenzene	146	23.278	23.273	0.005	91	5742559	40.0	39.9	
98 Benzyl chloride	91	23.476	23.470	0.006	98	8357790	40.0	45.1	
100 n-Butylbenzene	91	23.674	23.674	0.000	99	11041288	40.0	37.9	
99 Undecane	57	23.679	23.679	0.000	92	7609700	40.0	37.4	
101 1,2-Dichlorobenzene	146	23.818	23.813	0.005	92	5736761	40.0	39.3	
102 Dodecane	57	25.289	25.284	0.005	97	7610053	40.0	42.1	
103 1,2,4-Trichlorobenzene	180	26.365	26.365	0.000	94	4249167	40.0	45.0	
104 Hexachlorobutadiene	225	26.547	26.547	-0.001	97	4515982	40.0	40.4	
105 Naphthalene	128	26.867	26.868	-0.001	97	9659413	40.0	42.5	
106 1,2,3-Trichlorobenzene	180	27.354	27.354	0.000	94	4147044	40.0	42.2	

Reagents:

ATTO15CAL7w_00079	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

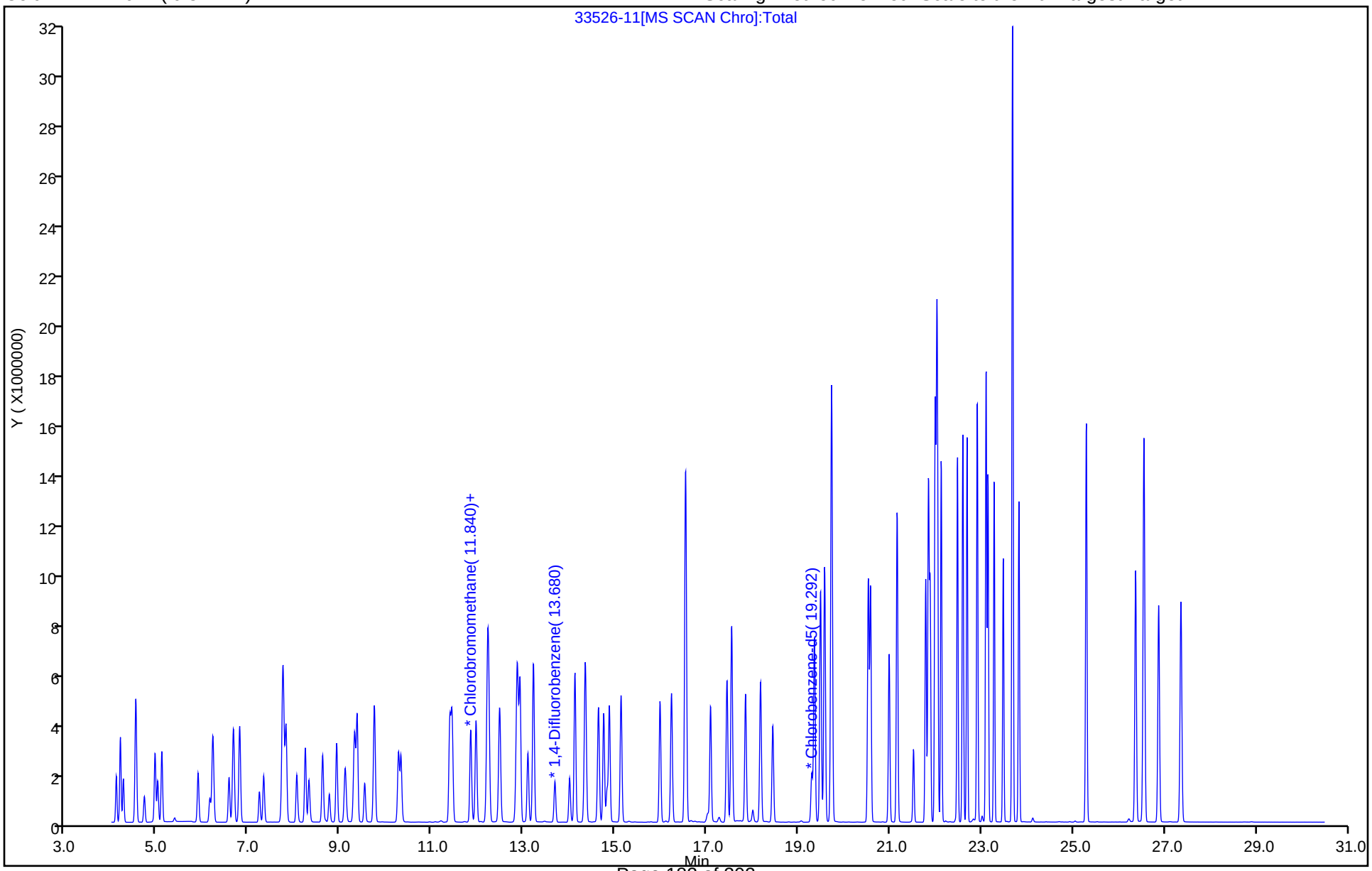
Report Date: 10-Dec-2018 11:54:35 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-11.D

Injection Date:	08-Dec-2018 04:46:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-15.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Dec-2018 13:19:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-015
Misc. Info.: IC 15
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:37 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 09:40:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.099	4.094	0.005	98	653920	20.0	18.6	
2 Dichlorodifluoromethane	85	4.190	4.185	0.005	98	1896755	20.0	16.0	
3 Chlorodifluoromethane	51	4.254	4.249	0.005	99	1261321	20.0	16.8	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.527	4.516	0.011	92	2406197	20.0	18.0	
5 Chloromethane	50	4.714	4.704	0.010	98	792047	20.0	17.7	
6 Butane	43	4.950	4.939	0.011	95	1583944	20.0	16.4	
7 Vinyl chloride	62	5.008	4.998	0.010	98	1139578	20.0	15.5	
8 Butadiene	54	5.099	5.084	0.015	95	882216	20.0	14.7	
10 Bromomethane	94	5.891	5.875	0.016	98	912120	20.0	17.5	
11 Chloroethane	64	6.148	6.132	0.016	98	572211	20.0	18.0	
12 2-Methylbutane	43	6.212	6.196	0.016	91	1201329	20.0	16.9	
13 Vinyl bromide	106	6.565	6.555	0.010	98	887491	20.0	17.5	
14 Trichlorofluoromethane	101	6.662	6.651	0.011	99	2292437	20.0	17.7	
16 Pentane	43	6.795	6.785	0.010	97	1880338	20.0	17.6	
17 Ethanol	45	7.218	7.223	-0.005	100	966970	40.0	39.6	
18 Ethyl ether	59	7.320	7.320	0.000	93	785231	20.0	17.6	
19 Acrolein	56	7.731	7.726	0.005	50	455608	20.0	20.1	
20 1,1,2-Trichloro-1,2,2-trif	101	7.742	7.737	0.005	93	2118195	20.0	17.7	
21 1,1-Dichloroethene	96	7.806	7.801	0.005	98	1049640	20.0	16.7	
22 Acetone	43	8.042	8.042	0.000	97	1657237	20.0	18.5	
23 Carbon disulfide	76	8.229	8.224	0.005	100	2902589	20.0	18.1	
24 Isopropyl alcohol	45	8.304	8.309	-0.005	100	1654425	20.0	18.1	
25 3-Chloro-1-propene	41	8.609	8.604	0.005	99	1412210	20.0	19.8	
26 Acetonitrile	41	8.753	8.748	0.005	97	839791	20.0	18.7	
27 Methylene Chloride	49	8.914	8.909	0.005	94	1303859	20.0	17.8	
28 2-Methyl-2-propanol	59	9.096	9.101	-0.005	96	2140788	20.0	18.4	
29 Methyl tert-butyl ether	73	9.304	9.304	0.000	97	3039410	20.0	17.6	
31 trans-1,2-Dichloroethene	61	9.363	9.353	0.010	97	1637148	20.0	17.5	
32 Acrylonitrile	53	9.524	9.524	0.000	93	865222	20.0	18.0	
S 30 1,2-Dichloroethene, Total	61				0		40.0	34.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57	9.738	9.732	0.006	93	1779001	20.0	17.5	
34 1,1-Dichloroethane	63	10.262	10.257	0.005	100	2005852	20.0	16.9	
35 Vinyl acetate	43	10.315	10.316	-0.001	99	2832498	20.0	18.9	
37 cis-1,2-Dichloroethene	96	11.385	11.380	0.005	95	1130173	20.0	16.7	
38 2-Butanone (MEK)	72	11.417	11.418	-0.001	98	633962	20.0	17.5	
39 Ethyl acetate	88	11.439	11.439	0.000	98	121511	20.0	19.2	
* 40 Chlorobromomethane	128	11.845	11.840	0.005	80	381015	10.0	10.0	
41 Tetrahydrofuran	42	11.840	11.846	-0.006	90	1280252	20.0	18.5	
42 Chloroform	83	11.958	11.953	0.005	98	2210969	20.0	17.6	
43 Cyclohexane	84	12.209	12.204	0.005	98	1541350	20.0	17.8	
44 1,1,1-Trichloroethane	97	12.236	12.225	0.011	97	2225944	20.0	17.9	
45 Carbon tetrachloride	117	12.477	12.471	0.006	98	2113644	20.0	17.4	
46 Isooctane	57	12.862	12.857	0.005	97	5434555	20.0	17.5	
47 Benzene	78	12.921	12.916	0.005	99	3346696	20.0	17.5	
48 1,2-Dichloroethane	62	13.092	13.087	0.005	96	1536916	20.0	17.5	
49 n-Heptane	43	13.215	13.204	0.011	91	2111517	20.0	17.3	
* 50 1,4-Difluorobenzene	114	13.680	13.675	0.005	97	1714245	10.0	10.0	
52 n-Butanol	56	14.001	14.002	-0.001	90	709309	20.0	17.7	
A 51 GRO	1	14.092	(6.186-21.993)		0	457792992	20.0	0	
53 Trichloroethene	95	14.119	14.114	0.005	93	1491576	20.0	17.0	
54 1,2-Dichloropropane	63	14.633	14.627	0.006	88	1370968	20.0	17.7	
55 Methyl methacrylate	69	14.745	14.745	0.000	95	1343302	20.0	18.6	
56 1,4-Dioxane	88	14.825	14.820	0.005	97	685536	20.0	17.7	
57 Dibromomethane	174	14.873	14.868	0.005	95	1177720	20.0	17.7	
58 Dichlorobromomethane	83	15.125	15.125	0.000	99	2412487	20.0	18.4	
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	777800891	20.0	0	
60 cis-1,3-Dichloropropene	75	15.975	15.976	-0.001	95	2025916	20.0	18.3	
61 4-Methyl-2-pentanone (MIBK	43	16.227	16.227	0.000	96	2742811	20.0	17.8	
65 Toluene	92	16.526	16.521	0.005	92	2400499	20.0	18.1	
64 n-Octane	43	16.542	16.537	0.005	89	2974926	20.0	17.9	
66 trans-1,3-Dichloropropene	75	17.083	17.078	0.005	99	1884822	20.0	18.3	
67 1,1,2-Trichloroethane	83	17.441	17.436	0.005	98	1260290	20.0	17.3	
68 Tetrachloroethene	166	17.543	17.538	0.005	93	1720679	20.0	17.1	
69 2-Hexanone	43	17.848	17.843	0.005	96	2613823	20.0	18.1	
71 Chlorodibromomethane	129	18.174	18.169	0.005	97	2254965	20.0	20.1	
72 Ethylene Dibromide	107	18.442	18.436	0.006	97	2062074	20.0	18.4	
* 74 Chlorobenzene-d5	117	19.292	19.287	0.005	91	1547124	10.0	10.0	
75 Chlorobenzene	112	19.351	19.346	0.005	89	2913871	20.0	17.8	
76 Ethylbenzene	91	19.485	19.480	0.005	99	5097841	20.0	18.1	
77 n-Nonane	57	19.576	19.571	0.005	88	2798502	20.0	17.9	
S 73 Xylenes, Total	106				0		60.0	54.8	
78 m-Xylene & p-Xylene	106	19.726	19.720	0.006	0	3907847	40.0	36.6	
79 o-Xylene	106	20.528	20.523	0.005	98	1911091	20.0	18.2	
80 Styrene	104	20.576	20.571	0.005	97	3139543	20.0	19.1	
81 Bromoform	173	20.983	20.978	0.005	93	2135262	20.0	23.3	
82 Isopropylbenzene	105	21.159	21.154	0.005	98	5444065	20.0	18.3	
84 1,1,2,2-Tetrachloroethane	83	21.801	21.775	0.026	99	3055045	20.0	17.9	
85 N-Propylbenzene	91	21.865	21.839	0.026	98	6694487	20.0	18.2	
86 1,2,3-Trichloropropane	75	21.903	21.876	0.027	95	2493671	20.0	17.9	
87 n-Decane	57	22.021	21.983	0.038	93	3446255	20.0	17.8	
90 1,3,5-Trimethylbenzene	105	22.053	22.015	0.038	83	5690610	20.0	18.9	
89 2-Chlorotoluene	91	22.074	22.037	0.037	97	5003458	20.0	18.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
88 4-Ethyltoluene	105	22.160	22.117	0.043	91	4629902	20.0	18.5	
91 Alpha Methyl Styrene	118	22.529	22.470	0.059	80	2400839	20.0	19.4	
92 tert-Butylbenzene	119	22.652	22.588	0.064	90	4267071	20.0	18.3	
93 1,2,4-Trimethylbenzene	105	22.748	22.679	0.069	99	4623267	20.0	18.4	
94 sec-Butylbenzene	105	22.983	22.903	0.080	97	6666343	20.0	18.3	
95 4-Isopropyltoluene	119	23.181	23.096	0.085	93	5541704	20.0	18.7	
96 1,3-Dichlorobenzene	146	23.230	23.139	0.091	97	2976651	20.0	18.9	
97 1,4-Dichlorobenzene	146	23.369	23.273	0.096	90	2872211	20.0	18.9	
98 Benzyl chloride	91	23.577	23.470	0.107	97	3849046	20.0	19.7	
100 n-Butylbenzene	91	23.791	23.674	0.117	96	5978147	20.0	19.5	
99 Undecane	57	23.797	23.679	0.118	86	3947565	20.0	18.4	
101 1,2-Dichlorobenzene	146	23.941	23.813	0.128	92	2729888	20.0	17.8	
102 Dodecane	57	25.471	25.284	0.187	96	3184449	20.0	16.7	
103 1,2,4-Trichlorobenzene	180	26.546	26.365	0.181	93	1820508	20.0	18.3	
104 Hexachlorobutadiene	225	26.723	26.547	0.176	95	2045091	20.0	17.4	
105 Naphthalene	128	27.044	26.868	0.176	97	3934003	20.0	16.4	
106 1,2,3-Trichlorobenzene	180	27.531	27.354	0.177	93	1749300	20.0	16.9	

Reagents:

ATTO15CAL6w_00158	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

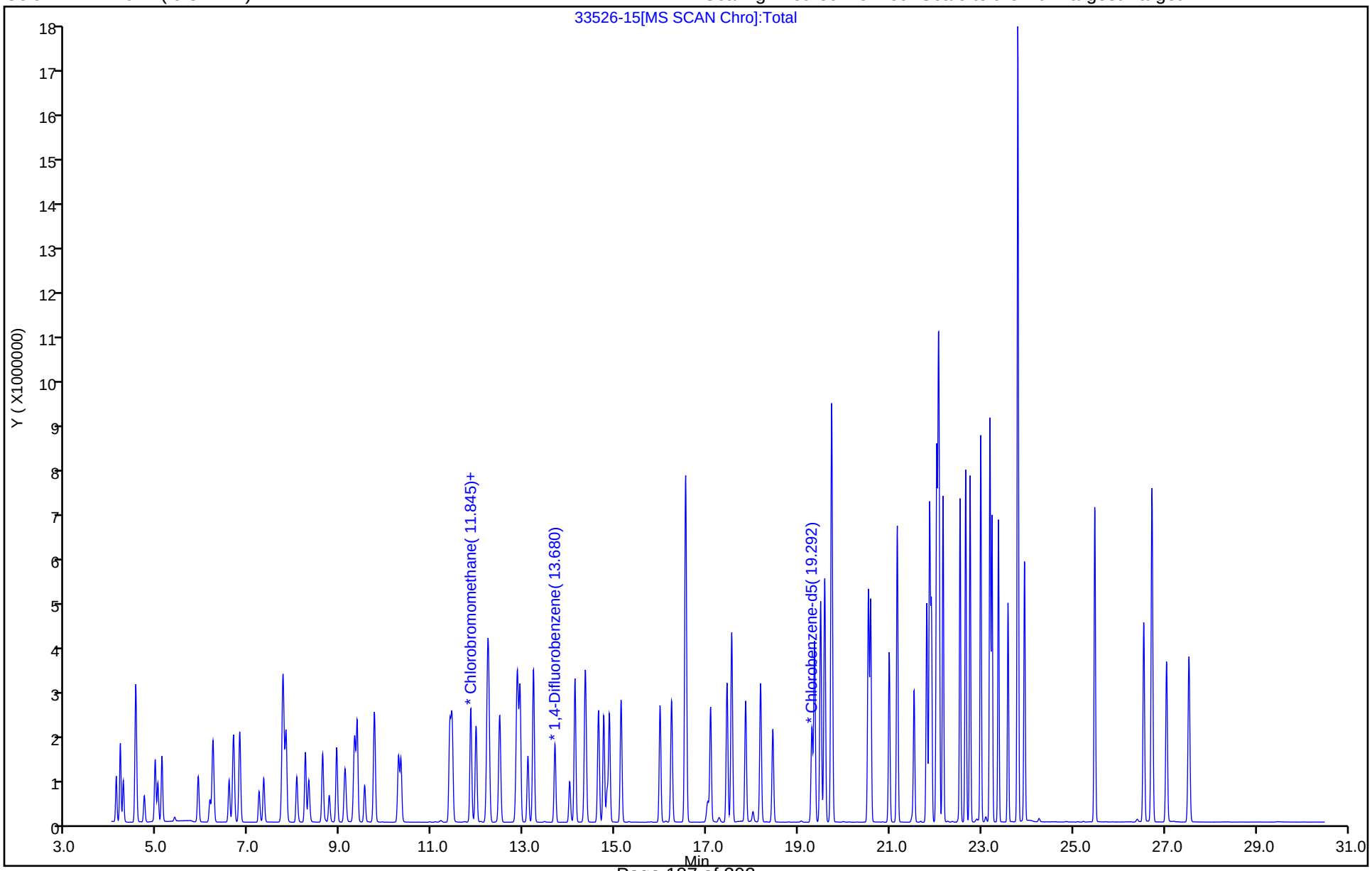
Report Date: 10-Dec-2018 11:54:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-15.D

Injection Date:	08-Dec-2018 13:19:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ic			Worklist Smp#:	15
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Dec-2018 14:05:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-016
Misc. Info.: IC 20
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:54:40 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 11:36:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.099	4.094	0.005	98	498410	15.0	15.0	
2 Dichlorodifluoromethane	85	4.185	4.185	0.000	99	1686407	15.0	15.2	
3 Chlorodifluoromethane	51	4.254	4.249	0.005	98	1027212	15.0	14.6	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.522	4.516	0.006	93	1817223	15.0	14.4	
5 Chloromethane	50	4.714	4.704	0.010	99	601412	15.0	14.3	
6 Butane	43	4.944	4.939	0.005	97	1296141	15.0	14.3	
7 Vinyl chloride	62	4.998	4.998	0.000	98	924258	15.0	13.4	
8 Butadiene	54	5.089	5.084	0.005	95	710402	15.0	12.6	
10 Bromomethane	94	5.881	5.875	0.006	99	706364	15.0	14.4	
11 Chloroethane	64	6.143	6.132	0.011	99	444345	15.0	14.9	
12 2-Methylbutane	43	6.207	6.196	0.011	91	912602	15.0	13.7	
13 Vinyl bromide	106	6.560	6.555	0.005	98	692119	15.0	14.5	
14 Trichlorofluoromethane	101	6.656	6.651	0.005	99	1773891	15.0	14.5	
16 Pentane	43	6.790	6.785	0.005	97	1426968	15.0	14.2	
17 Ethanol	45	7.223	7.223	0.000	100	743716	30.0	32.4	
18 Ethyl ether	59	7.320	7.320	0.000	93	602181	15.0	14.3	
19 Acrolein	56	7.732	7.726	0.006	98	346495	15.0	16.3	
20 1,1,2-Trichloro-1,2,2-trif	101	7.737	7.737	0.000	94	1633120	15.0	14.6	
21 1,1-Dichloroethene	96	7.801	7.801	0.000	98	816510	15.0	13.8	
22 Acetone	43	8.042	8.042	0.000	97	1274203	15.0	15.2	
23 Carbon disulfide	76	8.224	8.224	0.000	100	2247142	15.0	14.9	
24 Isopropyl alcohol	45	8.304	8.309	-0.005	100	1291254	15.0	15.0	
25 3-Chloro-1-propene	41	8.604	8.604	0.000	99	1077478	15.0	16.0	
26 Acetonitrile	41	8.748	8.748	0.000	97	638416	15.0	15.1	
27 Methylene Chloride	49	8.908	8.909	-0.001	94	998221	15.0	14.5	
28 2-Methyl-2-propanol	59	9.096	9.101	-0.005	96	1677214	15.0	15.3	
29 Methyl tert-butyl ether	73	9.304	9.304	0.000	98	2351262	15.0	14.5	
31 trans-1,2-Dichloroethene	61	9.358	9.353	0.005	97	1260259	15.0	14.4	
32 Acrylonitrile	53	9.518	9.524	-0.006	93	662143	15.0	14.7	
S 30 1,2-Dichloroethene, Total	61				0		30.0	28.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57	9.732	9.732	0.000	93	1369708	15.0	14.3	
34 1,1-Dichloroethane	63	10.262	10.257	0.005	99	1555607	15.0	14.0	
35 Vinyl acetate	43	10.315	10.316	-0.001	99	2157876	15.0	15.3	
37 cis-1,2-Dichloroethene	96	11.380	11.380	0.000	97	875949	15.0	13.8	
38 2-Butanone (MEK)	72	11.417	11.418	-0.001	99	489805	15.0	14.4	
39 Ethyl acetate	88	11.434	11.439	-0.005	98	94217	15.0	15.8	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	94	358240	10.0	10.0	
41 Tetrahydrofuran	42	11.840	11.846	-0.006	91	982752	15.0	15.2	
42 Chloroform	83	11.952	11.953	-0.001	98	1714459	15.0	14.6	
43 Cyclohexane	84	12.204	12.204	0.000	97	1187326	15.0	14.7	
44 1,1,1-Trichloroethane	97	12.231	12.225	0.006	98	1719822	15.0	14.8	
45 Carbon tetrachloride	117	12.471	12.471	0.000	97	1647134	15.0	14.5	
46 Isooctane	57	12.857	12.857	0.000	98	4168780	15.0	14.4	
47 Benzene	78	12.915	12.916	-0.001	99	2599461	15.0	14.5	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	96	1195873	15.0	14.5	
49 n-Heptane	43	13.210	13.204	0.006	91	1614451	15.0	14.2	
* 50 1,4-Difluorobenzene	114	13.675	13.675	0.000	97	1601654	10.0	10.0	
52 n-Butanol	56	14.001	14.002	-0.001	90	564373	15.0	15.0	
A 51 GRO	1	14.092	(6.186-21.993)		0	373497682	15.0	0	
53 Trichloroethene	95	14.114	14.114	0.000	93	1153483	15.0	14.1	
54 1,2-Dichloropropane	63	14.627	14.627	0.000	88	1052839	15.0	14.5	
55 Methyl methacrylate	69	14.745	14.745	0.000	96	1034855	15.0	15.3	
56 1,4-Dioxane	88	14.820	14.820	0.000	98	545105	15.0	15.1	
57 Dibromomethane	174	14.868	14.868	0.000	94	907539	15.0	14.6	
58 Dichlorobromomethane	83	15.119	15.125	-0.006	99	1864326	15.0	15.2	
A 59 TVOC as Toluene	92	15.724	(4.084-27.364)		0	613379784	15.0	0	
60 cis-1,3-Dichloropropene	75	15.975	15.976	-0.001	95	1558288	15.0	15.0	
61 4-Methyl-2-pentanone (MIBK	43	16.227	16.227	0.000	96	2117521	15.0	14.7	
65 Toluene	92	16.521	16.521	0.000	92	1845957	15.0	14.8	
64 n-Octane	43	16.537	16.537	0.000	89	2265810	15.0	14.6	
66 trans-1,3-Dichloropropene	75	17.077	17.078	-0.001	99	1447167	15.0	15.0	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	98	973256	15.0	14.2	
68 Tetrachloroethene	166	17.538	17.538	0.000	93	1325692	15.0	14.0	
69 2-Hexanone	43	17.842	17.843	-0.001	96	2010457	15.0	14.8	
71 Chlorodibromomethane	129	18.169	18.169	0.000	96	1731581	15.0	16.4	
72 Ethylene Dibromide	107	18.436	18.436	0.000	98	1591072	15.0	15.0	
* 74 Chlorobenzene-d5	117	19.292	19.287	0.005	91	1456456	10.0	10.0	
75 Chlorobenzene	112	19.346	19.346	0.000	90	2269839	15.0	14.7	
76 Ethylbenzene	91	19.479	19.480	-0.001	99	3957881	15.0	15.0	
77 n-Nonane	57	19.570	19.571	-0.001	87	2166959	15.0	14.7	
S 73 Xylenes, Total	106				0		45.0	45.1	
78 m-Xylene & p-Xylene	106	19.720	19.720	0.000	0	3025780	30.0	30.1	
79 o-Xylene	106	20.523	20.523	0.000	98	1481006	15.0	15.0	
80 Styrene	104	20.571	20.571	0.000	98	2409990	15.0	15.6	
81 Bromoform	173	20.977	20.978	-0.001	93	1629732	15.0	18.9	
82 Isopropylbenzene	105	21.154	21.154	0.000	98	4215617	15.0	15.0	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.775	0.005	99	2417730	15.0	15.0	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	5245858	15.0	15.1	
86 1,2,3-Trichloropropane	75	21.871	21.876	-0.005	96	1991841	15.0	15.2	
87 n-Decane	57	21.983	21.983	0.000	93	2746412	15.0	15.0	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	85	4355375	15.0	15.3	
89 2-Chlorotoluene	91	22.037	22.037	0.000	97	3881543	15.0	15.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
88 4-Ethyltoluene	105	22.117	22.117	0.000	92	3592003	15.0	15.2	
91 Alpha Methyl Styrene	118	22.470	22.470	0.000	83	1847545	15.0	15.8	
92 tert-Butylbenzene	119	22.588	22.588	0.000	90	3284491	15.0	15.0	
93 1,2,4-Trimethylbenzene	105	22.684	22.679	0.005	99	3564024	15.0	15.1	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	5151259	15.0	15.0	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	95	4242141	15.0	15.2	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	98	2269624	15.0	15.3	
97 1,4-Dichlorobenzene	146	23.272	23.273	-0.001	90	2187051	15.0	15.3	
98 Benzyl chloride	91	23.470	23.470	0.000	97	3097428	15.0	16.8	
100 n-Butylbenzene	91	23.674	23.674	0.000	98	4548143	15.0	15.7	
99 Undecane	57	23.679	23.679	0.000	93	3040114	15.0	15.0	
101 1,2-Dichlorobenzene	146	23.813	23.813	0.000	91	2183310	15.0	15.1	
102 Dodecane	57	25.284	25.284	0.000	97	2592881	15.0	14.4	
103 1,2,4-Trichlorobenzene	180	26.365	26.365	0.000	93	1429645	15.0	15.3	
104 Hexachlorobutadiene	225	26.546	26.547	-0.001	95	1610267	15.0	14.5	
105 Naphthalene	128	26.867	26.868	-0.001	97	3109823	15.0	13.8	
106 1,2,3-Trichlorobenzene	180	27.354	27.354	0.000	94	1375052	15.0	14.1	

Reagents:

ATTO15CAL6w_00158	Amount Added: 150.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

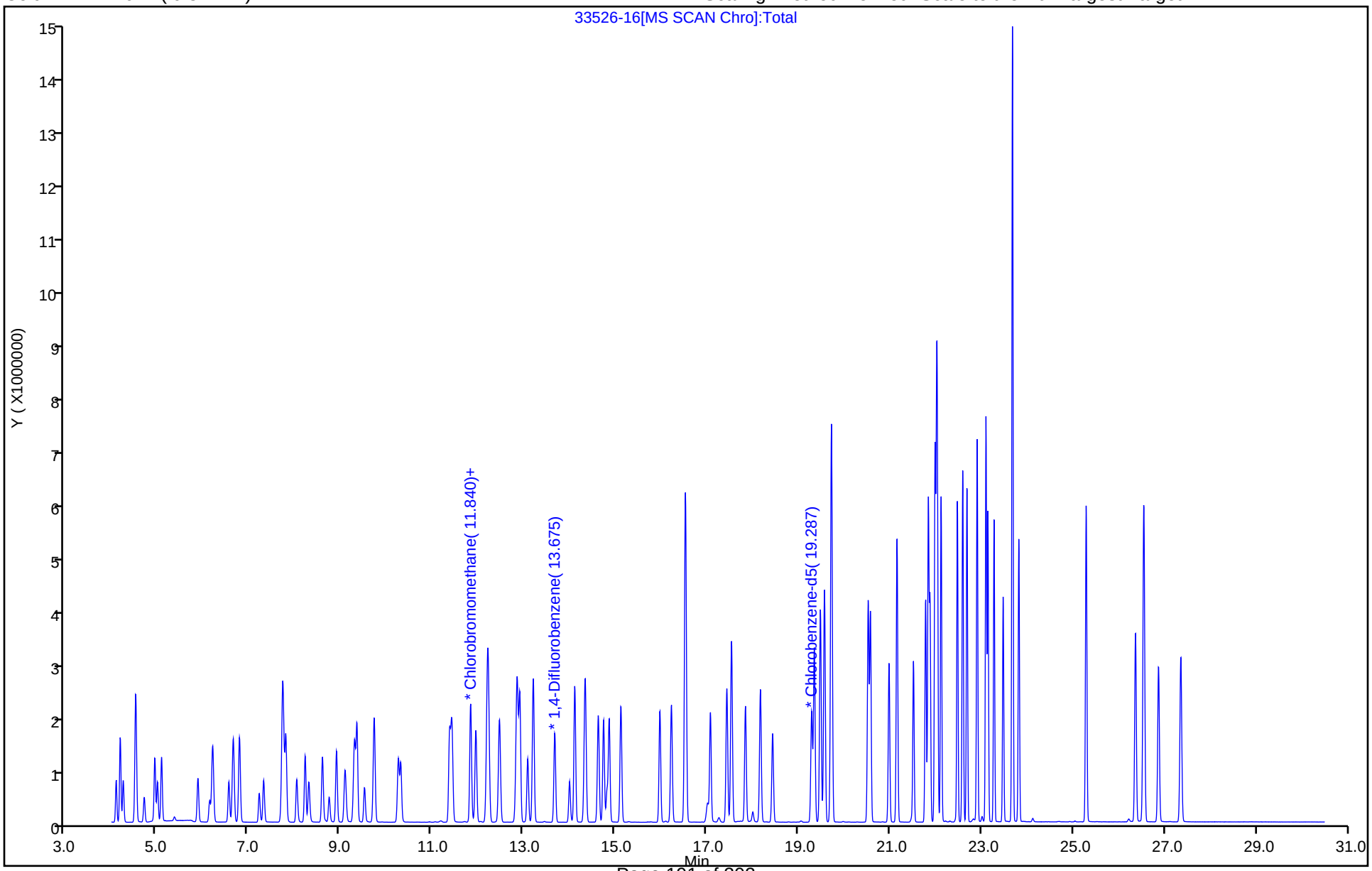
Report Date: 10-Dec-2018 11:54:41 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Injection Date:	08-Dec-2018 14:05:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ic			Worklist Smp#:	16
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Matrix: Air Level: Low Lab File ID: 33526-18.D

Lab ID: ICV 200-137920/18 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Acetone	10.0	9.66	97	70-130	
Benzene	10.0	9.17	92	70-130	
Bromoform	10.0	11.5	116	70-130	
Bromomethane	10.0	9.26	93	70-130	
Butadiene	10.0	7.88	79	70-130	
2-Butanone (MEK)	10.0	9.25	92	70-130	
Carbon disulfide	10.0	9.66	97	70-130	
Carbon tetrachloride	10.0	9.12	91	70-130	
Chlorobenzene	10.0	9.48	95	70-130	
Chlorodibromomethane	10.0	10.2	102	70-130	
Chloroethane	10.0	9.51	95	70-130	
Chloroform	10.0	9.11	91	70-130	
Chloromethane	10.0	8.82	88	70-130	
3-Chloro-1-propene	10.0	8.49	85	70-130	
2-Chlorotoluene	10.0	9.64	96	70-130	
cis-1,2-Dichloroethene	10.0	8.54	85	70-130	
cis-1,3-Dichloropropene	10.0	9.18	92	70-130	
Cyclohexane	10.0	9.44	94	70-130	
1,3-Dichlorobenzene	10.0	9.53	95	70-130	
1,4-Dichlorobenzene	10.0	9.60	96	70-130	
1,2-Dichlorobenzene	10.0	9.46	95	70-130	
Dichlorobromomethane	10.0	9.89	99	70-130	
Dichlorodifluoromethane	10.0	9.66	97	70-130	
1,1-Dichloroethane	10.0	8.84	88	70-130	
1,2-Dichloroethane	10.0	9.33	93	70-130	
1,1-Dichloroethene	10.0	8.03	80	70-130	
1,2-Dichloropropane	10.0	9.35	94	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	9.80	98	70-130	
1,4-Dioxane	10.0	10.4	104	70-130	
Ethylbenzene	10.0	9.57	96	70-130	
Ethylene Dibromide	10.0	9.84	98	70-130	
4-Ethyltoluene	10.0	9.60	96	70-130	
Hexachlorobutadiene	10.0	8.64	86	70-130	
Hexane	10.0	9.28	93	70-130	
Isooctane	10.0	9.27	93	70-130	
Isopropyl alcohol	10.0	9.54	95	70-130	
Methylene Chloride	10.0	8.61	86	70-130	
Methyl methacrylate	10.0	10.1	101	70-130	
4-Methyl-2-pentanone (MIBK)	10.0	9.50	95	70-130	
2-Methyl-2-propanol	10.0	10.3	103	70-130	
Methyl tert-butyl ether	10.0	9.21	92	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Matrix: Air Level: Low Lab File ID: 33526-18.D

Lab ID: ICV 200-137920/18 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	19.3	97	70-130	
Naphthalene	10.0	8.82	88	70-130	
n-Heptane	10.0	9.11	91	70-130	
o-Xylene	10.0	9.80	98	70-130	
Styrene	10.0	9.75	98	70-130	
tert-Butylbenzene	10.0	9.45	95	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.88	99	70-130	
Tetrachloroethene	10.0	8.99	90	70-130	
Tetrahydrofuran	10.0	10.3	103	70-130	
Toluene	10.0	9.54	95	70-130	
trans-1,2-Dichloroethene	10.0	9.36	94	70-130	
trans-1,3-Dichloropropene	10.0	10.0	100	70-130	
1,2,4-Trichlorobenzene	10.0	9.11	91	70-130	
1,1,1-Trichloroethane	10.0	9.29	93	70-130	
1,1,2-Trichloroethane	10.0	9.39	94	70-130	
Trichloroethene	10.0	8.97	90	70-130	
Trichlorofluoromethane	10.0	9.47	95	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.37	84	70-130	
1,3,5-Trimethylbenzene	10.0	9.79	98	70-130	
1,2,4-Trimethylbenzene	10.0	9.54	95	70-130	
Vinyl bromide	10.0	9.70	97	70-130	
Vinyl chloride	10.0	8.35	84	70-130	
Xylene (total)	30.0	29.1	97	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-18.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 08-Dec-2018 15:50:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 0033587-018
Misc. Info.: LCS
Operator ID: GGG Instrument ID: CHX.i
Sublist:

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:50:42 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: guazzonig Date: 10-Dec-2018 10:35:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.094	4.094	0.000	98	307089	10.0	9.17	
2 Dichlorodifluoromethane	85	4.185	4.185	0.000	98	1085560	10.0	9.66	
3 Chlorodifluoromethane	51	4.249	4.249	0.000	98	663902	10.0	9.33	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.522	4.516	0.006	94	1247181	10.0	9.80	
5 Chloromethane	50	4.709	4.704	0.005	98	375762	10.0	8.82	
6 Butane	43	4.934	4.939	-0.005	97	842208	10.0	9.19	
7 Vinyl chloride	62	4.993	4.998	-0.005	98	581642	10.0	8.35	
8 Butadiene	54	5.078	5.084	-0.006	94	449531	10.0	7.88	
10 Bromomethane	94	5.875	5.875	0.000	98	457895	10.0	9.26	
9 BFB									
11 Chloroethane	64	6.132	6.132	0.000	99	286852	10.0	9.51	
12 2-Methylbutane	43	6.196	6.196	0.000	92	608237	10.0	9.04	
13 Vinyl bromide	106	6.555	6.555	0.000	98	467114	10.0	9.70	
14 Trichlorofluoromethane	101	6.651	6.651	0.000	99	1167572	10.0	9.47	
16 Pentane	43	6.785	6.785	0.000	97	943830	10.0	9.32	
17 Ethanol	45	7.229	7.229	0.000	100	345220	15.0	14.9	
18 Ethyl ether	59	7.320	7.320	0.000	94	428571	10.0	10.1	
19 Acrolein	56	7.732	7.726	0.006	98	246958	10.0	11.5	
20 1,1,2-Trichloro-1,2,2-trif	101	7.737	7.737	0.000	93	948970	10.0	8.37	
21 1,1-Dichloroethene	96	7.801	7.801	0.000	98	480853	10.0	8.03	
22 Acetone	43	8.047	8.042	0.005	97	820293	10.0	9.66	
23 Carbon disulfide	76	8.224	8.224	0.000	100	1472441	10.0	9.66	
24 Isopropyl alcohol	45	8.315	8.325	-0.010	100	827455	10.0	9.54	
25 3-Chloro-1-propene	41	8.604	8.604	0.000	99	575812	10.0	8.49	
26 Acetonitrile	41	8.754	8.748	0.006	98	451275	10.0	10.6	
27 Methylene Chloride	49	8.909	8.909	0.000	93	600389	10.0	8.61	
28 2-Methyl-2-propanol	59	9.107	9.101	0.006	96	1141639	10.0	10.3	
29 Methyl tert-butyl ether	73	9.310	9.304	0.006	98	1508105	10.0	9.21	
31 trans-1,2-Dichloroethene	61	9.358	9.353	0.005	97	830099	10.0	9.36	
32 Acrylonitrile	53	9.524	9.524	0.000	93	450225	10.0	9.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
S 30 1,2-Dichloroethene, Total	61				0		20.0	17.9	
33 Hexane	57	9.733	9.732	0.000	93	897885	10.0	9.28	
34 1,1-Dichloroethane	63	10.262	10.257	0.005	99	995226	10.0	8.84	
35 Vinyl acetate	43	10.316	10.316	0.000	99	1427026	10.0	10.0	
37 cis-1,2-Dichloroethene	96	11.380	11.380	0.000	95	548286	10.0	8.54	
38 2-Butanone (MEK)	72	11.423	11.418	0.005	99	318725	10.0	9.25	
39 Ethyl acetate	88	11.444	11.439	0.005	99	58751	10.0	9.77	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	97	361861	10.0	10.0	
41 Tetrahydrofuran	42	11.846	11.846	0.000	90	670905	10.0	10.3	
42 Chloroform	83	11.953	11.953	0.000	99	1083948	10.0	9.11	
43 Cyclohexane	84	12.204	12.204	0.000	98	767975	10.0	9.44	
44 1,1,1-Trichloroethane	97	12.231	12.225	0.006	97	1086593	10.0	9.29	
45 Carbon tetrachloride	117	12.472	12.471	0.001	97	1042126	10.0	9.12	
46 Isooctane	57	12.857	12.857	0.000	98	2696123	10.0	9.27	
47 Benzene	78	12.916	12.916	0.000	99	1647964	10.0	9.17	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	97	770660	10.0	9.33	
49 n-Heptane	43	13.210	13.204	0.006	92	1043567	10.0	9.11	
* 50 1,4-Difluorobenzene	114	13.681	13.681	0.000	97	1609352	10.0	10.0	
52 n-Butanol	56	14.007	14.002	0.005	90	425451	10.0	11.3	
A 51 GRO	1	14.092	(6.186-21.993)		0	236147541	10.0	0	
53 Trichloroethene	95	14.114	14.114	0.000	93	739630	10.0	8.97	
54 1,2-Dichloropropane	63	14.627	14.627	0.000	87	681625	10.0	9.35	
55 Methyl methacrylate	69	14.745	14.745	0.000	96	684355	10.0	10.1	
56 1,4-Dioxane	88	14.820	14.820	0.000	98	379209	10.0	10.4	
57 Dibromomethane	174	14.868	14.868	0.000	94	584630	10.0	9.34	
58 Dichlorobromomethane	83	15.125	15.125	0.000	99	1216724	10.0	9.89	
A 59 TVOC as Toluene	92	15.724	(4.084-27.370)		0	387618616	10.0	0	
60 cis-1,3-Dichloropropene	75	15.976	15.976	0.000	95	956033	10.0	9.18	
61 4-Methyl-2-pentanone (MIBK	43	16.227	16.227	0.000	96	1372830	10.0	9.50	
65 Toluene	92	16.527	16.521	0.006	92	1197599	10.0	9.54	
64 n-Octane	43	16.537	16.537	0.000	89	1467113	10.0	9.42	
66 trans-1,3-Dichloropropene	75	17.078	17.078	0.000	99	968074	10.0	10.0	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	98	649012	10.0	9.39	
68 Tetrachloroethene	166	17.538	17.538	0.000	92	854454	10.0	8.99	
69 2-Hexanone	43	17.843	17.843	0.000	96	1314928	10.0	9.62	
71 Chlorodibromomethane	129	18.169	18.169	0.000	96	1087579	10.0	10.2	
72 Ethylene Dibromide	107	18.436	18.436	0.000	98	1047566	10.0	9.84	
* 74 Chlorobenzene-d5	117	19.287	19.287	0.000	91	1465444	10.0	10.0	
75 Chlorobenzene	112	19.351	19.346	0.005	89	1468909	10.0	9.48	
77 n-Nonane	57	19.571	19.571	0.000	88	1398462	10.0	9.45	
S 73 Xylenes, Total	106				0		30.0	29.1	
78 m-Xylene & p-Xylene	106	19.720	19.720	0.000	0	1949495	20.0	19.3	
76 Ethylbenzene	91	19.480	19.720	-0.240	99	2547016	10.0	9.57	
79 o-Xylene	106	20.523	20.523	0.000	98	975293	10.0	9.80	
80 Styrene	104	20.576	20.571	0.005	98	1519400	10.0	9.75	
81 Bromoform	173	20.983	20.978	0.005	93	1003293	10.0	11.5	
82 Isopropylbenzene	105	21.154	21.154	0.000	98	2672870	10.0	9.48	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.775	0.005	99	1598344	10.0	9.88	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	3362044	10.0	9.63	
86 1,2,3-Trichloropropane	75	21.876	21.876	0.000	96	1251805	10.0	9.49	
87 n-Decane	57	21.983	21.983	0.000	93	1732594	10.0	9.43	
90 1,3,5-Trimethylbenzene	105	22.015	22.021	-0.006	85	2798985	10.0	9.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
88 4-Ethyltoluene	105	22.117	22.021	0.096	92	2277332	10.0	9.60	
89 2-Chlorotoluene	91	22.037	22.037	0.000	97	2461633	10.0	9.64	
91 Alpha Methyl Styrene	118	22.476	22.481	-0.005	82	1133509	10.0	9.65	
92 tert-Butylbenzene	119	22.588	22.588	0.000	91	2088255	10.0	9.45	
93 1,2,4-Trimethylbenzene	105	22.684	22.684	0.000	99	2273280	10.0	9.54	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	3213056	10.0	9.31	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	95	2620935	10.0	9.34	
96 1,3-Dichlorobenzene	146	23.139	23.144	-0.005	97	1420157	10.0	9.53	
97 1,4-Dichlorobenzene	146	23.273	23.273	0.000	90	1378297	10.0	9.60	
98 Benzyl chloride	91	23.471	23.470	0.001	97	1798866	10.0	9.72	
100 n-Butylbenzene	91	23.674	23.668	0.006	98	2732859	10.0	9.39	
99 Undecane	57	23.679	23.679	0.000	93	1911428	10.0	9.40	
101 1,2-Dichlorobenzene	146	23.813	23.813	0.000	91	1378108	10.0	9.46	
102 Dodecane	57	25.284	25.284	0.000	96	1715363	10.0	9.49	
103 1,2,4-Trichlorobenzene	180	26.365	26.375	-0.010	94	859103	10.0	9.11	
104 Hexachlorobutadiene	225	26.547	26.547	0.000	95	963723	10.0	8.64	
105 Naphthalene	128	26.868	26.868	0.000	97	1999681	10.0	8.82	
106 1,2,3-Trichlorobenzene	180	27.354	27.360	-0.006	92	824198	10.0	8.39	

Reagents:

ATTO15LCSW_00790	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

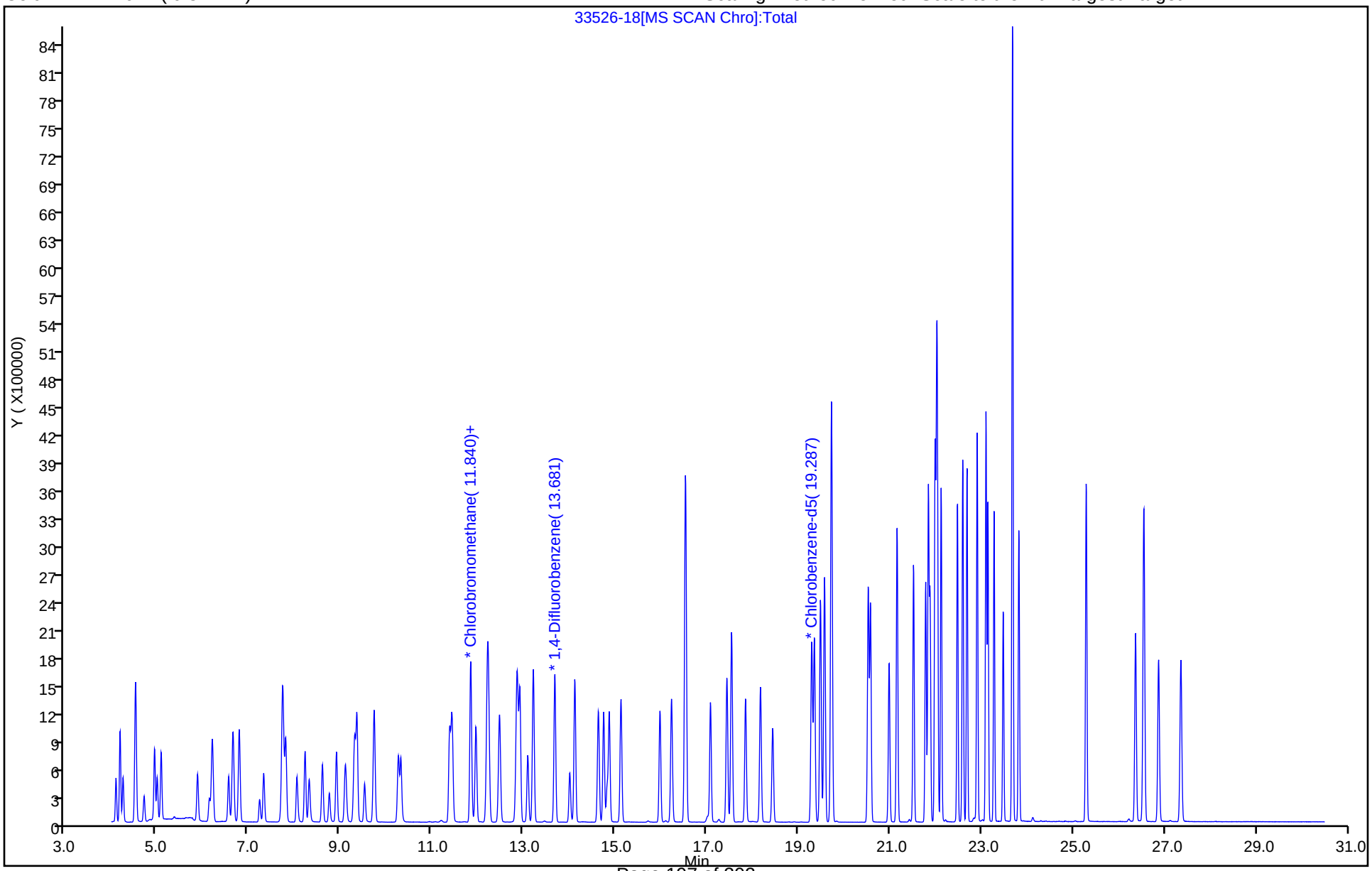
Report Date: 10-Dec-2018 11:50:51 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-18.D

Injection Date:	08-Dec-2018 15:50:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	icv			Worklist Smp#:	18
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Lab Sample ID: CCVIS 200-138095/2 Calibration Date: 12/12/2018 14:33

Instrument ID: CHX.i Calib Start Date: 12/07/2018 22:39

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/08/2018 14:05

Lab File ID: 33669-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.9250	1.014		11.0	10.0	9.6	30.0
Dichlorodifluoromethane	Ave	3.107	3.225		10.4	10.0	3.8	30.0
Freon 22	Ave	1.967	2.031		10.3	10.0	3.3	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	3.516	3.435		9.77	10.0	-2.3	30.0
Chloromethane	Ave	1.177	1.202		10.2	10.0	2.1	30.0
n-Butane	Ave	2.532	2.758		10.9	10.0	8.9	30.0
Vinyl chloride	Ave	1.925	1.977		10.3	10.0	2.7	30.0
Butadiene	Ave	1.576	1.516		9.62	10.0	-3.8	30.0
Bromomethane	Ave	1.366	1.283		9.39	10.0	-6.1	30.0
Chloroethane	Ave	0.8339	0.8263		9.91	10.0	-0.9	30.0
Isopentane	Ave	1.860	1.757		9.44	10.0	-5.5	30.0
Vinyl bromide	Ave	1.331	1.232		9.25	10.0	-7.5	30.0
Trichlorofluoromethane	Ave	3.408	3.128		9.18	10.0	-8.2	30.0
n-Pentane	Ave	2.799	2.695		9.63	10.0	-3.7	30.0
Ethanol	Ave	0.6402	0.7701		18.0	15.0	20.3	30.0
Ethyl ether	Ave	1.173	1.116		9.51	10.0	-4.9	30.0
Acrolein	Ave	0.5942	0.5897		9.92	10.0	-0.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	3.133	2.905		9.27	10.0	-7.3	30.0
1,1-Dichloroethene	Ave	1.654	1.440		8.70	10.0	-12.9	30.0
Acetone	Ave	2.347	2.432		10.4	10.0	3.6	30.0
Carbon disulfide	Ave	4.214	4.106		9.74	10.0	-2.6	30.0
Isopropyl alcohol	Ave	2.398	2.544		10.6	10.0	6.1	30.0
3-Chloro-1-propene	Ave	1.875	1.556		8.30	10.0	-17.0	30.0
Acetonitrile	Ave	1.182	1.241		10.5	10.0	5.1	30.0
Methylene Chloride	Ave	1.926	1.898		9.85	10.0	-1.5	30.0
2-Methyl-2-propanol	Ave	3.053	3.188		10.4	10.0	4.4	30.0
Methyl tert-butyl ether	Ave	4.523	4.153		9.18	10.0	-8.2	30.0
trans-1,2-Dichloroethene	Ave	2.451	2.286		9.33	10.0	-6.7	30.0
Acrylonitrile	Ave	1.259	1.241		9.86	10.0	-1.4	30.0
Hexane	Ave	2.675	2.547		9.52	10.0	-4.8	30.0
1,1-Dichloroethane	Ave	3.111	2.822		9.07	10.0	-9.3	30.0
Vinyl acetate	Ave	3.925	4.038		10.3	10.0	2.9	30.0
cis-1,2-Dichloroethene	Ave	1.775	1.554		8.75	10.0	-12.4	30.0
2-Butanone (MEK)	Ave	0.9524	0.8851		9.29	10.0	-7.1	30.0
Ethyl acetate	Ave	0.1662	0.1627		9.79	10.0	-2.1	30.0
Tetrahydrofuran	Ave	0.4031	0.4205		10.4	10.0	4.3	30.0
Chloroform	Ave	3.289	3.058		9.30	10.0	-7.0	30.0
Cyclohexane	Ave	0.5056	0.4710		9.31	10.0	-6.9	30.0
1,1,1-Trichloroethane	Ave	0.7271	0.6686		9.19	10.0	-8.0	30.0
Carbon tetrachloride	Ave	0.7103	0.6309		8.88	10.0	-11.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Lab Sample ID: CCVIS 200-138095/2 Calibration Date: 12/12/2018 14:33

Instrument ID: CHX.i Calib Start Date: 12/07/2018 22:39

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/08/2018 14:05

Lab File ID: 33669-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isooctane	Ave	1.807	1.705		9.43	10.0	-5.6	30.0
Benzene	Ave	1.117	1.038		9.30	10.0	-7.0	30.0
1,2-Dichloroethane	Ave	0.5133	0.4763		9.28	10.0	-7.2	30.0
n-Heptane	Ave	0.7116	0.6670		9.37	10.0	-6.3	30.0
n-Butanol	Ave	0.2342	0.2459		10.5	10.0	5.0	30.0
Trichloroethene	Ave	0.5121	0.4547		8.88	10.0	-11.2	30.0
1,2-Dichloropropane	Ave	0.4529	0.4294		9.48	10.0	-5.2	30.0
Methyl methacrylate	Ave	0.4220	0.4090		9.69	10.0	-3.1	30.0
1,4-Dioxane	Ave	0.2258	0.2400		10.6	10.0	6.3	30.0
Dibromomethane	Ave	0.3891	0.3548		9.12	10.0	-8.8	30.0
Dichlorobromomethane	Ave	0.7646	0.7238		9.46	10.0	-5.3	30.0
cis-1,3-Dichloropropene	Ave	0.6474	0.6111		9.44	10.0	-5.6	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8980	0.8891		9.90	10.0	-1.0	30.0
Toluene	Ave	0.8569	0.8035		9.37	10.0	-6.2	30.0
n-Octane	Ave	0.9676	0.9410		9.72	10.0	-2.7	30.0
trans-1,3-Dichloropropene	Ave	0.6007	0.5595		9.31	10.0	-6.9	30.0
1,1,2-Trichloroethane	Ave	0.4714	0.4359		9.24	10.0	-7.5	30.0
Tetrachloroethene	Ave	0.6487	0.5688		8.77	10.0	-12.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.9329	0.9135		9.79	10.0	-2.1	30.0
Chlorodibromomethane	Ave	0.7247	0.7140		9.85	10.0	-1.5	30.0
Ethylene Dibromide	Ave	0.7261	0.6958		9.58	10.0	-4.2	30.0
Chlorobenzene	Ave	1.057	0.9831		9.30	10.0	-7.0	30.0
Ethylbenzene	Ave	1.816	1.725		9.50	10.0	-5.0	30.0
n-Nonane	Ave	1.010	0.9676		9.58	10.0	-4.2	30.0
m-Xylene & p-Xylene	Ave	0.6892	0.6546		19.0	20.0	-5.0	30.0
o-Xylene	Ave	0.6790	0.6431		9.47	10.0	-5.3	30.0
Styrene	Ave	1.063	1.025		9.64	10.0	-3.6	30.0
Bromoform	Ave	0.5928	0.6027		10.2	10.0	1.7	30.0
Cumene	Ave	1.924	1.823		9.47	10.0	-5.3	30.0
1,1,2,2-Tetrachloroethane	Ave	1.104	1.084		9.82	10.0	-1.8	30.0
n-Propylbenzene	Ave	2.383	2.295		9.63	10.0	-3.7	30.0
1,2,3-Trichloropropane	Ave	0.9003	0.8731		9.70	10.0	-3.0	30.0
n-Decane	Ave	1.254	1.231		9.81	10.0	-1.9	30.0
1,3,5-Trimethylbenzene	Ave	1.951	1.873		9.60	10.0	-4.0	30.0
2-Chlorotoluene	Ave	1.742	1.680		9.64	10.0	-3.6	30.0
4-Ethyltoluene	Ave	1.619	1.542		9.52	10.0	-4.8	30.0
Alpha Methyl Styrene	Ave	0.8018	0.7862		9.80	10.0	-1.9	30.0
tert-Butylbenzene	Ave	1.508	1.413		9.37	10.0	-6.3	30.0
1,2,4-Trimethylbenzene	Ave	1.625	1.537		9.45	10.0	-5.5	30.0
sec-Butylbenzene	Ave	2.355	2.238		9.50	10.0	-5.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Lab Sample ID: CCVIS 200-138095/2 Calibration Date: 12/12/2018 14:33

Instrument ID: CHX.i Calib Start Date: 12/07/2018 22:39

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 12/08/2018 14:05

Lab File ID: 33669-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.916	1.806		9.43	10.0	-5.7	30.0
1,3-Dichlorobenzene	Ave	1.017	0.9496		9.33	10.0	-6.7	30.0
1,4-Dichlorobenzene	Ave	0.9802	0.9123		9.30	10.0	-6.9	30.0
Benzyl chloride	Ave	1.263	1.315		10.4	10.0	4.1	30.0
n-Butylbenzene	Ave	1.985	2.007		10.1	10.0	1.1	30.0
n-Undecane	Ave	1.388	1.411		10.2	10.0	1.7	30.0
1,2-Dichlorobenzene	Ave	0.9941	0.9330		9.38	10.0	-6.1	30.0
n-Dodecane	Ave	1.233	1.251		10.1	10.0	1.4	30.0
1,2,4-Trichlorobenzene	Ave	0.6433	0.5655		8.79	10.0	-12.1	30.0
Hexachlorobutadiene	Ave	0.7614	0.6613		8.68	10.0	-13.1	30.0
Naphthalene	Ave	1.548	1.524		9.85	10.0	-1.5	30.0
1,2,3-Trichlorobenzene	Ave	0.6704	0.5818		8.68	10.0	-13.2	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-02.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Dec-2018 14:33:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033669-002
Operator ID: GGG Instrument ID: CHX.i
Sublist: chrom-TO15_MasterMethod_X.m*sub1

Method: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Dec-2018 12:25:19 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0307

First Level Reviewer: bunmaa Date: 13-Dec-2018 12:25:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.088	4.088	0.000	99	298353	10.0	11.0	
2 Dichlorodifluoromethane	85	4.179	4.179	0.000	99	949342	10.0	10.4	
3 Chlorodifluoromethane	51	4.244	4.244	0.000	99	597730	10.0	10.3	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.516	4.516	0.000	94	1011058	10.0	9.77	
5 Chloromethane	50	4.704	4.704	0.000	98	353729	10.0	10.2	
6 Butane	43	4.928	4.928	0.000	97	811787	10.0	10.9	
7 Vinyl chloride	62	4.987	4.987	0.000	98	581880	10.0	10.3	
8 Butadiene	54	5.078	5.078	0.000	93	446141	10.0	9.62	
10 Bromomethane	94	5.870	5.870	0.000	99	377542	10.0	9.39	
9 BFB									
11 Chloroethane	64	6.127	6.127	0.000	99	243217	10.0	9.91	
12 2-Methylbutane	43	6.196	6.196	0.000	93	517287	10.0	9.44	
13 Vinyl bromide	106	6.549	6.549	0.000	98	362510	10.0	9.25	
14 Trichlorofluoromethane	101	6.646	6.646	0.000	99	920837	10.0	9.18	
16 Pentane	43	6.785	6.785	0.000	97	793236	10.0	9.63	
17 Ethanol	45	7.229	7.229	0.000	100	340178	15.0	18.0	
18 Ethyl ether	59	7.320	7.320	0.000	94	328471	10.0	9.51	
19 Acrolein	56	7.726	7.726	0.000	47	173592	10.0	9.92	
20 1,1,2-Trichloro-1,2,2-trif	101	7.732	7.732	0.000	92	855005	10.0	9.27	
21 1,1-Dichloroethene	96	7.801	7.801	0.000	97	423861	10.0	8.70	
22 Acetone	43	8.042	8.042	0.000	97	716024	10.0	10.4	
23 Carbon disulfide	76	8.218	8.218	0.000	100	1208795	10.0	9.74	
24 Isopropyl alcohol	45	8.315	8.315	0.000	100	748983	10.0	10.6	
25 3-Chloro-1-propene	41	8.598	8.598	0.000	99	458101	10.0	8.30	
26 Acetonitrile	41	8.753	8.753	0.000	97	365404	10.0	10.5	
27 Methylene Chloride	49	8.909	8.909	0.000	97	558572	10.0	9.85	
28 2-Methyl-2-propanol	59	9.107	9.107	0.000	96	938330	10.0	10.4	
29 Methyl tert-butyl ether	73	9.310	9.310	0.000	98	1222540	10.0	9.18	
31 trans-1,2-Dichloroethene	61	9.353	9.353	0.000	97	672907	10.0	9.33	
32 Acrylonitrile	53	9.518	9.518	0.000	93	365281	10.0	9.86	
S 30 1,2-Dichloroethene, Total	61				0		20.0	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Hexane	57	9.732	9.732	0.000	93	749852	10.0	9.52	
34 1,1-Dichloroethane	63	10.262	10.262	0.000	100	830580	10.0	9.07	
35 Vinyl acetate	43	10.316	10.316	0.000	99	1188570	10.0	10.3	
37 cis-1,2-Dichloroethene	96	11.375	11.375	0.000	96	457388	10.0	8.75	
38 2-Butanone (MEK)	72	11.418	11.418	0.000	98	260552	10.0	9.29	
39 Ethyl acetate	88	11.444	11.444	0.000	98	47893	10.0	9.79	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	97	294420	10.0	10.0	
41 Tetrahydrofuran	42	11.846	11.846	0.000	91	553450	10.0	10.4	
42 Chloroform	83	11.953	11.953	0.000	98	900258	10.0	9.30	
43 Cyclohexane	84	12.204	12.204	0.000	97	619835	10.0	9.31	
44 1,1,1-Trichloroethane	97	12.225	12.225	0.000	97	879927	10.0	9.19	
45 Carbon tetrachloride	117	12.466	12.466	0.000	97	830255	10.0	8.88	
46 Isooctane	57	12.851	12.851	0.000	97	2243583	10.0	9.43	
47 Benzene	78	12.916	12.916	0.000	99	1366677	10.0	9.30	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	96	626875	10.0	9.28	
49 n-Heptane	43	13.210	13.210	0.000	92	877856	10.0	9.37	
* 50 1,4-Difluorobenzene	114	13.681	13.681	0.000	97	1316325	10.0	10.0	
52 n-Butanol	56	14.007	14.007	0.000	91	323559	10.0	10.5	
A 51 GRO	1	14.090	(6.186-21.993)		0	198916408	10.0	0	
53 Trichloroethene	95	14.114	14.114	0.000	92	598363	10.0	8.88	
54 1,2-Dichloropropane	63	14.627	14.627	0.000	88	565079	10.0	9.48	
55 Methyl methacrylate	69	14.745	14.745	0.000	94	538330	10.0	9.69	
56 1,4-Dioxane	88	14.820	14.820	0.000	99	315892	10.0	10.6	
57 Dibromomethane	174	14.868	14.868	0.000	93	466930	10.0	9.12	
58 Dichlorobromomethane	83	15.125	15.125	0.000	98	952542	10.0	9.46	
A 59 TVOC as Toluene	92	15.721	(4.078-27.364)		0	325912262	10.0	0	
60 cis-1,3-Dichloropropene	75	15.976	15.976	0.000	96	804299	10.0	9.44	
61 4-Methyl-2-pentanone (MIBK	43	16.227	16.227	0.000	97	1170099	10.0	9.90	
65 Toluene	92	16.527	16.527	0.000	92	948819	10.0	9.37	
64 n-Octane	43	16.537	16.537	0.000	90	1238467	10.0	9.72	
66 trans-1,3-Dichloropropene	75	17.078	17.078	0.000	99	736400	10.0	9.31	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	97	514722	10.0	9.24	
68 Tetrachloroethene	166	17.543	17.543	0.000	93	671646	10.0	8.77	
69 2-Hexanone	43	17.843	17.843	0.000	95	1078775	10.0	9.79	
71 Chlorodibromomethane	129	18.169	18.169	0.000	95	843220	10.0	9.85	
72 Ethylene Dibromide	107	18.436	18.436	0.000	97	821662	10.0	9.58	
* 74 Chlorobenzene-d5	117	19.292	19.292	0.000	92	1181152	10.0	10.0	
75 Chlorobenzene	112	19.346	19.346	0.000	89	1160951	10.0	9.30	
76 Ethylbenzene	91	19.480	19.480	0.000	99	2037124	10.0	9.50	
77 n-Nonane	57	19.571	19.571	0.000	89	1142669	10.0	9.58	
S 73 Xylenes, Total	106				0		30.0	28.5	
78 m-Xylene & p-Xylene	106	19.720	19.720	0.000	0	1546138	20.0	19.0	
79 o-Xylene	106	20.528	20.528	0.000	98	759427	10.0	9.47	
80 Styrene	104	20.576	20.576	0.000	98	1210170	10.0	9.64	
81 Bromoform	173	20.983	20.983	0.000	92	711726	10.0	10.2	
82 Isopropylbenzene	105	21.154	21.154	0.000	99	2152388	10.0	9.47	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.780	0.000	99	1280418	10.0	9.82	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	2709758	10.0	9.63	
86 1,2,3-Trichloropropane	75	21.876	21.876	0.000	96	1031003	10.0	9.70	
87 n-Decane	57	21.983	21.983	0.000	93	1453135	10.0	9.81	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	85	2212171	10.0	9.60	
89 2-Chlorotoluene	91	22.037	22.037	0.000	97	1983861	10.0	9.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
88 4-Ethyltoluene	105	22.117	22.117	0.000	91	1821447	10.0	9.52	
91 Alpha Methyl Styrene	118	22.475	22.475	0.000	83	928470	10.0	9.80	
92 tert-Butylbenzene	119	22.588	22.588	0.000	90	1669105	10.0	9.37	
93 1,2,4-Trimethylbenzene	105	22.684	22.684	0.000	99	1814834	10.0	9.45	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	2642692	10.0	9.50	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	95	2133146	10.0	9.43	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	97	1121407	10.0	9.33	
97 1,4-Dichlorobenzene	146	23.273	23.273	0.000	89	1077301	10.0	9.30	
98 Benzyl chloride	91	23.470	23.470	0.000	97	1552629	10.0	10.4	
100 n-Butylbenzene	91	23.674	23.674	0.000	98	2370348	10.0	10.1	
99 Undecane	57	23.679	23.679	0.000	94	1666692	10.0	10.2	
101 1,2-Dichlorobenzene	146	23.813	23.813	0.000	91	1101804	10.0	9.38	
102 Dodecane	57	25.289	25.289	0.000	96	1476859	10.0	10.1	
103 1,2,4-Trichlorobenzene	180	26.365	26.365	0.000	93	667851	10.0	8.79	
104 Hexachlorobutadiene	225	26.547	26.547	0.000	94	780964	10.0	8.68	
105 Naphthalene	128	26.868	26.868	0.000	98	1800120	10.0	9.85	
106 1,2,3-Trichlorobenzene	180	27.354	27.354	0.000	93	687057	10.0	8.68	

Reagents:

ATTO15CAL4w_00714	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

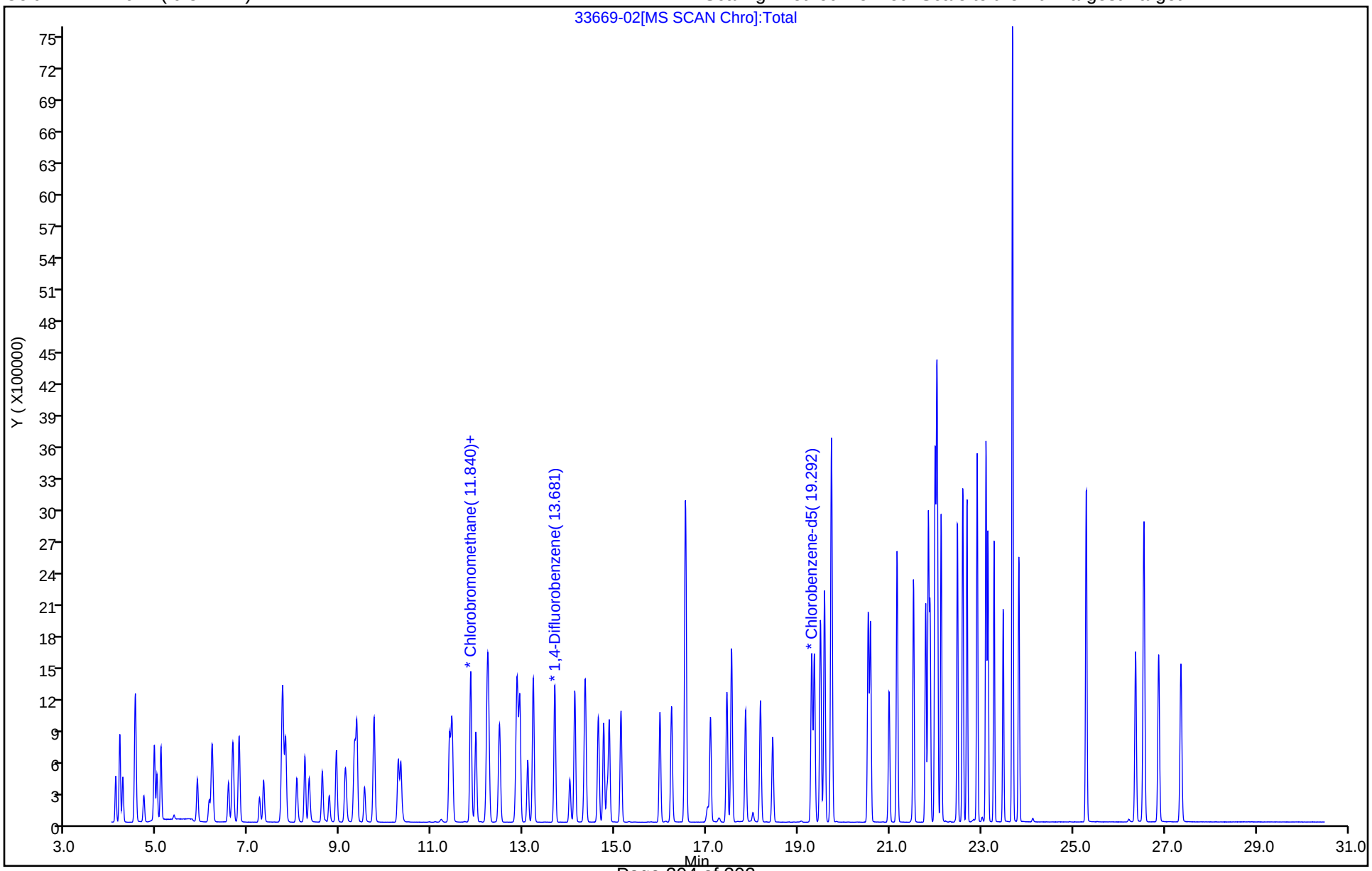
Report Date: 13-Dec-2018 12:25:20 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-02.D

Injection Date:	12-Dec-2018 14:33:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33587-C1.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 07-Dec-2018 18:39:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Sample Info: 0033587-001
Operator ID: GGG Instrument ID: CHX.i

Method: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Dec-2018 11:49:44 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0321

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
9 BFB									
* 40 Chlorobromomethane	128		11.840				10.0	ND	
* 50 1,4-Difluorobenzene	114		13.675				10.0	ND	
* 74 Chlorobenzene-d5	117		19.287				10.0	ND	

Reagents:

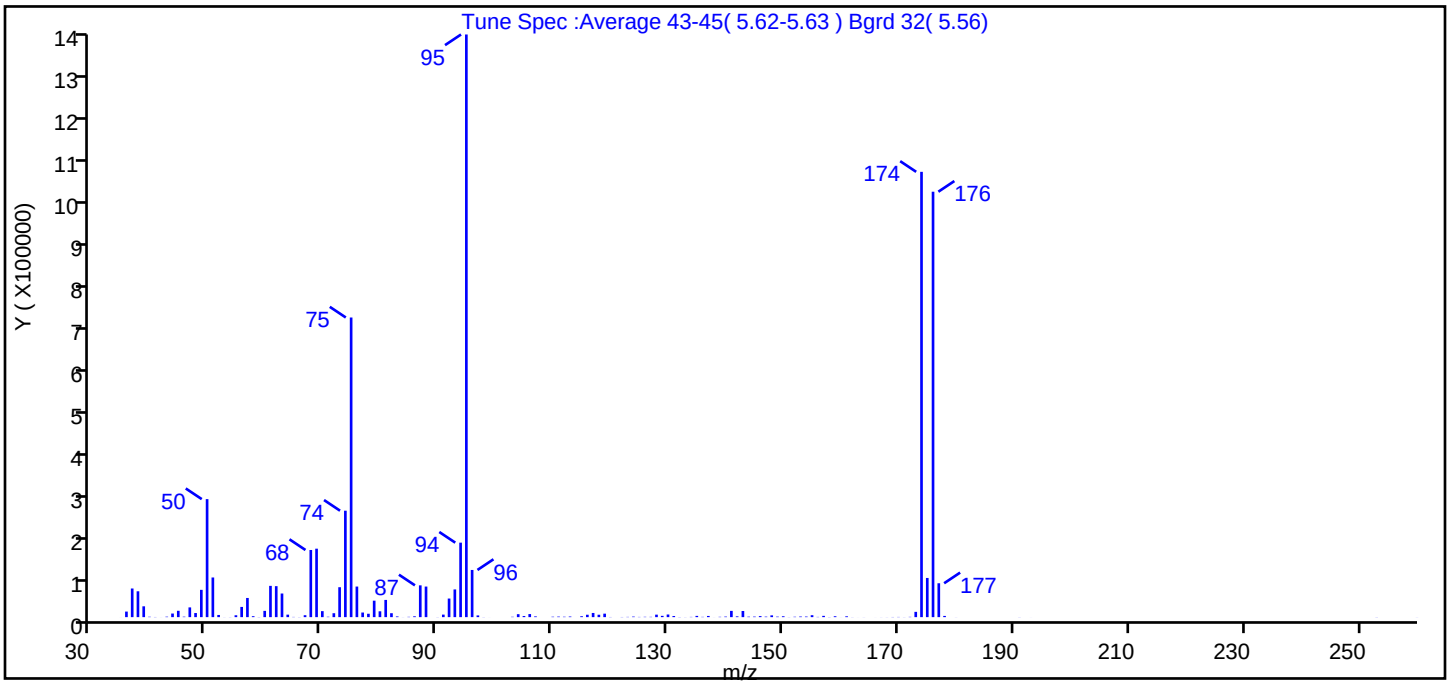
ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33587-C1.D				
Injection Date:	07-Dec-2018 18:39:30	Instrument ID:	CHX.i		
Lims ID:	bfb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	200.0 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Tune Method:	BFB Method TO-15				

9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	20.3
75	30.0 to 66.0 Percent of m/e 95	51.4
96	5.0 to 9.0 Percent of m/e 95	8.1
173	Less than 2.0 Percent of m/e 174	0.9 (1.2)
174	50.0 to 120.0 Percent of m/e 95	76.4
175	4.0 to 9.0 Percent of m/e 174	6.7 (8.8)
176	93.0 to 101.0 Percent of m/e 174	73.0 (95.5)
177	5.0 to 9.0 Percent of m/e 176	5.8 (8.0)

Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33587-C1.D\TO15_MasterMethod_X.m.rslt\sp
Injection Date: 07-Dec-2018 18:39:30
Spectrum: Tune Spec :Average 43-45(5.62-5.63) Bgrd 32(5.56)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	68	70.00	14139	111.00	1291	148.00	4195
36.00	13133	71.00	942	112.00	961	149.00	1184
37.00	67488	72.00	9258	113.00	1457	150.00	2028
38.00	60928	73.00	70512	115.00	2114	151.00	215
39.00	25512	74.00	250752	116.00	5673	152.00	908
40.00	891	75.00	705920	117.00	9834	153.00	1454
41.00	383	76.00	72056	118.00	5673	154.00	1388
42.00	80	77.00	10872	119.00	8215	155.00	4558
43.00	1095	78.00	7995	120.00	378	156.00	551
44.00	8505	79.00	38792	122.00	375	157.00	3019
45.00	14960	80.00	13759	123.00	572	158.00	312
46.00	1092	81.00	40568	124.00	1291	159.00	2090
47.00	22976	82.00	9270	125.00	524	160.00	79
48.00	9689	83.00	1645	126.00	784	161.00	1944
49.00	64320	84.00	134	127.00	671	162.00	175
50.00	278016	85.00	690	128.00	5864	163.00	58
51.00	93432	86.00	1953	129.00	3041	164.00	136
52.00	5142	87.00	74912	130.00	6216	166.00	58
53.00	140	88.00	72064	131.00	2604	167.00	128
54.00	235	90.00	230	132.00	334	168.00	153
55.00	4418	91.00	5979	133.00	189	169.00	385
56.00	24056	92.00	43816	134.00	566	170.00	475
57.00	45176	93.00	65280	135.00	2952	171.00	192
58.00	2203	94.00	175488	136.00	640	172.00	661
59.00	329	95.00	1372672	137.00	2824	173.00	12480
60.00	14767	96.00	111152	138.00	91	174.00	1049088
61.00	73688	97.00	4037	139.00	763	175.00	92304
62.00	73008	98.00	220	140.00	1288	176.00	1002240
63.00	55680	99.00	65	141.00	14766	177.00	79824
64.00	5877	103.00	829	142.00	1812	178.00	2871
65.00	508	104.00	6972	143.00	14483	180.00	135
66.00	283	105.00	2623	144.00	1098	191.00	212
67.00	4549	106.00	7251	145.00	1280	193.00	65

Report Date: 10-Dec-2018 11:49:44 Chrom Revision: 2.3 21-Nov-2018 13:56:44
Data File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33587-C1.D\TO15_MasterMethod_X.m.rslt\sp
Injection Date: 07-Dec-2018 18:39:30
Spectrum: Tune Spec :Average 43-45(5.62-5.63) Bgrd 32(5.56)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
68.00	158208	107.00	1771	146.00	2436	253.00	255
69.00	161280	110.00	998	147.00	1213	260.00	132

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 12-Dec-2018 13:51:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Sample Info: 200-0033669-001
Operator ID: GGG Instrument ID: CHX.i

Method: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Dec-2018 12:23:58 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0307

First Level Reviewer: bunmaa Date: 13-Dec-2018 12:23:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
9 BFB									
* 40 Chlorobromomethane	128		11.840				10.0	ND	
* 50 1,4-Difluorobenzene	114		13.681				10.0	ND	
* 74 Chlorobenzene-d5	117		19.292				10.0	ND	

Reagents:

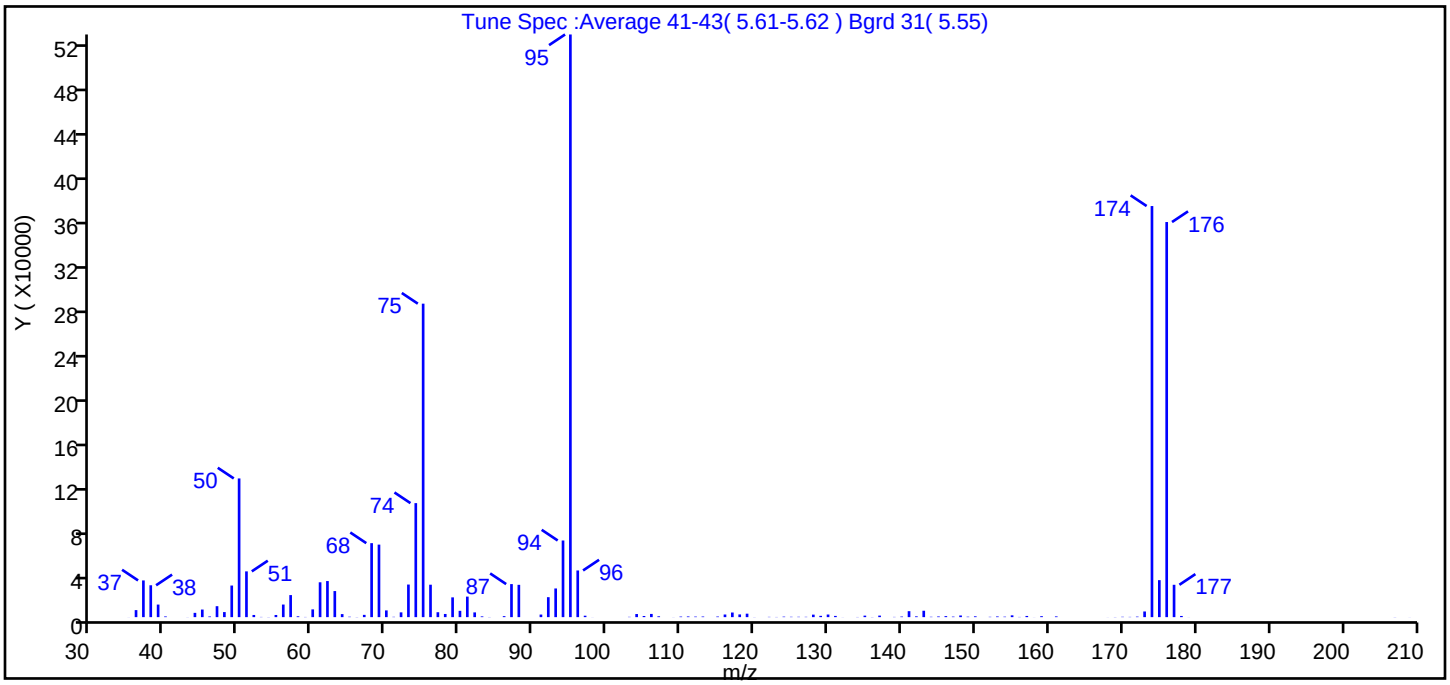
ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

MS Tune Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-01.D
Injection Date: 12-Dec-2018 13:51:30 Instrument ID: CHX.i
Lims ID: bfb
Client ID:
Operator ID: GGG ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 200.0 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100 Percent Relative Abundance	100.0
50	8.0 to 40.0 Percent of m/e 95	23.8
75	30.0 to 66.0 Percent of m/e 95	53.8
96	5.0 to 9.0 Percent of m/e 95	8.0
173	Less than 2.0 Percent of m/e 174	1.0 (1.4)
174	50.0 to 120.0 Percent of m/e 95	70.6
175	4.0 to 9.0 Percent of m/e 174	6.3 (9.0)
176	93.0 to 101.0 Percent of m/e 174	67.8 (96.1)
177	5.0 to 9.0 Percent of m/e 176	5.6 (8.2)

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-01.D\TO15_MasterMethod_X.m.rslt\sp
Injection Date: 12-Dec-2018 13:51:30
Spectrum: Tune Spec :Average 41-43(5.61-5.62) Bgrd 31(5.55)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	54	69.00	65904	109.00	68	145.00	613
36.00	6391	70.00	6122	110.00	512	146.00	932
37.00	33360	71.00	290	111.00	635	147.00	482
38.00	28968	72.00	4342	112.00	497	148.00	1505
39.00	11423	73.00	29624	113.00	558	149.00	399
40.00	639	74.00	103608	115.00	554	150.00	746
43.00	76	75.00	284864	116.00	2398	152.00	299
44.00	3898	76.00	29480	117.00	4205	153.00	630
45.00	6907	77.00	4461	118.00	2472	154.00	423
46.00	596	78.00	2889	119.00	3151	155.00	1643
47.00	9958	79.00	17968	120.00	92	156.00	185
48.00	4602	80.00	5741	122.00	250	157.00	1077
49.00	28720	81.00	18656	123.00	161	158.00	54
50.00	126040	82.00	4314	124.00	455	159.00	856
51.00	41592	83.00	683	125.00	318	161.00	682
52.00	1979	84.00	137	126.00	321	168.00	51
53.00	193	86.00	897	127.00	291	169.00	135
54.00	126	87.00	30032	128.00	2281	170.00	326
55.00	1962	88.00	29360	129.00	1182	171.00	228
56.00	11453	91.00	2354	130.00	2378	172.00	475
57.00	20040	92.00	18136	131.00	1118	173.00	5151
58.00	762	93.00	26064	132.00	60	174.00	373568
59.00	177	94.00	69656	134.00	152	175.00	33608
60.00	7044	95.00	529472	135.00	1368	176.00	359040
61.00	31672	96.00	42416	136.00	131	177.00	29408
62.00	32792	97.00	1303	137.00	1399	178.00	1077
63.00	23696	98.00	55	139.00	212	179.00	52
64.00	2769	103.00	273	140.00	529	207.00	105
65.00	377	104.00	2832	141.00	5430	209.00	52
66.00	131	105.00	1027	142.00	738		
67.00	2070	106.00	2917	143.00	5817		
68.00	67240	107.00	750	144.00	331		

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: Lab Sample ID: MB 200-138095/4

Matrix: Air Lab File ID: 33669-04.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 12/12/2018 16:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 138095 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	6.2	U	12	6.2
71-43-2	Benzene	0.23	U	0.64	0.23
75-25-2	Bromoform	0.89	U	2.1	0.89
74-83-9	Bromomethane	0.24	U	0.78	0.24
106-99-0	Butadiene	0.14	U	0.44	0.14
78-93-3	2-Butanone (MEK)	0.59	U	1.5	0.59
75-15-0	Carbon disulfide	0.37	U	1.6	0.37
56-23-5	Carbon tetrachloride	0.15	U	1.3	0.15
108-90-7	Chlorobenzene	0.18	U	0.92	0.18
124-48-1	Chlorodibromomethane	0.60	U	1.7	0.60
75-00-3	Chloroethane	0.55	U	1.3	0.55
67-66-3	Chloroform	0.25	U	0.98	0.25
74-87-3	Chloromethane	0.52	U	1.0	0.52
107-05-1	3-Chloro-1-propene	0.85	U	1.6	0.85
95-49-8	2-Chlorotoluene	0.37	U	1.0	0.37
156-59-2	cis-1,2-Dichloroethene	0.15	U	0.79	0.15
10061-01-5	cis-1,3-Dichloropropene	0.44	U	0.91	0.44
110-82-7	Cyclohexane	0.22	U	0.69	0.22
541-73-1	1,3-Dichlorobenzene	0.49	U	1.2	0.49
106-46-7	1,4-Dichlorobenzene	0.464	J	1.2	0.39
95-50-1	1,2-Dichlorobenzene	0.43	U	1.2	0.43
75-27-4	Dichlorobromomethane	0.63	U	1.3	0.63
75-71-8	Dichlorodifluoromethane	0.99	U	2.5	0.99
75-34-3	1,1-Dichloroethane	0.11	U	0.81	0.11
107-06-2	1,2-Dichloroethane	0.25	U	0.81	0.25
75-35-4	1,1-Dichloroethene	0.13	U	0.79	0.13
78-87-5	1,2-Dichloropropane	0.55	U	0.92	0.55
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.48	U	1.4	0.48
123-91-1	1,4-Dioxane	4.7	U	18	4.7
64-17-5	Ethanol	2.3	U	9.4	2.3
100-41-4	Ethylbenzene	0.32	U	0.87	0.32
106-93-4	Ethylene Dibromide	0.53	U	1.5	0.53
622-96-8	4-Ethyltoluene	0.34	U	0.98	0.34
87-68-3	Hexachlorobutadiene	0.87	U	2.1	0.87
110-54-3	Hexane	0.56	U	0.70	0.56

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

Lab Name: TestAmerica Burlington | Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: | Lab Sample ID: MB 200-138095/4

Matrix: Air | Lab File ID: 33669-04.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 12/12/2018 16:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

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

Analysis Batch No.: 138095 | Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
540-84-1	Isooctane	0.41	U	0.93	0.41
67-63-0	Isopropyl alcohol	4.4	U	12	4.4
75-09-2	Methylene Chloride	0.69	U	1.7	0.69
80-62-6	Methyl methacrylate	0.90	U	2.0	0.90
108-10-1	4-Methyl-2-pentanone (MIBK)	1.5	U	2.0	1.5
75-65-0	2-Methyl-2-propanol	4.5	U	15	4.5
1634-04-4	Methyl tert-butyl ether	0.22	U	0.72	0.22
179601-23-1	m-Xylene & p-Xylene	0.30	U	2.2	0.30
91-20-3	Naphthalene	1.6	U	2.6	1.6
142-82-5	n-Heptane	0.57	U	0.82	0.57
95-47-6	o-Xylene	0.31	U	0.87	0.31
100-42-5	Styrene	0.37	U	0.85	0.37
98-06-6	tert-Butylbenzene	0.32	U	1.1	0.32
79-34-5	1,1,2,2-Tetrachloroethane	0.52	U	1.4	0.52
127-18-4	Tetrachloroethene	0.20	U	1.4	0.20
109-99-9	Tetrahydrofuran	7.7	U	15	7.7
108-88-3	Toluene	0.26	U	0.75	0.26
156-60-5	trans-1,2-Dichloroethene	0.29	U	0.79	0.29
10061-02-6	trans-1,3-Dichloropropene	0.54	U	0.91	0.54
120-82-1	1,2,4-Trichlorobenzene	1.8	U	3.7	1.8
71-55-6	1,1,1-Trichloroethane	0.37	U	1.1	0.37
79-00-5	1,1,2-Trichloroethane	0.43	U	1.1	0.43
79-01-6	Trichloroethene	0.16	U	1.1	0.16
75-69-4	Trichlorofluoromethane	0.35	U	1.1	0.35
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.24	U	1.5	0.24
108-67-8	1,3,5-Trimethylbenzene	0.29	U	0.98	0.29
95-63-6	1,2,4-Trimethylbenzene	0.39	U	0.98	0.39
593-60-2	Vinyl bromide	0.24	U	0.87	0.24
75-01-4	Vinyl chloride	0.10	U	0.51	0.10

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: Lab Sample ID: MB 200-138095/4

Matrix: Air Lab File ID: 33669-04.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 12/12/2018 16:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 138095 Units: ug/m3

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 12-Dec-2018 16:19:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033669-004
Operator ID: GGG Instrument ID: CHX.i

Method: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Dec-2018 12:35:33 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0307

First Level Reviewer: bunmaa Date: 13-Dec-2018 12:35:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41		4.088					ND	U
2 Dichlorodifluoromethane	85		4.179					ND	
3 Chlorodifluoromethane	51		4.244					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.516					ND	
5 Chloromethane	50		4.704					ND	U
6 Butane	43		4.928					ND	U
7 Vinyl chloride	62		4.987					ND	
8 Butadiene	54		5.078					ND	U
10 Bromomethane	94		5.870					ND	
11 Chloroethane	64		6.127					ND	
12 2-Methylbutane	43		6.196					ND	U
13 Vinyl bromide	106		6.549					ND	
14 Trichlorofluoromethane	101		6.646					ND	
16 Pentane	43		6.785					ND	
17 Ethanol	45	7.234	7.229	0.005	94	4655		0.2629	
18 Ethyl ether	59		7.320					ND	
19 Acrolein	56		7.726					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		7.732					ND	
21 1,1-Dichloroethene	96		7.801					ND	
22 Acetone	43		8.042					ND	
23 Carbon disulfide	76		8.218					ND	U
24 Isopropyl alcohol	45	8.325	8.315	0.010	98	8895		0.1341	
25 3-Chloro-1-propene	41		8.598					ND	U
26 Acetonitrile	41		8.753					ND	U
27 Methylene Chloride	49		8.909					ND	MU
28 2-Methyl-2-propanol	59		9.107					ND	
29 Methyl tert-butyl ether	73		9.310					ND	
31 trans-1,2-Dichloroethene	61		9.353					ND	
32 Acrylonitrile	53		9.518					ND	
S 30 1,2-Dichloroethene, Total	61		9.665					ND	
33 Hexane	57		9.732					ND	
34 1,1-Dichloroethane	63		10.262					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
35 Vinyl acetate	43		10.316					ND	U
37 cis-1,2-Dichloroethene	96		11.375					ND	
38 2-Butanone (MEK)	72		11.418					ND	
39 Ethyl acetate	88		11.444					ND	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	96	276558	10.0	10.0	
41 Tetrahydrofuran	42		11.846					ND	U
42 Chloroform	83		11.953					ND	
43 Cyclohexane	84		12.204					ND	
44 1,1,1-Trichloroethane	97		12.225					ND	
45 Carbon tetrachloride	117		12.466					ND	
46 Isooctane	57		12.851					ND	
47 Benzene	78		12.916					ND	U
48 1,2-Dichloroethane	62		13.087					ND	
49 n-Heptane	43		13.210					ND	U
* 50 1,4-Difluorobenzene	114	13.675	13.681	-0.005	98	1252881	10.0	10.0	
52 n-Butanol	56		14.007					ND	
A 51 GRO	1	14.090	(6.186-21.993)		0	4642894		0	
53 Trichloroethene	95		14.114					ND	
54 1,2-Dichloropropane	63		14.627					ND	
55 Methyl methacrylate	69		14.745					ND	
56 1,4-Dioxane	88		14.820					ND	MU
57 Dibromomethane	174		14.868					ND	U
58 Dichlorobromomethane	83		15.125					ND	
A 59 TVOC as Toluene	92	15.721	(4.078-27.364)		0	5250484		0	
60 cis-1,3-Dichloropropene	75		15.976					ND	U
61 4-Methyl-2-pentanone (MIBK	43		16.227					ND	U
65 Toluene	92		16.527					ND	MU
64 n-Octane	43		16.537					ND	U
66 trans-1,3-Dichloropropene	75		17.078					ND	U
67 1,1,2-Trichloroethane	83		17.436					ND	
68 Tetrachloroethene	166		17.543					ND	U
69 2-Hexanone	43		17.843					ND	MU
71 Chlorodibromomethane	129	18.169	18.169	0.000	70	958		0.0121	
72 Ethylene Dibromide	107	18.436	18.436	0.000	19	1354		0.0171	
* 74 Chlorobenzene-d5	117	19.287	19.292	-0.005	93	1091952	10.0	10.0	
75 Chlorobenzene	112	19.335	19.346	-0.011	75	2349		0.0204	
76 Ethylbenzene	91	19.480	19.480	0.000	93	3027		0.0153	
77 n-Nonane	57		19.571					ND	
S 73 Xylenes, Total	106				0			0.0251	
78 m-Xylene & p-Xylene	106	19.720	19.720	0.000	0	1889		0.0251	M
79 o-Xylene	106		20.528					ND	
80 Styrene	104	20.571	20.576	-0.005	91	2817		0.0243	
81 Bromoform	173	20.977	20.983	-0.006	82	1358		0.0210	
82 Isopropylbenzene	105		21.154					ND	U
84 1,1,2,2-Tetrachloroethane	83	21.769	21.780	-0.011	1	2053		0.0170	
85 N-Propylbenzene	91	21.839	21.839	0.000	95	3622		0.0139	
86 1,2,3-Trichloropropane	75		21.876					ND	
87 n-Decane	57		21.983					ND	
90 1,3,5-Trimethylbenzene	105	22.026	22.026	0.011	75	3528		0.0166	M
89 2-Chlorotoluene	91	22.037	22.037	0.000	90	3230		0.0170	
88 4-Ethyltoluene	105	22.122	22.122	0.005	1	1195		0.006758	7a
91 Alpha Methyl Styrene	118	22.470	22.470	-0.005	54	1941		0.0222	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
92 tert-Butylbenzene	119		22.588					ND	
93 1,2,4-Trimethylbenzene	105	22.684	22.684	0.000	92	1931		0.0109	
94 sec-Butylbenzene	105		22.903					ND	U
95 4-Isopropyltoluene	119		23.096					ND	MU
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	95	7305		0.0658	
97 1,4-Dichlorobenzene	146	23.272	23.273	-0.001	87	8269		0.0773	
98 Benzyl chloride	91	23.470	23.470	0.000	96	8852		0.0642	
100 n-Butylbenzene	91	23.679	23.674	0.005	95	4223		0.0195	
99 Undecane	57		23.679					ND	
101 1,2-Dichlorobenzene	146	23.818	23.813	0.005	84	5175		0.0477	
102 Dodecane	57		25.289					ND	
103 1,2,4-Trichlorobenzene	180	26.370	26.365	0.005	90	8901		0.1267	
104 Hexachlorobutadiene	225		26.547					ND	U
105 Naphthalene	128	26.873	26.873	0.005	97	14117		0.0835	M
106 1,2,3-Trichlorobenzene	180	27.354	27.354	0.000	89	6640		0.0907	
122 Total Alkanes 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:

ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

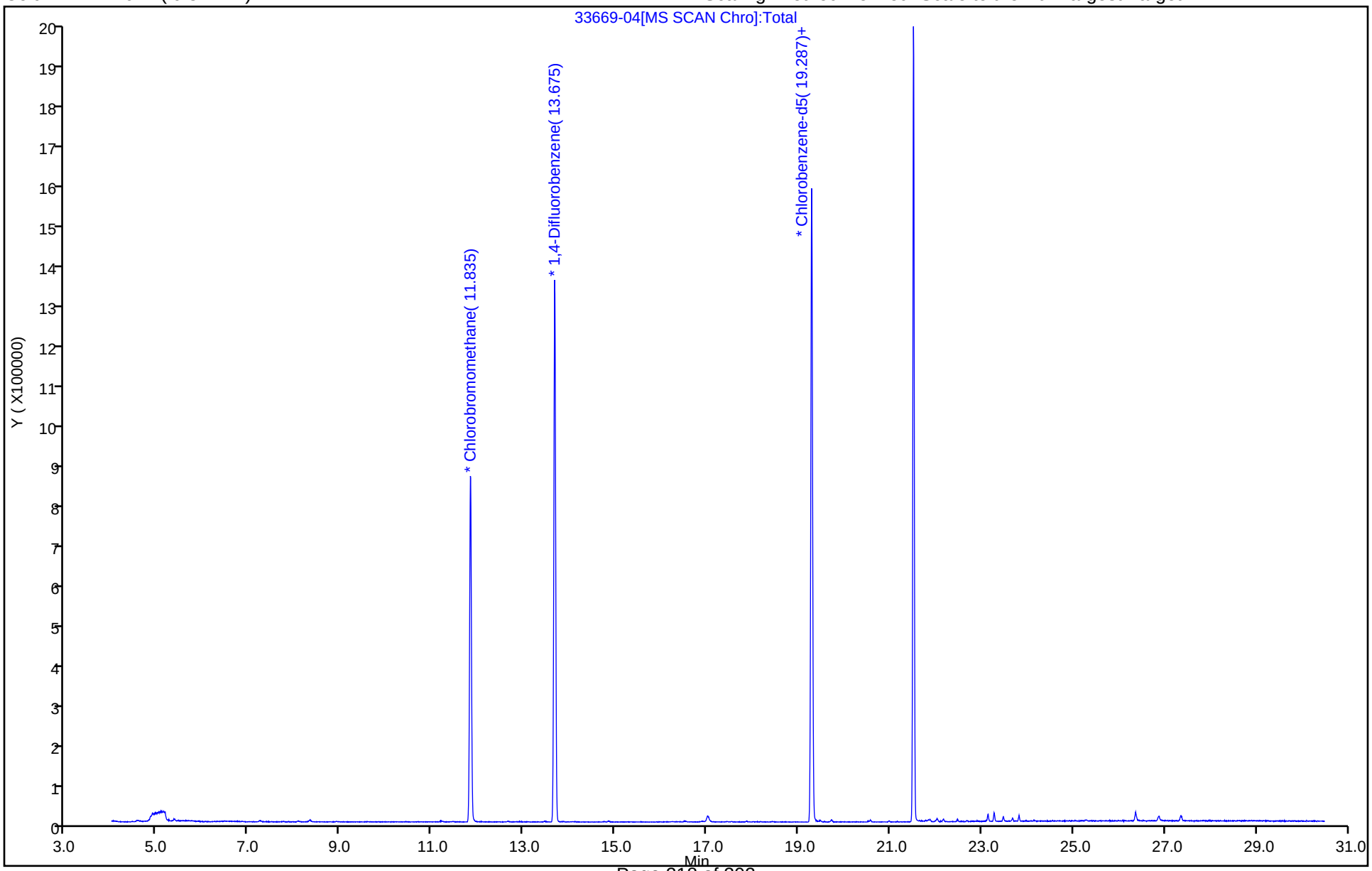
Report Date: 13-Dec-2018 12:35:33 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D

Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	mb			Worklist Smp#:	4
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 13-Dec-2018 12:35:34 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D

Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i

Lims ID: mb

Client ID:

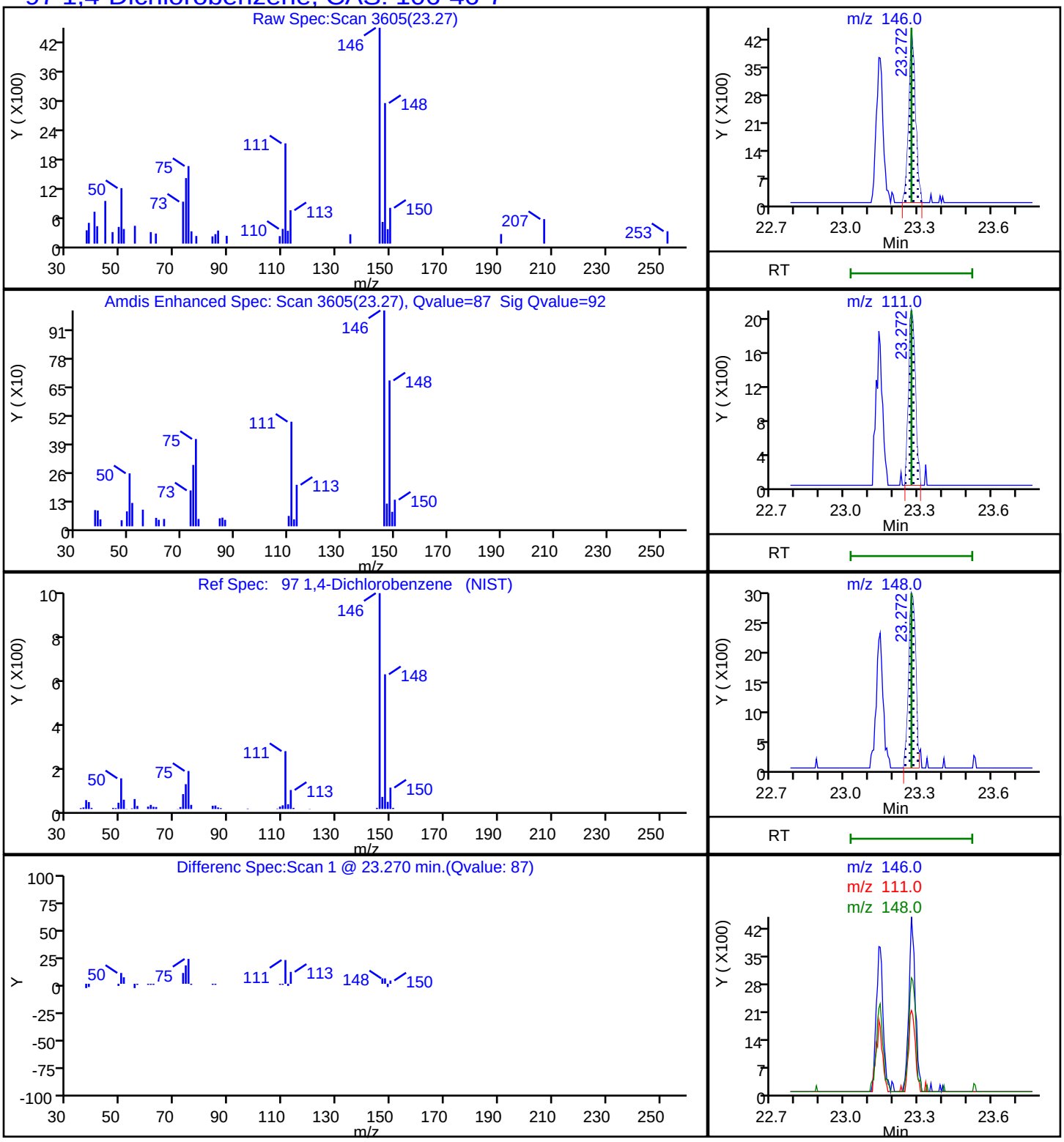
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4

Purge Vol: 200.000 mL Dil. Factor: 1.0000

Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm) Detector MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7



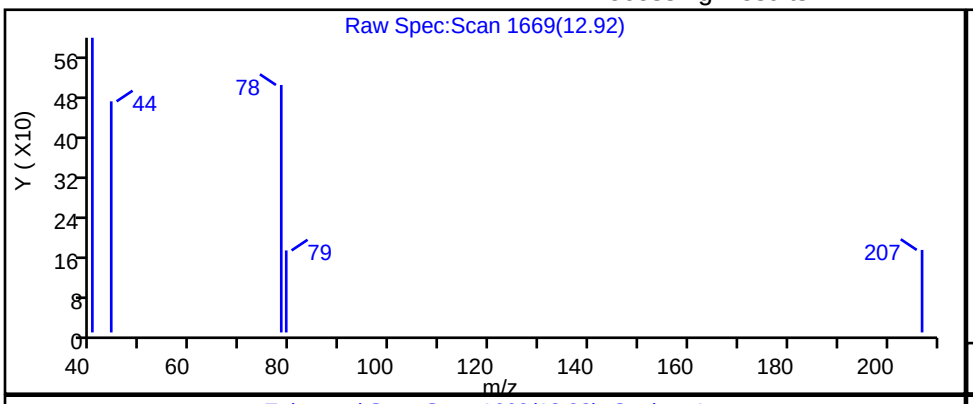
User Disabled Compound Report

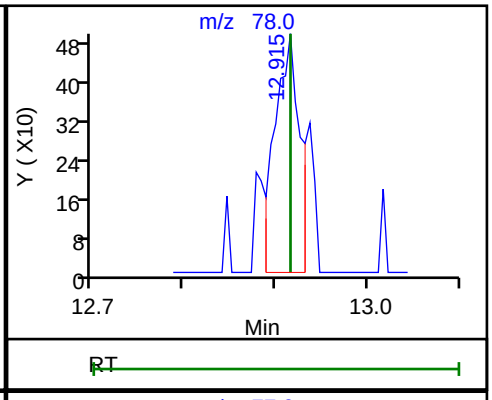
TestAmerica Burlington

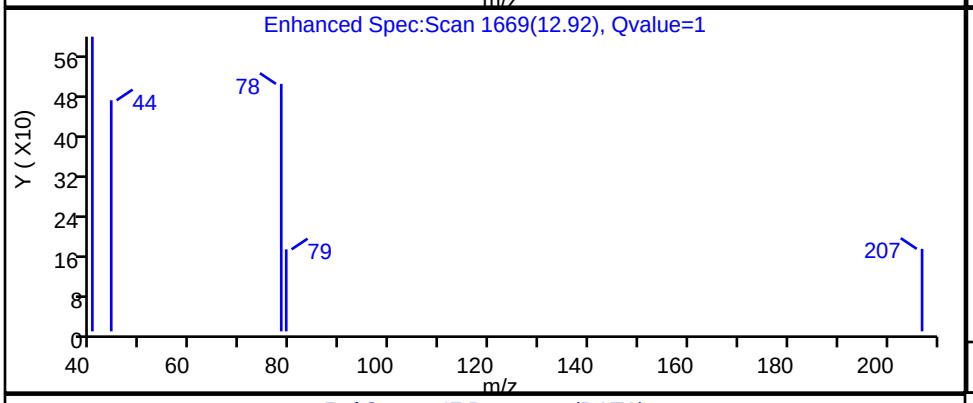
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

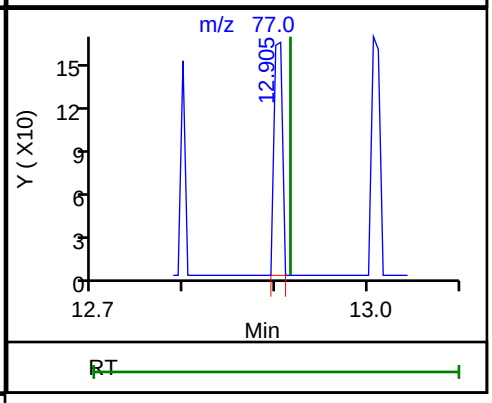
47 Benzene, CAS: 71-43-2

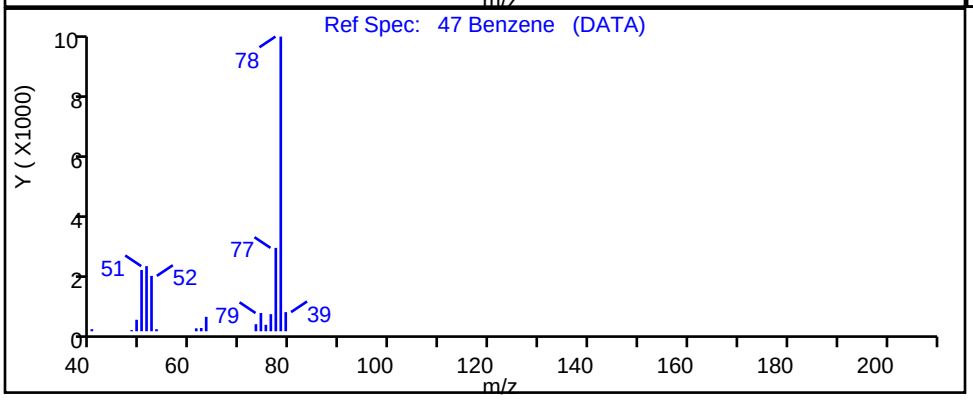
Processing Results











RT	Mass	Response	Amount
12.92	78.00	948	0.006776
12.90	77.00	105	

Reviewer: bunmaa, 13-Dec-2018 12:29:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

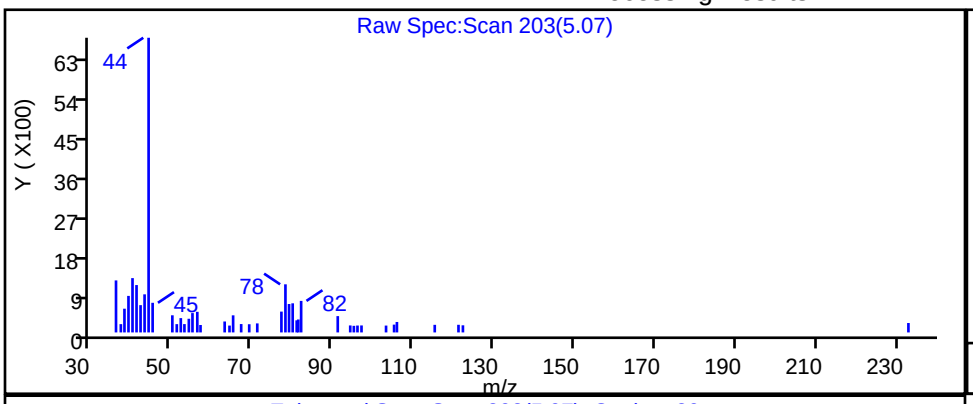
User Disabled Compound Report

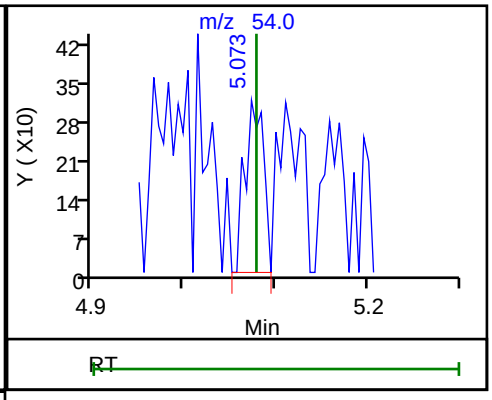
TestAmerica Burlington

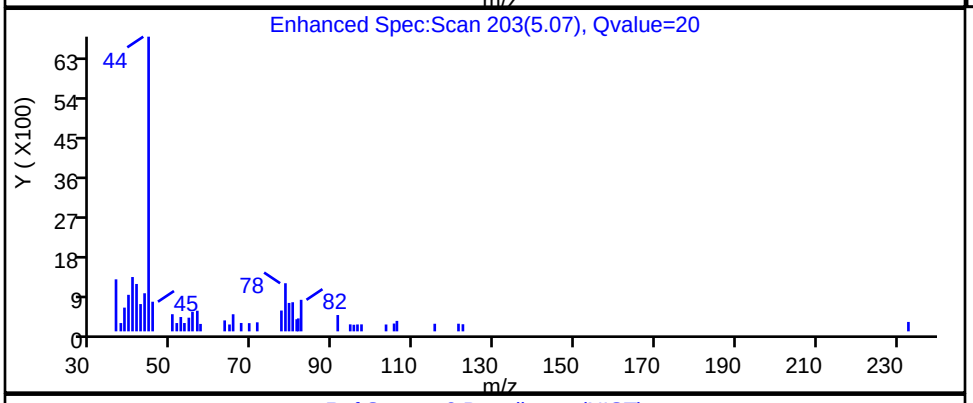
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

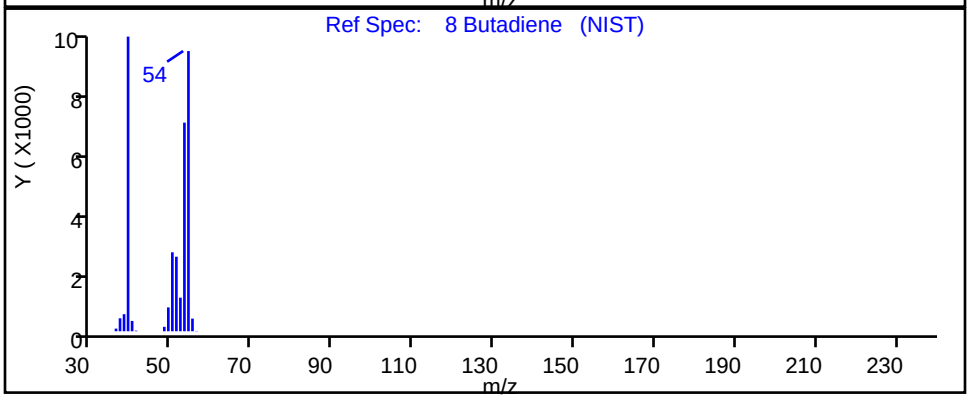
8 Butadiene, CAS: 106-99-0

Processing Results









RT	Mass	Response	Amount
5.07	54.00	445	0.010212

Reviewer: bunmaa, 13-Dec-2018 12:27:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

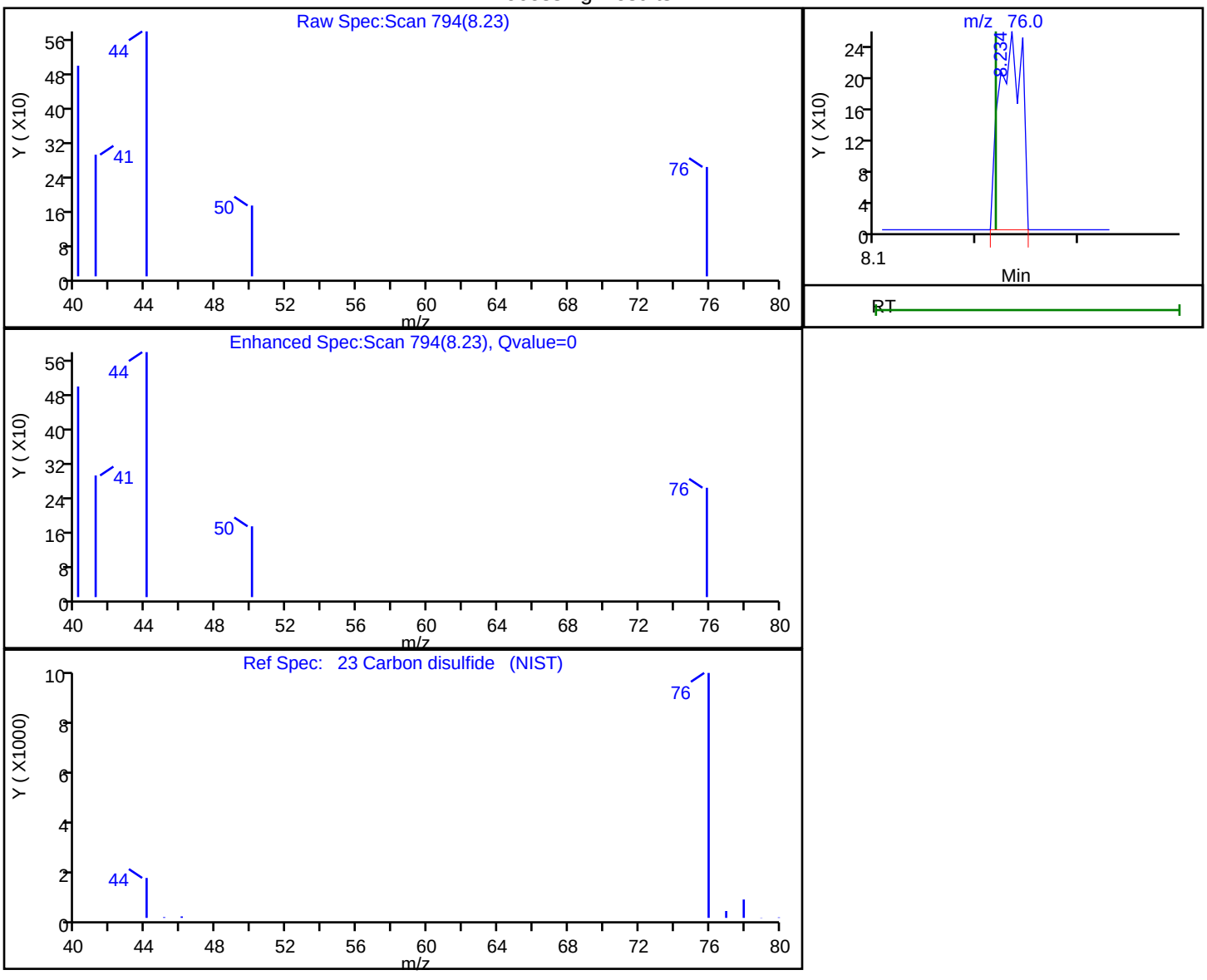
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
8.23	76.00	391	0.003355

Reviewer: bunmaa, 13-Dec-2018 12:28:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

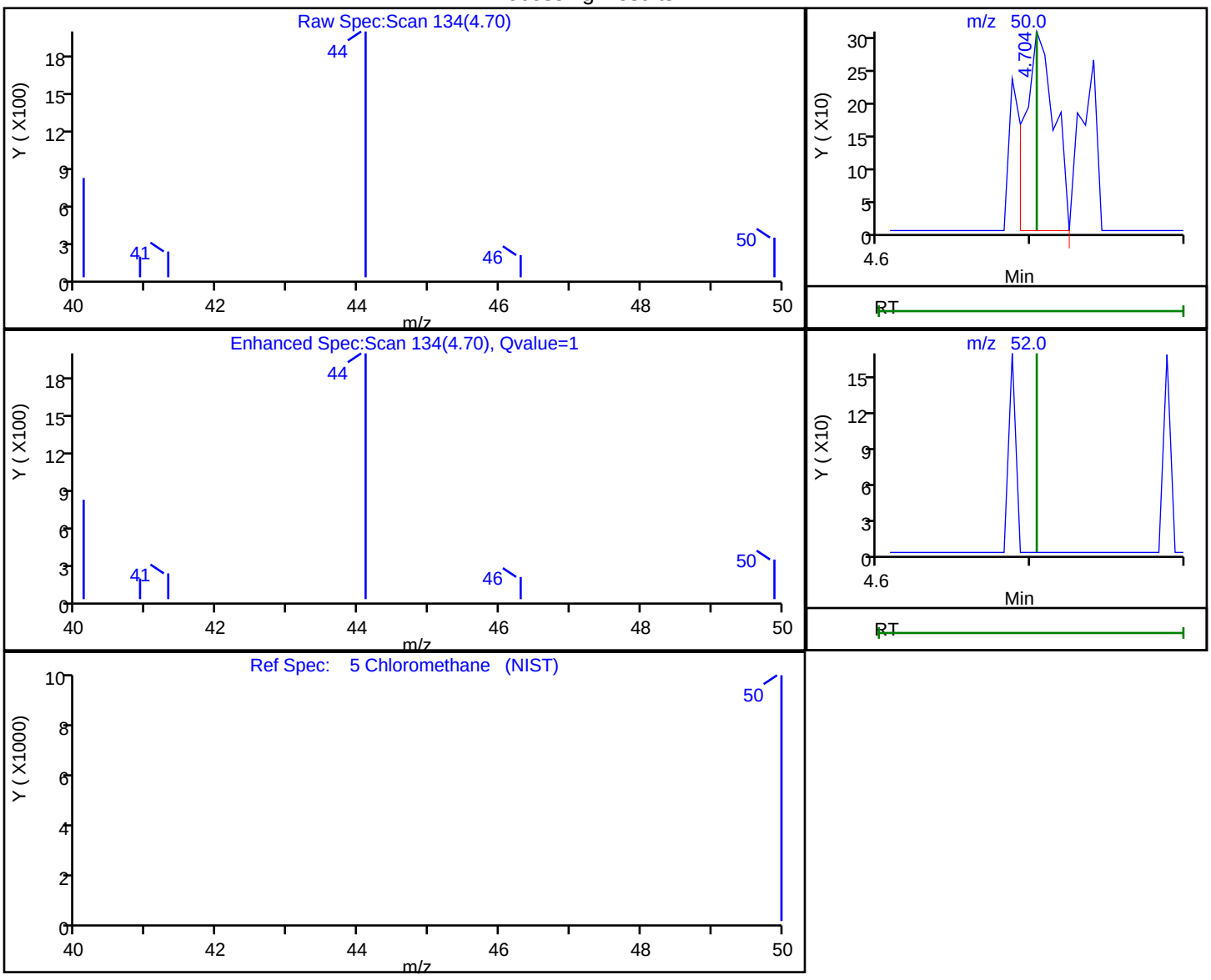
User Disabled Compound Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.70	50.00	409	0.012567
4.70	52.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:27:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

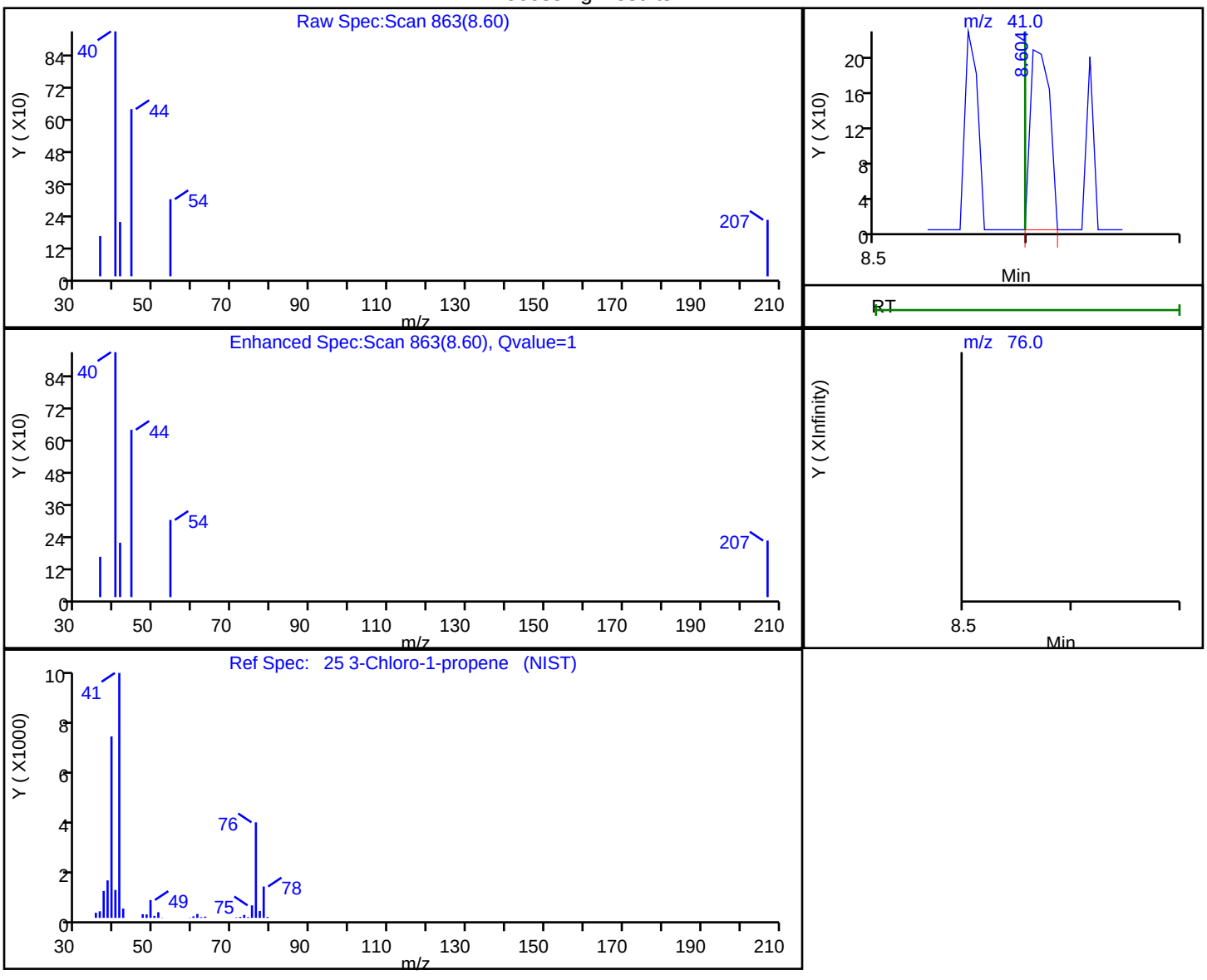
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
8.60	41.00	181	0.003491
8.60	76.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:28:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

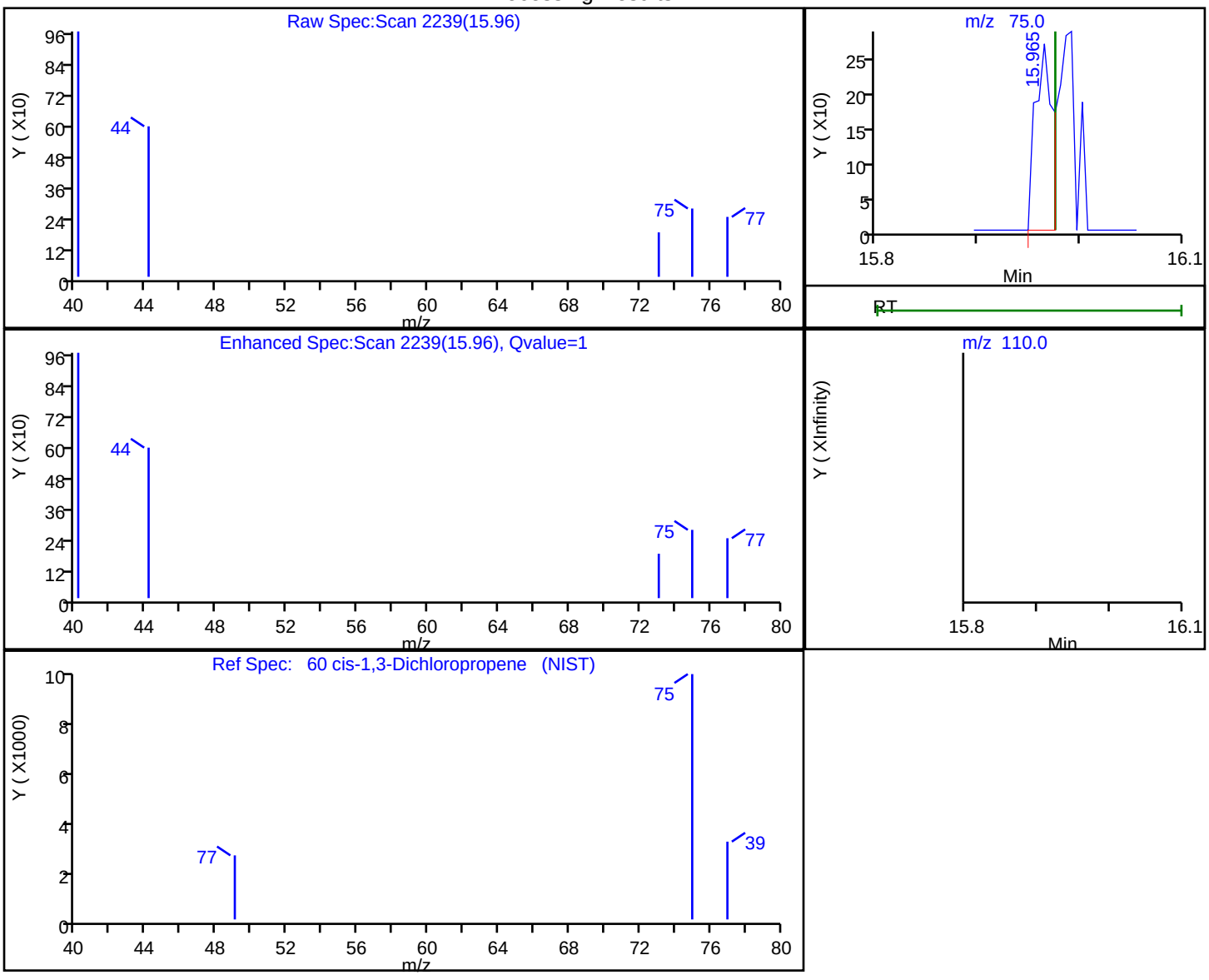
User Disabled Compound Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
15.96	75.00	318	0.003921
15.98	110.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:29:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

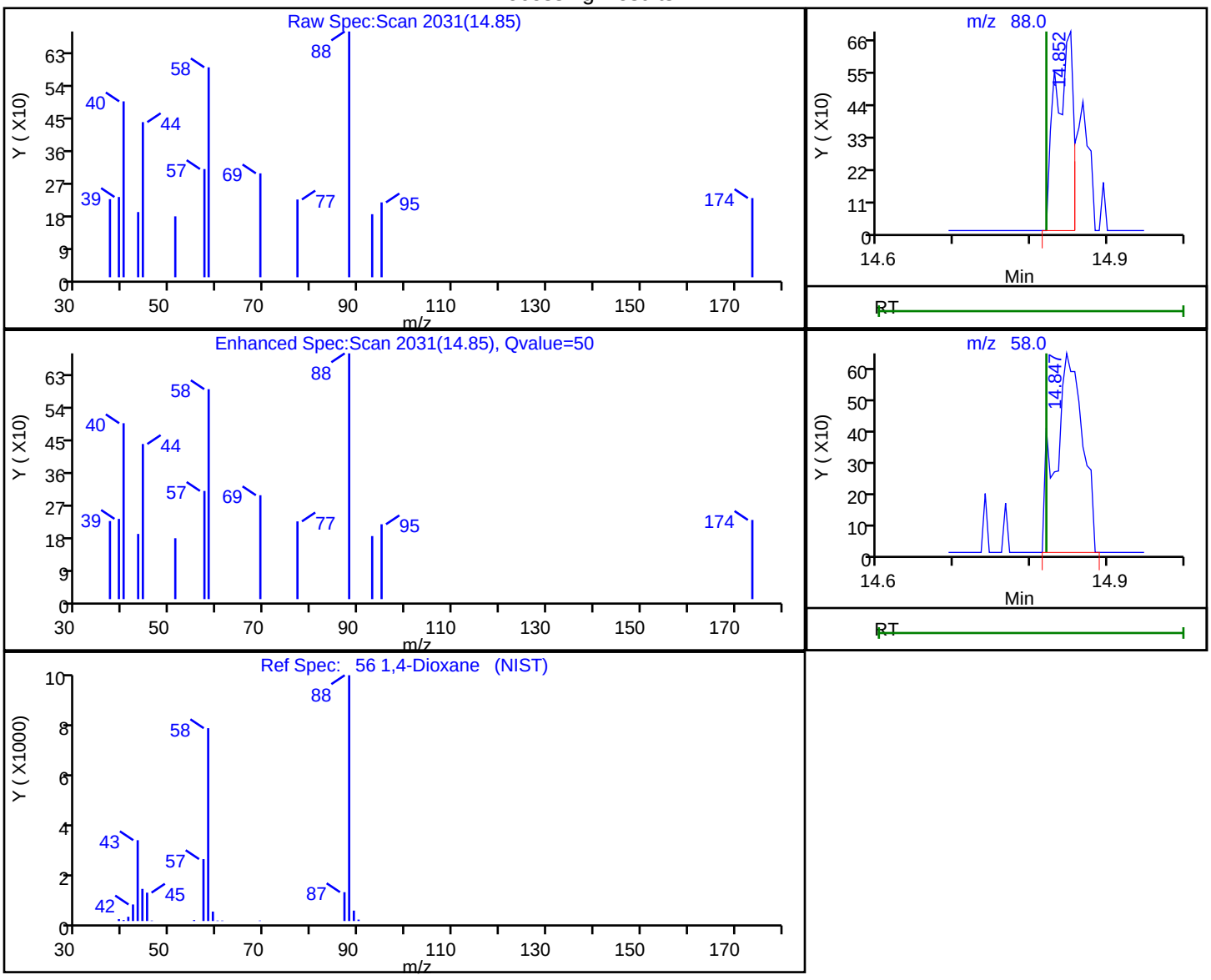
User Disabled Compound Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
14.85	88.00	1071	0.037864
14.85	58.00	1574	

Reviewer: bunmaa, 13-Dec-2018 12:29:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

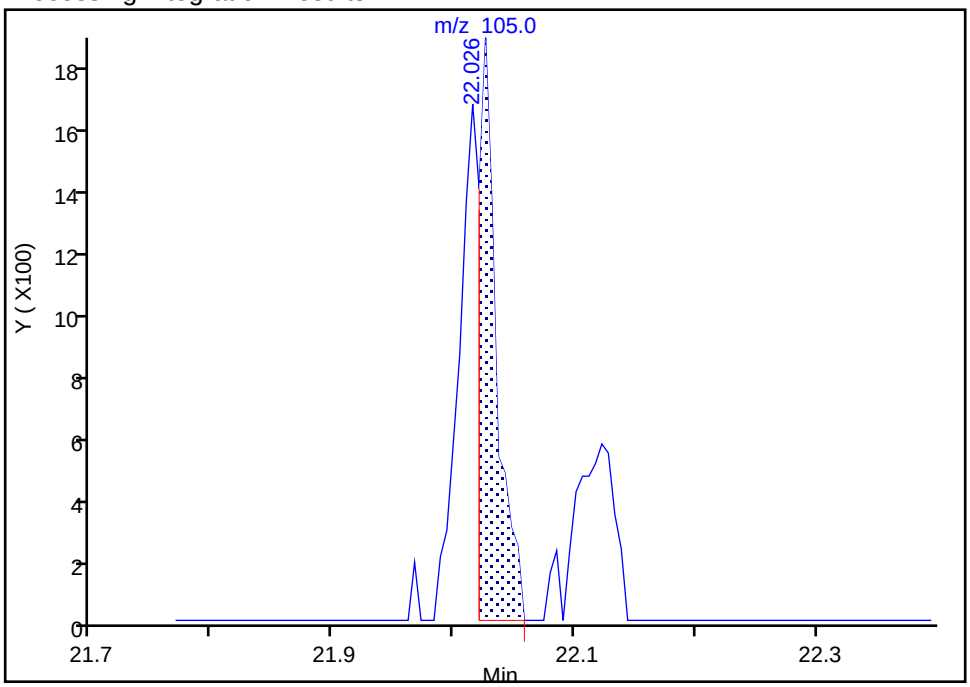
Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

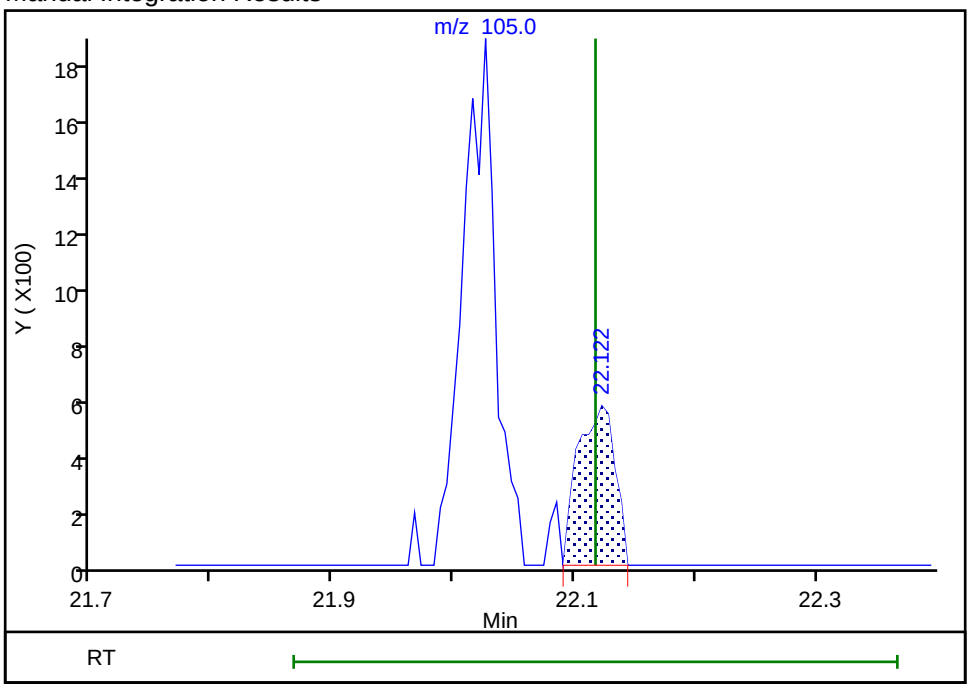
Processing Integration Results

RT: 22.03
Area: 1956
Amount: 0.011061
Amount Units: ppb v/v



Manual Integration Results

RT: 22.12
Area: 1195
Amount: 0.006758
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:33:43
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

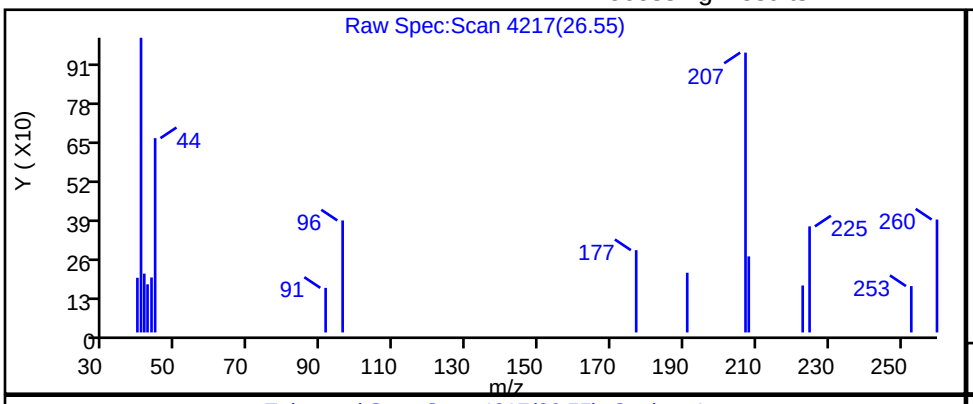
User Disabled Compound Report

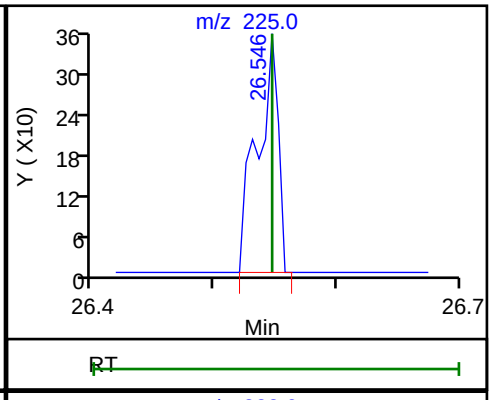
TestAmerica Burlington

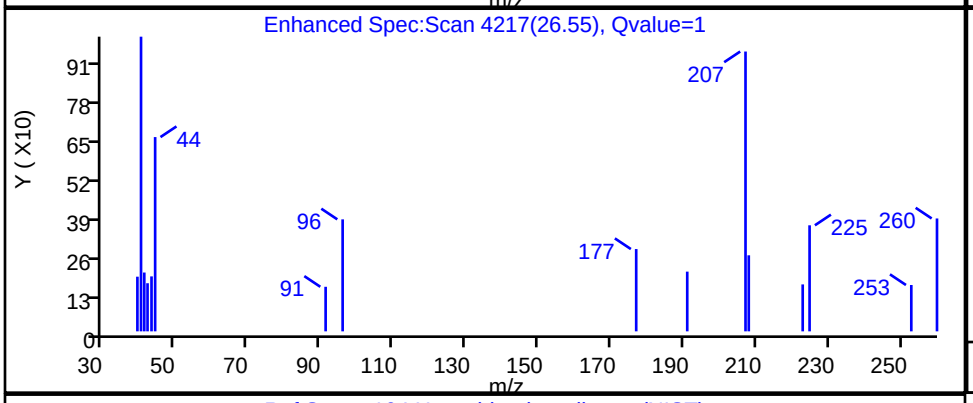
Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

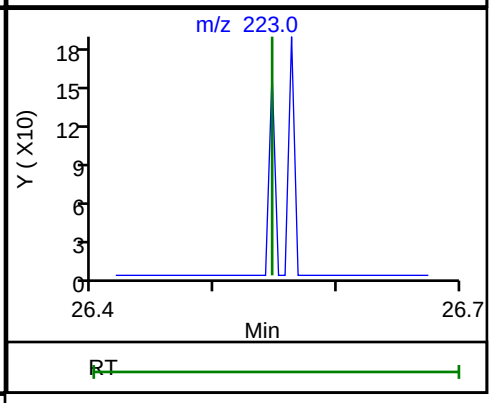
104 Hexachlorobutadiene, CAS: 87-68-3

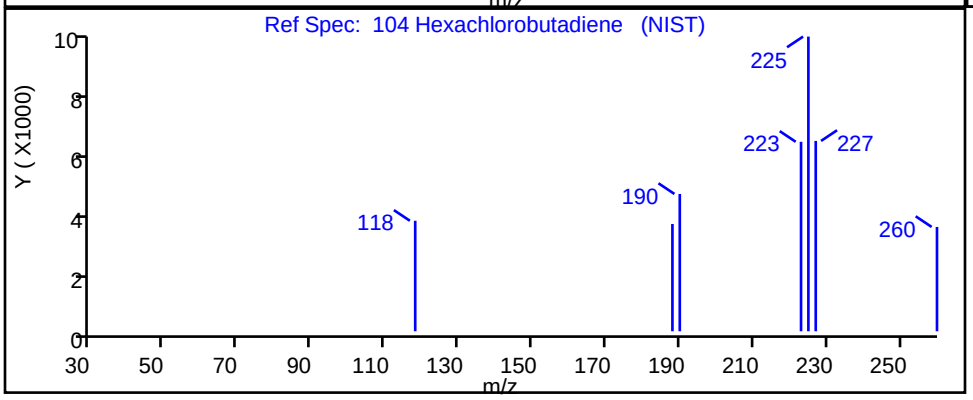
Processing Results











RT	Mass	Response	Amount
26.55	225.00	421	0.005064
26.55	223.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:35:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

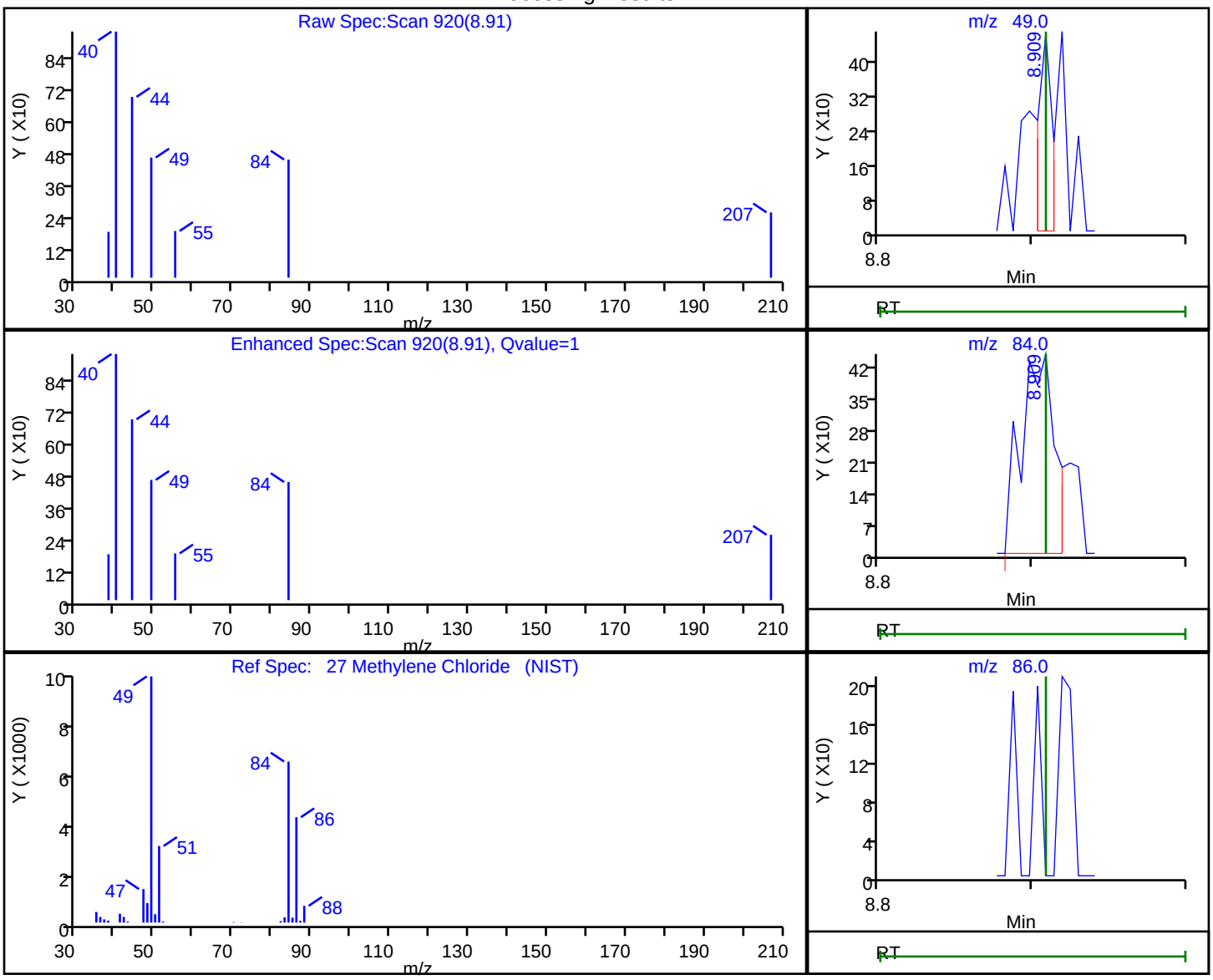
User Disabled Compound Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
8.91	49.00	296	0.005557
8.91	84.00	692	
8.91	86.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:28:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

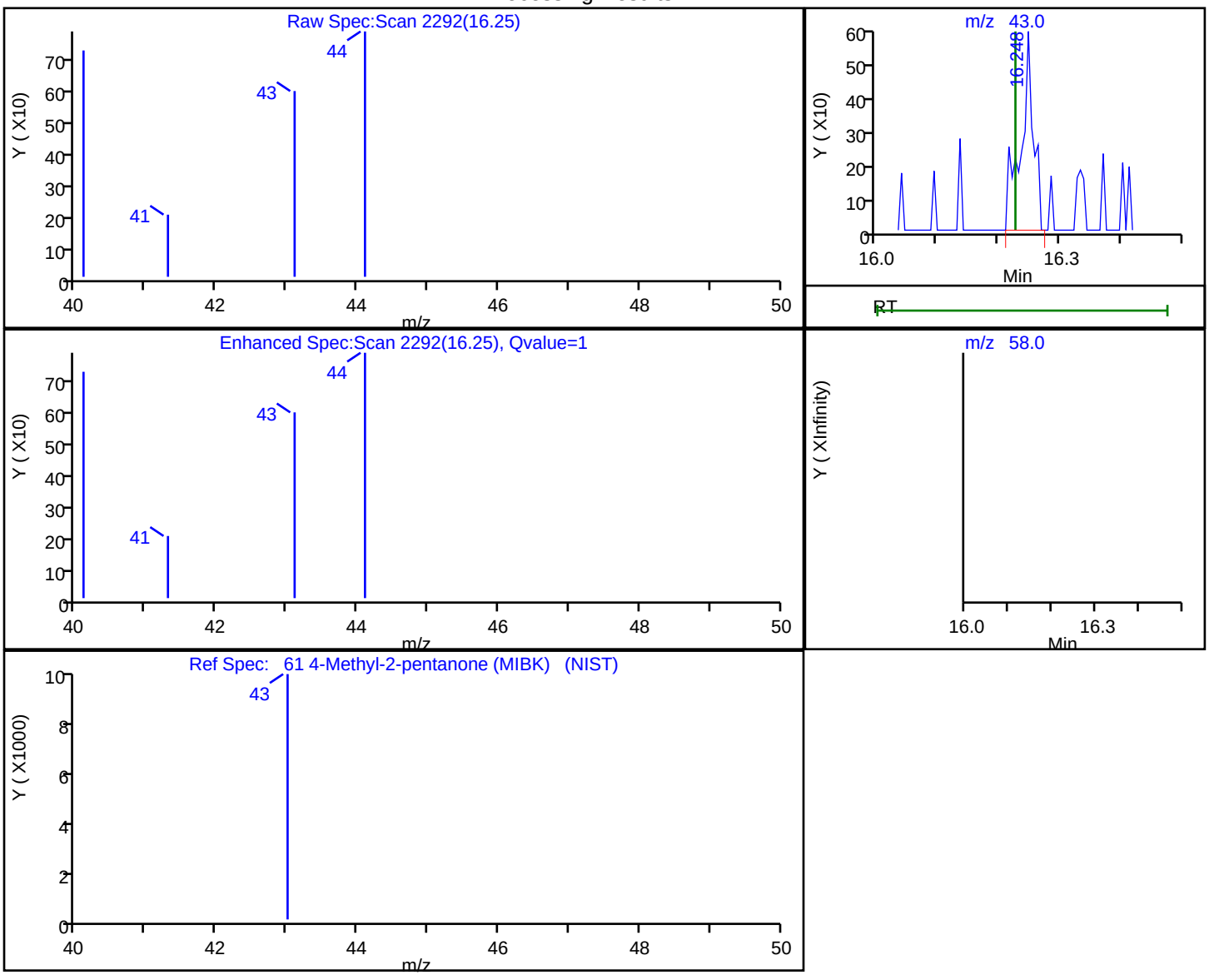
User Disabled Compound Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
16.25	43.00	870	0.007732
16.23	58.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:30:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

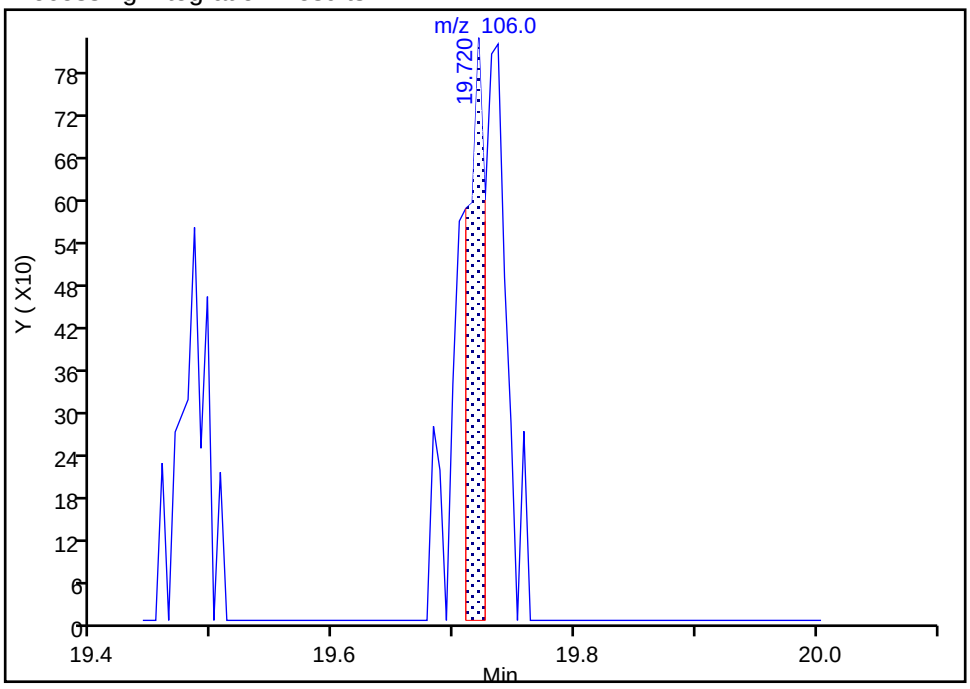
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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

Signal: 1

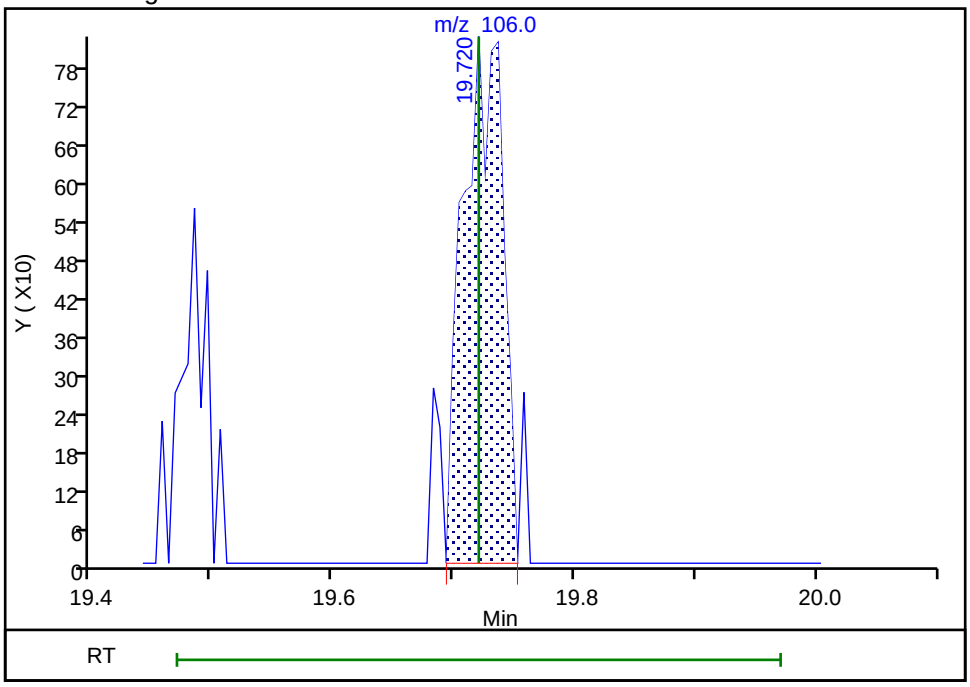
Processing Integration Results

RT: 19.72
Area: 834
Amount: 0.011082
Amount Units: ppb v/v



Manual Integration Results

RT: 19.72
Area: 1889
Amount: 0.025101
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:32:23

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

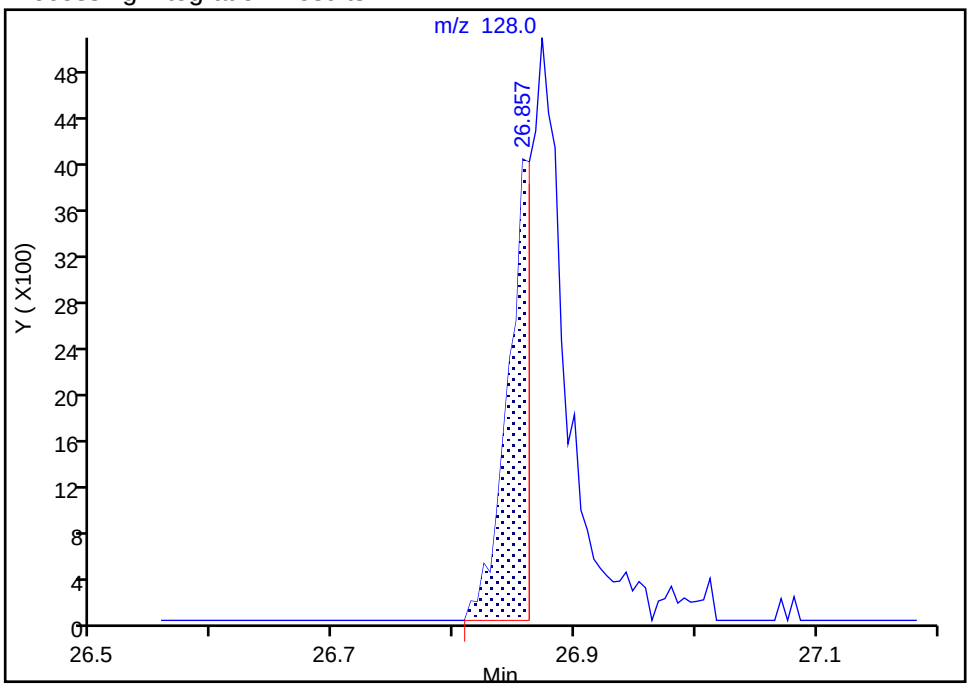
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

105 Naphthalene, CAS: 91-20-3

Signal: 1

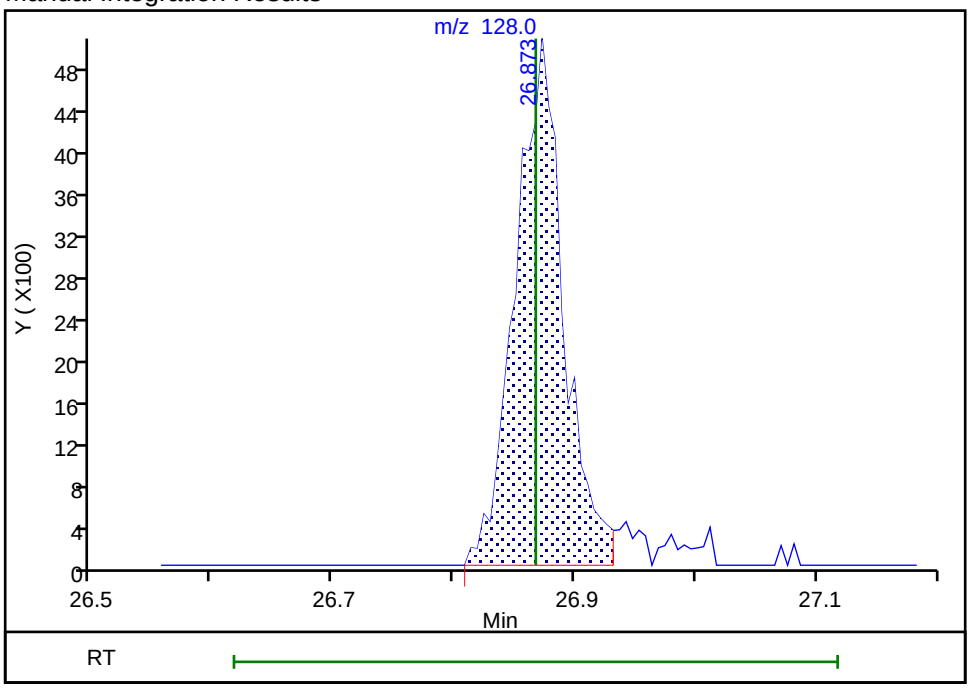
Processing Integration Results

RT: 26.86
Area: 5384
Amount: 0.031852
Amount Units: ppb v/v



Manual Integration Results

RT: 26.87
Area: 14117
Amount: 0.083517
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:35:12

Audit Action: Manually Integrated Audit Reason: Assign Peak

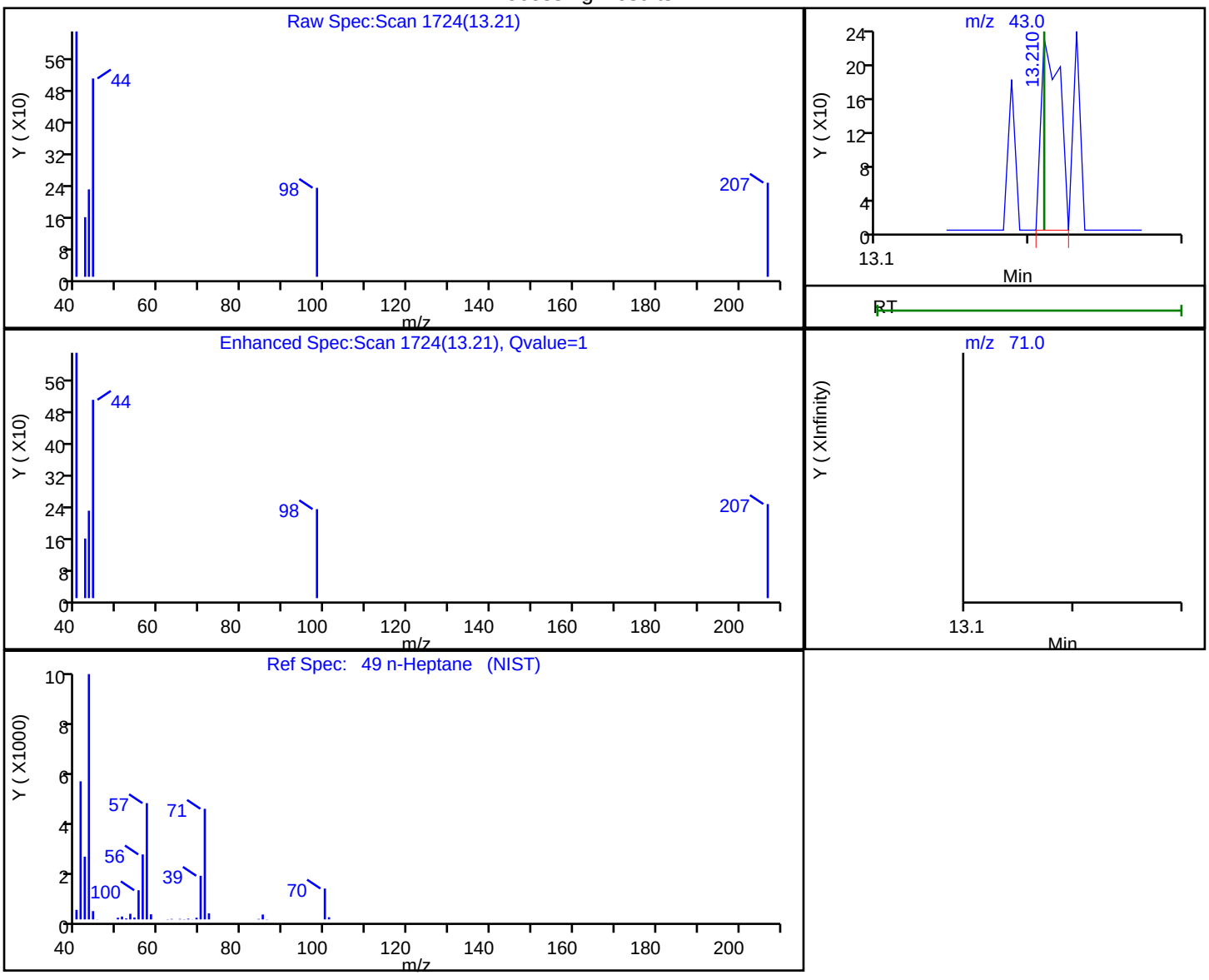
User Disabled Compound Report

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

49 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
13.21	43.00	189	0.002120
13.21	71.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:29:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

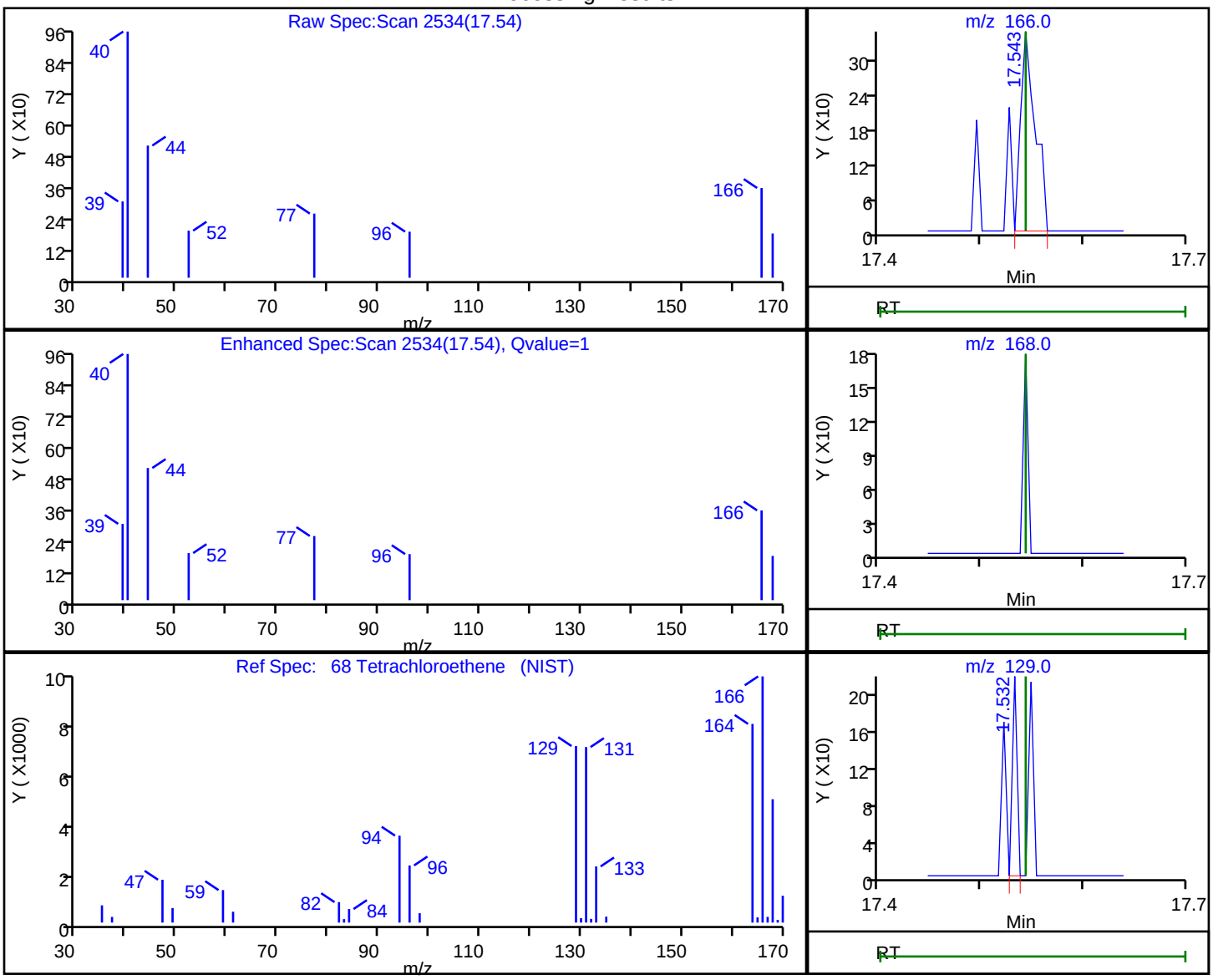
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

68 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
17.54	166.00	345	0.004871
17.53	129.00	69	
17.54	168.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:31:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

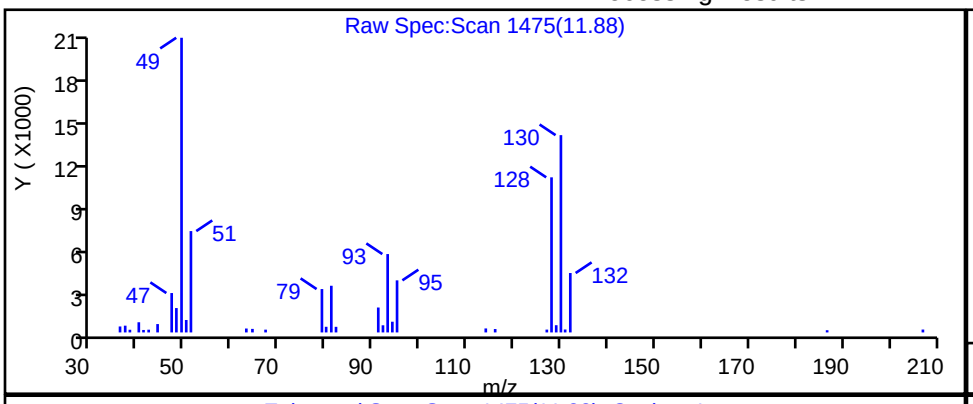
User Disabled Compound Report

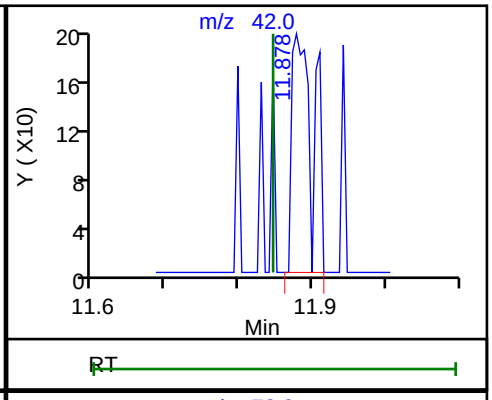
TestAmerica Burlington

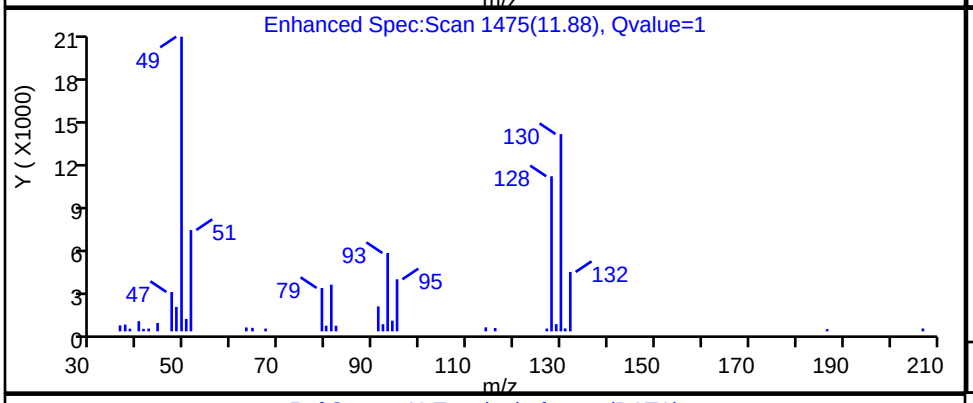
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

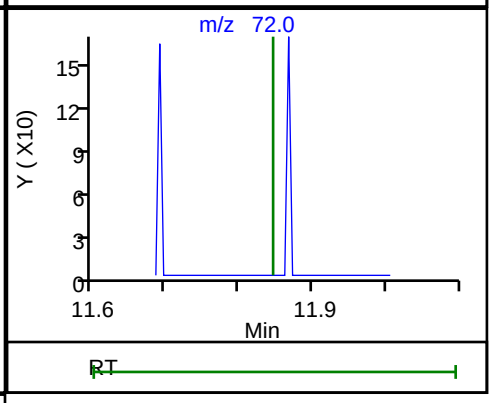
41 Tetrahydrofuran, CAS: 109-99-9

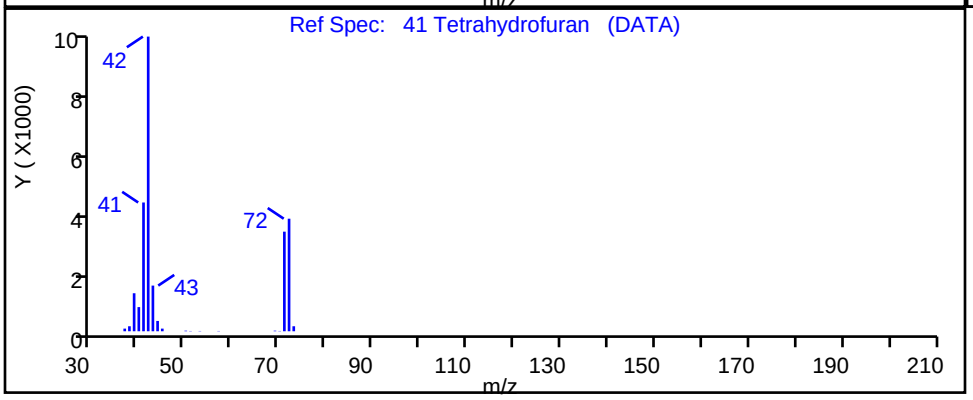
Processing Results











RT	Mass	Response	Amount
11.88	42.00	390	0.007722
11.85	72.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:29:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

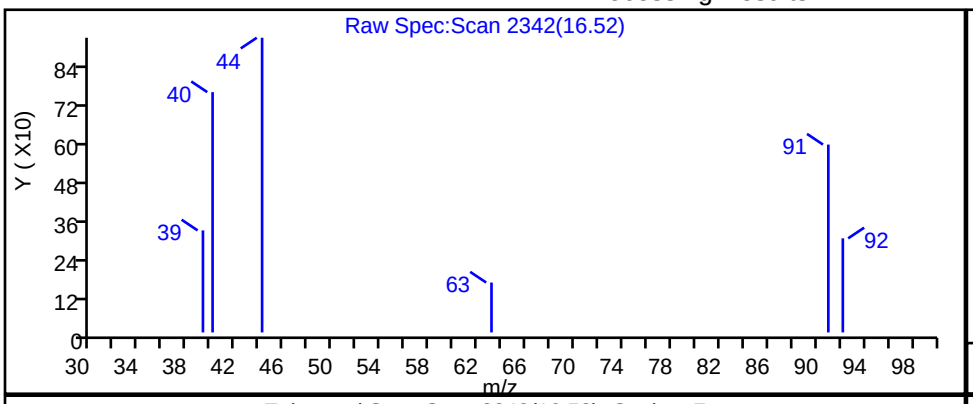
User Disabled Compound Report

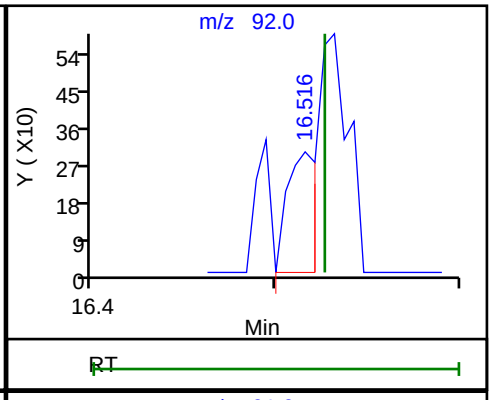
TestAmerica Burlington

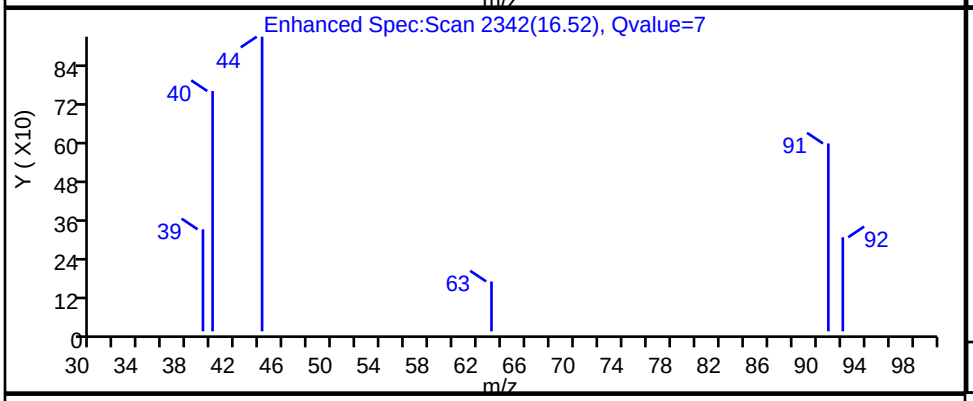
Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

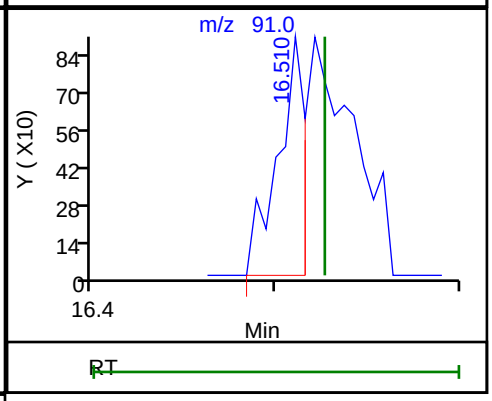
65 Toluene, CAS: 108-88-3

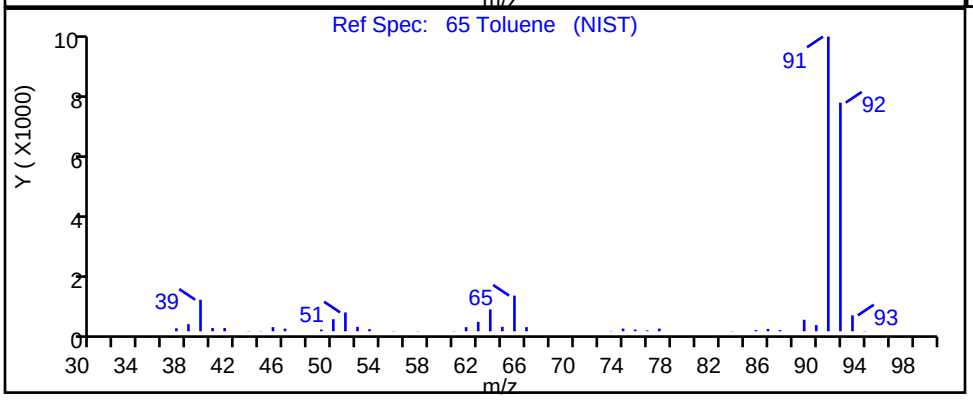
Processing Results











RT	Mass	Response	Amount
16.52	92.00	330	0.003527
16.51	91.00	927	

Reviewer: bunmaa, 13-Dec-2018 12:30:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

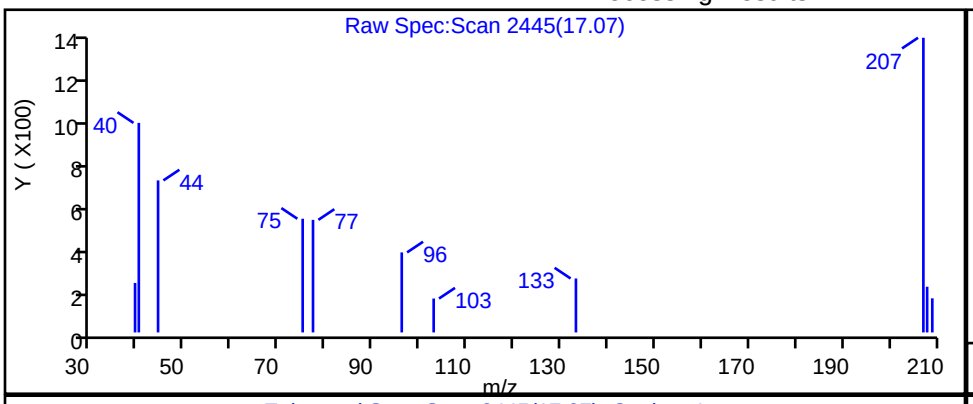
User Disabled Compound Report

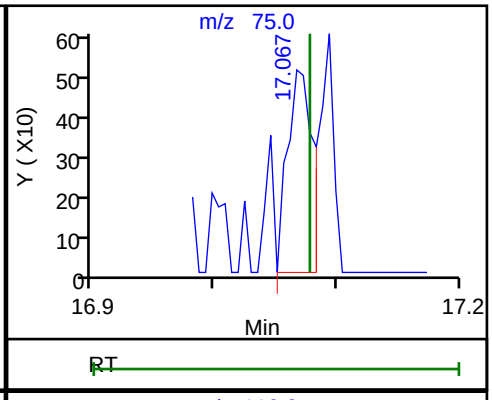
TestAmerica Burlington

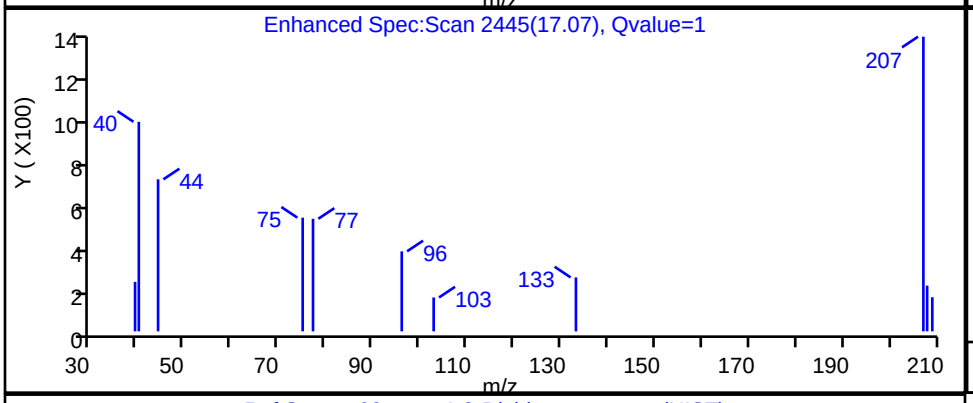
Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D
Injection Date: 12-Dec-2018 16:19:30 Instrument ID: CHX.i
Lims ID: mb
Client ID:
Operator ID: GGG ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

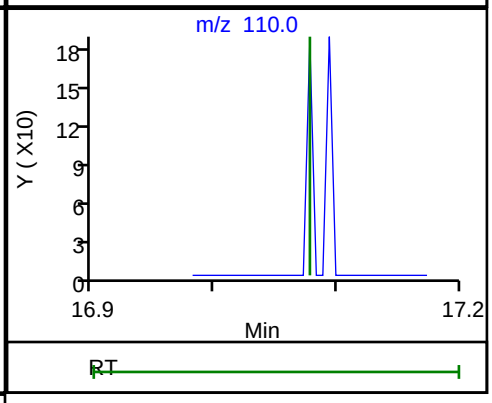
66 trans-1,3-Dichloropropene, CAS: 10061-02-6

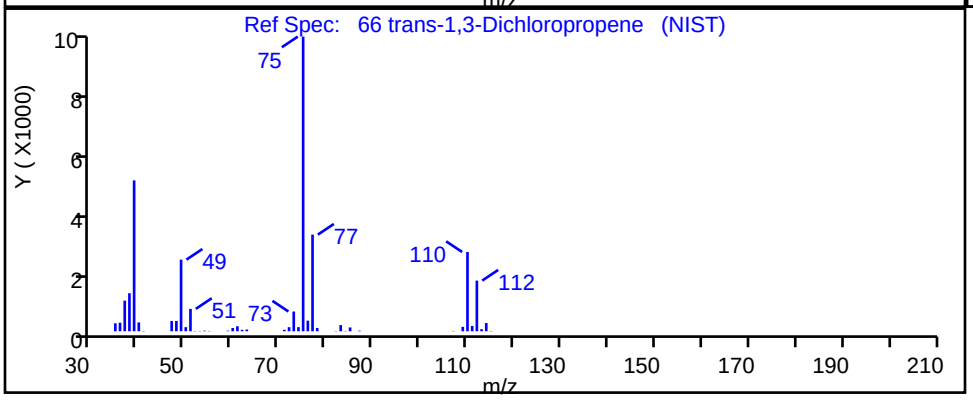
Processing Results











RT	Mass	Response	Amount
17.07	75.00	733	0.009739
17.08	110.00	0	

Reviewer: bunmaa, 13-Dec-2018 12:31:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

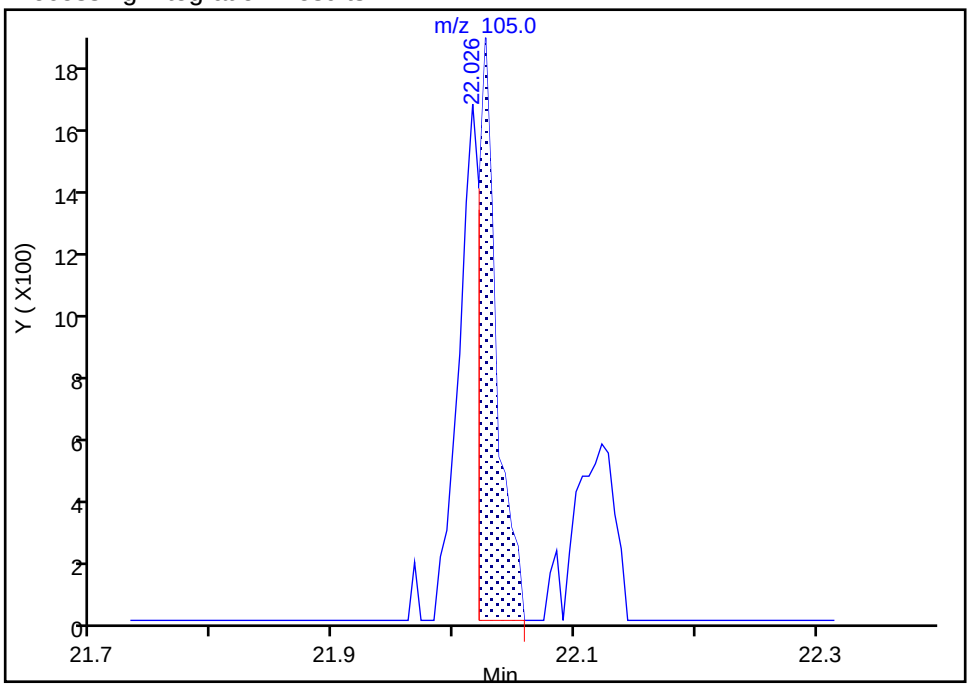
Data File:	\\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-04.D				
Injection Date:	12-Dec-2018 16:19:30	Instrument ID:	CHX.i		
Lims ID:	mb				
Client ID:					
Operator ID:	GGG	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

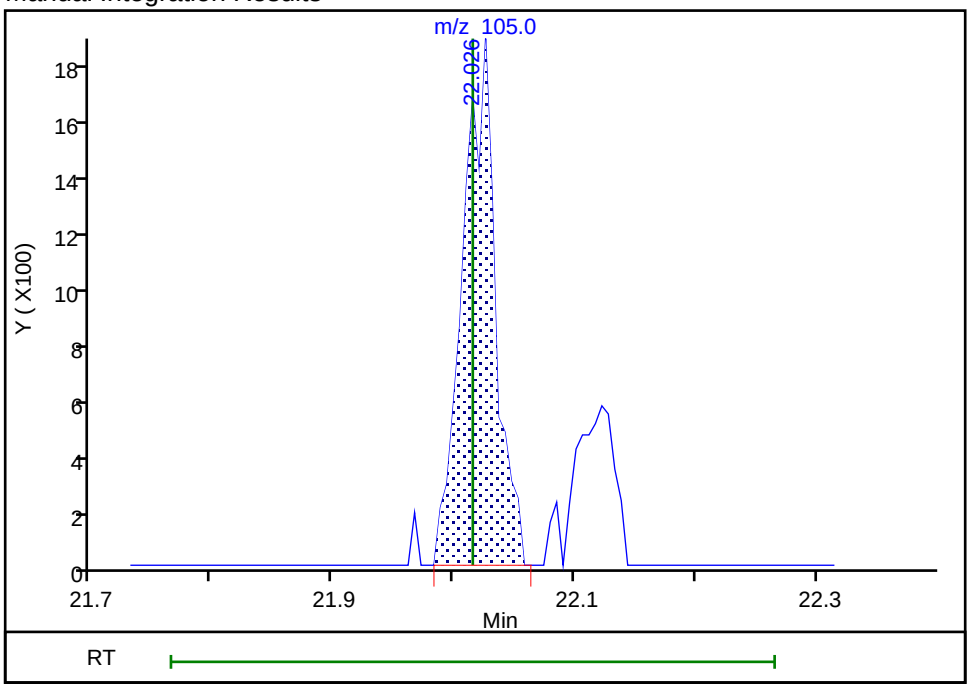
Processing Integration Results

RT: 22.03
Area: 1956
Amount: 0.009181
Amount Units: ppb v/v



Manual Integration Results

RT: 22.03
Area: 3528
Amount: 0.016559
Amount Units: ppb v/v



Reviewer: bunmaa, 13-Dec-2018 12:33:18

Audit Action: Manually Integrated Audit Reason: Assign Peak

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: Lab Sample ID: LCS 200-138095/3

Matrix: Air Lab File ID: 33669-03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 12/12/2018 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 138095 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	24.9		12	6.2
71-43-2	Benzene	30.3		0.64	0.23
75-25-2	Bromoform	107		2.1	0.89
74-83-9	Bromomethane	36.4		0.78	0.24
106-99-0	Butadiene	21.2		0.44	0.14
78-93-3	2-Butanone (MEK)	27.5		1.5	0.59
75-15-0	Carbon disulfide	30.6		1.6	0.37
56-23-5	Carbon tetrachloride	56.3		1.3	0.15
108-90-7	Chlorobenzene	45.0		0.92	0.18
124-48-1	Chlorodibromomethane	87.3		1.7	0.60
75-00-3	Chloroethane	26.4		1.3	0.55
67-66-3	Chloroform	44.8		0.98	0.25
74-87-3	Chloromethane	20.1		1.0	0.52
107-05-1	3-Chloro-1-propene	29.6		1.6	0.85
95-49-8	2-Chlorotoluene	52.4		1.0	0.37
156-59-2	cis-1,2-Dichloroethene	34.0		0.79	0.15
10061-01-5	cis-1,3-Dichloropropene	42.4		0.91	0.44
110-82-7	Cyclohexane	33.4		0.69	0.22
541-73-1	1,3-Dichlorobenzene	58.9		1.2	0.49
106-46-7	1,4-Dichlorobenzene	58.1		1.2	0.39
95-50-1	1,2-Dichlorobenzene	58.5		1.2	0.43
75-27-4	Dichlorobromomethane	66.8		1.3	0.63
75-71-8	Dichlorodifluoromethane	50.4		2.5	0.99
75-34-3	1,1-Dichloroethane	37.0		0.81	0.11
107-06-2	1,2-Dichloroethane	38.5		0.81	0.25
75-35-4	1,1-Dichloroethene	31.9		0.79	0.13
78-87-5	1,2-Dichloropropane	45.3		0.92	0.55
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	71.8		1.4	0.48
123-91-1	1,4-Dioxane	33.2		18	4.7
64-17-5	Ethanol	33.4		9.4	2.3
100-41-4	Ethylbenzene	43.3		0.87	0.32
106-93-4	Ethylene Dibromide	78.4		1.5	0.53
622-96-8	4-Ethyltoluene	49.3		0.98	0.34
87-68-3	Hexachlorobutadiene	93.4		2.1	0.87
110-54-3	Hexane	34.4		0.70	0.56

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

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Client Sample ID: Lab Sample ID: LCS 200-138095/3

Matrix: Air Lab File ID: 33669-03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 12/12/2018 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 138095 Units: ug/m3

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
540-84-1	Isooctane	45.4		0.93	0.41
67-63-0	Isopropyl alcohol	22.1		12	4.4
75-09-2	Methylene Chloride	32.0		1.7	0.69
80-62-6	Methyl methacrylate	41.8		2.0	0.90
108-10-1	4-Methyl-2-pentanone (MIBK)	40.7		2.0	1.5
75-65-0	2-Methyl-2-propanol	29.0		15	4.5
1634-04-4	Methyl tert-butyl ether	33.2		0.72	0.22
179601-23-1	m-Xylene & p-Xylene	86.8		2.2	0.30
91-20-3	Naphthalene	44.2		2.6	1.6
142-82-5	n-Heptane	39.6		0.82	0.57
95-47-6	o-Xylene	43.8		0.87	0.31
100-42-5	Styrene	42.6		0.85	0.37
98-06-6	tert-Butylbenzene	53.2		1.1	0.32
79-34-5	1,1,2,2-Tetrachloroethane	71.0		1.4	0.52
127-18-4	Tetrachloroethene	63.2		1.4	0.20
109-99-9	Tetrahydrofuran	32.6		15	7.7
108-88-3	Toluene	37.9		0.75	0.26
156-60-5	trans-1,2-Dichloroethene	38.0		0.79	0.29
10061-02-6	trans-1,3-Dichloropropene	46.3		0.91	0.54
120-82-1	1,2,4-Trichlorobenzene	62.9		3.7	1.8
71-55-6	1,1,1-Trichloroethane	50.8		1.1	0.37
79-00-5	1,1,2-Trichloroethane	54.4		1.1	0.43
79-01-6	Trichloroethene	48.7		1.1	0.16
75-69-4	Trichlorofluoromethane	52.6		1.1	0.35
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	65.3		1.5	0.24
108-67-8	1,3,5-Trimethylbenzene	50.5		0.98	0.29
95-63-6	1,2,4-Trimethylbenzene	49.1		0.98	0.39
593-60-2	Vinyl bromide	42.3		0.87	0.24
75-01-4	Vinyl chloride	25.1		0.51	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-03.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 12-Dec-2018 15:27:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0033669-003
Operator ID: GGG Instrument ID: CHX.i

Method: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Dec-2018 12:25:19 Calib Date: 08-Dec-2018 14:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20181207-33587.b\33526-16.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX0307

First Level Reviewer: bunmaa Date: 13-Dec-2018 12:26:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41	4.099	4.088	0.011	99	280578	10.0	10.3	
2 Dichlorodifluoromethane	85	4.185	4.179	0.006	99	932611	10.0	10.2	
3 Chlorodifluoromethane	51	4.249	4.244	0.005	99	590611	10.0	10.2	
4 1,2-Dichloro-1,1,2,2-tetra	85	4.522	4.516	0.006	95	1063630	10.0	10.3	
5 Chloromethane	50	4.709	4.704	0.005	99	336795	10.0	9.72	
6 Butane	43	4.939	4.928	0.011	97	807484	10.0	10.8	
7 Vinyl chloride	62	4.998	4.987	0.011	98	557297	10.0	9.83	
8 Butadiene	54	5.089	5.078	0.011	94	444394	10.0	9.58	
10 Bromomethane	94	5.881	5.870	0.011	99	377363	10.0	9.38	
9 BFB									
11 Chloroethane	64	6.137	6.127	0.010	99	245311	10.0	10.0	
12 2-Methylbutane	43	6.202	6.196	0.006	92	530149	10.0	9.68	
13 Vinyl bromide	106	6.560	6.549	0.011	97	378632	10.0	9.66	
14 Trichlorofluoromethane	101	6.656	6.646	0.010	99	940448	10.0	9.37	
16 Pentane	43	6.790	6.785	0.005	97	823121	10.0	9.99	
17 Ethanol	45	7.229	7.229	0.000	100	334613	15.0	17.8	
18 Ethyl ether	59	7.325	7.320	0.005	92	356181	10.0	10.3	
19 Acrolein	56	7.732	7.726	0.006	50	182768	10.0	10.4	
20 1,1,2-Trichloro-1,2,2-trif	101	7.737	7.732	0.005	92	785445	10.0	8.51	
21 1,1-Dichloroethene	96	7.807	7.801	0.005	97	392356	10.0	8.06	
22 Acetone	43	8.047	8.042	0.005	97	723647	10.0	10.5	
23 Carbon disulfide	76	8.224	8.218	0.006	100	1219489	10.0	9.83	
24 Isopropyl alcohol	45	8.315	8.315	0.000	100	635109	10.0	9.00	
25 3-Chloro-1-propene	41	8.604	8.598	0.006	99	521615	10.0	9.45	
26 Acetonitrile	41	8.753	8.753	0.000	97	388461	10.0	11.2	
27 Methylene Chloride	49	8.909	8.909	0.000	95	522062	10.0	9.20	
28 2-Methyl-2-propanol	59	9.106	9.107	-0.001	97	859062	10.0	9.56	
29 Methyl tert-butyl ether	73	9.310	9.310	0.000	97	1224969	10.0	9.20	
31 trans-1,2-Dichloroethene	61	9.358	9.353	0.005	97	692448	10.0	9.60	
32 Acrylonitrile	53	9.524	9.518	0.006	93	378939	10.0	10.2	
S 30 1,2-Dichloroethene, Total	61				0		20.0	18.2	
33 Hexane	57	9.732	9.732	0.000	93	768645	10.0	9.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63	10.262	10.262	0.000	99	836815	10.0	9.13	
35 Vinyl acetate	43	10.316	10.316	0.000	99	1213844	10.0	10.5	
37 cis-1,2-Dichloroethene	96	11.380	11.375	0.005	96	447951	10.0	8.57	
38 2-Butanone (MEK)	72	11.418	11.418	0.000	98	261075	10.0	9.31	
39 Ethyl acetate	88	11.444	11.444	0.000	98	48230	10.0	9.86	
* 40 Chlorobromomethane	128	11.840	11.840	0.000	97	294471	10.0	10.0	
41 Tetrahydrofuran	42	11.846	11.846	0.000	91	573892	10.0	11.0	
42 Chloroform	83	11.953	11.953	0.000	98	888644	10.0	9.18	
43 Cyclohexane	84	12.204	12.204	0.000	97	632380	10.0	9.70	
44 1,1,1-Trichloroethane	97	12.231	12.225	0.006	97	872367	10.0	9.30	
45 Carbon tetrachloride	117	12.471	12.466	0.005	96	820023	10.0	8.95	
46 Isooctane	57	12.857	12.851	0.006	97	2262217	10.0	9.71	
47 Benzene	78	12.915	12.916	-0.001	99	1367235	10.0	9.49	
48 1,2-Dichloroethane	62	13.087	13.087	0.000	96	629296	10.0	9.50	
49 n-Heptane	43	13.210	13.210	0.000	92	887621	10.0	9.67	
* 50 1,4-Difluorobenzene	114	13.680	13.681	0.000	97	1289813	10.0	10.0	
52 n-Butanol	56	14.007	14.007	0.000	91	306791	10.0	10.2	
A 51 GRO	1	14.090	(6.186-21.993)		0	195057499	10.0	0	
53 Trichloroethene	95	14.119	14.114	0.005	93	598391	10.0	9.06	
54 1,2-Dichloropropane	63	14.633	14.627	0.006	88	571948	10.0	9.79	
55 Methyl methacrylate	69	14.745	14.745	0.000	94	555005	10.0	10.2	
56 1,4-Dioxane	88	14.820	14.820	0.000	99	268276	10.0	9.21	
57 Dibromomethane	174	14.868	14.868	0.000	92	464541	10.0	9.26	
58 Dichlorobromomethane	83	15.125	15.125	0.000	98	983165	10.0	9.97	
A 59 TVOC as Toluene	92	15.721	(4.078-27.364)		0	319421804	10.0	0	
60 cis-1,3-Dichloropropene	75	15.976	15.976	0.000	96	780160	10.0	9.34	
61 4-Methyl-2-pentanone (MIBK	43	16.232	16.227	0.005	97	1151094	10.0	9.94	
65 Toluene	92	16.521	16.527	-0.006	92	976079	10.0	10.1	
64 n-Octane	43	16.543	16.537	0.006	90	1258964	10.0	10.1	
66 trans-1,3-Dichloropropene	75	17.078	17.078	0.000	99	791153	10.0	10.2	
67 1,1,2-Trichloroethane	83	17.436	17.436	0.000	98	532394	10.0	9.97	
68 Tetrachloroethene	166	17.543	17.543	0.000	93	684146	10.0	9.31	
69 2-Hexanone	43	17.848	17.843	0.005	95	1069124	10.0	10.1	
71 Chlorodibromomethane	129	18.169	18.169	0.000	95	840397	10.0	10.2	
72 Ethylene Dibromide	107	18.442	18.436	0.006	98	838447	10.0	10.2	
* 74 Chlorobenzene-d5	117	19.292	19.292	0.000	91	1132307	10.0	10.0	
75 Chlorobenzene	112	19.346	19.346	0.000	89	1170498	10.0	9.78	
76 Ethylbenzene	91	19.480	19.480	0.000	99	2051979	10.0	9.98	
77 n-Nonane	57	19.571	19.571	-0.001	89	1151048	10.0	10.1	
S 73 Xylenes, Total	106				0		30.0	30.1	
78 m-Xylene & p-Xylene	106	19.720	19.720	0.000	0	1559971	20.0	20.0	
79 o-Xylene	106	20.523	20.528	-0.005	98	775726	10.0	10.1	
80 Styrene	104	20.576	20.576	0.000	98	1202679	10.0	10.0	
81 Bromoform	173	20.977	20.983	-0.006	92	696992	10.0	10.4	
82 Isopropylbenzene	105	21.154	21.154	0.000	99	2138384	10.0	9.82	
84 1,1,2,2-Tetrachloroethane	83	21.780	21.780	0.000	99	1293093	10.0	10.3	
85 N-Propylbenzene	91	21.839	21.839	0.000	98	2737031	10.0	10.1	
86 1,2,3-Trichloropropane	75	21.876	21.876	0.000	96	1012593	10.0	9.93	
87 n-Decane	57	21.983	21.983	0.000	93	1449396	10.0	10.2	
90 1,3,5-Trimethylbenzene	105	22.015	22.015	0.000	85	2268087	10.0	10.3	
89 2-Chlorotoluene	91	22.037	22.037	0.000	97	1996871	10.0	10.1	
88 4-Ethyltoluene	105	22.117	22.117	0.000	92	1838835	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 Alpha Methyl Styrene	118	22.475	22.475	0.000	82	895301	10.0	9.86	
92 tert-Butylbenzene	119	22.593	22.588	0.005	90	1655880	10.0	9.70	
93 1,2,4-Trimethylbenzene	105	22.684	22.684	0.000	99	1838642	10.0	9.99	
94 sec-Butylbenzene	105	22.903	22.903	0.000	97	2605257	10.0	9.77	
95 4-Isopropyltoluene	119	23.096	23.096	0.000	96	2108470	10.0	9.72	
96 1,3-Dichlorobenzene	146	23.139	23.139	0.000	97	1129008	10.0	9.80	
97 1,4-Dichlorobenzene	146	23.272	23.273	-0.001	89	1073248	10.0	9.67	
98 Benzyl chloride	91	23.476	23.470	0.006	97	1439354	10.0	10.1	
100 n-Butylbenzene	91	23.674	23.674	0.000	98	2289593	10.0	10.2	
99 Undecane	57	23.679	23.679	0.000	94	1679917	10.0	10.7	
101 1,2-Dichlorobenzene	146	23.818	23.813	0.005	91	1094590	10.0	9.72	
102 Dodecane	57	25.284	25.289	-0.005	96	1428959	10.0	10.2	
103 1,2,4-Trichlorobenzene	180	26.365	26.365	0.000	94	616943	10.0	8.47	
104 Hexachlorobutadiene	225	26.547	26.547	0.000	93	755040	10.0	8.76	
105 Naphthalene	128	26.868	26.868	0.000	97	1479175	10.0	8.44	
106 1,2,3-Trichlorobenzene	180	27.354	27.354	0.000	95	596427	10.0	7.86	

Reagents:

ATTO15LCSW_00790	Amount Added: 200.00	Units: mL	
ATTO15XISs_00002	Amount Added: 20.00	Units: mL	Run Reagent

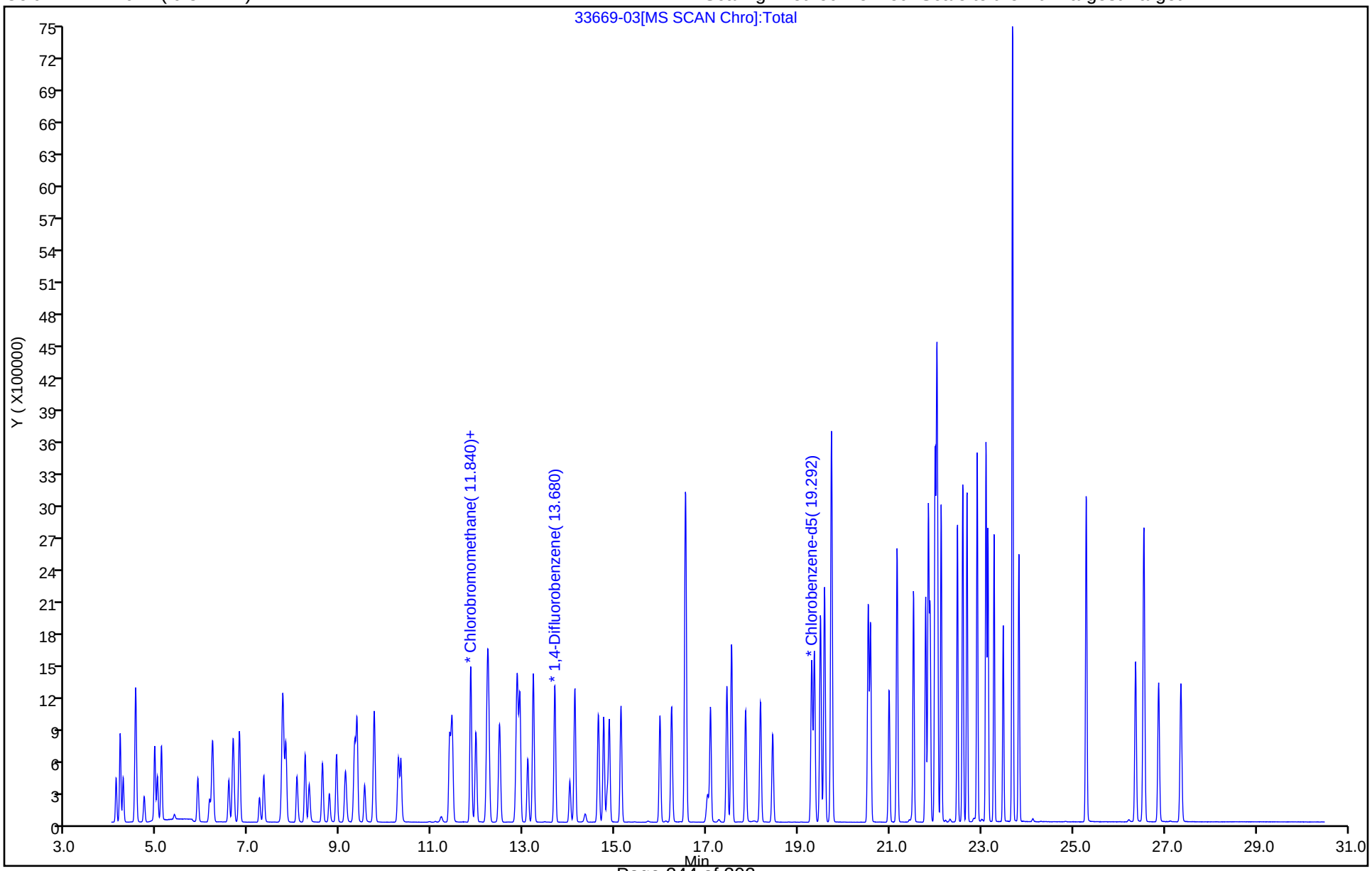
Report Date: 13-Dec-2018 12:26:28 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20181212-33669.b\33669-03.D

Injection Date:	12-Dec-2018 15:27:30	Instrument ID:	CHX.i	Operator ID:	GGG
Lims ID:	lcs			Worklist Smp#:	3
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Instrument ID: CHX.i Start Date: 12/07/2018 18:39

Analysis Batch Number: 137920 End Date: 12/08/2018 15:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-137920/1		12/07/2018 18:39	1	33587-C1.D	RTX-624 0.32(mm)
ZZZZZ		12/07/2018 20:55	1		RTX-624 0.32(mm)
ZZZZZ		12/07/2018 21:47	1		RTX-624 0.32(mm)
IC 200-137920/4		12/07/2018 22:39	1	33526-04.D	RTX-624 0.32(mm)
IC 200-137920/5		12/07/2018 23:32	1	33526-05.D	RTX-624 0.32(mm)
IC 200-137920/6		12/08/2018 00:25	1	33526-06.D	RTX-624 0.32(mm)
IC 200-137920/7		12/08/2018 01:16	1	33526-07.D	RTX-624 0.32(mm)
ICIS 200-137920/8		12/08/2018 02:09	1	33526-08.D	RTX-624 0.32(mm)
ZZZZZ		12/08/2018 03:00	1		RTX-624 0.32(mm)
ZZZZZ		12/08/2018 03:53	1		RTX-624 0.32(mm)
IC 200-137920/11		12/08/2018 04:46	1	33526-11.D	RTX-624 0.32(mm)
VIBLK 200-137920/12		12/08/2018 05:39	1		RTX-624 0.32(mm)
VIBLK 200-137920/13		12/08/2018 06:32	1		RTX-624 0.32(mm)
VIBLK 200-137920/14		12/08/2018 07:25	1		RTX-624 0.32(mm)
IC 200-137920/15		12/08/2018 13:19	1	33526-15.D	RTX-624 0.32(mm)
IC 200-137920/16		12/08/2018 14:05	1	33526-16.D	RTX-624 0.32(mm)
ZZZZZ		12/08/2018 14:57	1		RTX-624 0.32(mm)
ICV 200-137920/18		12/08/2018 15:50	1	33526-18.D	RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Instrument ID: CHX.i Start Date: 12/12/2018 13:51

Analysis Batch Number: 138095 End Date: 12/13/2018 10:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-138095/1		12/12/2018 13:51	1	33669-01.D	RTX-624 0.32(mm)
CCVIS 200-138095/2		12/12/2018 14:33	1	33669-02.D	RTX-624 0.32(mm)
LCS 200-138095/3		12/12/2018 15:27	1	33669-03.D	RTX-624 0.32(mm)
MB 200-138095/4		12/12/2018 16:19	1	33669-04.D	RTX-624 0.32(mm)
ZZZZZ		12/12/2018 17:27	0.2		RTX-624 0.32(mm)
200-46373-1		12/12/2018 18:17	10	33669-06.D	RTX-624 0.32(mm)
ZZZZZ		12/12/2018 19:08	10		RTX-624 0.32(mm)
ZZZZZ		12/12/2018 20:02	1		RTX-624 0.32(mm)
ZZZZZ		12/12/2018 21:01	1		RTX-624 0.32(mm)
ZZZZZ		12/12/2018 21:51	2.98		RTX-624 0.32(mm)
ZZZZZ		12/12/2018 22:45	1		RTX-624 0.32(mm)
ZZZZZ		12/12/2018 23:35	5		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 00:26	2		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 01:18	2		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 02:11	1		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 03:04	1		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 03:57	1		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 04:52	1		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 05:46	1		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 06:36	10		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 07:28	2		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 08:18	25		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 09:12	1		RTX-624 0.32(mm)
ZZZZZ		12/13/2018 10:05	1		RTX-624 0.32(mm)

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Batch Number: 137920 Batch Start Date: 12/07/18 18:39 Batch Analyst: Guazzoni, Gabriel G

Batch Method: TO-15 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	ATTO15CAL1w 00196	ATTO15CAL2w 00271
BFB 200-137920/1		TO-15		1	1	200 mL	200 mL		
IC 200-137920/4		TO-15		1	1	35 mL	200 mL	35 mL	
IC 200-137920/5		TO-15		1	1	200 mL	200 mL	200 mL	
IC 200-137920/6		TO-15		1	1	200 mL	200 mL		200 mL
IC 200-137920/7		TO-15		1	1	200 mL	200 mL		
ICIS 200-137920/8		TO-15		1	1	200 mL	200 mL		
IC 200-137920/11		TO-15		1	1	200 mL	200 mL		
IC 200-137920/15		TO-15		1	1	200 mL	200 mL		
IC 200-137920/16		TO-15		1	1	200 mL	200 mL		
ICV 200-137920/18		TO-15		1	1	200 mL	200 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATTO15CAL3w 00206	ATTO15CAL4w 00714	ATTO15CAL6w 00158	ATTO15CAL7w 00079	ATTO15LCSW 00790	ATTO15XISs 00002
BFB 200-137920/1		TO-15							20 mL
IC 200-137920/4		TO-15							20 mL
IC 200-137920/5		TO-15							20 mL
IC 200-137920/6		TO-15							20 mL
IC 200-137920/7		TO-15		200 mL					20 mL
ICIS 200-137920/8		TO-15			200 mL				20 mL
IC 200-137920/11		TO-15					200 mL		20 mL
IC 200-137920/15		TO-15				200 mL			20 mL
IC 200-137920/16		TO-15				150 mL			20 mL
ICV 200-137920/18		TO-15						200 mL	20 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.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Batch Number: 137920 Batch Start Date: 12/07/18 18:39 Batch Analyst: Guazzoni, Gabriel G

Batch Method: TO-15 Batch End Date:

Batch Notes	

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.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46373-1

SDG No.: EJ1815811

Batch Number: 138095 Batch Start Date: 12/12/18 13:51 Batch Analyst: Bunma, Arthit 1

Batch Method: TO-15 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	ATTO15CAL4w 00714	ATTO15LCSW 00790
BFB 200-138095/1		TO-15		1	1	200 mL	200 mL		
CCVIS 200-138095/2		TO-15		1	1	200 mL	200 mL	200 mL	
LCS 200-138095/3		TO-15		1	1	200 mL	200 mL		200 mL
MB 200-138095/4		TO-15		1	1	200 mL	200 mL		
200-46373-A-1	9999-23 VP01-SV01-112020 18	TO-15	T	1	1	20 mL	200 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATTO15XISs 00002					
BFB 200-138095/1		TO-15		20 mL					
CCVIS 200-138095/2		TO-15		20 mL					
LCS 200-138095/3		TO-15		20 mL					
MB 200-138095/4		TO-15		20 mL					
200-46373-A-1	9999-23 VP01-SV01-112020 18	TO-15	T	20 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.

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Oven 3/4	10	26	10/14/2018	SML	1L	6L	Individual	Batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading					Final Reading				
						Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:
1	5909	0.05	.05	0	30.0	G26	10/14/18	1300	WMD	22.0	G26	10/26/18	1515	—	22.0
2	3359	.05	.05	0	30.0	G26	10/15/18	1430	SL	21.0	G26				
3	5947		.05	0	30.0	G26					G26				
4	6323		.05	0	30.0	G26					G26				
5	5841		.05	0	30.0	G26					G26				
6	5928		.11	.06	30.0	G26					G26				
7	6382		.05	0	30.0	G26					G26				
8	6349		.16	.11	30.0	G26					G26				
9	6296		.05	0	30.0	G26					G26				
10	4260		.05	0	30.0	G26					G26				
11	4656		.08	.03	30.0	G26					G26				
12	6429	—	.05	0	30.0	G26	—	—	—	—	G26	—	—	—	—

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐ TO15 Routine ☐ TO15 LL ☒ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review: Limited	Review Date	Reviewer
5909	10/16/18	32636	AB1			XXXX			10/16/18	VTP

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

Page 220 of 302

Form ID: FAI023:11
Revision Date: 11-15-2017

TestAmerica Burlington

200-45713-A-1
5909
Location: Air-Storage
Bottle: Summa Canister 1L
Sampled: 10/14/2018 12:00 AM 200-1208409

Loc: 200
45713
#1
A

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 32636-06.D

Lab ID: LCS 200-135228/6 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	12.2	122	58-129	
Dichlorodifluoromethane	10.0	11.0	110	68-128	
Freon 22	10.0	11.4	114	64-128	
1,2-Dichlorotetrafluoroethane	10.0	10.5	105	78-138	
Chloromethane	10.0	10.9	109	57-126	
n-Butane	10.0	10.8	108	56-130	
Vinyl chloride	10.0	11.0	110	62-125	
1,3-Butadiene	10.0	10.9	109	59-125	
Bromomethane	10.0	9.78	98	68-128	
Chloroethane	10.0	9.99	100	65-125	
Bromoethene(Vinyl Bromide)	10.0	9.73	97	67-127	
Trichlorofluoromethane	10.0	10.1	101	67-127	
Ethanol	15.0	10.9	72	28-168	
Freon TF	10.0	9.59	96	68-128	
1,1-Dichloroethene	10.0	10.1	101	67-127	
Acetone	10.0	10.3	103	64-136	
Isopropyl alcohol	10.0	10.4	104	55-124	
Carbon disulfide	10.0	9.91	99	81-141	
3-Chloropropene	10.0	10.5	105	53-133	
Methylene Chloride	10.0	10.2	102	62-122	
tert-Butyl alcohol	10.0	9.88	99	64-124	
Methyl tert-butyl ether	10.0	10.0	100	67-127	
trans-1,2-Dichloroethene	10.0	10.1	101	72-132	
n-Hexane	10.0	9.09	91	71-131	
1,1-Dichloroethane	10.0	10.6	106	66-126	
Vinyl acetate	10.0	10.3	103	62-130	
Ethyl acetate	10.0	9.49	95	75-135	
Methyl Ethyl Ketone	10.0	9.65	97	62-122	
cis-1,2-Dichloroethene	10.0	10.0	100	67-127	
Chloroform	10.0	10.1	101	69-129	
Tetrahydrofuran	10.0	10.5	105	61-136	
1,1,1-Trichloroethane	10.0	9.94	99	70-130	
Cyclohexane	10.0	9.70	97	69-129	
Carbon tetrachloride	10.0	10.4	104	62-143	
2,2,4-Trimethylpentane	10.0	10.1	101	67-127	
Benzene	10.0	9.61	96	67-127	
1,2-Dichloroethane	10.0	10.2	102	67-132	
n-Heptane	10.0	10.5	105	62-130	
Trichloroethene	10.0	9.78	98	68-128	
Methyl methacrylate	10.0	9.76	98	70-130	
1,2-Dichloropropane	10.0	10.0	100	67-127	
1,4-Dioxane	10.0	8.61	86	66-132	

Column to be used to flag recovery and RPD values

FORM III TO-15

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 32636-06.D

Lab ID: LCS 200-135228/6 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	9.60	96	69-129	
cis-1,3-Dichloropropene	10.0	10.0	100	70-130	
methyl isobutyl ketone	10.0	10.0	100	62-130	
Toluene	10.0	9.92	99	67-127	
trans-1,3-Dichloropropene	10.0	10.2	102	69-129	
1,1,2-Trichloroethane	10.0	9.90	99	69-129	
Tetrachloroethene	10.0	9.58	96	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.75	97	61-127	
Dibromochloromethane	10.0	8.25	82	66-130	
1,2-Dibromoethane	10.0	9.70	97	70-130	
Chlorobenzene	10.0	9.69	97	68-128	
Ethylbenzene	10.0	9.82	98	68-128	
m,p-Xylene	20.0	20.1	100	68-128	
Xylene, o-	10.0	9.87	99	67-127	
Styrene	10.0	9.88	99	68-128	
Bromoform	10.0	4.62	46	34-170	
Cumene	10.0	9.92	99	67-127	
1,1,2,2-Tetrachloroethane	10.0	10.0	100	69-129	
n-Propylbenzene	10.0	10.1	101	67-127	
4-Ethyltoluene	10.0	10.0	100	69-129	
1,3,5-Trimethylbenzene	10.0	10.1	101	65-125	
2-Chlorotoluene	10.0	10.1	101	67-127	
tert-Butylbenzene	10.0	9.98	100	63-125	
1,2,4-Trimethylbenzene	10.0	10.1	101	65-125	
sec-Butylbenzene	10.0	9.83	98	66-126	
4-Isopropyltoluene	10.0	9.41	94	67-129	
1,3-Dichlorobenzene	10.0	9.67	97	67-127	
1,4-Dichlorobenzene	10.0	9.56	96	66-126	
Benzyl chloride	10.0	9.82	98	54-135	
n-Butylbenzene	10.0	9.54	95	67-127	
1,2-Dichlorobenzene	10.0	9.47	95	67-127	
1,2,4-Trichlorobenzene	10.0	10.0	100	59-126	
Hexachlorobutadiene	10.0	8.93	89	62-130	
Naphthalene	10.0	10.5	105	50-121	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Lab File ID: 32636-07.D Lab Sample ID: MB 200-135228/7

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

Instrument ID: CHB.i Date Analyzed: 10/15/2018 17:09

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-135228/6	32636-06.D	10/15/2018 16:16
5909	200-45713-1	32636-08.D	10/15/2018 18:01

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-135228/7

Matrix: Air Lab File ID: 32636-07.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/15/2018 17:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 135228 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-135228/7

Matrix: Air Lab File ID: 32636-07.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/15/2018 17:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 135228 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-135228/7

Matrix: Air Lab File ID: 32636-07.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 10/15/2018 17:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 135228 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 15-Oct-2018 17:09:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0032636-007
Operator ID: vtp Instrument ID: CHB.i

Method: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 16-Oct-2018 18:38:07 Calib Date: 14-Aug-2018 00:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHB.i\20180813-31773.b\31773-10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: bunmaa Date: 16-Oct-2018 18:38:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
1 Propene	41		3.135					ND	
2 Dichlorodifluoromethane	85		3.193					ND	
3 Chlorodifluoromethane	51		3.225					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.407					ND	
5 Chloromethane	50		3.530					ND	
6 Butane	43		3.706					ND	U
7 Vinyl chloride	62		3.743					ND	
8 Butadiene	54		3.807					ND	
10 Bromomethane	94		4.464					ND	
11 Chloroethane	64		4.693					ND	
12 2-Methylbutane	43		4.778					ND	
13 Vinyl bromide	106		5.099					ND	
14 Trichlorofluoromethane	101		5.205					ND	
15 Pentane	43		5.339					ND	U
16 Ethanol	45		5.659					ND	
17 Ethyl ether	59		5.808					ND	
18 Acrolein	56		6.166					ND	
19 1,1,2-Trichloro-1,2,2-trif	101		6.230					ND	
20 1,1-Dichloroethene	96		6.294					ND	
21 Acetone	43		6.438					ND	
22 Isopropyl alcohol	45		6.662					ND	
23 Carbon disulfide	76		6.726					ND	
24 3-Chloro-1-propene	41		6.988					ND	
26 Acetonitrile	41		7.041					ND	
27 Methylene Chloride	49		7.249					ND	
28 2-Methyl-2-propanol	59		7.361					ND	
29 Methyl tert-butyl ether	73		7.596					ND	
30 trans-1,2-Dichloroethene	61		7.660					ND	
31 Acrylonitrile	53		7.724					ND	
32 Hexane	57		7.991					ND	U
33 1,1-Dichloroethane	63		8.397					ND	
34 Vinyl acetate	43		8.402					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
36 2-Butanone (MEK)	72		9.283					ND	
37 cis-1,2-Dichloroethene	96		9.299					ND	
35 Ethyl acetate	88		9.304					ND	
* 39 Chlorobromomethane	128	9.667	9.667	0.000	74	128858	10.0	10.0	
38 Tetrahydrofuran	42		9.683					ND	
40 Chloroform	83		9.742					ND	
S 41 1,2-Dichloroethene, Total	61		10.000					ND	
42 1,1,1-Trichloroethane	97		10.003					ND	
43 Cyclohexane	84		10.019					ND	
44 Carbon tetrachloride	117		10.211					ND	
45 Isooctane	57		10.494					ND	
46 Benzene	78		10.532					ND	U
47 1,2-Dichloroethane	62		10.628					ND	
48 n-Heptane	43		10.745					ND	
A 49 GRO	1	10.846	(4.768-16.925)		0	1497572		0	
* 50 1,4-Difluorobenzene	114	11.071	11.076	-0.005	91	614024	10.0	10.0	
51 n-Butanol	56		11.263					ND	U
53 Trichloroethene	95		11.444					ND	
54 1,2-Dichloropropane	63		11.807					ND	
55 Methyl methacrylate	69		11.850					ND	
56 1,4-Dioxane	88		11.941					ND	
57 Dibromomethane	174		11.999					ND	
58 Dichlorobromomethane	83		12.170					ND	
A 59 TVOC as Toluene	1	12.461	(3.125-21.797)		0	1594804		0	
60 cis-1,3-Dichloropropene	75		12.794					ND	
61 4-Methyl-2-pentanone (MIBK	43		12.944					ND	
63 n-Octane	43		13.221					ND	
64 Toluene	92		13.227					ND	
66 trans-1,3-Dichloropropene	75		13.590					ND	
67 1,1,2-Trichloroethane	83		13.862					ND	
68 Tetrachloroethene	166		14.006					ND	
69 2-Hexanone	43		14.118					ND	
70 Chlorodibromomethane	129		14.417					ND	
71 Ethylene Dibromide	107		14.620					ND	
* 72 Chlorobenzene-d5	117	15.185	15.185	0.000	80	519320	10.0	10.0	
73 Chlorobenzene	112		15.223					ND	
74 Ethylbenzene	91	15.297	15.297	0.005	90	1411		0.0251	7a
75 n-Nonane	57		15.319					ND	
76 m-Xylene & p-Xylene	106		15.436					ND	U
78 o-Xylene	106		15.954					ND	Ua
79 Styrene	104		15.975					ND	
S 77 Xylenes, Total	106		16.000					ND	
80 Bromoform	173		16.269					ND	
81 Isopropylbenzene	105		16.365					ND	
83 1,1,2,2-Tetrachloroethane	83		16.770					ND	
84 N-Propylbenzene	91		16.845					ND	U
85 1,2,3-Trichloropropane	75		16.850					ND	U
86 n-Decane	57		16.915					ND	
87 4-Ethyltoluene	105		16.968					ND	
88 2-Chlorotoluene	91		17.011					ND	
89 1,3,5-Trimethylbenzene	105		17.037					ND	
90 Alpha Methyl Styrene	118		17.309					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
91 tert-Butylbenzene	119		17.411					ND	
92 1,2,4-Trimethylbenzene	105		17.480					ND	
93 sec-Butylbenzene	105		17.667					ND	
94 4-Isopropyltoluene	119		17.822					ND	
95 1,3-Dichlorobenzene	146		17.897					ND	
96 1,4-Dichlorobenzene	146		18.009					ND	
97 Benzyl chloride	91		18.153					ND	
98 Undecane	57		18.291					ND	
99 n-Butylbenzene	91		18.323					ND	
100 1,2-Dichlorobenzene	146		18.489					ND	
102 Dodecane	57		19.738					ND	
103 1,2,4-Trichlorobenzene	180		20.837					ND	
104 Hexachlorobutadiene	225		21.008					ND	
105 Naphthalene	128		21.312					ND	U
106 1,2,3-Trichlorobenzene	180		21.787					ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

ATTO15BISs_00006 Amount Added: 20.00 Units: mL Run Reagent

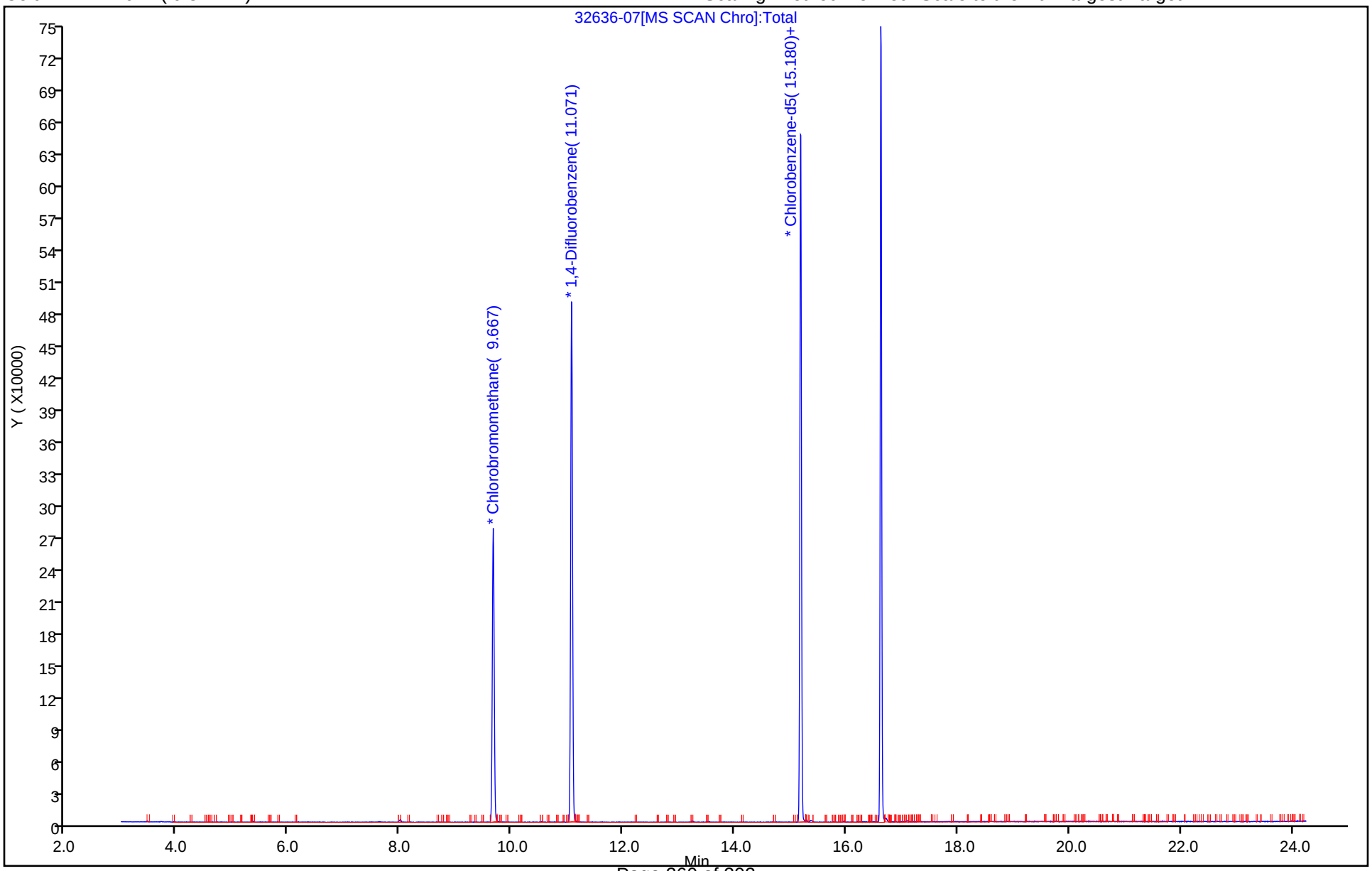
Report Date: 16-Oct-2018 18:38:08 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D

Injection Date:	15-Oct-2018 17:09:30	Instrument ID:	CHB.i	Operator ID:	vtp
Lims ID:	mb			Worklist Smp#:	7
Client ID:					
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



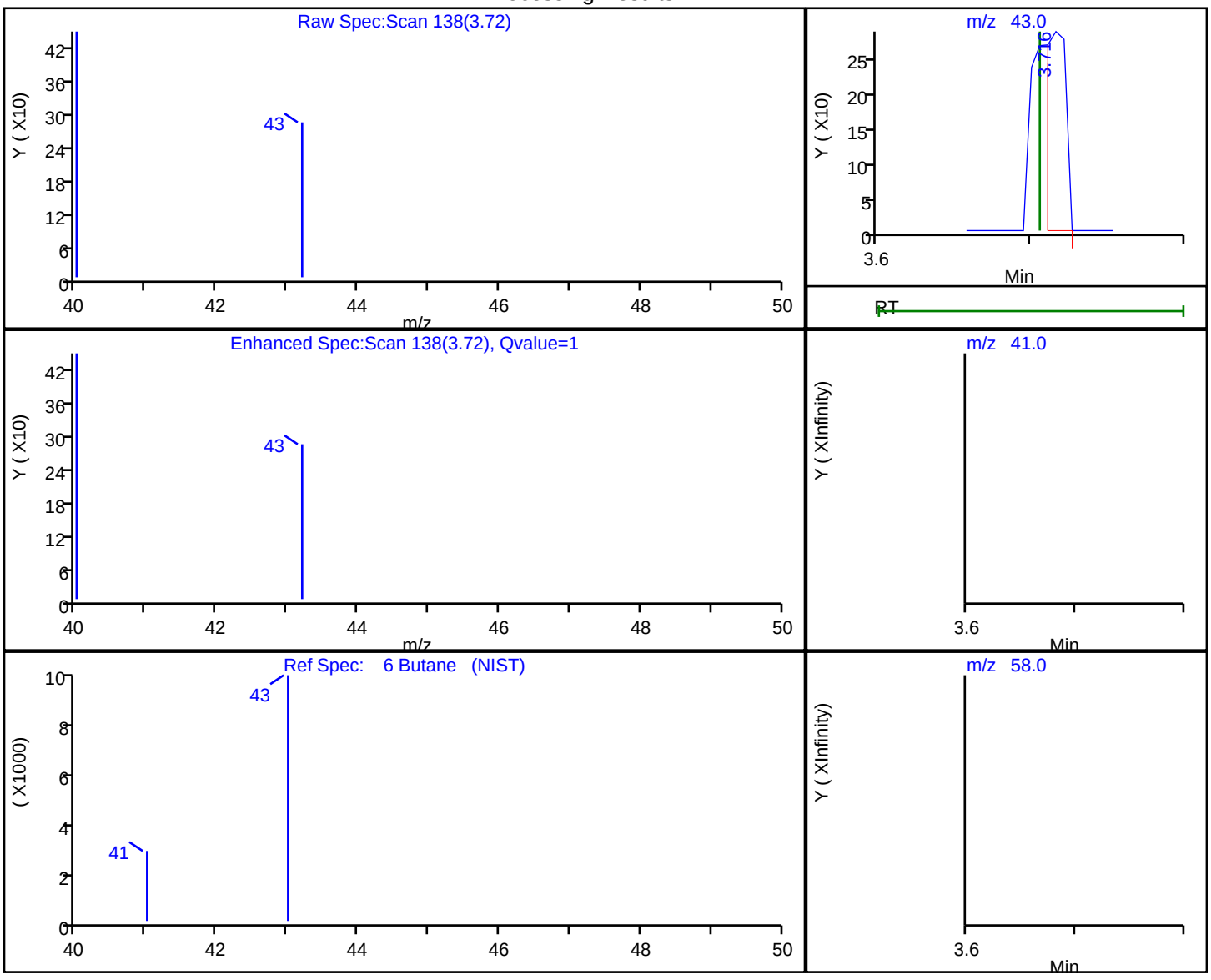
User Disabled Compound Report

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D
Injection Date: 15-Oct-2018 17:09:30 Instrument ID: CHB.i
Lims ID: mb
Client ID:
Operator ID: vtp ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
3.72	43.00	262	0.030603
3.71	41.00	0	
3.71	58.00	0	

Reviewer: bunmaa, 16-Oct-2018 18:35:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

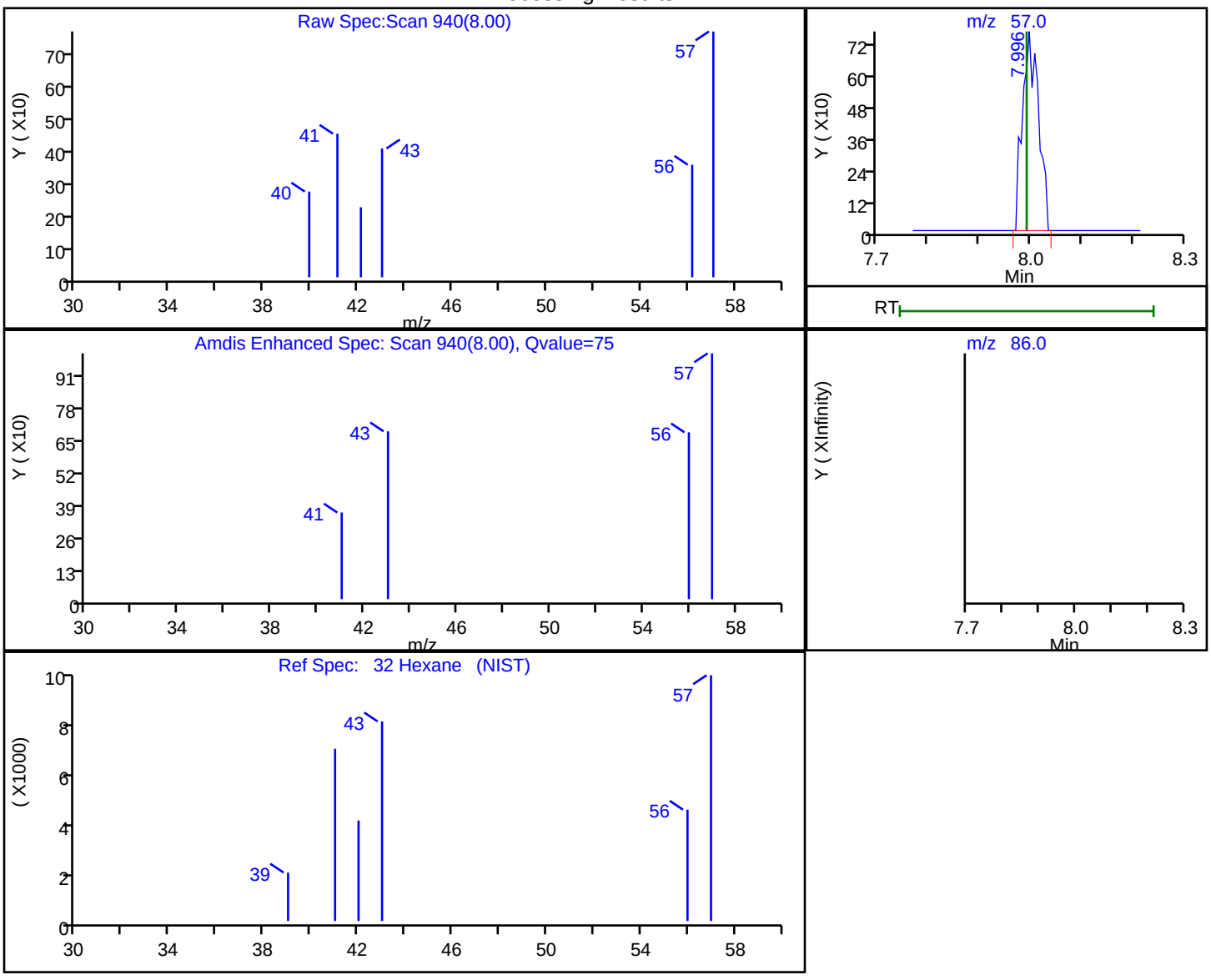
User Disabled Compound Report

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D
Injection Date: 15-Oct-2018 17:09:30 Instrument ID: CHB.i
Lims ID: mb
Client ID:
Operator ID: vtp ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

32 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
8.00	57.00	1688	0.109100
7.99	86.00	0	

Reviewer: bunmaa, 16-Oct-2018 18:36:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

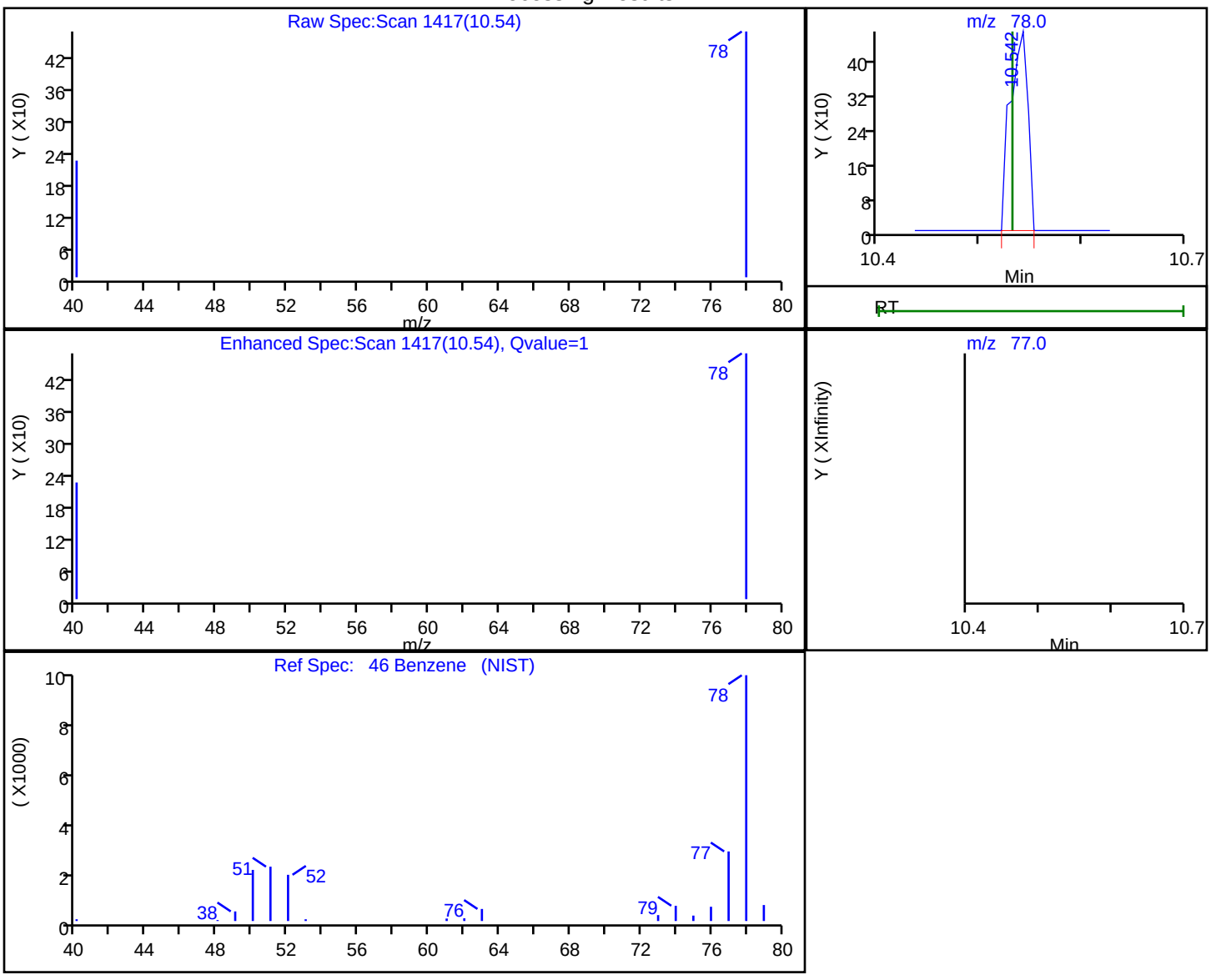
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D				
Injection Date:	15-Oct-2018 17:09:30	Instrument ID:	CHB.i		
Lims ID:	mb				
Client ID:					
Operator ID:	vtp	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
10.54	78.00	565	0.016097
10.53	77.00	0	

Reviewer: bunmaa, 16-Oct-2018 18:36:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

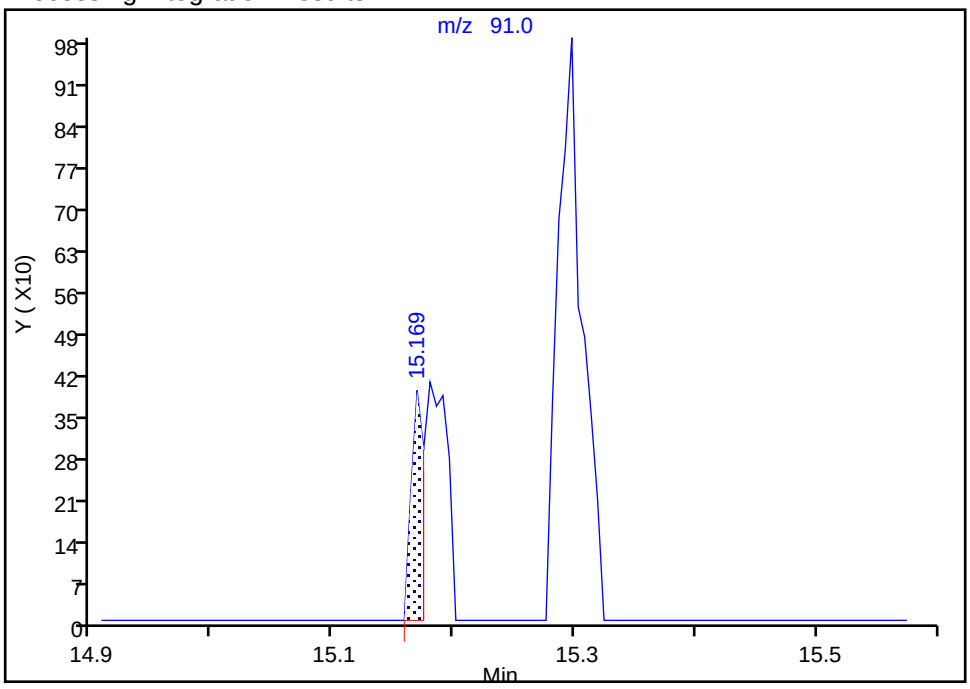
Data File: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D
Injection Date: 15-Oct-2018 17:09:30 Instrument ID: CHB.i
Lims ID: mb
Client ID:
Operator ID: vtp ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector MS SCAN

74 Ethylbenzene, CAS: 100-41-4

Signal: 1

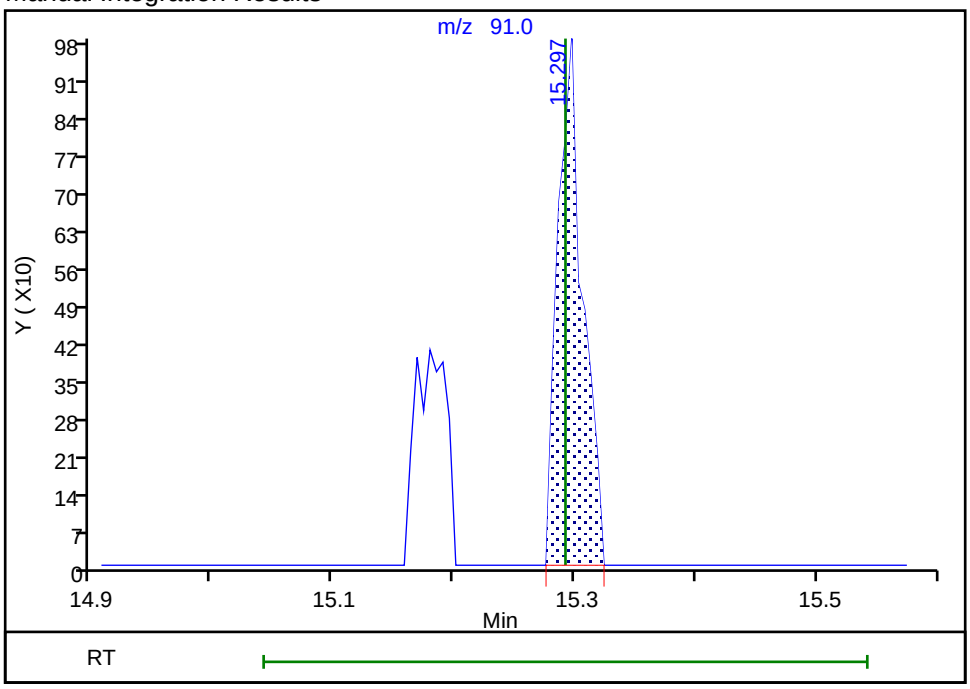
Processing Integration Results

RT: 15.17
Area: 287
Amount: 0.005097
Amount Units: ppb v/v



Manual Integration Results

RT: 15.30
Area: 1411
Amount: 0.025057
Amount Units: ppb v/v



Reviewer: bunmaa, 16-Oct-2018 18:37:13
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

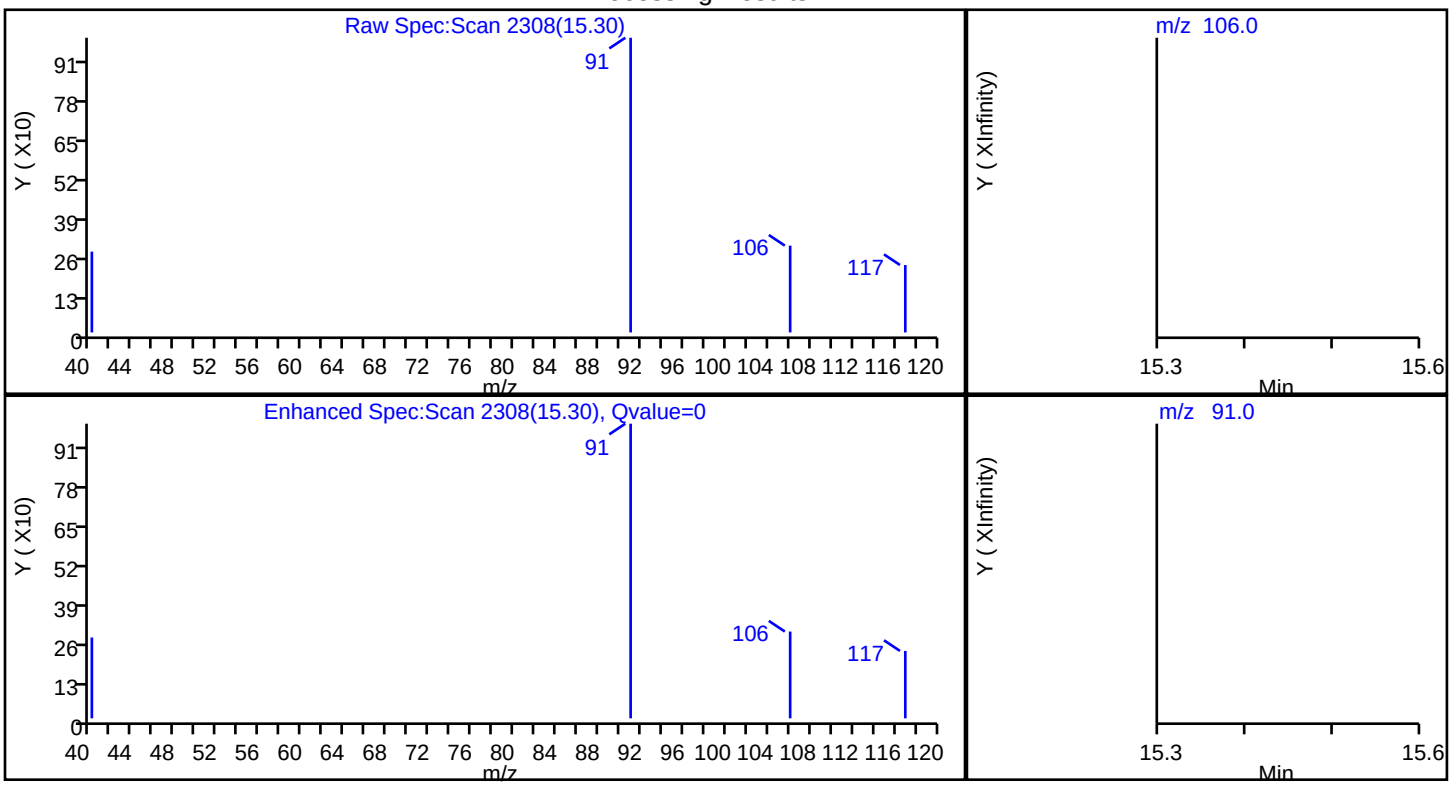
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D				
Injection Date:	15-Oct-2018 17:09:30	Instrument ID:	CHB.i		
Lims ID:	mb				
Client ID:					
Operator ID:	vtp	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
15.30	106.00	250	0.010399
15.30	91.00	1411	

Reviewer: bunmaa, 16-Oct-2018 18:37:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

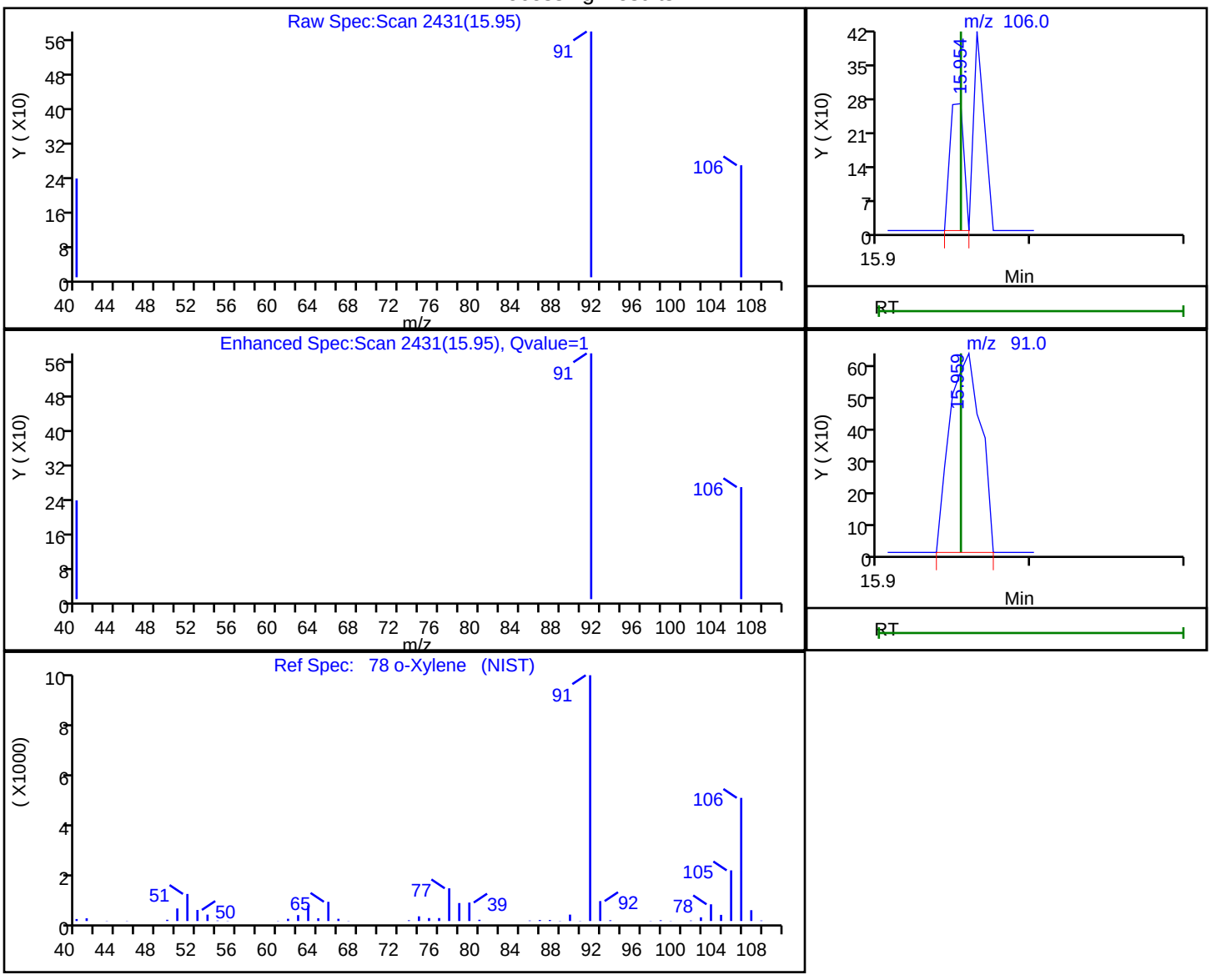
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D				
Injection Date:	15-Oct-2018 17:09:30	Instrument ID:	CHB.i		
Lims ID:	mb				
Client ID:					
Operator ID:	vtp	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
15.95	106.00	167	0.007049
15.96	91.00	892	

Reviewer: bunmaa, 16-Oct-2018 18:37:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

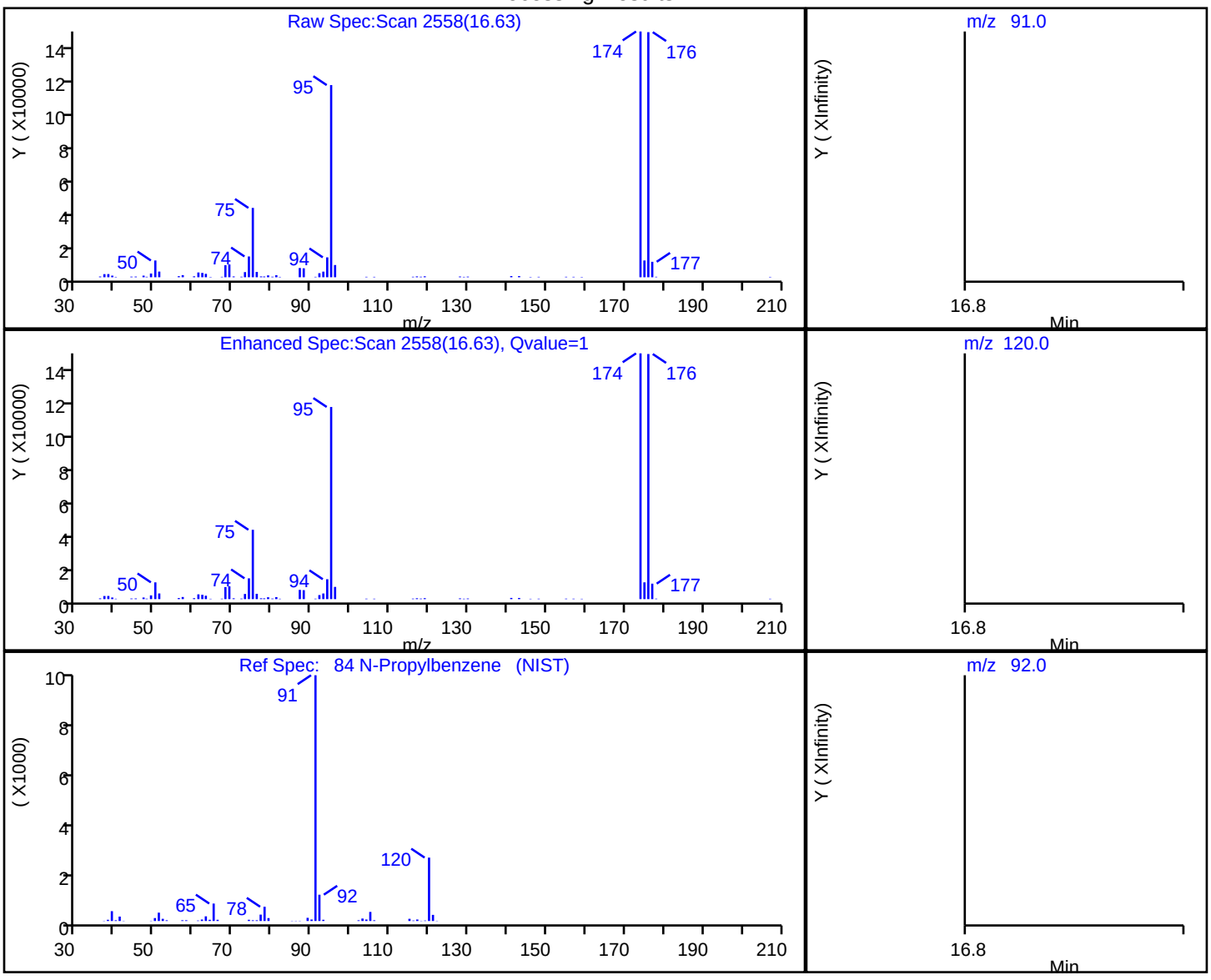
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D				
Injection Date:	15-Oct-2018 17:09:30	Instrument ID:	CHB.i		
Lims ID:	mb				
Client ID:					
Operator ID:	vtp	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

84 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
16.63	91.00	85	0.001175
16.63	92.00	5428	
16.85	120.00	0	

Reviewer: bunmaa, 16-Oct-2018 18:37:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

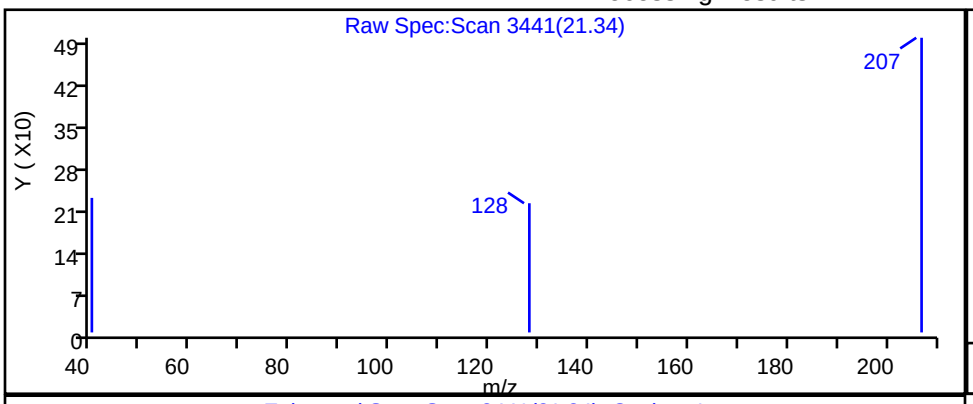
User Disabled Compound Report

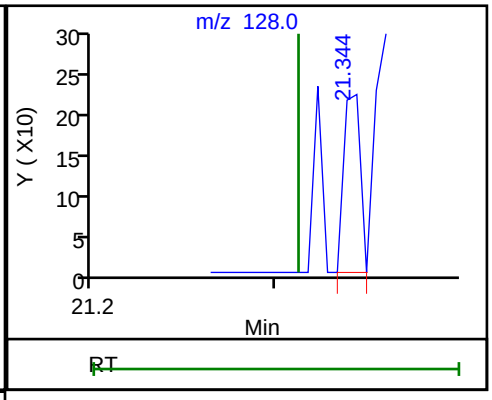
TestAmerica Burlington

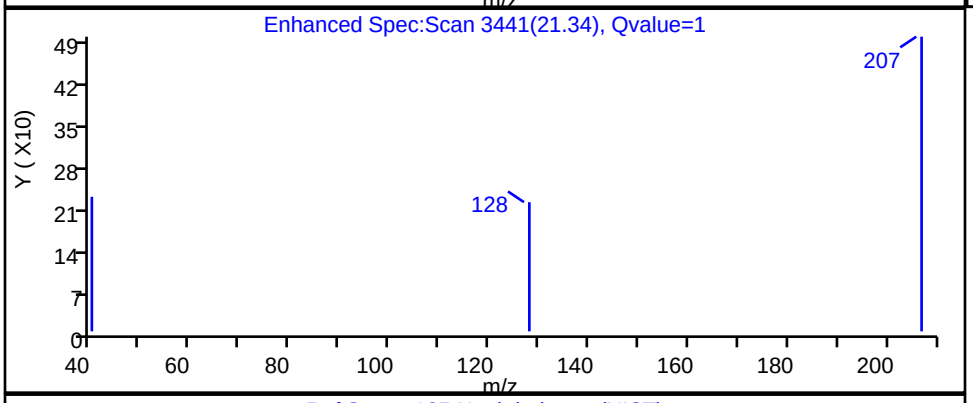
Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-07.D				
Injection Date:	15-Oct-2018 17:09:30	Instrument ID:	CHB.i		
Lims ID:	mb				
Client ID:					
Operator ID:	vtp	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

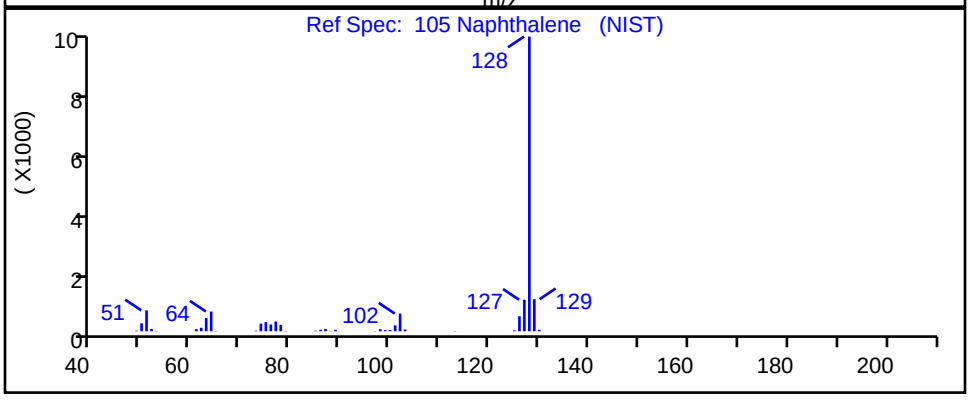
105 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
21.34	128.00	137	0.002040

Reviewer: bunmaa, 16-Oct-2018 18:38:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Lab File ID: 31773-01.D BFB Injection Date: 08/13/2018

Instrument ID: CHB.i BFB Injection Time: 16:24

Analysis Batch No.: 132849

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	9.4	
75	30.0 - 66.0% of mass 95	34.0	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	118.1	
175	4.0 - 9.0 % of mass 174	8.4	(7.1) 1
176	93.0 - 101.0% of mass 174	116.1	(98.3) 1
177	5.0 - 9.0% of mass 176	7.5	(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 200-132849/3	31773-03.D	08/13/2018	18:07
	IC 200-132849/4	31773-04.D	08/13/2018	19:00
	IC 200-132849/5	31773-05.D	08/13/2018	19:54
	IC 200-132849/6	31773-06.D	08/13/2018	20:47
	ICIS 200-132849/7	31773-07.D	08/13/2018	21:40
	IC 200-132849/8	31773-08.D	08/13/2018	22:34
	IC 200-132849/9	31773-09.D	08/13/2018	23:27
	IC 200-132849/10	31773-10.D	08/14/2018	00:20
	ICV 200-132849/14	31773-14.D	08/14/2018	03:53

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Lab File ID: 32636-04.D BFB Injection Date: 10/15/2018

Instrument ID: CHB.i BFB Injection Time: 14:27

Analysis Batch No.: 135228

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	9.9	
75	30.0 - 66.0% of mass 95	35.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	114.2	
175	4.0 - 9.0 % of mass 174	8.8	(7.7) 1
176	93.0 - 101.0% of mass 174	112.4	(98.4) 1
177	5.0 - 9.0% of mass 176	7.5	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-135228/5	32636-05.D	10/15/2018	15:24
	LCS 200-135228/6	32636-06.D	10/15/2018	16:16
	MB 200-135228/7	32636-07.D	10/15/2018	17:09
5909	200-45713-1	32636-08.D	10/15/2018	18:01

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Sample No.: ICIS 200-132849/7 Date Analyzed: 08/13/2018 21:40

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 31773-07.D Heated Purge: (Y/N) N

Calibration ID: 39905

		BCM		DFBZ		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		251316	9.68	1186406	11.08	1044232	15.19
UPPER LIMIT		351842	10.01	1660968	11.41	1461925	15.52
LOWER LIMIT		150790	9.35	711844	10.75	626539	14.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-132849/14		271050	9.68	1267522	11.08	1077301	15.19

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Sample No.: CCVIS 200-135228/5 Date Analyzed: 10/15/2018 15:24

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): 32636-05.D Heated Purge: (Y/N) N

Calibration ID: 39905

		BCM		DFBZ		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		138542	9.67	662784	11.08	565559	15.19
UPPER LIMIT		193959	10.00	927898	11.41	791783	15.52
LOWER LIMIT		83125	9.34	397670	10.75	339335	14.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-135228/6		131824	9.67	630193	11.08	537984	15.19
MB 200-135228/7		128858	9.67	614024	11.07	519320	15.19
200-45713-1	5909	95698	9.67	402932	11.08	349864	15.19

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Client Sample ID: 5909 Lab Sample ID: 200-45713-1

Matrix: Air Lab File ID: 32636-08.D

Analysis Method: TO-15 Date Collected: 10/14/2018 00:00

Sample wt/vol: 200(mL) Date Analyzed: 10/15/2018 18:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 135228 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Client Sample ID: 5909 Lab Sample ID: 200-45713-1

Matrix: Air Lab File ID: 32636-08.D

Analysis Method: TO-15 Date Collected: 10/14/2018 00:00

Sample wt/vol: 200(mL) Date Analyzed: 10/15/2018 18:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 135228 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Client Sample ID: 5909 Lab Sample ID: 200-45713-1

Matrix: Air Lab File ID: 32636-08.D

Analysis Method: TO-15 Date Collected: 10/14/2018 00:00

Sample wt/vol: 200(mL) Date Analyzed: 10/15/2018 18:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 135228 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D
Lims ID: 200-45713-A-1
Client ID: 5909
Sample Type: Client
Inject. Date: 15-Oct-2018 18:01:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0032636-008
Operator ID: vtp Instrument ID: CHB.i

Method: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 16-Oct-2018 18:40:55 Calib Date: 14-Aug-2018 00:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHB.i\20180813-31773.b\31773-10.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: bunmaa Date: 16-Oct-2018 18:40:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.135				ND	
2 Dichlorodifluoromethane	85		3.193				ND	
3 Chlorodifluoromethane	51		3.225				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.407				ND	
5 Chloromethane	50		3.530				ND	
6 Butane	43		3.706				ND	U
7 Vinyl chloride	62		3.743				ND	
8 Butadiene	54		3.807				ND	
10 Bromomethane	94		4.464				ND	
11 Chloroethane	64		4.693				ND	
13 Vinyl bromide	106		5.099				ND	
14 Trichlorofluoromethane	101		5.205				ND	
16 Ethanol	45		5.659				ND	
19 1,1,2-Trichloro-1,2,2-trif	101		6.230				ND	
20 1,1-Dichloroethene	96		6.294				ND	
21 Acetone	43		6.438				ND	
22 Isopropyl alcohol	45		6.662				ND	
23 Carbon disulfide	76		6.726				ND	
24 3-Chloro-1-propene	41		6.988				ND	
27 Methylene Chloride	49		7.249				ND	
28 2-Methyl-2-propanol	59		7.361				ND	
29 Methyl tert-butyl ether	73		7.596				ND	
30 trans-1,2-Dichloroethene	61		7.660				ND	
32 Hexane	57		7.991				ND	U
33 1,1-Dichloroethane	63		8.397				ND	
34 Vinyl acetate	43		8.402				ND	
36 2-Butanone (MEK)	72		9.283				ND	
37 cis-1,2-Dichloroethene	96		9.299				ND	
35 Ethyl acetate	88		9.304				ND	
* 39 Chlorobromomethane	128	9.667	9.667	0.000	73	95698	10.0	
38 Tetrahydrofuran	42		9.683				ND	
40 Chloroform	83		9.742				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
S 41 1,2-Dichloroethene, Total	61		10.000				ND	
42 1,1,1-Trichloroethane	97		10.003				ND	
43 Cyclohexane	84		10.019				ND	
44 Carbon tetrachloride	117		10.211				ND	
45 Isooctane	57		10.494				ND	
46 Benzene	78		10.532				ND	U
47 1,2-Dichloroethane	62		10.628				ND	
48 n-Heptane	43		10.745				ND	
* 50 1,4-Difluorobenzene	114	11.076	11.076	0.000	91	402932	10.0	
53 Trichloroethene	95		11.444				ND	
54 1,2-Dichloropropane	63		11.807				ND	
55 Methyl methacrylate	69		11.850				ND	
56 1,4-Dioxane	88		11.941				ND	
57 Dibromomethane	174		11.999				ND	
58 Dichlorobromomethane	83		12.170				ND	
60 cis-1,3-Dichloropropene	75		12.794				ND	
61 4-Methyl-2-pentanone (MIBK	43		12.944				ND	
64 Toluene	92		13.227				ND	
66 trans-1,3-Dichloropropene	75		13.590				ND	
67 1,1,2-Trichloroethane	83		13.862				ND	
68 Tetrachloroethene	166		14.006				ND	
69 2-Hexanone	43		14.118				ND	
70 Chlorodibromomethane	129		14.417				ND	
71 Ethylene Dibromide	107		14.620				ND	
* 72 Chlorobenzene-d5	117	15.185	15.185	0.000	80	349864	10.0	
73 Chlorobenzene	112		15.223				ND	
74 Ethylbenzene	91	15.297	15.297	0.005	1	971	0.0256	7a
76 m-Xylene & p-Xylene	106		15.436				ND	U
78 o-Xylene	106		15.954				ND	
79 Styrene	104		15.975				ND	
S 77 Xylenes, Total	106		16.000				ND	
80 Bromoform	173		16.269				ND	
81 Isopropylbenzene	105		16.365				ND	
83 1,1,2,2-Tetrachloroethane	83		16.770				ND	
84 N-Propylbenzene	91		16.845				ND	U
87 4-Ethyltoluene	105		16.968				ND	
88 2-Chlorotoluene	91		17.011				ND	
89 1,3,5-Trimethylbenzene	105		17.037				ND	
91 tert-Butylbenzene	119		17.411				ND	
92 1,2,4-Trimethylbenzene	105		17.480				ND	
93 sec-Butylbenzene	105		17.667				ND	
94 4-Isopropyltoluene	119		17.822				ND	
95 1,3-Dichlorobenzene	146		17.897				ND	
96 1,4-Dichlorobenzene	146		18.009				ND	
97 Benzyl chloride	91		18.153				ND	
99 n-Butylbenzene	91		18.323				ND	
100 1,2-Dichlorobenzene	146		18.489				ND	
103 1,2,4-Trichlorobenzene	180		20.837				ND	
104 Hexachlorobutadiene	225		21.008				ND	
105 Naphthalene	128		21.312				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15BISs_00006	Amount Added: 20.00	Units: mL	Run Reagent

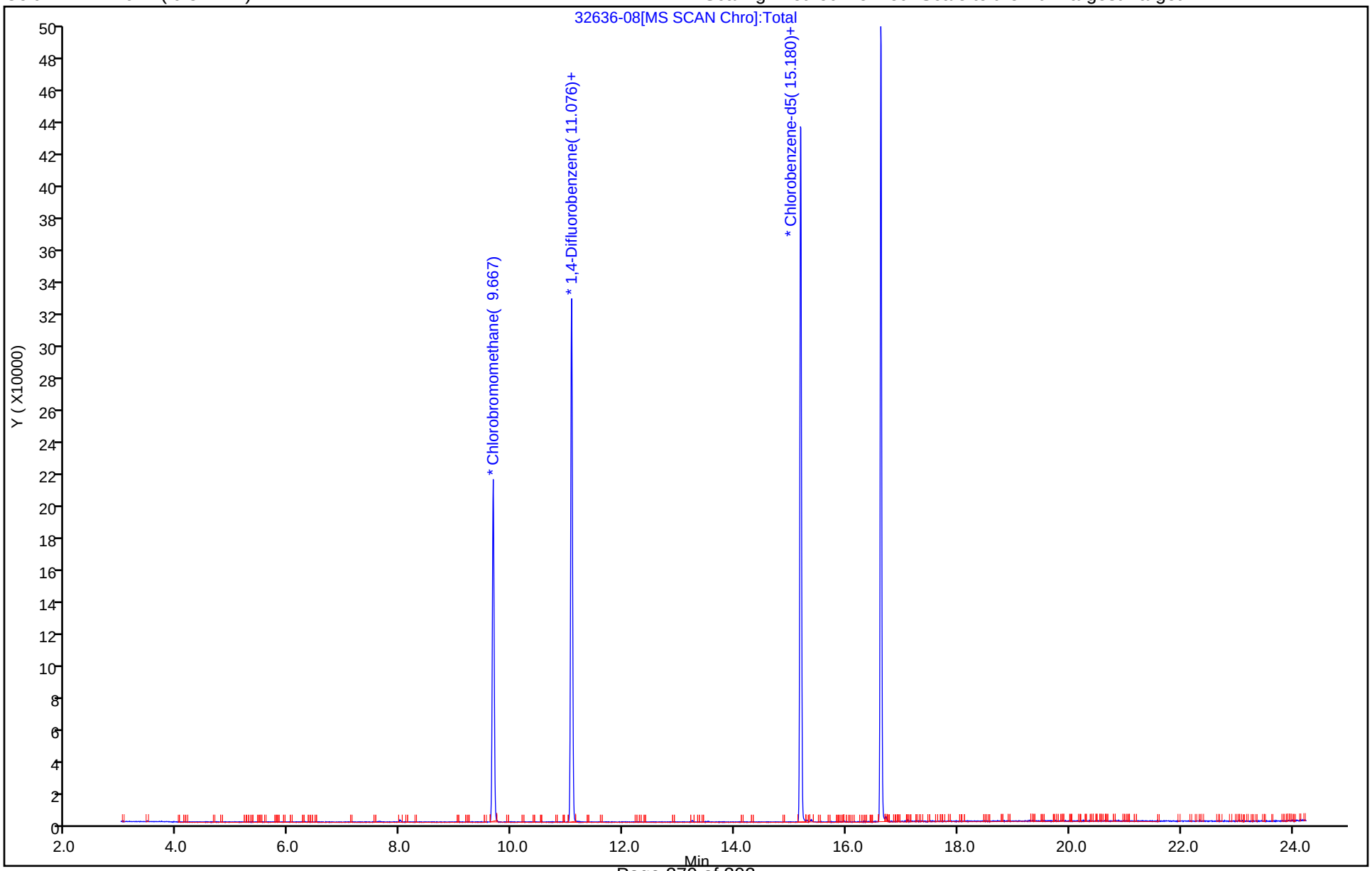
Report Date: 16-Oct-2018 18:40:56 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D

Injection Date:	15-Oct-2018 18:01:30	Instrument ID:	CHB.i	Operator ID:	vtp
Lims ID:	200-45713-A-1	Lab Sample ID:	200-45713-1	Worklist Smp#:	8
Client ID:	5909				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



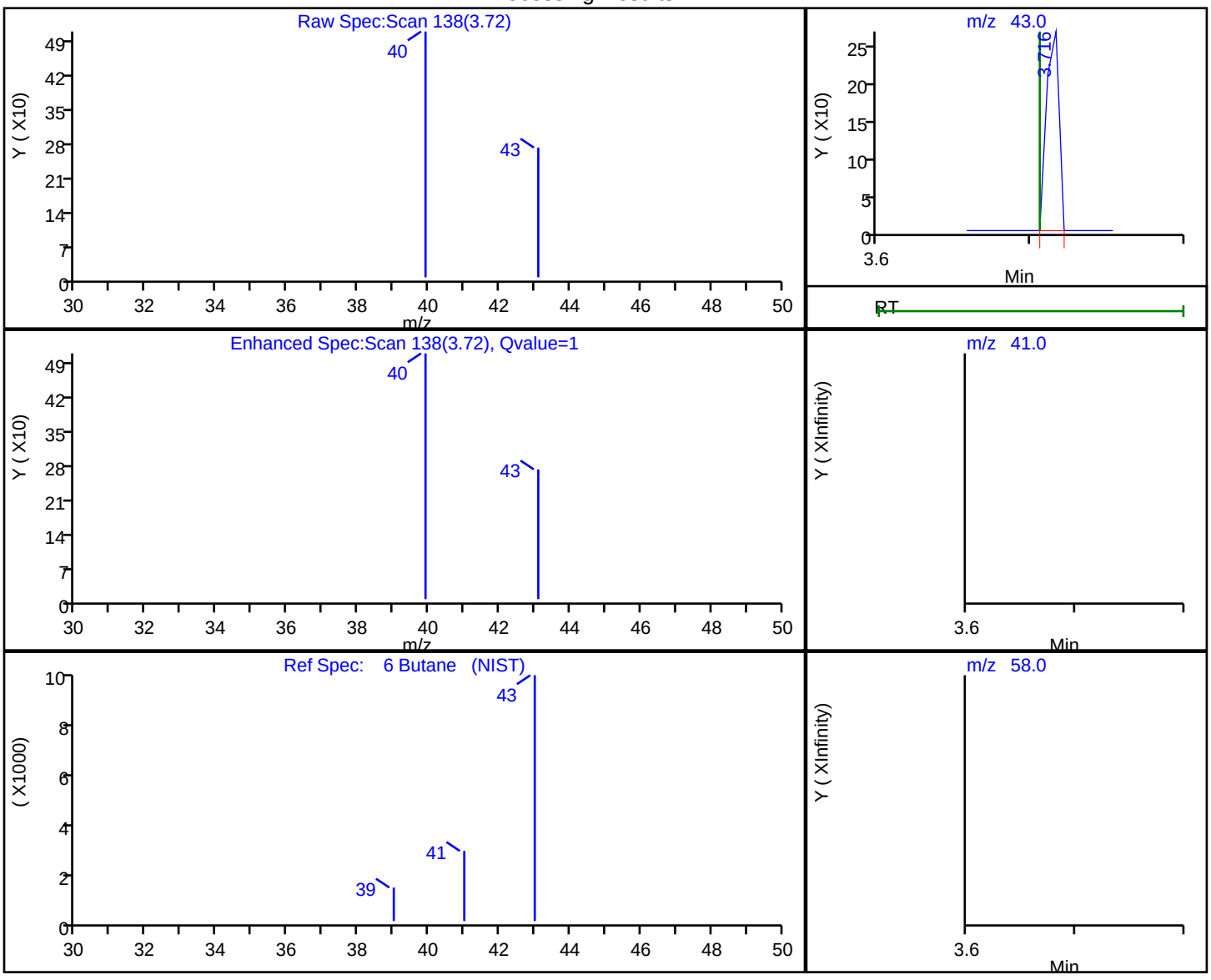
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D				
Injection Date:	15-Oct-2018 18:01:30	Instrument ID:	CHB.i		
Lims ID:	200-45713-A-1	Lab Sample ID:	200-45713-1		
Client ID:	5909				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

6 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
3.72	43.00	153	0.024064
3.71	41.00	0	
3.71	58.00	0	

Reviewer: bunmaa, 16-Oct-2018 18:38:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

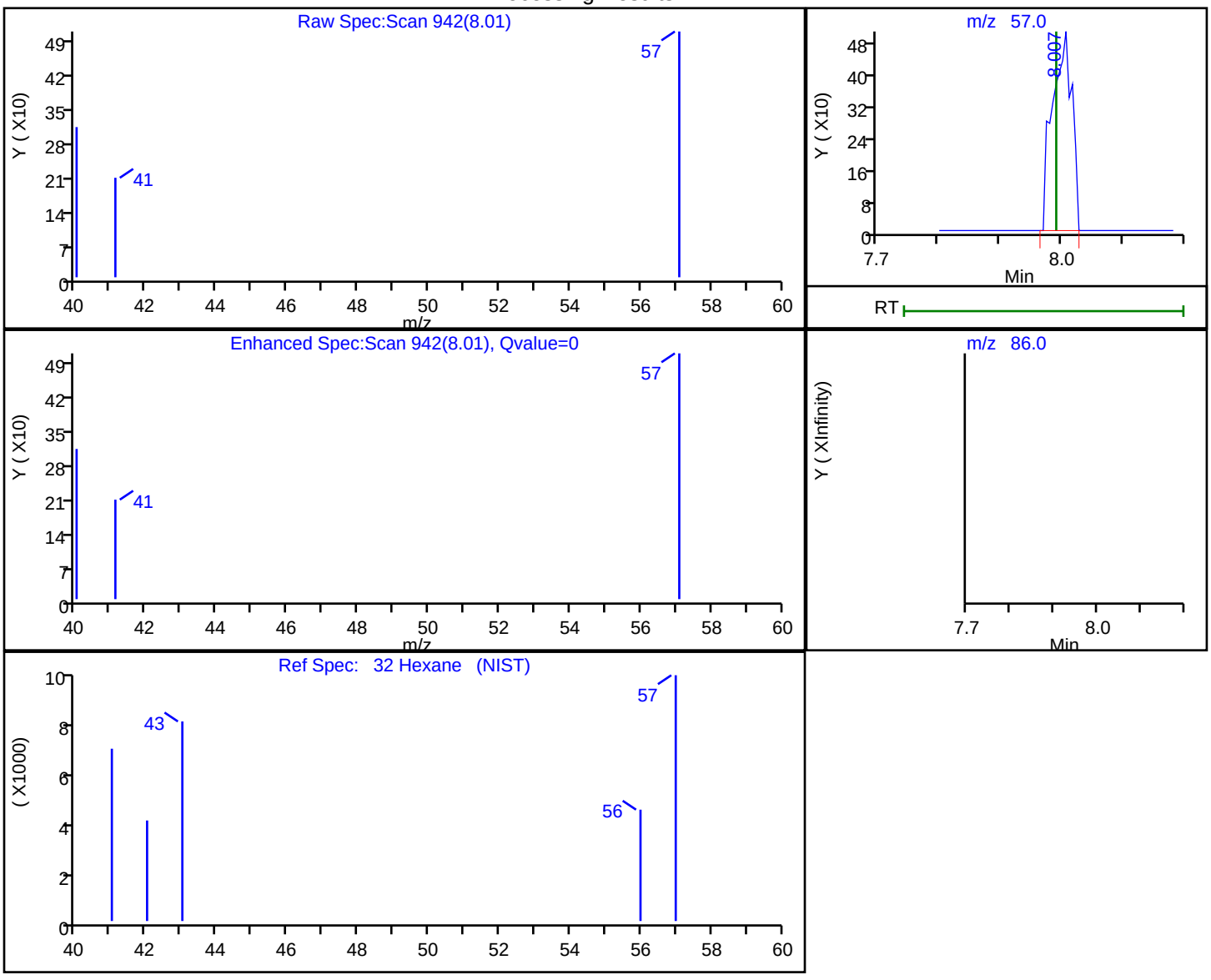
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D				
Injection Date:	15-Oct-2018 18:01:30	Instrument ID:	CHB.i		
Lims ID:	200-45713-A-1	Lab Sample ID:	200-45713-1		
Client ID:	5909				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

32 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
8.01	57.00	1131	0.098429
7.99	86.00	0	

Reviewer: bunmaa, 16-Oct-2018 18:39:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

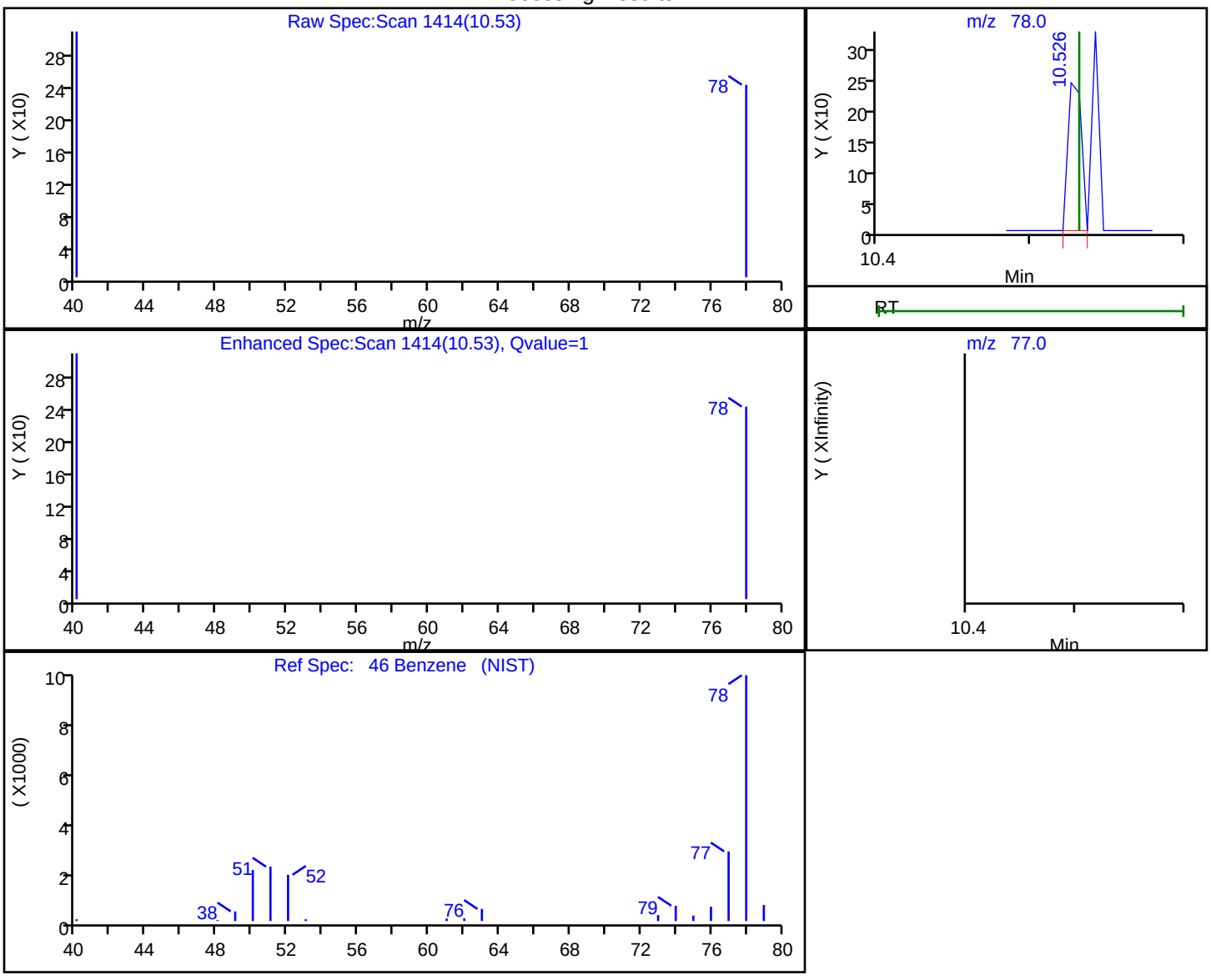
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D				
Injection Date:	15-Oct-2018 18:01:30	Instrument ID:	CHB.i		
Lims ID:	200-45713-A-1	Lab Sample ID:	200-45713-1		
Client ID:	5909				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

46 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
10.53	78.00	150	0.006512
10.53	77.00	0	

Reviewer: bunmaa, 16-Oct-2018 18:39:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Burlington

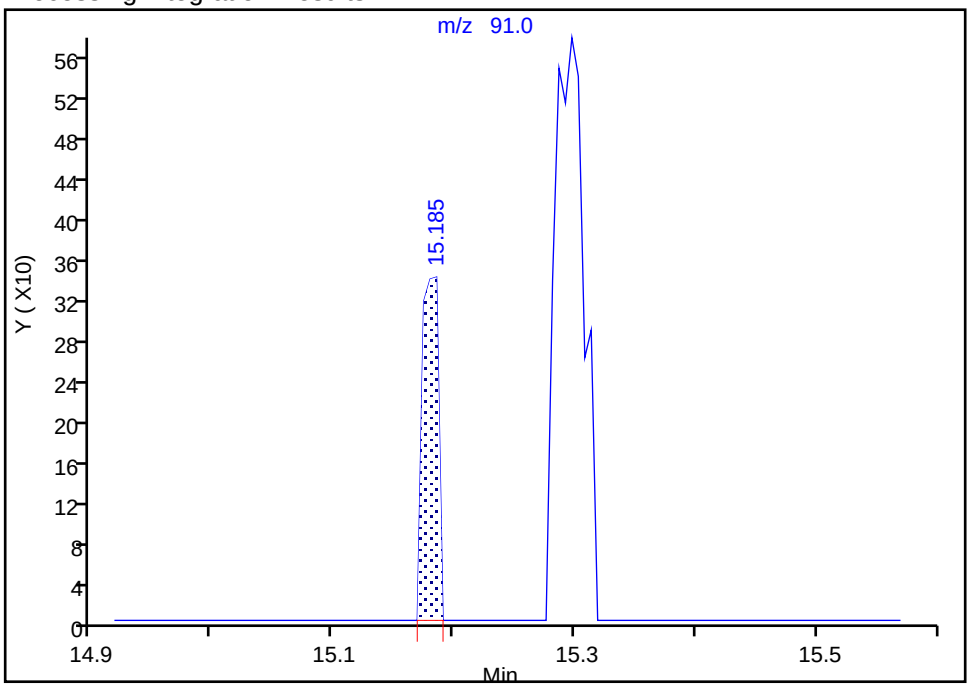
Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D				
Injection Date:	15-Oct-2018 18:01:30	Instrument ID:	CHB.i		
Lims ID:	200-45713-A-1	Lab Sample ID:	200-45713-1		
Client ID:	5909				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

74 Ethylbenzene, CAS: 100-41-4

Signal: 1

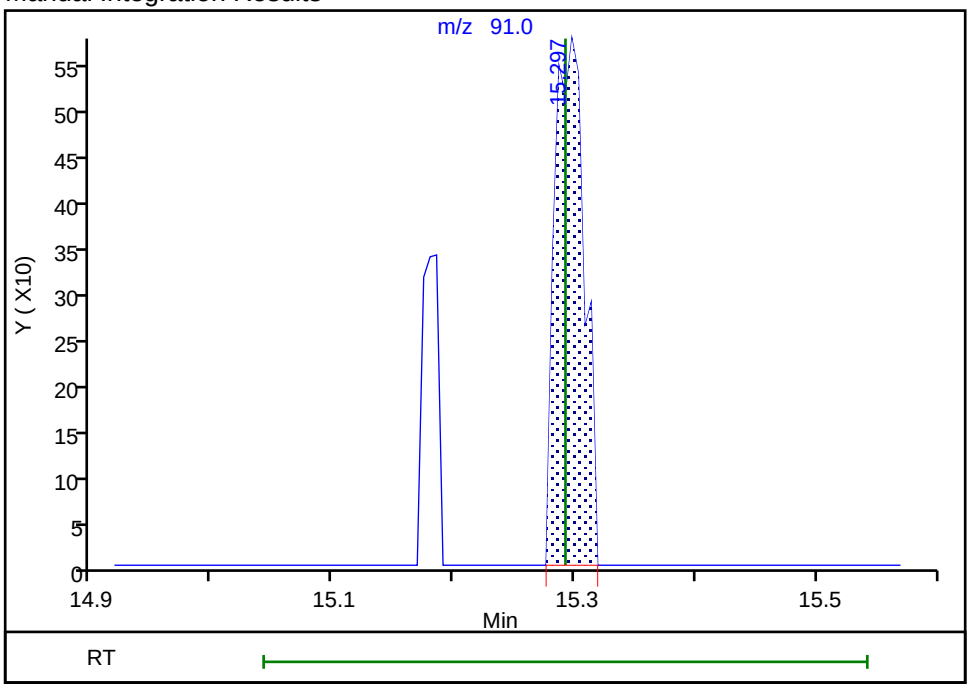
Processing Integration Results

RT: 15.19
Area: 315
Amount: 0.008303
Amount Units: ppb v/v



Manual Integration Results

RT: 15.30
Area: 971
Amount: 0.025595
Amount Units: ppb v/v



Reviewer: bunmaa, 16-Oct-2018 18:40:14
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

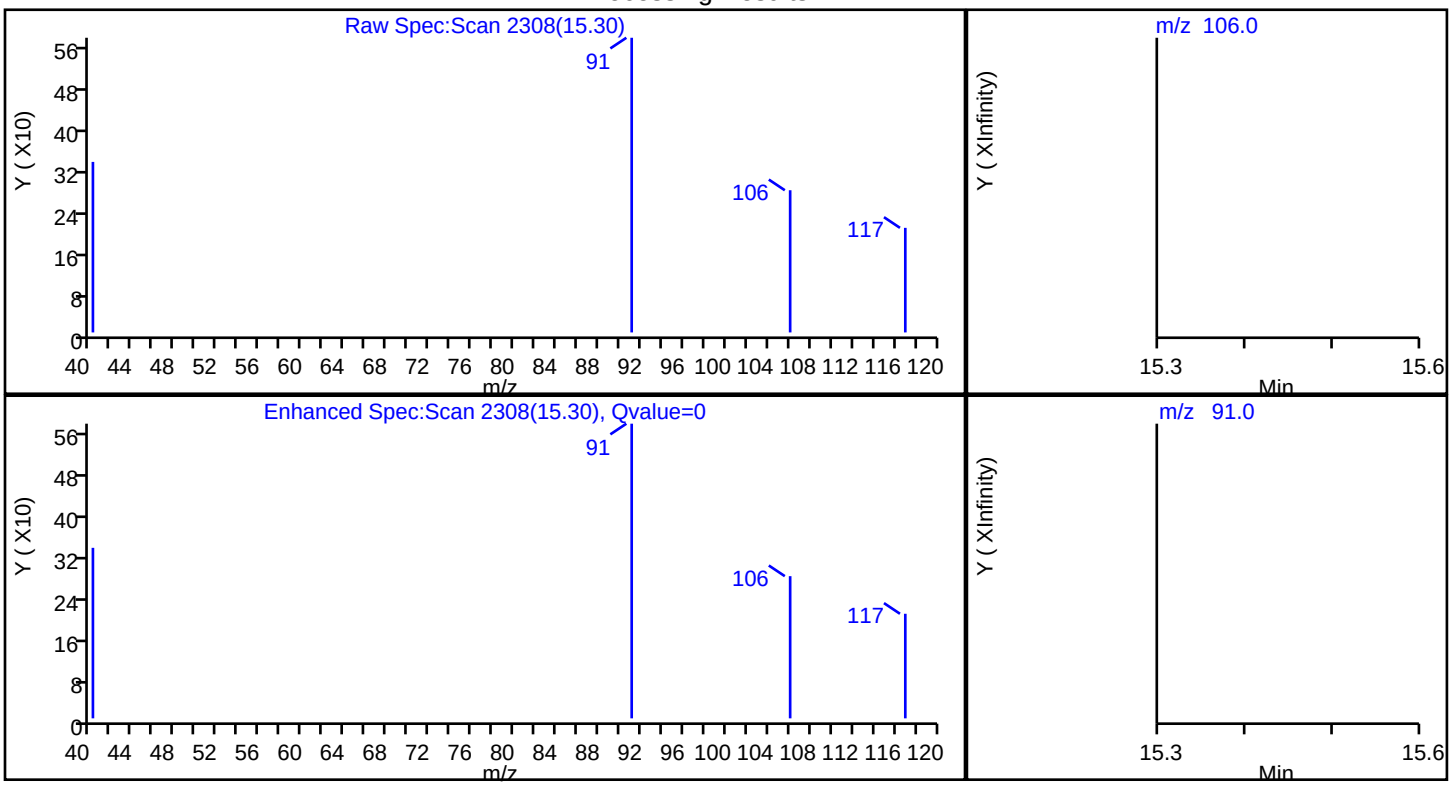
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D				
Injection Date:	15-Oct-2018 18:01:30	Instrument ID:	CHB.i		
Lims ID:	200-45713-A-1	Lab Sample ID:	200-45713-1		
Client ID:	5909				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
15.30	106.00	226	0.013953
15.30	91.00	971	

Reviewer: bunmaa, 16-Oct-2018 18:40:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

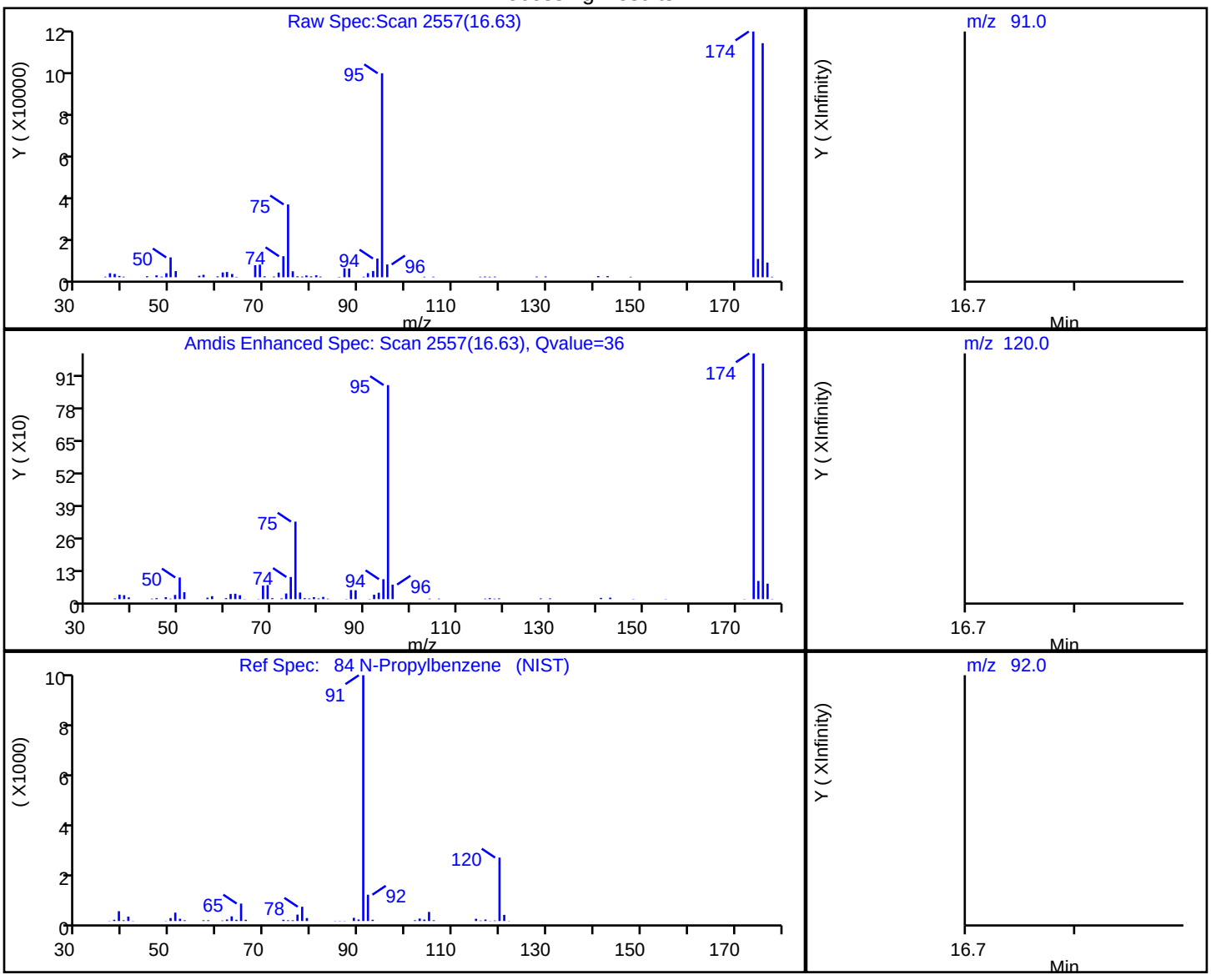
User Disabled Compound Report

TestAmerica Burlington

Data File:	\\ChromNA\Burlington\ChromData\CHB.i\20181015-32636.b\32636-08.D				
Injection Date:	15-Oct-2018 18:01:30	Instrument ID:	CHB.i		
Lims ID:	200-45713-A-1	Lab Sample ID:	200-45713-1		
Client ID:	5909				
Operator ID:	vtp	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_LLNJ_TO3	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

84 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
16.63	91.00	158	0.003241
16.85	120.00	0	
16.62	92.00	3617	

Reviewer: bunmaa, 16-Oct-2018 18:40:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132849/3	31773-03.D
Level 2	IC 200-132849/4	31773-04.D
Level 3	IC 200-132849/5	31773-05.D
Level 4	IC 200-132849/6	31773-06.D
Level 5	ICIS 200-132849/7	31773-07.D
Level 6	IC 200-132849/8	31773-08.D
Level 7	IC 200-132849/9	31773-09.D
Level 8	IC 200-132849/10	31773-10.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								
Propylene	+++++ 0.2760	+++++ 0.2923	+++++ 0.2801	0.2955	0.3034	Ave		0.2895				3.9		30.0			
Dichlorodifluoromethane	+++++ 1.3535	+++++ 1.4225	1.4031 1.3614	1.4077	1.4497	Ave		1.3997				2.6		30.0			
Freon 22	+++++ 0.5814	+++++ 0.6123	0.6035 0.5870	0.6167	0.6339	Ave		0.6058				3.2		30.0			
1,2-Dichlorotetrafluoroethane	+++++ 1.5898	1.6160 1.6536	1.6233 1.5809	1.6445	1.6986	Ave		1.6295				2.5		30.0			
Chloromethane	+++++ 0.3879	+++++ 0.4083	0.4247 0.3924	0.4031	0.4196	Ave		0.4060				3.6		30.0			
n-Butane	+++++ 0.5992	0.7661 0.6395	0.7560 0.6040	0.6355	0.6503	Ave		0.6644				10.3		30.0			
Vinyl chloride	0.4359 0.5629	0.4972 0.5941	0.5800 0.5721	0.5804	0.6055	Ave		0.5535				10.4		30.0			
1,3-Butadiene	+++++ 0.3781	0.3776 0.3976	0.3792 0.3841	0.3890	0.4086	Ave		0.3878				3.0		30.0			
Bromomethane	+++++ 0.7629	0.7598 0.8022	0.7718 0.7848	0.7748	0.8154	Ave		0.7817				2.6		30.0			
Chloroethane	+++++ 0.3498	+++++ 0.3696	0.3452 0.3563	0.3574	0.3731	Ave		0.3586				3.0		30.0			
Isopentane	+++++ 0.5722	0.6030 0.6108	0.6102 0.5831	0.6020	0.6248	Ave		0.6009				3.0		30.0			
Bromoethene(Vinyl Bromide)	+++++ 0.8344	0.7912 0.8761	0.8338 0.8585	0.8362	0.8838	Ave		0.8449				3.7		30.0			
Trichlorofluoromethane	+++++ 1.6239	1.6527 1.7036	1.6534 1.6544	1.6622	1.7305	Ave		1.6687				2.2		30.0			
n-Pentane	+++++ 0.8993	+++++ 0.9532	1.1734 0.9093	0.9438	0.9797	Ave		0.9764				10.3		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

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								
Ethanol	+++++ 0.2601	+++++ 0.2634	0.3346 0.2285	0.2920	0.2955	Ave		0.2790				13.1		30.0			
Ethyl ether	+++++ 0.4367	0.3986 0.4633	0.4369 0.4479	0.4476	0.4702	Ave		0.4430				5.3		30.0			
Acrolein	+++++ 0.2357	+++++ 0.2473	+++++ 0.2253	0.2404	0.2476	Ave		0.2393				3.9		30.0			
Freon TF	+++++ 1.8107	1.7420 1.8933	1.8409 1.8516	1.8427	1.9138	Ave		1.8421				3.0		30.0			
1,1-Dichloroethene	0.6642 0.8812	0.8540 0.9293	0.8938 0.9127	0.8919	0.9323	Ave		0.8699				10.0		30.0			
Acetone	+++++ 0.6789	+++++ 0.7242	+++++ 0.6988	0.7569	0.7563	Ave		0.7230				4.8		30.0			
Isopropyl alcohol	+++++ 0.8174	+++++ 0.8671	+++++ 0.8224	0.8748	0.9652	Ave		0.8694				6.8		30.0			
Carbon disulfide	+++++ 2.1958	+++++ 2.3248	2.2061 2.2680	2.2499	2.3577	Ave		2.2671				2.8		30.0			
3-Chloropropene	+++++ 0.6611	0.6513 0.6791	0.6322 0.6297	0.5772	0.4350	Ave		0.6094				13.7		30.0			
Acetonitrile	+++++ 0.3728	0.3883 0.3784	0.3995 0.3735	0.3697	0.4503	Ave		0.3904				7.3		30.0			
Methylene Chloride	+++++ 0.6095	+++++ 0.6491	0.6858 0.6210	0.6430	0.6602	Ave		0.6448				4.2		30.0			
tert-Butyl alcohol	+++++ 1.2547	+++++ 1.3176	+++++ 1.2664	1.3133	1.4031	Ave		1.3110				4.5		30.0			
Methyl tert-butyl ether	+++++ 2.0176	1.9817 2.1293	1.9965 2.0690	2.0450	2.1449	Ave		2.0549				3.1		30.0			
trans-1,2-Dichloroethene	+++++ 0.9142	0.9001 0.9681	0.9191 0.9359	0.9384	0.9885	Ave		0.9378				3.3		30.0			
Acrylonitrile	+++++ 0.4373	+++++ 0.4661	0.4144 0.4535	0.4466	0.4727	Ave		0.4484				4.7		30.0			
n-Hexane	+++++ 1.0379	1.6559 1.0948	1.3483 1.0524	1.0912	1.1245	Ave		1.2007				18.8		30.0			
1,1-Dichloroethane	0.9574 1.1710	1.1129 1.2372	1.1792 1.1919	1.2092	1.2668	Ave		1.1657				8.2		30.0			
Vinyl acetate	+++++ 1.3123	+++++ 1.3967	+++++ 1.3296	1.3607	1.4428	Ave		1.3684				3.8		30.0			
Methyl Ethyl Ketone	+++++ 0.4005	+++++ 0.4281	0.4378 0.4076	0.4055	0.4314	Ave		0.4185				3.8		30.0			
cis-1,2-Dichloroethene	0.9168 0.9580	0.9404 1.0076	0.9503 0.9863	0.9717	1.0147	Ave		0.9682				3.5		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

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								
Ethyl acetate	+++++ 0.0828	+++++ 0.0872	+++++ 0.0855	0.0840	0.0862	Ave		0.0851				2.0		30.0			
Tetrahydrofuran	+++++ 0.1208	+++++ 0.1290	+++++ 0.1244	0.1256	0.1327	Ave		0.1265				3.6		30.0			
Chloroform	+++++ 1.4963	1.4794 1.5822	1.5275 1.5330	1.5262	1.6008	Ave		1.5351				2.8		30.0			
1,1,1-Trichloroethane	+++++ 0.3249	0.3132 0.3449	0.3265 0.3362	0.3316	0.3478	Ave		0.3322				3.6		30.0			
Cyclohexane	+++++ 0.2512	0.2382 0.2671	0.2477 0.2608	0.2566	0.2690	Ave		0.2558				4.3		30.0			
Carbon tetrachloride	0.2687 0.3554	0.3100 0.3779	0.3330 0.3622	0.3580	0.3803	Ave		0.3432				11.1		30.0			
2,2,4-Trimethylpentane	+++++ 0.6950	0.6916 0.7420	0.7543 0.7144	0.7220	0.7533	Ave		0.7247				3.6		30.0			
Benzene	+++++ 0.5388	0.6147 0.5744	0.5833 0.5608	0.5527	0.5769	Ave		0.5716				4.3		30.0			
1,2-Dichloroethane	+++++ 0.1495	0.1428 0.1594	0.1542 0.1547	0.1550	0.1608	Ave		0.1538				4.0		30.0			
n-Heptane	+++++ 0.2079	0.2183 0.2238	0.2317 0.2123	0.2206	0.2289	Ave		0.2205				3.9		30.0			
n-Butanol	+++++ 0.0955	+++++ 0.1038	+++++ 0.1006	0.1018	0.1118	Ave		0.1027				5.8		30.0			
Trichloroethene	0.2506 0.2482	0.2331 0.2648	0.2481 0.2596	0.2534	0.2641	Ave		0.2527				4.1		30.0			
1,2-Dichloropropane	+++++ 0.1726	0.1672 0.1846	0.1760 0.1784	0.1795	0.1868	Ave		0.1779				3.8		30.0			
Methyl methacrylate	+++++ 0.1787	+++++ 0.1921	0.1705 0.1872	0.1812	0.1905	Ave		0.1834				4.4		30.0			
1,4-Dioxane	+++++ 0.1204	+++++ 0.1261	+++++ 0.1213	0.1297	0.1431	Ave		0.1281				7.2		30.0			
Dibromomethane	+++++ 0.3158	0.3272 0.3372	0.3174 0.3411	0.3153	0.3364	Ave		0.3272				3.4		30.0			
Bromodichloromethane	+++++ 0.3400	0.3178 0.3615	0.3318 0.3503	0.3443	0.3603	Ave		0.3437				4.5		30.0			
cis-1,3-Dichloropropene	+++++ 0.3009	0.2654 0.3222	0.2937 0.3150	0.3048	0.3196	Ave		0.3031				6.5		30.0			
methyl isobutyl ketone	+++++ 0.2604	+++++ 0.2804	0.2518 0.2679	0.2713	0.2834	Ave		0.2692				4.4		30.0			
n-Octane	+++++ 0.2850	0.2903 0.3005	0.3083 0.2720	0.3058	0.3143	Ave		0.2966				5.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

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								
Toluene	+++++ 0.4932	0.5396 0.5206	0.5148 0.5068	0.5027	0.5214	Ave		0.5142				2.9		30.0			
trans-1,3-Dichloropropene	+++++ 0.2611	0.2316 0.2794	0.2408 0.2733	0.2621	0.2720	Ave		0.2601				6.8		30.0			
1,1,2-Trichloroethane	+++++ 0.2201	0.2130 0.2349	0.2237 0.2300	0.2253	0.2342	Ave		0.2259				3.5		30.0			
Tetrachloroethene	0.5377 0.5358	0.5091 0.5623	0.5221 0.5676	0.5222	0.5478	Ave		0.5381				3.8		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2858	+++++ 0.3031	0.3032 0.2948	0.2959	0.3009	Ave		0.2973				2.2		30.0			
Dibromochloromethane	+++++ 0.5512	0.4759 0.5814	0.5044 0.5617	0.5404	0.5581	Ave		0.5390				6.8		30.0			
1,2-Dibromoethane	+++++ 0.4642	0.4413 0.4924	0.4527 0.4900	0.4628	0.4843	Ave		0.4697				4.2		30.0			
Chlorobenzene	+++++ 0.7388	0.7348 0.7750	0.7517 0.7677	0.7395	0.7664	Ave		0.7534				2.2		30.0			
Ethylbenzene	+++++ 1.0445	1.1312 1.0957	1.0985 1.0627	1.0607	1.0971	Ave		1.0843				2.7		30.0			
n-Nonane	+++++ 0.3877	0.3849 0.4059	0.4150 0.3790	0.4076	0.4174	Ave		0.3996				3.9		30.0			
m,p-Xylene	+++++ 0.4605	0.4399 0.4808	0.4540 0.4647	0.4616	0.4791	Ave		0.4629				3.1		30.0			
Xylene, o-	+++++ 0.4454	0.4567 0.4660	0.4530 0.4592	0.4483	0.4644	Ave		0.4562				1.7		30.0			
Styrene	+++++ 0.7339	0.6856 0.7740	0.7003 0.7616	0.7330	0.7587	Ave		0.7353				4.5		30.0			
Bromoform	+++++ 0.6347	0.4860 0.6625	0.5018 0.6049	0.5899	0.5893	Ave		0.5813				11.2		30.0			
Cumene	+++++ 1.2645	1.2191 1.3234	1.2607 1.2661	1.2715	1.3263	Ave		1.2759				2.9		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5834	0.5859 0.6094	0.5930 0.5781	0.5981	0.6260	Ave		0.5963				2.8		30.0			
n-Propylbenzene	+++++ 1.3793	1.3479 1.4159	1.4162 1.3129	1.4146	1.4658	Ave		1.3932				3.6		30.0			
1,2,3-Trichloropropane	+++++ 0.4087	+++++ 0.4243	0.4392 0.3874	0.4252	0.4395	Ave		0.4207				4.7		30.0			
n-Decane	+++++ 0.4746	0.4793 0.5016	0.5334 0.4804	0.5238	0.5240	Ave		0.5025				4.9		30.0			
4-Ethyltoluene	+++++ 1.2398	1.2096 1.2814	1.2581 1.2444	1.2821	1.3289	Ave		1.2635				3.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

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								
2-Chlorotoluene	+++++ 0.9254	0.9215 0.9702	0.9495 0.9230	0.9362	0.9936	Ave		0.9456				2.9		30.0			
1,3,5-Trimethylbenzene	+++++ 0.9818	1.0040 1.0380	1.0309 1.0490	1.0414	1.0756	Ave		1.0315				3.0		30.0			
Alpha Methyl Styrene	+++++ 0.5902	0.5561 0.6211	0.5756 0.6338	0.6135	0.6278	Ave		0.6026				4.8		30.0			
tert-Butylbenzene	+++++ 1.0149	1.0227 1.0618	1.0617 1.0682	1.0703	1.1025	Ave		1.0575				2.8		30.0			
1,2,4-Trimethylbenzene	+++++ 0.9750	0.9764 1.0337	1.0229 1.0504	1.0400	1.0643	Ave		1.0232				3.4		30.0			
sec-Butylbenzene	+++++ 1.4764	1.5829 1.5691	1.5870 1.5665	1.5862	1.6038	Ave		1.5674				2.7		30.0			
4-Isopropyltoluene	+++++ 1.3270	1.3730 1.4211	1.3966 1.4246	1.3988	1.3780	Ave		1.3884				2.4		30.0			
1,3-Dichlorobenzene	+++++ 0.8217	0.8369 0.8736	0.8604 0.9025	0.8591	0.8857	Ave		0.8628				3.2		30.0			
1,4-Dichlorobenzene	+++++ 0.8123	0.8507 0.8747	0.8473 0.9105	0.8590	0.8763	Ave		0.8615				3.5		30.0			
Benzyl chloride	+++++ 0.8025	0.7073 0.9146	0.7349 0.9253	0.8190	0.8512	Ave		0.8221				10.1		30.0			
n-Undecane	+++++ 0.5443	+++++ 0.5721	+++++ 0.5024	0.5741	0.5808	Ave		0.5548				5.8		30.0			
n-Butylbenzene	+++++ 1.0992	1.1015 1.1781	1.1632 1.1547	1.1595	1.1255	Ave		1.1403				2.8		30.0			
1,2-Dichlorobenzene	+++++ 0.7740	0.7926 0.8409	0.8218 0.8700	0.8180	0.8246	Ave		0.8203				3.8		30.0			
n-Dodecane	+++++ 0.4666	0.3894 0.4867	0.4504 +++++	0.4800	0.4718	Ave		0.4575				7.8		30.0			
1,2,4-Trichlorobenzene	+++++ 0.7234	0.5666 0.7930	0.6238 +++++	0.6854	0.7552	Ave		0.6912				12.2		30.0			
Hexachlorobutadiene	+++++ 0.6531	0.6477 0.6831	0.6851 +++++	0.6378	0.6829	Ave		0.6649				3.2		30.0			
Naphthalene	+++++ 1.3025	1.0547 1.5328	1.0955 +++++	1.3252	1.4468	Ave		1.2929				14.6		30.0			
1,2,3-Trichlorobenzene	+++++ 0.6413	0.4736 0.6969	0.5416 +++++	0.6092	0.6791	Ave		0.6069				14.1		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132849/3	31773-03.D
Level 2	IC 200-132849/4	31773-04.D
Level 3	IC 200-132849/5	31773-05.D
Level 4	IC 200-132849/6	31773-06.D
Level 5	ICIS 200-132849/7	31773-07.D
Level 6	IC 200-132849/8	31773-08.D
Level 7	IC 200-132849/9	31773-09.D
Level 8	IC 200-132849/10	31773-10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 108738	+++++ 149541	+++++ 295473	37362	76232	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	+++++ 533265	+++++ 727842	18212 1436081	177981	364250	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	+++++ 229053	+++++ 313307	7833 619202	77976	159277	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	+++++ 626354	8307 846123	21070 1667585	207921	426798	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	+++++ 152820	+++++ 208917	5512 413895	50963	105425	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	+++++ 236087	3938 327204	9813 637136	80350	163410	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	397 221775	2556 303973	7528 603432	73378	152152	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	+++++ 148984	1941 203454	4922 405124	49185	102668	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	+++++ 300557	3906 410469	10018 827858	97960	204888	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	+++++ 137798	+++++ 189125	4481 375817	45188	93754	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	+++++ 225440	3100 312538	7920 615042	76109	156993	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene(Vinyl Bromide)	BCM	Ave	+++++ 328732	4067 448260	10822 905599	105728	222071	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	+++++ 639773	8496 871683	21460 1745052	210152	434814	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	+++++ 354304	+++++ 487747	15230 959129	119325	246170	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	+++++ 136918	+++++ 269643	43481 602549	73888	111418	+++++ 20.0	+++++ 40.0	5.01 100.0	9.99	15.0

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	+++++ 172038	2049 237045	5671 472415	56590	118153	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	+++++ 92871	+++++ 126518	+++++ 237622	30395	62218	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	+++++ 713395	8955 968740	23894 1953145	232976	480868	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	605 347166	4390 475483	11601 962735	112761	234253	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	+++++ 267469	+++++ 370573	+++++ 737094	95702	190038	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	+++++ 322060	+++++ 443685	+++++ 867454	110600	242534	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	+++++ 865115	+++++ 1189538	28635 2392367	284461	592405	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	+++++ 260479	3348 347496	8206 664250	72975	109310	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	+++++ 146889	1996 193642	5185 393973	46742	113135	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	+++++ 240143	+++++ 332111	8902 655063	81298	165878	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	+++++ 494309	+++++ 674183	+++++ 1335826	166049	352546	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	+++++ 794891	10187 1089527	25914 2182369	258552	538947	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	+++++ 360185	4627 495352	11930 987231	118645	248369	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	+++++ 172274	+++++ 238468	5379 478406	56468	118771	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	+++++ 408930	8512 560169	17501 1110057	137958	282547	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	872 461336	5721 633057	15306 1257269	152883	318316	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	+++++ 517008	+++++ 714669	+++++ 1402530	172031	362538	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	+++++ 157801	+++++ 219029	5683 429898	51267	108391	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	835 377453	4834 515557	12335 1040316	122857	254951	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	+++++ 32634	+++++ 44617	+++++ 90169	10620	21649	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Tetrahydrofuran	DFBZ	Ave	+++++ 225332	+++++ 309898	+++++ 610871	74702	157382	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	+++++ 589534	7605 809590	19826 1617069	192966	402221	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	+++++ 605973	7629 828284	20095 1651391	197177	412513	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	+++++ 468497	5801 641395	15244 1281238	152561	319034	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	1157 662947	7550 907623	20495 1779062	212848	451097	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	+++++ 1296393	16847 1781966	46419 3508866	429284	893590	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	+++++ 1005087	14974 1379418	35895 2754428	328639	684269	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	+++++ 278867	3478 382883	9491 759830	92160	190696	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	+++++ 387738	5318 537573	14261 1042764	131163	271560	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	+++++ 178065	+++++ 249315	+++++ 494294	60538	132670	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	1079 462996	5679 635800	15271 1275367	150658	313245	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	+++++ 321996	4072 443339	10833 876531	106751	221567	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	+++++ 333404	+++++ 461243	10495 919316	107764	226015	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	+++++ 224576	+++++ 302860	+++++ 595657	77111	169698	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	+++++ 588997	7969 809861	19534 1675440	187463	399086	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	+++++ 634255	7740 868216	20417 1720862	204748	427363	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	+++++ 561224	6465 773814	18076 1547231	181242	379160	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	+++++ 485758	+++++ 673294	15495 1316154	161338	336147	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	+++++ 531555	7072 721768	18972 1336135	181839	372874	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	+++++ 800790	11414 1096781	27481 2163412	261230	544388	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	+++++ 487086	5641 671048	14818 1342381	155872	322659	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 357320	4505 494891	11943 981783	117074	244531	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	2024 869914	10770 1184484	27871 2422892	271363	571870	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	+++++ 464058	+++++ 638420	16185 1258293	153758	314151	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	+++++ 894894	10067 1224758	26924 2397525	280826	582646	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 753718	9336 1037344	24167 2091444	240497	505627	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	+++++ 1199578	15544 1632659	40123 3277060	384283	800165	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	+++++ 1695952	23929 2308195	58638 4535811	551209	1145411	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	+++++ 629437	8142 855036	22151 1617509	211828	435802	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	+++++ 1495397	18611 2025679	48465 3967210	479769	1000493	+++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	+++++ 723245	9662 981768	24182 1960200	232971	484858	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	+++++ 1191564	14503 1630457	37381 3250722	380902	792119	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	+++++ 1030514	10281 1395619	26784 2582115	306564	615254	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	+++++ 2053061	25788 2787845	67298 5404368	660728	1384654	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 947251	12395 1283813	31654 2467756	310799	653604	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	+++++ 2239462	28513 2982780	75595 5604055	735097	1530311	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	+++++ 663620	+++++ 893794	23445 1653595	220978	458860	+++++ 15.0	+++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	+++++ 770639	10140 1056588	28475 2050543	272191	547111	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	+++++ 2013010	25588 2699447	67155 5311722	666273	1387452	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	+++++ 1502514	19493 2043734	50682 3939697	486483	1037389	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	+++++ 1594033	21238 2186582	55030 4477431	541173	1122979	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	+++++ 958337	11764 1308498	30725 2705367	318821	655395	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	+++++ 1647919	21635 2236812	56674 4559669	556203	1151064	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-45713-1 Analy Batch No.: 132849

SDG No.:

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	+++++ 1583073	20654 2177650	54600 4483502	540460	1111171	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	+++++ 2397190	33484 3305577	84711 6686483	824301	1674369	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	+++++ 2154532	29045 2993634	74552 6080879	726901	1438677	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	+++++ 1334140	17704 1840313	45928 3852387	446428	924733	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	+++++ 1318868	17995 1842694	45228 3886173	446416	914905	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	+++++ 1302925	14962 1926609	39231 3949374	425615	888660	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	+++++ 883754	+++++ 1205270	+++++ 2144616	298350	606386	+++++ 15.0	+++++ 20.0	+++++ 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	+++++ 1784783	23300 2481764	62092 4928915	602562	1175049	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	+++++ 1256725	16767 1771475	43866 3713294	425094	860883	+++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	+++++ 757543	8237 1025275	24044 +++++	249451	492524	+++++ 15.0	0.200 20.0	0.500 +++++	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	+++++ 1174502	11986 1670630	33300 +++++	356166	788444	+++++ 15.0	0.200 20.0	0.500 +++++	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	+++++ 1060348	13701 1438962	36569 +++++	331425	712934	+++++ 15.0	0.200 20.0	0.500 +++++	4.99	10.00
Naphthalene	CBNZ d5	Ave	+++++ 2114765	22310 3228986	58475 +++++	688674	1510461	+++++ 15.0	0.200 20.0	0.500 +++++	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	+++++ 1041188	10018 1468046	28909 +++++	316560	708960	+++++ 15.0	0.200 20.0	0.500 +++++	4.99	10.00

Curve Type Legend:
Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 31773-14.D

Lab ID: ICV 200-132849/14 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Propylene	10.0	8.99	90	70-130	
Dichlorodifluoromethane	10.0	9.61	96	70-130	
Freon 22	10.0	9.55	95	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.3	103	70-130	
Chloromethane	10.0	8.92	89	70-130	
n-Butane	10.0	9.01	90	70-130	
Vinyl chloride	10.0	9.74	97	70-130	
1,3-Butadiene	10.0	9.48	95	70-130	
Bromomethane	10.0	9.73	97	70-130	
Chloroethane	10.0	9.59	96	70-130	
Bromoethene(Vinyl Bromide)	10.0	10.3	103	70-130	
Trichlorofluoromethane	10.0	9.92	99	70-130	
Ethanol	15.0	12.5	83	70-130	
Freon TF	10.0	8.69	87	70-130	
1,1-Dichloroethene	10.0	9.13	91	70-130	
Acetone	10.0	9.10	91	70-130	
Isopropyl alcohol	10.0	8.87	89	70-130	
Carbon disulfide	10.0	9.59	96	70-130	
3-Chloropropene	10.0	7.22	72	70-130	
Methylene Chloride	10.0	8.58	86	70-130	
tert-Butyl alcohol	10.0	9.38	94	70-130	
Methyl tert-butyl ether	10.0	9.51	95	70-130	
trans-1,2-Dichloroethene	10.0	9.70	97	70-130	
n-Hexane	10.0	8.65	86	70-130	
1,1-Dichloroethane	10.0	9.84	98	70-130	
Vinyl acetate	10.0	9.24	92	70-130	
Ethyl acetate	10.0	9.36	94	70-130	
Methyl Ethyl Ketone	10.0	9.32	93	70-130	
cis-1,2-Dichloroethene	10.0	9.38	94	70-130	
Chloroform	10.0	9.35	93	70-130	
Tetrahydrofuran	10.0	9.84	98	70-130	
1,1,1-Trichloroethane	10.0	9.56	96	70-130	
Cyclohexane	10.0	9.82	98	70-130	
Carbon tetrachloride	10.0	10.3	103	70-130	
2,2,4-Trimethylpentane	10.0	9.52	95	70-130	
Benzene	10.0	9.22	92	70-130	
1,2-Dichloroethane	10.0	9.57	96	70-130	
n-Heptane	10.0	9.39	94	70-130	
Trichloroethene	10.0	9.75	97	70-130	
Methyl methacrylate	10.0	9.87	99	70-130	
1,2-Dichloropropane	10.0	9.65	97	70-130	
1,4-Dioxane	10.0	9.02	90	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 31773-14.D

Lab ID: ICV 200-132849/14 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	9.85	99	70-130	
cis-1,3-Dichloropropene	10.0	9.33	93	70-130	
methyl isobutyl ketone	10.0	9.26	93	70-130	
Toluene	10.0	9.95	100	70-130	
trans-1,3-Dichloropropene	10.0	10.3	103	70-130	
1,1,2-Trichloroethane	10.0	10.2	102	70-130	
Tetrachloroethene	10.0	10.3	103	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.38	94	70-130	
Dibromochloromethane	10.0	10.1	101	70-130	
1,2-Dibromoethane	10.0	10.3	103	70-130	
Chlorobenzene	10.0	10.1	101	70-130	
Ethylbenzene	10.0	9.87	99	70-130	
m,p-Xylene	20.0	20.6	103	70-130	
Xylene, o-	10.0	10.3	103	70-130	
Styrene	10.0	10.1	101	70-130	
Bromoform	10.0	10.1	101	70-130	
Cumene	10.0	10.2	102	70-130	
1,1,2,2-Tetrachloroethane	10.0	10.4	104	70-130	
n-Propylbenzene	10.0	10.4	104	70-130	
4-Ethyltoluene	10.0	10.7	107	70-130	
1,3,5-Trimethylbenzene	10.0	10.4	104	70-130	
2-Chlorotoluene	10.0	10.3	103	70-130	
tert-Butylbenzene	10.0	10.4	104	70-130	
1,2,4-Trimethylbenzene	10.0	10.5	105	70-130	
sec-Butylbenzene	10.0	10.1	101	70-130	
4-Isopropyltoluene	10.0	9.91	99	70-130	
1,3-Dichlorobenzene	10.0	10.5	105	70-130	
1,4-Dichlorobenzene	10.0	10.4	104	70-130	
Benzyl chloride	10.0	9.70	97	70-130	
n-Butylbenzene	10.0	9.46	95	70-130	
1,2-Dichlorobenzene	10.0	10.3	103	70-130	
1,2,4-Trichlorobenzene	10.0	11.4	114	70-130	
Hexachlorobutadiene	10.0	10.8	108	70-130	
Naphthalene	10.0	11.1	111	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Lab Sample ID: CCVIS 200-135228/5 Calibration Date: 10/15/2018 15:24

Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/14/2018 00:20

Lab File ID: 32636-05.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.2895	0.3640		12.6	10.0	25.8	30.0
Dichlorodifluoromethane	Ave	1.400	1.584		11.3	10.0	13.2	30.0
Freon 22	Ave	0.6058	0.7091		11.7	10.0	17.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.630	1.752		10.7	10.0	7.5	30.0
Chloromethane	Ave	0.4060	0.4523		11.1	10.0	11.4	30.0
n-Butane	Ave	0.6644	0.7249		10.9	10.0	9.1	30.0
Vinyl chloride	Ave	0.5535	0.6353		11.5	10.0	14.8	30.0
1,3-Butadiene	Ave	0.3878	0.4406		11.4	10.0	13.6	30.0
Bromomethane	Ave	0.7817	0.7800		9.98	10.0	-0.2	30.0
Chloroethane	Ave	0.3586	0.3671		10.2	10.0	2.4	30.0
Isopentane	Ave	0.6009	0.6474		10.8	10.0	7.7	30.0
Bromoethene(Vinyl Bromide)	Ave	0.8449	0.8368		9.90	10.0	-1.0	30.0
Trichlorofluoromethane	Ave	1.669	1.714		10.3	10.0	2.7	30.0
n-Pentane	Ave	0.9764	1.026		10.5	10.0	5.0	30.0
Ethanol	Ave	0.2790	0.2639		14.2	15.0	-5.4	30.0
Ethyl ether	Ave	0.4430	0.4600		10.4	10.0	3.8	30.0
Acrolein	Ave	0.2393	0.2191		9.15	10.0	-8.4	30.0
Freon TF	Ave	1.842	1.817		9.86	10.0	-1.4	30.0
1,1-Dichloroethene	Ave	0.8699	0.9073		10.4	10.0	4.3	30.0
Acetone	Ave	0.7230	0.8101		11.2	10.0	12.0	30.0
Isopropyl alcohol	Ave	0.8694	0.8840		10.2	10.0	1.7	30.0
Carbon disulfide	Ave	2.267	2.339		10.3	10.0	3.2	30.0
3-Chloropropene	Ave	0.6094	0.7516		12.3	10.0	23.3	30.0
Acetonitrile	Ave	0.3904	0.4213		10.8	10.0	7.9	30.0
Methylene Chloride	Ave	0.6448	0.6621		10.3	10.0	2.7	30.0
tert-Butyl alcohol	Ave	1.311	1.295		9.88	10.0	-1.2	30.0
Methyl tert-butyl ether	Ave	2.055	2.109		10.3	10.0	2.6	30.0
trans-1,2-Dichloroethene	Ave	0.9378	0.9742		10.4	10.0	3.9	30.0
Acrylonitrile	Ave	0.4484	0.4772		10.6	10.0	6.4	30.0
n-Hexane	Ave	1.201	1.106		9.21	10.0	-7.9	30.0
1,1-Dichloroethane	Ave	1.166	1.255		10.8	10.0	7.6	30.0
Vinyl acetate	Ave	1.368	1.426		10.4	10.0	4.2	30.0
Methyl Ethyl Ketone	Ave	0.4185	0.4214		10.1	10.0	0.7	30.0
cis-1,2-Dichloroethene	Ave	0.9682	0.9652		9.97	10.0	-0.3	30.0
Ethyl acetate	Ave	0.0851	0.0800		9.40	10.0	-6.0	30.0
Tetrahydrofuran	Ave	0.1265	0.1349		10.7	10.0	6.7	30.0
Chloroform	Ave	1.535	1.568		10.2	10.0	2.2	30.0
1,1,1-Trichloroethane	Ave	0.3322	0.3356		10.1	10.0	1.0	30.0
Cyclohexane	Ave	0.2558	0.2545		9.95	10.0	-0.5	30.0
Carbon tetrachloride	Ave	0.3432	0.2781		8.10	10.0	-19.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Lab Sample ID: CCVIS 200-135228/5 Calibration Date: 10/15/2018 15:24

Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/14/2018 00:20

Lab File ID: 32636-05.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7247	0.7369		10.2	10.0	1.7	30.0
Benzene	Ave	0.5716	0.5561		9.73	10.0	-2.7	30.0
1,2-Dichloroethane	Ave	0.1538	0.1594		10.4	10.0	3.7	30.0
n-Heptane	Ave	0.2205	0.2371		10.8	10.0	7.5	30.0
n-Butanol	Ave	0.1027	0.0893		8.69	10.0	-13.0	30.0
Trichloroethene	Ave	0.2527	0.2502		9.90	10.0	-1.0	30.0
1,2-Dichloropropane	Ave	0.1779	0.1790		10.1	10.0	0.6	30.0
Methyl methacrylate	Ave	0.1834	0.1814		9.89	10.0	-1.1	30.0
1,4-Dioxane	Ave	0.1281	0.1254		9.79	10.0	-2.1	30.0
Dibromomethane	Ave	0.3272	0.3065		9.37	10.0	-6.3	30.0
Bromodichloromethane	Ave	0.3437	0.3464		10.1	10.0	0.8	30.0
cis-1,3-Dichloropropene	Ave	0.3031	0.3108		10.3	10.0	2.5	30.0
methyl isobutyl ketone	Ave	0.2692	0.2860		10.6	10.0	6.2	30.0
n-Octane	Ave	0.2966	0.3274		11.0	10.0	10.4	30.0
Toluene	Ave	0.5142	0.5170		10.1	10.0	0.6	30.0
trans-1,3-Dichloropropene	Ave	0.2601	0.2703		10.4	10.0	3.9	30.0
1,1,2-Trichloroethane	Ave	0.2259	0.2258		9.99	10.0	-0.0	30.0
Tetrachloroethene	Ave	0.5381	0.5217		9.69	10.0	-3.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2973	0.3138		10.6	10.0	5.6	30.0
Dibromochloromethane	Ave	0.5390	0.5418		10.0	10.0	0.5	30.0
1,2-Dibromoethane	Ave	0.4697	0.4660		9.92	10.0	-0.8	30.0
Chlorobenzene	Ave	0.7534	0.7471		9.91	10.0	-0.8	30.0
Ethylbenzene	Ave	1.084	1.079		9.95	10.0	-0.5	30.0
n-Nonane	Ave	0.3996	0.4211		10.5	10.0	5.4	30.0
m,p-Xylene	Ave	0.4629	0.4709		20.3	20.0	1.7	30.0
Xylene, o-	Ave	0.4562	0.4561		10.0	10.0	-0.0	30.0
Styrene	Ave	0.7353	0.7309		9.94	10.0	-0.6	30.0
Bromoform	Ave	0.5813	0.5883		10.1	10.0	1.2	30.0
Cumene	Ave	1.276	1.278		10.0	10.0	0.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5963	0.5923		9.93	10.0	-0.7	30.0
n-Propylbenzene	Ave	1.393	1.412		10.1	10.0	1.4	30.0
1,2,3-Trichloropropane	Ave	0.4207	0.4320		10.3	10.0	2.7	30.0
n-Decane	Ave	0.5025	0.5192		10.3	10.0	3.3	30.0
4-Ethyltoluene	Ave	1.263	1.270		10.0	10.0	0.5	30.0
2-Chlorotoluene	Ave	0.9456	0.9611		10.2	10.0	1.6	30.0
1,3,5-Trimethylbenzene	Ave	1.032	1.034		10.0	10.0	0.3	30.0
Alpha Methyl Styrene	Ave	0.6026	0.5607		9.30	10.0	-7.0	30.0
tert-Butylbenzene	Ave	1.057	1.042		9.85	10.0	-1.5	30.0
1,2,4-Trimethylbenzene	Ave	1.023	1.010		9.87	10.0	-1.3	30.0
sec-Butylbenzene	Ave	1.567	1.519		9.69	10.0	-3.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Lab Sample ID: CCVIS 200-135228/5 Calibration Date: 10/15/2018 15:24

Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 08/14/2018 00:20

Lab File ID: 32636-05.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.388	1.285		9.25	10.0	-7.4	30.0
1,3-Dichlorobenzene	Ave	0.8628	0.8307		9.63	10.0	-3.7	30.0
1,4-Dichlorobenzene	Ave	0.8615	0.8251		9.57	10.0	-4.2	30.0
Benzyl chloride	Ave	0.8221	0.8162		9.93	10.0	-0.7	30.0
n-Undecane	Ave	0.5548	0.5369		9.68	10.0	-3.2	30.0
n-Butylbenzene	Ave	1.140	1.055		9.25	10.0	-7.5	30.0
1,2-Dichlorobenzene	Ave	0.8203	0.7612		9.28	10.0	-7.2	30.0
n-Dodecane	Ave	0.4575	0.3040		6.64	10.0	-33.5*	30.0
1,2,4-Trichlorobenzene	Ave	0.6912	0.6168		8.92	10.0	-10.8	30.0
Hexachlorobutadiene	Ave	0.6649	0.5684		8.55	10.0	-14.5	30.0
Naphthalene	Ave	1.293	1.041		8.05	10.0	-19.5	30.0
1,2,3-Trichlorobenzene	Ave	0.6069	0.5257		8.66	10.0	-13.4	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Instrument ID: CHB.i Start Date: 08/13/2018 16:24

Analysis Batch Number: 132849 End Date: 08/14/2018 05:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-132849/1		08/13/2018 16:24	1	31773-01.D	RTX-624 0.32(mm)
VIBLK 200-132849/2		08/13/2018 17:14	1		RTX-624 0.32(mm)
IC 200-132849/3		08/13/2018 18:07	1	31773-03.D	RTX-624 0.32(mm)
IC 200-132849/4		08/13/2018 19:00	1	31773-04.D	RTX-624 0.32(mm)
IC 200-132849/5		08/13/2018 19:54	1	31773-05.D	RTX-624 0.32(mm)
IC 200-132849/6		08/13/2018 20:47	1	31773-06.D	RTX-624 0.32(mm)
ICIS 200-132849/7		08/13/2018 21:40	1	31773-07.D	RTX-624 0.32(mm)
IC 200-132849/8		08/13/2018 22:34	1	31773-08.D	RTX-624 0.32(mm)
IC 200-132849/9		08/13/2018 23:27	1	31773-09.D	RTX-624 0.32(mm)
IC 200-132849/10		08/14/2018 00:20	1	31773-10.D	RTX-624 0.32(mm)
VIBLK 200-132849/11		08/14/2018 01:14	1		RTX-624 0.32(mm)
VIBLK 200-132849/12		08/14/2018 02:07	1		RTX-624 0.32(mm)
VIBLK 200-132849/13		08/14/2018 03:00	1		RTX-624 0.32(mm)
ICV 200-132849/14		08/14/2018 03:53	1	31773-14.D	RTX-624 0.32(mm)
ZZZZZ		08/14/2018 04:46	1		RTX-624 0.32(mm)
ZZZZZ		08/14/2018 05:39	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45713-1

SDG No.:

Instrument ID: CHB.i Start Date: 10/15/2018 14:27

Analysis Batch Number: 135228 End Date: 10/16/2018 10:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-135228/4		10/15/2018 14:27	1	32636-04.D	RTX-624 0.32(mm)
CCVIS 200-135228/5		10/15/2018 15:24	1	32636-05.D	RTX-624 0.32(mm)
LCS 200-135228/6		10/15/2018 16:16	1	32636-06.D	RTX-624 0.32(mm)
MB 200-135228/7		10/15/2018 17:09	1	32636-07.D	RTX-624 0.32(mm)
200-45713-1		10/15/2018 18:01	1	32636-08.D	RTX-624 0.32(mm)
ZZZZZ		10/15/2018 18:54	10		RTX-624 0.32(mm)
ZZZZZ		10/15/2018 19:46	10		RTX-624 0.32(mm)
ZZZZZ		10/15/2018 20:49	0.2		RTX-624 0.32(mm)
ZZZZZ		10/15/2018 21:51	0.2		RTX-624 0.32(mm)
ZZZZZ		10/15/2018 22:43	10		RTX-624 0.32(mm)
ZZZZZ		10/15/2018 23:35	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 00:28	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 01:30	0.2		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 02:22	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 03:14	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 04:06	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 05:09	0.2		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 06:02	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 06:54	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 07:46	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 08:50	0.2		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 09:42	10		RTX-624 0.32(mm)
ZZZZZ		10/16/2018 10:34	10		RTX-624 0.32(mm)

TO-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-170982-1

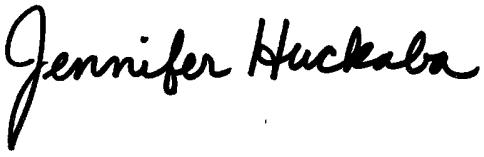
SDG Number: EJ1815811.001

Job Description: Wawa 9999-23

Contract Number: No Number

For:
Whitestone Associates, Inc.
35 Technology Dr
Warren, NJ 07059

Attention: Mike Marsicano



Approved for release.
Jennifer Huckaba
Project Manager II
2/24/2019 4:04 PM

Jennifer Huckaba, Project Manager II
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02/24/2019
Revision: 1

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CASE NARRATIVE

Client: Whitestone Associates, Inc.

Project: Wawa 9999-23

Report Number: 460-170982-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to 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.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

REVISED REPORT
This is a revised report to include additional compounds from the TCL list that were inadvertantly not set up to report. This report replaces the final that was generated on 12-17-18 at 1106pm.

RECEIPT
The samples were received on 12/6/2018 1:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.2° C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples 9999-23-MW01-GW01-12052018 (460-170982-1), 9999-23-MW02-GW01-12052018 (460-170982-2), 9999-23-MW03-GW01-12052018 (460-170982-3), 9999-23-FB-BK01-12052018 (460-170982-4) and 9999-23-TB-BK01-12052018 (460-170982-5) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 12/16/2018.

4. The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 460-576213 recovered outside control limits for the following analyte: Dichlorodifluoromethane.

4. The continuing calibration verification (CCV) associated with batch 460-576213 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

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

SEMIVOLATILE ORGANIC COMPOUNDS
Samples 9999-23-MW01-GW01-12052018 (460-170982-1), 9999-23-MW02-GW01-12052018 (460-170982-2), 9999-23-MW03-GW01-12052018 (460-170982-3) and 9999-23-FB-BK01-12052018 (460-170982-4) were analyzed for Semivolatile Organic Compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 12/10/2018 and analyzed on 12/11/2018.

4. Di-n-octyl phthalate failed the recovery criteria high for LCS 460-574537/2-A. Butyl benzyl phthalate, Di-n-butyl phthalate and Di-n-octyl phthalate failed the recovery criteria high in the LCSD 460-574537/3-A. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

4. For LCSD 460-574537/3-A, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline and N-Nitrosodiphenylamine failed the recovery criteria low. Also, 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline and N-Nitrosodiphenylamine exceeded the RPD limit. The LCS recovery was within limits; therefore, the data have been reported.

4. The continuing calibration verification (CCV) associated with batch 460-574741 recovered above the upper control limit for 2-Nitroaniline and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

6. The full 8270 DKQP analyte list was not reported. Only those analytes requested on the chain of custody by the client were reported.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS SIM)

Samples 9999-23-MW01-GW01-12052018 (460-170982-1), 9999-23-MW02-GW01-12052018 (460-170982-2), 9999-23-MW03-GW01-12052018 (460-170982-3) and 9999-23-FB-BK01-12052018 (460-170982-4) were analyzed for Semivolatile Organic Compounds (GC/MS SIM) in accordance with EPA SW-846 Method 8270 SIM. The samples were prepared on 12/10/2018 and analyzed on 12/15/2018.

4. The laboratory control sample (LCS) and/or lab control sample duplicate (LCSD) associated with preparation batch 460-574537 and analytical batch 460-574646 was outside DKQP recovery criteria but with laboratory generated limits for the following analytes: Acenaphthene, Acenaphthylene, Benzo[g,h,i]perylene, Bis(2-chloroethyl)ether, Dibenz(a,h)anthracene, Fluorene and Indeno[1,2,3-cd]pyrene. The data has been reported.

Acenaphthene, Acenaphthylene and Fluorene failed the recovery criteria low for LCS 460-574537/6-A. Benzo[g,h,i]perylene, Bis(2-chloroethyl)ether, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene failed the recovery criteria high.

Acenaphthylene and Fluorene failed the recovery criteria low for LCSD 460-574537/7-A. Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene failed the recovery criteria high.

4. The continuing calibration verification (CCV) analyzed in batch 460-574646 was outside the method criteria for the following analytes: Acenaphthene, Indeno[1,2,3-cd]pyrene, Anthracene, Phenanthrene, Benzo[g,h,i]perylene, Acenaphthylene, Dibenz(a,h)anthracene and Fluorene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes are considered estimated.

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

METALS (ICP/MS)

Samples 9999-23-MW01-GW01-12052018 (460-170982-1), 9999-23-MW02-GW01-12052018 (460-170982-2), 9999-23-MW03-GW01-12052018 (460-170982-3) and 9999-23-FB-BK01-12052018 (460-170982-4) were analyzed for Metals (ICP/MS) in accordance with EPA SW-846 Method 6020B. The samples were prepared and analyzed on 12/13/2018.

4. The presence of the '4' qualifier in Batch 460-575571 (QC sample 460-170953-F-11 MS) indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

4. Copper exceeded the RPD limit for the duplicate of sample 460-170953-11.

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

MERCURY

Samples 9999-23-MW01-GW01-12052018 (460-170982-1), 9999-23-MW02-GW01-12052018 (460-170982-2), 9999-23-MW03-GW01-12052018 (460-170982-3) and 9999-23-FB-BK01-12052018 (460-170982-4) were analyzed for mercury in accordance with EPA SW-846 Method 7470A. The samples were prepared and analyzed on 12/14/2018.

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

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: TestAmerica Edison

Client: Whitestone Associates, Inc.

Project Location: Wawa 9999-23

Project Number: 460-170982-1

Laboratory Sample ID(s): 460-170982-1, 460-170982-2, 460-170982-3, 460-170982-4, 460-170982-5

Sampling Date(s): 12/05/2018

List DKQP Methods Used: 8260C, 8270D, 8270D SIM, 6020B, 7470A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑Yes ☐No
1A	Were the method specified handling, preservation, and holding time requirements met?	☑Yes ☐No ☐ See case narrative
1B	*EPH Method:* Was the EPH method conducted without significant modifications? (see Section 11.3 of respective DKQ methods)	☐Yes ☐No ☑N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody documents(s)?	☑Yes ☐No ☐ See case narrative
3	Were samples received at an appropriate temperature (4±2° C)?	☑Yes ☐No ☐N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐Yes ☑No
5	a) Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	☐Yes ☑No ☐ See case narrative
	b) Were these reporting limits met?	☐Yes ☐No ☑N/A ☐ See case narrative
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☐Yes ☑No
7	Are project-specific matrix spike and/or laboratory duplicates included in this data set?	☐Yes ☑No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet requirements for "Data of Known Quality."

Sample Summary

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-170982-1	9999-23-MW01-GW01-12052018	Water	12/05/18 12:10	12/06/18 13:50
460-170982-2	9999-23-MW02-GW01-12052018	Water	12/05/18 09:00	12/06/18 13:50
460-170982-3	9999-23-MW03-GW01-12052018	Water	12/05/18 10:30	12/06/18 13:50
460-170982-4	9999-23-FB-BK01-12052018	Water	12/05/18 15:00	12/06/18 13:50
460-170982-5	9999-23-TB-BK01-12052018	Water	12/05/18 00:00	12/06/18 13:50

Detection Summary

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 — Lab Sample ID: 460-170982-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	15300		40.0	18.8	ug/L	2		6020B	Total/NA
Antimony	0.55	J	2.0	0.40	ug/L	2		6020B	Total/NA
Arsenic	12.6		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	360		4.0	1.2	ug/L	2		6020B	Total/NA
Beryllium	1.1		0.80	0.25	ug/L	2		6020B	Total/NA
Calcium	15200		200	98.8	ug/L	2		6020B	Total/NA
Chromium	160		4.0	2.3	ug/L	2		6020B	Total/NA
Cobalt	22.6		4.0	1.6	ug/L	2		6020B	Total/NA
Copper	16.0		4.0	2.0	ug/L	2		6020B	Total/NA
Iron	25600		120	51.1	ug/L	2		6020B	Total/NA
Lead	16.3		1.2	0.55	ug/L	2		6020B	Total/NA
Magnesium	5250		200	73.7	ug/L	2		6020B	Total/NA
Manganese	368		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	54.8		4.0	2.4	ug/L	2		6020B	Total/NA
Potassium	7130		200	86.7	ug/L	2		6020B	Total/NA
Sodium	33600		200	128	ug/L	2		6020B	Total/NA
Thallium	0.29	J	0.80	0.16	ug/L	2		6020B	Total/NA
Vanadium	52.1		4.0	1.1	ug/L	2		6020B	Total/NA
Zinc	23.0		16.0	11.1	ug/L	2		6020B	Total/NA
Mercury	0.73		0.20	0.12	ug/L	1		7470A	Total/NA

Client Sample ID: 9999-23-MW02-GW01-12052018 — Lab Sample ID: 460-170982-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	18600		40.0	18.8	ug/L	2		6020B	Total/NA
Antimony	0.85	J	2.0	0.40	ug/L	2		6020B	Total/NA
Arsenic	18.7		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	93.5		4.0	1.2	ug/L	2		6020B	Total/NA
Beryllium	1.3		0.80	0.25	ug/L	2		6020B	Total/NA
Calcium	10800		200	98.8	ug/L	2		6020B	Total/NA
Chromium	449		4.0	2.3	ug/L	2		6020B	Total/NA
Cobalt	6.9		4.0	1.6	ug/L	2		6020B	Total/NA
Copper	28.4		4.0	2.0	ug/L	2		6020B	Total/NA
Iron	39700		120	51.1	ug/L	2		6020B	Total/NA
Lead	9.5		1.2	0.55	ug/L	2		6020B	Total/NA
Magnesium	2640		200	73.7	ug/L	2		6020B	Total/NA
Manganese	119		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	167		4.0	2.4	ug/L	2		6020B	Total/NA
Potassium	5240		200	86.7	ug/L	2		6020B	Total/NA
Sodium	131000		200	128	ug/L	2		6020B	Total/NA
Thallium	0.20	J	0.80	0.16	ug/L	2		6020B	Total/NA
Vanadium	61.6		4.0	1.1	ug/L	2		6020B	Total/NA
Zinc	27.4		16.0	11.1	ug/L	2		6020B	Total/NA
Mercury	0.21		0.20	0.12	ug/L	1		7470A	Total/NA

Client Sample ID: 9999-23-MW03-GW01-12052018 — Lab Sample ID: 460-170982-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4		5.0	5.0	ug/L	1		8260C	Total/NA
Aluminum	31600		40.0	18.8	ug/L	2		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 9999-23-MW03-GW01-12052018 (Continued) — Lab Sample ID: 460-170982-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.3	J	2.0	0.40	ug/L	2		6020B	Total/NA
Arsenic	29.5		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	192		4.0	1.2	ug/L	2		6020B	Total/NA
Beryllium	1.9		0.80	0.25	ug/L	2		6020B	Total/NA
Calcium	50200		200	98.8	ug/L	2		6020B	Total/NA
Chromium	322		4.0	2.3	ug/L	2		6020B	Total/NA
Cobalt	5.2		4.0	1.6	ug/L	2		6020B	Total/NA
Copper	34.6		4.0	2.0	ug/L	2		6020B	Total/NA
Iron	63200		120	51.1	ug/L	2		6020B	Total/NA
Lead	22.3		1.2	0.55	ug/L	2		6020B	Total/NA
Magnesium	13700		200	73.7	ug/L	2		6020B	Total/NA
Manganese	111		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	113		4.0	2.4	ug/L	2		6020B	Total/NA
Potassium	8880		200	86.7	ug/L	2		6020B	Total/NA
Selenium	7.9	J	10.0	5.4	ug/L	2		6020B	Total/NA
Sodium	23800		200	128	ug/L	2		6020B	Total/NA
Thallium	0.34	J	0.80	0.16	ug/L	2		6020B	Total/NA
Vanadium	112		4.0	1.1	ug/L	2		6020B	Total/NA
Zinc	31.4		16.0	11.1	ug/L	2		6020B	Total/NA

Client Sample ID: 9999-23-FB-BK01-12052018 — Lab Sample ID: 460-170982-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	196	J	200	86.7	ug/L	2		6020B	Total/NA

Client Sample ID: 9999-23-TB-BK01-12052018 — Lab Sample ID: 460-170982-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.1		1.0	0.32	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: 9999-23-MW01-GW01-12052018

Date Collected: 12/05/18 12:10
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			12/16/18 16:57	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/16/18 16:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/16/18 16:57	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 16:57	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			12/16/18 16:57	1
1,1-Dichloroethene	0.12	U	1.0	0.12	ug/L			12/16/18 16:57	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			12/16/18 16:57	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			12/16/18 16:57	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			12/16/18 16:57	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			12/16/18 16:57	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/16/18 16:57	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 16:57	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			12/16/18 16:57	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			12/16/18 16:57	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/16/18 16:57	1
1,4-Dioxane	28	U	50	28	ug/L			12/16/18 16:57	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			12/16/18 16:57	1
2-Hexanone	2.9	U	5.0	2.9	ug/L			12/16/18 16:57	1
4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7	ug/L			12/16/18 16:57	1
Acetone	5.0	U	5.0	5.0	ug/L			12/16/18 16:57	1
Benzene	0.43	U	1.0	0.43	ug/L			12/16/18 16:57	1
Bromochloromethane	0.41	U	1.0	0.41	ug/L			12/16/18 16:57	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			12/16/18 16:57	1
Bromoform	0.54	U	1.0	0.54	ug/L			12/16/18 16:57	1
Bromomethane	1.0	U	1.0	1.0	ug/L			12/16/18 16:57	1
Carbon disulfide	0.16	U	1.0	0.16	ug/L			12/16/18 16:57	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			12/16/18 16:57	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			12/16/18 16:57	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/16/18 16:57	1
Chloroform	0.33	U	1.0	0.33	ug/L			12/16/18 16:57	1
Chloromethane	0.14	U	1.0	0.14	ug/L			12/16/18 16:57	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			12/16/18 16:57	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			12/16/18 16:57	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			12/16/18 16:57	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			12/16/18 16:57	1
Dichlorodifluoromethane	0.12	U *	1.0	0.12	ug/L			12/16/18 16:57	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			12/16/18 16:57	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			12/16/18 16:57	1
Methyl acetate	0.31	U	5.0	0.31	ug/L			12/16/18 16:57	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			12/16/18 16:57	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			12/16/18 16:57	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			12/16/18 16:57	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			12/16/18 16:57	1
o-Xylene	0.36	U	1.0	0.36	ug/L			12/16/18 16:57	1
Styrene	0.42	U	1.0	0.42	ug/L			12/16/18 16:57	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			12/16/18 16:57	1
Toluene	0.38	U	1.0	0.38	ug/L			12/16/18 16:57	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			12/16/18 16:57	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			12/16/18 16:57	1

Client Sample ID: 9999-23-MW01-GW01-12052018
Date Collected: 12/05/18 12:10
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.31	U	1.0	0.31	ug/L			12/16/18 16:57	1
Trichlorofluoromethane	0.14	U	1.0	0.14	ug/L			12/16/18 16:57	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			12/16/18 16:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/16/18 16:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*12/16/18 16:57*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/16/18 16:57*	*1*
4-Bromofluorobenzene	*98*		*70 - 130*		*12/16/18 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*12/16/18 16:57*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	U *	0.050	0.014	ug/L		12/10/18 09:58	12/15/18 08:59	1
Acenaphthylene	0.015	U *	0.050	0.015	ug/L		12/10/18 09:58	12/15/18 08:59	1
Anthracene	0.0092	U	0.050	0.0092	ug/L		12/10/18 09:58	12/15/18 08:59	1
Benzo[a]anthracene	0.016	U	0.050	0.016	ug/L		12/10/18 09:58	12/15/18 08:59	1
Benzo[a]pyrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 08:59	1
Benzo[b]fluoranthene	0.024	U	0.050	0.024	ug/L		12/10/18 09:58	12/15/18 08:59	1
Benzo[g,h,i]perylene	0.035	U *	0.050	0.035	ug/L		12/10/18 09:58	12/15/18 08:59	1
Benzo[k]fluoranthene	0.028	U	0.050	0.028	ug/L		12/10/18 09:58	12/15/18 08:59	1
Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026	ug/L		12/10/18 09:58	12/15/18 08:59	1
Chrysene	0.030	U	0.050	0.030	ug/L		12/10/18 09:58	12/15/18 08:59	1
Dibenz(a,h)anthracene	0.011	U *	0.050	0.011	ug/L		12/10/18 09:58	12/15/18 08:59	1
Fluoranthene	0.039	U	0.050	0.039	ug/L		12/10/18 09:58	12/15/18 08:59	1
Fluorene	0.012	U *	0.050	0.012	ug/L		12/10/18 09:58	12/15/18 08:59	1
Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036	ug/L		12/10/18 09:58	12/15/18 08:59	1
Naphthalene	0.12	U	0.20	0.12	ug/L		12/10/18 09:58	12/15/18 08:59	1
Phenanthrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 08:59	1
Pyrene	0.031	U	0.050	0.031	ug/L		12/10/18 09:58	12/15/18 08:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 12:56	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		12/10/18 09:58	12/11/18 12:56	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		12/10/18 09:58	12/11/18 12:56	1
2,6-Dinitrotoluene	0.39	U	2.0	0.39	ug/L		12/10/18 09:58	12/11/18 12:56	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 12:56	1
2-Methylnaphthalene	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 12:56	1
2-Nitroaniline	0.47	U *	10	0.47	ug/L		12/10/18 09:58	12/11/18 12:56	1
3,3'-Dichlorobenzidine	1.4	U *	10	1.4	ug/L		12/10/18 09:58	12/11/18 12:56	1
3-Nitroaniline	0.96	U *	10	0.96	ug/L		12/10/18 09:58	12/11/18 12:56	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		12/10/18 09:58	12/11/18 12:56	1
4-Chloroaniline	1.9	U *	10	1.9	ug/L		12/10/18 09:58	12/11/18 12:56	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		12/10/18 09:58	12/11/18 12:56	1
4-Nitroaniline	0.54	U *	10	0.54	ug/L		12/10/18 09:58	12/11/18 12:56	1
Acetophenone	0.79	U	10	0.79	ug/L		12/10/18 09:58	12/11/18 12:56	1
Atrazine	1.3	U *	2.0	1.3	ug/L		12/10/18 09:58	12/11/18 12:56	1

Client Sample ID: 9999-23-MW01-GW01-12052018

Date Collected: 12/05/18 12:10
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	0.59	U *	10	0.59	ug/L		12/10/18 09:58	12/11/18 12:56	1
Bis(2-chloroethoxy)methane	0.24	U	10	0.24	ug/L		12/10/18 09:58	12/11/18 12:56	1
Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7	ug/L		12/10/18 09:58	12/11/18 12:56	1
Butyl benzyl phthalate	0.85	U *	10	0.85	ug/L		12/10/18 09:58	12/11/18 12:56	1
Caprolactam	0.68	U *	10	0.68	ug/L		12/10/18 09:58	12/11/18 12:56	1
Carbazole	0.68	U	10	0.68	ug/L		12/10/18 09:58	12/11/18 12:56	1
Dibenzofuran	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 12:56	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		12/10/18 09:58	12/11/18 12:56	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		12/10/18 09:58	12/11/18 12:56	1
Di-n-butyl phthalate	0.84	U *	10	0.84	ug/L		12/10/18 09:58	12/11/18 12:56	1
Di-n-octyl phthalate	4.8	U *	10	4.8	ug/L		12/10/18 09:58	12/11/18 12:56	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		12/10/18 09:58	12/11/18 12:56	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		12/10/18 09:58	12/11/18 12:56	1
Hexachlorocyclopentadiene	1.7	U	10	1.7	ug/L		12/10/18 09:58	12/11/18 12:56	1
Hexachloroethane	1.2	U	2.0	1.2	ug/L		12/10/18 09:58	12/11/18 12:56	1
Isophorone	0.80	U	10	0.80	ug/L		12/10/18 09:58	12/11/18 12:56	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		12/10/18 09:58	12/11/18 12:56	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		12/10/18 09:58	12/11/18 12:56	1
N-Nitrosodiphenylamine	0.89	U *	10	0.89	ug/L		12/10/18 09:58	12/11/18 12:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*12/10/18 09:58*	*12/11/18 12:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*30 - 130*	*12/10/18 09:58*	*12/11/18 12:56*	*1*
Nitrobenzene-d5	*79*		*30 - 130*	*12/10/18 09:58*	*12/11/18 12:56*	*1*
Terphenyl-d14	*56*		*30 - 130*	*12/10/18 09:58*	*12/11/18 12:56*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15300**		40.0	18.8	ug/L		12/13/18 09:45	12/13/18 20:01	2
Antimony	**0.55**	**J**	2.0	0.40	ug/L		12/13/18 09:45	12/13/18 20:01	2
Arsenic	**12.6**		2.0	0.73	ug/L		12/13/18 09:45	12/13/18 20:01	2
Barium	**360**		4.0	1.2	ug/L		12/13/18 09:45	12/13/18 20:01	2
Beryllium	**1.1**		0.80	0.25	ug/L		12/13/18 09:45	12/13/18 20:01	2
Cadmium	0.81	U	2.0	0.81	ug/L		12/13/18 09:45	12/13/18 20:01	2
Calcium	**15200**		200	98.8	ug/L		12/13/18 09:45	12/13/18 20:01	2
Chromium	**160**		4.0	2.3	ug/L		12/13/18 09:45	12/13/18 20:01	2
Cobalt	**22.6**		4.0	1.6	ug/L		12/13/18 09:45	12/13/18 20:01	2
Copper	**16.0**		4.0	2.0	ug/L		12/13/18 09:45	12/13/18 20:01	2
Iron	**25600**		120	51.1	ug/L		12/13/18 09:45	12/13/18 20:01	2
Lead	**16.3**		1.2	0.55	ug/L		12/13/18 09:45	12/13/18 20:01	2
Magnesium	**5250**		200	73.7	ug/L		12/13/18 09:45	12/13/18 20:01	2
Manganese	**368**		8.0	2.9	ug/L		12/13/18 09:45	12/13/18 20:01	2
Nickel	**54.8**		4.0	2.4	ug/L		12/13/18 09:45	12/13/18 20:01	2
Potassium	**7130**		200	86.7	ug/L		12/13/18 09:45	12/13/18 20:01	2
Selenium	5.4	U	10.0	5.4	ug/L		12/13/18 09:45	12/13/18 20:01	2
Silver	0.59	U	2.0	0.59	ug/L		12/13/18 09:45	12/13/18 20:01	2
Sodium	**33600**		200	128	ug/L		12/13/18 09:45	12/13/18 20:01	2
Thallium	**0.29**	**J**	0.80	0.16	ug/L		12/13/18 09:45	12/13/18 20:01	2

Client Sample ID: 9999-23-MW01-GW01-12052018
Date Collected: 12/05/18 12:10
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-1
Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	52.1		4.0	1.1	ug/L		12/13/18 09:45	12/13/18 20:01	2
Zinc	23.0		16.0	11.1	ug/L		12/13/18 09:45	12/13/18 20:01	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.73		0.20	0.12	ug/L		12/14/18 13:09	12/14/18 15:13	1

Client Sample ID: 9999-23-MW02-GW01-12052018

Date Collected: 12/05/18 09:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			12/16/18 17:21	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/16/18 17:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/16/18 17:21	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 17:21	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			12/16/18 17:21	1
1,1-Dichloroethene	0.12	U	1.0	0.12	ug/L			12/16/18 17:21	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			12/16/18 17:21	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			12/16/18 17:21	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			12/16/18 17:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			12/16/18 17:21	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/16/18 17:21	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 17:21	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			12/16/18 17:21	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			12/16/18 17:21	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/16/18 17:21	1
1,4-Dioxane	28	U	50	28	ug/L			12/16/18 17:21	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			12/16/18 17:21	1
2-Hexanone	2.9	U	5.0	2.9	ug/L			12/16/18 17:21	1
4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7	ug/L			12/16/18 17:21	1
Acetone	5.0	U	5.0	5.0	ug/L			12/16/18 17:21	1
Benzene	0.43	U	1.0	0.43	ug/L			12/16/18 17:21	1
Bromochloromethane	0.41	U	1.0	0.41	ug/L			12/16/18 17:21	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			12/16/18 17:21	1
Bromoform	0.54	U	1.0	0.54	ug/L			12/16/18 17:21	1
Bromomethane	1.0	U	1.0	1.0	ug/L			12/16/18 17:21	1
Carbon disulfide	0.16	U	1.0	0.16	ug/L			12/16/18 17:21	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			12/16/18 17:21	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			12/16/18 17:21	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/16/18 17:21	1
Chloroform	0.33	U	1.0	0.33	ug/L			12/16/18 17:21	1
Chloromethane	0.14	U	1.0	0.14	ug/L			12/16/18 17:21	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			12/16/18 17:21	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			12/16/18 17:21	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			12/16/18 17:21	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			12/16/18 17:21	1
Dichlorodifluoromethane	0.12	U *	1.0	0.12	ug/L			12/16/18 17:21	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			12/16/18 17:21	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			12/16/18 17:21	1
Methyl acetate	0.31	U	5.0	0.31	ug/L			12/16/18 17:21	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			12/16/18 17:21	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			12/16/18 17:21	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			12/16/18 17:21	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			12/16/18 17:21	1
o-Xylene	0.36	U	1.0	0.36	ug/L			12/16/18 17:21	1
Styrene	0.42	U	1.0	0.42	ug/L			12/16/18 17:21	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			12/16/18 17:21	1
Toluene	0.38	U	1.0	0.38	ug/L			12/16/18 17:21	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			12/16/18 17:21	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			12/16/18 17:21	1

Client Sample ID: 9999-23-MW02-GW01-12052018
Date Collected: 12/05/18 09:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.31	U	1.0	0.31	ug/L			12/16/18 17:21	1
Trichlorofluoromethane	0.14	U	1.0	0.14	ug/L			12/16/18 17:21	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			12/16/18 17:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/16/18 17:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*12/16/18 17:21*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*12/16/18 17:21*	*1*
4-Bromofluorobenzene	*94*		*70 - 130*		*12/16/18 17:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*12/16/18 17:21*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	U *	0.050	0.014	ug/L		12/10/18 09:58	12/15/18 09:20	1
Acenaphthylene	0.015	U *	0.050	0.015	ug/L		12/10/18 09:58	12/15/18 09:20	1
Anthracene	0.0092	U	0.050	0.0092	ug/L		12/10/18 09:58	12/15/18 09:20	1
Benzo[a]anthracene	0.016	U	0.050	0.016	ug/L		12/10/18 09:58	12/15/18 09:20	1
Benzo[a]pyrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 09:20	1
Benzo[b]fluoranthene	0.024	U	0.050	0.024	ug/L		12/10/18 09:58	12/15/18 09:20	1
Benzo[g,h,i]perylene	0.035	U *	0.050	0.035	ug/L		12/10/18 09:58	12/15/18 09:20	1
Benzo[k]fluoranthene	0.028	U	0.050	0.028	ug/L		12/10/18 09:58	12/15/18 09:20	1
Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026	ug/L		12/10/18 09:58	12/15/18 09:20	1
Chrysene	0.030	U	0.050	0.030	ug/L		12/10/18 09:58	12/15/18 09:20	1
Dibenz(a,h)anthracene	0.011	U *	0.050	0.011	ug/L		12/10/18 09:58	12/15/18 09:20	1
Fluoranthene	0.039	U	0.050	0.039	ug/L		12/10/18 09:58	12/15/18 09:20	1
Fluorene	0.012	U *	0.050	0.012	ug/L		12/10/18 09:58	12/15/18 09:20	1
Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036	ug/L		12/10/18 09:58	12/15/18 09:20	1
Naphthalene	0.12	U	0.20	0.12	ug/L		12/10/18 09:58	12/15/18 09:20	1
Phenanthrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 09:20	1
Pyrene	0.031	U	0.050	0.031	ug/L		12/10/18 09:58	12/15/18 09:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 13:16	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		12/10/18 09:58	12/11/18 13:16	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		12/10/18 09:58	12/11/18 13:16	1
2,6-Dinitrotoluene	0.39	U	2.0	0.39	ug/L		12/10/18 09:58	12/11/18 13:16	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 13:16	1
2-Methylnaphthalene	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 13:16	1
2-Nitroaniline	0.47	U *	10	0.47	ug/L		12/10/18 09:58	12/11/18 13:16	1
3,3'-Dichlorobenzidine	1.4	U *	10	1.4	ug/L		12/10/18 09:58	12/11/18 13:16	1
3-Nitroaniline	0.96	U *	10	0.96	ug/L		12/10/18 09:58	12/11/18 13:16	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		12/10/18 09:58	12/11/18 13:16	1
4-Chloroaniline	1.9	U *	10	1.9	ug/L		12/10/18 09:58	12/11/18 13:16	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		12/10/18 09:58	12/11/18 13:16	1
4-Nitroaniline	0.54	U *	10	0.54	ug/L		12/10/18 09:58	12/11/18 13:16	1
Acetophenone	0.79	U	10	0.79	ug/L		12/10/18 09:58	12/11/18 13:16	1
Atrazine	1.3	U *	2.0	1.3	ug/L		12/10/18 09:58	12/11/18 13:16	1

Client Sample ID: 9999-23-MW02-GW01-12052018

Date Collected: 12/05/18 09:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	0.59	U *	10	0.59	ug/L		12/10/18 09:58	12/11/18 13:16	1
Bis(2-chloroethoxy)methane	0.24	U	10	0.24	ug/L		12/10/18 09:58	12/11/18 13:16	1
Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7	ug/L		12/10/18 09:58	12/11/18 13:16	1
Butyl benzyl phthalate	0.85	U *	10	0.85	ug/L		12/10/18 09:58	12/11/18 13:16	1
Caprolactam	0.68	U *	10	0.68	ug/L		12/10/18 09:58	12/11/18 13:16	1
Carbazole	0.68	U	10	0.68	ug/L		12/10/18 09:58	12/11/18 13:16	1
Dibenzofuran	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 13:16	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		12/10/18 09:58	12/11/18 13:16	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		12/10/18 09:58	12/11/18 13:16	1
Di-n-butyl phthalate	0.84	U *	10	0.84	ug/L		12/10/18 09:58	12/11/18 13:16	1
Di-n-octyl phthalate	4.8	U *	10	4.8	ug/L		12/10/18 09:58	12/11/18 13:16	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		12/10/18 09:58	12/11/18 13:16	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		12/10/18 09:58	12/11/18 13:16	1
Hexachlorocyclopentadiene	1.7	U	10	1.7	ug/L		12/10/18 09:58	12/11/18 13:16	1
Hexachloroethane	1.2	U	2.0	1.2	ug/L		12/10/18 09:58	12/11/18 13:16	1
Isophorone	0.80	U	10	0.80	ug/L		12/10/18 09:58	12/11/18 13:16	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		12/10/18 09:58	12/11/18 13:16	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		12/10/18 09:58	12/11/18 13:16	1
N-Nitrosodiphenylamine	0.89	U *	10	0.89	ug/L		12/10/18 09:58	12/11/18 13:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*12/10/18 09:58*	*12/11/18 13:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:16*	*1*
Nitrobenzene-d5	*77*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:16*	*1*
Terphenyl-d14	*52*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:16*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**18600**		40.0	18.8	ug/L		12/13/18 09:45	12/13/18 20:04	2
Antimony	**0.85**	**J**	2.0	0.40	ug/L		12/13/18 09:45	12/13/18 20:04	2
Arsenic	**18.7**		2.0	0.73	ug/L		12/13/18 09:45	12/13/18 20:04	2
Barium	**93.5**		4.0	1.2	ug/L		12/13/18 09:45	12/13/18 20:04	2
Beryllium	**1.3**		0.80	0.25	ug/L		12/13/18 09:45	12/13/18 20:04	2
Cadmium	0.81	U	2.0	0.81	ug/L		12/13/18 09:45	12/13/18 20:04	2
Calcium	**10800**		200	98.8	ug/L		12/13/18 09:45	12/13/18 20:04	2
Chromium	**449**		4.0	2.3	ug/L		12/13/18 09:45	12/13/18 20:04	2
Cobalt	**6.9**		4.0	1.6	ug/L		12/13/18 09:45	12/13/18 20:04	2
Copper	**28.4**		4.0	2.0	ug/L		12/13/18 09:45	12/13/18 20:04	2
Iron	**39700**		120	51.1	ug/L		12/13/18 09:45	12/13/18 20:04	2
Lead	**9.5**		1.2	0.55	ug/L		12/13/18 09:45	12/13/18 20:04	2
Magnesium	**2640**		200	73.7	ug/L		12/13/18 09:45	12/13/18 20:04	2
Manganese	**119**		8.0	2.9	ug/L		12/13/18 09:45	12/13/18 20:04	2
Nickel	**167**		4.0	2.4	ug/L		12/13/18 09:45	12/13/18 20:04	2
Potassium	**5240**		200	86.7	ug/L		12/13/18 09:45	12/13/18 20:04	2
Selenium	5.4	U	10.0	5.4	ug/L		12/13/18 09:45	12/13/18 20:04	2
Silver	0.59	U	2.0	0.59	ug/L		12/13/18 09:45	12/13/18 20:04	2
Sodium	**131000**		200	128	ug/L		12/13/18 09:45	12/13/18 20:04	2
Thallium	**0.20**	**J**	0.80	0.16	ug/L		12/13/18 09:45	12/13/18 20:04	2

Client Sample ID: 9999-23-MW02-GW01-12052018
Date Collected: 12/05/18 09:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-2
Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	61.6		4.0	1.1	ug/L		12/13/18 09:45	12/13/18 20:04	2
Zinc	27.4		16.0	11.1	ug/L		12/13/18 09:45	12/13/18 20:04	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.20	0.12	ug/L		12/14/18 13:09	12/14/18 15:15	1

Client Sample ID: 9999-23-MW03-GW01-12052018

Date Collected: 12/05/18 10:30
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			12/16/18 17:46	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/16/18 17:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/16/18 17:46	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 17:46	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			12/16/18 17:46	1
1,1-Dichloroethene	0.12	U	1.0	0.12	ug/L			12/16/18 17:46	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			12/16/18 17:46	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			12/16/18 17:46	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			12/16/18 17:46	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			12/16/18 17:46	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/16/18 17:46	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 17:46	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			12/16/18 17:46	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			12/16/18 17:46	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/16/18 17:46	1
1,4-Dioxane	28	U	50	28	ug/L			12/16/18 17:46	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			12/16/18 17:46	1
2-Hexanone	2.9	U	5.0	2.9	ug/L			12/16/18 17:46	1
4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7	ug/L			12/16/18 17:46	1
Acetone	**5.4**		5.0	5.0	ug/L			12/16/18 17:46	1
Benzene	0.43	U	1.0	0.43	ug/L			12/16/18 17:46	1
Bromochloromethane	0.41	U	1.0	0.41	ug/L			12/16/18 17:46	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			12/16/18 17:46	1
Bromoform	0.54	U	1.0	0.54	ug/L			12/16/18 17:46	1
Bromomethane	1.0	U	1.0	1.0	ug/L			12/16/18 17:46	1
Carbon disulfide	0.16	U	1.0	0.16	ug/L			12/16/18 17:46	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			12/16/18 17:46	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			12/16/18 17:46	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/16/18 17:46	1
Chloroform	0.33	U	1.0	0.33	ug/L			12/16/18 17:46	1
Chloromethane	0.14	U	1.0	0.14	ug/L			12/16/18 17:46	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			12/16/18 17:46	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			12/16/18 17:46	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			12/16/18 17:46	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			12/16/18 17:46	1
Dichlorodifluoromethane	0.12	U *	1.0	0.12	ug/L			12/16/18 17:46	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			12/16/18 17:46	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			12/16/18 17:46	1
Methyl acetate	0.31	U	5.0	0.31	ug/L			12/16/18 17:46	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			12/16/18 17:46	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			12/16/18 17:46	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			12/16/18 17:46	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			12/16/18 17:46	1
o-Xylene	0.36	U	1.0	0.36	ug/L			12/16/18 17:46	1
Styrene	0.42	U	1.0	0.42	ug/L			12/16/18 17:46	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			12/16/18 17:46	1
Toluene	0.38	U	1.0	0.38	ug/L			12/16/18 17:46	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			12/16/18 17:46	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			12/16/18 17:46	1

Client Sample ID: 9999-23-MW03-GW01-12052018

Date Collected: 12/05/18 10:30
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.31	U	1.0	0.31	ug/L			12/16/18 17:46	1
Trichlorofluoromethane	0.14	U	1.0	0.14	ug/L			12/16/18 17:46	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			12/16/18 17:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/16/18 17:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*12/16/18 17:46*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/16/18 17:46*	*1*
4-Bromofluorobenzene	*109*		*70 - 130*		*12/16/18 17:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*12/16/18 17:46*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	U *	0.050	0.014	ug/L		12/10/18 09:58	12/15/18 09:41	1
Acenaphthylene	0.015	U *	0.050	0.015	ug/L		12/10/18 09:58	12/15/18 09:41	1
Anthracene	0.0092	U	0.050	0.0092	ug/L		12/10/18 09:58	12/15/18 09:41	1
Benzo[a]anthracene	0.016	U	0.050	0.016	ug/L		12/10/18 09:58	12/15/18 09:41	1
Benzo[a]pyrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 09:41	1
Benzo[b]fluoranthene	0.024	U	0.050	0.024	ug/L		12/10/18 09:58	12/15/18 09:41	1
Benzo[g,h,i]perylene	0.035	U *	0.050	0.035	ug/L		12/10/18 09:58	12/15/18 09:41	1
Benzo[k]fluoranthene	0.028	U	0.050	0.028	ug/L		12/10/18 09:58	12/15/18 09:41	1
Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026	ug/L		12/10/18 09:58	12/15/18 09:41	1
Chrysene	0.030	U	0.050	0.030	ug/L		12/10/18 09:58	12/15/18 09:41	1
Dibenz(a,h)anthracene	0.011	U *	0.050	0.011	ug/L		12/10/18 09:58	12/15/18 09:41	1
Fluoranthene	0.039	U	0.050	0.039	ug/L		12/10/18 09:58	12/15/18 09:41	1
Fluorene	0.012	U *	0.050	0.012	ug/L		12/10/18 09:58	12/15/18 09:41	1
Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036	ug/L		12/10/18 09:58	12/15/18 09:41	1
Naphthalene	0.12	U	0.20	0.12	ug/L		12/10/18 09:58	12/15/18 09:41	1
Phenanthrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 09:41	1
Pyrene	0.031	U	0.050	0.031	ug/L		12/10/18 09:58	12/15/18 09:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 13:37	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		12/10/18 09:58	12/11/18 13:37	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		12/10/18 09:58	12/11/18 13:37	1
2,6-Dinitrotoluene	0.39	U	2.0	0.39	ug/L		12/10/18 09:58	12/11/18 13:37	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 13:37	1
2-Methylnaphthalene	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 13:37	1
2-Nitroaniline	0.47	U *	10	0.47	ug/L		12/10/18 09:58	12/11/18 13:37	1
3,3'-Dichlorobenzidine	1.4	U *	10	1.4	ug/L		12/10/18 09:58	12/11/18 13:37	1
3-Nitroaniline	0.96	U *	10	0.96	ug/L		12/10/18 09:58	12/11/18 13:37	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		12/10/18 09:58	12/11/18 13:37	1
4-Chloroaniline	1.9	U *	10	1.9	ug/L		12/10/18 09:58	12/11/18 13:37	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		12/10/18 09:58	12/11/18 13:37	1
4-Nitroaniline	0.54	U *	10	0.54	ug/L		12/10/18 09:58	12/11/18 13:37	1
Acetophenone	0.79	U	10	0.79	ug/L		12/10/18 09:58	12/11/18 13:37	1
Atrazine	1.3	U *	2.0	1.3	ug/L		12/10/18 09:58	12/11/18 13:37	1

Client Sample ID: 9999-23-MW03-GW01-12052018

Date Collected: 12/05/18 10:30
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	0.59	U *	10	0.59	ug/L		12/10/18 09:58	12/11/18 13:37	1
Bis(2-chloroethoxy)methane	0.24	U	10	0.24	ug/L		12/10/18 09:58	12/11/18 13:37	1
Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7	ug/L		12/10/18 09:58	12/11/18 13:37	1
Butyl benzyl phthalate	0.85	U *	10	0.85	ug/L		12/10/18 09:58	12/11/18 13:37	1
Caprolactam	0.68	U *	10	0.68	ug/L		12/10/18 09:58	12/11/18 13:37	1
Carbazole	0.68	U	10	0.68	ug/L		12/10/18 09:58	12/11/18 13:37	1
Dibenzofuran	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 13:37	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		12/10/18 09:58	12/11/18 13:37	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		12/10/18 09:58	12/11/18 13:37	1
Di-n-butyl phthalate	0.84	U *	10	0.84	ug/L		12/10/18 09:58	12/11/18 13:37	1
Di-n-octyl phthalate	4.8	U *	10	4.8	ug/L		12/10/18 09:58	12/11/18 13:37	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		12/10/18 09:58	12/11/18 13:37	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		12/10/18 09:58	12/11/18 13:37	1
Hexachlorocyclopentadiene	1.7	U	10	1.7	ug/L		12/10/18 09:58	12/11/18 13:37	1
Hexachloroethane	1.2	U	2.0	1.2	ug/L		12/10/18 09:58	12/11/18 13:37	1
Isophorone	0.80	U	10	0.80	ug/L		12/10/18 09:58	12/11/18 13:37	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		12/10/18 09:58	12/11/18 13:37	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		12/10/18 09:58	12/11/18 13:37	1
N-Nitrosodiphenylamine	0.89	U *	10	0.89	ug/L		12/10/18 09:58	12/11/18 13:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*12/10/18 09:58*	*12/11/18 13:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:37*	*1*
Nitrobenzene-d5	*90*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:37*	*1*
Terphenyl-d14	*67*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:37*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**31600**		40.0	18.8	ug/L		12/13/18 09:45	12/13/18 20:09	2
Antimony	**1.3**	**J**	2.0	0.40	ug/L		12/13/18 09:45	12/13/18 20:09	2
Arsenic	**29.5**		2.0	0.73	ug/L		12/13/18 09:45	12/13/18 20:09	2
Barium	**192**		4.0	1.2	ug/L		12/13/18 09:45	12/13/18 20:09	2
Beryllium	**1.9**		0.80	0.25	ug/L		12/13/18 09:45	12/13/18 20:09	2
Cadmium	0.81	U	2.0	0.81	ug/L		12/13/18 09:45	12/13/18 20:09	2
Calcium	**50200**		200	98.8	ug/L		12/13/18 09:45	12/13/18 20:09	2
Chromium	**322**		4.0	2.3	ug/L		12/13/18 09:45	12/13/18 20:09	2
Cobalt	**5.2**		4.0	1.6	ug/L		12/13/18 09:45	12/13/18 20:09	2
Copper	**34.6**		4.0	2.0	ug/L		12/13/18 09:45	12/13/18 20:09	2
Iron	**63200**		120	51.1	ug/L		12/13/18 09:45	12/13/18 20:09	2
Lead	**22.3**		1.2	0.55	ug/L		12/13/18 09:45	12/13/18 20:09	2
Magnesium	**13700**		200	73.7	ug/L		12/13/18 09:45	12/13/18 20:09	2
Manganese	**111**		8.0	2.9	ug/L		12/13/18 09:45	12/13/18 20:09	2
Nickel	**113**		4.0	2.4	ug/L		12/13/18 09:45	12/13/18 20:09	2
Potassium	**8880**		200	86.7	ug/L		12/13/18 09:45	12/13/18 20:09	2
Selenium	**7.9**	**J**	10.0	5.4	ug/L		12/13/18 09:45	12/13/18 20:09	2
Silver	0.59	U	2.0	0.59	ug/L		12/13/18 09:45	12/13/18 20:09	2
Sodium	**23800**		200	128	ug/L		12/13/18 09:45	12/13/18 20:09	2
Thallium	**0.34**	**J**	0.80	0.16	ug/L		12/13/18 09:45	12/13/18 20:09	2

Client Sample ID: 9999-23-MW03-GW01-12052018

Date Collected: 12/05/18 10:30
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-3

Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**112**		4.0	1.1	ug/L		12/13/18 09:45	12/13/18 20:09	2
Zinc	**31.4**		16.0	11.1	ug/L		12/13/18 09:45	12/13/18 20:09	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	U	0.20	0.12	ug/L		12/14/18 13:09	12/14/18 15:20	1

Client Sample ID: 9999-23-FB-BK01-12052018

Date Collected: 12/05/18 15:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			12/16/18 15:41	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/16/18 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/16/18 15:41	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 15:41	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			12/16/18 15:41	1
1,1-Dichloroethene	0.12	U	1.0	0.12	ug/L			12/16/18 15:41	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			12/16/18 15:41	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			12/16/18 15:41	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			12/16/18 15:41	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			12/16/18 15:41	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/16/18 15:41	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 15:41	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			12/16/18 15:41	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			12/16/18 15:41	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/16/18 15:41	1
1,4-Dioxane	28	U	50	28	ug/L			12/16/18 15:41	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			12/16/18 15:41	1
2-Hexanone	2.9	U	5.0	2.9	ug/L			12/16/18 15:41	1
4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7	ug/L			12/16/18 15:41	1
Acetone	5.0	U	5.0	5.0	ug/L			12/16/18 15:41	1
Benzene	0.43	U	1.0	0.43	ug/L			12/16/18 15:41	1
Bromochloromethane	0.41	U	1.0	0.41	ug/L			12/16/18 15:41	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			12/16/18 15:41	1
Bromoform	0.54	U	1.0	0.54	ug/L			12/16/18 15:41	1
Bromomethane	1.0	U	1.0	1.0	ug/L			12/16/18 15:41	1
Carbon disulfide	0.16	U	1.0	0.16	ug/L			12/16/18 15:41	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			12/16/18 15:41	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			12/16/18 15:41	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/16/18 15:41	1
Chloroform	0.33	U	1.0	0.33	ug/L			12/16/18 15:41	1
Chloromethane	0.14	U	1.0	0.14	ug/L			12/16/18 15:41	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			12/16/18 15:41	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			12/16/18 15:41	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			12/16/18 15:41	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			12/16/18 15:41	1
Dichlorodifluoromethane	0.12	U *	1.0	0.12	ug/L			12/16/18 15:41	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			12/16/18 15:41	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			12/16/18 15:41	1
Methyl acetate	0.31	U	5.0	0.31	ug/L			12/16/18 15:41	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			12/16/18 15:41	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			12/16/18 15:41	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			12/16/18 15:41	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			12/16/18 15:41	1
o-Xylene	0.36	U	1.0	0.36	ug/L			12/16/18 15:41	1
Styrene	0.42	U	1.0	0.42	ug/L			12/16/18 15:41	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			12/16/18 15:41	1
Toluene	0.38	U	1.0	0.38	ug/L			12/16/18 15:41	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			12/16/18 15:41	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			12/16/18 15:41	1

Client Sample ID: 9999-23-FB-BK01-12052018

Date Collected: 12/05/18 15:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.31	U	1.0	0.31	ug/L			12/16/18 15:41	1
Trichlorofluoromethane	0.14	U	1.0	0.14	ug/L			12/16/18 15:41	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			12/16/18 15:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/16/18 15:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*12/16/18 15:41*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*12/16/18 15:41*	*1*
4-Bromofluorobenzene	*108*		*70 - 130*		*12/16/18 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*12/16/18 15:41*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	U *	0.050	0.014	ug/L		12/10/18 09:58	12/15/18 10:02	1
Acenaphthylene	0.015	U *	0.050	0.015	ug/L		12/10/18 09:58	12/15/18 10:02	1
Anthracene	0.0092	U	0.050	0.0092	ug/L		12/10/18 09:58	12/15/18 10:02	1
Benzo[a]anthracene	0.016	U	0.050	0.016	ug/L		12/10/18 09:58	12/15/18 10:02	1
Benzo[a]pyrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 10:02	1
Benzo[b]fluoranthene	0.024	U	0.050	0.024	ug/L		12/10/18 09:58	12/15/18 10:02	1
Benzo[g,h,i]perylene	0.035	U *	0.050	0.035	ug/L		12/10/18 09:58	12/15/18 10:02	1
Benzo[k]fluoranthene	0.028	U	0.050	0.028	ug/L		12/10/18 09:58	12/15/18 10:02	1
Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026	ug/L		12/10/18 09:58	12/15/18 10:02	1
Chrysene	0.030	U	0.050	0.030	ug/L		12/10/18 09:58	12/15/18 10:02	1
Dibenz(a,h)anthracene	0.011	U *	0.050	0.011	ug/L		12/10/18 09:58	12/15/18 10:02	1
Fluoranthene	0.039	U	0.050	0.039	ug/L		12/10/18 09:58	12/15/18 10:02	1
Fluorene	0.012	U *	0.050	0.012	ug/L		12/10/18 09:58	12/15/18 10:02	1
Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036	ug/L		12/10/18 09:58	12/15/18 10:02	1
Naphthalene	0.12	U	0.20	0.12	ug/L		12/10/18 09:58	12/15/18 10:02	1
Phenanthrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/15/18 10:02	1
Pyrene	0.031	U	0.050	0.031	ug/L		12/10/18 09:58	12/15/18 10:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 13:58	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		12/10/18 09:58	12/11/18 13:58	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		12/10/18 09:58	12/11/18 13:58	1
2,6-Dinitrotoluene	0.39	U	2.0	0.39	ug/L		12/10/18 09:58	12/11/18 13:58	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 13:58	1
2-Methylnaphthalene	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 13:58	1
2-Nitroaniline	0.47	U *	10	0.47	ug/L		12/10/18 09:58	12/11/18 13:58	1
3,3'-Dichlorobenzidine	1.4	U *	10	1.4	ug/L		12/10/18 09:58	12/11/18 13:58	1
3-Nitroaniline	0.96	U *	10	0.96	ug/L		12/10/18 09:58	12/11/18 13:58	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		12/10/18 09:58	12/11/18 13:58	1
4-Chloroaniline	1.9	U *	10	1.9	ug/L		12/10/18 09:58	12/11/18 13:58	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		12/10/18 09:58	12/11/18 13:58	1
4-Nitroaniline	0.54	U *	10	0.54	ug/L		12/10/18 09:58	12/11/18 13:58	1
Acetophenone	0.79	U	10	0.79	ug/L		12/10/18 09:58	12/11/18 13:58	1
Atrazine	1.3	U *	2.0	1.3	ug/L		12/10/18 09:58	12/11/18 13:58	1

Client Sample ID: 9999-23-FB-BK01-12052018

Date Collected: 12/05/18 15:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	0.59	U *	10	0.59	ug/L		12/10/18 09:58	12/11/18 13:58	1
Bis(2-chloroethoxy)methane	0.24	U	10	0.24	ug/L		12/10/18 09:58	12/11/18 13:58	1
Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7	ug/L		12/10/18 09:58	12/11/18 13:58	1
Butyl benzyl phthalate	0.85	U *	10	0.85	ug/L		12/10/18 09:58	12/11/18 13:58	1
Caprolactam	0.68	U *	10	0.68	ug/L		12/10/18 09:58	12/11/18 13:58	1
Carbazole	0.68	U	10	0.68	ug/L		12/10/18 09:58	12/11/18 13:58	1
Dibenzofuran	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 13:58	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		12/10/18 09:58	12/11/18 13:58	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		12/10/18 09:58	12/11/18 13:58	1
Di-n-butyl phthalate	0.84	U *	10	0.84	ug/L		12/10/18 09:58	12/11/18 13:58	1
Di-n-octyl phthalate	4.8	U *	10	4.8	ug/L		12/10/18 09:58	12/11/18 13:58	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		12/10/18 09:58	12/11/18 13:58	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		12/10/18 09:58	12/11/18 13:58	1
Hexachlorocyclopentadiene	1.7	U	10	1.7	ug/L		12/10/18 09:58	12/11/18 13:58	1
Hexachloroethane	1.2	U	2.0	1.2	ug/L		12/10/18 09:58	12/11/18 13:58	1
Isophorone	0.80	U	10	0.80	ug/L		12/10/18 09:58	12/11/18 13:58	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		12/10/18 09:58	12/11/18 13:58	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		12/10/18 09:58	12/11/18 13:58	1
N-Nitrosodiphenylamine	0.89	U *	10	0.89	ug/L		12/10/18 09:58	12/11/18 13:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*12/10/18 09:58*	*12/11/18 13:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:58*	*1*
Nitrobenzene-d5	*85*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:58*	*1*
Terphenyl-d14	*74*		*30 - 130*	*12/10/18 09:58*	*12/11/18 13:58*	*1*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18.8	U	40.0	18.8	ug/L		12/13/18 09:45	12/13/18 20:14	2
Antimony	0.40	U	2.0	0.40	ug/L		12/13/18 09:45	12/13/18 20:14	2
Arsenic	0.73	U	2.0	0.73	ug/L		12/13/18 09:45	12/13/18 20:14	2
Barium	1.2	U	4.0	1.2	ug/L		12/13/18 09:45	12/13/18 20:14	2
Beryllium	0.25	U	0.80	0.25	ug/L		12/13/18 09:45	12/13/18 20:14	2
Cadmium	0.81	U	2.0	0.81	ug/L		12/13/18 09:45	12/13/18 20:14	2
Calcium	98.8	U	200	98.8	ug/L		12/13/18 09:45	12/13/18 20:14	2
Chromium	2.3	U	4.0	2.3	ug/L		12/13/18 09:45	12/13/18 20:14	2
Cobalt	1.6	U	4.0	1.6	ug/L		12/13/18 09:45	12/13/18 20:14	2
Copper	2.0	U	4.0	2.0	ug/L		12/13/18 09:45	12/13/18 20:14	2
Iron	51.1	U	120	51.1	ug/L		12/13/18 09:45	12/13/18 20:14	2
Lead	0.55	U	1.2	0.55	ug/L		12/13/18 09:45	12/13/18 20:14	2
Magnesium	73.7	U	200	73.7	ug/L		12/13/18 09:45	12/13/18 20:14	2
Manganese	2.9	U	8.0	2.9	ug/L		12/13/18 09:45	12/13/18 20:14	2
Nickel	2.4	U	4.0	2.4	ug/L		12/13/18 09:45	12/13/18 20:14	2
Potassium	**196**	**J**	200	86.7	ug/L		12/13/18 09:45	12/13/18 20:14	2
Selenium	5.4	U	10.0	5.4	ug/L		12/13/18 09:45	12/13/18 20:14	2
Silver	0.59	U	2.0	0.59	ug/L		12/13/18 09:45	12/13/18 20:14	2
Sodium	128	U	200	128	ug/L		12/13/18 09:45	12/13/18 20:14	2
Thallium	0.16	U	0.80	0.16	ug/L		12/13/18 09:45	12/13/18 20:14	2

Client Sample ID: 9999-23-FB-BK01-12052018
Date Collected: 12/05/18 15:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-4
Matrix: Water

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	1.1	U	4.0	1.1	ug/L		12/13/18 09:45	12/13/18 20:14	2
Zinc	11.1	U	16.0	11.1	ug/L		12/13/18 09:45	12/13/18 20:14	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	U	0.20	0.12	ug/L		12/14/18 13:09	12/14/18 15:22	1

Client Sample ID: 9999-23-TB-BK01-12052018

Date Collected: 12/05/18 00:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			12/16/18 16:07	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/16/18 16:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/16/18 16:07	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 16:07	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			12/16/18 16:07	1
1,1-Dichloroethene	0.12	U	1.0	0.12	ug/L			12/16/18 16:07	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			12/16/18 16:07	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			12/16/18 16:07	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			12/16/18 16:07	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/16/18 16:07	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 16:07	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			12/16/18 16:07	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			12/16/18 16:07	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/16/18 16:07	1
1,4-Dioxane	28	U	50	28	ug/L			12/16/18 16:07	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			12/16/18 16:07	1
2-Hexanone	2.9	U	5.0	2.9	ug/L			12/16/18 16:07	1
4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7	ug/L			12/16/18 16:07	1
Acetone	5.0	U	5.0	5.0	ug/L			12/16/18 16:07	1
Benzene	0.43	U	1.0	0.43	ug/L			12/16/18 16:07	1
Bromoform	0.54	U	1.0	0.54	ug/L			12/16/18 16:07	1
Bromomethane	1.0	U	1.0	1.0	ug/L			12/16/18 16:07	1
Carbon disulfide	0.16	U	1.0	0.16	ug/L			12/16/18 16:07	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			12/16/18 16:07	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			12/16/18 16:07	1
Bromochloromethane	0.41	U	1.0	0.41	ug/L			12/16/18 16:07	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			12/16/18 16:07	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/16/18 16:07	1
Chloroform	0.33	U	1.0	0.33	ug/L			12/16/18 16:07	1
Chloromethane	0.14	U	1.0	0.14	ug/L			12/16/18 16:07	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			12/16/18 16:07	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			12/16/18 16:07	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			12/16/18 16:07	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			12/16/18 16:07	1
Dichlorodifluoromethane	0.12	U *	1.0	0.12	ug/L			12/16/18 16:07	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			12/16/18 16:07	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			12/16/18 16:07	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			12/16/18 16:07	1
Methyl acetate	0.31	U	5.0	0.31	ug/L			12/16/18 16:07	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			12/16/18 16:07	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			12/16/18 16:07	1
Methylene Chloride	**3.1**		1.0	0.32	ug/L			12/16/18 16:07	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			12/16/18 16:07	1
o-Xylene	0.36	U	1.0	0.36	ug/L			12/16/18 16:07	1
Styrene	0.42	U	1.0	0.42	ug/L			12/16/18 16:07	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			12/16/18 16:07	1
Toluene	0.38	U	1.0	0.38	ug/L			12/16/18 16:07	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			12/16/18 16:07	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			12/16/18 16:07	1

Client Sample ID: 9999-23-TB-BK01-12052018
Date Collected: 12/05/18 00:00
Date Received: 12/06/18 13:50

Lab Sample ID: 460-170982-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.31	U	1.0	0.31	ug/L			12/16/18 16:07	1
Trichlorofluoromethane	0.14	U	1.0	0.14	ug/L			12/16/18 16:07	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			12/16/18 16:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/16/18 16:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*12/16/18 16:07*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/16/18 16:07*	*1*
4-Bromofluorobenzene	*100*		*70 - 130*		*12/16/18 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*12/16/18 16:07*	*1*

Surrogate Summary

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	TOL	BFB	DCA
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
460-170982-1	9999-23-MW01-GW01-1205201	105	100	98	104
460-170982-2	9999-23-MW02-GW01-1205201	100	97	94	102
460-170982-3	9999-23-MW03-GW01-1205201	109	111	109	114
460-170982-4	9999-23-FB-BK01-12052018	110	107	108	108
460-170982-5	9999-23-TB-BK01-12052018	99	96	100	98
LCS 460-576213/4	Lab Control Sample	102	99	101	100
LCSD 460-576213/21	Lab Control Sample Dup	101	94	100	100
MB 460-576213/8	Method Blank	98	98	96	100

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
460-170982-1	9999-23-MW01-GW01-1205201	70	79	56
460-170982-2	9999-23-MW02-GW01-1205201	71	77	52
460-170982-3	9999-23-MW03-GW01-1205201	83	90	67
460-170982-4	9999-23-FB-BK01-12052018	81	85	74
LCS 460-574537/2-A	Lab Control Sample	93	106	80
LCSD 460-574537/3-A	Lab Control Sample Dup	103	113	87
MB 460-574537/1-A	Method Blank	85	101	88

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-576213/8
Matrix: Water
Analysis Batch: 576213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			12/16/18 09:25	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			12/16/18 09:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/16/18 09:25	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 09:25	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			12/16/18 09:25	1
1,1-Dichloroethene	0.12	U	1.0	0.12	ug/L			12/16/18 09:25	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			12/16/18 09:25	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			12/16/18 09:25	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			12/16/18 09:25	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			12/16/18 09:25	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			12/16/18 09:25	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			12/16/18 09:25	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			12/16/18 09:25	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/16/18 09:25	1
1,4-Dioxane	28	U	50	28	ug/L			12/16/18 09:25	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			12/16/18 09:25	1
2-Hexanone	2.9	U	5.0	2.9	ug/L			12/16/18 09:25	1
4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7	ug/L			12/16/18 09:25	1
Acetone	5.0	U	5.0	5.0	ug/L			12/16/18 09:25	1
Benzene	0.43	U	1.0	0.43	ug/L			12/16/18 09:25	1
Bromoform	0.54	U	1.0	0.54	ug/L			12/16/18 09:25	1
Bromomethane	1.0	U	1.0	1.0	ug/L			12/16/18 09:25	1
Bromochloromethane	0.41	U	1.0	0.41	ug/L			12/16/18 09:25	1
Carbon disulfide	0.16	U	1.0	0.16	ug/L			12/16/18 09:25	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			12/16/18 09:25	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			12/16/18 09:25	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/16/18 09:25	1
Chloroform	0.33	U	1.0	0.33	ug/L			12/16/18 09:25	1
Chloromethane	0.14	U	1.0	0.14	ug/L			12/16/18 09:25	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			12/16/18 09:25	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			12/16/18 09:25	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			12/16/18 09:25	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			12/16/18 09:25	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			12/16/18 09:25	1
Dichlorodifluoromethane	0.12	U	1.0	0.12	ug/L			12/16/18 09:25	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			12/16/18 09:25	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			12/16/18 09:25	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			12/16/18 09:25	1
Methyl acetate	0.31	U	5.0	0.31	ug/L			12/16/18 09:25	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			12/16/18 09:25	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			12/16/18 09:25	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			12/16/18 09:25	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			12/16/18 09:25	1
o-Xylene	0.36	U	1.0	0.36	ug/L			12/16/18 09:25	1
Styrene	0.42	U	1.0	0.42	ug/L			12/16/18 09:25	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			12/16/18 09:25	1
Toluene	0.38	U	1.0	0.38	ug/L			12/16/18 09:25	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			12/16/18 09:25	1

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

Lab Sample ID: MB 460-576213/8
Matrix: Water
Analysis Batch: 576213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			12/16/18 09:25	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			12/16/18 09:25	1
Trichlorofluoromethane	0.14	U	1.0	0.14	ug/L			12/16/18 09:25	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			12/16/18 09:25	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/16/18 09:25*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/16/18 09:25*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/16/18 09:25*	*1*
4-Bromofluorobenzene	*96*		*70 - 130*		*12/16/18 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*12/16/18 09:25*	*1*

Lab Sample ID: LCS 460-576213/4
Matrix: Water
Analysis Batch: 576213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.7		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.5		ug/L		118	70 - 130
1,1,2-Trichloroethane	20.0	19.9		ug/L		100	70 - 130
1,1-Dichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethene	20.0	20.6		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	20.0	20.0		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	20.0	21.7		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	20.5		ug/L		102	40 - 160
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	70 - 130
1,2-Dichloroethane	20.0	19.5		ug/L		97	70 - 130
1,2-Dichloropropane	20.0	19.9		ug/L		99	70 - 130
1,3-Dichlorobenzene	20.0	20.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 130
1,4-Dioxane	400	393		ug/L		98	40 - 160
2-Butanone (MEK)	100	102		ug/L		102	40 - 160
2-Hexanone	100	109		ug/L		109	40 - 160
4-Methyl-2-pentanone (MIBK)	100	105		ug/L		105	40 - 160
Acetone	100	102		ug/L		102	40 - 160
Benzene	20.0	19.3		ug/L		96	70 - 130
Bromoform	20.0	19.6		ug/L		98	70 - 130
Bromomethane	20.0	23.2		ug/L		116	40 - 160
Bromochloromethane	20.0	19.8		ug/L		99	70 - 130
Carbon disulfide	20.0	18.3		ug/L		91	40 - 160
Carbon tetrachloride	20.0	21.0		ug/L		105	70 - 130
Chlorobenzene	20.0	20.2		ug/L		101	70 - 130
Chloroethane	20.0	21.4		ug/L		107	40 - 160
Chloroform	20.0	20.7		ug/L		103	70 - 130

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

Lab Sample ID: LCS 460-576213/4
Matrix: Water
Analysis Batch: 576213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	21.7		ug/L		109	40 - 160
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	70 - 130
cis-1,3-Dichloropropene	20.0	19.9		ug/L		99	70 - 130
Bromodichloromethane	20.0	19.5		ug/L		97	70 - 130
Cyclohexane	20.0	20.6		ug/L		103	70 - 130
Dibromochloromethane	20.0	20.7		ug/L		103	70 - 130
Dichlorodifluoromethane	20.0	28.5		ug/L		143	40 - 160
1,2-Dibromoethane	20.0	19.9		ug/L		100	70 - 130
Ethylbenzene	20.0	19.6		ug/L		98	70 - 130
Isopropylbenzene	20.0	20.1		ug/L		101	70 - 130
Methyl acetate	40.0	39.1		ug/L		98	70 - 130
Methyl tert-butyl ether	20.0	19.9		ug/L		99	70 - 130
Methylcyclohexane	20.0	21.4		ug/L		107	70 - 130
Methylene Chloride	20.0	19.5		ug/L		98	70 - 130
m-Xylene & p-Xylene	20.0	20.2		ug/L		101	70 - 130
o-Xylene	20.0	19.8		ug/L		99	70 - 130
Styrene	20.0	20.8		ug/L		104	70 - 130
Tetrachloroethene	20.0	20.5		ug/L		102	70 - 130
Toluene	20.0	19.4		ug/L		97	70 - 130
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	70 - 130
Trichloroethene	20.0	20.1		ug/L		101	70 - 130
Trichlorofluoromethane	20.0	24.6		ug/L		123	40 - 160
Vinyl chloride	20.0	22.6		ug/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 460-576213/21
Matrix: Water
Analysis Batch: 576213

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 130	4	20
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		90	70 - 130	13	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.5		ug/L		107	70 - 130	9	20
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	70 - 130	10	20
1,1-Dichloroethane	20.0	18.6		ug/L		93	70 - 130	8	20
1,1-Dichloroethene	20.0	19.6		ug/L		98	70 - 130	5	20
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	70 - 130	1	20
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		94	70 - 130	14	20
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	40 - 160	7	20
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	70 - 130	9	20
1,2-Dichloroethane	20.0	18.3		ug/L		92	70 - 130	6	20

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

Lab Sample ID: LCSD 460-576213/21
Matrix: Water
Analysis Batch: 576213

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			20.0	18.5		ug/L		92	70 - 130	7	20
1,3-Dichlorobenzene			20.0	18.2		ug/L		91	70 - 130	13	20
1,4-Dichlorobenzene			20.0	18.6		ug/L		93	70 - 130	7	20
1,4-Dioxane			400	425		ug/L		106	40 - 160	8	20
2-Butanone (MEK)			100	94.5		ug/L		95	40 - 160	8	20
2-Hexanone			100	96.6		ug/L		97	40 - 160	12	20
4-Methyl-2-pentanone (MIBK)			100	94.9		ug/L		95	40 - 160	10	20
Acetone			100	86.3		ug/L		86	40 - 160	17	20
Benzene			20.0	17.1		ug/L		86	70 - 130	12	20
Bromoform			20.0	18.6		ug/L		93	70 - 130	5	20
Bromomethane			20.0	21.4		ug/L		107	40 - 160	8	20
Bromochloromethane			20.0	18.0		ug/L		90	70 - 130	10	20
Carbon disulfide			20.0	19.6		ug/L		98	40 - 160	7	20
Carbon tetrachloride			20.0	20.7		ug/L		103	70 - 130	2	20
Chlorobenzene			20.0	18.1		ug/L		90	70 - 130	11	20
Chloroethane			20.0	20.1		ug/L		100	40 - 160	7	20
Chloroform			20.0	18.7		ug/L		93	70 - 130	10	20
Chloromethane			20.0	18.9		ug/L		95	40 - 160	14	20
cis-1,2-Dichloroethene			20.0	18.5		ug/L		93	70 - 130	9	20
cis-1,3-Dichloropropene			20.0	17.5		ug/L		87	70 - 130	13	20
Bromodichloromethane			20.0	18.9		ug/L		94	70 - 130	3	20
Cyclohexane			20.0	19.3		ug/L		96	70 - 130	6	20
Dibromochloromethane			20.0	18.7		ug/L		93	70 - 130	10	20
Dichlorodifluoromethane			20.0	22.3	*	ug/L		111	40 - 160	24	20
1,2-Dibromoethane			20.0	18.1		ug/L		91	70 - 130	10	20
Ethylbenzene			20.0	17.8		ug/L		89	70 - 130	9	20
Isopropylbenzene			20.0	18.5		ug/L		92	70 - 130	9	20
Methyl acetate			40.0	36.7		ug/L		92	70 - 130	6	20
Methyl tert-butyl ether			20.0	19.1		ug/L		96	70 - 130	4	20
Methylcyclohexane			20.0	19.5		ug/L		97	70 - 130	9	20
Methylene Chloride			20.0	18.9		ug/L		95	70 - 130	3	20
m-Xylene & p-Xylene			20.0	18.3		ug/L		91	70 - 130	10	20
o-Xylene			20.0	18.5		ug/L		93	70 - 130	7	20
Styrene			20.0	19.0		ug/L		95	70 - 130	9	20
Tetrachloroethene			20.0	20.0		ug/L		100	70 - 130	2	20
Toluene			20.0	17.8		ug/L		89	70 - 130	8	20
trans-1,2-Dichloroethene			20.0	19.2		ug/L		96	70 - 130	8	20
trans-1,3-Dichloropropene			20.0	18.1		ug/L		91	70 - 130	13	20
Trichloroethene			20.0	19.4		ug/L		97	70 - 130	4	20
Trichlorofluoromethane			20.0	23.5		ug/L		117	40 - 160	5	20
Vinyl chloride			20.0	19.7		ug/L		98	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-574537/1-A
Matrix: Water
Analysis Batch: 574741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 08:25	1
2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63	ug/L		12/10/18 09:58	12/11/18 08:25	1
2,4-Dinitrotoluene	1.0	U	2.0	1.0	ug/L		12/10/18 09:58	12/11/18 08:25	1
2,6-Dinitrotoluene	0.39	U	2.0	0.39	ug/L		12/10/18 09:58	12/11/18 08:25	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		12/10/18 09:58	12/11/18 08:25	1
2-Methylnaphthalene	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 08:25	1
2-Nitroaniline	0.47	U	10	0.47	ug/L		12/10/18 09:58	12/11/18 08:25	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		12/10/18 09:58	12/11/18 08:25	1
3-Nitroaniline	0.96	U	10	0.96	ug/L		12/10/18 09:58	12/11/18 08:25	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		12/10/18 09:58	12/11/18 08:25	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		12/10/18 09:58	12/11/18 08:25	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		12/10/18 09:58	12/11/18 08:25	1
4-Nitroaniline	0.54	U	10	0.54	ug/L		12/10/18 09:58	12/11/18 08:25	1
Acetophenone	0.79	U	10	0.79	ug/L		12/10/18 09:58	12/11/18 08:25	1
Atrazine	1.3	U	2.0	1.3	ug/L		12/10/18 09:58	12/11/18 08:25	1
Benzaldehyde	0.59	U	10	0.59	ug/L		12/10/18 09:58	12/11/18 08:25	1
Bis(2-chloroethoxy)methane	0.24	U	10	0.24	ug/L		12/10/18 09:58	12/11/18 08:25	1
Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7	ug/L		12/10/18 09:58	12/11/18 08:25	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		12/10/18 09:58	12/11/18 08:25	1
Caprolactam	0.68	U	10	0.68	ug/L		12/10/18 09:58	12/11/18 08:25	1
Carbazole	0.68	U	10	0.68	ug/L		12/10/18 09:58	12/11/18 08:25	1
Dibenzofuran	1.1	U	10	1.1	ug/L		12/10/18 09:58	12/11/18 08:25	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		12/10/18 09:58	12/11/18 08:25	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		12/10/18 09:58	12/11/18 08:25	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		12/10/18 09:58	12/11/18 08:25	1
Di-n-octyl phthalate	4.8	U	10	4.8	ug/L		12/10/18 09:58	12/11/18 08:25	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		12/10/18 09:58	12/11/18 08:25	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		12/10/18 09:58	12/11/18 08:25	1
Hexachlorocyclopentadiene	1.7	U	10	1.7	ug/L		12/10/18 09:58	12/11/18 08:25	1
Hexachloroethane	1.2	U	2.0	1.2	ug/L		12/10/18 09:58	12/11/18 08:25	1
Isophorone	0.80	U	10	0.80	ug/L		12/10/18 09:58	12/11/18 08:25	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		12/10/18 09:58	12/11/18 08:25	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		12/10/18 09:58	12/11/18 08:25	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		12/10/18 09:58	12/11/18 08:25	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*12/10/18 09:58*	*12/11/18 08:25*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*30 - 130*	*12/10/18 09:58*	*12/11/18 08:25*	*1*
Nitrobenzene-d5	*101*		*30 - 130*	*12/10/18 09:58*	*12/11/18 08:25*	*1*
Terphenyl-d14	*88*		*30 - 130*	*12/10/18 09:58*	*12/11/18 08:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-574537/2-A
Matrix: Water
Analysis Batch: 574741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	80.0	57.8		ug/L		72	70 - 130
2,2'-oxybis[1-chloropropane]	80.0	87.2		ug/L		109	70 - 130
2,4-Dinitrotoluene	80.0	92.2		ug/L		115	70 - 130
2,6-Dinitrotoluene	80.0	87.2		ug/L		109	70 - 130
2-Chloronaphthalene	80.0	65.3		ug/L		82	70 - 130
2-Methylnaphthalene	80.0	67.4		ug/L		84	70 - 130
2-Nitroaniline	80.0	101		ug/L		126	20 - 160
3,3'-Dichlorobenzidine	80.0	79.6		ug/L		99	70 - 130
3-Nitroaniline	80.0	77.6		ug/L		97	20 - 160
4-Bromophenyl phenyl ether	80.0	74.3		ug/L		93	70 - 130
4-Chloroaniline	80.0	74.9		ug/L		94	20 - 160
4-Chlorophenyl phenyl ether	80.0	81.4		ug/L		102	70 - 130
4-Nitroaniline	80.0	90.4		ug/L		113	20 - 160
Acetophenone	80.0	93.1		ug/L		116	70 - 130
Bis(2-chloroethoxy)methane	80.0	75.3		ug/L		94	70 - 130
Bis(2-ethylhexyl) phthalate	80.0	97.4		ug/L		122	70 - 130
Butyl benzyl phthalate	80.0	103		ug/L		129	70 - 130
Carbazole	80.0	90.1		ug/L		113	70 - 130
Dibenzofuran	80.0	78.0		ug/L		97	70 - 130
Diethyl phthalate	80.0	97.3		ug/L		122	70 - 130
Dimethyl phthalate	80.0	88.3		ug/L		110	70 - 130
Di-n-butyl phthalate	80.0	103		ug/L		129	70 - 130
Di-n-octyl phthalate	80.0	118	*	ug/L		148	70 - 130
Hexachlorobenzene	80.0	73.6		ug/L		92	70 - 130
Hexachlorobutadiene	80.0	59.9		ug/L		75	70 - 130
Hexachlorocyclopentadiene	80.0	59.4		ug/L		74	20 - 160
Hexachloroethane	80.0	64.7		ug/L		81	20 - 160
Isophorone	80.0	74.2		ug/L		93	70 - 130
Nitrobenzene	80.0	86.0		ug/L		107	70 - 130
N-Nitrosodi-n-propylamine	80.0	92.6		ug/L		116	70 - 130
N-Nitrosodiphenylamine	80.0	80.8		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*93*		*30 - 130*
Nitrobenzene-d5	*106*		*30 - 130*
Terphenyl-d14	*80*		*30 - 130*

Lab Sample ID: LCSD 460-574537/3-A
Matrix: Water
Analysis Batch: 574741

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574537

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	80.0	68.6		ug/L		86	70 - 130	17	20
2,2'-oxybis[1-chloropropane]	80.0	91.7		ug/L		115	70 - 130	5	20
2,4-Dinitrotoluene	80.0	100		ug/L		126	70 - 130	9	20
2,6-Dinitrotoluene	80.0	93.4		ug/L		117	70 - 130	7	20
2-Chloronaphthalene	80.0	74.9		ug/L		94	70 - 130	14	20
2-Methylnaphthalene	80.0	71.2		ug/L		89	70 - 130	6	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-574537/3-A
Matrix: Water
Analysis Batch: 574741

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574537

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitroaniline	80.0	49.8	*	ug/L		62	20 - 160	68	20
3,3'-Dichlorobenzidine	80.0	1.41	J *	ug/L		2	70 - 130	193	20
3-Nitroaniline	80.0	0.96	U *	ug/L		0	20 - 160	200	20
4-Bromophenyl phenyl ether	80.0	80.7		ug/L		101	70 - 130	8	20
4-Chloroaniline	80.0	1.9	U *	ug/L		2	20 - 160	193	20
4-Chlorophenyl phenyl ether	80.0	88.7		ug/L		111	70 - 130	9	20
4-Nitroaniline	80.0	0.54	U *	ug/L		0	20 - 160	200	20
Acetophenone	80.0	93.3		ug/L		117	70 - 130	0	20
Bis(2-chloroethoxy)methane	80.0	75.8		ug/L		95	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	80.0	103		ug/L		129	70 - 130	6	20
Butyl benzyl phthalate	80.0	107	*	ug/L		134	70 - 130	4	20
Carbazole	80.0	91.2		ug/L		114	70 - 130	1	20
Dibenzofuran	80.0	87.1		ug/L		109	70 - 130	11	20
Diethyl phthalate	80.0	103		ug/L		129	70 - 130	6	20
Dimethyl phthalate	80.0	96.2		ug/L		120	70 - 130	9	20
Di-n-butyl phthalate	80.0	107	*	ug/L		134	70 - 130	4	20
Di-n-octyl phthalate	80.0	127	*	ug/L		158	70 - 130	7	20
Hexachlorobenzene	80.0	80.6		ug/L		101	70 - 130	9	20
Hexachlorobutadiene	80.0	59.3		ug/L		74	70 - 130	1	20
Hexachlorocyclopentadiene	80.0	65.0		ug/L		81	20 - 160	9	20
Hexachloroethane	80.0	61.5		ug/L		77	20 - 160	5	20
Isophorone	80.0	79.5		ug/L		99	70 - 130	7	20
Nitrobenzene	80.0	85.5		ug/L		107	70 - 130	1	20
N-Nitrosodi-n-propylamine	80.0	90.4		ug/L		113	70 - 130	2	20
N-Nitrosodiphenylamine	80.0	40.1	*	ug/L		50	70 - 130	67	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*103*		*30 - 130*
Nitrobenzene-d5	*113*		*30 - 130*
Terphenyl-d14	*87*		*30 - 130*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 460-574537/1-A
Matrix: Water
Analysis Batch: 574646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	U	0.050	0.014	ug/L		12/10/18 09:58	12/10/18 20:23	1
Acenaphthylene	0.015	U	0.050	0.015	ug/L		12/10/18 09:58	12/10/18 20:23	1
Anthracene	0.0092	U	0.050	0.0092	ug/L		12/10/18 09:58	12/10/18 20:23	1
Benzo[a]anthracene	0.016	U	0.050	0.016	ug/L		12/10/18 09:58	12/10/18 20:23	1
Benzo[a]pyrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/10/18 20:23	1
Benzo[b]fluoranthene	0.024	U	0.050	0.024	ug/L		12/10/18 09:58	12/10/18 20:23	1
Benzo[g,h,i]perylene	0.035	U	0.050	0.035	ug/L		12/10/18 09:58	12/10/18 20:23	1
Benzo[k]fluoranthene	0.028	U	0.050	0.028	ug/L		12/10/18 09:58	12/10/18 20:23	1
Bis(2-chloroethyl)ether	0.026	U	0.030	0.026	ug/L		12/10/18 09:58	12/10/18 20:23	1
Chrysene	0.030	U	0.050	0.030	ug/L		12/10/18 09:58	12/10/18 20:23	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 460-574537/1-A
Matrix: Water
Analysis Batch: 574646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.011	U	0.050	0.011	ug/L		12/10/18 09:58	12/10/18 20:23	1
Fluoranthene	0.039	U	0.050	0.039	ug/L		12/10/18 09:58	12/10/18 20:23	1
Fluorene	0.012	U	0.050	0.012	ug/L		12/10/18 09:58	12/10/18 20:23	1
Indeno[1,2,3-cd]pyrene	0.036	U	0.050	0.036	ug/L		12/10/18 09:58	12/10/18 20:23	1
Naphthalene	0.12	U	0.20	0.12	ug/L		12/10/18 09:58	12/10/18 20:23	1
Phenanthrene	0.022	U	0.050	0.022	ug/L		12/10/18 09:58	12/10/18 20:23	1
Pyrene	0.031	U	0.050	0.031	ug/L		12/10/18 09:58	12/10/18 20:23	1

Lab Sample ID: LCS 460-574537/6-A
Matrix: Water
Analysis Batch: 574646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.800	0.524	*	ug/L		65	70 - 130
Acenaphthylene	0.800	0.449	*	ug/L		56	70 - 130
Anthracene	0.800	0.759		ug/L		95	70 - 130
Benzo[a]anthracene	0.800	0.847		ug/L		106	70 - 130
Benzo[a]pyrene	0.800	0.818		ug/L		102	70 - 130
Benzo[b]fluoranthene	0.800	0.893		ug/L		112	70 - 130
Benzo[g,h,i]perylene	0.800	1.16	*	ug/L		145	70 - 130
Benzo[k]fluoranthene	0.800	0.809		ug/L		101	70 - 130
Bis(2-chloroethyl)ether	0.800	1.08	*	ug/L		135	70 - 130
Chrysene	0.800	0.884		ug/L		110	70 - 130
Dibenz(a,h)anthracene	0.800	1.16	*	ug/L		145	70 - 130
Fluoranthene	0.800	0.782		ug/L		98	70 - 130
Fluorene	0.800	0.506	*	ug/L		63	70 - 130
Indeno[1,2,3-cd]pyrene	0.800	1.09	*	ug/L		137	70 - 130
Naphthalene	0.800	0.697		ug/L		87	70 - 130
Phenanthrene	0.800	0.587		ug/L		73	70 - 130
Pyrene	0.800	0.773		ug/L		97	70 - 130

Lab Sample ID: LCSD 460-574537/7-A
Matrix: Water
Analysis Batch: 574646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574537

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.800	0.571		ug/L		71	70 - 130	9	20
Acenaphthylene	0.800	0.431	*	ug/L		54	70 - 130	4	20
Anthracene	0.800	0.794		ug/L		99	70 - 130	5	20
Benzo[a]anthracene	0.800	0.875		ug/L		109	70 - 130	3	20
Benzo[a]pyrene	0.800	0.862		ug/L		108	70 - 130	5	20
Benzo[b]fluoranthene	0.800	0.906		ug/L		113	70 - 130	1	20
Benzo[g,h,i]perylene	0.800	1.18	*	ug/L		147	70 - 130	2	20
Benzo[k]fluoranthene	0.800	0.800		ug/L		100	70 - 130	1	20
Bis(2-chloroethyl)ether	0.800	1.01		ug/L		126	70 - 130	7	20
Chrysene	0.800	0.894		ug/L		112	70 - 130	1	20
Dibenz(a,h)anthracene	0.800	1.18	*	ug/L		147	70 - 130	1	20
Fluoranthene	0.800	0.796		ug/L		99	70 - 130	2	20
Fluorene	0.800	0.503	*	ug/L		63	70 - 130	1	20

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 460-574537/7-A
Matrix: Water
Analysis Batch: 574646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574537

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	0.800	1.09	*	ug/L		136	70 - 130	0	20
Naphthalene	0.800	0.668		ug/L		83	70 - 130	4	20
Phenanthrene	0.800	0.581		ug/L		73	70 - 130	1	20
Pyrene	0.800	0.792		ug/L		99	70 - 130	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-575471/1-A ^2
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18.8	U	40.0	18.8	ug/L		12/13/18 09:31	12/13/18 15:47	2
Antimony	0.40	U	2.0	0.40	ug/L		12/13/18 09:31	12/13/18 15:47	2
Arsenic	0.73	U	2.0	0.73	ug/L		12/13/18 09:31	12/13/18 15:47	2
Barium	1.2	U	4.0	1.2	ug/L		12/13/18 09:31	12/13/18 15:47	2
Beryllium	0.25	U	0.80	0.25	ug/L		12/13/18 09:31	12/13/18 15:47	2
Cadmium	0.81	U	2.0	0.81	ug/L		12/13/18 09:31	12/13/18 15:47	2
Calcium	98.8	U	200	98.8	ug/L		12/13/18 09:31	12/13/18 15:47	2
Chromium	2.3	U	4.0	2.3	ug/L		12/13/18 09:31	12/13/18 15:47	2
Cobalt	1.6	U	4.0	1.6	ug/L		12/13/18 09:31	12/13/18 15:47	2
Copper	2.0	U	4.0	2.0	ug/L		12/13/18 09:31	12/13/18 15:47	2
Iron	51.1	U	120	51.1	ug/L		12/13/18 09:31	12/13/18 15:47	2
Lead	0.55	U	1.2	0.55	ug/L		12/13/18 09:31	12/13/18 15:47	2
Magnesium	73.7	U	200	73.7	ug/L		12/13/18 09:31	12/13/18 15:47	2
Manganese	2.9	U	8.0	2.9	ug/L		12/13/18 09:31	12/13/18 15:47	2
Nickel	2.4	U	4.0	2.4	ug/L		12/13/18 09:31	12/13/18 15:47	2
Potassium	86.7	U	200	86.7	ug/L		12/13/18 09:31	12/13/18 15:47	2
Selenium	5.4	U	10.0	5.4	ug/L		12/13/18 09:31	12/13/18 15:47	2
Silver	0.59	U	2.0	0.59	ug/L		12/13/18 09:31	12/13/18 15:47	2
Sodium	128	U	200	128	ug/L		12/13/18 09:31	12/13/18 15:47	2
Thallium	0.16	U	0.80	0.16	ug/L		12/13/18 09:31	12/13/18 15:47	2
Vanadium	1.1	U	4.0	1.1	ug/L		12/13/18 09:31	12/13/18 15:47	2
Zinc	11.1	U	16.0	11.1	ug/L		12/13/18 09:31	12/13/18 15:47	2

Lab Sample ID: LCS 460-575471/2-A ^2
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2500	2477		ug/L		99	80 - 120
Antimony	25.0	24.18		ug/L		97	80 - 120
Arsenic	50.0	49.39		ug/L		99	80 - 120
Barium	50.0	48.90		ug/L		98	80 - 120
Beryllium	25.0	25.79		ug/L		103	80 - 120
Cadmium	25.0	23.99		ug/L		96	80 - 120
Calcium	2500	2517		ug/L		101	80 - 120
Chromium	50.0	51.01		ug/L		102	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-575471/2-A ^2
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	25.0	25.53		ug/L		102	80 - 120
Copper	50.0	51.39		ug/L		103	80 - 120
Iron	2500	2543		ug/L		102	80 - 120
Lead	25.0	25.05		ug/L		100	80 - 120
Magnesium	2500	2507		ug/L		100	80 - 120
Manganese	250	257.3		ug/L		103	80 - 120
Nickel	50.0	50.19		ug/L		100	80 - 120
Potassium	2500	2582		ug/L		103	80 - 120
Selenium	50.0	47.97		ug/L		96	80 - 120
Silver	25.0	24.84		ug/L		99	80 - 120
Sodium	2500	2555		ug/L		102	80 - 120
Thallium	20.0	19.63		ug/L		98	80 - 120
Vanadium	50.0	49.68		ug/L		99	80 - 120
Zinc	250	243.3		ug/L		97	80 - 120

Lab Sample ID: 460-170953-F-11-D MS ^2
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 575471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	715		2500	3367		ug/L		106	75 - 125
Antimony	0.40	U	25.0	27.35		ug/L		109	75 - 125
Arsenic	0.73	U	50.0	56.09		ug/L		112	75 - 125
Barium	237		50.0	295.4	4	ug/L		116	75 - 125
Beryllium	0.37	J	25.0	29.16		ug/L		115	75 - 125
Cadmium	0.81	U	25.0	27.29		ug/L		109	75 - 125
Calcium	13600		2500	16160	4	ug/L		103	75 - 125
Chromium	3.0	J	50.0	58.78		ug/L		111	75 - 125
Cobalt	1.6	U	25.0	29.22		ug/L		117	75 - 125
Copper	4.3		50.0	59.00		ug/L		109	75 - 125
Iron	1880		2500	4570		ug/L		107	75 - 125
Lead	3.3		25.0	31.18		ug/L		112	75 - 125
Magnesium	6650		2500	9370		ug/L		109	75 - 125
Manganese	191		250	467.5		ug/L		111	75 - 125
Nickel	2.6	J	50.0	58.47		ug/L		112	75 - 125
Potassium	5040		2500	7907		ug/L		115	75 - 125
Selenium	5.4	U	50.0	56.26		ug/L		113	75 - 125
Silver	0.59	U	25.0	27.37		ug/L		109	75 - 125
Sodium	10100		2500	12880	4	ug/L		111	75 - 125
Thallium	0.16	U	20.0	22.04		ug/L		110	75 - 125
Vanadium	1.9	J	50.0	56.39		ug/L		109	75 - 125
Zinc	22.3		250	293.5		ug/L		108	75 - 125

Lab Sample ID: 460-170953-B-11-A DU ^2
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 575471

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	715		676.0		ug/L		6	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-170953-B-11-A DU ^2
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 575471

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.40	U	0.40	U	ug/L		NC	20
Arsenic	0.73	U	0.73	U	ug/L		NC	20
Barium	237		237.5		ug/L		0	20
Beryllium	0.37	J	0.370	J	ug/L		0	20
Cadmium	0.81	U	0.81	U	ug/L		NC	20
Calcium	13600		13140		ug/L		3	20
Chromium	3.0	J	2.80	J	ug/L		8	20
Cobalt	1.6	U	1.6	U	ug/L		NC	20
Copper	4.3		6.38	F5	ug/L		38	20
Iron	1880		1846		ug/L		2	20
Lead	3.3		3.26		ug/L		1	20
Magnesium	6650		6587		ug/L		1	20
Manganese	191		190.3		ug/L		0.3	20
Nickel	2.6	J	2.59	J	ug/L		2	20
Potassium	5040		4982		ug/L		1	20
Selenium	5.4	U	5.4	U	ug/L		NC	20
Silver	0.59	U	0.59	U	ug/L		NC	20
Sodium	10100		9953		ug/L		2	20
Thallium	0.16	U	0.16	U	ug/L		NC	20
Vanadium	1.9	J	1.83	J	ug/L		2	20
Zinc	22.3		21.96		ug/L		2	20

Lab Sample ID: LRC 460-575571/13
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Lab Control Sample

Analyte	Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	1887		ug/L		94	90 - 110
Barium	5000	4869		ug/L		97	90 - 110
Beryllium	1000	1007		ug/L		101	90 - 110
Cadmium	2000	1934		ug/L		97	90 - 110
Chromium	4000	3777		ug/L		94	90 - 110
Cobalt	1000	1018		ug/L		102	90 - 110
Copper	1000	1029		ug/L		103	90 - 110
Lead	5000	4757		ug/L		95	90 - 110
Manganese	5000	4807		ug/L		96	90 - 110
Nickel	1000	998.9		ug/L		100	90 - 110
Selenium	1000	985.4		ug/L		99	90 - 110
Thallium	1000	970.0		ug/L		97	90 - 110
Vanadium	2000	1945		ug/L		97	90 - 110
Zinc	1000	990.8		ug/L		99	90 - 110

Lab Sample ID: LRC 460-575571/14
Matrix: Water
Analysis Batch: 575571

Client Sample ID: Lab Control Sample

Analyte	Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	50000	47930		ug/L		96	90 - 110
Calcium	150000	145400		ug/L		97	90 - 110

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LRC 460-575571/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water
Analysis Batch: 575571

Analyte	Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	100000	102900		ug/L		103	90 - 110
Magnesium	150000	144300		ug/L		96	90 - 110
Potassium	200000	187800		ug/L		94	90 - 110
Sodium	200000	189600		ug/L		95	90 - 110

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-575860/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 575905 — **Prep Batch: 575860**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	U	0.20	0.12	ug/L		12/14/18 13:09	12/14/18 14:39	1

Lab Sample ID: LCS 460-575860/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 575905 — **Prep Batch: 575860**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.951		ug/L		95	80 - 120

Lab Sample ID: 460-171159-J-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 575905 — **Prep Batch: 575860**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.12	U	1.00	0.892		ug/L		89	75 - 125

Lab Sample ID: 460-171159-A-2-A DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 575905 — **Prep Batch: 575860**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.12	U	0.12	U	ug/L		NC	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

QC Association Summary

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

GC/MS VOA

Analysis Batch: 576213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	8260C	
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	8260C	
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	8260C	
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	8260C	
460-170982-5	9999-23-TB-BK01-12052018	Total/NA	Water	8260C	
MB 460-576213/8	Method Blank	Total/NA	Water	8260C	
LCS 460-576213/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-576213/21	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 574537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	3510C	
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	3510C	
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	3510C	
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	3510C	
MB 460-574537/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-574537/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 460-574537/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-574537/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 460-574537/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 574646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-574537/1-A	Method Blank	Total/NA	Water	8270D SIM	574537
LCS 460-574537/6-A	Lab Control Sample	Total/NA	Water	8270D SIM	574537
LCSD 460-574537/7-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	574537

Analysis Batch: 574741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	8270D	574537
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	8270D	574537
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	8270D	574537
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	8270D	574537
MB 460-574537/1-A	Method Blank	Total/NA	Water	8270D	574537
LCS 460-574537/2-A	Lab Control Sample	Total/NA	Water	8270D	574537
LCSD 460-574537/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	574537

Analysis Batch: 575972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	8270D SIM	574537
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	8270D SIM	574537
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	8270D SIM	574537
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	8270D SIM	574537

Metals

Prep Batch: 575471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	3010A	
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	3010A	
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	3010A	
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	3010A	
MB 460-575471/1-A ^2	Method Blank	Total/NA	Water	3010A	
LCS 460-575471/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
460-170953-F-11-D MS ^2	Matrix Spike	Total/NA	Water	3010A	
460-170953-B-11-A DU ^2	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 575571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	6020B	575471
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	6020B	575471
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	6020B	575471
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	6020B	575471
MB 460-575471/1-A ^2	Method Blank	Total/NA	Water	6020B	575471
LCS 460-575471/2-A ^2	Lab Control Sample	Total/NA	Water	6020B	575471
LRC 460-575571/13	Lab Control Sample		Water	6020B	
LRC 460-575571/14	Lab Control Sample		Water	6020B	
LRC 460-575571/15	Lab Control Sample		Water	6020B	
460-170953-F-11-D MS ^2	Matrix Spike	Total/NA	Water	6020B	575471
460-170953-B-11-A DU ^2	Duplicate	Total/NA	Water	6020B	575471

Prep Batch: 575860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	7470A	
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	7470A	
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	7470A	
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	7470A	
MB 460-575860/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-575860/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-171159-J-2-A MS	Matrix Spike	Total/NA	Water	7470A	
460-171159-A-2-A DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 575905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-170982-1	9999-23-MW01-GW01-12052018	Total/NA	Water	7470A	575860
460-170982-2	9999-23-MW02-GW01-12052018	Total/NA	Water	7470A	575860
460-170982-3	9999-23-MW03-GW01-12052018	Total/NA	Water	7470A	575860
460-170982-4	9999-23-FB-BK01-12052018	Total/NA	Water	7470A	575860
MB 460-575860/1-A	Method Blank	Total/NA	Water	7470A	575860
LCS 460-575860/2-A	Lab Control Sample	Total/NA	Water	7470A	575860
460-171159-J-2-A MS	Matrix Spike	Total/NA	Water	7470A	575860
460-171159-A-2-A DU	Duplicate	Total/NA	Water	7470A	575860

Lab Chronicle

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 — Lab Sample ID: 460-170982-1

Date Collected: 12/05/18 12:10 — **Matrix: Water**
Date Received: 12/06/18 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576213	12/16/18 16:57	CJM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D		1	574741	12/11/18 12:56	FAM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D SIM		1	575972	12/15/18 08:59	YAH	TAL EDI
Total/NA	Prep	3010A			575471	12/13/18 09:45	QZY	TAL EDI
Total/NA	Analysis	6020B		2	575571	12/13/18 20:01	MDC	TAL EDI
Total/NA	Prep	7470A			575860	12/14/18 13:09	RBS	TAL EDI
Total/NA	Analysis	7470A		1	575905	12/14/18 15:13	RBS	TAL EDI

Client Sample ID: 9999-23-MW02-GW01-12052018 — Lab Sample ID: 460-170982-2

Date Collected: 12/05/18 09:00 — **Matrix: Water**
Date Received: 12/06/18 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576213	12/16/18 17:21	CJM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D		1	574741	12/11/18 13:16	FAM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D SIM		1	575972	12/15/18 09:20	YAH	TAL EDI
Total/NA	Prep	3010A			575471	12/13/18 09:45	QZY	TAL EDI
Total/NA	Analysis	6020B		2	575571	12/13/18 20:04	MDC	TAL EDI
Total/NA	Prep	7470A			575860	12/14/18 13:09	RBS	TAL EDI
Total/NA	Analysis	7470A		1	575905	12/14/18 15:15	RBS	TAL EDI

Client Sample ID: 9999-23-MW03-GW01-12052018 — Lab Sample ID: 460-170982-3

Date Collected: 12/05/18 10:30 — **Matrix: Water**
Date Received: 12/06/18 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576213	12/16/18 17:46	CJM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D		1	574741	12/11/18 13:37	FAM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D SIM		1	575972	12/15/18 09:41	YAH	TAL EDI
Total/NA	Prep	3010A			575471	12/13/18 09:45	QZY	TAL EDI
Total/NA	Analysis	6020B		2	575571	12/13/18 20:09	MDC	TAL EDI
Total/NA	Prep	7470A			575860	12/14/18 13:09	RBS	TAL EDI
Total/NA	Analysis	7470A		1	575905	12/14/18 15:20	RBS	TAL EDI

Lab Chronicle

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018

Lab Sample ID: 460-170982-4

Date Collected: 12/05/18 15:00

Matrix: Water

Date Received: 12/06/18 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576213	12/16/18 15:41	CJM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D		1	574741	12/11/18 13:58	FAM	TAL EDI
Total/NA	Prep	3510C			574537	12/10/18 09:58	DXB	TAL EDI
Total/NA	Analysis	8270D SIM		1	575972	12/15/18 10:02	YAH	TAL EDI
Total/NA	Prep	3010A			575471	12/13/18 09:45	QZY	TAL EDI
Total/NA	Analysis	6020B		2	575571	12/13/18 20:14	MDC	TAL EDI
Total/NA	Prep	7470A			575860	12/14/18 13:09	RBS	TAL EDI
Total/NA	Analysis	7470A		1	575905	12/14/18 15:22	RBS	TAL EDI

Client Sample ID: 9999-23-TB-BK01-12052018

Lab Sample ID: 460-170982-5

Date Collected: 12/05/18 00:00

Matrix: Water

Date Received: 12/06/18 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	576213	12/16/18 16:07	CJM	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Whitestone Associates, Inc.
Project/Site: Wawa 9999-23

TestAmerica Job ID: 460-170982-1
SDG: EJ1815811.001

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New Jersey	NELAP	2	12028	06-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8270D SIM	3510C	Water	Bis(2-chloroethyl)ether
8270D SIM	3510C	Water	Naphthalene

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	06-30-19
Arizona	State Program	9	AZ0473	05-05-19
Arkansas DEQ	State Program	6	88-0737	04-25-19
California	State Program	9	2938	06-30-19 *
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-19
Georgia	State Program	4	NA: NELAP & A2LA	12-31-19
Illinois	NELAP	5	200010	12-09-18 *
Iowa	State Program	7	131	04-01-20
Kansas	NELAP	7	E-10229	10-31-19
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-19
Louisiana	NELAP	6	30613	06-30-19
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-19
Massachusetts	State Program	1	M-TN032	06-30-19
Minnesota	NELAP	5	047-999-345	12-31-19
Mississippi	State Program	4	N/A	06-30-19
Montana (UST)	State Program	8	NA	02-17-19
Nevada	State Program	9	TN00032	07-31-19
New Hampshire	NELAP	1	2963	10-09-19
New Jersey	NELAP	2	TN965	06-30-19
New York	NELAP	2	11342	03-31-19
North Carolina (WW/SW)	State Program	4	387	12-31-19
North Dakota	State Program	8	R-146	06-30-19
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-19
Oregon	NELAP	10	TN200001	04-26-19
Pennsylvania	NELAP	3	68-00585	07-31-19
Rhode Island	State Program	1	LAO00268	12-30-19
South Carolina	State Program	4	84009 (001)	02-28-19
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-19
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-19
Washington	State Program	10	C789	07-19-19
West Virginia DEP	State Program	3	219	02-28-19
Wisconsin	State Program	5	998020430	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Laboratory: TestAmerica Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wyoming (UST)	A2LA	8	453.07	12-31-19

8260C_DKQP

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
9999-23-MW01-GW01-12052018	460-170982-1	105	104	100	98
9999-23-MW02-GW01-12052018	460-170982-2	100	102	97	94
9999-23-MW03-GW01-12052018	460-170982-3	109	114	111	109
9999-23-FB-BK01-12052018	460-170982-4	110	108	107	108
9999-23-TB-BK01-12052018	460-170982-5	99	98	96	100
	MB 460-576213/8	98	100	98	96
	LCS 460-576213/4	102	100	99	101
	LCSD 460-576213/21	101	100	94	100

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: B38640.D

Lab ID: LCS 460-576213/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.7	104	70-130	
1,1,2,2-Tetrachloroethane	20.0	20.3	102	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.5	118	70-130	
1,1,2-Trichloroethane	20.0	19.9	100	70-130	
1,1-Dichloroethane	20.0	20.0	100	70-130	
1,1-Dichloroethene	20.0	20.6	103	70-130	
1,2,3-Trichlorobenzene	20.0	20.0	100	70-130	
1,2,4-Trichlorobenzene	20.0	21.7	109	70-130	
1,2-Dibromo-3-Chloropropane	20.0	20.5	102	40-160	
1,2-Dichlorobenzene	20.0	20.3	101	70-130	
1,2-Dichloroethane	20.0	19.5	97	70-130	
1,2-Dichloropropane	20.0	19.9	99	70-130	
1,3-Dichlorobenzene	20.0	20.7	103	70-130	
1,4-Dichlorobenzene	20.0	20.0	100	70-130	
1,4-Dioxane	400	393	98	40-160	
2-Butanone (MEK)	100	102	102	40-160	
2-Hexanone	100	109	109	40-160	
4-Methyl-2-pentanone (MIBK)	100	105	105	40-160	
Acetone	100	102	102	40-160	
Benzene	20.0	19.3	96	70-130	
Bromoform	20.0	19.6	98	70-130	
Bromomethane	20.0	23.2	116	40-160	
Bromochloromethane	20.0	19.8	99	70-130	
Carbon disulfide	20.0	18.3	91	40-160	
Carbon tetrachloride	20.0	21.0	105	70-130	
Chlorobenzene	20.0	20.2	101	70-130	
Chloroethane	20.0	21.4	107	40-160	
Chloroform	20.0	20.7	103	70-130	
Chloromethane	20.0	21.7	109	40-160	
cis-1,2-Dichloroethene	20.0	20.2	101	70-130	
cis-1,3-Dichloropropene	20.0	19.9	99	70-130	
Bromodichloromethane	20.0	19.5	97	70-130	
Cyclohexane	20.0	20.6	103	70-130	
Dibromochloromethane	20.0	20.7	103	70-130	
Dichlorodifluoromethane	20.0	28.5	143	40-160	
1,2-Dibromoethane	20.0	19.9	100	70-130	
Ethylbenzene	20.0	19.6	98	70-130	
Isopropylbenzene	20.0	20.1	101	70-130	
Methyl acetate	40.0	39.1	98	70-130	
Methyl tert-butyl ether	20.0	19.9	99	70-130	
Methylcyclohexane	20.0	21.4	107	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: B38640.D

Lab ID: LCS 460-576213/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	20.0	19.5	98	70-130	
m-Xylene & p-Xylene	20.0	20.2	101	70-130	
o-Xylene	20.0	19.8	99	70-130	
Styrene	20.0	20.8	104	70-130	
Tetrachloroethene	20.0	20.5	102	70-130	
Toluene	20.0	19.4	97	70-130	
trans-1,2-Dichloroethene	20.0	20.8	104	70-130	
trans-1,3-Dichloropropene	20.0	20.6	103	70-130	
Trichloroethene	20.0	20.1	101	70-130	
Trichlorofluoromethane	20.0	24.6	123	40-160	
Vinyl chloride	20.0	22.6	113	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: B38657.D

Lab ID: LCSD 460-576213/21 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.0	100	4	20	70-130	
1,1,2,2-Tetrachloroethane	20.0	17.9	90	13	20	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.5	107	9	20	70-130	
1,1,2-Trichloroethane	20.0	18.0	90	10	20	70-130	
1,1-Dichloroethane	20.0	18.6	93	8	20	70-130	
1,1-Dichloroethene	20.0	19.6	98	5	20	70-130	
1,2,3-Trichlorobenzene	20.0	19.8	99	1	20	70-130	
1,2,4-Trichlorobenzene	20.0	18.9	94	14	20	70-130	
1,2-Dibromo-3-Chloropropane	20.0	19.0	95	7	20	40-160	
1,2-Dichlorobenzene	20.0	18.6	93	9	20	70-130	
1,2-Dichloroethane	20.0	18.3	92	6	20	70-130	
1,2-Dichloropropane	20.0	18.5	92	7	20	70-130	
1,3-Dichlorobenzene	20.0	18.2	91	13	20	70-130	
1,4-Dichlorobenzene	20.0	18.6	93	7	20	70-130	
1,4-Dioxane	400	425	106	8	20	40-160	
2-Butanone (MEK)	100	94.5	95	8	20	40-160	
2-Hexanone	100	96.6	97	12	20	40-160	
4-Methyl-2-pentanone (MIBK)	100	94.9	95	10	20	40-160	
Acetone	100	86.3	86	17	20	40-160	
Benzene	20.0	17.1	86	12	20	70-130	
Bromoform	20.0	18.6	93	5	20	70-130	
Bromomethane	20.0	21.4	107	8	20	40-160	
Bromochloromethane	20.0	18.0	90	10	20	70-130	
Carbon disulfide	20.0	19.6	98	7	20	40-160	
Carbon tetrachloride	20.0	20.7	103	2	20	70-130	
Chlorobenzene	20.0	18.1	90	11	20	70-130	
Chloroethane	20.0	20.1	100	7	20	40-160	
Chloroform	20.0	18.7	93	10	20	70-130	
Chloromethane	20.0	18.9	95	14	20	40-160	
cis-1,2-Dichloroethene	20.0	18.5	93	9	20	70-130	
cis-1,3-Dichloropropene	20.0	17.5	87	13	20	70-130	
Bromodichloromethane	20.0	18.9	94	3	20	70-130	
Cyclohexane	20.0	19.3	96	6	20	70-130	
Dibromochloromethane	20.0	18.7	93	10	20	70-130	
Dichlorodifluoromethane	20.0	22.3	111	24	20	40-160	*
1,2-Dibromoethane	20.0	18.1	91	10	20	70-130	
Ethylbenzene	20.0	17.8	89	9	20	70-130	
Isopropylbenzene	20.0	18.5	92	9	20	70-130	
Methyl acetate	40.0	36.7	92	6	20	70-130	
Methyl tert-butyl ether	20.0	19.1	96	4	20	70-130	
Methylcyclohexane	20.0	19.5	97	9	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: B38657.D

Lab ID: LCSD 460-576213/21 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methylene Chloride	20.0	18.9	95	3	20	70-130	
m-Xylene & p-Xylene	20.0	18.3	91	10	20	70-130	
o-Xylene	20.0	18.5	93	7	20	70-130	
Styrene	20.0	19.0	95	9	20	70-130	
Tetrachloroethene	20.0	20.0	100	2	20	70-130	
Toluene	20.0	17.8	89	8	20	70-130	
trans-1,2-Dichloroethene	20.0	19.2	96	8	20	70-130	
trans-1,3-Dichloropropene	20.0	18.1	91	13	20	70-130	
Trichloroethene	20.0	19.4	97	4	20	70-130	
Trichlorofluoromethane	20.0	23.5	117	5	20	40-160	
Vinyl chloride	20.0	19.7	98	14	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: B38644.D Lab Sample ID: MB 460-576213/8

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

Instrument ID: CVOAMS2 Date Analyzed: 12/16/2018 09:25

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-576213/4	B38640.D	12/16/2018 07:45
	LCSD 460-576213/21	B38657.D	12/16/2018 14:51
9999-23-FB-BK01-12052018	460-170982-4	B38659.D	12/16/2018 15:41
9999-23-TB-BK01-12052018	460-170982-5	B38660.D	12/16/2018 16:07
9999-23-MW01-GW01-12052018	460-170982-1	B38662.D	12/16/2018 16:57
9999-23-MW02-GW01-12052018	460-170982-2	B38663.D	12/16/2018 17:21
9999-23-MW03-GW01-12052018	460-170982-3	B38664.D	12/16/2018 17:46

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: B38541.D BFB Injection Date: 12/13/2018

Instrument ID: CVOAMS2 BFB Injection Time: 22:00

Analysis Batch No.: 575626

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	45.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	100.9	
175	5.0 - 9.0 % of mass 174	7.9	(7.8) 1
176	95.0 - 101.0 % of mass 174	100.0	(99.0) 1
177	5.0 - 9.0 % of mass 176	5.7	(5.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-575626/4	B38544.D	12/13/2018	23:23
	STD5 460-575626/5	B38545.D	12/13/2018	23:48
	STD20 460-575626/6	B38546.D	12/14/2018	00:13
	STD50 460-575626/7	B38547.D	12/14/2018	00:38
	STD200 460-575626/8	B38548.D	12/14/2018	01:02
	STD500 460-575626/9	B38549.D	12/14/2018	01:27
	STD7 460-575626/14	B38554.D	12/14/2018	09:53

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: B38637.D BFB Injection Date: 12/16/2018

Instrument ID: CVOAMS2 BFB Injection Time: 06:15

Analysis Batch No.: 576213

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	45.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.6	(0.6) 1
174	50.0 - 120.00 % of mass 95	95.4	
175	5.0 - 9.0 % of mass 174	6.8	(7.1) 1
176	95.0 - 101.0 % of mass 174	95.9	(100.5) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.3) 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 460-576213/3	B38639.D	12/16/2018	07:13
	LCS 460-576213/4	B38640.D	12/16/2018	07:45
	MB 460-576213/8	B38644.D	12/16/2018	09:25
	LCSD 460-576213/21	B38657.D	12/16/2018	14:51
9999-23-FB-BK01-12052018	460-170982-4	B38659.D	12/16/2018	15:41
9999-23-TB-BK01-12052018	460-170982-5	B38660.D	12/16/2018	16:07
9999-23-MW01-GW01-12052018	460-170982-1	B38662.D	12/16/2018	16:57
9999-23-MW02-GW01-12052018	460-170982-2	B38663.D	12/16/2018	17:21
9999-23-MW03-GW01-12052018	460-170982-3	B38664.D	12/16/2018	17:46

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-576213/3 Date Analyzed: 12/16/2018 07:13

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): B38639.D Heated Purge: (Y/N) N

Calibration ID: 72455

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		194098	1.88	186472	2.73	417905	3.89
UPPER LIMIT		388196	2.38	372944	3.23	835810	4.39
LOWER LIMIT		97049	1.38	93236	2.23	208953	3.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-576213/4		200282	1.89	183867	2.73	414028	3.89
MB 460-576213/8		201782	1.87	195725	2.73	412423	3.89
LCSD 460-576213/21		194025	1.87	174867	2.73	384594	3.89
460-170982-4	9999-23-FB-BK01-12052018	167834	1.87	160013	2.73	347338	3.87
460-170982-5	9999-23-TB-BK01-12052018	196768	1.89	192439	2.73	396501	3.89
460-170982-1	9999-23-MW01-GW01-12052018	191432	1.89	184214	2.73	391499	3.89
460-170982-2	9999-23-MW02-GW01-12052018	188598	1.89	178347	2.74	388143	3.89
460-170982-3	9999-23-MW03-GW01-12052018	170777	1.89	160851	2.74	336854	3.89

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-576213/3 Date Analyzed: 12/16/2018 07:13

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): B38639.D Heated Purge: (Y/N) N

Calibration ID: 72455

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		20813	4.72	358738	8.32	201781	12.39
UPPER LIMIT		41626	5.22	717476	8.82	403562	12.89
LOWER LIMIT		10407	4.22	179369	7.82	100891	11.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-576213/4		23169	4.72	358271	8.31	206593	12.39
MB 460-576213/8		21294	4.72	352697	8.31	194123	12.39
LCSD 460-576213/21		19925	4.72	338516	8.32	200371	12.40
460-170982-4	9999-23-FB-BK01-12052018	17381	4.72	301538	8.32	167522	12.40
460-170982-5	9999-23-TB-BK01-12052018	20149	4.72	338526	8.32	189619	12.40
460-170982-1	9999-23-MW01-GW01-12052018	20175	4.72	335009	8.32	185059	12.40
460-170982-2	9999-23-MW02-GW01-12052018	19162	4.72	326071	8.32	182884	12.40
460-170982-3	9999-23-MW03-GW01-12052018	18399	4.72	289479	8.32	158785	12.40

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 | Lab Sample ID: 460-170982-1

Matrix: Water | Lab File ID: B38662.D

Analysis Method: 8260C | Date Collected: 12/05/2018 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 16:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.12	U	1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38
106-93-4	1,2-Dibromoethane	0.50	U	1.0	0.50
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.76	U	1.0	0.76
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	2.9	U	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7
67-64-1	Acetone	5.0	U	5.0	5.0
71-43-2	Benzene	0.43	U	1.0	0.43
74-97-5	Bromochloromethane	0.41	U	1.0	0.41
75-27-4	Bromodichloromethane	0.34	U	1.0	0.34
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.16	U	1.0	0.16
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.14	U	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
110-82-7	Cyclohexane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 | Lab Sample ID: 460-170982-1

Matrix: Water | Lab File ID: B38662.D

Analysis Method: 8260C | Date Collected: 12/05/2018 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 16:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.12	U *	1.0	0.12
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34
79-20-9	Methyl acetate	0.31	U	5.0	0.31
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.14	U	1.0	0.14
75-01-4	Vinyl chloride	0.17	U	1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 | Lab Sample ID: 460-170982-1

Matrix: Water | Lab File ID: B38662.D

Analysis Method: 8260C | Date Collected: 12/05/2018 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 16:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38662.D				
Lims ID:	460-170982-B-1				
Client ID:	9999-23-MW01-GW01-12052018				
Sample Type:	Client				
Inject. Date:	16-Dec-2018 16:57:30	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-170982-B-1				
Misc. Info.:	460-0083648-026				
Operator ID:		Instrument ID:	CVOAMS2		
Method:	\\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m				
Limit Group:	VOA - 8260C DKQP Water and Solid				
Last Update:	22-Feb-2019 15:10:27	Calib Date:	14-Dec-2018 09:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0315				
First Level Reviewer: delpolitov		Date:	17-Dec-2018 11:15:12		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	1.885	1.884	0.001	0	191432	1000.0	
* 39 2-Butanone-d5	46	2.730	2.730	0.000	0	184214	250.0	
$ 51 Dibromofluoromethane (Surr	113	3.210	3.210	0.000	98	105371	52.4	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	59	109890	52.1	
* 63 Fluorobenzene	96	3.885	3.885	0.000	100	391499	50.0	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	96	20175	1000.0	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	98	394105	50.0	
* 92 Chlorobenzene-d5	117	8.320	8.319	0.001	83	335009	50.0	
$ 103 4-Bromofluorobenzene	174	10.445	10.434	0.011	97	148999	49.0	
* 119 1,4-Dichlorobenzene-d4	152	12.400	12.388	0.012	93	185059	50.0	

Reagents:

8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

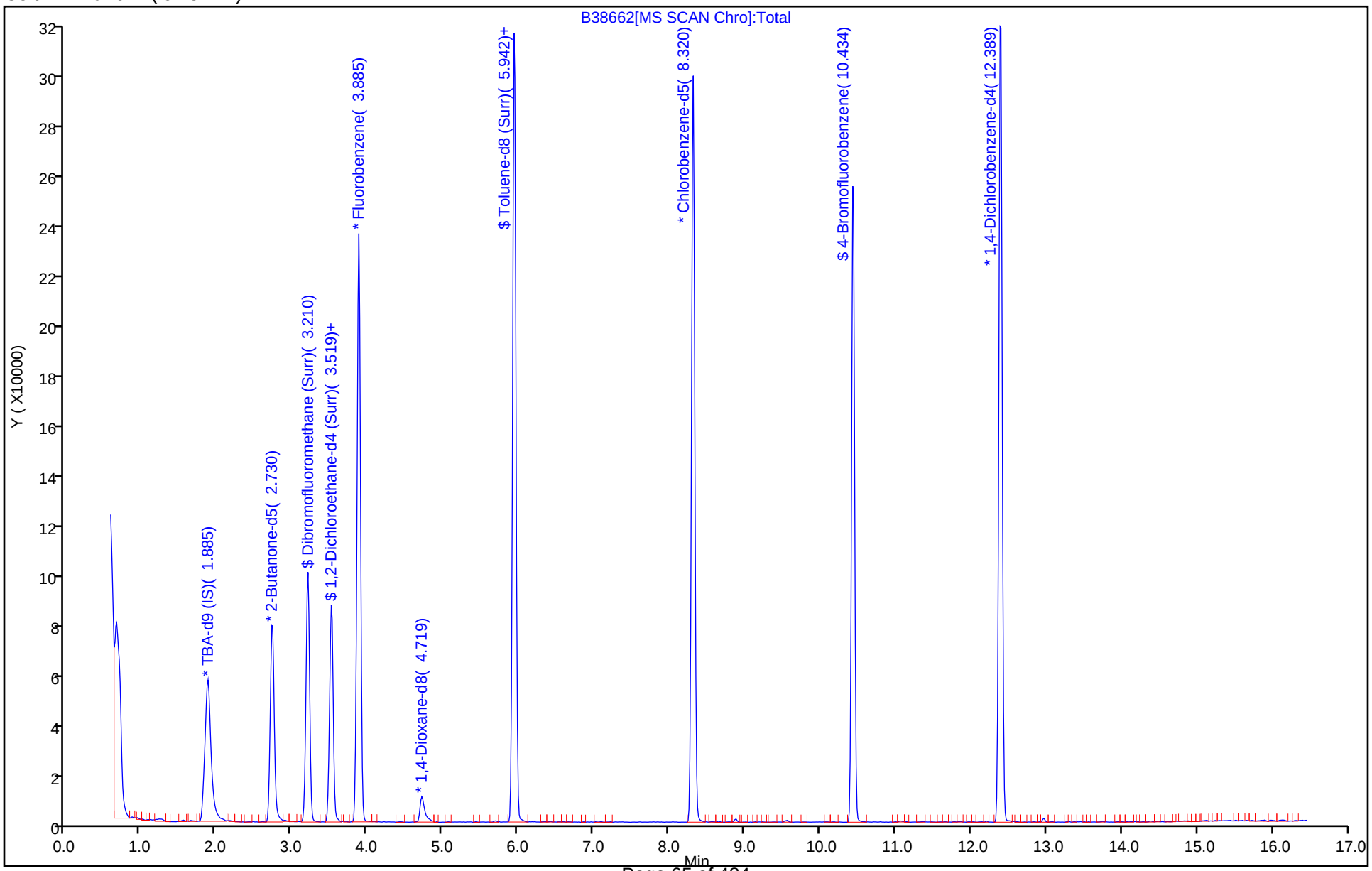
Report Date: 22-Feb-2019 15:12:05 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38662.D

Injection Date:	16-Dec-2018 16:57:30	Instrument ID:	CVOAMS2	Operator ID:	
Lims ID:	460-170982-B-1	Lab Sample ID:	460-170982-1	Worklist Smp#:	26
Client ID:	9999-23-MW01-GW01-12052018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260W_2	Limit Group:	VOA - 8260C DKQP Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW02-GW01-12052018 | Lab Sample ID: 460-170982-2

Matrix: Water | Lab File ID: B38663.D

Analysis Method: 8260C | Date Collected: 12/05/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.12	U	1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38
106-93-4	1,2-Dibromoethane	0.50	U	1.0	0.50
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.76	U	1.0	0.76
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	2.9	U	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7
67-64-1	Acetone	5.0	U	5.0	5.0
71-43-2	Benzene	0.43	U	1.0	0.43
74-97-5	Bromochloromethane	0.41	U	1.0	0.41
75-27-4	Bromodichloromethane	0.34	U	1.0	0.34
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.16	U	1.0	0.16
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.14	U	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
110-82-7	Cyclohexane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW02-GW01-12052018 | Lab Sample ID: 460-170982-2

Matrix: Water | Lab File ID: B38663.D

Analysis Method: 8260C | Date Collected: 12/05/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 17:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.12	U *	1.0	0.12
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34
79-20-9	Methyl acetate	0.31	U	5.0	0.31
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.14	U	1.0	0.14
75-01-4	Vinyl chloride	0.17	U	1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW02-GW01-12052018 Lab Sample ID: 460-170982-2

Matrix: Water Lab File ID: B38663.D

Analysis Method: 8260C Date Collected: 12/05/2018 09:00

Sample wt/vol: 5(mL) Date Analyzed: 12/16/2018 17:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 576213 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38663.D				
Lims ID:	460-170982-B-2				
Client ID:	9999-23-MW02-GW01-12052018				
Sample Type:	Client				
Inject. Date:	16-Dec-2018 17:21:30	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-170982-B-2				
Misc. Info.:	460-0083648-027				
Operator ID:		Instrument ID:	CVOAMS2		
Method:	\\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m				
Limit Group:	VOA - 8260C DKQP Water and Solid				
Last Update:	22-Feb-2019 15:10:27	Calib Date:	14-Dec-2018 09:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0315				
First Level Reviewer: delpolitov		Date:	17-Dec-2018 11:15:41		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	1.885	1.884	0.001	0	188598	1000.0	
* 39 2-Butanone-d5	46	2.742	2.730	0.012	0	178347	250.0	
$ 51 Dibromofluoromethane (Surr	113	3.211	3.210	0.001	97	99491	49.9	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	58	106437	50.9	
* 63 Fluorobenzene	96	3.885	3.885	0.000	99	388143	50.0	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	96	19162	1000.0	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	99	370509	48.3	
* 92 Chlorobenzene-d5	117	8.320	8.319	0.001	83	326071	50.0	
$ 103 4-Bromofluorobenzene	174	10.446	10.434	0.012	97	139753	47.2	
* 119 1,4-Dichlorobenzene-d4	152	12.400	12.388	0.012	92	182884	50.0	

Reagents:

8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

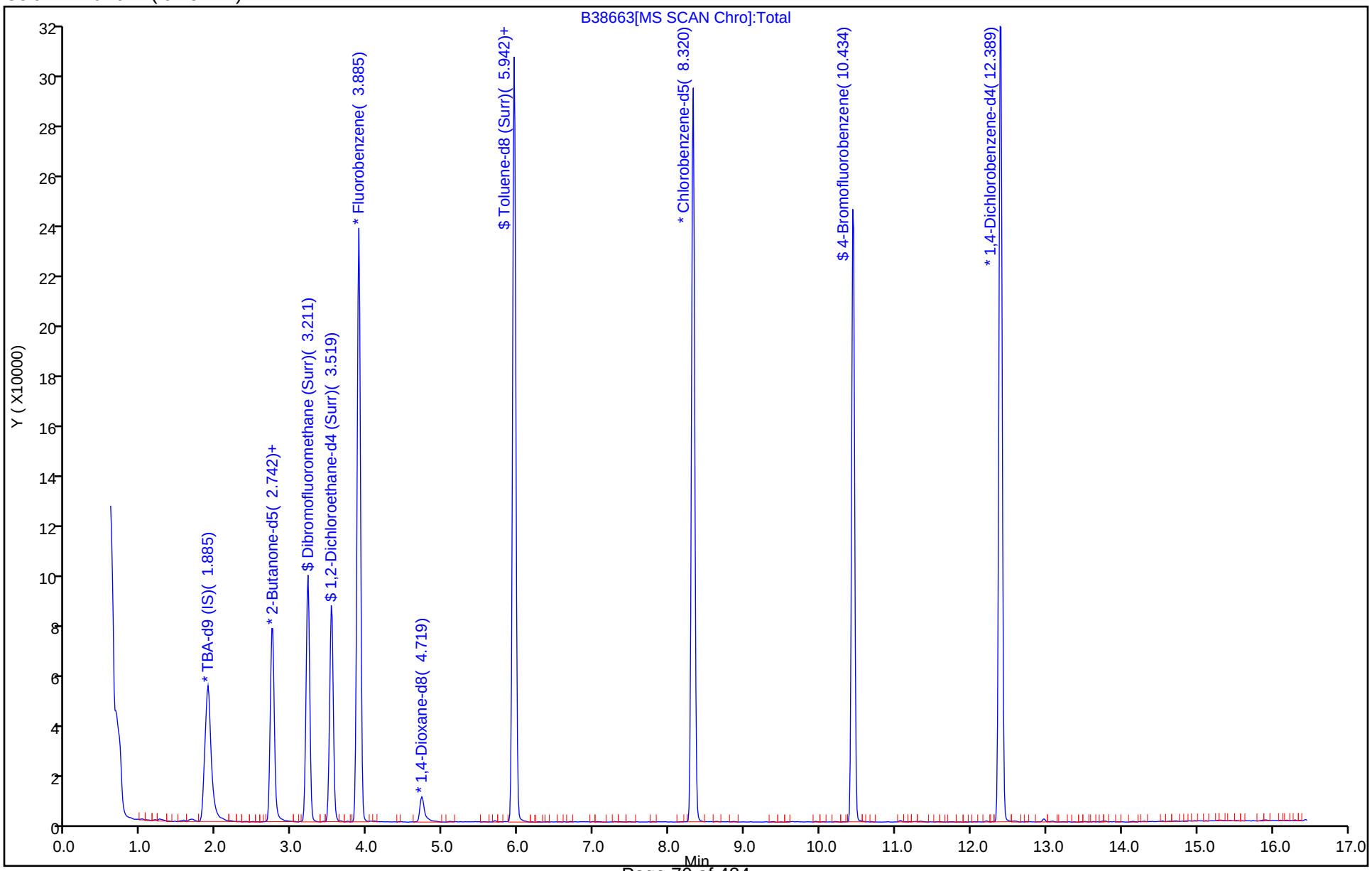
Report Date: 22-Feb-2019 15:12:06 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38663.D

Injection Date:	16-Dec-2018 17:21:30	Instrument ID:	CVOAMS2	Operator ID:	
Lims ID:	460-170982-B-2	Lab Sample ID:	460-170982-2	Worklist Smp#:	27
Client ID:	9999-23-MW02-GW01-12052018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260W_2	Limit Group:	VOA - 8260C DKQP Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW03-GW01-12052018 | Lab Sample ID: 460-170982-3

Matrix: Water | Lab File ID: B38664.D

Analysis Method: 8260C | Date Collected: 12/05/2018 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 17:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.12	U	1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38
106-93-4	1,2-Dibromoethane	0.50	U	1.0	0.50
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.76	U	1.0	0.76
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	2.9	U	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7
67-64-1	Acetone	5.4		5.0	5.0
71-43-2	Benzene	0.43	U	1.0	0.43
74-97-5	Bromochloromethane	0.41	U	1.0	0.41
75-27-4	Bromodichloromethane	0.34	U	1.0	0.34
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.16	U	1.0	0.16
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.14	U	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
110-82-7	Cyclohexane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW03-GW01-12052018 | Lab Sample ID: 460-170982-3

Matrix: Water | Lab File ID: B38664.D

Analysis Method: 8260C | Date Collected: 12/05/2018 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 17:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.12	U *	1.0	0.12
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34
79-20-9	Methyl acetate	0.31	U	5.0	0.31
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.14	U	1.0	0.14
75-01-4	Vinyl chloride	0.17	U	1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	109		70-130
2037-26-5	Toluene-d8 (Surr)	111		70-130
460-00-4	4-Bromofluorobenzene	109		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW03-GW01-12052018 | Lab Sample ID: 460-170982-3

Matrix: Water | Lab File ID: B38664.D

Analysis Method: 8260C | Date Collected: 12/05/2018 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 17:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38664.D
Lims ID: 460-170982-B-3
Client ID: 9999-23-MW03-GW01-12052018
Sample Type: Client
Inject. Date: 16-Dec-2018 17:46:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-170982-B-3
Misc. Info.: 460-0083648-028
Operator ID: Instrument ID: CVOAMS2

Method: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 22-Feb-2019 15:10:27 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0315

First Level Reviewer: parekhv Date: 16-Dec-2018 23:26:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	1.565	1.553	0.012	95	2862	5.43	
* 27 TBA-d9 (IS)	65	1.885	1.884	0.001	0	170777	1000.0	
* 39 2-Butanone-d5	46	2.742	2.730	0.012	0	160851	250.0	
$ 51 Dibromofluoromethane (Surr	113	3.210	3.210	0.000	98	94101	54.4	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	59	103453	57.0	
* 63 Fluorobenzene	96	3.885	3.885	0.000	100	336854	50.0	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	96	18399	1000.0	
$ 81 Toluene-d8 (Surr)	98	5.954	5.942	0.012	99	379522	55.7	
* 92 Chlorobenzene-d5	117	8.320	8.319	0.001	83	289479	50.0	
$ 103 4-Bromofluorobenzene	174	10.445	10.434	0.011	97	142866	54.4	
* 119 1,4-Dichlorobenzene-d4	152	12.400	12.388	0.012	93	158785	50.0	

Reagents:

8260ISNEW_00092 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00188 Amount Added: 1.00 Units: uL Run Reagent

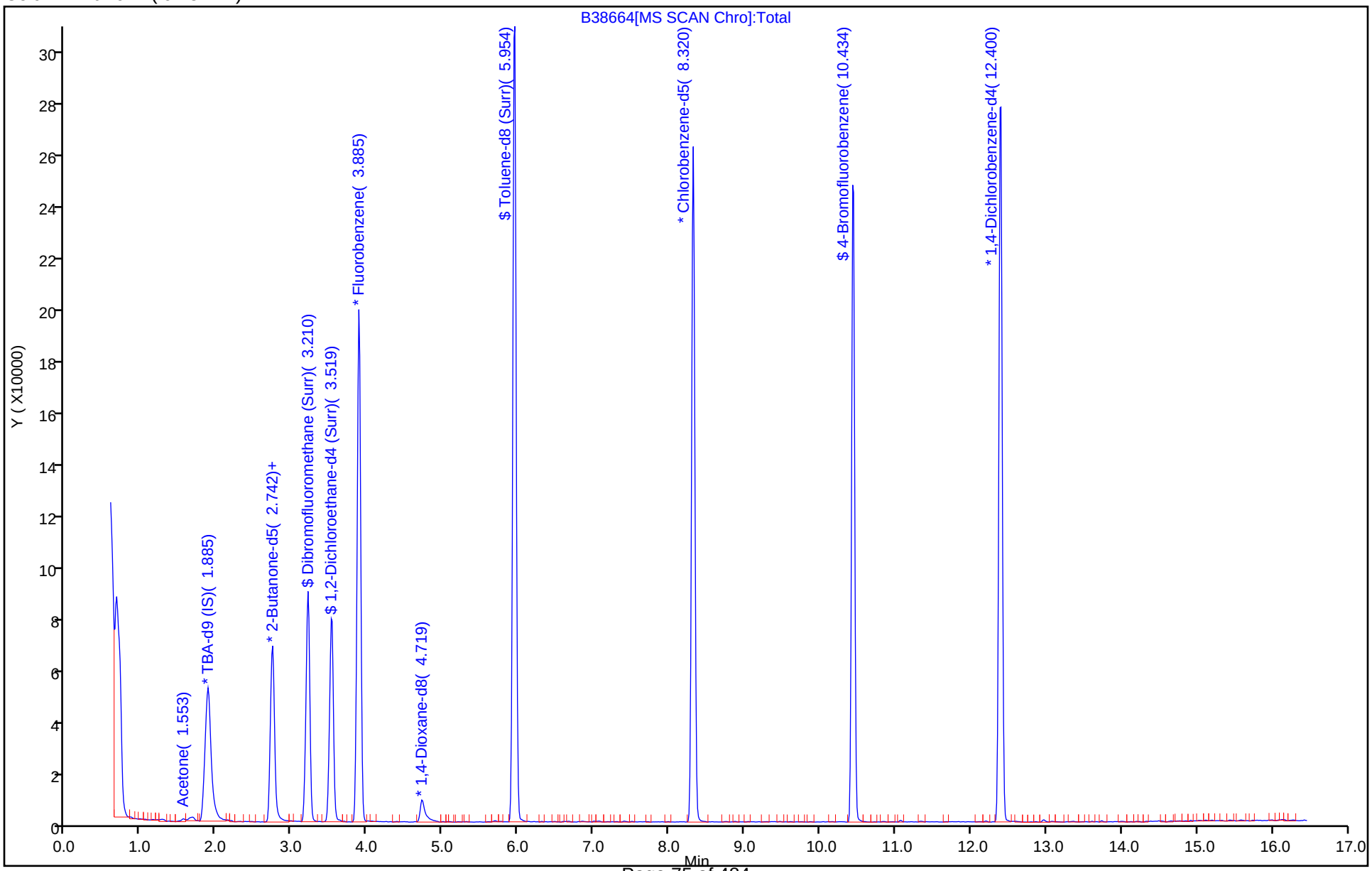
Report Date: 22-Feb-2019 15:12:07 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38664.D

Injection Date:	16-Dec-2018 17:46:30	Instrument ID:	CVOAMS2	Operator ID:	
Lims ID:	460-170982-B-3	Lab Sample ID:	460-170982-3	Worklist Smp#:	28
Client ID:	9999-23-MW03-GW01-12052018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260W_2	Limit Group:	VOA - 8260C DKQP Water and Solid		

Column: Rtx-624 (0.25 mm)



Report Date: 22-Feb-2019 15:12:07 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38664.D

Injection Date: 16-Dec-2018 17:46:30 Instrument ID: CVOAMS2

Lims ID: 460-170982-B-3 Lab Sample ID: 460-170982-3

Client ID: 9999-23-MW03-GW01-12052018

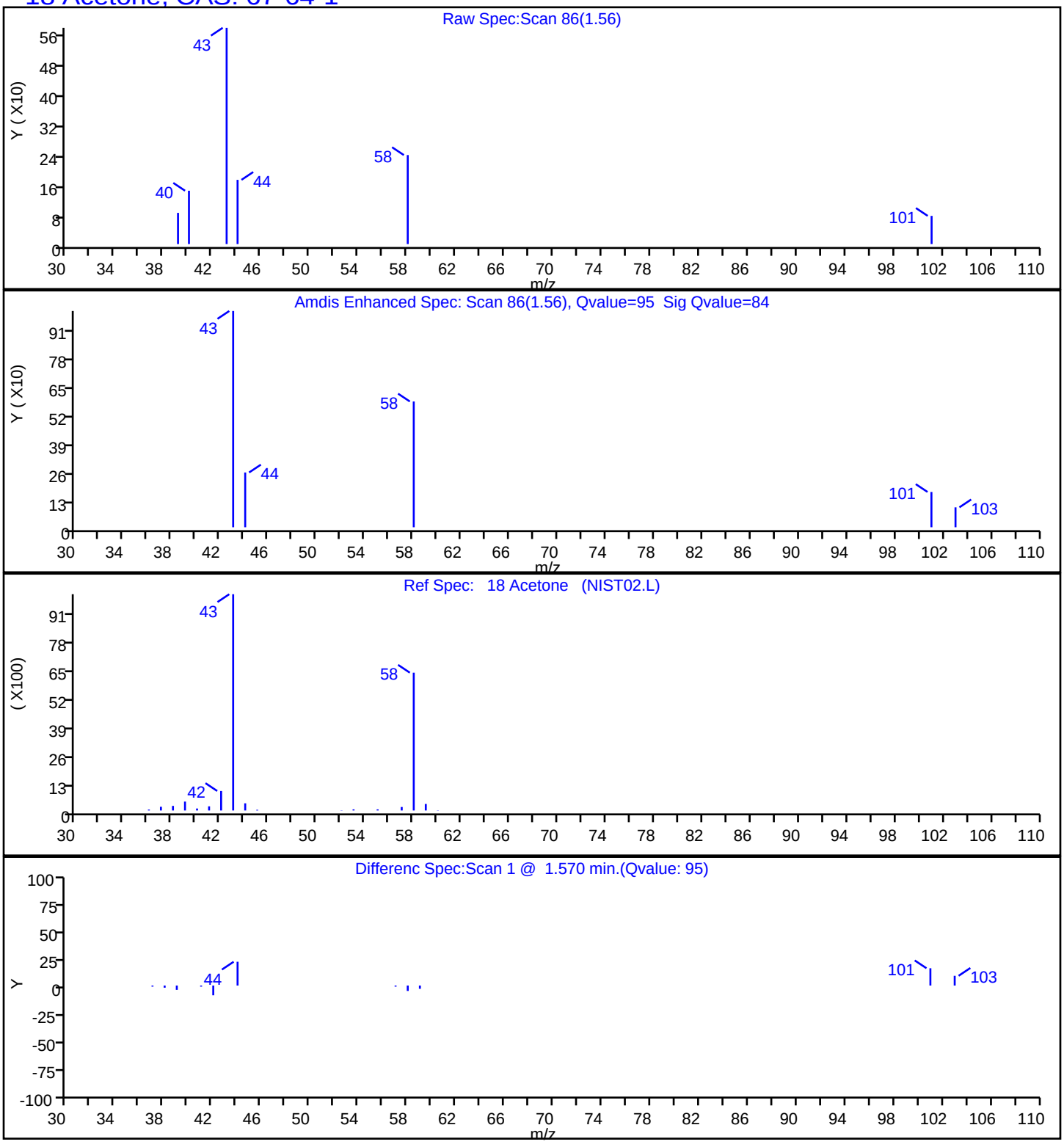
Operator ID: ALS Bottle#: 27 Worklist Smp#: 28

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018 | Lab Sample ID: 460-170982-4

Matrix: Water | Lab File ID: B38659.D

Analysis Method: 8260C | Date Collected: 12/05/2018 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.12	U	1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38
106-93-4	1,2-Dibromoethane	0.50	U	1.0	0.50
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.76	U	1.0	0.76
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	2.9	U	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7
67-64-1	Acetone	5.0	U	5.0	5.0
71-43-2	Benzene	0.43	U	1.0	0.43
74-97-5	Bromochloromethane	0.41	U	1.0	0.41
75-27-4	Bromodichloromethane	0.34	U	1.0	0.34
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.16	U	1.0	0.16
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.14	U	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
110-82-7	Cyclohexane	0.32	U	1.0	0.32
124-48-1	Dibromochloromethane	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018 | Lab Sample ID: 460-170982-4

Matrix: Water | Lab File ID: B38659.D

Analysis Method: 8260C | Date Collected: 12/05/2018 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.12	U *	1.0	0.12
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34
79-20-9	Methyl acetate	0.31	U	5.0	0.31
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.14	U	1.0	0.14
75-01-4	Vinyl chloride	0.17	U	1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	110		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130
460-00-4	4-Bromofluorobenzene	108		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018 Lab Sample ID: 460-170982-4

Matrix: Water Lab File ID: B38659.D

Analysis Method: 8260C Date Collected: 12/05/2018 15:00

Sample wt/vol: 5(mL) Date Analyzed: 12/16/2018 15:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 576213 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I-TIC 8260C

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38659.D				
Lims ID:	460-170982-B-4				
Client ID:	9999-23-FB-BK01-12052018				
Sample Type:	Client				
Inject. Date:	16-Dec-2018 15:41:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-170982-B-4				
Misc. Info.:	460-0083648-023				
Operator ID:		Instrument ID:	CVOAMS2		
Method:	\\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m				
Limit Group:	VOA - 8260C DKQP Water and Solid				
Last Update:	22-Feb-2019 15:10:27	Calib Date:	14-Dec-2018 09:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0315				
First Level Reviewer: kaewink		Date:	22-Feb-2019 15:10:27		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	1.873	1.884	-0.011	0	167834	1000.0	
* 39 2-Butanone-d5	46	2.730	2.730	0.000	0	160013	250.0	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.210	-0.011	99	98203	55.1	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	59	100745	53.8	
* 63 Fluorobenzene	96	3.873	3.885	-0.012	100	347338	50.0	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	96	17381	1000.0	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	100	378632	53.4	
* 92 Chlorobenzene-d5	117	8.319	8.319	0.000	83	301538	50.0	
$ 103 4-Bromofluorobenzene	174	10.434	10.434	0.000	97	148092	54.1	
* 119 1,4-Dichlorobenzene-d4	152	12.400	12.388	0.012	93	167522	50.0	

Reagents:

8260ISNEW_00092	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added: 1.00	Units: uL	Run Reagent

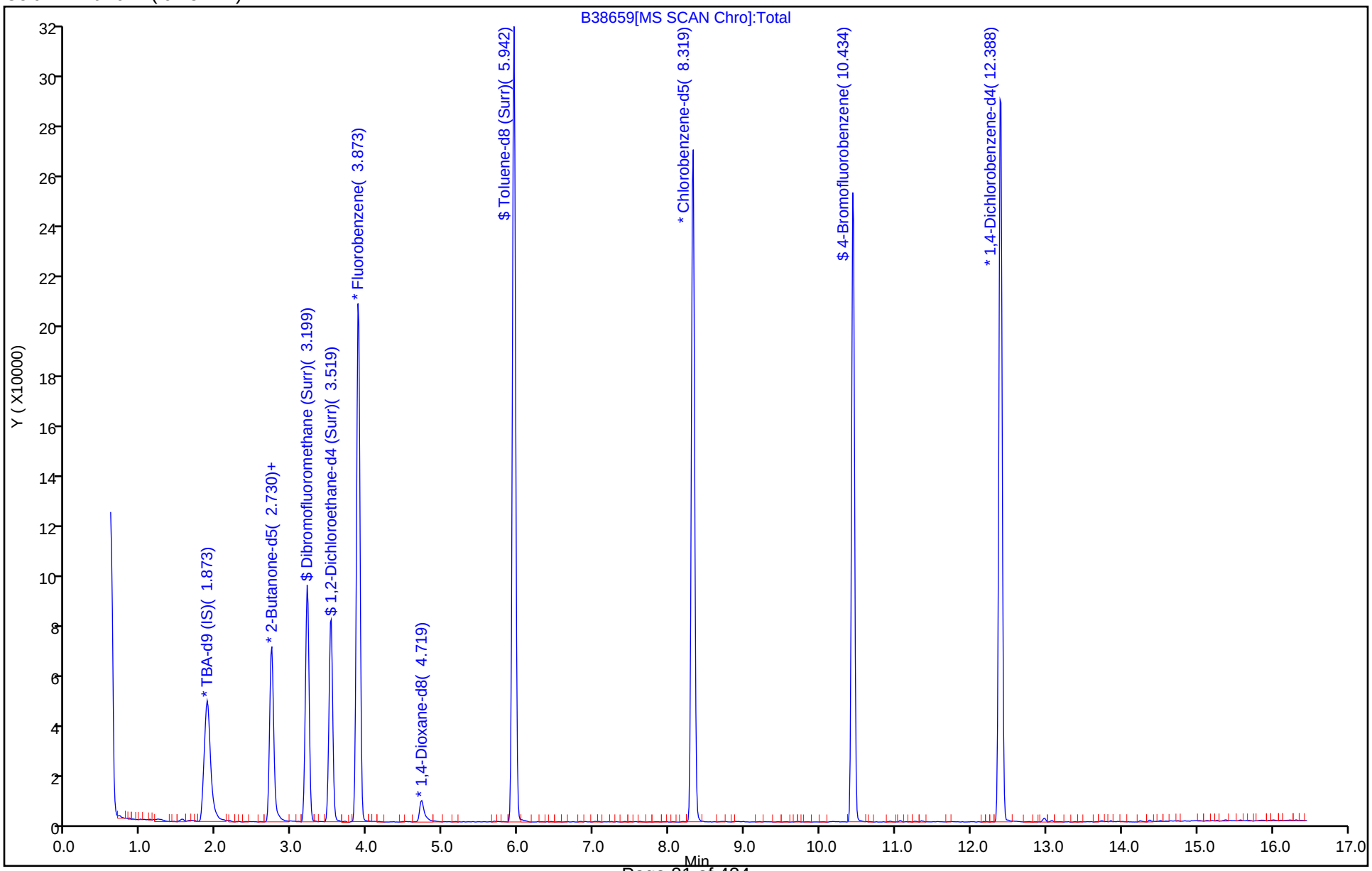
Report Date: 22-Feb-2019 15:12:08 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38659.D

Injection Date:	16-Dec-2018 15:41:30	Instrument ID:	CVOAMS2	Operator ID:	
Lims ID:	460-170982-B-4	Lab Sample ID:	460-170982-4	Worklist Smp#:	23
Client ID:	9999-23-FB-BK01-12052018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260W_2	Limit Group:	VOA - 8260C DKQP Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-TB-BK01-12052018 | Lab Sample ID: 460-170982-5

Matrix: Water | Lab File ID: B38660.D

Analysis Method: 8260C | Date Collected: 12/05/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 16:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.12	U	1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.76	U	1.0	0.76
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	2.9	U	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7
67-64-1	Acetone	5.0	U	5.0	5.0
71-43-2	Benzene	0.43	U	1.0	0.43
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.16	U	1.0	0.16
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Bromochloromethane	0.41	U	1.0	0.41
124-48-1	Dibromochloromethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.14	U	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Bromodichloromethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.12	U *	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-TB-BK01-12052018 | Lab Sample ID: 460-170982-5

Matrix: Water | Lab File ID: B38660.D

Analysis Method: 8260C | Date Collected: 12/05/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 16:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	1,2-Dibromoethane	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34
79-20-9	Methyl acetate	0.31	U	5.0	0.31
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	3.1		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.14	U	1.0	0.14
75-01-4	Vinyl chloride	0.17	U	1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-TB-BK01-12052018 | Lab Sample ID: 460-170982-5

Matrix: Water | Lab File ID: B38660.D

Analysis Method: 8260C | Date Collected: 12/05/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 16:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38660.D
Lims ID: 460-170982-B-5
Client ID: 9999-23-TB-BK01-12052018
Sample Type: Client
Inject. Date: 16-Dec-2018 16:07:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-170982-B-5
Misc. Info.: 460-0083648-024
Operator ID: Instrument ID: CVOAMS2

Method: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 22-Feb-2019 15:10:27 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0315

First Level Reviewer: parekhv Date: 16-Dec-2018 23:23:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
26 Methylene Chloride	84	1.827	1.816	0.011	85	8005	3.13	
* 27 TBA-d9 (IS)	65	1.885	1.884	0.000	0	196768	1000.0	
* 39 2-Butanone-d5	46	2.730	2.730	0.000	0	192439	250.0	
$ 51 Dibromofluoromethane (Surr	113	3.210	3.210	0.000	98	100758	49.5	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	59	104908	49.1	
* 63 Fluorobenzene	96	3.885	3.885	0.000	100	396501	50.0	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	96	20149	1000.0	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	99	384148	48.2	
* 92 Chlorobenzene-d5	117	8.319	8.319	0.000	83	338526	50.0	
$ 103 4-Bromofluorobenzene	174	10.445	10.434	0.011	97	153506	49.9	
* 119 1,4-Dichlorobenzene-d4	152	12.400	12.388	0.012	93	189619	50.0	

Reagents:

8260ISNEW_00092 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00188 Amount Added: 1.00 Units: uL Run Reagent

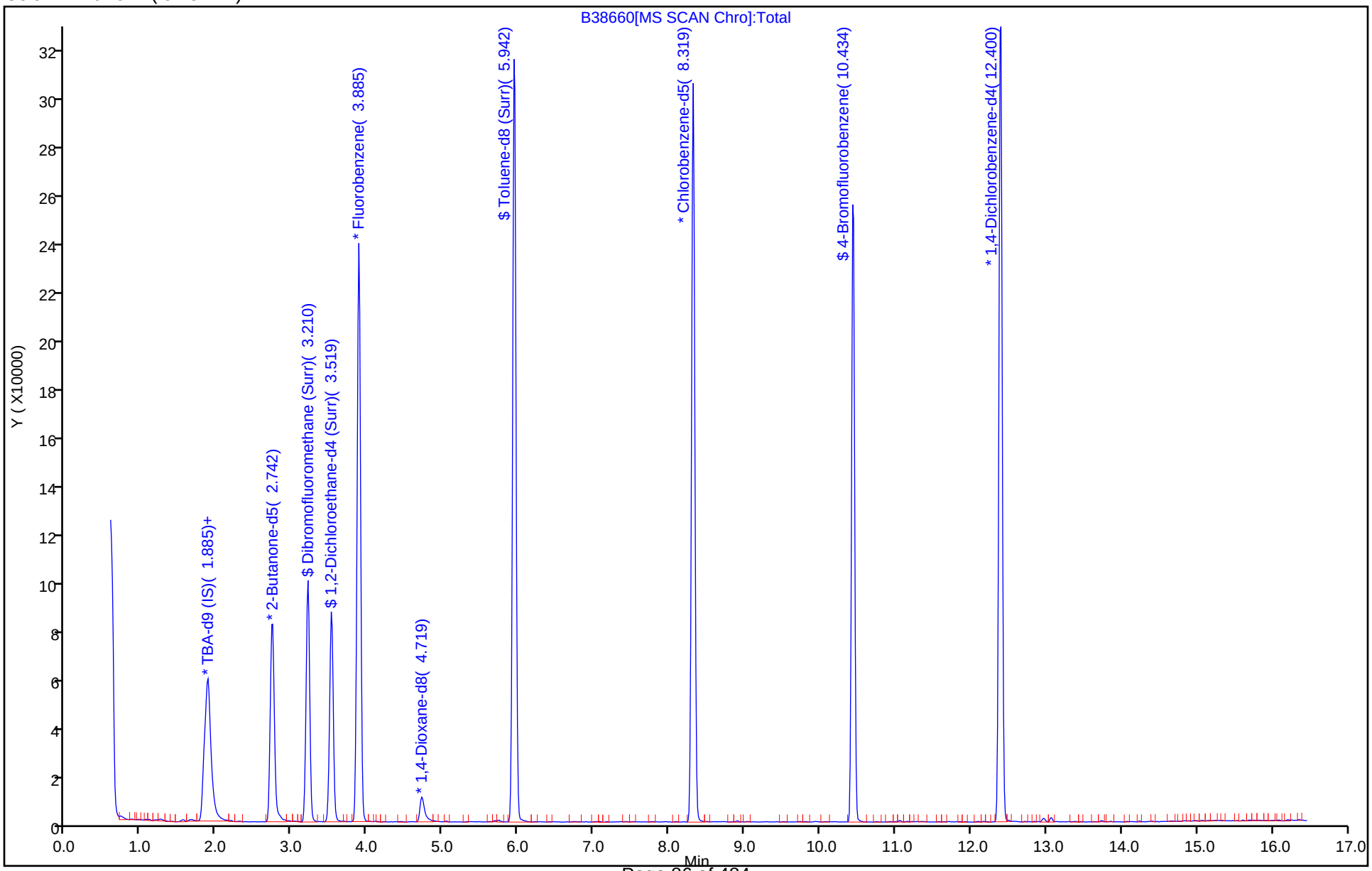
Report Date: 22-Feb-2019 15:12:10 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38660.D

Injection Date:	16-Dec-2018 16:07:30	Instrument ID:	CVOAMS2	Operator ID:	
Lims ID:	460-170982-B-5	Lab Sample ID:	460-170982-5	Worklist Smp#:	24
Client ID:	9999-23-TB-BK01-12052018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260W_2	Limit Group:	VOA - 8260C DKQP Water and Solid		

Column: Rtx-624 (0.25 mm)



Report Date: 22-Feb-2019 15:12:10 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38660.D

Injection Date: 16-Dec-2018 16:07:30 Instrument ID: CVOAMS2

Lims ID: 460-170982-B-5 Lab Sample ID: 460-170982-5

Client ID: 9999-23-TB-BK01-12052018

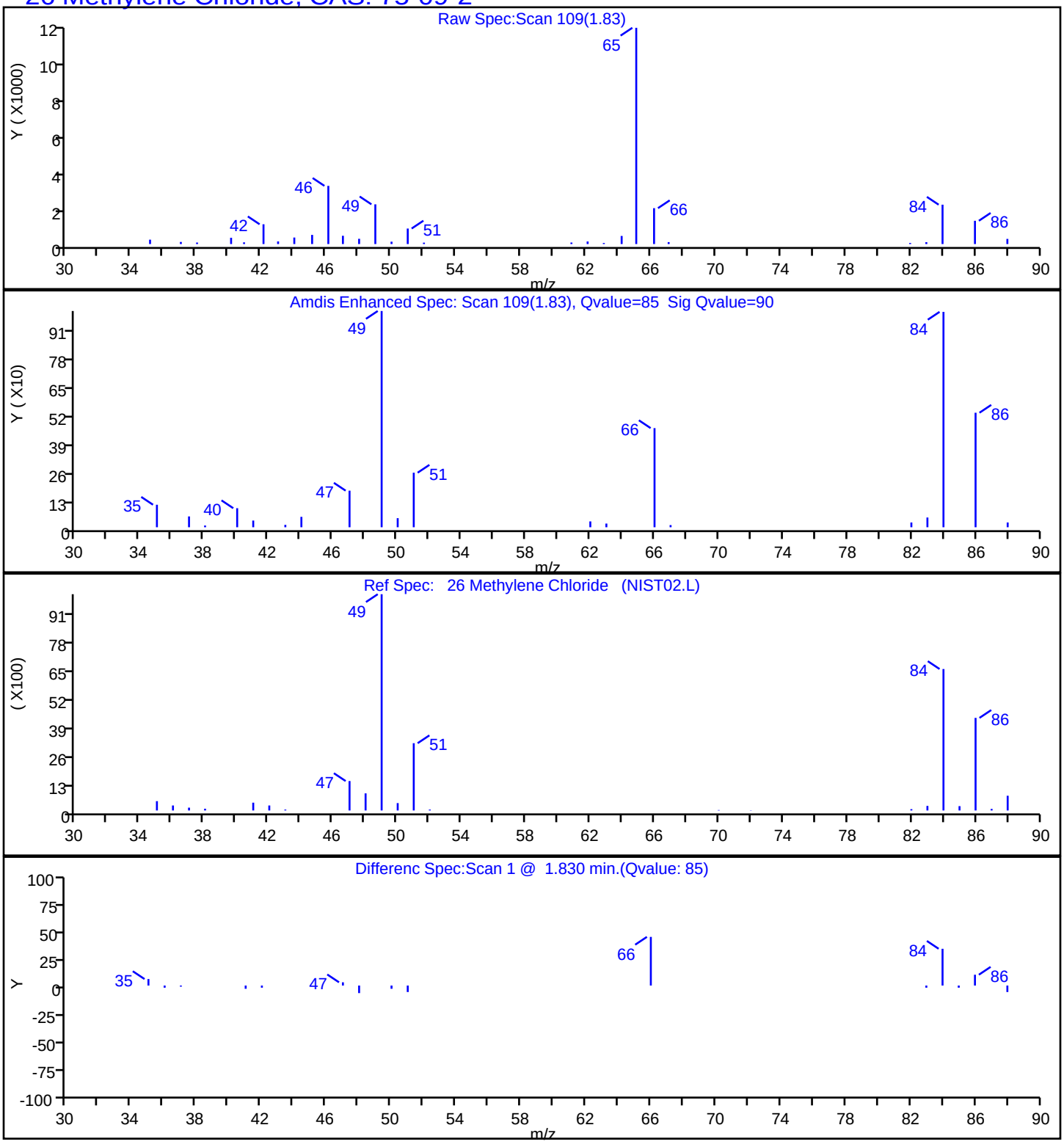
Operator ID: ALS Bottle#: 23 Worklist Smp#: 24

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2



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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-575626/14	B38554.D
Level 2	STD1 460-575626/4	B38544.D
Level 3	STD5 460-575626/5	B38545.D
Level 4	STD20 460-575626/6	B38546.D
Level 5	STD50 460-575626/7	B38547.D
Level 6	STD200 460-575626/8	B38548.D
Level 7	STD500 460-575626/9	B38549.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 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.1125	0.0862 0.0924	0.0838	0.0875	0.0992	Ave		0.0936				11.5		20.0			
Dichlorodifluoromethane	+++++ 0.3612	0.3086 0.3001	0.3220	0.3258	0.3511	Ave		0.3281			0.1000	7.2		20.0			
Chloromethane	+++++ 0.4794	0.4967 0.4026	0.4434	0.4463	0.4539	Ave		0.4537			0.1000	7.2		20.0			
Butadiene	0.5583 0.2879	0.2592 0.2414	0.2538	0.2585	0.2750	QuaF		0.3126	-0.000142						1.0000		0.9900
Vinyl chloride	+++++ 0.3652	0.3809 0.3073	0.3161	0.3350	0.3513	Ave		0.3426			0.1000	8.3		20.0			
Bromomethane	+++++ 0.2800	0.3025 0.2203	0.2490	0.2700	0.2671	Ave		0.2648			0.1000	10.6		20.0			
Chloroethane	+++++ 0.2011	0.2308 0.1647	0.1861	0.1933	0.1953	Ave		0.1952			0.1000	11.0		20.0			
Dichlorofluoromethane	+++++ 0.5646	0.5572 0.4815	0.5189	0.5099	0.5436	Ave		0.5293				6.0		20.0			
Trichlorofluoromethane	+++++ 0.4334	0.3800 0.3681	0.3780	0.3698	0.3992	Ave		0.3881			0.1000	6.4		20.0			
Pentane	+++++ 1.7962	1.0921 1.7379	1.7622	1.3628	1.4459	Ave		1.5328				18.3		20.0			
Ethanol	+++++ 0.0527	0.0340 +++++	0.0425	0.0496	0.0490	Ave		0.0456				16.4		20.0			
Ethyl ether	+++++ 0.2185	0.1996 0.1975	0.2076	0.2075	0.2077	Ave		0.2064				3.6		20.0			
2-Methyl-1,3-butadiene	+++++ 0.2296	0.2059 0.1971	0.1915	0.2056	0.2031	Ave		0.2055				6.4		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2402	0.2391 0.2033	0.2405	0.2242	0.2314	Ave		0.2298				6.3		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 Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

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 4	LVL 5		B	M1	M2								
Acrolein	+++++ 1.8945	1.9088 1.9563	1.9658	1.7773	1.8368	Ave		1.8899				3.8		20.0			
1,1-Dichloroethene	+++++ 0.2732	0.2333 0.2374	0.2573	0.2518	0.2592	Ave		0.2520			0.1000	5.9		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2565	0.1697 0.2174	0.2217	0.2304	0.2367	Ave		0.2221			0.1000	13.1		20.0			
Acetone	+++++ 0.9902	1.0205 0.6299	0.8326	0.7339	0.7094	Ave		0.8194			0.0500	19.3		20.0			
Iodomethane	+++++ 0.6032	0.5579 0.5164	0.5714	0.5432	0.5779	Ave		0.5617				5.3		20.0			
Carbon disulfide	+++++ 1.0130	1.0363 1.0025	0.9051	0.8861	0.9383	Ave		0.9635			0.1000	6.4		20.0			
Isopropyl alcohol	+++++ 0.6763	0.6893 0.7585	0.7439	0.6451	0.6557	Ave		0.6948				6.7		20.0			
3-Chloro-1-propene	+++++ 0.1773	0.1469 0.1604	0.1833	0.2126	0.1580	Ave		0.1731				13.6		20.0			
Acetonitrile	+++++ 0.0820	0.0826 0.0720	0.0741	0.0761	0.0770	Ave		0.0773				5.5		20.0			
Methyl acetate	+++++ 0.1928	0.1476 0.1762	0.1477	0.1743	0.1703	Ave		0.1681			0.1000	10.5		20.0			
Cyclopentene	+++++ 0.6600	0.6015 0.5747	0.6049	0.5597	0.5806	Ave		0.5969				5.9		20.0			
Methylene Chloride	+++++ 0.3334	0.3613 0.2925	0.3227	0.3138	0.3143	Ave		0.3230			0.1000	7.1		20.0			
2-Methyl-2-propanol	+++++ 1.2493	1.4611 1.2118	1.2530	1.1674	1.0676	Ave		1.2351				10.5		20.0			
Acrylonitrile	0.1608 0.1029	0.0971 0.0938	0.1018	0.1004	0.0972	Lin2	0.1240	0.0966							0.9960		0.9900
trans-1,2-Dichloroethene	+++++ 0.3160	0.2677 0.2732	0.2917	0.2917	0.2966	Ave		0.2895			0.1000	6.0		20.0			
Methyl tert-butyl ether	+++++ 0.8031	0.7889 0.7048	0.8001	0.7735	0.7687	Ave		0.7732			0.1000	4.7		20.0			
Hexane	+++++ 0.1827	0.1891 0.1582	0.1529	0.1584	0.1651	Ave		0.1677				8.8		20.0			
1,1-Dichloroethane	+++++ 0.5076	0.4673 0.4504	0.4803	0.4573	0.4750	Ave		0.4730			0.2000	4.3		20.0			
Vinyl acetate	+++++ 2.2874	2.3108 2.6463	2.2196	2.2763	2.2865	Ave		2.3378				6.6		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2709	0.1982 0.2379	0.2484	0.2343	0.2557	Ave		0.2409				10.3		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 Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

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 4	LVL 5		B	M1	M2								
Isopropyl ether	+++++ 0.8460	0.8768 0.7414	0.8015	0.8081	0.8299	Ave		0.8173				5.6		20.0			
Tert-butyl ethyl ether	+++++ 0.3580	0.2960 0.3106	0.3343	0.3315	0.3463	Ave		0.3294				6.9		20.0			
cis-1,2-Dichloroethene	+++++ 0.3583	0.3283 0.3150	0.3393	0.3299	0.3351	Ave		0.3343			0.1000	4.3		20.0			
2,2-Dichloropropane	+++++ 0.2322	0.5121 0.1861	0.3068	0.2103	0.2161	QuaF		0.2565	-0.000140						0.9990		0.9900
2-Butanone (MEK)	+++++ 0.3728	0.3378 0.3020	0.3475	0.3281	0.3189	Ave		0.3345			0.0500	7.3		20.0			
Propionitrile	+++++ 1.5640	1.6418 1.6416	1.5308	1.4342	1.4108	Ave		1.5372				6.5		20.0			
Ethyl acetate	+++++ 0.3072	0.3965 0.2779	0.2770	0.2915	0.2927	Ave		0.3071				14.7		20.0			
Methyl acrylate	+++++ 0.0447	0.0195 0.0410	0.0323	0.0399	0.0406	QuaF		0.0461	-0.000010						1.0000		0.9900
Methacrylonitrile	+++++ 0.1177	0.1149 0.1079	0.1090	0.1146	0.1110	Ave		0.1125				3.4		20.0			
Bromochloromethane	+++++ 0.1855	0.2021 0.1629	0.1793	0.1734	0.1743	Ave		0.1796				7.4		20.0			
Tetrahydrofuran	+++++ 0.3945	0.3943 0.3445	0.4009	0.3663	0.3726	Ave		0.3788				5.7		20.0			
Chloroform	+++++ 0.5127	0.5024 0.4507	0.4750	0.4549	0.4796	Ave		0.4792			0.2000	5.2		20.0			
1,1,1-Trichloroethane	+++++ 0.4474	0.4048 0.3809	0.3856	0.3717	0.4109	Ave		0.4002			0.1000	6.9		20.0			
Cyclohexane	+++++ 0.4124	0.3632 0.3549	0.3689	0.3546	0.3678	Ave		0.3703			0.1000	5.8		20.0			
1,1-Dichloropropene	+++++ 0.3698	0.4117 0.3235	0.3250	0.3150	0.3327	Ave		0.3463				10.8		20.0			
Carbon tetrachloride	+++++ 0.3673	0.3322 0.3166	0.3209	0.3052	0.3290	Ave		0.3285			0.1000	6.5		20.0			
Benzene	+++++ 1.3769	1.4219 1.2685	1.2804	1.2388	1.2931	Ave		1.3133			0.5000	5.4		20.0			
Isobutyl alcohol	+++++ 0.1560	0.0625 0.1503	0.1435	0.1338	0.1292	Lin2	-2.058	0.1467							0.9940		0.9900
1,2-Dichloroethane	+++++ 0.3684	0.4414 0.3343	0.3635	0.3488	0.3425	Ave		0.3665			0.1000	10.6		20.0			
Isooctane	+++++ 0.7543	0.5248 0.6450	0.6314	0.6169	0.6652	Ave		0.6396				11.6		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 Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

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 4	LVL 5		B	M1	M2								
Isopropyl acetate	+++++ 0.1100	0.1143 0.1030	0.0829	0.0989	0.0965	Ave		0.1009				11.0		20.0			
Tert-amyl methyl ether	+++++ 0.9909	0.9692 0.8494	0.8803	0.9152	0.9153	Ave		0.9201				5.8		20.0			
n-Heptane	+++++ 0.2937	0.2339 0.2605	0.2673	0.2298	0.2521	Ave		0.2562				9.2		20.0			
Trichloroethene	+++++ 0.2955	0.2668 0.2637	0.2633	0.2658	0.2763	Ave		0.2719			0.2000	4.6		20.0			
n-Butanol	+++++ 0.1606	0.1438 0.1668	0.1087	0.1410	0.1274	Ave		0.1414				15.1		20.0			
Ethyl acrylate	+++++ 0.6937	0.5710 0.6066	0.5996	0.6122	0.6166	Ave		0.6166				6.7		20.0			
Methylcyclohexane	+++++ 0.4700	0.3668 0.4086	0.4002	0.3882	0.4178	Ave		0.4086			0.1000	8.5		20.0			
1,2-Dichloropropane	+++++ 0.2921	0.2325 0.2564	0.2718	0.2671	0.2716	Ave		0.2653			0.1000	7.5		20.0			
Dibromomethane	+++++ 0.1936	0.1828 0.1721	0.1871	0.1851	0.1786	Ave		0.1832				4.0		20.0			
1,4-Dioxane	+++++ 1.2378	1.1257 1.2769	1.1849	1.3521	1.1818	Ave		1.2265				6.6		20.0			
Methyl methacrylate	+++++ 0.0869	0.0766 0.0770	0.0698	0.0854	0.0789	Ave		0.0791				7.9		20.0			
n-Propyl acetate	+++++ 0.3807	0.3444 0.3381	0.3083	0.3450	0.3247	Ave		0.3402				7.1		20.0			
Bromodichloromethane	+++++ 0.3865	0.3549 0.3517	0.3429	0.3409	0.3625	Ave		0.3566			0.2000	4.7		20.0			
2-Nitropropane	+++++ 0.0689	0.0434 0.0637	0.0470	0.0608	0.0593	Ave		0.0572				17.3		20.0			
2-Chloroethyl vinyl ether	+++++ 0.2212	0.2016 0.1928	0.1837	0.2047	0.1942	Ave		0.1997				6.4		20.0			
Epichlorohydrin	0.0589 0.0764	0.0582 0.0635	0.0645	0.0679	0.0671	Ave		0.0652				9.5		20.0			
cis-1,3-Dichloropropene	+++++ 0.5638	0.4977 0.5049	0.4873	0.4915	0.5197	Ave		0.5108			0.2000	5.6		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.8301	2.6166 2.4184	2.5726	2.5154	2.5168	Ave		2.5783			0.0500	5.4		20.0			
Toluene	+++++ 1.5065	1.5433 1.3458	1.4211	1.3759	1.3834	Ave		1.4293			0.4000	5.5		20.0			
trans-1,3-Dichloropropene	+++++ 0.5406	0.4025 0.4857	0.4509	0.4714	0.4692	Ave		0.4700			0.1000	9.6		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 Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

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 4	LVL 5		B	M1	M2								
1,1,2-Trichloroethane	+++++ 0.2776	0.2643 0.2527	0.2626	0.2553	0.2590	Ave		0.2619			0.1000	3.4		20.0			
Ethyl methacrylate	+++++ 0.4736	0.3904 0.4347	0.3588	0.4269	0.4199	Ave		0.4174				9.4		20.0			
Tetrachloroethene	+++++ 0.4203	0.3885 0.3725	0.3722	0.3817	0.3888	Ave		0.3873			0.2000	4.6		20.0			
1,3-Dichloropropane	+++++ 0.5451	0.4979 0.4873	0.4654	0.4950	0.5052	Ave		0.4993				5.3		20.0			
2-Hexanone	+++++ 2.1310	1.5219 1.6675	1.6804	1.7864	1.7338	Ave		1.7535			0.0500	11.7		20.0			
Dibromochloromethane	+++++ 0.4014	0.3149 0.3666	0.3194	0.3510	0.3461	Ave		0.3499			0.1000	9.1		20.0			
1,2-Dibromoethane	+++++ 0.3814	0.3354 0.3423	0.3342	0.3483	0.3441	Ave		0.3476			0.1000	5.0		20.0			
n-Butyl acetate	+++++ 0.0962	0.0736 0.0890	0.0785	0.0889	0.0821	Ave		0.0847				9.7		20.0			
Chlorobenzene	+++++ 1.0624	1.0921 0.9300	1.0010	0.9722	0.9877	Ave		1.0076			0.5000	5.9		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3716	0.3428 0.3483	0.3261	0.3080	0.3308	Ave		0.3379				6.4		20.0			
Ethylbenzene	+++++ 0.5656	0.5366 0.4950	0.5113	0.5091	0.5083	Ave		0.5210			0.1000	4.9		20.0			
m-Xylene & p-Xylene	+++++ 0.6896	0.6578 0.6093	0.5995	0.6074	0.6377	Ave		0.6336			0.1000	5.6		20.0			
o-Xylene	+++++ 0.6744	0.6198 0.6172	0.5925	0.6111	0.6314	Ave		0.6244			0.3000	4.4		20.0			
Styrene	+++++ 1.2233	0.9869 1.0871	1.0493	1.0721	1.1093	Ave		1.0880			0.3000	7.2		20.0			
n-Butyl acrylate	+++++ 0.3081	0.2212 0.2905	0.2329	0.2677	0.2740	Ave		0.2657				12.5		20.0			
Bromoform	+++++ 0.3020	0.2309 0.2859	0.2039	0.2332	0.2492	Ave		0.2509			0.1000	14.7		20.0			
Amyl acetate (mixed isomers)	+++++ 1.1429	0.9091 1.0598	0.9269	1.0066	0.9866	Ave		1.0053				8.6		20.0			
Isopropylbenzene	+++++ 1.6451	1.5776 1.4894	1.4695	1.4777	1.5397	Ave		1.5332			0.1000	4.5		20.0			
Bromobenzene	+++++ 0.9122	0.9144 0.7976	0.8476	0.8332	0.8493	Ave		0.8590				5.4		20.0			
1,2,3-Trichloropropane	+++++ 0.2227	0.2046 0.2010	0.2144	0.2132	0.2031	Ave		0.2098				4.0		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
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

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 4	LVL 5		B	M1	M2								
1,1,2,2-Tetrachloroethane	+++++ 0.7842	0.7464 0.7197	0.7058	0.7731	0.7311	Ave		0.7434			0.3000	4.1		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2215	0.1164 0.2083	0.1509	0.1759	0.1891	Qua2	-0.070	0.1827	0.0000715						0.9940		0.9900
N-Propylbenzene	+++++ 0.8143	0.7526 0.7137	0.7305	0.7644	0.7770	Ave		0.7588				4.7		20.0			
2-Chlorotoluene	+++++ 0.7737	0.6861 0.6962	0.7687	0.7440	0.7542	Ave		0.7372				5.1		20.0			
4-Ethyltoluene	+++++ 2.9043	2.6650 2.5049	2.7366	2.6771	2.7218	Ave		2.7016				4.8		20.0			
4-Chlorotoluene	+++++ 2.4710	2.4146 2.1975	2.2572	2.3047	2.3141	Ave		2.3265				4.3		20.0			
1,3,5-Trimethylbenzene	+++++ 2.3597	2.1907 2.1196	2.1837	2.2019	2.2429	Ave		2.2164				3.6		20.0			
Butyl Methacrylate	+++++ 0.9419	0.6542 0.8633	0.6517	0.8133	0.8577	Ave		0.7970				14.9		20.0			
tert-Butylbenzene	+++++ 1.1975	1.0235 1.1141	1.1007	1.0844	1.1085	Ave		1.1048				5.1		20.0			
1,2,4-Trimethylbenzene	+++++ 2.5358	2.2883 2.2246	2.3718	2.3620	2.4071	Ave		2.3649				4.5		20.0			
sec-Butylbenzene	+++++ 2.8722	2.5513 2.5926	2.5941	2.6021	2.6709	Ave		2.6472				4.4		20.0			
1,3-Dichlorobenzene	+++++ 1.6316	1.5766 1.4631	1.5568	1.5053	1.5303	Ave		1.5440			0.6000	3.8		20.0			
1,4-Dichlorobenzene	+++++ 1.6987	1.5412 1.5082	1.5960	1.5642	1.5846	Ave		1.5821			0.5000	4.1		20.0			
4-Isopropyltoluene	+++++ 2.6294	2.5083 2.3232	2.4057	2.3721	2.4204	Ave		2.4432				4.5		20.0			
Benzyl chloride	+++++ 0.3716	0.2692 0.3459	0.2336	0.3078	0.3115	Ave		0.3066				16.3		20.0			
Indan	+++++ 2.7855	2.5460 2.4015	2.6436	2.5953	2.7031	Ave		2.6125				5.1		20.0			
1,2-Dichlorobenzene	+++++ 1.6312	1.5357 1.4140	1.5053	1.5483	1.5333	Ave		1.5280			0.4000	4.6		20.0			
p-Diethylbenzene	+++++ 1.4224	1.2736 1.2349	1.2666	1.2573	1.3129	Ave		1.2946				5.2		20.0			
n-Butylbenzene	+++++ 1.3442	1.0138 1.1808	1.1442	1.1660	1.2436	Ave		1.1821				9.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1564	0.1387 0.1443	0.1201	0.1346	0.1400	Ave		0.1390			0.0500	8.6		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 Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

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 4	LVL 5		B	M1	M2								
1,2,4,5-Tetramethylbenzene	+++++ 2.6651	2.2473 2.0647	2.3140	2.4643	2.5104	Ave		2.3776				9.0		20.0			
1,3,5-Trichlorobenzene	+++++ 1.2785	1.1647 1.0205	1.2299	1.1829	1.2449	Ave		1.1869				7.7		20.0			
1,2,4-Trichlorobenzene	+++++ 1.2004	1.0154 0.9589	1.0974	1.1110	1.1414	Ave		1.0874			0.2000	8.0		20.0			
Hexachlorobutadiene	+++++ 0.4155	0.3488 0.3518	0.3744	0.3646	0.3753	Ave		0.3718				6.5		20.0			
Naphthalene	+++++ 2.8042	2.3603 2.2539	2.3606	2.5371	2.5319	Ave		2.4747				7.9		20.0			
1,2,3-Trichlorobenzene	+++++ 1.1258	1.0186 0.9300	0.9891	1.0195	1.0418	Ave		1.0208				6.3		20.0			
Dibromofluoromethane (Surr)	0.2445 0.2758	0.2575 0.2492	0.2623	0.2497	0.2572	Ave		0.2566				4.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2608 0.2842	0.2636 0.2705	0.2643	0.2660	0.2774	Ave		0.2695				3.1		20.0			
Toluene-d8 (Surr)	1.1901 1.2244	1.1575 1.1763	1.1629	1.1678	1.1584	Ave		1.1767				2.0		20.0			
4-Bromofluorobenzene	0.4255 0.5012	0.4446 0.4513	0.4476	0.4569	0.4509	Ave		0.4540				5.1		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
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-575626/14	B38554.D
Level 2	STD1 460-575626/4	B38544.D
Level 3	STD5 460-575626/5	B38545.D
Level 4	STD20 460-575626/6	B38546.D
Level 5	STD50 460-575626/7	B38547.D
Level 6	STD200 460-575626/8	B38548.D
Level 7	STD500 460-575626/9	B38549.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 198699	805 472042	3822	16189	45471	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 638182	2884 1532562	14693	60257	160885	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 847088	4641 2056376	20230	82530	208005	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	QuaF	1376 508728	2422 1233005	11580	47809	125997	0.250 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 645248	3559 1569500	14421	61958	160969	+++++ 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 494731	2827 1125181	11362	49930	122395	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 355380	2157 841160	8491	35744	89478	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 997519	5206 2459115	23673	94301	249108	+++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	+++++ 765721	3551 1879921	17245	68395	182955	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd9	Ave	+++++ 153284	474 383112	3622	12734	33243	+++++ 400	2.00 1000	10.0	40.0	100
Ethanol	TBAd9	Ave	+++++ 89923	295 +++++	1749	9271	22533	+++++ 8000	40.0 +++++	200	800	2000
Ethyl ether	FB	Ave	+++++ 386039	1865 1008849	9473	38366	95182	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 405631	1924 1006888	8735	38030	93088	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 424341	2234 1038156	10971	41458	106061	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd9	Ave	+++++ 80837	1657 172499	8081	16608	42231	+++++ 200	4.00 400	20.0	40.0	100

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	+++++ 482756	2180 1212233	11738	46560	118789	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 453272	1586 1110349	10113	42603	108448	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 830087	4659 1589212	17432	67845	152852	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 1065787	5213 2637461	26068	100458	264824	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon disulfide	FB	Ave	+++++ 1789859	9683 5119971	41293	163873	429985	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 288553	1496 836018	7645	30141	75377	+++++ 2000	10.0 5000	50.0	200	500
3-Chloro-1-propene	FB	Ave	+++++ 313186	1373 819109	8361	39316	72411	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	FB	Ave	+++++ 1449085	7717 3675788	33804	140686	353012	+++++ 2000	10.0 5000	50.0	200	500
Methyl acetate	FB	Ave	+++++ 681250	2759 1799924	13475	64459	156103	+++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	+++++ 1166214	5620 2935127	27597	103502	266064	+++++ 200	1.00 500	5.00	20.0	50.0
Methylene Chloride	FB	Ave	+++++ 589058	3376 1493810	14722	58040	144028	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 533072	3171 1335700	12877	54544	122727	+++++ 2000	10.0 5000	50.0	200	500
Acrylonitrile	FB	Lin2	3171 1817607	9069 4790903	46426	185755	445646	2.00 2000	10.0 5000	50.0	200	500
trans-1,2-Dichloroethene	FB	Ave	+++++ 558388	2501 1395364	13309	53953	135902	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl tert-butyl ether	FB	Ave	+++++ 1418944	7371 3599490	36505	143045	352267	+++++ 200	1.00 500	5.00	20.0	50.0
Hexane	FB	Ave	+++++ 322746	1767 807739	6978	29302	75652	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 896914	4366 2300185	21915	84570	217675	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	TBAd9	Ave	+++++ 195197	1003 583360	4562	21270	52570	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	+++++ 478667	1852 1215035	11332	43333	117166	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	+++++ 1494799	8193 3786547	36567	149450	380318	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 632511	2766 1586107	15252	61304	158680	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	+++++ 633104	3068 1608708	15479	61012	153581	+++++ 200	1.00 500	5.00	20.0	50.0
2,2-Dichloropropane	FB	QuaF	+++++ 410303	4785 950454	13996	38890	99006	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 312555	1542 761987	7275	30330	68707	+++++ 1000	5.00 2500	25.0	100	250
Propionitrile	TBAd9	Ave	+++++ 667333	3563 1809401	15732	67009	162187	+++++ 2000	10.0 5000	50.0	200	500
Ethyl acetate	BUT	Ave	+++++ 103028	724 280429	2320	10780	25229	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	QuaF	+++++ 78923	182 209619	1475	7388	18599	+++++ 200	1.00 500	5.00	20.0	50.0
Methacrylonitrile	FB	Ave	+++++ 2079816	10736 5509513	49753	211960	508670	+++++ 2000	10.0 5000	50.0	200	500
Bromochloromethane	FB	Ave	+++++ 327843	1888 831887	8179	32071	79890	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 132283	720 347618	3357	13544	32111	+++++ 400	2.00 1000	10.0	40.0	100
Chloroform	FB	Ave	+++++ 905886	4694 2302104	21672	84134	219765	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 790466	3782 1945602	17595	68736	188293	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 728714	3394 1812607	16833	65576	168526	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 653351	3847 1652187	14827	58263	152469	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 649005	3104 1617083	14639	56449	150772	+++++ 200	1.00 500	5.00	20.0	50.0
Benzene	CBNZ d5	Ave	+++++ 2079702	10624 5259167	49127	194665	501546	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd9	Lin2	+++++ 166448	339 414217	3687	15630	37123	+++++ 5000	25.0 12500	125	500	1250
1,2-Dichloroethane	FB	Ave	+++++ 650924	4124 1707542	16584	64500	156944	+++++ 200	1.00 500	5.00	20.0	50.0
Isooctane	FB	Ave	+++++ 1332804	4904 3294279	28807	114085	304815	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 194400	1068 526050	3781	18299	44203	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 1750833	9056 4337977	40163	169262	419444	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 518935	2186 1330565	12196	42508	115529	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	+++++ 522173	2493 1347036	12012	49152	126631	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd9	Ave	+++++ 171319	780 459580	2793	16475	36622	+++++ 5000	25.0 12500	125	500	1250
Ethyl acrylate	FB	Ave	+++++ 1225760	5335 3098347	27357	113222	282548	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 830398	3427 2086630	18257	71791	191447	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 516070	2172 1309442	12401	49405	124481	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	+++++ 342098	1708 878847	8537	34239	81852	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dioxane	DXE	Ave	+++++ 122486	1359 414042	2520	13446	28399	+++++ 4000	50.0 10000	100	400	1000
Methyl methacrylate	FB	Ave	+++++ 306935	1431 786893	6373	31586	72328	+++++ 400	2.00 1000	10.0	40.0	100
n-Propyl acetate	FB	Ave	+++++ 672733	3218 1726764	14067	63797	148809	+++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	+++++ 682916	3316 1796272	15643	63039	166114	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	+++++ 243526	811 651060	4291	22483	54365	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	+++++ 390779	1884 984881	8382	37860	88994	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	289 256351	1062 640815	5403	25125	57830	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 851614	3719 2093111	18695	77241	201592	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 2372508	11946 6101056	53859	232554	542320	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZ d5	Ave	+++++ 2275441	11531 5579810	54526	216210	536585	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 816493	3007 2013482	17302	74085	181998	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 419257	1975 1047765	10074	40117	100445	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 715307	2917 1802077	13768	67092	162869	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 634870	2903 1544332	14281	59978	150800	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 823264	3720 2020370	17855	77787	195967	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Hexanone	BUT	Ave	+++++ 1786467	6948 4206656	35181	165155	373597	+++++ 1000	5.00 2500	25.0	100	250
Dibromochloromethane	CBNZ d5	Ave	+++++ 606307	2353 1519976	12255	55155	134234	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 576096	2506 1419082	12822	54729	133483	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 145378	550 368970	3011	13969	31844	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 1604611	8160 3855580	38405	152782	383126	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 561238	2561 1443876	12512	48403	128292	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 854332	4009 2052221	19616	79996	197155	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1041650	4915 2526125	23001	95444	247351	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 1018695	4631 2559062	22733	96034	244891	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 1847687	7374 4507104	40259	168482	430286	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 465332	1653 1204554	8934	42065	106267	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 456116	1725 1185528	7824	36650	96666	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	+++++ 1033518	3951 2660161	20223	90536	224949	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 2484782	11787 6175184	56381	232219	597215	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 824892	3974 2001964	18492	74942	193630	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 201397	889 504498	4678	19172	46303	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 709144	3244 1806517	15398	69529	166685	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Qua2	+++++ 200312	506 522752	3293	15824	43118	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 736353	3271 1791525	15938	68749	177150	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 699602	2982 1747435	16771	66919	171953	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 2626204	11582 6287580	59706	240775	620572	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	+++++ 2234419	10494 5515782	49245	207282	527626	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 2133797	9521 5320463	47643	198039	511375	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Ave	+++++ 851711	2843 2166855	14219	73149	195551	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 1082843	4448 2796465	24015	97532	252732	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 2292968	9945 5583819	51745	212441	548814	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 2597162	11088 6507606	56597	234035	608967	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1475404	6852 3672566	33966	135384	348912	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1536040	6698 3785600	34820	140683	361279	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 2377685	10901 5831474	52486	213349	551849	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 335993	1170 868156	5096	27686	71033	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 2518836	11065 6027973	57677	233418	616313	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1475012	6674 3549279	32842	139258	349587	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 1286192	5535 3099646	27633	113079	299348	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 1215511	4406 2963844	24964	104867	283543	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 141392	603 362264	2620	12105	31914	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 2409960	9767 5182497	50484	221639	572375	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1156098	5062 2561553	26834	106389	283838	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 1085495	4413 2406801	23942	99928	260246	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 375738	1516 883162	8168	32793	85579	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 2535683	10258 5657510	51501	228186	577282	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 1018005	4427 2334405	21580	91694	237533	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 575626

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/13/2018 23:23 Calibration End Date: 12/14/2018 09:53 Calibration ID: 72455

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dibromofluoromethane (Surr)	FB	Ave	120520 121817	120326 127263	119663	115462	117842	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	128556 125526	123168 138164	120569	122981	127101	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	503288 462326	432410 487674	446186	458779	449302	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	179934 189271	166081 187086	171754	179494	174902	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38544.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Dec-2018 23:23:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0083531-004
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 16:55:18 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: boykink Date: 13-Dec-2018 23:44:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.776	0.764	0.012	52	805	1.00	0.9205	a
2 Dichlorodifluoromethane	85	0.787	0.787	0.000	94	2884	1.00	0.9406	
3 Chloromethane	50	0.867	0.867	0.000	98	4641	1.00	1.09	
4 Butadiene	54	0.902	0.902	0.000	91	2422	1.00	0.8296	
5 Vinyl chloride	62	0.924	0.924	0.000	96	3559	1.00	1.11	
6 Bromomethane	94	1.062	1.062	0.000	96	2827	1.00	1.14	
7 Chloroethane	64	1.096	1.096	0.000	95	2157	1.00	1.18	
9 Dichlorofluoromethane	67	1.222	1.222	0.000	98	5206	1.00	1.05	
10 Pentane	72	1.256	1.256	0.000	99	474	2.00	1.42	
8 Trichlorofluoromethane	101	1.256	1.256	0.000	76	3551	1.00	0.9792	
11 Ethanol	46	1.382	1.370	0.012	83	295	40.0	29.8	
12 Ethyl ether	59	1.382	1.370	0.012	53	1865	1.00	0.9670	
13 2-Methyl-1,3-butadiene	53	1.393	1.382	0.011	81	1924	1.00	1.00	
14 1,2-Dichloro-1,1,2-trifluo	117	1.405	1.404	0.000	87	2234	1.00	1.04	
15 Acrolein	56	1.450	1.439	0.011	93	1657	4.00	4.04	
16 1,1-Dichloroethene	96	1.507	1.507	0.000	93	2180	1.00	0.9257	
17 1,1,2-Trichloro-1,2,2-trif	101	1.542	1.530	0.012	57	1586	1.00	0.7644	
18 Acetone	43	1.542	1.542	0.000	84	4659	5.00	6.23	
19 Iodomethane	142	1.599	1.599	0.000	96	5213	1.00	0.99	
20 Carbon disulfide	76	1.645	1.633	0.012	99	9683	1.00	1.08	
21 Isopropyl alcohol	45	1.656	1.656	0.000	29	1496	10.0	9.92	
22 3-Chloro-1-propene	76	1.702	1.690	0.012	86	1373	1.00	0.8490	Ma
25 Acetonitrile	41	1.725	1.724	0.001	78	7717	10.0	10.7	
24 Methyl acetate	43	1.747	1.736	0.011	55	2759	2.00	1.76	
23 Cyclopentene	67	1.770	1.770	0.000	89	5620	1.00	1.01	
26 Methylene Chloride	84	1.816	1.804	0.012	84	3376	1.00	1.12	
* 27 TBA-d9 (IS)	65	1.873	1.873	0.000	0	217023	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.942	1.919	0.023	91	3171	10.0	11.8	
31 Acrylonitrile	53	1.965	1.965	0.001	95	9069	10.0	8.76	
30 trans-1,2-Dichloroethene	96	1.987	1.976	0.011	94	2501	1.00	0.9246	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Methyl tert-butyl ether	73	2.010	1.999	0.011	97	7371	1.00	1.02	
32 Hexane	43	2.182	2.182	0.000	95	1767	1.00	1.13	
34 1,1-Dichloroethane	63	2.285	2.273	0.012	97	4366	1.00	0.9879	
35 Vinyl acetate	86	2.342	2.330	0.012	99	1003	2.00	1.98	
36 2-Chloro-1,3-butadiene	88	2.342	2.342	0.000	67	1852	1.00	0.8228	
33 Isopropyl ether	45	2.376	2.365	0.011	88	8193	1.00	1.07	
37 Tert-butyl ethyl ether	87	2.662	2.662	0.000	87	2766	1.00	0.8986	a
* 39 2-Butanone-d5	46	2.719	2.719	0.000	0	228274	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.753	2.742	0.011	94	3068	1.00	0.9821	
38 2,2-Dichloropropane	41	2.742	2.753	-0.011	79	4785	1.00	2.00	M
41 2-Butanone (MEK)	72	2.765	2.765	0.000	97	1542	5.00	5.05	
44 Propionitrile	54	2.833	2.810	0.023	93	3563	10.0	10.7	
42 Ethyl acetate	70	2.856	2.845	0.011	89	724	2.00	2.58	
43 Methyl acrylate	85	2.890	2.867	0.023	79	182	1.00	0.4226	Ma
46 Chlorobromomethane	128	2.959	2.947	0.012	52	1888	1.00	1.13	
47 Methacrylonitrile	67	2.948	2.947	0.001	89	10736	10.0	10.2	
45 Tetrahydrofuran	72	3.005	2.993	0.012	58	720	2.00	2.08	
48 Chloroform	83	3.050	3.039	0.011	97	4694	1.00	1.05	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.187	0.012	98	120326	50.0	50.2	
50 1,1,1-Trichloroethane	97	3.210	3.199	0.011	55	3782	1.00	1.01	
49 Cyclohexane	84	3.256	3.256	0.000	87	3394	1.00	0.9809	
53 1,1-Dichloropropene	75	3.359	3.348	0.011	95	3847	1.00	1.19	
52 Carbon tetrachloride	117	3.359	3.359	0.000	71	3104	1.00	1.01	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.508	3.496	0.012	59	123168	50.0	48.9	
55 Benzene	78	3.553	3.553	0.000	91	10624	1.00	1.08	
56 Isobutyl alcohol	74	3.553	3.553	0.000	29	339	25.0	24.7	a
60 1,2-Dichloroethane	62	3.576	3.576	0.000	95	4124	1.00	1.20	
54 Isooctane	57	3.690	3.679	0.011	94	4904	1.00	0.8206	
61 Isopropyl acetate	61	3.736	3.736	0.000	87	1068	1.00	1.13	
59 Tert-amyl methyl ether	73	3.736	3.736	0.000	81	9056	1.00	1.05	
* 63 Fluorobenzene	96	3.862	3.862	0.000	99	467196	50.0	50.0	
62 n-Heptane	43	3.908	3.908	0.000	79	2186	1.00	0.9130	a
64 Trichloroethene	95	4.285	4.285	0.000	91	2493	1.00	0.9812	
65 n-Butanol	43	4.365	4.365	0.000	73	780	25.0	25.4	M
66 Methylcyclohexane	83	4.513	4.513	0.000	80	3427	1.00	0.8977	
67 Ethyl acrylate	55	4.513	4.513	0.000	93	5335	1.00	0.9259	
69 1,2-Dichloropropane	63	4.548	4.548	0.000	82	2172	1.00	0.8763	
72 Dibromomethane	93	4.685	4.685	0.000	50	1708	1.00	1.00	
* 70 1,4-Dioxane-d8	96	4.708	4.708	0.000	96	24146	1000.0	1000.0	
73 1,4-Dioxane	88	4.776	4.765	0.011	83	1359	50.0	45.9	
71 Methyl methacrylate	100	4.799	4.799	0.000	88	1431	2.00	1.94	
74 n-Propyl acetate	43	4.925	4.925	0.000	88	3218	1.00	1.01	
75 Dichlorobromomethane	83	4.936	4.936	0.000	96	3316	1.00	1.00	
76 2-Nitropropane	41	5.256	5.256	0.000	89	811	2.00	1.52	
77 2-Chloroethyl vinyl ether	63	5.428	5.428	0.000	87	1884	1.00	1.01	
78 Epichlorohydrin	62	5.451	5.451	0.000	97	1062	20.0	17.8	
79 cis-1,3-Dichloropropene	75	5.565	5.565	0.000	90	3719	1.00	0.9744	
80 4-Methyl-2-pentanone (MIBK	43	5.862	5.862	0.000	94	11946	5.00	5.07	
$ 81 Toluene-d8 (Surr)	98	5.931	5.931	0.000	99	432410	50.0	49.2	
82 Toluene	91	6.022	6.022	0.000	91	11531	1.00	1.08	
83 trans-1,3-Dichloropropene	75	6.445	6.445	0.000	95	3007	1.00	0.8562	
86 1,1,2-Trichloroethane	83	6.708	6.708	0.000	86	1975	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Ethyl methacrylate	69	6.708	6.708	0.000	83	2917	1.00	0.9354	
85 Tetrachloroethene	166	6.868	6.868	0.000	90	2903	1.00	1.00	
87 1,3-Dichloropropane	76	6.959	6.959	0.000	91	3720	1.00	1.00	
88 2-Hexanone	43	7.234	7.222	0.012	93	6948	5.00	4.34	
89 Chlorodibromomethane	129	7.314	7.314	0.000	93	2353	1.00	0.9000	
91 Ethylene Dibromide	107	7.428	7.428	0.000	98	2506	1.00	0.9649	
90 n-Butyl acetate	73	7.554	7.542	0.012	92	550	1.00	0.8689	
* 92 Chlorobenzene-d5	117	8.297	8.297	0.000	84	373584	50.0	50.0	
93 Chlorobenzene	112	8.342	8.342	0.000	96	8160	1.00	1.08	
95 1,1,1,2-Tetrachloroethane	131	8.548	8.559	-0.011	91	2561	1.00	1.01	
94 Ethylbenzene	106	8.628	8.628	0.000	98	4009	1.00	1.03	
96 m-Xylene & p-Xylene	106	8.868	8.868	0.000	0	4915	1.00	1.04	
97 o-Xylene	106	9.542	9.542	0.000	95	4631	1.00	0.99	
99 Styrene	104	9.588	9.588	0.000	95	7374	1.00	0.9071	
98 n-Butyl acrylate	73	9.737	9.737	0.000	94	1653	1.00	0.8326	
100 Bromoform	173	9.817	9.817	0.000	94	1725	1.00	0.9203	
101 Amyl acetate (mixed isomer	43	10.183	10.171	0.011	89	3951	1.00	0.9043	
102 Isopropylbenzene	105	10.228	10.228	0.000	94	11787	1.00	1.03	
$ 103 4-Bromofluorobenzene	174	10.423	10.422	0.001	97	166081	50.0	49.0	
104 Bromobenzene	156	10.594	10.594	0.000	84	3974	1.00	1.06	
107 1,2,3-Trichloropropane	110	10.788	10.788	0.000	94	889	1.00	0.9749	
105 1,1,2,2-Tetrachloroethane	83	10.800	10.800	0.000	96	3244	1.00	1.00	
108 trans-1,4-Dichloro-2-buten	53	10.903	10.891	0.012	1	506	1.00	1.02	
106 N-Propylbenzene	120	10.914	10.925	-0.011	99	3271	1.00	0.99	
109 2-Chlorotoluene	126	10.971	10.971	0.000	93	2982	1.00	0.9308	
110 4-Ethyltoluene	105	11.120	11.120	0.000	96	11582	1.00	0.9864	
112 4-Chlorotoluene	91	11.165	11.165	0.000	95	10494	1.00	1.04	
111 1,3,5-Trimethylbenzene	105	11.245	11.245	0.000	93	9521	1.00	0.9884	
113 Butyl Methacrylate	87	11.577	11.577	0.000	84	2843	1.00	0.8208	
114 tert-Butylbenzene	91	11.748	11.748	0.000	96	4448	1.00	0.9264	
115 1,2,4-Trimethylbenzene	105	11.840	11.840	0.000	96	9945	1.00	0.9676	
116 sec-Butylbenzene	105	12.148	12.148	0.000	98	11088	1.00	0.9638	
117 1,3-Dichlorobenzene	146	12.228	12.228	0.000	97	6852	1.00	1.02	
* 119 1,4-Dichlorobenzene-d4	152	12.377	12.377	0.000	94	217301	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.423	12.423	0.000	89	6698	1.00	0.9741	
118 4-Isopropyltoluene	119	12.491	12.491	0.000	97	10901	1.00	1.03	
121 1,2,3-Trimethylbenzene	105	12.594	12.594	0.000	98	10668	NC	NC	
122 Benzyl chloride	126	12.720	12.720	0.000	97	1170	1.00	0.8781	
123 2,3-Dihydroindene	117	12.846	12.846	0.000	96	11065	1.00	0.9745	
126 1,2-Dichlorobenzene	146	12.971	12.971	0.000	95	6674	1.00	1.01	
124 p-Diethylbenzene	105	13.051	13.051	0.000	86	5535	1.00	0.9838	
125 n-Butylbenzene	92	13.074	13.074	0.000	96	4406	1.00	0.8576	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	1	603	1.00	1.00	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	97	9767	1.00	0.9452	
129 1,3,5-Trichlorobenzene	180	13.851	13.851	0.000	95	5062	1.00	0.9813	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	93	4413	1.00	0.9338	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	90	1516	1.00	0.9383	
132 Naphthalene	128	14.366	14.366	0.000	99	10258	1.00	0.9538	
133 1,2,3-Trichlorobenzene	180	14.514	14.514	0.000	95	4427	1.00	1.00	
S 134 1,2-Dichloroethene, Total	100				0		2.00	1.91	
S 135 Xylenes, Total	100				0		2.00	2.03	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00091	Amount Added:	10.00	Units: uL	
ACROLEIN W_00084	Amount Added:	4.00	Units: uL	
GASES Li_00291	Amount Added:	10.00	Units: uL	
14DIOXINTER_00094	Amount Added:	30.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 16-Dec-2018 16:55:20 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38544.D

Injection Date: 13-Dec-2018 23:23:30 Instrument ID: CVOAMS2 Operator ID:

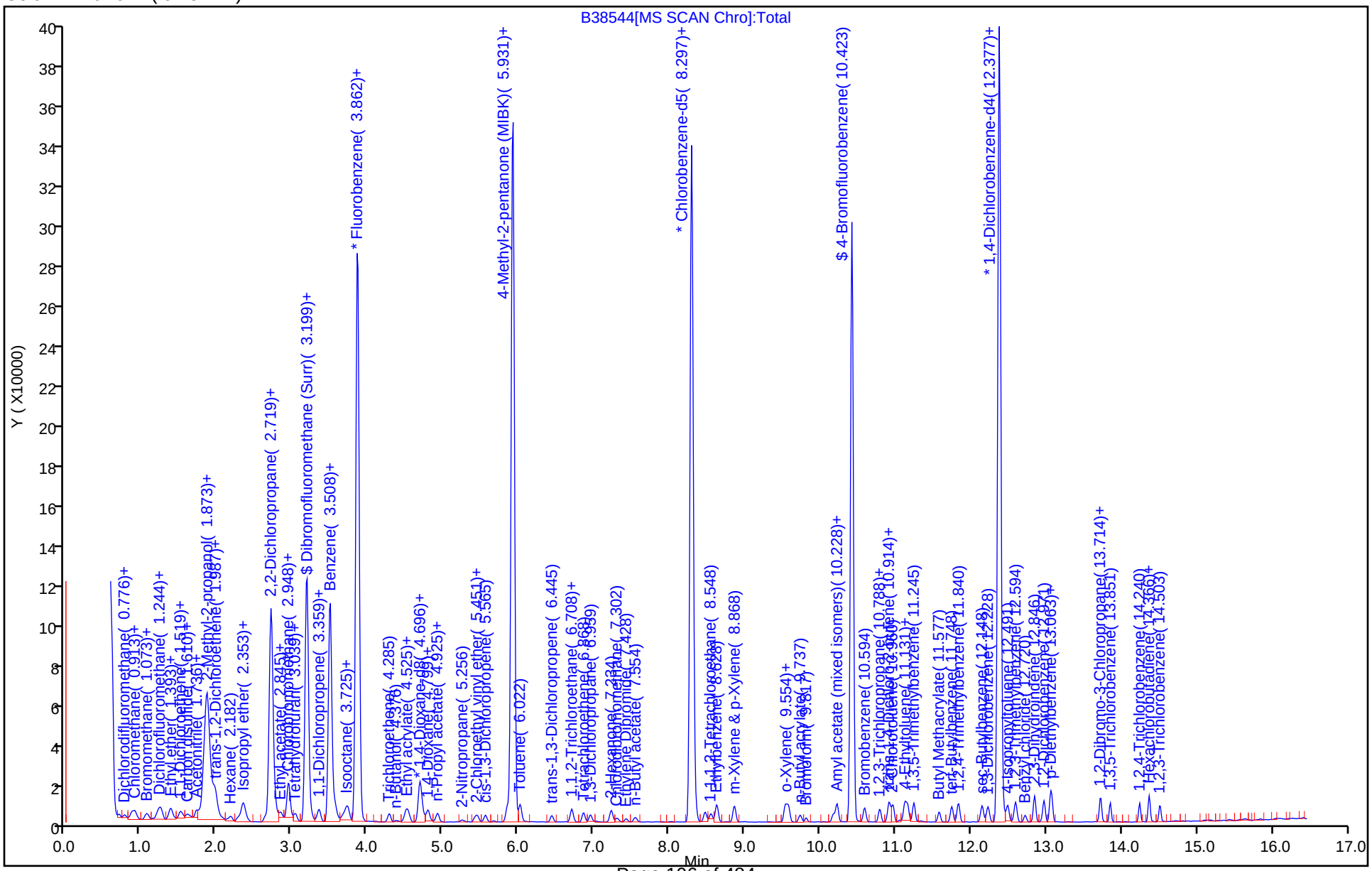
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38545.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Dec-2018 23:48:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0083531-005
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 16:55:28 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: moroneyc Date: 14-Dec-2018 09:19:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.765	0.764	0.001	88	3822	5.00	4.48	
2 Dichlorodifluoromethane	85	0.799	0.787	0.012	97	14693	5.00	4.91	
3 Chloromethane	50	0.879	0.867	0.012	97	20230	5.00	4.89	
4 Butadiene	54	0.902	0.902	0.000	94	11580	5.00	4.07	
5 Vinyl chloride	62	0.936	0.924	0.012	97	14421	5.00	4.61	
6 Bromomethane	94	1.073	1.062	0.011	98	11362	5.00	4.70	
7 Chloroethane	64	1.096	1.096	0.000	98	8491	5.00	4.77	
9 Dichlorofluoromethane	67	1.222	1.222	0.000	98	23673	5.00	4.90	
8 Trichlorofluoromethane	101	1.256	1.256	0.000	98	17245	5.00	4.87	
10 Pentane	72	1.256	1.256	0.000	93	3622	10.0	11.5	
12 Ethyl ether	59	1.370	1.370	0.000	87	9473	5.00	5.03	
11 Ethanol	46	1.370	1.370	0.000	78	1749	200.0	186.8	M
13 2-Methyl-1,3-butadiene	53	1.393	1.382	0.011	83	8735	5.00	4.66	
14 1,2-Dichloro-1,1,2-trifluo	117	1.405	1.404	0.001	88	10971	5.00	5.23	
15 Acrolein	56	1.450	1.439	0.011	93	8081	20.0	20.8	
16 1,1-Dichloroethene	96	1.519	1.507	0.012	98	11738	5.00	5.10	
17 1,1,2-Trichloro-1,2,2-trif	101	1.542	1.530	0.012	74	10113	5.00	4.99	
18 Acetone	43	1.542	1.542	0.000	87	17432	25.0	25.4	
19 Iodomethane	142	1.599	1.599	0.000	96	26068	5.00	5.09	
20 Carbon disulfide	76	1.633	1.633	0.000	99	41293	5.00	4.70	
21 Isopropyl alcohol	45	1.656	1.656	0.000	95	7645	50.0	53.5	
22 3-Chloro-1-propene	76	1.725	1.690	0.035	89	8361	5.00	5.29	M
25 Acetonitrile	41	1.725	1.724	0.001	84	33804	50.0	47.9	
24 Methyl acetate	43	1.748	1.736	0.012	98	13475	10.0	8.78	
23 Cyclopentene	67	1.770	1.770	0.000	90	27597	5.00	5.07	
26 Methylene Chloride	84	1.816	1.804	0.012	89	14722	5.00	5.00	
* 27 TBA-d9 (IS)	65	1.873	1.873	0.000	0	205537	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.930	1.919	0.011	44	12877	50.0	50.7	
31 Acrylonitrile	53	1.965	1.965	0.001	95	46426	50.0	51.4	
30 trans-1,2-Dichloroethene	96	1.988	1.976	0.012	93	13309	5.00	5.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Methyl tert-butyl ether	73	2.010	1.999	0.011	96	36505	5.00	5.17	
32 Hexane	43	2.182	2.182	0.000	90	6978	5.00	4.56	
34 1,1-Dichloroethane	63	2.285	2.273	0.012	98	21915	5.00	5.08	
35 Vinyl acetate	86	2.342	2.330	0.012	100	4562	10.0	9.49	
36 2-Chloro-1,3-butadiene	88	2.353	2.342	0.011	88	11332	5.00	5.16	
33 Isopropyl ether	45	2.376	2.365	0.011	84	36567	5.00	4.90	
37 Tert-butyl ethyl ether	87	2.673	2.662	0.011	80	15252	5.00	5.07	
* 39 2-Butanone-d5	46	2.719	2.719	0.000	0	209358	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.753	2.742	0.011	98	15479	5.00	5.07	
38 2,2-Dichloropropane	41	2.753	2.753	0.000	67	13996	5.00	6.00	M
41 2-Butanone (MEK)	72	2.776	2.765	0.011	96	7275	25.0	26.0	
44 Propionitrile	54	2.822	2.810	0.012	94	15732	50.0	49.8	
42 Ethyl acetate	70	2.845	2.845	0.000	99	2320	10.0	9.02	
43 Methyl acrylate	85	2.868	2.867	0.001	97	1475	5.00	3.51	
47 Methacrylonitrile	67	2.948	2.947	0.001	91	49753	50.0	48.5	
46 Chlorobromomethane	128	2.948	2.947	0.001	69	8179	5.00	4.99	
45 Tetrahydrofuran	72	3.005	2.993	0.012	87	3357	10.0	10.6	
48 Chloroform	83	3.051	3.039	0.012	99	21672	5.00	4.96	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.187	0.012	98	119663	50.0	51.1	
50 1,1,1-Trichloroethane	97	3.211	3.199	0.012	96	17595	5.00	4.82	
49 Cyclohexane	84	3.256	3.256	0.000	88	16833	5.00	4.98	
53 1,1-Dichloropropene	75	3.359	3.348	0.011	95	14827	5.00	4.69	
52 Carbon tetrachloride	117	3.359	3.359	0.000	95	14639	5.00	4.88	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.508	3.496	0.012	59	120569	50.0	49.0	
56 Isobutyl alcohol	74	3.553	3.553	0.000	83	3687	125.0	136.3	
55 Benzene	78	3.553	3.553	0.000	94	49127	5.00	4.87	
60 1,2-Dichloroethane	62	3.576	3.576	0.000	97	16584	5.00	4.96	
54 Isooctane	57	3.691	3.679	0.012	94	28807	5.00	4.94	
59 Tert-amyl methyl ether	73	3.736	3.736	0.000	82	40163	5.00	4.78	
61 Isopropyl acetate	61	3.736	3.736	0.000	88	3781	5.00	4.11	
* 63 Fluorobenzene	96	3.862	3.862	0.000	99	456246	50.0	50.0	
62 n-Heptane	43	3.908	3.908	0.000	90	12196	5.00	5.22	a
64 Trichloroethene	95	4.285	4.285	0.000	97	12012	5.00	4.84	
65 n-Butanol	43	4.376	4.365	0.011	87	2793	125.0	96.1	
67 Ethyl acrylate	55	4.514	4.513	0.001	96	27357	5.00	4.86	
66 Methylcyclohexane	83	4.514	4.513	0.001	80	18257	5.00	4.90	
69 1,2-Dichloropropane	63	4.548	4.548	0.000	92	12401	5.00	5.12	
72 Dibromomethane	93	4.685	4.685	0.000	90	8537	5.00	5.11	
* 70 1,4-Dioxane-d8	96	4.708	4.708	0.000	97	21268	1000.0	1000.0	
73 1,4-Dioxane	88	4.776	4.765	0.011	76	2520	100.0	96.6	
71 Methyl methacrylate	100	4.811	4.799	0.012	90	6373	10.0	8.83	
74 n-Propyl acetate	43	4.925	4.925	0.000	94	14067	5.00	4.53	
75 Dichlorobromomethane	83	4.936	4.936	0.000	98	15643	5.00	4.81	
76 2-Nitropropane	41	5.256	5.256	0.000	94	4291	10.0	8.22	
77 2-Chloroethyl vinyl ether	63	5.428	5.428	0.000	92	8382	5.00	4.60	
78 Epichlorohydrin	62	5.451	5.451	0.000	99	5403	100.0	98.9	
79 cis-1,3-Dichloropropene	75	5.565	5.565	0.000	90	18695	5.00	4.77	
80 4-Methyl-2-pentanone (MIBK	43	5.862	5.862	0.000	94	53859	25.0	24.9	
$ 81 Toluene-d8 (Surr)	98	5.931	5.931	0.000	99	446186	50.0	49.4	
82 Toluene	91	6.022	6.022	0.000	94	54526	5.00	4.97	
83 trans-1,3-Dichloropropene	75	6.445	6.445	0.000	95	17302	5.00	4.80	
84 Ethyl methacrylate	69	6.708	6.708	0.000	84	13768	5.00	4.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 1,1,2-Trichloroethane	83	6.708	6.708	0.000	95	10074	5.00	5.01	
85 Tetrachloroethene	166	6.868	6.868	0.000	97	14281	5.00	4.80	
87 1,3-Dichloropropane	76	6.959	6.959	0.000	93	17855	5.00	4.66	
88 2-Hexanone	43	7.234	7.222	0.012	94	35181	25.0	24.0	
89 Chlorodibromomethane	129	7.314	7.314	0.000	97	12255	5.00	4.56	
91 Ethylene Dibromide	107	7.428	7.428	0.000	96	12822	5.00	4.81	
90 n-Butyl acetate	73	7.554	7.542	0.012	98	3011	5.00	4.63	
* 92 Chlorobenzene-d5	117	8.297	8.297	0.000	85	383680	50.0	50.0	
93 Chlorobenzene	112	8.342	8.342	0.000	97	38405	5.00	4.97	
95 1,1,1,2-Tetrachloroethane	131	8.560	8.559	0.001	94	12512	5.00	4.83	
94 Ethylbenzene	106	8.628	8.628	0.000	98	19616	5.00	4.91	
96 m-Xylene & p-Xylene	106	8.868	8.868	0.000	0	23001	5.00	4.73	
97 o-Xylene	106	9.543	9.542	0.001	94	22733	5.00	4.74	
99 Styrene	104	9.588	9.588	0.000	98	40259	5.00	4.82	
98 n-Butyl acrylate	73	9.737	9.737	0.000	100	8934	5.00	4.38	
100 Bromoform	173	9.817	9.817	0.000	96	7824	5.00	4.06	
101 Amyl acetate (mixed isomer	43	10.183	10.171	0.012	90	20223	5.00	4.61	
102 Isopropylbenzene	105	10.228	10.228	0.000	95	56381	5.00	4.79	
$ 103 4-Bromofluorobenzene	174	10.423	10.422	0.001	97	171754	50.0	49.3	
104 Bromobenzene	156	10.594	10.594	0.000	93	18492	5.00	4.93	
107 1,2,3-Trichloropropane	110	10.788	10.788	0.000	96	4678	5.00	5.11	
105 1,1,2,2-Tetrachloroethane	83	10.800	10.800	0.000	97	15398	5.00	4.75	
108 trans-1,4-Dichloro-2-buten	53	10.891	10.891	0.000	85	3293	5.00	4.51	
106 N-Propylbenzene	120	10.926	10.925	0.001	99	15938	5.00	4.81	
109 2-Chlorotoluene	126	10.971	10.971	0.000	93	16771	5.00	5.21	
110 4-Ethyltoluene	105	11.120	11.120	0.000	99	59706	5.00	5.06	
112 4-Chlorotoluene	91	11.166	11.165	0.001	95	49245	5.00	4.85	
111 1,3,5-Trimethylbenzene	105	11.246	11.245	0.001	94	47643	5.00	4.93	
113 Butyl Methacrylate	87	11.577	11.577	0.000	89	14219	5.00	4.09	
114 tert-Butylbenzene	91	11.749	11.748	0.001	95	24015	5.00	4.98	
115 1,2,4-Trimethylbenzene	105	11.840	11.840	0.000	96	51745	5.00	5.01	
116 sec-Butylbenzene	105	12.149	12.148	0.001	99	56597	5.00	4.90	
117 1,3-Dichlorobenzene	146	12.229	12.228	0.001	98	33966	5.00	5.04	
* 119 1,4-Dichlorobenzene-d4	152	12.377	12.377	0.000	93	218172	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.423	12.423	0.000	96	34820	5.00	5.04	
118 4-Isopropyltoluene	119	12.491	12.491	0.000	98	52486	5.00	4.92	
121 1,2,3-Trimethylbenzene	105	12.594	12.594	0.000	97	52131	NC	NC	
122 Benzyl chloride	126	12.720	12.720	0.000	99	5096	5.00	3.81	
123 2,3-Dihydroindene	117	12.846	12.846	0.000	94	57677	5.00	5.06	
126 1,2-Dichlorobenzene	146	12.972	12.971	0.001	98	32842	5.00	4.93	
124 p-Diethylbenzene	105	13.052	13.051	0.001	93	27633	5.00	4.89	
125 n-Butylbenzene	92	13.074	13.074	0.000	97	24964	5.00	4.84	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	92	2620	5.00	4.32	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	50484	5.00	4.87	
129 1,3,5-Trichlorobenzene	180	13.852	13.851	0.001	97	26834	5.00	5.18	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	92	23942	5.00	5.05	
132 Naphthalene	128	14.366	14.366	0.000	99	51501	5.00	4.77	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	97	8168	5.00	5.04	
133 1,2,3-Trichlorobenzene	180	14.515	14.514	0.000	96	21580	5.00	4.84	
S 134 1,2-Dichloroethene, Total	100				0		10.0	10.1	
S 135 Xylenes, Total	100				0		10.0	9.48	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00091	Amount Added:	10.00	Units: uL	
ACROLEIN W_00084	Amount Added:	4.00	Units: uL	
GASES Li_00291	Amount Added:	10.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 16-Dec-2018 16:55:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38545.D

Injection Date: 13-Dec-2018 23:48:30 Instrument ID: CVOAMS2 Operator ID:

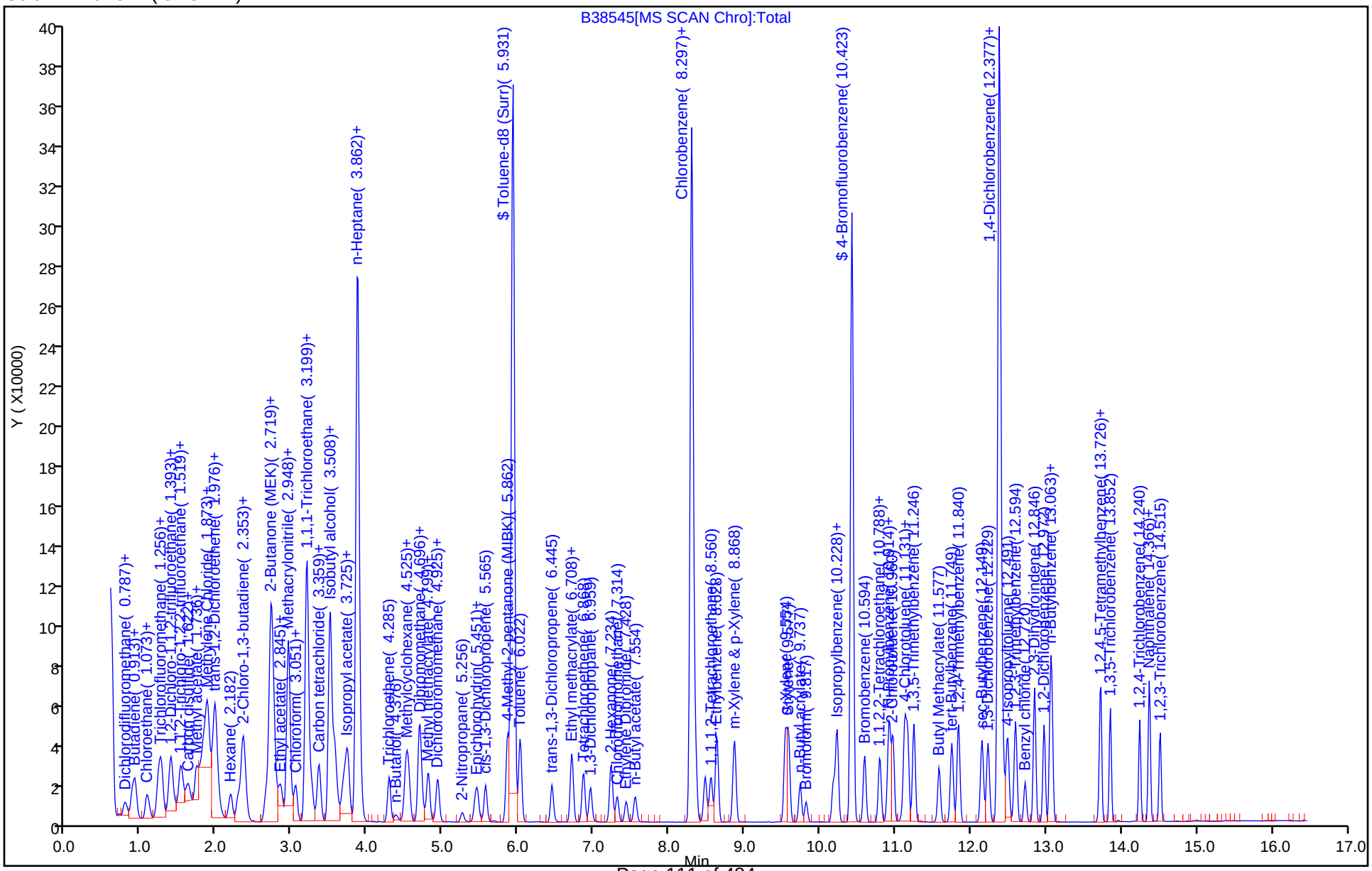
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38546.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 14-Dec-2018 00:13:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0083531-006
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 16:55:38 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: moroneyc Date: 14-Dec-2018 09:09:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.764	0.764	0.000	89	16189	20.0	18.7	
2 Dichlorodifluoromethane	85	0.787	0.787	0.000	97	60257	20.0	19.9	
3 Chloromethane	50	0.867	0.867	0.000	100	82530	20.0	19.7	
4 Butadiene	54	0.902	0.902	0.000	93	47809	20.0	16.7	
5 Vinyl chloride	62	0.924	0.924	0.000	97	61958	20.0	19.6	
6 Bromomethane	94	1.062	1.062	0.000	98	49930	20.0	20.4	
7 Chloroethane	64	1.096	1.096	0.000	99	35744	20.0	19.8	
9 Dichlorofluoromethane	67	1.222	1.222	0.000	99	94301	20.0	19.3	
10 Pentane	72	1.256	1.256	0.000	96	12734	40.0	35.6	
8 Trichlorofluoromethane	101	1.256	1.256	0.000	96	68395	20.0	19.1	
11 Ethanol	46	1.370	1.370	0.000	79	9271	800.0	871.0	M
12 Ethyl ether	59	1.370	1.370	0.000	93	38366	20.0	20.1	
13 2-Methyl-1,3-butadiene	53	1.382	1.382	0.000	93	38030	20.0	20.0	
14 1,2-Dichloro-1,1,2-trifluo	117	1.404	1.404	0.000	91	41458	20.0	19.5	
15 Acrolein	56	1.439	1.439	0.000	92	16608	40.0	37.6	
16 1,1-Dichloroethene	96	1.507	1.507	0.000	96	46560	20.0	20.0	
17 1,1,2-Trichloro-1,2,2-trif	101	1.530	1.530	0.000	82	42603	20.0	20.7	
18 Acetone	43	1.542	1.542	0.000	89	67845	100.0	89.6	
19 Iodomethane	142	1.599	1.599	0.000	96	100458	20.0	19.3	
20 Carbon disulfide	76	1.633	1.633	0.000	99	163873	20.0	18.4	
21 Isopropyl alcohol	45	1.656	1.656	0.000	96	30141	200.0	185.7	
22 3-Chloro-1-propene	76	1.690	1.690	0.000	85	39316	20.0	24.6	Ma
25 Acetonitrile	41	1.724	1.724	0.000	84	140686	200.0	196.8	
24 Methyl acetate	43	1.736	1.736	0.000	98	64459	40.0	41.5	
23 Cyclopentene	67	1.770	1.770	0.000	93	103502	20.0	18.8	
26 Methylene Chloride	84	1.804	1.804	0.000	86	58040	20.0	19.4	
* 27 TBA-d9 (IS)	65	1.873	1.873	0.000	0	233607	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.919	1.919	0.000	91	54544	200.0	189.0	
31 Acrylonitrile	53	1.965	1.965	0.000	96	185755	200.0	206.7	
30 trans-1,2-Dichloroethene	96	1.976	1.976	0.000	91	53953	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Methyl tert-butyl ether	73	1.999	1.999	0.000	96	143045	20.0	20.0	
32 Hexane	43	2.182	2.182	0.000	93	29302	20.0	18.9	
34 1,1-Dichloroethane	63	2.273	2.273	0.000	99	84570	20.0	19.3	
35 Vinyl acetate	86	2.330	2.330	0.000	100	21270	40.0	38.9	
36 2-Chloro-1,3-butadiene	88	2.342	2.342	0.000	91	43333	20.0	19.5	
33 Isopropyl ether	45	2.365	2.365	0.000	85	149450	20.0	19.8	
37 Tert-butyl ethyl ether	87	2.662	2.662	0.000	85	61304	20.0	20.1	
* 39 2-Butanone-d5	46	2.719	2.719	0.000	0	231126	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.742	2.742	0.000	99	61012	20.0	19.7	
38 2,2-Dichloropropane	41	2.753	2.753	0.000	85	38890	20.0	16.5	
41 2-Butanone (MEK)	72	2.765	2.765	0.000	97	30330	100.0	98.1	
44 Propionitrile	54	2.810	2.810	0.000	94	67009	200.0	186.6	
42 Ethyl acetate	70	2.845	2.845	0.000	98	10780	40.0	38.0	
43 Methyl acrylate	85	2.867	2.867	0.000	97	7388	20.0	17.4	
46 Chlorobromomethane	128	2.947	2.947	0.000	50	32071	20.0	19.3	
47 Methacrylonitrile	67	2.947	2.947	0.000	90	211960	200.0	203.7	
45 Tetrahydrofuran	72	2.993	2.993	0.000	93	13544	40.0	38.7	
48 Chloroform	83	3.039	3.039	0.000	98	84134	20.0	19.0	
$ 51 Dibromofluoromethane (Surr	113	3.187	3.187	0.000	97	115462	50.0	48.7	
50 1,1,1-Trichloroethane	97	3.199	3.199	0.000	97	68736	20.0	18.6	
49 Cyclohexane	84	3.256	3.256	0.000	88	65576	20.0	19.2	
53 1,1-Dichloropropene	75	3.348	3.348	0.000	97	58263	20.0	18.2	
52 Carbon tetrachloride	117	3.359	3.359	0.000	96	56449	20.0	18.6	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.496	3.496	0.000	61	122981	50.0	49.3	
55 Benzene	78	3.553	3.553	0.000	95	194665	20.0	18.9	
56 Isobutyl alcohol	74	3.553	3.553	0.000	89	15630	500.0	470.0	
60 1,2-Dichloroethane	62	3.576	3.576	0.000	97	64500	20.0	19.0	
54 Isooctane	57	3.679	3.679	0.000	94	114085	20.0	19.3	
61 Isopropyl acetate	61	3.736	3.736	0.000	93	18299	20.0	19.6	
59 Tert-amyl methyl ether	73	3.736	3.736	0.000	81	169262	20.0	19.9	
* 63 Fluorobenzene	96	3.862	3.862	0.000	99	462347	50.0	50.0	
62 n-Heptane	43	3.908	3.908	0.000	90	42508	20.0	17.9	
64 Trichloroethene	95	4.285	4.285	0.000	96	49152	20.0	19.5	
65 n-Butanol	43	4.365	4.365	0.000	87	16475	500.0	498.8	
66 Methylcyclohexane	83	4.513	4.513	0.000	87	71791	20.0	19.0	
67 Ethyl acrylate	55	4.513	4.513	0.000	96	113222	20.0	19.9	
69 1,2-Dichloropropane	63	4.548	4.548	0.000	91	49405	20.0	20.1	
72 Dibromomethane	93	4.685	4.685	0.000	90	34239	20.0	20.2	
* 70 1,4-Dioxane-d8	96	4.708	4.708	0.000	95	24861	1000.0	1000.0	
73 1,4-Dioxane	88	4.765	4.765	0.000	87	13446	400.0	441.0	
71 Methyl methacrylate	100	4.799	4.799	0.000	89	31586	40.0	43.2	
74 n-Propyl acetate	43	4.925	4.925	0.000	97	63797	20.0	20.3	
75 Dichlorobromomethane	83	4.936	4.936	0.000	99	63039	20.0	19.1	
76 2-Nitropropane	41	5.256	5.256	0.000	97	22483	40.0	42.5	
77 2-Chloroethyl vinyl ether	63	5.428	5.428	0.000	93	37860	20.0	20.5	
78 Epichlorohydrin	62	5.451	5.451	0.000	98	25125	400.0	416.6	
79 cis-1,3-Dichloropropene	75	5.565	5.565	0.000	91	77241	20.0	19.2	
80 4-Methyl-2-pentanone (MIBK	43	5.862	5.862	0.000	96	232554	100.0	97.6	
$ 81 Toluene-d8 (Surr)	98	5.931	5.931	0.000	99	458779	50.0	49.6	
82 Toluene	91	6.022	6.022	0.000	93	216210	20.0	19.3	
83 trans-1,3-Dichloropropene	75	6.445	6.445	0.000	97	74085	20.0	20.1	
86 1,1,2-Trichloroethane	83	6.708	6.708	0.000	83	40117	20.0	19.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Ethyl methacrylate	69	6.708	6.708	0.000	91	67092	20.0	20.5	
85 Tetrachloroethene	166	6.868	6.868	0.000	96	59978	20.0	19.7	
87 1,3-Dichloropropane	76	6.959	6.959	0.000	93	77787	20.0	19.8	
88 2-Hexanone	43	7.222	7.222	0.000	95	165155	100.0	101.9	
89 Chlorodibromomethane	129	7.314	7.314	0.000	98	55155	20.0	20.1	
91 Ethylene Dibromide	107	7.428	7.428	0.000	98	54729	20.0	20.0	
90 n-Butyl acetate	73	7.542	7.542	0.000	98	13969	20.0	21.0	
* 92 Chlorobenzene-d5	117	8.297	8.297	0.000	85	392865	50.0	50.0	
93 Chlorobenzene	112	8.342	8.342	0.000	96	152782	20.0	19.3	
95 1,1,1,2-Tetrachloroethane	131	8.559	8.559	0.000	96	48403	20.0	18.2	
94 Ethylbenzene	106	8.628	8.628	0.000	97	79996	20.0	19.5	
96 m-Xylene & p-Xylene	106	8.868	8.868	0.000	0	95444	20.0	19.2	
97 o-Xylene	106	9.542	9.542	0.000	95	96034	20.0	19.6	
99 Styrene	104	9.588	9.588	0.000	96	168482	20.0	19.7	
98 n-Butyl acrylate	73	9.737	9.737	0.000	97	42065	20.0	20.1	
100 Bromoform	173	9.817	9.817	0.000	97	36650	20.0	18.6	
101 Amyl acetate (mixed isomer	43	10.171	10.171	0.000	92	90536	20.0	20.0	
102 Isopropylbenzene	105	10.228	10.228	0.000	95	232219	20.0	19.3	
$ 103 4-Bromofluorobenzene	174	10.422	10.422	0.000	98	179494	50.0	50.3	
104 Bromobenzene	156	10.594	10.594	0.000	90	74942	20.0	19.4	
107 1,2,3-Trichloropropane	110	10.788	10.788	0.000	98	19172	20.0	20.3	
105 1,1,2,2-Tetrachloroethane	83	10.800	10.800	0.000	98	69529	20.0	20.8	
108 trans-1,4-Dichloro-2-buten	53	10.891	10.891	0.000	91	15824	20.0	19.5	
106 N-Propylbenzene	120	10.925	10.925	0.000	100	68749	20.0	20.1	
109 2-Chlorotoluene	126	10.971	10.971	0.000	96	66919	20.0	20.2	
110 4-Ethyltoluene	105	11.120	11.120	0.000	98	240775	20.0	19.8	
112 4-Chlorotoluene	91	11.165	11.165	0.000	95	207282	20.0	19.8	
111 1,3,5-Trimethylbenzene	105	11.245	11.245	0.000	94	198039	20.0	19.9	
113 Butyl Methacrylate	87	11.577	11.577	0.000	88	73149	20.0	20.4	
114 tert-Butylbenzene	91	11.748	11.748	0.000	95	97532	20.0	19.6	
115 1,2,4-Trimethylbenzene	105	11.840	11.840	0.000	96	212441	20.0	20.0	
116 sec-Butylbenzene	105	12.148	12.148	0.000	99	234035	20.0	19.7	
117 1,3-Dichlorobenzene	146	12.228	12.228	0.000	98	135384	20.0	19.5	
* 119 1,4-Dichlorobenzene-d4	152	12.377	12.377	0.000	93	224851	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.423	12.423	0.000	97	140683	20.0	19.8	
118 4-Isopropyltoluene	119	12.491	12.491	0.000	98	213349	20.0	19.4	
121 1,2,3-Trimethylbenzene	105	12.594	12.594	0.000	97	223417	NC	NC	
122 Benzyl chloride	126	12.720	12.720	0.000	99	27686	20.0	20.1	
123 2,3-Dihydroindene	117	12.846	12.846	0.000	95	233418	20.0	19.9	
126 1,2-Dichlorobenzene	146	12.971	12.971	0.000	99	139258	20.0	20.3	
124 p-Diethylbenzene	105	13.051	13.051	0.000	94	113079	20.0	19.4	
125 n-Butylbenzene	92	13.074	13.074	0.000	97	104867	20.0	19.7	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	91	12105	20.0	19.4	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	221639	20.0	20.7	
129 1,3,5-Trichlorobenzene	180	13.851	13.851	0.000	97	106389	20.0	19.9	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	94	99928	20.0	20.4	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	97	32793	20.0	19.6	
132 Naphthalene	128	14.366	14.366	0.000	100	228186	20.0	20.5	
133 1,2,3-Trichlorobenzene	180	14.514	14.514	0.000	95	91694	20.0	20.0	
S 134 1,2-Dichloroethene, Total	100				0		40.0	39.9	
S 135 Xylenes, Total	100				0		40.0	38.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00091	Amount Added:	20.00	Units: uL	
ACROLEIN W_00084	Amount Added:	4.00	Units: uL	
GASES Li_00291	Amount Added:	20.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 16-Dec-2018 16:55:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38546.D

Injection Date: 14-Dec-2018 00:13:30 Instrument ID: CVOAMS2 Operator ID:

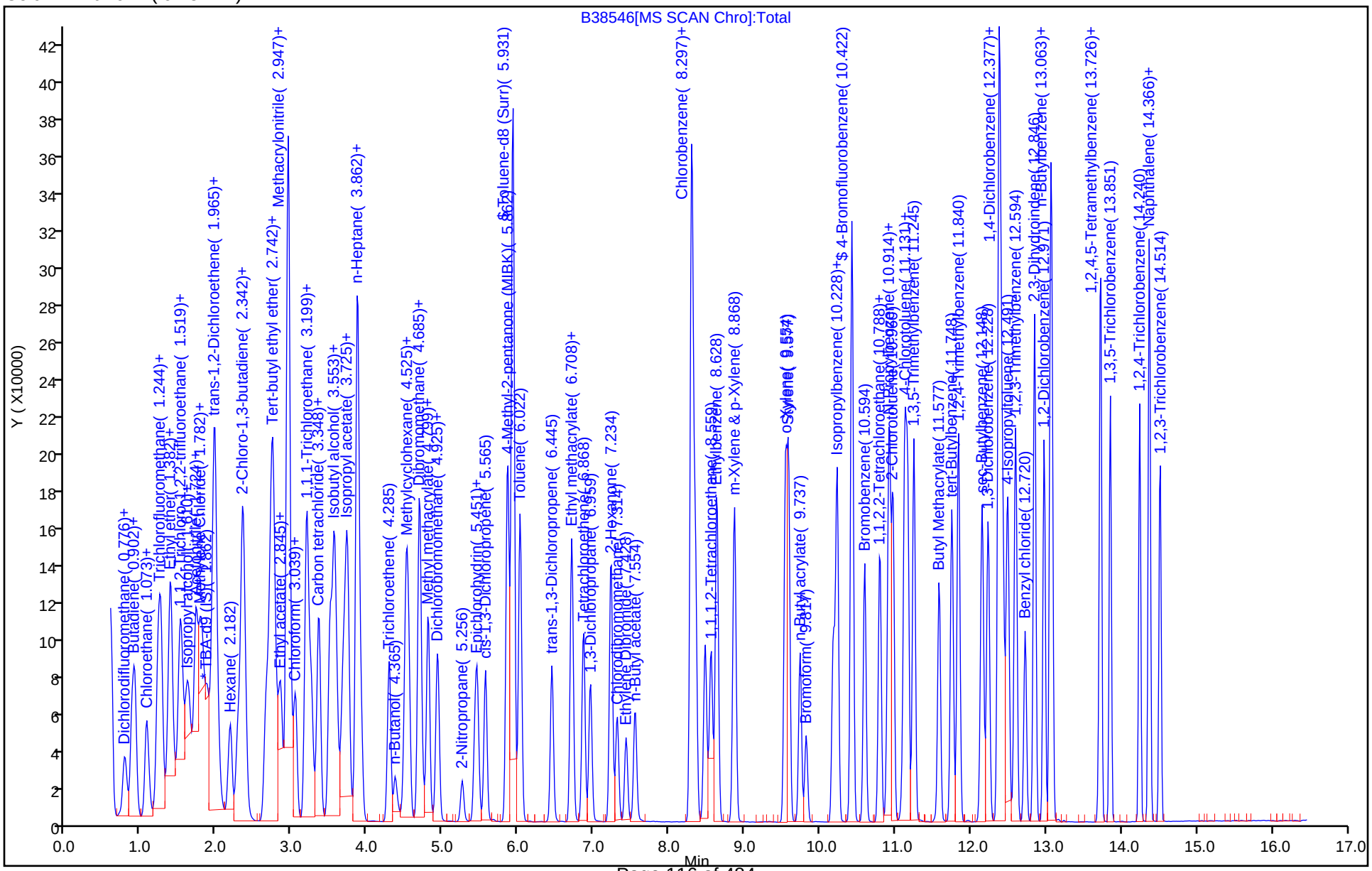
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38547.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Dec-2018 00:38:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0083531-007
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 16:55:50 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: moroneyc Date: 14-Dec-2018 09:13:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.764	0.764	0.000	88	45471	50.0	53.0	
2 Dichlorodifluoromethane	85	0.787	0.787	0.000	97	160885	50.0	53.5	
3 Chloromethane	50	0.867	0.867	0.000	98	208005	50.0	50.0	
4 Butadiene	54	0.902	0.902	0.000	93	125997	50.0	44.9	
5 Vinyl chloride	62	0.924	0.924	0.000	98	160969	50.0	51.3	
6 Bromomethane	94	1.062	1.062	0.000	99	122395	50.0	50.4	
7 Chloroethane	64	1.096	1.096	0.000	100	89478	50.0	50.0	
9 Dichlorofluoromethane	67	1.222	1.222	0.000	99	249108	50.0	51.4	
8 Trichlorofluoromethane	101	1.256	1.256	0.000	95	182955	50.0	51.4	
10 Pentane	72	1.256	1.256	0.000	94	33243	100.0	94.3	
12 Ethyl ether	59	1.370	1.370	0.000	91	95182	50.0	50.3	
11 Ethanol	46	1.359	1.370	-0.011	78	22533	2000.0	2150.9	
13 2-Methyl-1,3-butadiene	53	1.382	1.382	0.000	94	93088	50.0	49.4	
14 1,2-Dichloro-1,1,2-trifluo	117	1.405	1.404	0.001	90	106061	50.0	50.4	
15 Acrolein	56	1.450	1.439	0.011	91	42231	100.0	97.2	
16 1,1-Dichloroethene	96	1.507	1.507	0.000	97	118789	50.0	51.4	
17 1,1,2-Trichloro-1,2,2-trif	101	1.530	1.530	0.000	86	108448	50.0	53.3	
18 Acetone	43	1.542	1.542	0.000	87	152852	250.0	216.4	
19 Iodomethane	142	1.599	1.599	0.000	96	264824	50.0	51.4	
20 Carbon disulfide	76	1.633	1.633	0.000	99	429985	50.0	48.7	
21 Isopropyl alcohol	45	1.645	1.656	-0.011	94	75377	500.0	471.9	
22 3-Chloro-1-propene	76	1.713	1.690	0.023	87	72411	50.0	45.7	a
25 Acetonitrile	41	1.713	1.724	-0.011	83	353012	500.0	498.3	
24 Methyl acetate	43	1.736	1.736	0.000	98	156103	100.0	101.3	
23 Cyclopentene	67	1.770	1.770	0.000	91	266064	50.0	48.6	
26 Methylene Chloride	84	1.805	1.804	0.001	87	144028	50.0	48.7	
* 27 TBA-d9 (IS)	65	1.873	1.873	0.000	0	229917	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.930	1.919	0.011	96	122727	500.0	432.2	
31 Acrylonitrile	53	1.965	1.965	0.001	95	445646	500.0	502.1	
30 trans-1,2-Dichloroethene	96	1.976	1.976	0.000	92	135902	50.0	51.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Methyl tert-butyl ether	73	1.999	1.999	0.000	97	352267	50.0	49.7	
32 Hexane	43	2.182	2.182	0.000	93	75652	50.0	49.2	
34 1,1-Dichloroethane	63	2.273	2.273	0.000	99	217675	50.0	50.2	
35 Vinyl acetate	86	2.330	2.330	0.000	100	52570	100.0	97.8	
36 2-Chloro-1,3-butadiene	88	2.342	2.342	0.000	91	117166	50.0	53.1	
33 Isopropyl ether	45	2.365	2.365	0.000	85	380318	50.0	50.8	
37 Tert-butyl ethyl ether	87	2.662	2.662	0.000	89	158680	50.0	52.6	
* 39 2-Butanone-d5	46	2.719	2.719	0.000	0	215478	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.742	2.742	0.000	98	153581	50.0	50.1	
38 2,2-Dichloropropane	41	2.753	2.753	0.000	89	99006	50.0	43.1	
41 2-Butanone (MEK)	72	2.765	2.765	0.000	96	68707	250.0	238.3	
44 Propionitrile	54	2.810	2.810	0.000	95	162187	500.0	458.9	
42 Ethyl acetate	70	2.845	2.845	0.000	99	25229	100.0	95.3	
43 Methyl acrylate	85	2.868	2.867	0.001	100	18599	50.0	44.5	
47 Methacrylonitrile	67	2.948	2.947	0.001	91	508670	500.0	493.2	
46 Chlorobromomethane	128	2.948	2.947	0.001	51	79890	50.0	48.5	
45 Tetrahydrofuran	72	2.993	2.993	0.000	91	32111	100.0	98.3	
48 Chloroform	83	3.039	3.039	0.000	99	219765	50.0	50.0	
$ 51 Dibromofluoromethane (Surr	113	3.188	3.187	0.001	98	117842	50.0	50.1	
50 1,1,1-Trichloroethane	97	3.199	3.199	0.000	98	188293	50.0	51.3	
49 Cyclohexane	84	3.245	3.256	-0.011	89	168526	50.0	49.7	
53 1,1-Dichloropropene	75	3.348	3.348	0.000	97	152469	50.0	48.0	
52 Carbon tetrachloride	117	3.359	3.359	0.000	98	150772	50.0	50.1	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.496	3.496	0.000	59	127101	50.0	51.5	
56 Isobutyl alcohol	74	3.553	3.553	0.000	92	37123	1250.0	1114.3	
55 Benzene	78	3.553	3.553	0.000	96	501546	50.0	49.2	
60 1,2-Dichloroethane	62	3.576	3.576	0.000	98	156944	50.0	46.7	
54 Isooctane	57	3.690	3.679	0.011	95	304815	50.0	52.0	
59 Tert-amyl methyl ether	73	3.736	3.736	0.000	89	419444	50.0	49.7	
61 Isopropyl acetate	61	3.736	3.736	0.000	91	44203	50.0	47.8	
* 63 Fluorobenzene	96	3.862	3.862	0.000	99	458250	50.0	50.0	
62 n-Heptane	43	3.908	3.908	0.000	92	115529	50.0	49.2	
64 Trichloroethene	95	4.285	4.285	0.000	96	126631	50.0	50.8	
65 n-Butanol	43	4.365	4.365	0.000	86	36622	1250.0	1126.6	
67 Ethyl acrylate	55	4.513	4.513	0.000	97	282548	50.0	50.0	
66 Methylcyclohexane	83	4.513	4.513	0.000	78	191447	50.0	51.1	
69 1,2-Dichloropropane	63	4.548	4.548	0.000	92	124481	50.0	51.2	
72 Dibromomethane	93	4.685	4.685	0.000	89	81852	50.0	48.7	
* 70 1,4-Dioxane-d8	96	4.708	4.708	0.000	50	24030	1000.0	1000.0	
73 1,4-Dioxane	88	4.765	4.765	0.000	93	28399	1000.0	963.5	
71 Methyl methacrylate	100	4.799	4.799	0.000	86	72328	100.0	99.8	
74 n-Propyl acetate	43	4.913	4.925	-0.012	97	148809	50.0	47.7	
75 Dichlorobromomethane	83	4.936	4.936	0.000	99	166114	50.0	50.8	
76 2-Nitropropane	41	5.256	5.256	0.000	98	54365	100.0	103.7	
77 2-Chloroethyl vinyl ether	63	5.428	5.428	0.000	94	88994	50.0	48.6	
78 Epichlorohydrin	62	5.451	5.451	0.000	99	57830	1000.0	1028.6	
79 cis-1,3-Dichloropropene	75	5.565	5.565	0.000	91	201592	50.0	50.9	
80 4-Methyl-2-pentanone (MIBK	43	5.862	5.862	0.000	96	542320	250.0	244.0	
$ 81 Toluene-d8 (Surr)	98	5.931	5.931	0.000	99	449302	50.0	49.2	
82 Toluene	91	6.022	6.022	0.000	93	536585	50.0	48.4	
83 trans-1,3-Dichloropropene	75	6.445	6.445	0.000	97	181998	50.0	49.9	
84 Ethyl methacrylate	69	6.708	6.708	0.000	88	162869	50.0	50.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 1,1,2-Trichloroethane	83	6.708	6.708	0.000	93	100445	50.0	49.4	
85 Tetrachloroethene	166	6.868	6.868	0.000	97	150800	50.0	50.2	
87 1,3-Dichloropropane	76	6.959	6.959	0.000	92	195967	50.0	50.6	
88 2-Hexanone	43	7.222	7.222	0.000	94	373597	250.0	247.2	
89 Chlorodibromomethane	129	7.314	7.314	0.000	98	134234	50.0	49.5	
91 Ethylene Dibromide	107	7.428	7.428	0.000	98	133483	50.0	49.5	
90 n-Butyl acetate	73	7.554	7.542	0.012	99	31844	50.0	48.5	
* 92 Chlorobenzene-d5	117	8.297	8.297	0.000	84	387878	50.0	50.0	
93 Chlorobenzene	112	8.342	8.342	0.000	97	383126	50.0	49.0	
95 1,1,1,2-Tetrachloroethane	131	8.560	8.559	0.001	97	128292	50.0	48.9	
94 Ethylbenzene	106	8.628	8.628	0.000	98	197155	50.0	48.8	
96 m-Xylene & p-Xylene	106	8.868	8.868	0.000	0	247351	50.0	50.3	
97 o-Xylene	106	9.542	9.542	0.000	95	244891	50.0	50.6	
99 Styrene	104	9.588	9.588	0.000	97	430286	50.0	51.0	
98 n-Butyl acrylate	73	9.737	9.737	0.000	98	106267	50.0	51.6	
100 Bromoform	173	9.817	9.817	0.000	99	96666	50.0	49.7	
101 Amyl acetate (mixed isomer	43	10.171	10.171	0.000	91	224949	50.0	49.1	
102 Isopropylbenzene	105	10.228	10.228	0.000	95	597215	50.0	50.2	
$ 103 4-Bromofluorobenzene	174	10.423	10.422	0.001	98	174902	50.0	49.7	
104 Bromobenzene	156	10.594	10.594	0.000	91	193630	50.0	49.4	
107 1,2,3-Trichloropropane	110	10.788	10.788	0.000	98	46303	50.0	48.4	
105 1,1,2,2-Tetrachloroethane	83	10.800	10.800	0.000	98	166685	50.0	49.2	
108 trans-1,4-Dichloro-2-buten	53	10.891	10.891	0.000	92	43118	50.0	51.1	
106 N-Propylbenzene	120	10.925	10.925	0.000	100	177150	50.0	51.2	
109 2-Chlorotoluene	126	10.971	10.971	0.000	96	171953	50.0	51.2	
110 4-Ethyltoluene	105	11.120	11.120	0.000	98	620572	50.0	50.4	
112 4-Chlorotoluene	91	11.165	11.165	0.000	98	527626	50.0	49.7	
111 1,3,5-Trimethylbenzene	105	11.246	11.245	0.001	94	511375	50.0	50.6	
113 Butyl Methacrylate	87	11.577	11.577	0.000	88	195551	50.0	53.8	
114 tert-Butylbenzene	91	11.748	11.748	0.000	96	252732	50.0	50.2	
115 1,2,4-Trimethylbenzene	105	11.840	11.840	0.000	97	548814	50.0	50.9	
116 sec-Butylbenzene	105	12.148	12.148	0.000	99	608967	50.0	50.4	
117 1,3-Dichlorobenzene	146	12.228	12.228	0.000	98	348912	50.0	49.6	
* 119 1,4-Dichlorobenzene-d4	152	12.377	12.377	0.000	93	228000	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.423	12.423	0.000	97	361279	50.0	50.1	
118 4-Isopropyltoluene	119	12.491	12.491	0.000	98	551849	50.0	49.5	
121 1,2,3-Trimethylbenzene	105	12.594	12.594	0.000	97	568859	NC	NC	
122 Benzyl chloride	126	12.720	12.720	0.000	99	71033	50.0	50.8	
123 2,3-Dihydroindene	117	12.846	12.846	0.000	94	616313	50.0	51.7	
126 1,2-Dichlorobenzene	146	12.971	12.971	0.000	98	349587	50.0	50.2	
124 p-Diethylbenzene	105	13.051	13.051	0.000	94	299348	50.0	50.7	
125 n-Butylbenzene	92	13.074	13.074	0.000	97	283543	50.0	52.6	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	92	31914	50.0	50.3	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	572375	50.0	52.8	
129 1,3,5-Trichlorobenzene	180	13.851	13.851	0.000	97	283838	50.0	52.4	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	94	260246	50.0	52.5	
132 Naphthalene	128	14.377	14.366	0.011	99	577282	50.0	51.2	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	98	85579	50.0	50.5	
133 1,2,3-Trichlorobenzene	180	14.514	14.514	0.000	95	237533	50.0	51.0	
S 134 1,2-Dichloroethene, Total	100				0		100.0	101.3	
S 135 Xylenes, Total	100				0		100.0	100.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00091	Amount Added:	50.00	Units: uL	
ACROLEIN W_00084	Amount Added:	10.00	Units: uL	
GASES Li_00291	Amount Added:	50.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 16-Dec-2018 16:55:52 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38547.D

Injection Date: 14-Dec-2018 00:38:30 Instrument ID: CVOAMS2 Operator ID:

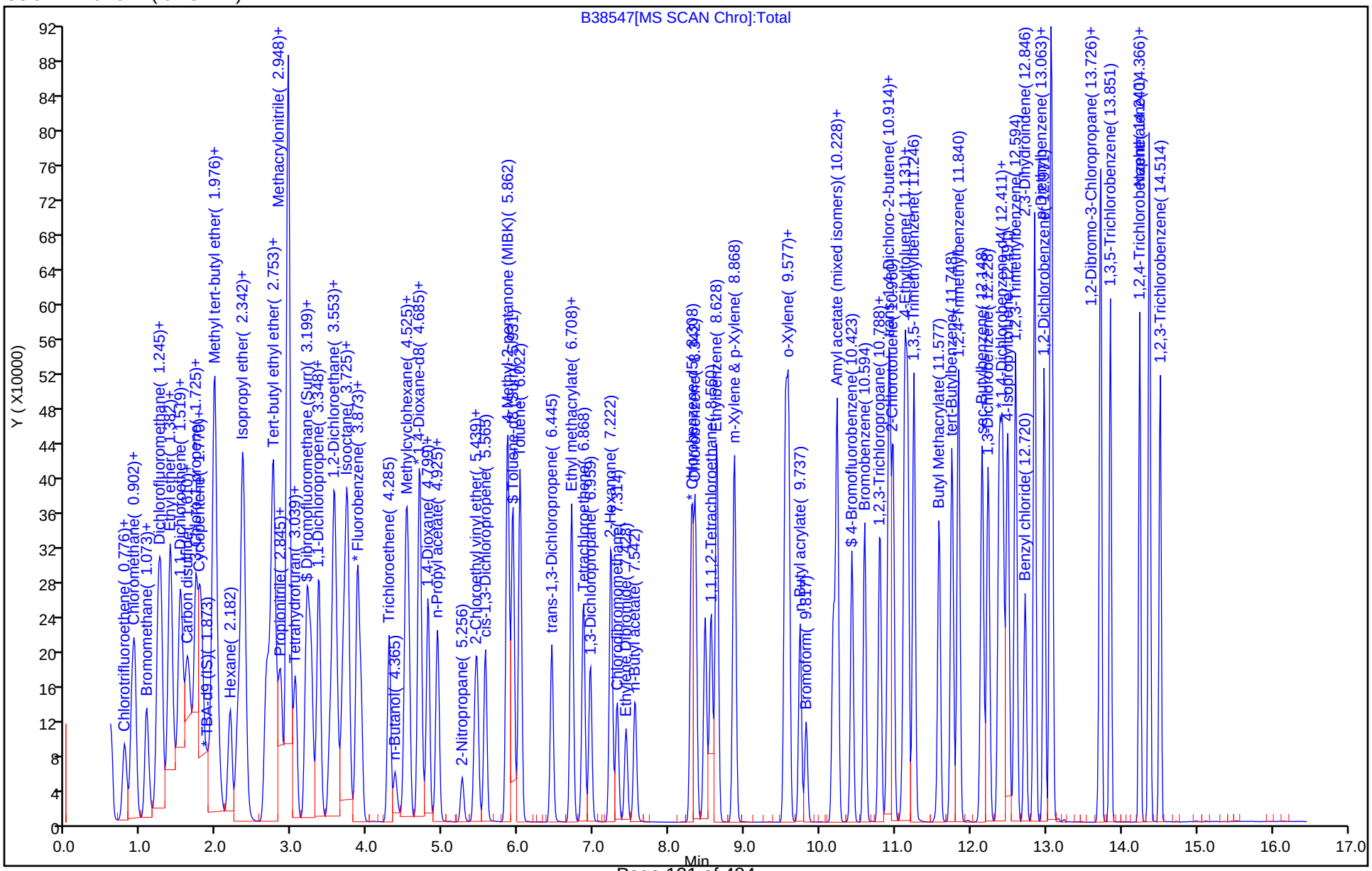
Lims ID: STD50 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38548.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Dec-2018 01:02:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0083531-008
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 16:56:02 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: moroneyc Date: 14-Dec-2018 09:14:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.764	0.764	0.000	88	198699	200.0	240.3	
2 Dichlorodifluoromethane	85	0.787	0.787	0.000	99	638182	200.0	220.1	
3 Chloromethane	50	0.867	0.867	0.000	99	847088	200.0	211.3	
4 Butadiene	54	0.902	0.902	0.000	92	508728	200.0	202.9	
5 Vinyl chloride	62	0.924	0.924	0.000	98	645248	200.0	213.2	
6 Bromomethane	94	1.062	1.062	0.000	99	494731	200.0	211.5	
7 Chloroethane	64	1.096	1.096	0.000	99	355380	200.0	206.1	
9 Dichlorofluoromethane	67	1.222	1.222	0.000	99	997519	200.0	213.3	
10 Pentane	72	1.267	1.256	0.011	95	153284	400.0	468.7	
8 Trichlorofluoromethane	101	1.256	1.256	0.000	97	765721	200.0	223.3	
11 Ethanol	46	1.370	1.370	0.000	91	89923	8000.0	9250.4	
12 Ethyl ether	59	1.370	1.370	0.000	89	386039	200.0	211.7	
13 2-Methyl-1,3-butadiene	53	1.382	1.382	0.000	88	405631	200.0	223.5	
14 1,2-Dichloro-1,1,2-trifluo	117	1.405	1.404	0.000	91	424341	200.0	209.1	
15 Acrolein	56	1.450	1.439	0.011	91	80837	200.0	200.5	
16 1,1-Dichloroethene	96	1.507	1.507	0.000	96	482756	200.0	216.8	
17 1,1,2-Trichloro-1,2,2-trif	101	1.530	1.530	0.000	95	453272	200.0	231.1	
18 Acetone	43	1.542	1.542	0.000	90	830087	1000.0	1208.4	
19 Iodomethane	142	1.599	1.599	0.000	96	1065787	200.0	214.8	
20 Carbon disulfide	76	1.633	1.633	0.000	98	1789859	200.0	210.3	
21 Isopropyl alcohol	45	1.656	1.656	0.000	96	288553	2000.0	1946.7	
22 3-Chloro-1-propene	76	1.713	1.690	0.023	97	313186	200.0	204.8	a
25 Acetonitrile	41	1.725	1.724	0.001	95	1449085	2000.0	2122.1	
24 Methyl acetate	43	1.736	1.736	0.000	99	681250	400.0	458.6	
23 Cyclopentene	67	1.770	1.770	0.000	96	1166214	200.0	221.2	
26 Methylene Chloride	84	1.805	1.804	0.001	87	589058	200.0	206.4	
* 27 TBA-d9 (IS)	65	1.873	1.873	0.000	0	213342	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.930	1.919	0.011	92	533072	2000.0	2023.1	
31 Acrylonitrile	53	1.965	1.965	0.001	95	1817607	2000.0	2128.6	
30 trans-1,2-Dichloroethene	96	1.987	1.976	0.011	93	558388	200.0	218.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Methyl tert-butyl ether	73	1.999	1.999	0.000	98	1418944	200.0	207.7	
32 Hexane	43	2.182	2.182	0.000	92	322746	200.0	217.8	
34 1,1-Dichloroethane	63	2.285	2.273	0.012	99	896914	200.0	214.7	
35 Vinyl acetate	86	2.330	2.330	0.000	100	195197	400.0	391.4	
36 2-Chloro-1,3-butadiene	88	2.353	2.342	0.011	91	478667	200.0	224.9	
33 Isopropyl ether	45	2.376	2.365	0.011	85	1494799	200.0	207.0	
37 Tert-butyl ethyl ether	87	2.673	2.662	0.011	89	632511	200.0	217.3	
* 39 2-Butanone-d5	46	2.719	2.719	0.000	0	209580	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.753	2.742	0.011	99	633104	200.0	214.4	
38 2,2-Dichloropropane	41	2.765	2.753	0.012	88	410303	200.0	203.8	
41 2-Butanone (MEK)	72	2.776	2.765	0.011	97	312555	1000.0	1114.6	
44 Propionitrile	54	2.822	2.810	0.012	95	667333	2000.0	2034.9	
42 Ethyl acetate	70	2.856	2.845	0.011	99	103028	400.0	400.1	
43 Methyl acrylate	85	2.868	2.867	0.001	98	78923	200.0	202.8	
46 Chlorobromomethane	128	2.959	2.947	0.012	82	327843	200.0	206.6	
47 Methacrylonitrile	67	2.959	2.947	0.012	91	2079816	2000.0	2092.2	
45 Tetrahydrofuran	72	2.993	2.993	0.000	94	132283	400.0	416.5	
48 Chloroform	83	3.050	3.039	0.011	99	905886	200.0	214.0	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.187	0.012	97	121817	50.0	53.7	
50 1,1,1-Trichloroethane	97	3.210	3.199	0.011	98	790466	200.0	223.6	
49 Cyclohexane	84	3.256	3.256	0.000	89	728714	200.0	222.7	
53 1,1-Dichloropropene	75	3.359	3.348	0.011	98	653351	200.0	213.6	
52 Carbon tetrachloride	117	3.359	3.359	0.000	98	649005	200.0	223.6	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.508	3.496	0.012	57	125526	50.0	52.7	
55 Benzene	78	3.553	3.553	0.000	96	2079702	200.0	209.7	
56 Isobutyl alcohol	74	3.565	3.553	0.012	94	166448	5000.0	5330.8	
60 1,2-Dichloroethane	62	3.588	3.576	0.012	98	650924	200.0	201.1	
54 Isooctane	57	3.690	3.679	0.011	96	1332804	200.0	235.9	
61 Isopropyl acetate	61	3.736	3.736	0.000	94	194400	200.0	218.0	
59 Tert-amyl methyl ether	73	3.736	3.736	0.000	91	1750833	200.0	215.4	
* 63 Fluorobenzene	96	3.873	3.862	0.011	99	441719	50.0	50.0	
62 n-Heptane	43	3.919	3.908	0.011	91	518935	200.0	229.2	
64 Trichloroethene	95	4.285	4.285	0.000	96	522173	200.0	217.4	
65 n-Butanol	43	4.365	4.365	0.000	87	171319	5000.0	5679.5	
66 Methylcyclohexane	83	4.513	4.513	0.000	78	830398	200.0	230.1	
67 Ethyl acrylate	55	4.513	4.513	0.000	98	1225760	200.0	225.0	
69 1,2-Dichloropropane	63	4.548	4.548	0.000	93	516070	200.0	220.2	
72 Dibromomethane	93	4.685	4.685	0.000	90	342098	200.0	211.3	
* 70 1,4-Dioxane-d8	96	4.696	4.708	-0.012	32	24738	1000.0	1000.0	
73 1,4-Dioxane	88	4.765	4.765	0.000	90	122486	4000.0	4036.8	
71 Methyl methacrylate	100	4.811	4.799	0.012	90	306935	400.0	439.2	
74 n-Propyl acetate	43	4.925	4.925	0.000	98	672733	200.0	223.8	
75 Dichlorobromomethane	83	4.936	4.936	0.000	99	682916	200.0	216.8	
76 2-Nitropropane	41	5.256	5.256	0.000	98	243526	400.0	482.0	
77 2-Chloroethyl vinyl ether	63	5.428	5.428	0.000	95	390779	200.0	221.5	
78 Epichlorohydrin	62	5.462	5.451	0.011	99	256351	4000.0	4688.0	
79 cis-1,3-Dichloropropene	75	5.565	5.565	0.000	92	851614	200.0	220.8	
80 4-Methyl-2-pentanone (MIBK	43	5.862	5.862	0.000	96	2372508	1000.0	1097.6	
$ 81 Toluene-d8 (Surr)	98	5.931	5.931	0.000	99	462326	50.0	52.0	
82 Toluene	91	6.034	6.022	0.012	93	2275441	200.0	210.8	
83 trans-1,3-Dichloropropene	75	6.445	6.445	0.000	97	816493	200.0	230.0	
86 1,1,2-Trichloroethane	83	6.708	6.708	0.000	81	419257	200.0	212.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Ethyl methacrylate	69	6.719	6.708	0.011	88	715307	200.0	226.9	
85 Tetrachloroethene	166	6.868	6.868	0.000	97	634870	200.0	217.0	
87 1,3-Dichloropropane	76	6.959	6.959	0.000	93	823264	200.0	218.3	
88 2-Hexanone	43	7.234	7.222	0.012	95	1786467	1000.0	1215.3	
89 Chlorodibromomethane	129	7.314	7.314	0.000	98	606307	200.0	229.4	
91 Ethylene Dibromide	107	7.439	7.428	0.011	98	576096	200.0	219.4	
90 n-Butyl acetate	73	7.554	7.542	0.012	99	145378	200.0	227.2	
* 92 Chlorobenzene-d5	117	8.308	8.297	0.011	83	377607	50.0	50.0	
93 Chlorobenzene	112	8.354	8.342	0.012	96	1604611	200.0	210.9	
95 1,1,1,2-Tetrachloroethane	131	8.560	8.559	0.001	96	561238	200.0	219.9	
94 Ethylbenzene	106	8.640	8.628	0.012	97	854332	200.0	217.1	
96 m-Xylene & p-Xylene	106	8.868	8.868	0.000	0	1041650	200.0	217.7	
97 o-Xylene	106	9.542	9.542	0.000	95	1018695	200.0	216.0	
99 Styrene	104	9.588	9.588	0.000	97	1847687	200.0	224.9	
98 n-Butyl acrylate	73	9.737	9.737	0.000	98	465332	200.0	231.9	
100 Bromoform	173	9.817	9.817	0.000	99	456116	200.0	240.8	
101 Amyl acetate (mixed isomer	43	10.183	10.171	0.012	91	1033518	200.0	227.4	
102 Isopropylbenzene	105	10.228	10.228	0.000	95	2484782	200.0	214.6	
$ 103 4-Bromofluorobenzene	174	10.423	10.422	0.001	98	189271	50.0	55.2	
104 Bromobenzene	156	10.594	10.594	0.000	91	824892	200.0	212.4	
107 1,2,3-Trichloropropane	110	10.788	10.788	0.000	98	201397	200.0	212.3	
105 1,1,2,2-Tetrachloroethane	83	10.800	10.800	0.000	98	709144	200.0	211.0	
108 trans-1,4-Dichloro-2-buten	53	10.903	10.891	0.012	90	200312	200.0	223.4	
106 N-Propylbenzene	120	10.925	10.925	0.000	100	736353	200.0	214.6	
109 2-Chlorotoluene	126	10.971	10.971	0.000	96	699602	200.0	209.9	
110 4-Ethyltoluene	105	11.131	11.120	0.011	98	2626204	200.0	215.0	
112 4-Chlorotoluene	91	11.165	11.165	0.000	96	2234419	200.0	212.4	
111 1,3,5-Trimethylbenzene	105	11.245	11.245	0.000	94	2133797	200.0	212.9	
113 Butyl Methacrylate	87	11.588	11.577	0.011	88	851711	200.0	236.4	
114 tert-Butylbenzene	91	11.748	11.748	0.000	95	1082843	200.0	216.8	
115 1,2,4-Trimethylbenzene	105	11.840	11.840	0.000	97	2292968	200.0	214.4	
116 sec-Butylbenzene	105	12.160	12.148	0.012	99	2597162	200.0	217.0	
117 1,3-Dichlorobenzene	146	12.240	12.228	0.012	98	1475404	200.0	211.4	
* 119 1,4-Dichlorobenzene-d4	152	12.377	12.377	0.000	92	226064	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.423	12.423	0.000	97	1536040	200.0	214.7	
118 4-Isopropyltoluene	119	12.491	12.491	0.000	98	2377685	200.0	215.2	
121 1,2,3-Trimethylbenzene	105	12.606	12.594	0.012	98	2358883	NC	NC	
122 Benzyl chloride	126	12.720	12.720	0.000	100	335993	200.0	242.4	
123 2,3-Dihydroindene	117	12.846	12.846	0.000	94	2518836	200.0	213.2	
126 1,2-Dichlorobenzene	146	12.971	12.971	0.000	98	1475012	200.0	213.5	
124 p-Diethylbenzene	105	13.063	13.051	0.012	94	1286192	200.0	219.7	
125 n-Butylbenzene	92	13.074	13.074	0.000	94	1215511	200.0	227.4	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	90	141392	200.0	225.0	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	2409960	200.0	224.2	
129 1,3,5-Trichlorobenzene	180	13.851	13.851	0.000	98	1156098	200.0	215.4	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	94	1085495	200.0	220.8	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	98	375738	200.0	223.5	
132 Naphthalene	128	14.366	14.366	0.000	99	2535683	200.0	226.6	
133 1,2,3-Trichlorobenzene	180	14.514	14.514	0.000	95	1018005	200.0	220.6	
S 134 1,2-Dichloroethene, Total	100				0		400.0	432.7	
S 135 Xylenes, Total	100				0		400.0	433.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

MIX I Hi_00101	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00077	Amount Added:	20.00	Units: uL	
Ethanol mix_00022	Amount Added:	20.00	Units: uL	
ACROLEIN W_00084	Amount Added:	20.00	Units: uL	
GAS Hi_00284	Amount Added:	20.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 16-Dec-2018 16:56:04 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38548.D

Injection Date: 14-Dec-2018 01:02:30 Instrument ID: CVOAMS2 Operator ID:

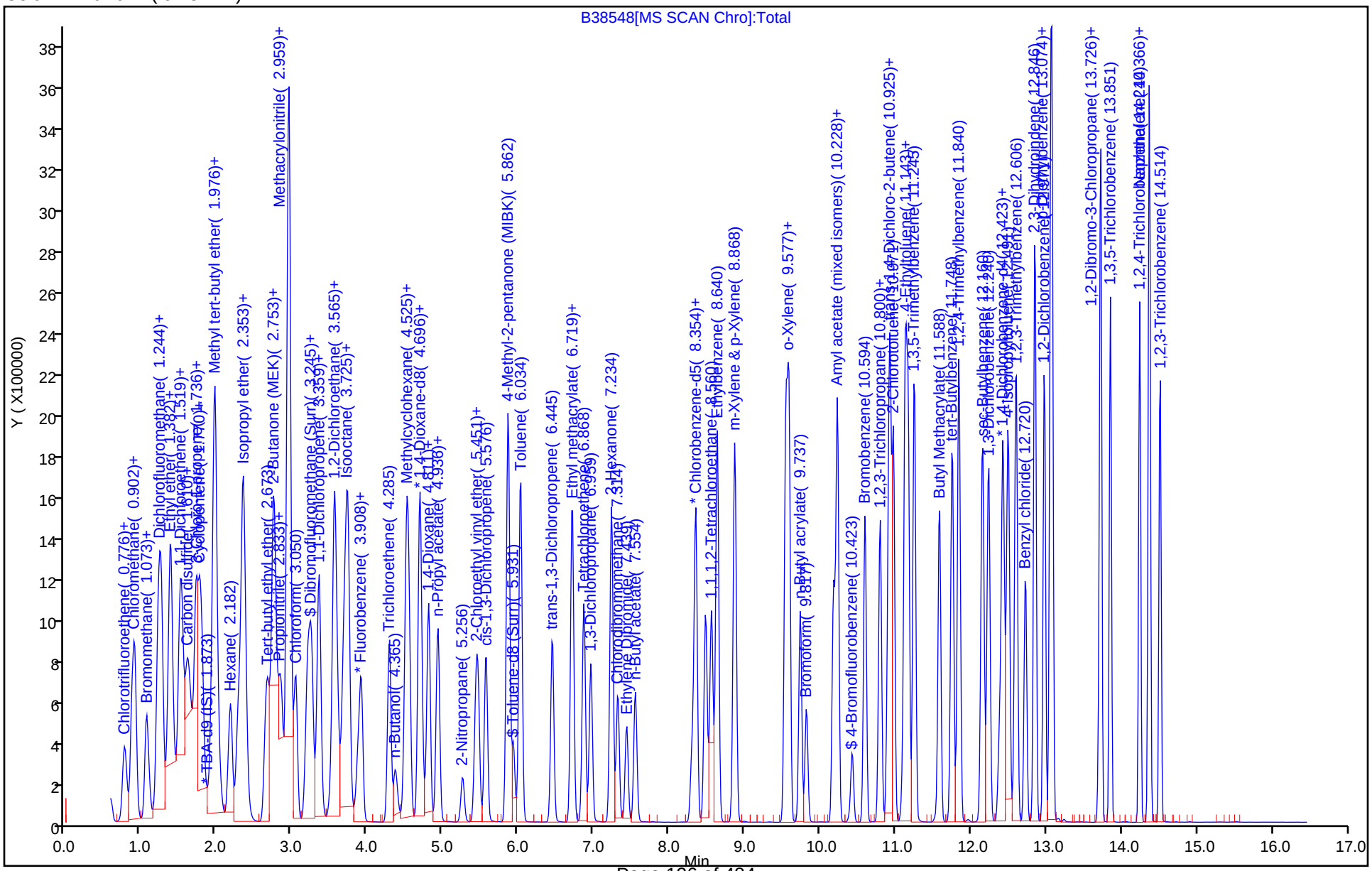
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38549.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Dec-2018 01:27:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0083531-009
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 16:56:14 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: moroneyc Date: 14-Dec-2018 09:18:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.765	0.764	0.001	90	472042	500.0	493.7	
2 Dichlorodifluoromethane	85	0.787	0.787	0.000	99	1532562	500.0	457.2	
3 Chloromethane	50	0.879	0.867	0.012	99	2056376	500.0	443.7	
4 Butadiene	54	0.913	0.902	0.011	93	1233005	500.0	499.4	
5 Vinyl chloride	62	0.936	0.924	0.012	99	1569500	500.0	448.5	
6 Bromomethane	94	1.073	1.062	0.011	99	1125181	500.0	415.9	
7 Chloroethane	64	1.096	1.096	0.000	100	841160	500.0	421.8	
9 Dichlorofluoromethane	67	1.222	1.222	0.000	98	2459115	500.0	454.9	
8 Trichlorofluoromethane	101	1.256	1.256	0.000	98	1879921	500.0	474.2	
10 Pentane	72	1.279	1.256	0.023	95	383112	1000.0	1133.8	
12 Ethyl ether	59	1.382	1.370	0.012	90	1008849	500.0	478.5	
11 Ethanol	46	1.382	1.370	0.012	91	288986	20000	28771	
13 2-Methyl-1,3-butadiene	53	1.393	1.382	0.011	84	1006888	500.0	479.7	
14 1,2-Dichloro-1,1,2-trifluo	117	1.405	1.404	0.001	92	1038156	500.0	442.3	
15 Acrolein	56	1.450	1.439	0.011	91	172499	400.0	414.0	
16 1,1-Dichloroethene	96	1.519	1.507	0.012	96	1212233	500.0	470.9	
17 1,1,2-Trichloro-1,2,2-trif	101	1.542	1.530	0.012	97	1110349	500.0	489.5	
18 Acetone	43	1.542	1.542	0.000	87	1589212	2500.0	1921.9	
19 Iodomethane	142	1.610	1.599	0.011	96	2637461	500.0	459.7	
20 Carbon disulfide	76	1.656	1.633	0.023	99	5119971	500.0	520.2	
21 Isopropyl alcohol	45	1.668	1.656	0.012	91	836018	5000.0	5458.4	
22 3-Chloro-1-propene	76	1.713	1.690	0.023	86	819109	500.0	463.3	Ma
25 Acetonitrile	41	1.725	1.724	0.001	83	3675788	5000.0	4655.6	
24 Methyl acetate	43	1.748	1.736	0.012	98	1799924	1000.0	1047.9	
23 Cyclopentene	67	1.782	1.770	0.012	95	2935127	500.0	481.4	
26 Methylene Chloride	84	1.816	1.804	0.012	87	1493810	500.0	452.8	
* 27 TBA-d9 (IS)	65	1.885	1.873	0.012	0	220441	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.942	1.919	0.023	96	1335700	5000.0	4906.0	
31 Acrylonitrile	53	1.976	1.965	0.012	94	4790903	5000.0	4854.1	
30 trans-1,2-Dichloroethene	96	1.988	1.976	0.012	93	1395364	500.0	471.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Methyl tert-butyl ether	73	2.010	1.999	0.011	98	3599490	500.0	455.8	
32 Hexane	43	2.182	2.182	0.000	92	807739	500.0	471.4	
34 1,1-Dichloroethane	63	2.285	2.273	0.012	99	2300185	500.0	476.1	
35 Vinyl acetate	86	2.342	2.330	0.012	100	583360	1000.0	1132.0	
36 2-Chloro-1,3-butadiene	88	2.353	2.342	0.011	90	1215035	500.0	493.8	
33 Isopropyl ether	45	2.376	2.365	0.011	85	3786547	500.0	453.6	
37 Tert-butyl ethyl ether	87	2.673	2.662	0.011	89	1586107	500.0	471.3	
* 39 2-Butanone-d5	46	2.731	2.719	0.011	0	252278	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.753	2.742	0.011	99	1608708	500.0	471.1	
38 2,2-Dichloropropane	41	2.765	2.753	0.012	85	950454	500.0	499.1	
41 2-Butanone (MEK)	72	2.788	2.765	0.023	96	761987	2500.0	2257.4	
44 Propionitrile	54	2.833	2.810	0.023	95	1809401	5000.0	5339.6	
42 Ethyl acetate	70	2.856	2.845	0.011	98	280429	1000.0	904.8	
43 Methyl acrylate	85	2.879	2.867	0.012	98	209619	500.0	499.6	
47 Methacrylonitrile	67	2.971	2.947	0.024	91	5509513	5000.0	4793.4	
46 Chlorobromomethane	128	2.971	2.947	0.024	82	831887	500.0	453.5	
45 Tetrahydrofuran	72	3.005	2.993	0.012	93	347618	1000.0	909.4	
48 Chloroform	83	3.062	3.039	0.023	100	2302104	500.0	470.3	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.187	0.012	98	127263	50.0	48.6	
50 1,1,1-Trichloroethane	97	3.211	3.199	0.012	98	1945602	500.0	475.9	
49 Cyclohexane	84	3.256	3.256	0.000	89	1812607	500.0	479.2	
53 1,1-Dichloropropene	75	3.359	3.348	0.011	98	1652187	500.0	467.1	
52 Carbon tetrachloride	117	3.371	3.359	0.012	98	1617083	500.0	481.9	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.508	3.496	0.012	56	138164	50.0	50.2	
56 Isobutyl alcohol	74	3.565	3.553	0.012	93	414217	12500	12819	
55 Benzene	78	3.565	3.553	0.012	96	5259167	500.0	483.0	
60 1,2-Dichloroethane	62	3.588	3.576	0.012	98	1707542	500.0	456.1	
54 Isooctane	57	3.702	3.679	0.023	96	3294279	500.0	504.2	
59 Tert-amyl methyl ether	73	3.748	3.736	0.012	88	4337977	500.0	461.6	
61 Isopropyl acetate	61	3.748	3.736	0.012	92	526050	500.0	510.2	
* 63 Fluorobenzene	96	3.873	3.862	0.011	99	510736	50.0	50.0	a
62 n-Heptane	43	3.919	3.908	0.011	91	1330565	500.0	508.3	
64 Trichloroethene	95	4.296	4.285	0.011	97	1347036	500.0	485.0	
65 n-Butanol	43	4.376	4.365	0.011	86	459580	12500	14745	
67 Ethyl acrylate	55	4.525	4.513	0.012	96	3098347	500.0	491.9	
66 Methylcyclohexane	83	4.525	4.513	0.012	78	2086630	500.0	500.0	
69 1,2-Dichloropropane	63	4.559	4.548	0.011	91	1309442	500.0	483.3	
72 Dibromomethane	93	4.696	4.685	0.011	91	878847	500.0	469.6	
* 70 1,4-Dioxane-d8	96	4.708	4.708	0.000	33	32425	1000.0	1000.0	
73 1,4-Dioxane	88	4.765	4.765	0.000	88	414042	10000	10411	
71 Methyl methacrylate	100	4.811	4.799	0.012	87	786893	1000.0	973.9	
74 n-Propyl acetate	43	4.925	4.925	0.000	98	1726764	500.0	496.9	
75 Dichlorobromomethane	83	4.948	4.936	0.012	99	1796272	500.0	493.2	
76 2-Nitropropane	41	5.268	5.256	0.012	98	651060	1000.0	1114.4	
77 2-Chloroethyl vinyl ether	63	5.439	5.428	0.011	94	984881	500.0	482.8	
78 Epichlorohydrin	62	5.462	5.451	0.011	99	640815	10000	9735.4	
79 cis-1,3-Dichloropropene	75	5.576	5.565	0.011	92	2093111	500.0	494.2	
80 4-Methyl-2-pentanone (MIBK	43	5.874	5.862	0.012	96	6101056	2500.0	2344.9	
$ 81 Toluene-d8 (Surr)	98	5.942	5.931	0.011	97	487674	50.0	50.0	
82 Toluene	91	6.034	6.022	0.012	93	5579810	500.0	470.8	
83 trans-1,3-Dichloropropene	75	6.457	6.445	0.012	97	2013482	500.0	516.6	
84 Ethyl methacrylate	69	6.719	6.708	0.011	88	1802077	500.0	520.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 1,1,2-Trichloroethane	83	6.719	6.708	0.011	96	1047765	500.0	482.5	
85 Tetrachloroethene	166	6.868	6.868	0.000	97	1544332	500.0	480.8	
87 1,3-Dichloropropane	76	6.959	6.959	0.000	93	2020370	500.0	488.0	
88 2-Hexanone	43	7.245	7.222	0.023	94	4206656	2500.0	2377.3	
89 Chlorodibromomethane	129	7.325	7.314	0.011	98	1519976	500.0	523.9	
91 Ethylene Dibromide	107	7.440	7.428	0.012	98	1419082	500.0	492.3	
90 n-Butyl acetate	73	7.554	7.542	0.012	99	368970	500.0	525.2	
* 92 Chlorobenzene-d5	117	8.308	8.297	0.011	84	414595	50.0	50.0	
93 Chlorobenzene	112	8.354	8.342	0.012	96	3855580	500.0	461.5	
95 1,1,1,2-Tetrachloroethane	131	8.571	8.559	0.012	97	1443876	500.0	515.3	
94 Ethylbenzene	106	8.640	8.628	0.012	98	2052221	500.0	475.1	
96 m-Xylene & p-Xylene	106	8.880	8.868	0.012	0	2526125	500.0	480.9	
97 o-Xylene	106	9.554	9.542	0.012	95	2559062	500.0	494.3	
99 Styrene	104	9.600	9.588	0.012	96	4507104	500.0	499.6	
98 n-Butyl acrylate	73	9.748	9.737	0.011	98	1204554	500.0	546.7	
100 Bromoform	173	9.828	9.817	0.011	99	1185528	500.0	569.9	
101 Amyl acetate (mixed isomer	43	10.183	10.171	0.012	91	2660161	500.0	527.1	
102 Isopropylbenzene	105	10.240	10.228	0.012	95	6175184	500.0	485.7	
$ 103 4-Bromofluorobenzene	174	10.434	10.422	0.012	98	187086	50.0	49.7	
104 Bromobenzene	156	10.606	10.594	0.012	91	2001964	500.0	464.2	
107 1,2,3-Trichloropropane	110	10.800	10.788	0.012	98	504498	500.0	479.0	
105 1,1,2,2-Tetrachloroethane	83	10.811	10.800	0.011	98	1806517	500.0	484.1	
108 trans-1,4-Dichloro-2-buten	53	10.903	10.891	0.012	94	522752	500.0	480.2	
106 N-Propylbenzene	120	10.937	10.925	0.012	100	1791525	500.0	470.3	
109 2-Chlorotoluene	126	10.983	10.971	0.012	97	1747435	500.0	472.2	
110 4-Ethyltoluene	105	11.143	11.120	0.023	98	6287580	500.0	463.6	
112 4-Chlorotoluene	91	11.177	11.165	0.012	98	5515782	500.0	472.3	
111 1,3,5-Trimethylbenzene	105	11.257	11.245	0.012	94	5320463	500.0	478.2	
113 Butyl Methacrylate	87	11.589	11.577	0.012	88	2166855	500.0	541.6	
114 tert-Butylbenzene	91	11.760	11.748	0.012	95	2796465	500.0	504.2	
115 1,2,4-Trimethylbenzene	105	11.851	11.840	0.011	97	5583819	500.0	470.3	
116 sec-Butylbenzene	105	12.160	12.148	0.012	99	6507606	500.0	489.7	
117 1,3-Dichlorobenzene	146	12.240	12.228	0.012	98	3672566	500.0	473.8	
* 119 1,4-Dichlorobenzene-d4	152	12.389	12.377	0.012	94	251007	50.0	50.0	a
120 1,4-Dichlorobenzene	146	12.434	12.423	0.011	96	3785600	500.0	476.6	
118 4-Isopropyltoluene	119	12.503	12.491	0.012	98	5831474	500.0	475.4	
121 1,2,3-Trimethylbenzene	105	12.606	12.594	0.012	98	5834571	NC	NC	
122 Benzyl chloride	126	12.731	12.720	0.011	100	868156	500.0	564.0	
123 2,3-Dihydroindene	117	12.857	12.846	0.011	95	6027973	500.0	459.6	
126 1,2-Dichlorobenzene	146	12.983	12.971	0.012	98	3549279	500.0	462.7	
124 p-Diethylbenzene	105	13.063	13.051	0.012	94	3099646	500.0	476.9	
125 n-Butylbenzene	92	13.086	13.074	0.012	98	2963844	500.0	499.4	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	90	362264	500.0	519.1	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	5182497	500.0	434.2	
129 1,3,5-Trichlorobenzene	180	13.852	13.851	0.001	98	2561553	500.0	429.9	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	94	2406801	500.0	440.9	
132 Naphthalene	128	14.377	14.366	0.011	99	5657510	500.0	455.4	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	98	883162	500.0	473.2	
133 1,2,3-Trichlorobenzene	180	14.515	14.514	0.001	96	2334405	500.0	455.5	
S 134 1,2-Dichloroethene, Total	100				0		1000.0	942.9	
S 135 Xylenes, Total	100				0		1000.0	975.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MIX I Hi_00101	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00077	Amount Added:	50.00	Units: uL	
Ethanol mix_00022	Amount Added:	50.00	Units: uL	
ACROLEIN W_00084	Amount Added:	40.00	Units: uL	
GAS Hi_00284	Amount Added:	50.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 16-Dec-2018 16:56:16 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38549.D

Injection Date: 14-Dec-2018 01:27:30 Instrument ID: CVOAMS2 Operator ID:

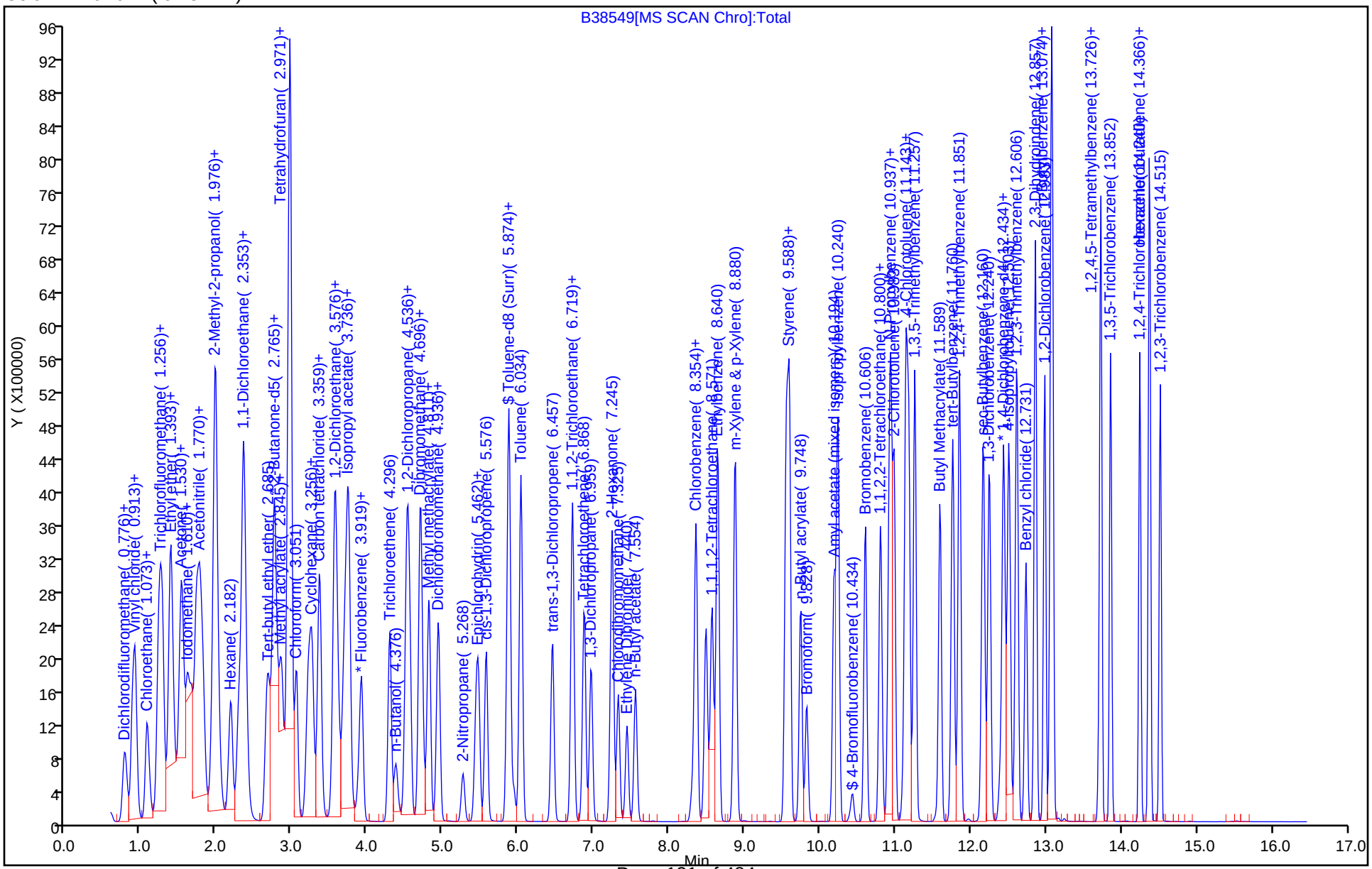
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-Dec-2018 09:53:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0083531-014
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 16:56:24 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: moroneyc Date: 14-Dec-2018 10:12:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Butadiene	54	0.902	0.902	0.000	79	1376	0.2500	0.4466	
18 Acetone	43	1.542	1.542	0.000	56	1850		2.30	
* 27 TBA-d9 (IS)	65	1.873	1.873	0.000	0	235318	1000.0	1000.0	
31 Acrylonitrile	53	1.965	1.965	0.001	92	3171	2.00	2.05	
* 39 2-Butanone-d5	46	2.730	2.719	0.011	0	245147	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	3.188	3.187	0.001	98	120520	50.0	47.6	
52 Carbon tetrachloride	117	3.359	3.359	0.000	7	100		0.0309	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.508	3.496	0.012	59	128556	50.0	48.4	
55 Benzene	78	3.553	3.553	0.000	79	490		0.0441	
* 63 Fluorobenzene	96	3.873	3.862	0.011	99	492932	50.0	50.0	
* 70 1,4-Dioxane-d8	96	4.708	4.708	0.000	97	23703	1000.0	1000.0	
78 Epichlorohydrin	62	5.462	5.451	0.011	93	289	5.00	4.52	
$ 81 Toluene-d8 (Surr)	98	5.931	5.931	0.000	99	503288	50.0	50.6	
82 Toluene	91	6.022	6.022	0.000	85	1284		0.1062	
* 92 Chlorobenzene-d5	117	8.308	8.297	0.011	84	422895	50.0	50.0	
94 Ethylbenzene	106	8.651	8.628	0.023	89	147		0.0334	
96 m-Xylene & p-Xylene	106	8.868	8.868	0.000	0	368		0.0687	
97 o-Xylene	106	9.543	9.542	0.001	84	272		0.0515	
102 Isopropylbenzene	105	10.228	10.228	0.000	86	1093		0.0843	
$ 103 4-Bromofluorobenzene	174	10.423	10.422	0.001	97	179934	50.0	46.9	
106 N-Propylbenzene	120	10.926	10.925	0.001	93	146		0.0426	
110 4-Ethyltoluene	105	11.131	11.120	0.011	93	956		0.0784	
112 4-Chlorotoluene	91	11.166	11.165	0.001	86	782		0.0745	
111 1,3,5-Trimethylbenzene	105	11.246	11.245	0.001	91	1064		0.1064	
116 sec-Butylbenzene	105	12.149	12.148	0.001	93	1522		0.1274	
117 1,3-Dichlorobenzene	146	12.229	12.228	0.001	92	654		0.0939	
* 119 1,4-Dichlorobenzene-d4	152	12.377	12.377	0.000	94	225667	50.0	50.0	
124 p-Diethylbenzene	105	13.063	13.051	0.012	58	854		0.1462	
125 n-Butylbenzene	92	13.074	13.074	0.000	91	1026		0.1923	
130 1,2,4-Trichlorobenzene	180	14.252	14.240	0.012	85	852		0.1736	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 Hexachlorobutadiene	225	14.366	14.366	0.000	57	518		0.3087	
132 Naphthalene	128	14.377	14.366	0.011	94	1719		0.1539	
S 135 Xylenes, Total	100				0			0.1202	

Reagents:

GAS Hi_00284	Amount Added:	0.00	Units: uL	
MIX I Hi_00101	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00077	Amount Added:	0.00	Units: uL	
Ethanol mix_00022	Amount Added:	0.00	Units: uL	
ACROLEIN W_00084	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00056	Amount Added:	20.00	Units: uL	
14DIOXINTER_00094	Amount Added:	0.00	Units: uL	
GASES Li_00291	Amount Added:	2.50	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 16-Dec-2018 16:56:24 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Injection Date: 14-Dec-2018 09:53:30 Instrument ID: CVOAMS2 Operator ID:

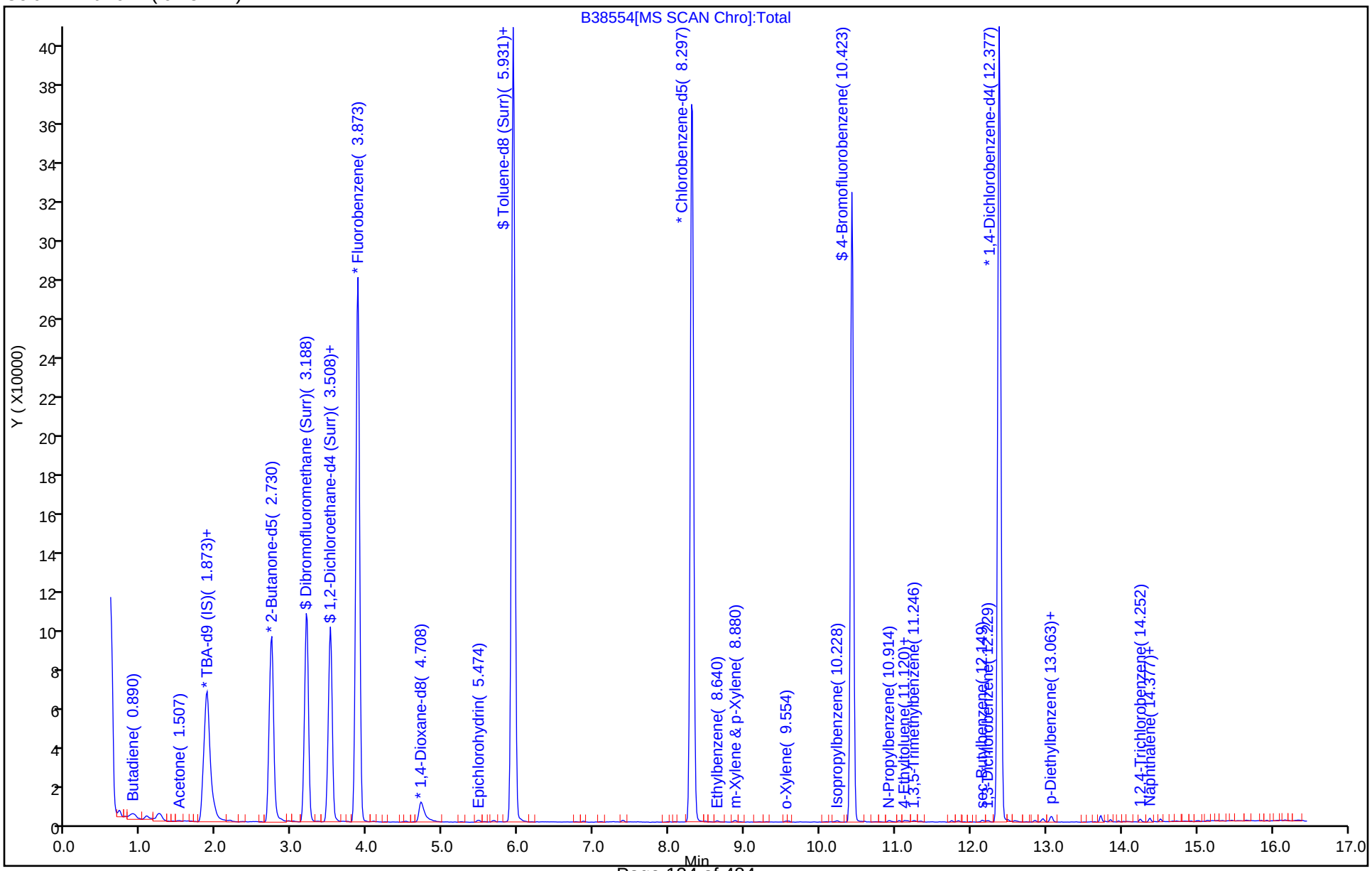
Lims ID: STD7 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-576213/3 Calibration Date: 12/16/2018 07:13

Instrument ID: CVOAMS2 Calib Start Date: 12/13/2018 23:23

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 12/14/2018 09:53

Lab File ID: B38639.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
Chlorotrifluoroethene	Ave	0.0936	0.0783		16.7	20.0	-16.4	20.0
Dichlorodifluoromethane	Ave	0.3281	0.4291	0.1000	26.2	20.0	30.8*	20.0
Chloromethane	Ave	0.4537	0.4701	0.1000	20.7	20.0	3.6	20.0
Butadiene	QuaF		0.2958		19.1	20.0	-4.5	20.0
Vinyl chloride	Ave	0.3426	0.3670	0.1000	21.4	20.0	7.1	20.0
Bromomethane	Ave	0.2648	0.2777	0.1000	21.0	20.0	4.9	20.0
Chloroethane	Ave	0.1952	0.2025	0.1000	20.7	20.0	3.7	20.0
Dichlorofluoromethane	Ave	0.5293	0.5615		21.2	20.0	6.1	20.0
Trichlorofluoromethane	Ave	0.3881	0.4423	0.1000	22.8	20.0	14.0	20.0
Pentane	Ave	1.533	1.420		37.0	40.0	-7.4	20.0
Ethanol	Ave	0.0456	0.0447		785	800	-1.8	20.0
Ethyl ether	Ave	0.2064	0.1822		17.7	20.0	-11.7	20.0
2-Methyl-1,3-butadiene	Ave	0.2055	0.1762		17.1	20.0	-14.3	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2298	0.2172		18.9	20.0	-5.4	20.0
Acrolein	Ave	1.890	1.032		21.8	40.0	-45.4*	20.0
1,1-Dichloroethene	Ave	0.2520	0.2302	0.1000	18.3	20.0	-8.7	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2221	0.2209	0.1000	19.9	20.0	-0.5	20.0
Acetone	Ave	0.8194	0.7221	0.0500	88.1	100	-11.9	20.0
Iodomethane	Ave	0.5617	0.5051		18.0	20.0	-10.1	20.0
Carbon disulfide	Ave	0.9635	0.7713	0.1000	16.0	20.0	-19.9	20.0
Isopropyl alcohol	Ave	0.6948	0.5616		162	200	-19.2	20.0
3-Chloro-1-propene	Ave	0.1731	0.1423		16.4	20.0	-17.8	20.0
Acetonitrile	Ave	0.0773	0.0633		164	200	-18.1	20.0
Methyl acetate	Ave	0.1681	0.1430	0.1000	34.0	40.0	-14.9	20.0
Cyclopentene	Ave	0.5969	0.5113		17.1	20.0	-14.3	20.0
Methylene Chloride	Ave	0.3230	0.2835	0.1000	17.6	20.0	-12.2	20.0
2-Methyl-2-propanol	Ave	1.235	1.092		177	200	-11.6	20.0
Acrylonitrile	Lin2		0.0817		168	200	-16.1	20.0
trans-1,2-Dichloroethene	Ave	0.2895	0.2640	0.1000	18.2	20.0	-8.8	20.0
Methyl tert-butyl ether	Ave	0.7732	0.6891	0.1000	17.8	20.0	-10.9	20.0
Hexane	Ave	0.1677	0.1344		16.0	20.0	-19.9	20.0
1,1-Dichloroethane	Ave	0.4730	0.4061	0.2000	17.2	20.0	-14.1	20.0
Vinyl acetate	Ave	2.338	2.036		34.8	40.0	-12.9	20.0
2-Chloro-1,3-butadiene	Ave	0.2409	0.2282		18.9	20.0	-5.3	20.0
Isopropyl ether	Ave	0.8173	0.6806		16.7	20.0	-16.7	20.0
Tert-butyl ethyl ether	Ave	0.3294	0.3080		18.7	20.0	-6.5	20.0
2,2-Dichloropropane	QuaF		0.2210		17.4	20.0	-13.0	20.0
cis-1,2-Dichloroethene	Ave	0.3343	0.2987	0.1000	17.9	20.0	-10.7	20.0
2-Butanone (MEK)	Ave	0.3345	0.3175	0.0500	94.9	100	-5.1	20.0
Propionitrile	Ave	1.537	1.322		172	200	-14.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-576213/3 Calibration Date: 12/16/2018 07:13

Instrument ID: CVOAMS2 Calib Start Date: 12/13/2018 23:23

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 12/14/2018 09:53

Lab File ID: B38639.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
Ethyl acetate	Ave	0.3071	0.2992		39.0	40.0	-2.6	20.0
Methyl acrylate	QuaF		0.0375		16.3	20.0	-18.4	20.0
Bromochloromethane	Ave	0.1796	0.1540		17.2	20.0	-14.2	20.0
Methacrylonitrile	Ave	0.1125	0.0996		177	200	-11.5	20.0
Tetrahydrofuran	Ave	0.3788	0.3352		35.4	40.0	-11.5	20.0
Chloroform	Ave	0.4792	0.4321	0.2000	18.0	20.0	-9.8	20.0
1,1,1-Trichloroethane	Ave	0.4002	0.3879	0.1000	19.4	20.0	-3.1	20.0
Cyclohexane	Ave	0.3703	0.3368	0.1000	18.2	20.0	-9.0	20.0
1,1-Dichloropropene	Ave	0.3463	0.3002		17.3	20.0	-13.3	20.0
Carbon tetrachloride	Ave	0.3285	0.3068	0.1000	18.7	20.0	-6.6	20.0
Benzene	Ave	1.313	1.121	0.5000	17.1	20.0	-14.7	20.0
Isobutyl alcohol	Lin2		0.1273		448	500	-10.5	20.0
1,2-Dichloroethane	Ave	0.3665	0.3246	0.1000	17.7	20.0	-11.4	20.0
Isooctane	Ave	0.6396	0.5762		18.0	20.0	-9.9	20.0
Isopropyl acetate	Ave	0.1009	0.0850		16.8	20.0	-15.8	20.0
Tert-amyl methyl ether	Ave	0.9201	0.7862		17.1	20.0	-14.5	20.0
n-Heptane	Ave	0.2562	0.2206		17.2	20.0	-13.9	20.0
Trichloroethene	Ave	0.2719	0.2535	0.2000	18.6	20.0	-6.8	20.0
n-Butanol	Ave	0.1414	0.1253		443	500	-11.4	20.0
Ethyl acrylate	Ave	0.6166	0.5409		17.5	20.0	-12.3	20.0
Methylcyclohexane	Ave	0.4086	0.3744	0.1000	18.3	20.0	-8.4	20.0
1,2-Dichloropropane	Ave	0.2653	0.2401	0.1000	18.1	20.0	-9.5	20.0
Dibromomethane	Ave	0.1832	0.1619		17.7	20.0	-11.7	20.0
1,4-Dioxane	Ave	1.227	1.102		359	400	-10.2	20.0
Methyl methacrylate	Ave	0.0791	0.0740		37.4	40.0	-6.4	20.0
n-Propyl acetate	Ave	0.3402	0.2990		17.6	20.0	-12.1	20.0
Bromodichloromethane	Ave	0.3566	0.3145	0.2000	17.6	20.0	-11.8	20.0
2-Nitropropane	Ave	0.0572	0.0564		39.5	40.0	-1.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1997	0.1840		18.4	20.0	-7.9	20.0
Epichlorohydrin	Ave	0.0652	0.0689		422	400	5.6	20.0
cis-1,3-Dichloropropene	Ave	0.5108	0.4405	0.2000	17.2	20.0	-13.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.578	2.362	0.0500	91.6	100	-8.4	20.0
Toluene	Ave	1.429	1.274	0.4000	17.8	20.0	-10.9	20.0
trans-1,3-Dichloropropene	Ave	0.4700	0.4447	0.1000	18.9	20.0	-5.4	20.0
1,1,2-Trichloroethane	Ave	0.2619	0.2392	0.1000	18.3	20.0	-8.7	20.0
Ethyl methacrylate	Ave	0.4174	0.3837		18.4	20.0	-8.1	20.0
Tetrachloroethene	Ave	0.3873	0.3617	0.2000	18.7	20.0	-6.6	20.0
1,3-Dichloropropane	Ave	0.4993	0.4618		18.5	20.0	-7.5	20.0
2-Hexanone	Ave	1.753	1.657	0.0500	94.5	100	-5.5	20.0
Dibromochloromethane	Ave	0.3499	0.3129	0.1000	17.9	20.0	-10.6	20.0
1,2-Dibromoethane	Ave	0.3476	0.3106	0.1000	17.9	20.0	-10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-576213/3 Calibration Date: 12/16/2018 07:13

Instrument ID: CVOAMS2 Calib Start Date: 12/13/2018 23:23

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 12/14/2018 09:53

Lab File ID: B38639.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
n-Butyl acetate	Ave	0.0847	0.0747		17.6	20.0	-11.8	20.0
Chlorobenzene	Ave	1.008	0.9101	0.5000	18.1	20.0	-9.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3379	0.2877		17.0	20.0	-14.9	20.0
Ethylbenzene	Ave	0.5210	0.4746	0.1000	18.2	20.0	-8.9	20.0
m-Xylene & p-Xylene	Ave	0.6336	0.5845	0.1000	18.5	20.0	-7.7	20.0
o-Xylene	Ave	0.6244	0.5663	0.3000	18.1	20.0	-9.3	20.0
Styrene	Ave	1.088	0.9901	0.3000	18.2	20.0	-9.0	20.0
n-Butyl acrylate	Ave	0.2657	0.2159		16.2	20.0	-18.8	20.0
Bromoform	Ave	0.2509	0.2105	0.1000	16.8	20.0	-16.1	20.0
Amyl acetate (mixed isomers)	Ave	1.005	0.8353		16.6	20.0	-16.9	20.0
Isopropylbenzene	Ave	1.533	1.405	0.1000	18.3	20.0	-8.4	20.0
Bromobenzene	Ave	0.8590	0.7685		17.9	20.0	-10.5	20.0
1,2,3-Trichloropropane	Ave	0.2098	0.1941		18.5	20.0	-7.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7434	0.6595	0.3000	17.7	20.0	-11.3	20.0
trans-1,4-Dichloro-2-butene	Qua2		0.1614		17.9	20.0	-10.4	20.0
N-Propylbenzene	Ave	0.7588	0.7413		19.5	20.0	-2.3	20.0
2-Chlorotoluene	Ave	0.7372	0.6867		18.6	20.0	-6.8	20.0
4-Ethyltoluene	Ave	2.702	2.533		18.8	20.0	-6.2	20.0
4-Chlorotoluene	Ave	2.327	2.123		18.2	20.0	-8.8	20.0
1,3,5-Trimethylbenzene	Ave	2.216	2.096		18.9	20.0	-5.4	20.0
Butyl Methacrylate	Ave	0.7970	0.7529		18.9	20.0	-5.5	20.0
tert-Butylbenzene	Ave	1.105	1.047		19.0	20.0	-5.2	20.0
1,2,4-Trimethylbenzene	Ave	2.365	2.224		18.8	20.0	-6.0	20.0
sec-Butylbenzene	Ave	2.647	2.503		18.9	20.0	-5.5	20.0
1,3-Dichlorobenzene	Ave	1.544	1.435	0.6000	18.6	20.0	-7.1	20.0
1,4-Dichlorobenzene	Ave	1.582	1.449	0.5000	18.3	20.0	-8.4	20.0
4-Isopropyltoluene	Ave	2.443	2.339		19.1	20.0	-4.3	20.0
Benzyl chloride	Ave	0.3066	0.2818		18.4	20.0	-8.1	20.0
Indan	Ave	2.613	2.451		18.8	20.0	-6.2	20.0
1,2-Dichlorobenzene	Ave	1.528	1.436	0.4000	18.8	20.0	-6.0	20.0
p-Diethylbenzene	Ave	1.295	1.208		18.7	20.0	-6.7	20.0
n-Butylbenzene	Ave	1.182	1.118		18.9	20.0	-5.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1390	0.1250	0.0500	18.0	20.0	-10.1	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.378	2.277		19.2	20.0	-4.2	20.0
1,3,5-Trichlorobenzene	Ave	1.187	1.124		18.9	20.0	-5.3	20.0
1,2,4-Trichlorobenzene	Ave	1.087	0.9882	0.2000	18.2	20.0	-9.1	20.0
Hexachlorobutadiene	Ave	0.3718	0.3641		19.6	20.0	-2.0	20.0
Naphthalene	Ave	2.475	2.355		19.0	20.0	-4.8	20.0
1,2,3-Trichlorobenzene	Ave	1.021	0.9457		18.5	20.0	-7.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2566	0.2532		49.3	50.0	-1.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2695	0.2662		49.4	50.0	-1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-576213/3 Calibration Date: 12/16/2018 07:13

Instrument ID: CVOAMS2 Calib Start Date: 12/13/2018 23:23

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 12/14/2018 09:53

Lab File ID: B38639.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
Toluene-d8 (Surr)	Ave	1.177	1.173		49.8	50.0	-0.3	20.0
4-Bromofluorobenzene	Ave	0.4540	0.4590		50.6	50.0	1.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38639.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Dec-2018 07:13:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0083648-003
Operator ID: Instrument ID: CVOAMS2
Sublist: chrom-8260W_2*sub60

Method: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 17-Dec-2018 10:55:40 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: delpolitov Date: 17-Dec-2018 10:55:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.776	0.776	0.000	88	13087	20.0	16.7	
2 Dichlorodifluoromethane	85	0.799	0.799	0.000	98	71726	20.0	26.2	
3 Chloromethane	50	0.879	0.879	0.000	97	78589	20.0	20.7	
4 Butadiene	54	0.913	0.913	0.000	90	49441	20.0	19.1	
5 Vinyl chloride	62	0.936	0.936	0.000	98	61355	20.0	21.4	
6 Bromomethane	94	1.073	1.073	0.000	98	46428	20.0	21.0	
7 Chloroethane	64	1.107	1.107	0.000	99	33846	20.0	20.7	
9 Dichlorofluoromethane	67	1.233	1.233	0.000	98	93856	20.0	21.2	
8 Trichlorofluoromethane	101	1.267	1.267	0.000	95	73942	20.0	22.8	
10 Pentane	72	1.279	1.279	0.000	96	11021	40.0	37.0	
12 Ethyl ether	59	1.382	1.382	0.000	89	30453	20.0	17.7	
11 Ethanol	46	1.370	1.370	0.000	79	6946	800.0	785.4	
13 2-Methyl-1,3-butadiene	53	1.393	1.393	0.000	84	29449	20.0	17.1	
14 1,2-Dichloro-1,1,2-trifluo	117	1.416	1.416	0.000	88	36315	20.0	18.9	
15 Acrolein	56	1.462	1.462	0.000	91	8013	40.0	21.8	
16 1,1-Dichloroethene	96	1.519	1.519	0.000	97	38474	20.0	18.3	
17 1,1,2-Trichloro-1,2,2-trif	101	1.542	1.542	0.000	85	36929	20.0	19.9	
18 Acetone	43	1.553	1.553	0.000	87	53861	100.0	88.1	
19 Iodomethane	142	1.610	1.610	0.000	96	84438	20.0	18.0	
20 Carbon disulfide	76	1.644	1.644	0.000	99	128939	20.0	16.0	
21 Isopropyl alcohol	45	1.667	1.667	0.000	97	21802	200.0	161.7	
22 3-Chloro-1-propene	76	1.724	1.724	0.000	87	23779	20.0	16.4	
25 Acetonitrile	41	1.736	1.736	0.000	82	105873	200.0	163.9	
24 Methyl acetate	43	1.747	1.747	0.000	99	47822	40.0	34.0	
23 Cyclopentene	67	1.782	1.782	0.000	93	85467	20.0	17.1	
26 Methylene Chloride	84	1.816	1.816	0.000	84	47387	20.0	17.6	
* 27 TBA-d9 (IS)	65	1.884	1.884	0.000	0	194098	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.930	1.930	0.000	91	42393	200.0	176.8	
31 Acrylonitrile	53	1.976	1.976	0.000	95	136545	200.0	167.8	
30 trans-1,2-Dichloroethene	96	1.987	1.987	0.000	90	44130	20.0	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Methyl tert-butyl ether	73	2.010	2.010	0.000	96	115184	20.0	17.8	
32 Hexane	43	2.193	2.193	0.000	90	22467	20.0	16.0	
34 1,1-Dichloroethane	63	2.296	2.296	0.000	99	67892	20.0	17.2	
35 Vinyl acetate	86	2.353	2.353	0.000	100	15807	40.0	34.8	
36 2-Chloro-1,3-butadiene	88	2.365	2.365	0.000	90	38151	20.0	18.9	
33 Isopropyl ether	45	2.387	2.387	0.000	84	113764	20.0	16.7	
37 Tert-butyl ethyl ether	87	2.673	2.673	0.000	88	51487	20.0	18.7	
* 39 2-Butanone-d5	46	2.730	2.730	0.000	0	186472	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.765	2.765	0.000	99	49926	20.0	17.9	
38 2,2-Dichloropropane	41	2.765	2.765	0.000	87	36935	20.0	17.4	
41 2-Butanone (MEK)	72	2.787	2.787	0.000	96	23682	100.0	94.9	
44 Propionitrile	54	2.833	2.833	0.000	95	51306	200.0	172.0	
42 Ethyl acetate	70	2.867	2.867	0.000	99	8928	40.0	39.0	
43 Methyl acrylate	85	2.879	2.879	0.000	98	6262	20.0	16.3	
47 Methacrylonitrile	67	2.970	2.970	0.000	90	166467	200.0	177.0	
46 Chlorobromomethane	128	2.959	2.959	0.000	77	25742	20.0	17.2	
45 Tetrahydrofuran	72	3.016	3.016	0.000	90	10000	40.0	35.4	
48 Chloroform	83	3.062	3.062	0.000	99	72235	20.0	18.0	
$ 51 Dibromofluoromethane (Surr	113	3.210	3.210	0.000	98	105822	50.0	49.3	
50 1,1,1-Trichloroethane	97	3.210	3.210	0.000	97	64845	20.0	19.4	
49 Cyclohexane	84	3.267	3.267	0.000	88	56304	20.0	18.2	
53 1,1-Dichloropropene	75	3.370	3.370	0.000	98	50178	20.0	17.3	
52 Carbon tetrachloride	117	3.370	3.370	0.000	96	51282	20.0	18.7	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	57	111253	50.0	49.4	
56 Isobutyl alcohol	74	3.565	3.565	0.000	92	12351	500.0	447.7	
55 Benzene	78	3.565	3.565	0.000	95	160802	20.0	17.1	
60 1,2-Dichloroethane	62	3.599	3.599	0.000	97	54255	20.0	17.7	
54 Isooctane	57	3.702	3.702	0.000	94	96325	20.0	18.0	
59 Tert-amyl methyl ether	73	3.748	3.748	0.000	80	131430	20.0	17.1	
61 Isopropyl acetate	61	3.748	3.748	0.000	90	14211	20.0	16.8	
* 63 Fluorobenzene	96	3.885	3.885	0.000	99	417905	50.0	50.0	
62 n-Heptane	43	3.930	3.930	0.000	89	36870	20.0	17.2	
64 Trichloroethene	95	4.308	4.308	0.000	95	42367	20.0	18.6	
65 n-Butanol	43	4.388	4.388	0.000	87	12164	500.0	443.2	
67 Ethyl acrylate	55	4.525	4.525	0.000	96	90409	20.0	17.5	
66 Methylcyclohexane	83	4.525	4.525	0.000	79	62592	20.0	18.3	
69 1,2-Dichloropropane	63	4.559	4.559	0.000	92	40133	20.0	18.1	
72 Dibromomethane	93	4.708	4.708	0.000	51	27056	20.0	17.7	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	95	20813	1000.0	1000.0	
73 1,4-Dioxane	88	4.776	4.776	0.000	87	9171	400.0	359.3	
71 Methyl methacrylate	100	4.822	4.822	0.000	88	24742	40.0	37.4	
74 n-Propyl acetate	43	4.936	4.936	0.000	98	49985	20.0	17.6	
75 Dichlorobromomethane	83	4.948	4.948	0.000	99	52566	20.0	17.6	
76 2-Nitropropane	41	5.268	5.268	0.000	97	18866	40.0	39.5	
77 2-Chloroethyl vinyl ether	63	5.439	5.439	0.000	93	30755	20.0	18.4	
78 Epichlorohydrin	62	5.473	5.473	0.000	99	20546	400.0	422.3	
79 cis-1,3-Dichloropropene	75	5.576	5.576	0.000	91	63204	20.0	17.2	
80 4-Methyl-2-pentanone (MIBK	43	5.873	5.873	0.000	94	176144	100.0	91.6	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	99	420838	50.0	49.8	
82 Toluene	91	6.045	6.045	0.000	93	182819	20.0	17.8	
83 trans-1,3-Dichloropropene	75	6.456	6.456	0.000	96	63805	20.0	18.9	
84 Ethyl methacrylate	69	6.719	6.719	0.000	81	55056	20.0	18.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 1,1,2-Trichloroethane	83	6.719	6.719	0.000	84	34323	20.0	18.3	
85 Tetrachloroethene	166	6.879	6.879	0.000	97	51897	20.0	18.7	
87 1,3-Dichloropropane	76	6.971	6.971	0.000	92	66266	20.0	18.5	
88 2-Hexanone	43	7.245	7.245	0.000	93	123591	100.0	94.5	
89 Chlorodibromomethane	129	7.325	7.325	0.000	98	44898	20.0	17.9	
91 Ethylene Dibromide	107	7.439	7.439	0.000	99	44564	20.0	17.9	
90 n-Butyl acetate	73	7.565	7.565	0.000	97	10718	20.0	17.6	
* 92 Chlorobenzene-d5	117	8.319	8.319	0.000	83	358738	50.0	50.0	
93 Chlorobenzene	112	8.365	8.365	0.000	97	130597	20.0	18.1	
95 1,1,1,2-Tetrachloroethane	131	8.571	8.571	0.000	97	41286	20.0	17.0	
94 Ethylbenzene	106	8.651	8.651	0.000	97	68104	20.0	18.2	
96 m-Xylene & p-Xylene	106	8.879	8.879	0.000	0	83876	20.0	18.5	
97 o-Xylene	106	9.554	9.554	0.000	94	81262	20.0	18.1	
99 Styrene	104	9.600	9.600	0.000	97	142072	20.0	18.2	
98 n-Butyl acrylate	73	9.748	9.748	0.000	97	30976	20.0	16.2	
100 Bromoform	173	9.828	9.828	0.000	98	30203	20.0	16.8	
101 Amyl acetate (mixed isomer	43	10.182	10.182	0.000	92	67418	20.0	16.6	
102 Isopropylbenzene	105	10.240	10.240	0.000	95	201554	20.0	18.3	
$ 103 4-Bromofluorobenzene	174	10.434	10.434	0.000	96	164667	50.0	50.6	
104 Bromobenzene	156	10.605	10.605	0.000	89	62029	20.0	17.9	
107 1,2,3-Trichloropropane	110	10.800	10.800	0.000	97	15668	20.0	18.5	
105 1,1,2,2-Tetrachloroethane	83	10.811	10.811	0.000	96	53232	20.0	17.7	
108 trans-1,4-Dichloro-2-buten	53	10.903	10.903	0.000	86	13023	20.0	17.9	
106 N-Propylbenzene	120	10.925	10.925	0.000	100	59830	20.0	19.5	
109 2-Chlorotoluene	126	10.983	10.983	0.000	95	55428	20.0	18.6	a
110 4-Ethyltoluene	105	11.131	11.131	0.000	98	204445	20.0	18.8	
112 4-Chlorotoluene	91	11.177	11.177	0.000	96	171337	20.0	18.2	
111 1,3,5-Trimethylbenzene	105	11.257	11.257	0.000	93	169205	20.0	18.9	
113 Butyl Methacrylate	87	11.588	11.588	0.000	86	60766	20.0	18.9	
114 tert-Butylbenzene	91	11.760	11.760	0.000	95	84493	20.0	19.0	
115 1,2,4-Trimethylbenzene	105	11.851	11.851	0.000	96	179508	20.0	18.8	
116 sec-Butylbenzene	105	12.160	12.160	0.000	99	202008	20.0	18.9	
117 1,3-Dichlorobenzene	146	12.240	12.240	0.000	99	115796	20.0	18.6	
* 119 1,4-Dichlorobenzene-d4	152	12.388	12.388	0.000	93	201781	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.434	12.434	0.000	97	116944	20.0	18.3	
118 4-Isopropyltoluene	119	12.503	12.503	0.000	98	188812	20.0	19.1	
121 1,2,3-Trimethylbenzene	105	12.606	12.606	0.000	98	195770	NC	NC	
122 Benzyl chloride	126	12.731	12.731	0.000	100	22745	20.0	18.4	
123 2,3-Dihydroindene	117	12.857	12.857	0.000	94	197865	20.0	18.8	
126 1,2-Dichlorobenzene	146	12.983	12.983	0.000	98	115909	20.0	18.8	
124 p-Diethylbenzene	105	13.063	13.063	0.000	94	97481	20.0	18.7	
125 n-Butylbenzene	92	13.086	13.086	0.000	97	90213	20.0	18.9	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	91	10089	20.0	18.0	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	183795	20.0	19.2	
129 1,3,5-Trichlorobenzene	180	13.851	13.851	0.000	96	90733	20.0	18.9	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	94	79757	20.0	18.2	
132 Naphthalene	128	14.377	14.377	0.000	99	190112	20.0	19.0	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	97	29391	20.0	19.6	
133 1,2,3-Trichlorobenzene	180	14.514	14.514	0.000	95	76327	20.0	18.5	
S 134 1,2-Dichloroethene, Total	100				0		40.0	36.1	
S 135 Xylenes, Total	100				0		40.0	36.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00291	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00091	Amount Added:	20.00	Units: uL	
ACROLEIN W_00084	Amount Added:	4.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 17-Dec-2018 10:55:44 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38639.D

Injection Date: 16-Dec-2018 07:13:30 Instrument ID: CVOAMS2 Operator ID:

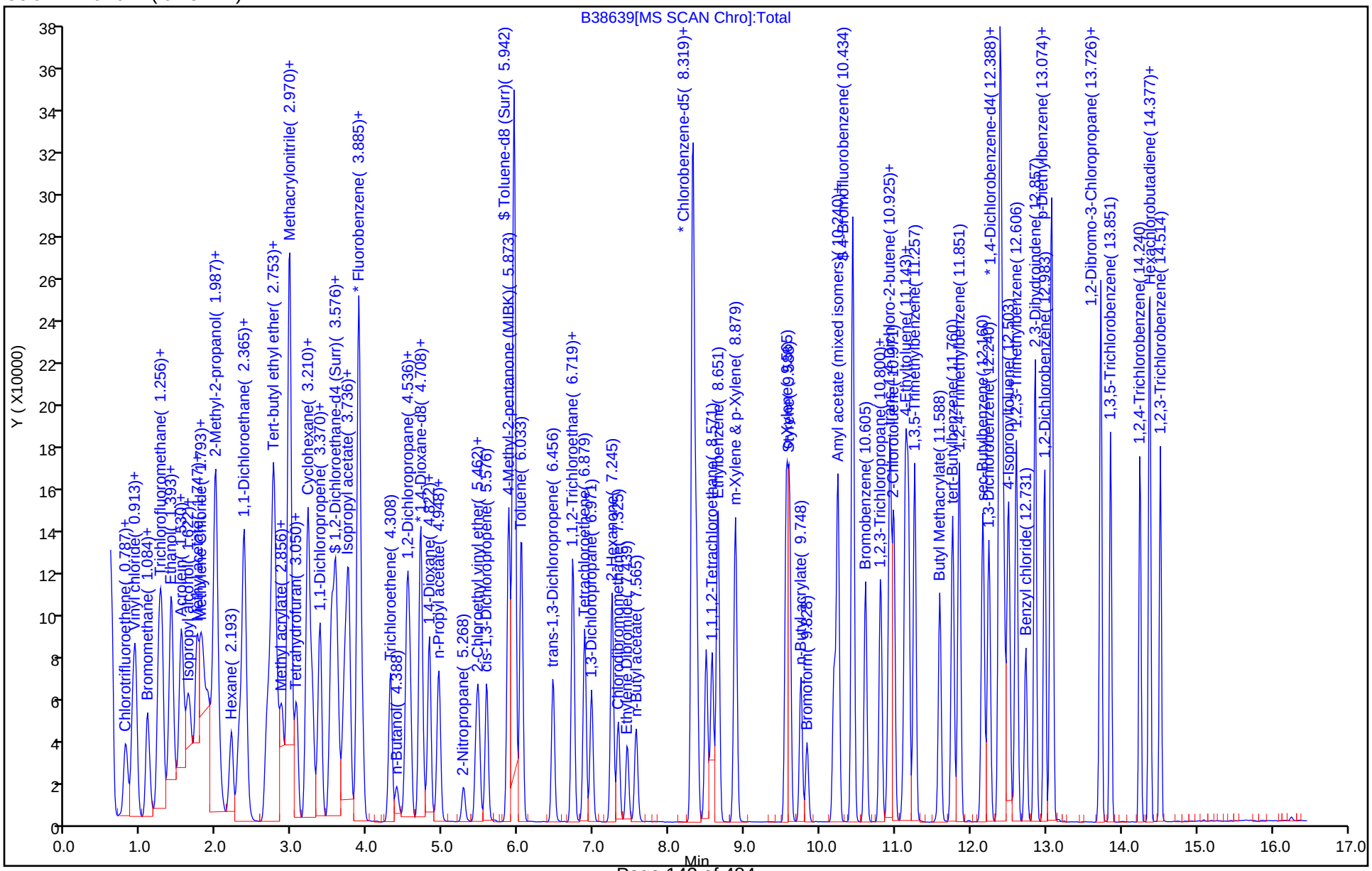
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38541.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	13-Dec-2018 22:00:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0083531-001				
Operator ID:		Instrument ID:	CVOAMS2		
Method:	\\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\8260W_2.m				
Limit Group:	VOA - 8260C DKQP Water and Solid				
Last Update:	16-Dec-2018 16:56:38	Calib Date:	14-Dec-2018 09:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0303				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 136 BFB	95	1.958	1.958	0.000	95	42366	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

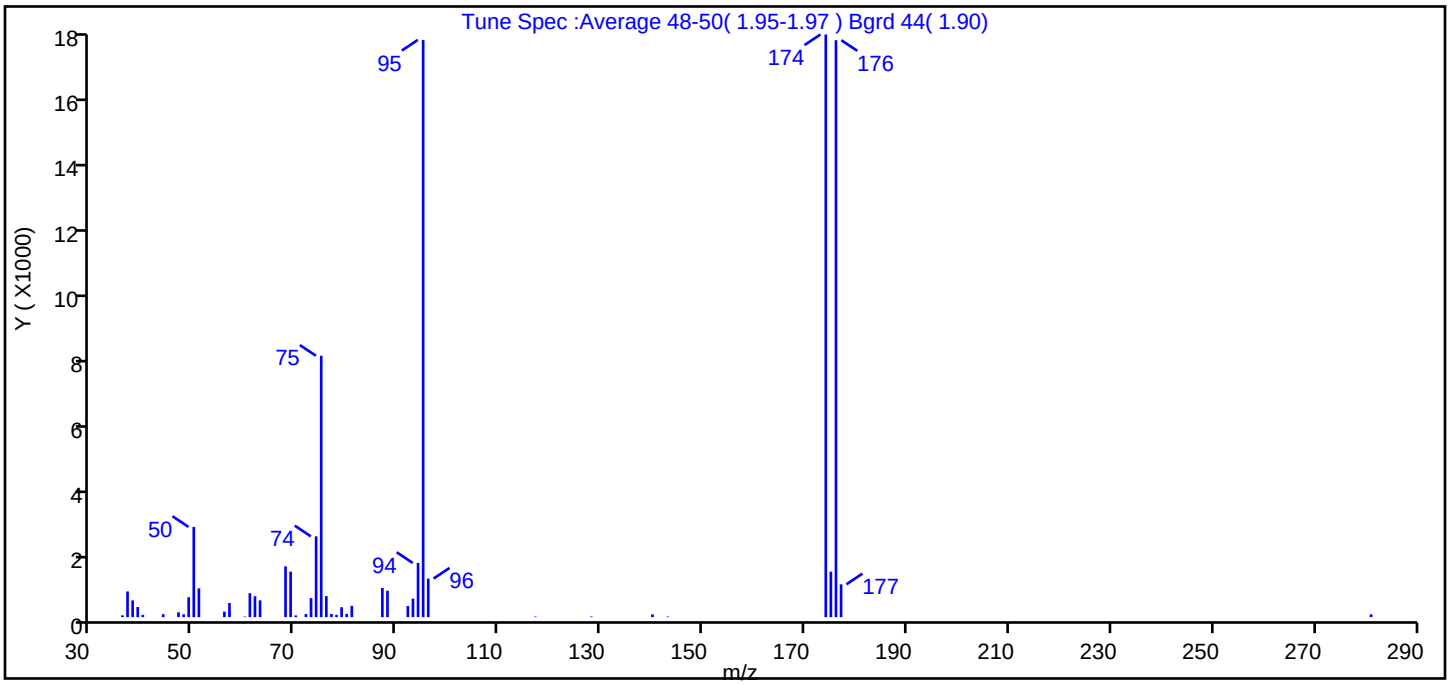
BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38541.D
Injection Date: 13-Dec-2018 22:00:30 Instrument ID: CVOAMS2
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid
Tune Method: BFB Method 8260

$ 136 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	45.3
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	100.9
175	5 to 9% of m/z 174	7.9 (7.8)
176	Greater than 95% but less than 101% of m/z 174	100.0 (99.0)
177	5 to 9% of m/z 176	5.7 (5.7)

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38541.D\8260W_2.rslt\spectra.d
Injection Date: 13-Dec-2018 22:00:30
Spectrum: Tune Spec :Average 48-50(1.95-1.97) Bgrd 44(1.90)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	53	57.00	416	76.00	619	96.00	1134
37.00	756	60.00	17	77.00	92	117.00	17
38.00	492	61.00	705	78.00	67	128.00	18
39.00	298	62.00	617	79.00	292	140.00	81
40.00	67	63.00	494	80.00	96	143.00	17
44.00	87	68.00	1494	81.00	332	174.00	17136
47.00	143	69.00	1337	87.00	859	175.00	1340
48.00	83	70.00	50	88.00	776	176.00	16968
49.00	586	72.00	90	92.00	326	177.00	966
50.00	2654	73.00	559	93.00	545	281.00	83
51.00	847	74.00	2377	94.00	1594		
56.00	162	75.00	7688	95.00	16976		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38637.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Dec-2018 06:15:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0083648-001
Operator ID: Instrument ID: CVOAMS2

Method: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 16-Dec-2018 09:06:13 Calib Date: 14-Dec-2018 01:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38549.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0328

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 136 BFB	95	1.947	1.947	0.000	94	50980	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

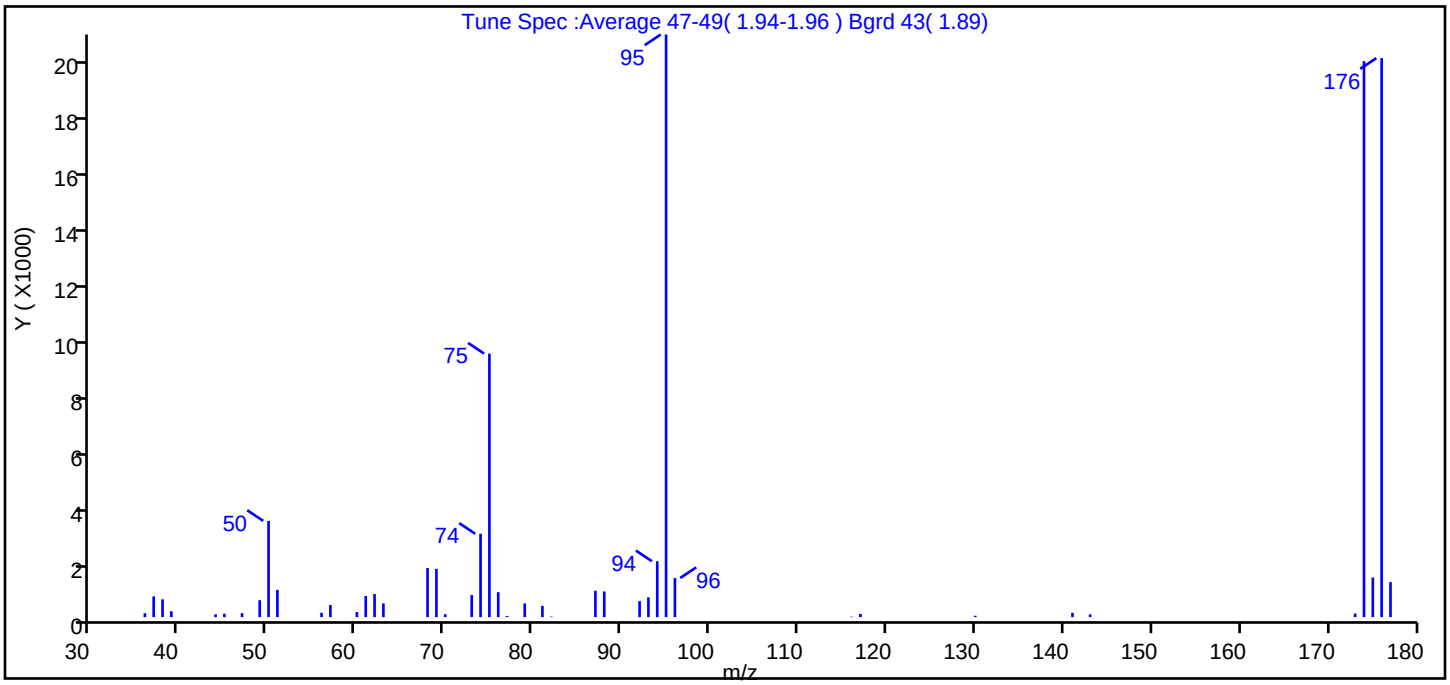
BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38637.D
Injection Date: 16-Dec-2018 06:15:30 Instrument ID: CVOAMS2
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid
Tune Method: BFB Method 8260

$ 136 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.5
75	30 to 60% of m/z 95	45.2
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.6 (0.6)
174	50 to 120% of m/z 95	95.4
175	5 to 9% of m/z 174	6.8 (7.1)
176	Greater than 95% but less than 101% of m/z 174	95.9 (100.5)
177	5 to 9% of m/z 176	6.0 (6.3)

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38637.D\8260W_2.rslt\spectra.d
Injection Date: 16-Dec-2018 06:15:30
Spectrum: Tune Spec :Average 47-49(1.94-1.96) Bgrd 43(1.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	137	57.00	422	76.00	871	96.00	1365
37.00	721	60.00	182	77.00	38	116.00	18
38.00	621	61.00	736	79.00	479	117.00	112
39.00	207	62.00	805	81.00	393	130.00	51
44.00	96	63.00	479	82.00	20	141.00	151
45.00	118	68.00	1713	87.00	921	143.00	98
47.00	139	69.00	1683	88.00	895	173.00	124
49.00	590	70.00	101	92.00	557	174.00	19376
50.00	3354	73.00	772	93.00	690	175.00	1380
51.00	950	74.00	2904	94.00	1948	176.00	19480
56.00	151	75.00	9184	95.00	20304	177.00	1221

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: MB 460-576213/8

Matrix: Water | Lab File ID: B38644.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 09:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.12	U	1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.76	U	1.0	0.76
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	2.9	U	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	5.0	2.7
67-64-1	Acetone	5.0	U	5.0	5.0
71-43-2	Benzene	0.43	U	1.0	0.43
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	1.0	U	1.0	1.0
74-97-5	Bromochloromethane	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.16	U	1.0	0.16
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.14	U	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Bromodichloromethane	0.34	U	1.0	0.34
110-82-7	Cyclohexane	0.32	U	1.0	0.32
124-48-1	Dibromochloromethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.12	U	1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: MB 460-576213/8

Matrix: Water | Lab File ID: B38644.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 09:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	0.50	U	1.0	0.50
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34
79-20-9	Methyl acetate	0.31	U	5.0	0.31
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.14	U	1.0	0.14
75-01-4	Vinyl chloride	0.17	U	1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: Lab Sample ID: MB 460-576213/8

Matrix: Water Lab File ID: B38644.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/16/2018 09:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 576213 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I-TIC 8260C

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38644.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Dec-2018 09:25:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0083648-008
Operator ID: Instrument ID: CVOAMS2

Method: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 17-Dec-2018 10:58:56 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: delpolitov Date: 17-Dec-2018 10:58:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	1.873	1.884	-0.011	0	201782	1000.0	1000.0	
* 39 2-Butanone-d5	46	2.730	2.730	0.000	0	195725	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.210	-0.011	98	103907	50.0	49.1	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	59	111060	50.0	50.0	
* 63 Fluorobenzene	96	3.885	3.885	0.000	99	412423	50.0	50.0	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	96	21294	1000.0	1000.0	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	99	406533	50.0	49.0	
* 92 Chlorobenzene-d5	117	8.308	8.319	-0.011	84	352697	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	10.434	10.434	0.000	98	154324	50.0	48.2	
* 119 1,4-Dichlorobenzene-d4	152	12.388	12.388	0.000	93	194123	50.0	50.0	

Reagents:

8260ISNEW_00092 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00188 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 17-Dec-2018 10:58:56 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38644.D

Injection Date: 16-Dec-2018 09:25:30 Instrument ID: CVOAMS2 Operator ID:

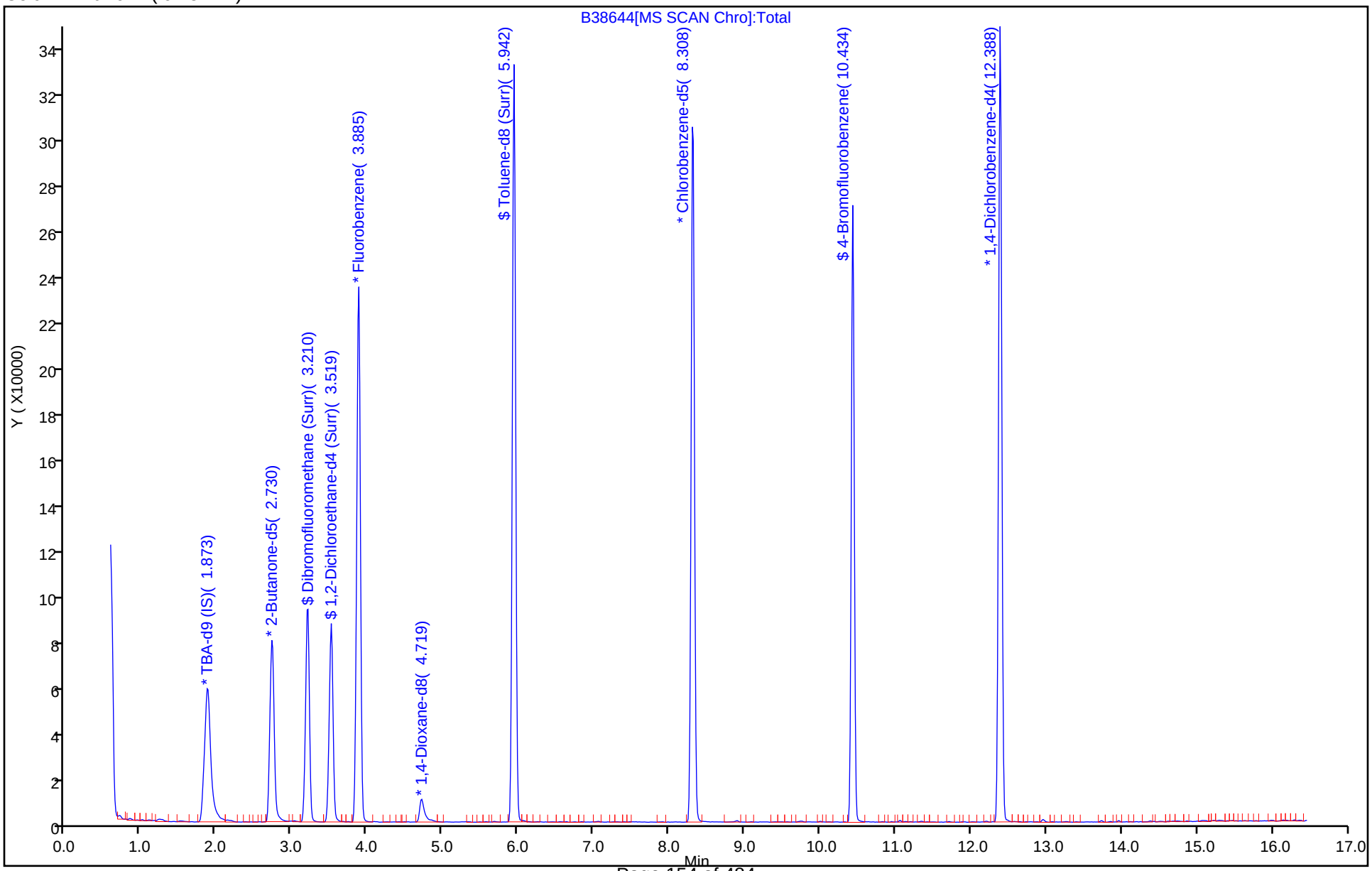
Lims ID: MB Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCS 460-576213/4

Matrix: Water | Lab File ID: B38640.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 07:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.7		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	20.3		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.9		1.0	0.43
75-34-3	1,1-Dichloroethane	20.0		1.0	0.26
75-35-4	1,1-Dichloroethene	20.6		1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	20.0		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	21.7		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.3		1.0	0.43
107-06-2	1,2-Dichloroethane	19.5		1.0	0.43
78-87-5	1,2-Dichloropropane	19.9		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.7		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.0		1.0	0.76
123-91-1	1,4-Dioxane	393		50	28
78-93-3	2-Butanone (MEK)	102		5.0	1.9
591-78-6	2-Hexanone	109		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	105		5.0	2.7
67-64-1	Acetone	102		5.0	5.0
71-43-2	Benzene	19.3		1.0	0.43
75-25-2	Bromoform	19.6		1.0	0.54
74-83-9	Bromomethane	23.2		1.0	1.0
74-97-5	Bromochloromethane	19.8		1.0	0.41
75-15-0	Carbon disulfide	18.3		1.0	0.16
56-23-5	Carbon tetrachloride	21.0		1.0	0.21
108-90-7	Chlorobenzene	20.2		1.0	0.38
75-00-3	Chloroethane	21.4		1.0	0.32
67-66-3	Chloroform	20.7		1.0	0.33
74-87-3	Chloromethane	21.7		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	20.2		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	19.9		1.0	0.46
75-27-4	Bromodichloromethane	19.5		1.0	0.34
110-82-7	Cyclohexane	20.6		1.0	0.32
124-48-1	Dibromochloromethane	20.7		1.0	0.28
75-71-8	Dichlorodifluoromethane	28.5		1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCS 460-576213/4

Matrix: Water | Lab File ID: B38640.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 07:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	19.9		1.0	0.50
100-41-4	Ethylbenzene	19.6		1.0	0.30
98-82-8	Isopropylbenzene	20.1		1.0	0.34
79-20-9	Methyl acetate	39.1		5.0	0.31
1634-04-4	Methyl tert-butyl ether	19.9		1.0	0.47
108-87-2	Methylcyclohexane	21.4		1.0	0.26
75-09-2	Methylene Chloride	19.5		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	20.2		1.0	0.30
95-47-6	o-Xylene	19.8		1.0	0.36
100-42-5	Styrene	20.8		1.0	0.42
127-18-4	Tetrachloroethene	20.5		1.0	0.25
108-88-3	Toluene	19.4		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.8		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	20.6		1.0	0.49
79-01-6	Trichloroethene	20.1		1.0	0.31
75-69-4	Trichlorofluoromethane	24.6		1.0	0.14
75-01-4	Vinyl chloride	22.6		1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38640.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Dec-2018 07:45:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0083648-004
Operator ID: Instrument ID: CVOAMS2

Method: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 17-Dec-2018 10:57:42 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: moroneyc Date: 16-Dec-2018 09:07:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.776	0.776	0.000	87	16252	20.0	21.0	
2 Dichlorodifluoromethane	85	0.799	0.799	0.000	98	77451	20.0	28.5	
3 Chloromethane	50	0.879	0.879	0.000	98	81693	20.0	21.7	
4 Butadiene	54	0.913	0.913	0.000	91	52023	20.0	20.3	
5 Vinyl chloride	62	0.936	0.936	0.000	98	64116	20.0	22.6	
6 Bromomethane	94	1.073	1.073	0.000	98	50815	20.0	23.2	
7 Chloroethane	64	1.108	1.108	0.000	100	34627	20.0	21.4	
9 Dichlorofluoromethane	67	1.233	1.233	0.000	99	95443	20.0	21.8	
8 Trichlorofluoromethane	101	1.268	1.268	0.000	93	79129	20.0	24.6	
10 Pentane	72	1.268	1.268	0.000	96	12321	40.0	40.1	
11 Ethanol	46	1.382	1.382	0.000	79	7813	800.0	856.1	
12 Ethyl ether	59	1.382	1.382	0.000	95	34730	20.0	20.3	
13 2-Methyl-1,3-butadiene	53	1.393	1.393	0.000	88	33260	20.0	19.5	
14 1,2-Dichloro-1,1,2-trifluo	117	1.416	1.416	0.000	91	38365	20.0	20.2	
15 Acrolein	56	1.462	1.462	0.000	90	10973	40.0	29.0	
16 1,1-Dichloroethene	96	1.519	1.519	0.000	97	43001	20.0	20.6	
17 1,1,2-Trichloro-1,2,2-trif	101	1.542	1.542	0.000	90	43266	20.0	23.5	
18 Acetone	43	1.542	1.542	0.000	91	61479	100.0	102.0	
19 Iodomethane	142	1.610	1.610	0.000	97	93984	20.0	20.2	
20 Carbon disulfide	76	1.645	1.645	0.000	98	145727	20.0	18.3	
21 Isopropyl alcohol	45	1.656	1.656	0.000	30	25660	200.0	184.4	
22 3-Chloro-1-propene	76	1.725	1.725	0.000	89	27352	20.0	19.1	
25 Acetonitrile	41	1.736	1.736	0.000	81	119905	200.0	187.3	
24 Methyl acetate	43	1.748	1.748	0.000	99	54462	40.0	39.1	
23 Cyclopentene	67	1.782	1.782	0.000	92	98378	20.0	19.9	
26 Methylene Chloride	84	1.816	1.816	0.000	85	52215	20.0	19.5	
* 27 TBA-d9 (IS)	65	1.885	1.885	0.000	0	200282	1000.0	1000.0	
28 2-Methyl-2-propanol	59	1.930	1.930	0.000	91	46835	200.0	189.3	
31 Acrylonitrile	53	1.976	1.976	0.000	93	157895	200.0	196.1	
30 trans-1,2-Dichloroethene	96	1.988	1.988	0.000	92	49775	20.0	20.8	
29 Methyl tert-butyl ether	73	2.010	2.010	0.000	96	127192	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	2.193	2.193	0.000	91	27771	20.0	20.0	
34 1,1-Dichloroethane	63	2.296	2.296	0.000	99	78368	20.0	20.0	
35 Vinyl acetate	86	2.342	2.342	0.000	100	17580	40.0	37.5	
36 2-Chloro-1,3-butadiene	88	2.353	2.353	0.000	90	42573	20.0	21.3	
33 Isopropyl ether	45	2.376	2.376	0.000	84	127130	20.0	18.8	
37 Tert-butyl ethyl ether	87	2.673	2.673	0.000	94	58079	20.0	21.3	
* 39 2-Butanone-d5	46	2.731	2.731	0.000	0	183867	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.753	2.753	0.000	99	55891	20.0	20.2	
38 2,2-Dichloropropane	41	2.765	2.765	0.000	87	37205	20.0	17.7	
41 2-Butanone (MEK)	72	2.776	2.776	0.000	95	25206	100.0	102.5	
44 Propionitrile	54	2.822	2.822	0.000	95	60822	200.0	197.6	
42 Ethyl acetate	70	2.856	2.856	0.000	99	9256	40.0	41.0	
43 Methyl acrylate	85	2.879	2.879	0.000	99	7113	20.0	18.7	
46 Chlorobromomethane	128	2.959	2.959	0.000	50	29410	20.0	19.8	
47 Methacrylonitrile	67	2.959	2.959	0.000	92	188194	200.0	202.0	
45 Tetrahydrofuran	72	3.005	3.005	0.000	91	11579	40.0	41.6	
48 Chloroform	83	3.062	3.062	0.000	99	81971	20.0	20.7	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.199	0.000	99	108564	50.0	51.1	
50 1,1,1-Trichloroethane	97	3.222	3.222	0.000	97	68679	20.0	20.7	
49 Cyclohexane	84	3.268	3.268	0.000	88	63041	20.0	20.6	
53 1,1-Dichloropropene	75	3.359	3.359	0.000	96	56181	20.0	19.6	
52 Carbon tetrachloride	117	3.371	3.371	0.000	97	57232	20.0	21.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	60	111064	50.0	49.8	
56 Isobutyl alcohol	74	3.565	3.565	0.000	95	13003	500.0	456.5	
55 Benzene	78	3.565	3.565	0.000	96	181399	20.0	19.3	
60 1,2-Dichloroethane	62	3.599	3.599	0.000	98	59155	20.0	19.5	
54 Isooctane	57	3.702	3.702	0.000	95	110566	20.0	20.9	
59 Tert-amyl methyl ether	73	3.748	3.748	0.000	80	152104	20.0	20.0	
61 Isopropyl acetate	61	3.748	3.748	0.000	90	16306	20.0	19.5	
* 63 Fluorobenzene	96	3.885	3.885	0.000	99	414028	50.0	50.0	
62 n-Heptane	43	3.931	3.931	0.000	90	41880	20.0	19.7	
64 Trichloroethene	95	4.296	4.296	0.000	94	45298	20.0	20.1	
65 n-Butanol	43	4.376	4.376	0.000	88	12882	500.0	454.9	
67 Ethyl acrylate	55	4.525	4.525	0.000	97	102254	20.0	20.0	
66 Methylcyclohexane	83	4.525	4.525	0.000	78	72373	20.0	21.4	
69 1,2-Dichloropropane	63	4.559	4.559	0.000	91	43662	20.0	19.9	
72 Dibromomethane	93	4.696	4.696	0.000	91	29872	20.0	19.7	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	63	23169	1000.0	1000.0	
73 1,4-Dioxane	88	4.776	4.776	0.000	79	11176	400.0	393.3	
71 Methyl methacrylate	100	4.822	4.822	0.000	85	26521	40.0	40.5	
74 n-Propyl acetate	43	4.936	4.936	0.000	98	52993	20.0	18.8	
75 Dichlorobromomethane	83	4.948	4.948	0.000	99	57560	20.0	19.5	
76 2-Nitropropane	41	5.268	5.268	0.000	96	19781	40.0	41.8	
77 2-Chloroethyl vinyl ether	63	5.439	5.439	0.000	92	34843	20.0	21.1	
78 Epichlorohydrin	62	5.462	5.462	0.000	99	22565	400.0	470.4	
79 cis-1,3-Dichloropropene	75	5.577	5.577	0.000	91	72754	20.0	19.9	
80 4-Methyl-2-pentanone (MIBK	43	5.874	5.874	0.000	94	199281	100.0	105.1	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	98	416994	50.0	49.5	
82 Toluene	91	6.034	6.034	0.000	93	198684	20.0	19.4	
83 trans-1,3-Dichloropropene	75	6.457	6.457	0.000	97	69518	20.0	20.6	
84 Ethyl methacrylate	69	6.720	6.720	0.000	86	58880	20.0	19.7	
86 1,1,2-Trichloroethane	83	6.720	6.720	0.000	95	37416	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrachloroethene	166	6.880	6.880	0.000	97	56874	20.0	20.5	
87 1,3-Dichloropropane	76	6.971	6.971	0.000	93	70909	20.0	19.8	
88 2-Hexanone	43	7.245	7.245	0.000	94	140481	100.0	108.9	
89 Chlorodibromomethane	129	7.325	7.325	0.000	98	51788	20.0	20.7	
91 Ethylene Dibromide	107	7.440	7.440	0.000	99	49649	20.0	19.9	
90 n-Butyl acetate	73	7.565	7.565	0.000	98	13561	20.0	22.3	
* 92 Chlorobenzene-d5	117	8.308	8.308	0.000	84	358271	50.0	50.0	
93 Chlorobenzene	112	8.365	8.365	0.000	97	145581	20.0	20.2	
95 1,1,1,2-Tetrachloroethane	131	8.571	8.571	0.000	97	46884	20.0	19.4	
94 Ethylbenzene	106	8.651	8.651	0.000	98	73126	20.0	19.6	
96 m-Xylene & p-Xylene	106	8.880	8.880	0.000	0	91838	20.0	20.2	
97 o-Xylene	106	9.554	9.554	0.000	96	88658	20.0	19.8	
99 Styrene	104	9.600	9.600	0.000	98	162208	20.0	20.8	
98 n-Butyl acrylate	73	9.748	9.748	0.000	98	36073	20.0	18.9	
100 Bromoform	173	9.828	9.828	0.000	98	35208	20.0	19.6	
101 Amyl acetate (mixed isomer	43	10.183	10.183	0.000	92	79048	20.0	19.0	
102 Isopropylbenzene	105	10.240	10.240	0.000	95	221157	20.0	20.1	
$ 103 4-Bromofluorobenzene	174	10.434	10.434	0.000	97	164990	50.0	50.7	
104 Bromobenzene	156	10.606	10.606	0.000	89	72332	20.0	20.4	
107 1,2,3-Trichloropropane	110	10.800	10.800	0.000	97	18231	20.0	21.0	
105 1,1,2,2-Tetrachloroethane	83	10.811	10.811	0.000	98	62471	20.0	20.3	
108 trans-1,4-Dichloro-2-buten	53	10.903	10.903	0.000	89	14046	20.0	18.9	
106 N-Propylbenzene	120	10.926	10.926	0.000	100	65564	20.0	20.9	
109 2-Chlorotoluene	126	10.983	10.983	0.000	95	61088	20.0	20.1	a
110 4-Ethyltoluene	105	11.131	11.131	0.000	98	231580	20.0	20.7	
112 4-Chlorotoluene	91	11.177	11.177	0.000	95	193377	20.0	20.1	
111 1,3,5-Trimethylbenzene	105	11.257	11.257	0.000	94	190148	20.0	20.8	
113 Butyl Methacrylate	87	11.589	11.589	0.000	88	67927	20.0	20.6	
114 tert-Butylbenzene	91	11.760	11.760	0.000	95	90130	20.0	19.7	
115 1,2,4-Trimethylbenzene	105	11.851	11.851	0.000	96	200380	20.0	20.5	
116 sec-Butylbenzene	105	12.160	12.160	0.000	99	231972	20.0	21.2	
117 1,3-Dichlorobenzene	146	12.240	12.240	0.000	99	131915	20.0	20.7	
* 119 1,4-Dichlorobenzene-d4	152	12.389	12.389	0.000	93	206593	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.434	12.434	0.000	97	130607	20.0	20.0	
118 4-Isopropyltoluene	119	12.503	12.503	0.000	98	210163	20.0	20.8	
121 1,2,3-Trimethylbenzene	105	12.606	12.606	0.000	97	216081	NC	NC	
122 Benzyl chloride	126	12.732	12.732	0.000	100	26014	20.0	20.5	
123 2,3-Dihydroindene	117	12.857	12.857	0.000	94	224179	20.0	20.8	
126 1,2-Dichlorobenzene	146	12.983	12.983	0.000	99	127880	20.0	20.3	
124 p-Diethylbenzene	105	13.063	13.063	0.000	94	107177	20.0	20.0	
125 n-Butylbenzene	92	13.086	13.086	0.000	97	100231	20.0	20.5	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	89	11755	20.0	20.5	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	213868	20.0	21.8	
129 1,3,5-Trichlorobenzene	180	13.852	13.852	0.000	97	102154	20.0	20.8	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	93	97510	20.0	21.7	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	98	33867	20.0	22.0	
132 Naphthalene	128	14.366	14.366	0.000	99	214009	20.0	20.9	
133 1,2,3-Trichlorobenzene	180	14.515	14.515	0.000	96	84460	20.0	20.0	
S 134 1,2-Dichloroethene, Total	100				0		40.0	41.0	
S 135 Xylenes, Total	100				0		40.0	40.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00291	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00091	Amount Added:	20.00	Units: uL	
ACROLEIN W_00084	Amount Added:	4.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 17-Dec-2018 10:57:44 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38640.D

Injection Date: 16-Dec-2018 07:45:30 Instrument ID: CVOAMS2 Operator ID:

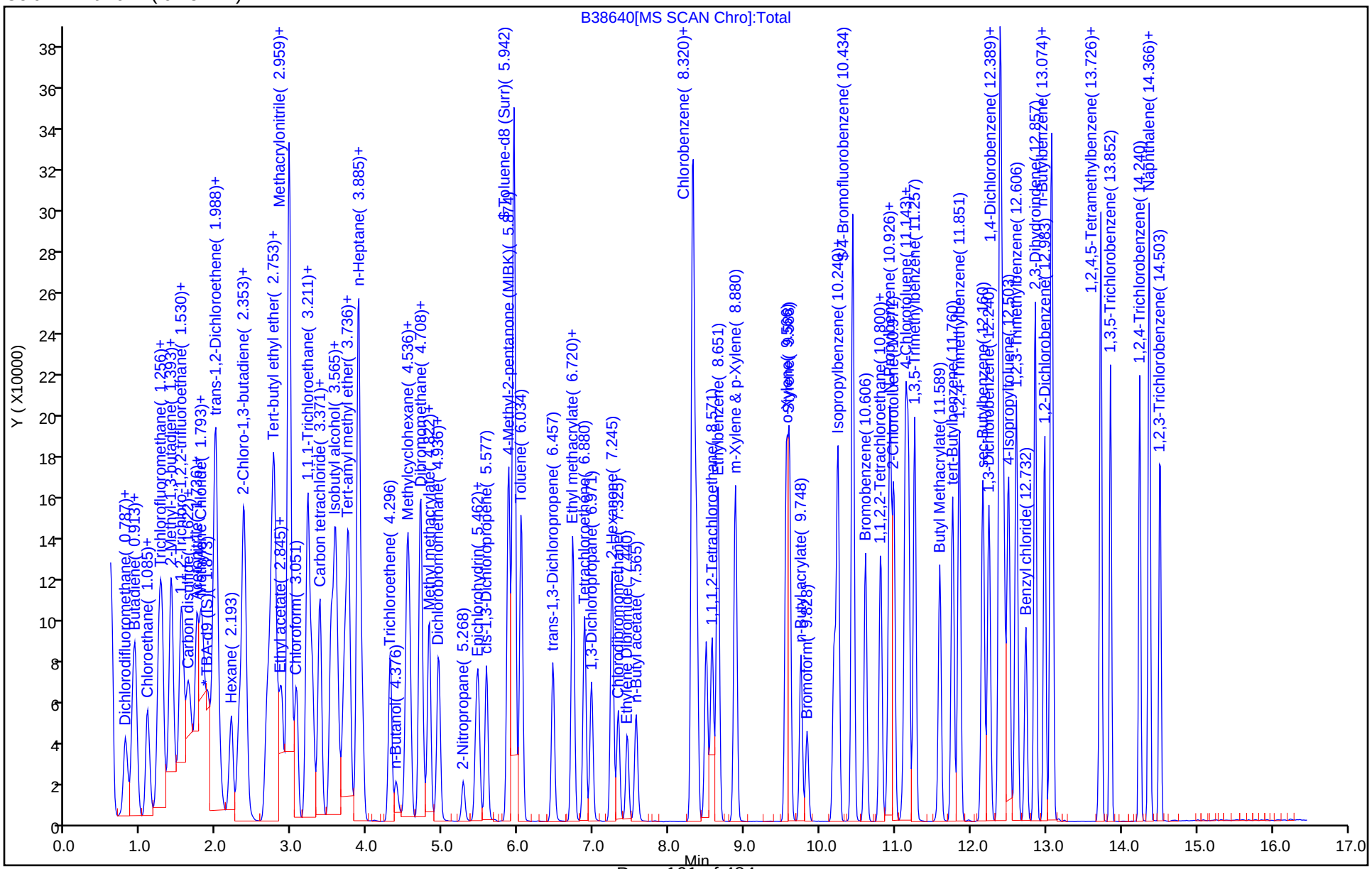
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: Lab Sample ID: LCSD 460-576213/21

Matrix: Water Lab File ID: B38657.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/16/2018 14:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 576213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.0		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	17.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	18.0		1.0	0.43
75-34-3	1,1-Dichloroethane	18.6		1.0	0.26
75-35-4	1,1-Dichloroethene	19.6		1.0	0.12
87-61-6	1,2,3-Trichlorobenzene	19.8		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	18.9		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		1.0	0.38
95-50-1	1,2-Dichlorobenzene	18.6		1.0	0.43
107-06-2	1,2-Dichloroethane	18.3		1.0	0.43
78-87-5	1,2-Dichloropropane	18.5		1.0	0.35
541-73-1	1,3-Dichlorobenzene	18.2		1.0	0.34
106-46-7	1,4-Dichlorobenzene	18.6		1.0	0.76
123-91-1	1,4-Dioxane	425		50	28
78-93-3	2-Butanone (MEK)	94.5		5.0	1.9
591-78-6	2-Hexanone	96.6		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	94.9		5.0	2.7
67-64-1	Acetone	86.3		5.0	5.0
71-43-2	Benzene	17.1		1.0	0.43
75-25-2	Bromoform	18.6		1.0	0.54
74-83-9	Bromomethane	21.4		1.0	1.0
74-97-5	Bromochloromethane	18.0		1.0	0.41
75-15-0	Carbon disulfide	19.6		1.0	0.16
56-23-5	Carbon tetrachloride	20.7		1.0	0.21
108-90-7	Chlorobenzene	18.1		1.0	0.38
75-00-3	Chloroethane	20.1		1.0	0.32
67-66-3	Chloroform	18.7		1.0	0.33
74-87-3	Chloromethane	18.9		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	18.5		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	17.5		1.0	0.46
75-27-4	Bromodichloromethane	18.9		1.0	0.34
110-82-7	Cyclohexane	19.3		1.0	0.32
124-48-1	Dibromochloromethane	18.7		1.0	0.28
75-71-8	Dichlorodifluoromethane	22.3		1.0	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCSD 460-576213/21

Matrix: Water | Lab File ID: B38657.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/16/2018 14:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 576213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	18.1		1.0	0.50
100-41-4	Ethylbenzene	17.8		1.0	0.30
98-82-8	Isopropylbenzene	18.5		1.0	0.34
79-20-9	Methyl acetate	36.7		5.0	0.31
1634-04-4	Methyl tert-butyl ether	19.1		1.0	0.47
108-87-2	Methylcyclohexane	19.5		1.0	0.26
75-09-2	Methylene Chloride	18.9		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	18.3		1.0	0.30
95-47-6	o-Xylene	18.5		1.0	0.36
100-42-5	Styrene	19.0		1.0	0.42
127-18-4	Tetrachloroethene	20.0		1.0	0.25
108-88-3	Toluene	17.8		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.2		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.1		1.0	0.49
79-01-6	Trichloroethene	19.4		1.0	0.31
75-69-4	Trichlorofluoromethane	23.5		1.0	0.14
75-01-4	Vinyl chloride	19.7		1.0	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38657.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 16-Dec-2018 14:51:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0083648-021
Operator ID: Instrument ID: CVOAMS2

Method: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\8260W_2.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 17-Dec-2018 11:11:19 Calib Date: 14-Dec-2018 09:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Edison\ChromData\CVOAMS2\20181213-83531.b\B38554.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: parekhv Date: 16-Dec-2018 23:20:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.764	0.776	-0.012	87	15327	20.0	21.3	
2	Dichlorodifluoromethane	85	0.787	0.799	-0.012	98	56251	20.0	22.3	
3	Chloromethane	50	0.879	0.879	0.000	97	66011	20.0	18.9	
4	Butadiene	54	0.902	0.913	-0.011	93	41612	20.0	17.4	
5	Vinyl chloride	62	0.936	0.936	0.000	98	51880	20.0	19.7	
6	Bromomethane	94	1.073	1.073	0.000	97	43546	20.0	21.4	
7	Chloroethane	64	1.107	1.107	0.000	100	30127	20.0	20.1	
9	Dichlorofluoromethane	67	1.233	1.233	0.000	99	82603	20.0	20.3	
8	Trichlorofluoromethane	101	1.256	1.267	-0.011	96	70123	20.0	23.5	
10	Pentane	72	1.267	1.279	-0.012	96	11965	40.0	40.2	
11	Ethanol	46	1.370	1.370	0.000	76	6778	800.0	766.7	
12	Ethyl ether	59	1.382	1.382	0.000	90	29021	20.0	18.3	
13	2-Methyl-1,3-butadiene	53	1.393	1.393	0.000	86	29967	20.0	19.0	
14	1,2-Dichloro-1,1,2-trifluo	117	1.416	1.416	0.000	89	36328	20.0	20.6	
15	Acrolein	56	1.450	1.462	-0.012	91	7831	40.0	21.4	
16	1,1-Dichloroethene	96	1.519	1.519	0.000	96	37915	20.0	19.6	
17	1,1,2-Trichloro-1,2,2-trif	101	1.542	1.542	0.000	83	36670	20.0	21.5	
18	Acetone	43	1.542	1.553	-0.011	90	49485	100.0	86.3	
19	Iodomethane	142	1.599	1.610	-0.011	96	84785	20.0	19.6	
20	Carbon disulfide	76	1.645	1.644	0.001	98	145627	20.0	19.6	
21	Isopropyl alcohol	45	1.656	1.667	-0.011	33	23471	200.0	174.1	
22	3-Chloro-1-propene	76	1.725	1.724	0.001	94	21912	20.0	16.5	Ma
25	Acetonitrile	41	1.725	1.736	-0.011	81	100443	200.0	168.9	
24	Methyl acetate	43	1.747	1.747	0.000	98	47531	40.0	36.7	
23	Cyclopentene	67	1.782	1.782	0.000	90	83266	20.0	18.1	
26	Methylene Chloride	84	1.816	1.816	0.000	83	47025	20.0	18.9	
* 27	TBA-d9 (IS)	65	1.873	1.884	-0.011	0	194025	1000.0	1000.0	
28	2-Methyl-2-propanol	59	1.930	1.930	0.000	91	43672	200.0	182.2	
31	Acrylonitrile	53	1.965	1.976	-0.011	94	135539	200.0	181.1	
30	trans-1,2-Dichloroethene	96	1.987	1.987	0.000	90	42733	20.0	19.2	
29	Methyl tert-butyl ether	73	2.010	2.010	0.000	97	113686	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	2.193	2.193	0.000	90	23711	20.0	18.4	
34 1,1-Dichloroethane	63	2.285	2.296	-0.011	99	67522	20.0	18.6	
35 Vinyl acetate	86	2.342	2.353	-0.011	100	14124	40.0	31.1	
36 2-Chloro-1,3-butadiene	88	2.353	2.365	-0.012	89	35996	20.0	19.4	
33 Isopropyl ether	45	2.376	2.387	-0.011	85	108190	20.0	17.2	
37 Tert-butyl ethyl ether	87	2.673	2.673	0.000	86	49948	20.0	19.7	
* 39 2-Butanone-d5	46	2.730	2.730	0.000	0	174867	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.753	2.765	-0.012	97	47611	20.0	18.5	
38 2,2-Dichloropropane	41	2.753	2.765	-0.012	85	31279	20.0	16.0	
41 2-Butanone (MEK)	72	2.776	2.787	-0.011	96	22112	100.0	94.5	
44 Propionitrile	54	2.822	2.833	-0.011	95	51218	200.0	171.7	
42 Ethyl acetate	70	2.856	2.867	-0.011	99	8620	40.0	40.1	
43 Methyl acrylate	85	2.879	2.879	0.000	97	6086	20.0	17.2	
46 Chlorobromomethane	128	2.959	2.959	0.000	51	24841	20.0	18.0	
47 Methacrylonitrile	67	2.959	2.970	-0.011	89	163089	200.0	188.4	
45 Tetrahydrofuran	72	3.005	3.016	-0.011	92	9785	40.0	36.9	
48 Chloroform	83	3.050	3.062	-0.012	99	68863	20.0	18.7	
$ 51 Dibromofluoromethane (Surr	113	3.199	3.210	-0.011	98	100141	50.0	50.7	
50 1,1,1-Trichloroethane	97	3.210	3.210	0.000	98	61542	20.0	20.0	
49 Cyclohexane	84	3.268	3.267	0.001	88	54920	20.0	19.3	
53 1,1-Dichloropropene	75	3.359	3.370	-0.011	97	48529	20.0	18.2	
52 Carbon tetrachloride	117	3.370	3.370	0.000	97	52307	20.0	20.7	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.519	3.519	0.000	58	103445	50.0	49.9	
56 Isobutyl alcohol	74	3.576	3.565	0.011	93	11359	500.0	413.0	
55 Benzene	78	3.565	3.565	0.000	95	152360	20.0	17.1	
60 1,2-Dichloroethane	62	3.588	3.599	-0.011	97	51690	20.0	18.3	
54 Isooctane	57	3.702	3.702	0.000	95	92641	20.0	18.8	
59 Tert-amyl methyl ether	73	3.748	3.748	0.000	79	129804	20.0	18.3	
61 Isopropyl acetate	61	3.748	3.748	0.000	90	14721	20.0	19.0	
* 63 Fluorobenzene	96	3.885	3.885	0.000	99	384594	50.0	50.0	
62 n-Heptane	43	3.919	3.930	-0.011	87	34452	20.0	17.5	
64 Trichloroethene	95	4.296	4.308	-0.012	95	40552	20.0	19.4	
65 n-Butanol	43	4.376	4.388	-0.012	88	12128	500.0	442.1	
67 Ethyl acrylate	55	4.525	4.525	0.000	96	88292	20.0	18.6	
66 Methylcyclohexane	83	4.525	4.525	0.000	87	61240	20.0	19.5	
69 1,2-Dichloropropane	63	4.559	4.559	0.000	92	37677	20.0	18.5	
72 Dibromomethane	93	4.696	4.708	-0.012	89	26060	20.0	18.5	
* 70 1,4-Dioxane-d8	96	4.719	4.719	0.000	64	19925	1000.0	1000.0	
73 1,4-Dioxane	88	4.776	4.776	0.000	60	10381	400.0	424.8	
71 Methyl methacrylate	100	4.822	4.822	0.000	86	22858	40.0	37.6	
74 n-Propyl acetate	43	4.936	4.936	0.000	99	49466	20.0	18.9	
75 Dichlorobromomethane	83	4.948	4.948	0.000	99	51710	20.0	18.9	
76 2-Nitropropane	41	5.268	5.268	0.000	98	17647	40.0	40.1	
77 2-Chloroethyl vinyl ether	63	5.439	5.439	0.000	91	29729	20.0	19.4	
78 Epichlorohydrin	62	5.462	5.473	-0.011	98	19497	400.0	427.3	
79 cis-1,3-Dichloropropene	75	5.576	5.576	0.000	91	60405	20.0	17.5	
80 4-Methyl-2-pentanone (MIBK	43	5.874	5.873	0.001	94	171058	100.0	94.9	
$ 81 Toluene-d8 (Surr)	98	5.942	5.942	0.000	99	376148	50.0	47.2	
82 Toluene	91	6.034	6.045	-0.011	93	172679	20.0	17.8	
83 trans-1,3-Dichloropropene	75	6.456	6.456	0.000	97	57707	20.0	18.1	
84 Ethyl methacrylate	69	6.731	6.719	0.012	81	52798	20.0	18.7	
86 1,1,2-Trichloroethane	83	6.719	6.719	0.000	84	31955	20.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrachloroethene	166	6.879	6.879	0.000	94	52478	20.0	20.0	
87 1,3-Dichloropropane	76	6.971	6.971	0.000	93	60000	20.0	17.7	
88 2-Hexanone	43	7.245	7.245	0.000	93	118491	100.0	96.6	
89 Chlorodibromomethane	129	7.325	7.325	0.000	97	44193	20.0	18.7	
91 Ethylene Dibromide	107	7.451	7.439	0.012	99	42650	20.0	18.1	
90 n-Butyl acetate	73	7.565	7.565	0.000	98	11170	20.0	19.5	
* 92 Chlorobenzene-d5	117	8.320	8.319	0.001	83	338516	50.0	50.0	
93 Chlorobenzene	112	8.365	8.365	0.000	97	123424	20.0	18.1	
95 1,1,1,2-Tetrachloroethane	131	8.571	8.571	0.000	93	42495	20.0	18.6	
94 Ethylbenzene	106	8.651	8.651	0.000	98	62936	20.0	17.8	
96 m-Xylene & p-Xylene	106	8.880	8.879	0.001	0	78383	20.0	18.3	
97 o-Xylene	106	9.554	9.554	0.000	95	78280	20.0	18.5	
99 Styrene	104	9.600	9.600	0.000	98	140074	20.0	19.0	
98 n-Butyl acrylate	73	9.748	9.748	0.000	98	33056	20.0	18.4	
100 Bromoform	173	9.828	9.828	0.000	98	31630	20.0	18.6	
101 Amyl acetate (mixed isomer	43	10.194	10.182	0.012	92	68754	20.0	17.1	
102 Isopropylbenzene	105	10.240	10.240	0.000	95	191657	20.0	18.5	
$ 103 4-Bromofluorobenzene	174	10.434	10.434	0.000	97	153515	50.0	49.9	
104 Bromobenzene	156	10.605	10.605	0.000	89	61986	20.0	18.0	
107 1,2,3-Trichloropropane	110	10.800	10.800	0.000	97	15761	20.0	18.7	
105 1,1,2,2-Tetrachloroethane	83	10.811	10.811	0.000	96	53362	20.0	17.9	
108 trans-1,4-Dichloro-2-buten	53	10.903	10.903	0.001	88	11836	20.0	16.4	
106 N-Propylbenzene	120	10.937	10.925	0.012	100	55129	20.0	18.1	
109 2-Chlorotoluene	126	10.983	10.983	0.000	96	51935	20.0	17.6	
110 4-Ethyltoluene	105	11.143	11.131	0.012	99	200489	20.0	18.5	
112 4-Chlorotoluene	91	11.177	11.177	0.000	97	164665	20.0	17.7	
111 1,3,5-Trimethylbenzene	105	11.257	11.257	0.000	94	163718	20.0	18.4	
113 Butyl Methacrylate	87	11.588	11.588	0.000	88	57689	20.0	18.1	
114 tert-Butylbenzene	91	11.760	11.760	0.000	95	79546	20.0	18.0	
115 1,2,4-Trimethylbenzene	105	11.851	11.851	0.000	96	176233	20.0	18.6	
116 sec-Butylbenzene	105	12.160	12.160	0.000	99	193472	20.0	18.2	
117 1,3-Dichlorobenzene	146	12.251	12.240	0.011	98	112671	20.0	18.2	
* 119 1,4-Dichlorobenzene-d4	152	12.400	12.388	0.012	93	200371	50.0	50.0	
120 1,4-Dichlorobenzene	146	12.434	12.434	0.000	98	118026	20.0	18.6	
118 4-Isopropyltoluene	119	12.503	12.503	0.000	98	179513	20.0	18.3	
121 1,2,3-Trimethylbenzene	105	12.606	12.606	0.000	98	187518	NC	NC	
122 Benzyl chloride	126	12.731	12.731	0.000	99	19964	20.0	16.2	
123 2,3-Dihydroindene	117	12.857	12.857	0.000	94	193654	20.0	18.5	
126 1,2-Dichlorobenzene	146	12.983	12.983	0.000	98	113657	20.0	18.6	
124 p-Diethylbenzene	105	13.063	13.063	0.000	94	96539	20.0	18.6	
125 n-Butylbenzene	92	13.086	13.086	0.000	95	86511	20.0	18.3	
128 1,2-Dibromo-3-Chloropropan	75	13.703	13.703	0.000	89	10605	20.0	19.0	
127 1,2,4,5-Tetramethylbenzene	119	13.726	13.726	0.000	98	186798	20.0	19.6	
129 1,3,5-Trichlorobenzene	180	13.851	13.851	0.000	97	86433	20.0	18.2	
130 1,2,4-Trichlorobenzene	180	14.240	14.240	0.000	93	82163	20.0	18.9	
131 Hexachlorobutadiene	225	14.366	14.366	0.000	98	29183	20.0	19.6	
132 Naphthalene	128	14.377	14.377	0.000	99	199634	20.0	20.1	
133 1,2,3-Trichlorobenzene	180	14.514	14.514	0.000	96	81114	20.0	19.8	
S 134 1,2-Dichloroethene, Total	100				0		40.0	37.7	
S 135 Xylenes, Total	100				0		40.0	36.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00291	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00091	Amount Added:	20.00	Units: uL	
ACROLEIN W_00084	Amount Added:	4.00	Units: uL	
8260ISNEW_00092	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00188	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 17-Dec-2018 11:11:22 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CVOAMS2\20181216-83648.b\B38657.D

Injection Date: 16-Dec-2018 14:51:30 Instrument ID: CVOAMS2 Operator ID:

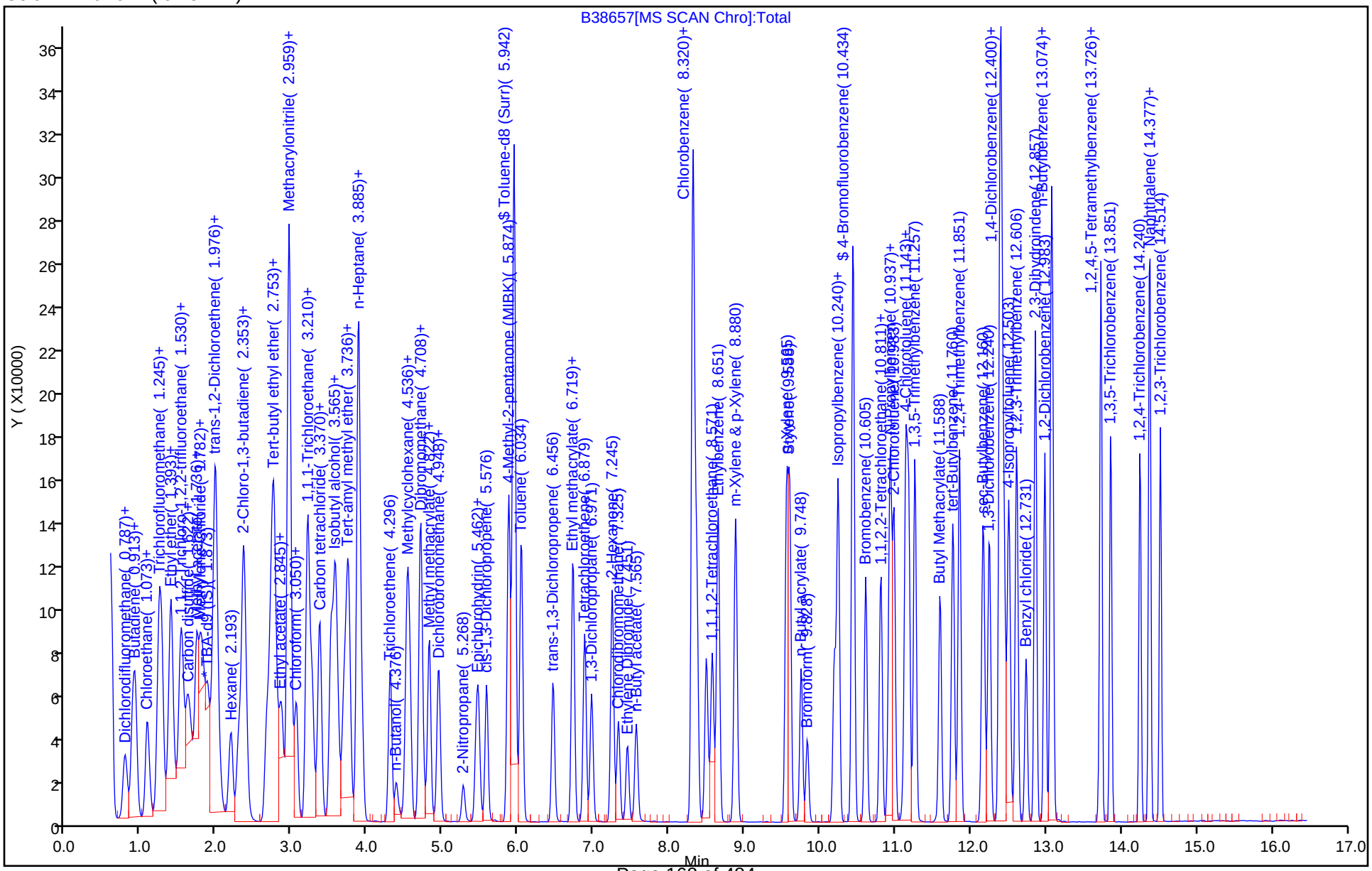
Lims ID: LCSD Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: 8260W_2 Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 Start Date: 12/13/2018 22:00

Analysis Batch Number: 575626 End Date: 12/14/2018 10:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-575626/1		12/13/2018 22:00	1	B38541.D	Rtx-624 0.25(mm)
STD1 460-575626/4 IC		12/13/2018 23:23	1	B38544.D	Rtx-624 0.25(mm)
STD5 460-575626/5 IC		12/13/2018 23:48	1	B38545.D	Rtx-624 0.25(mm)
STD20 460-575626/6 ICIS		12/14/2018 00:13	1	B38546.D	Rtx-624 0.25(mm)
STD50 460-575626/7 IC		12/14/2018 00:38	1	B38547.D	Rtx-624 0.25(mm)
STD200 460-575626/8 IC		12/14/2018 01:02	1	B38548.D	Rtx-624 0.25(mm)
STD500 460-575626/9 IC		12/14/2018 01:27	1	B38549.D	Rtx-624 0.25(mm)
STD7 460-575626/14 IC		12/14/2018 09:53	1	B38554.D	Rtx-624 0.25(mm)
ICV 460-575626/15		12/14/2018 10:17	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: CVOAMS2 Start Date: 12/16/2018 06:15

Analysis Batch Number: 576213 End Date: 12/16/2018 17:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-576213/1		12/16/2018 06:15	1	B38637.D	Rtx-624 0.25(mm)
CCVIS 460-576213/3		12/16/2018 07:13	1	B38639.D	Rtx-624 0.25(mm)
LCS 460-576213/4		12/16/2018 07:45	1	B38640.D	Rtx-624 0.25(mm)
ZZZZZ		12/16/2018 08:10	1		Rtx-624 0.25(mm)
MB 460-576213/8		12/16/2018 09:25	1	B38644.D	Rtx-624 0.25(mm)
LCSD 460-576213/21		12/16/2018 14:51	1	B38657.D	Rtx-624 0.25(mm)
460-170982-4		12/16/2018 15:41	1	B38659.D	Rtx-624 0.25(mm)
460-170982-5		12/16/2018 16:07	1	B38660.D	Rtx-624 0.25(mm)
460-170982-1		12/16/2018 16:57	1	B38662.D	Rtx-624 0.25(mm)
460-170982-2		12/16/2018 17:21	1	B38663.D	Rtx-624 0.25(mm)
460-170982-3		12/16/2018 17:46	1	B38664.D	Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 576213 Batch Start Date: 12/16/18 06:15 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00092	8260MIX1COMB 00091	8260SURR250 00188	ACROLEIN W 00084
BFB 460-576213/1		8260C		5 mL	5 mL				
CCVIS 460-576213/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-576213/4		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-576213/8		8260C		5 mL	5 mL	1 uL		1 uL	
LCSD 460-576213/21		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
460-170982-B-4	9999-23-FB-BK01-12052018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-170982-B-5	9999-23-TB-BK01-12052018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-170982-B-1	9999-23-MW01-GW01-12052018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-170982-B-2	9999-23-MW02-GW01-12052018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-170982-B-3	9999-23-MW03-GW01-12052018	8260C	T	5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00018	GASES Li 00291				
BFB 460-576213/1		8260C		1 uL					
CCVIS 460-576213/3		8260C			20 uL				
LCS 460-576213/4		8260C			20 uL				
MB 460-576213/8		8260C							
LCSD 460-576213/21		8260C			20 uL				
460-170982-B-4	9999-23-FB-BK01-12052018	8260C	T						
460-170982-B-5	9999-23-TB-BK01-12052018	8260C	T						
460-170982-B-1	9999-23-MW01-GW01-12052018	8260C	T						
460-170982-B-2	9999-23-MW02-GW01-12052018	8260C	T						
460-170982-B-3	9999-23-MW03-GW01-12052018	8260C	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 576213 Batch Start Date: 12/16/18 06:15 Batch Analyst: Moroney, Christopher J

Batch 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.

8270D_DKQP

Semivolatile Organic Compounds (GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25(mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHL #
9999-23-MW01-GW01-12052018	460-170982-1	79	70	56
9999-23-MW02-GW01-12052018	460-170982-2	77	71	52
9999-23-MW03-GW01-12052018	460-170982-3	90	83	67
9999-23-FB-BK01-12052018	460-170982-4	85	81	74
	MB 460-574537/1-A	101	85	88
	LCS 460-574537/2-A	106	93	80
	LCSD 460-574537/3-A	113	103	87

	QC LIMITS
NBZ = Nitrobenzene-d5	30-130
FBP = 2-Fluorobiphenyl	30-130
TPHL = Terphenyl-d14	30-130

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: N179702.d

Lab ID: LCS 460-574537/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,4,5-Tetrachlorobenzene	80.0	57.8	72	70-130	
2,2'-oxybis[1-chloropropane]	80.0	87.2	109	70-130	
2,4-Dinitrotoluene	80.0	92.2	115	70-130	
2,6-Dinitrotoluene	80.0	87.2	109	70-130	
2-Chloronaphthalene	80.0	65.3	82	70-130	
2-Methylnaphthalene	80.0	67.4	84	70-130	
2-Nitroaniline	80.0	101	126	20-160	
3,3'-Dichlorobenzidine	80.0	79.6	99	70-130	
3-Nitroaniline	80.0	77.6	97	20-160	
4-Bromophenyl phenyl ether	80.0	74.3	93	70-130	
4-Chloroaniline	80.0	74.9	94	20-160	
4-Chlorophenyl phenyl ether	80.0	81.4	102	70-130	
4-Nitroaniline	80.0	90.4	113	20-160	
Acetophenone	80.0	93.1	116	70-130	
Bis(2-chloroethoxy)methane	80.0	75.3	94	70-130	
Bis(2-ethylhexyl) phthalate	80.0	97.4	122	70-130	
Butyl benzyl phthalate	80.0	103	129	70-130	
Carbazole	80.0	90.1	113	70-130	
Dibenzofuran	80.0	78.0	97	70-130	
Diethyl phthalate	80.0	97.3	122	70-130	
Dimethyl phthalate	80.0	88.3	110	70-130	
Di-n-butyl phthalate	80.0	103	129	70-130	
Di-n-octyl phthalate	80.0	118	148	70-130	*
Hexachlorobenzene	80.0	73.6	92	70-130	
Hexachlorobutadiene	80.0	59.9	75	70-130	
Hexachlorocyclopentadiene	80.0	59.4	74	20-160	
Hexachloroethane	80.0	64.7	81	20-160	
Isophorone	80.0	74.2	93	70-130	
Nitrobenzene	80.0	86.0	107	70-130	
N-Nitrosodi-n-propylamine	80.0	92.6	116	70-130	
N-Nitrosodiphenylamine	80.0	80.8	101	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: N179703.d

Lab ID: LCSD 460-574537/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,2,4,5-Tetrachlorobenzene	80.0	68.6	86	17	20	70-130	
2,2'-oxybis[1-chloropropane]	80.0	91.7	115	5	20	70-130	
2,4-Dinitrotoluene	80.0	100	126	9	20	70-130	
2,6-Dinitrotoluene	80.0	93.4	117	7	20	70-130	
2-Chloronaphthalene	80.0	74.9	94	14	20	70-130	
2-Methylnaphthalene	80.0	71.2	89	6	20	70-130	
2-Nitroaniline	80.0	49.8	62	68	20	20-160	*
3,3'-Dichlorobenzidine	80.0	1.41 J	2	193	20	70-130	*
3-Nitroaniline	80.0	0.96 U	0	200	20	20-160	*
4-Bromophenyl phenyl ether	80.0	80.7	101	8	20	70-130	
4-Chloroaniline	80.0	1.9 U	2	193	20	20-160	*
4-Chlorophenyl phenyl ether	80.0	88.7	111	9	20	70-130	
4-Nitroaniline	80.0	0.54 U	0	200	20	20-160	*
Acetophenone	80.0	93.3	117	0	20	70-130	
Bis(2-chloroethoxy)methane	80.0	75.8	95	1	20	70-130	
Bis(2-ethylhexyl) phthalate	80.0	103	129	6	20	70-130	
Butyl benzyl phthalate	80.0	107	134	4	20	70-130	*
Carbazole	80.0	91.2	114	1	20	70-130	
Dibenzofuran	80.0	87.1	109	11	20	70-130	
Diethyl phthalate	80.0	103	129	6	20	70-130	
Dimethyl phthalate	80.0	96.2	120	9	20	70-130	
Di-n-butyl phthalate	80.0	107	134	4	20	70-130	*
Di-n-octyl phthalate	80.0	127	158	7	20	70-130	*
Hexachlorobenzene	80.0	80.6	101	9	20	70-130	
Hexachlorobutadiene	80.0	59.3	74	1	20	70-130	
Hexachlorocyclopentadiene	80.0	65.0	81	9	20	20-160	
Hexachloroethane	80.0	61.5	77	5	20	20-160	
Isophorone	80.0	79.5	99	7	20	70-130	
Nitrobenzene	80.0	85.5	107	1	20	70-130	
N-Nitrosodi-n-propylamine	80.0	90.4	113	2	20	70-130	
N-Nitrosodiphenylamine	80.0	40.1	50	67	20	70-130	*

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: N179701.D Lab Sample ID: MB 460-574537/1-A

Matrix: Water Date Extracted: 12/10/2018 09:58

Instrument ID: CBNAMS14 Date Analyzed: 12/11/2018 08:25

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-574537/2-A	N179702.d	12/11/2018 08:46
	LCSD 460-574537/3-A	N179703.d	12/11/2018 09:06
9999-23-MW01-GW01-12052018	460-170982-1	N179714.d	12/11/2018 12:56
9999-23-MW02-GW01-12052018	460-170982-2	N179715.d	12/11/2018 13:16
9999-23-MW03-GW01-12052018	460-170982-3	N179716.d	12/11/2018 13:37
9999-23-FB-BK01-12052018	460-170982-4	N179717.d	12/11/2018 13:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: N178590.d DFTPP Injection Date: 10/25/2018

Instrument ID: CBNAMS14 DFTPP Injection Time: 19:24

Analysis Batch No.: 563162

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	40.0	
68	Less than 2% of mass 69	0.6	(1.6) 1
69	Mass 69 Relative abundance	37.6	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	47.7	
197	Less than 2% of mass 198	0.2	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	27.1	
365	Greater than 1% of mass 198	3.9	
441	present but less than 24% of mass 442	16.4	(15.5) 2
442	Greater than 50% of mass 198	106.1	
443	15-24% of mass 442	20.7	(19.5) 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
	ICIS 460-563162/2	N178591.d	10/25/2018	19:51
	STD24 460-563162/3	N178592.d	10/25/2018	20:24
	STD16 460-563162/4	N178593.d	10/25/2018	20:45
	STD4 460-563162/5	N178594.d	10/25/2018	21:06
	STD2 460-563162/6	N178595.d	10/25/2018	21:27
	STD1 460-563162/7	N178596.d	10/25/2018	21:48
	STD02 460-563162/8	N178597.d	10/25/2018	22:09
	STD01 460-563162/9	N178598.d	10/25/2018	22:30
	STD10 460-563162/10	N178599.d	10/25/2018	22:50
	STD24 460-563162/11	N178600.d	10/25/2018	23:11
	STD16 460-563162/12	N178601.d	10/25/2018	23:32
	STD4 460-563162/13	N178602.d	10/25/2018	23:53
	STD2 460-563162/14	N178603.d	10/26/2018	00:14
	STD1 460-563162/15	N178604.d	10/26/2018	00:35
	STD02 460-563162/16	N178605.d	10/26/2018	00:56

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: N179698a.d DFTPP Injection Date: 12/11/2018

Instrument ID: CBNAMS14 DFTPP Injection Time: 06:49

Analysis Batch No.: 574741

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.8	
68	Less than 2% of mass 69	1.0	(2.0) 1
69	Mass 69 Relative abundance	47.9	
70	Less than 2% of mass 69	0.3	(0.7) 1
127	10-80% of Base Peak	55.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	27.8	
365	Greater than 1% of mass 198	5.5	
441	present but less than 24% of mass 442	20.1	(17.5) 2
442	Greater than 50% of mass 198	115.2	
443	15-24% of mass 442	21.4	(18.5) 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 460-574741/2	N179699a.d	12/11/2018	07:32
	MB 460-574537/1-A	N179701.D	12/11/2018	08:25
	LCS 460-574537/2-A	N179702.d	12/11/2018	08:46
	LCSD 460-574537/3-A	N179703.d	12/11/2018	09:06
9999-23-MW01-GW01-12052018	460-170982-1	N179714.d	12/11/2018	12:56
9999-23-MW02-GW01-12052018	460-170982-2	N179715.d	12/11/2018	13:16
9999-23-MW03-GW01-12052018	460-170982-3	N179716.d	12/11/2018	13:37
9999-23-FB-BK01-12052018	460-170982-4	N179717.d	12/11/2018	13:58

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-574741/2 Date Analyzed: 12/11/2018 07:32

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): N179699a.d Heated Purge: (Y/N) N

Calibration ID: 71737

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		671272	4.23	2557341	5.45	1137553	7.12
UPPER LIMIT		1342544	4.73	5114682	5.95	2275106	7.62
LOWER LIMIT		335636	3.73	1278671	4.95	568777	6.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-574537/1-A		723110	4.22	2866215	5.45	1333006	7.11
LCS 460-574537/2-A		750123	4.23	2936197	5.45	1343878	7.11
LCSD 460-574537/3-A		815555	4.23	3018985	5.45	1294237	7.11
460-170982-1	9999-23-MW01-GW01-12052018	1117353	4.23	4304676	5.45	1922636	7.11
460-170982-2	9999-23-MW02-GW01-12052018	1003102	4.22	3994427	5.45	1793304	7.11
460-170982-3	9999-23-MW03-GW01-12052018	994139	4.23	3909923	5.45	1716857	7.11
460-170982-4	9999-23-FB-BK01-12052018	1121971	4.23	4288858	5.45	1861114	7.11

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-574741/2 Date Analyzed: 12/11/2018 07:32

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): N179699a.d Heated Purge: (Y/N) N

Calibration ID: 71737

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2003761	8.52	1742216	11.10	1809846	12.92
UPPER LIMIT		4007522	9.02	3484432	11.60	3619692	13.42
LOWER LIMIT		1001881	8.02	871108	10.60	904923	12.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-574537/1-A		2449150	8.51	1864787	11.10	1808610	12.92
LCS 460-574537/2-A		2328042	8.51	2020939	11.10	2058656	12.91
LCSD 460-574537/3-A		2240178	8.51	1931832	11.10	1941991	12.91
460-170982-1	9999-23-MW01-GW01-12052018	3331821	8.51	2616455	11.10	2621499	12.92
460-170982-2	9999-23-MW02-GW01-12052018	3233958	8.51	2559767	11.10	2591236	12.92
460-170982-3	9999-23-MW03-GW01-12052018	2998699	8.51	2370022	11.10	2356553	12.92
460-170982-4	9999-23-FB-BK01-12052018	3286660	8.51	2510197	11.10	2569834	12.92

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 | Lab Sample ID: 460-170982-1

Matrix: Water | Lab File ID: N179714.d

Analysis Method: 8270D | Date Collected: 12/05/2018 12:10

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 12:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2
108-60-1	2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.39	U	2.0	0.39
91-58-7	2-Chloronaphthalene	1.2	U	10	1.2
91-57-6	2-Methylnaphthalene	1.1	U	10	1.1
88-74-4	2-Nitroaniline	0.47	U *	10	0.47
91-94-1	3,3'-Dichlorobenzidine	1.4	U *	10	1.4
99-09-2	3-Nitroaniline	0.96	U *	10	0.96
101-55-3	4-Bromophenyl phenyl ether	0.75	U	10	0.75
106-47-8	4-Chloroaniline	1.9	U *	10	1.9
7005-72-3	4-Chlorophenyl phenyl ether	1.3	U	10	1.3
100-01-6	4-Nitroaniline	0.54	U *	10	0.54
98-86-2	Acetophenone	0.79	U	10	0.79
1912-24-9	Atrazine	1.3	U *	2.0	1.3
100-52-7	Benzaldehyde	0.59	U *	10	0.59
111-91-1	Bis(2-chloroethoxy)methane	0.24	U	10	0.24
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7
85-68-7	Butyl benzyl phthalate	0.85	U *	10	0.85
105-60-2	Caprolactam	0.68	U *	10	0.68
86-74-8	Carbazole	0.68	U	10	0.68
132-64-9	Dibenzofuran	1.1	U	10	1.1
84-66-2	Diethyl phthalate	0.98	U	10	0.98
131-11-3	Dimethyl phthalate	0.77	U	10	0.77
84-74-2	Di-n-butyl phthalate	0.84	U *	10	0.84
117-84-0	Di-n-octyl phthalate	4.8	U *	10	4.8
118-74-1	Hexachlorobenzene	0.40	U	1.0	0.40
87-68-3	Hexachlorobutadiene	0.78	U	1.0	0.78
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
67-72-1	Hexachloroethane	1.2	U	2.0	1.2
78-59-1	Isophorone	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.57	U	1.0	0.57
621-64-7	N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 | Lab Sample ID: 460-170982-1

Matrix: Water | Lab File ID: N179714.d

Analysis Method: 8270D | Date Collected: 12/05/2018 12:10

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 12:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
86-30-6	N-Nitrosodiphenylamine	0.89	U *	10	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	70		30-130
4165-60-0	Nitrobenzene-d5	79		30-130
1718-51-0	Terphenyl-d14	56		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 | Lab Sample ID: 460-170982-1

Matrix: Water | Lab File ID: N179714.d

Analysis Method: 8270D | Date Collected: 12/05/2018 12:10

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 12:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d
Lims ID: 460-170982-F-1-A
Client ID: 9999-23-MW01-GW01-12052018
Sample Type: Client
Inject. Date: 11-Dec-2018 12:56:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083349-017
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 12-Dec-2018 14:43:40 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: nimerd Date: 13-Dec-2018 14:35:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 14 1,4-Dichlorobenzene-d4	152	4.228	4.228	0.000	98	1117353	8.00	
$ 27 Nitrobenzene-d5	82	4.757	4.752	0.000	95	1586058	7.91	
* 38 Naphthalene-d8	136	5.445	5.446	-0.001	100	4304676	8.00	
$ 51 2-Fluorobiphenyl	172	6.475	6.475	-0.006	97	2789286	6.99	
* 64 Acenaphthene-d10	164	7.110	7.116	-0.006	98	1922636	8.00	
* 87 Phenanthrene-d10	188	8.510	8.516	-0.006	99	3331821	8.00	
$ 96 Terphenyl-d14	244	10.027	10.028	-0.006	99	2075811	5.55	
* 102 Chrysene-d12	240	11.098	11.104	-0.006	99	2616455	8.00	
* 109 Perylene-d12	264	12.916	12.916	0.000	99	2621499	8.00	

Reagents:

SM_ISTD_LVI_00178 Amount Added: 20.00 Units: uL Run Reagent

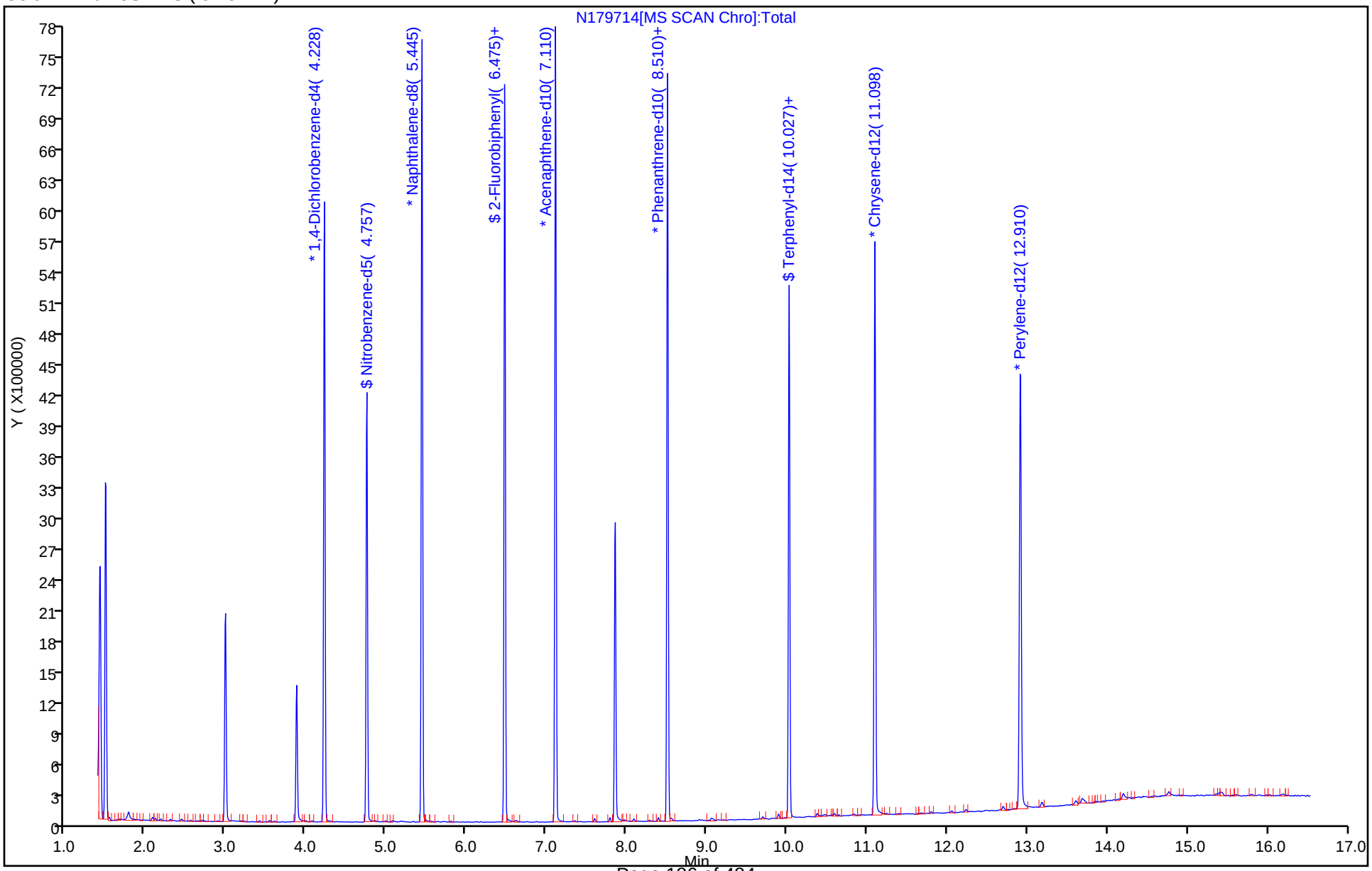
Report Date: 13-Dec-2018 14:36:02 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d

Injection Date:	11-Dec-2018 12:56:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1	Worklist Smp#:	17
Client ID:	9999-23-MW01-GW01-12052018				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



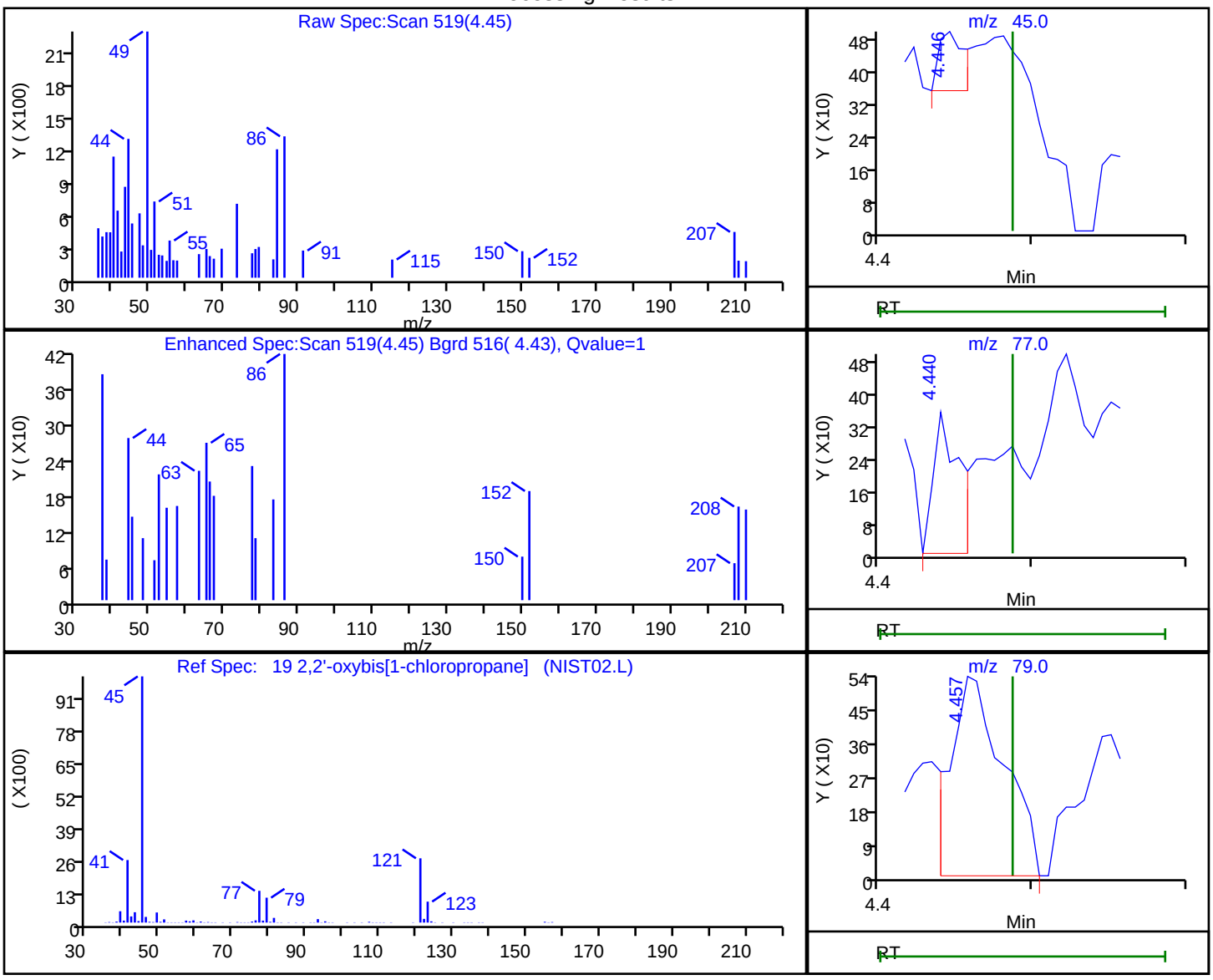
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d				
Injection Date:	11-Dec-2018 12:56:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Processing Results



RT	Mass	Response	Amount
4.45	45.00	171	0.000688
4.44	77.00	416	
4.46	79.00	1318	

Reviewer: khlungprakhons, 12-Dec-2018 14:19:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

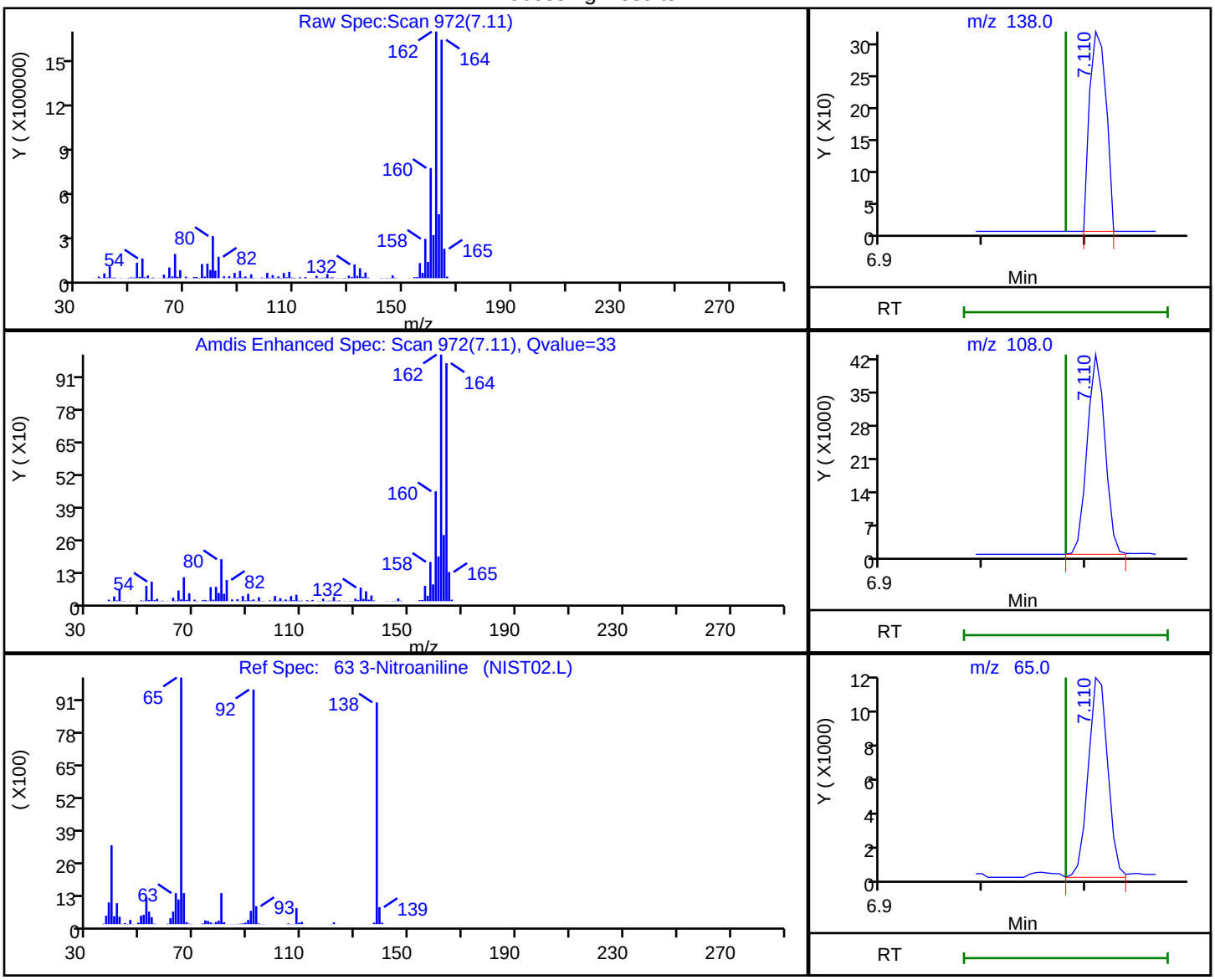
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d				
Injection Date:	11-Dec-2018 12:56:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

63 3-Nitroaniline, CAS: 99-09-2

Processing Results



RT	Mass	Response	Amount
7.11	138.00	350	0.004522
7.11	108.00	51529	
7.11	65.00	15287	

Reviewer: khlungprakhons, 12-Dec-2018 14:20:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

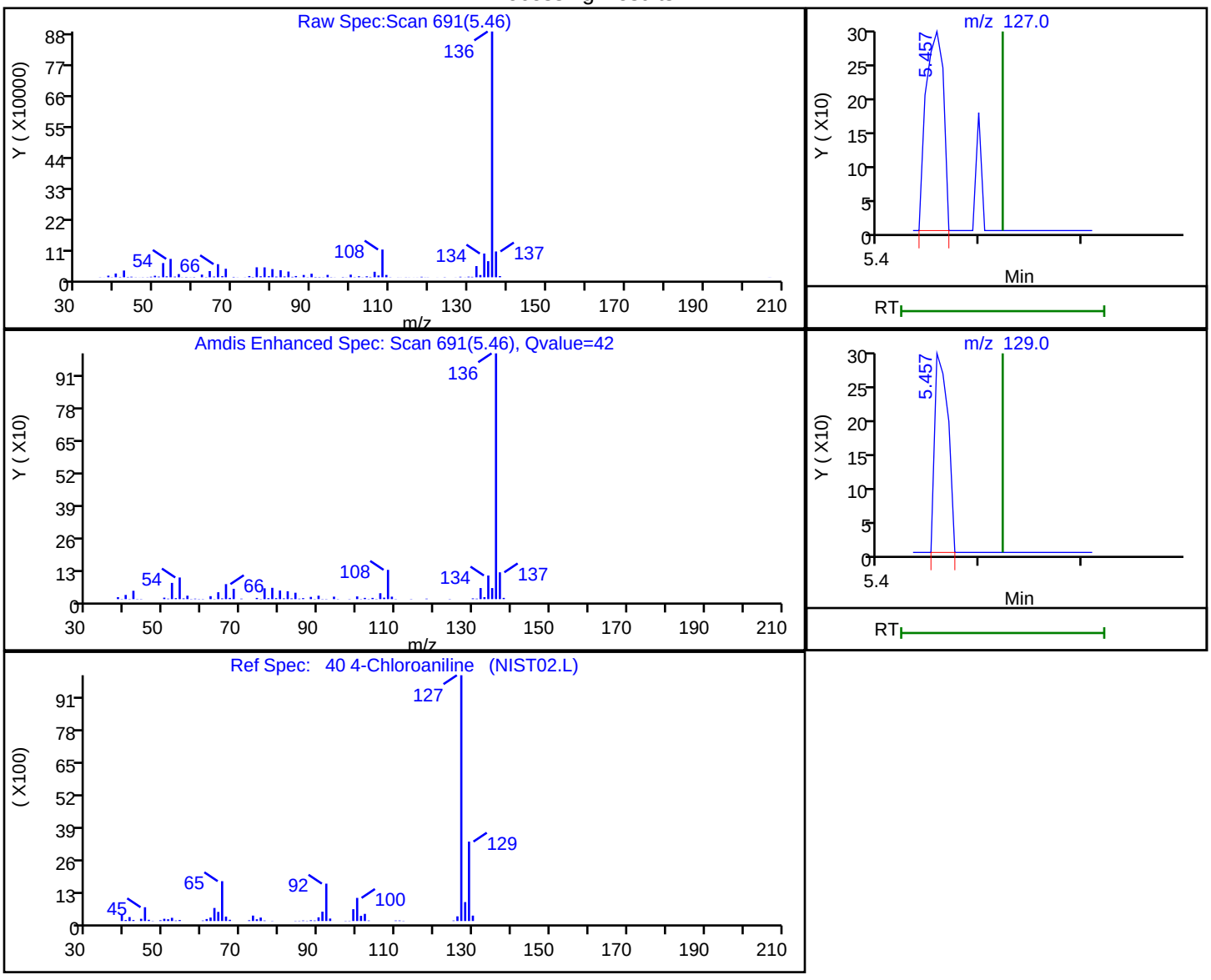
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d				
Injection Date:	11-Dec-2018 12:56:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

40 4-Chloroaniline, CAS: 106-47-8

Processing Results



RT	Mass	Response	Amount
5.46	127.00	356	0.001623
5.46	129.00	266	

Reviewer: khlungprakhons, 12-Dec-2018 14:20:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

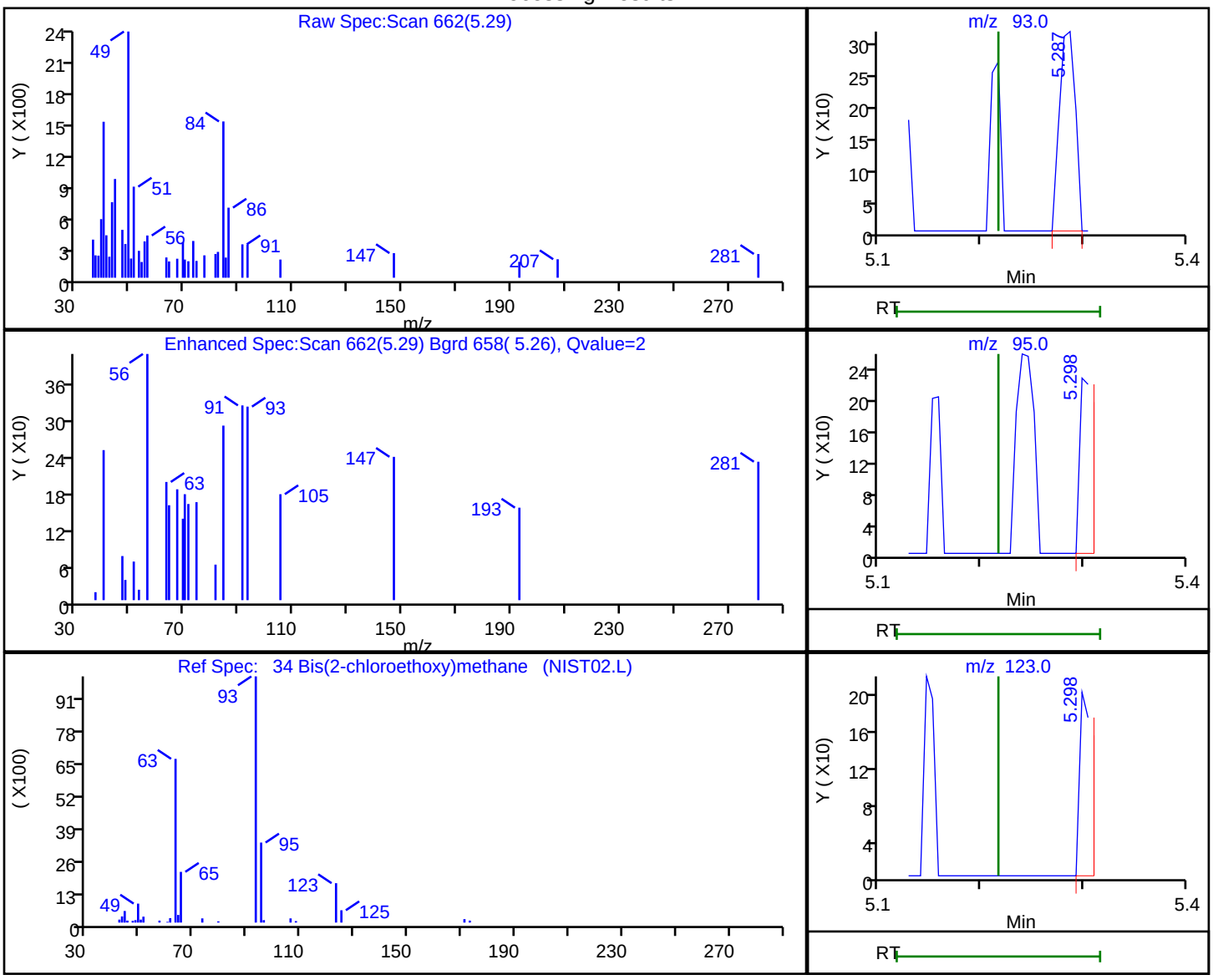
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d				
Injection Date:	11-Dec-2018 12:56:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

34 Bis(2-chloroethoxy)methane, CAS: 111-91-1

Processing Results



RT	Mass	Response	Amount
5.29	93.00	344	0.001557
5.30	95.00	156	
5.30	123.00	129	

Reviewer: khlungprakhons, 12-Dec-2018 14:19:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

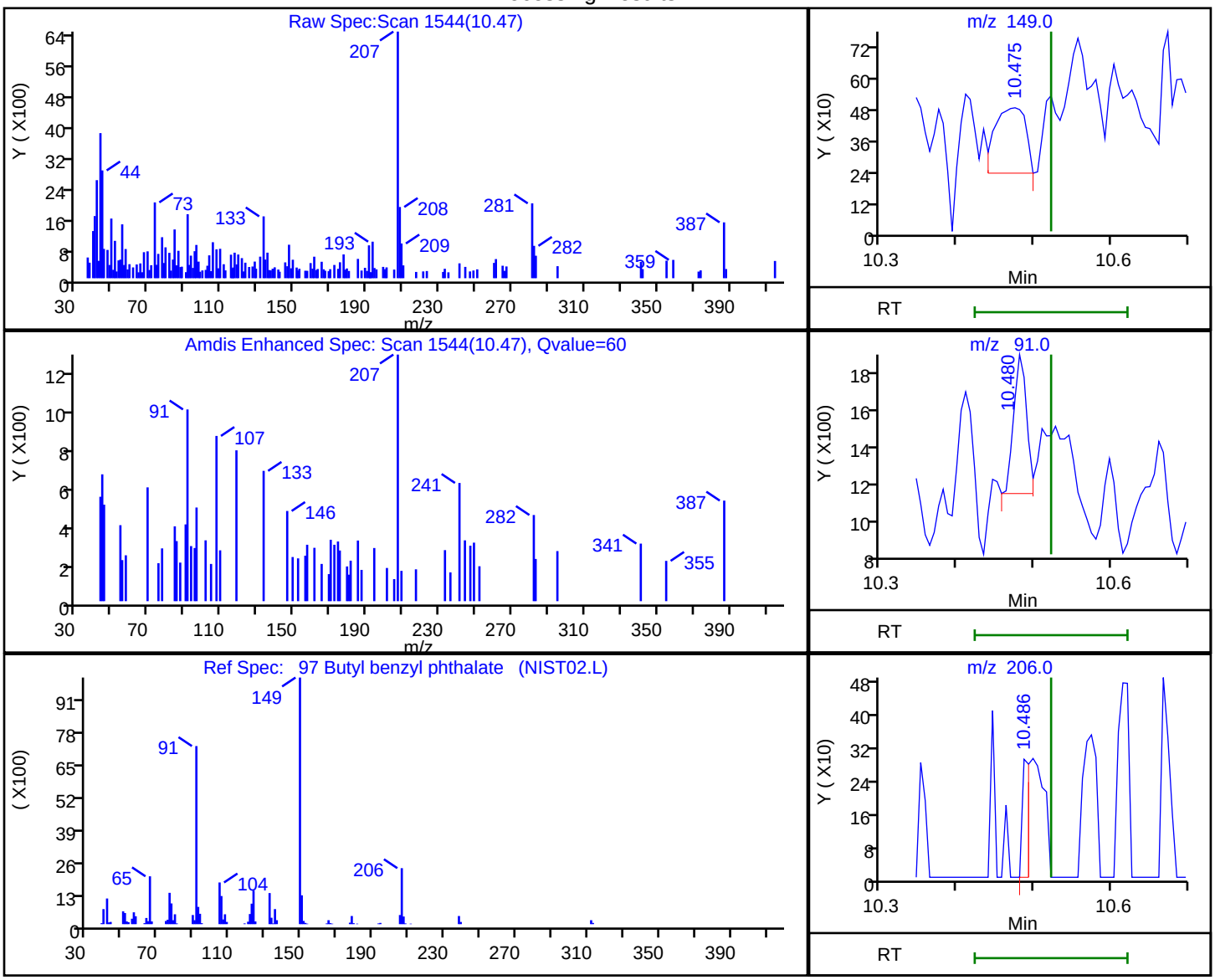
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d				
Injection Date:	11-Dec-2018 12:56:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

97 Butyl benzyl phthalate, CAS: 85-68-7

Processing Results



RT	Mass	Response	Amount
10.47	149.00	710	0.004507
10.48	91.00	851	
10.49	206.00	198	

Reviewer: khlungprakhons, 12-Dec-2018 14:20:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

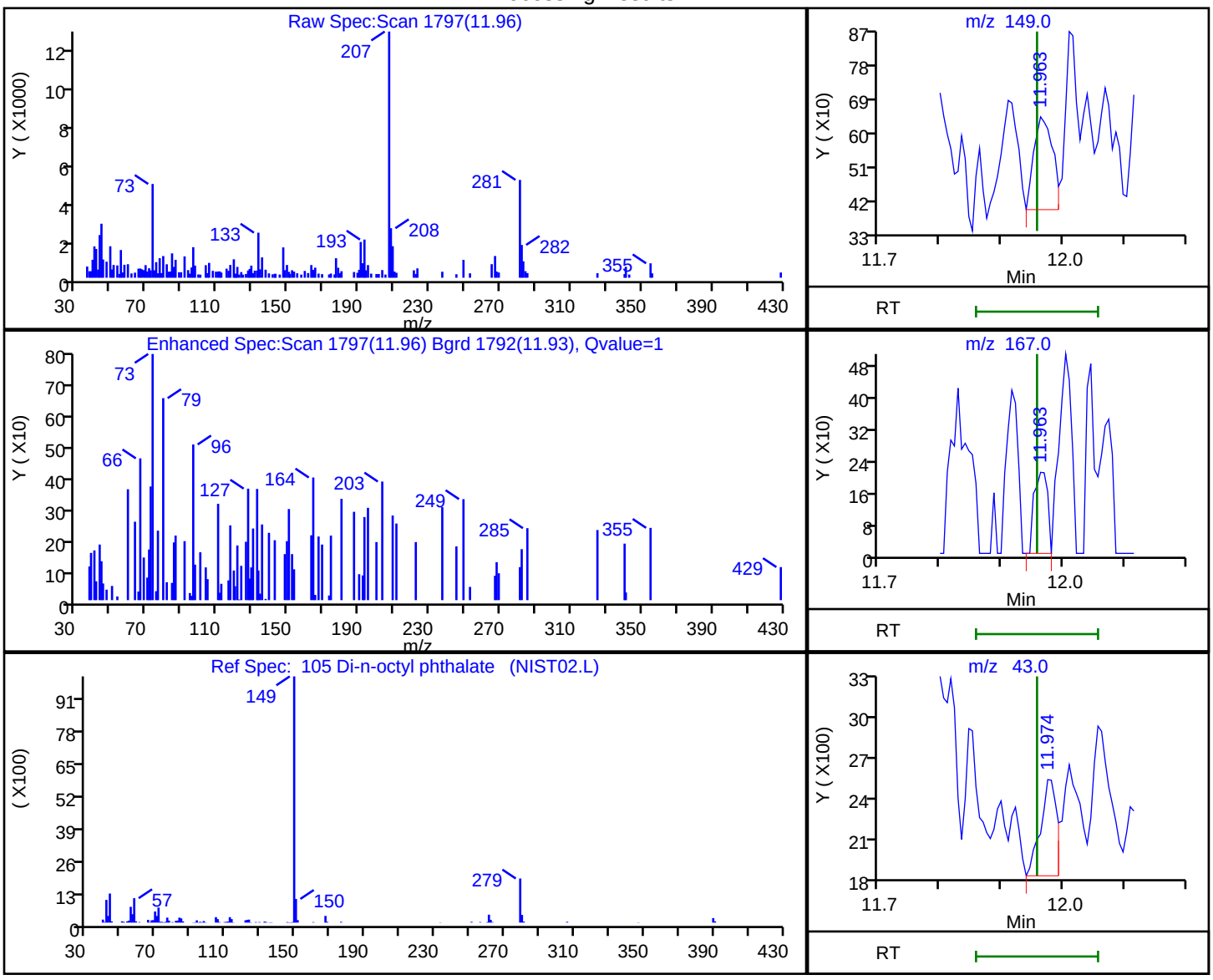
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179714.d				
Injection Date:	11-Dec-2018 12:56:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

105 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
11.96	149.00	530	0.001733
11.96	167.00	314	
11.97	43.00	1286	

Reviewer: khlungprakhons, 12-Dec-2018 14:20:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW02-GW01-12052018 | Lab Sample ID: 460-170982-2

Matrix: Water | Lab File ID: N179715.d

Analysis Method: 8270D | Date Collected: 12/05/2018 09:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2
108-60-1	2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.39	U	2.0	0.39
91-58-7	2-Chloronaphthalene	1.2	U	10	1.2
91-57-6	2-Methylnaphthalene	1.1	U	10	1.1
88-74-4	2-Nitroaniline	0.47	U *	10	0.47
91-94-1	3,3'-Dichlorobenzidine	1.4	U *	10	1.4
99-09-2	3-Nitroaniline	0.96	U *	10	0.96
101-55-3	4-Bromophenyl phenyl ether	0.75	U	10	0.75
106-47-8	4-Chloroaniline	1.9	U *	10	1.9
7005-72-3	4-Chlorophenyl phenyl ether	1.3	U	10	1.3
100-01-6	4-Nitroaniline	0.54	U *	10	0.54
98-86-2	Acetophenone	0.79	U	10	0.79
1912-24-9	Atrazine	1.3	U *	2.0	1.3
100-52-7	Benzaldehyde	0.59	U *	10	0.59
111-91-1	Bis(2-chloroethoxy)methane	0.24	U	10	0.24
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7
85-68-7	Butyl benzyl phthalate	0.85	U *	10	0.85
105-60-2	Caprolactam	0.68	U *	10	0.68
86-74-8	Carbazole	0.68	U	10	0.68
132-64-9	Dibenzofuran	1.1	U	10	1.1
84-66-2	Diethyl phthalate	0.98	U	10	0.98
131-11-3	Dimethyl phthalate	0.77	U	10	0.77
84-74-2	Di-n-butyl phthalate	0.84	U *	10	0.84
117-84-0	Di-n-octyl phthalate	4.8	U *	10	4.8
118-74-1	Hexachlorobenzene	0.40	U	1.0	0.40
87-68-3	Hexachlorobutadiene	0.78	U	1.0	0.78
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
67-72-1	Hexachloroethane	1.2	U	2.0	1.2
78-59-1	Isophorone	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.57	U	1.0	0.57
621-64-7	N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW02-GW01-12052018 | Lab Sample ID: 460-170982-2

Matrix: Water | Lab File ID: N179715.d

Analysis Method: 8270D | Date Collected: 12/05/2018 09:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
86-30-6	N-Nitrosodiphenylamine	0.89	U *	10	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	71		30-130
4165-60-0	Nitrobenzene-d5	77		30-130
1718-51-0	Terphenyl-d14	52		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW02-GW01-12052018 | Lab Sample ID: 460-170982-2

Matrix: Water | Lab File ID: N179715.d

Analysis Method: 8270D | Date Collected: 12/05/2018 09:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179715.d
Lims ID: 460-170982-E-2-A
Client ID: 9999-23-MW02-GW01-12052018
Sample Type: Client
Inject. Date: 11-Dec-2018 13:16:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083349-018
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 12-Dec-2018 14:43:40 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: khlungprakhons Date: 12-Dec-2018 14:22:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 14 1,4-Dichlorobenzene-d4	152	4.222	4.228	-0.006	98	1003102	8.00	
$ 27 Nitrobenzene-d5	82	4.757	4.752	0.000	97	1434884	7.71	
* 38 Naphthalene-d8	136	5.446	5.446	0.000	100	3994427	8.00	
$ 51 2-Fluorobiphenyl	172	6.475	6.475	-0.006	97	2644162	7.10	
* 64 Acenaphthene-d10	164	7.110	7.116	-0.006	98	1793304	8.00	
* 87 Phenanthrene-d10	188	8.510	8.516	-0.006	99	3233958	8.00	
$ 96 Terphenyl-d14	244	10.028	10.028	-0.005	99	1898517	5.19	
* 102 Chrysene-d12	240	11.098	11.104	-0.006	99	2559767	8.00	
* 109 Perylene-d12	264	12.916	12.916	0.000	99	2591236	8.00	

Reagents:

SM_ISTD_LVI_00178 Amount Added: 20.00 Units: uL Run Reagent

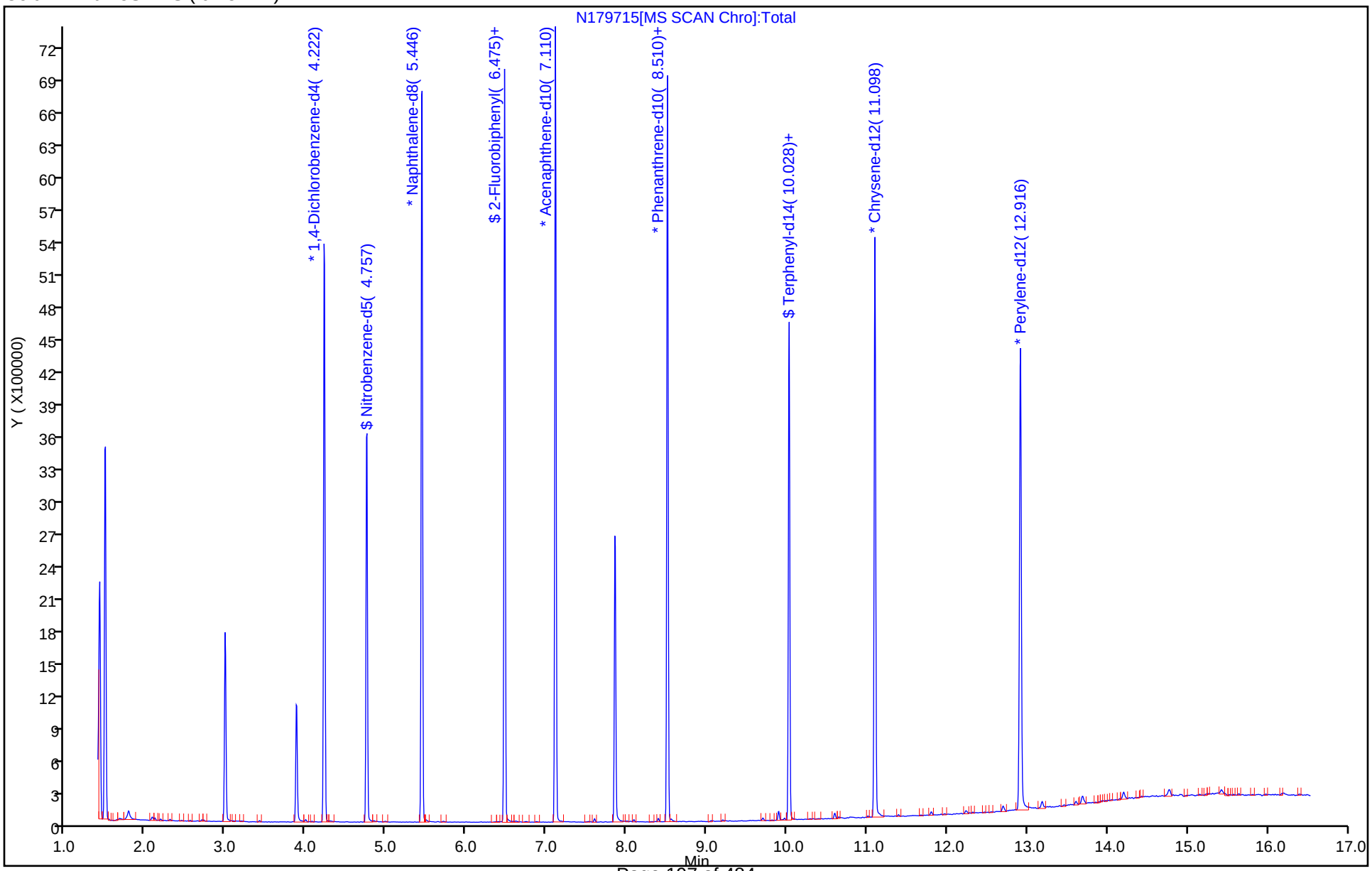
Report Date: 13-Dec-2018 14:36:05 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179715.d

Injection Date:	11-Dec-2018 13:16:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2	Worklist Smp#:	18
Client ID:	9999-23-MW02-GW01-12052018				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



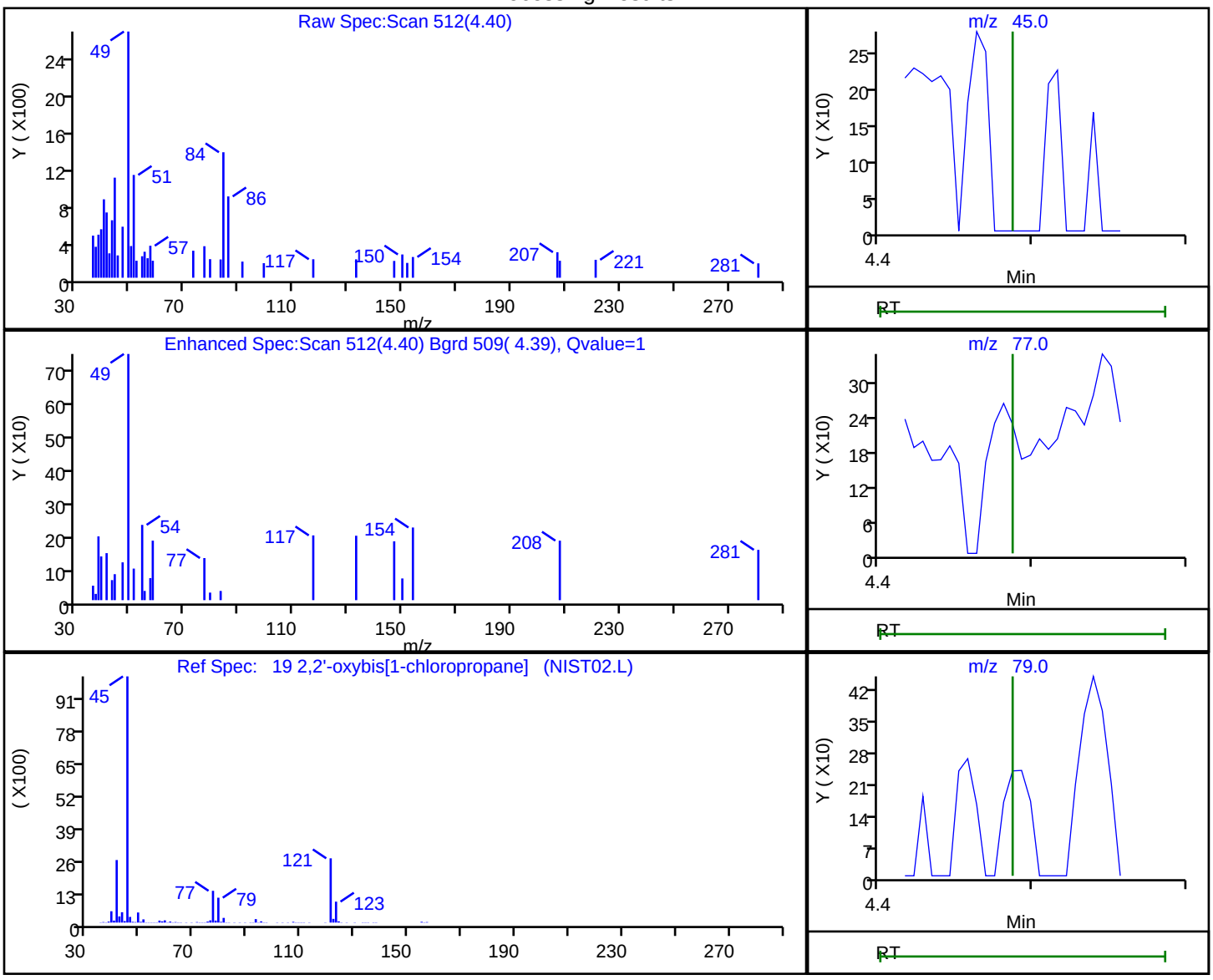
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179715.d				
Injection Date:	11-Dec-2018 13:16:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2		
Client ID:	9999-23-MW02-GW01-12052018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Processing Results



RT	Mass	Response	Amount
4.40	45.00	65	0.000291
4.40	77.00	762	
4.39	79.00	355	

Reviewer: khlungprakhons, 12-Dec-2018 14:21:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

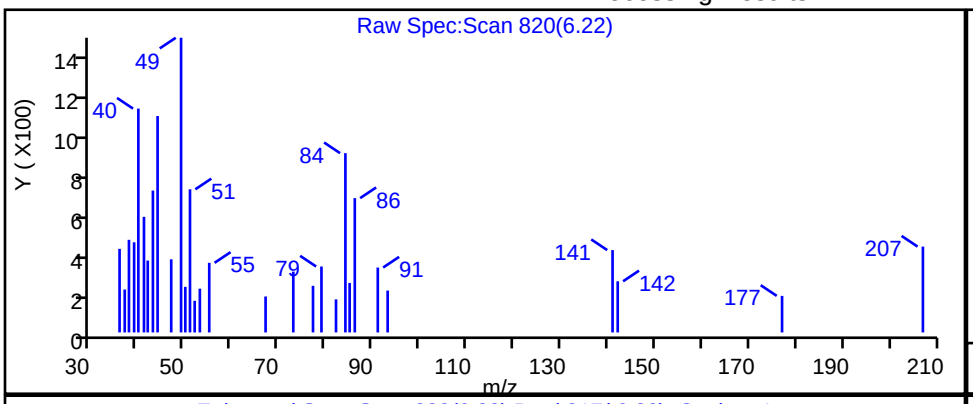
User Disabled Compound Report

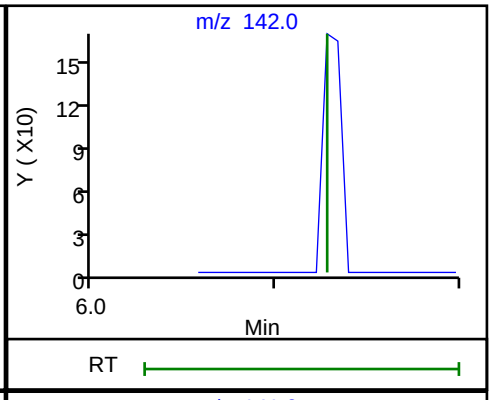
TestAmerica Edison

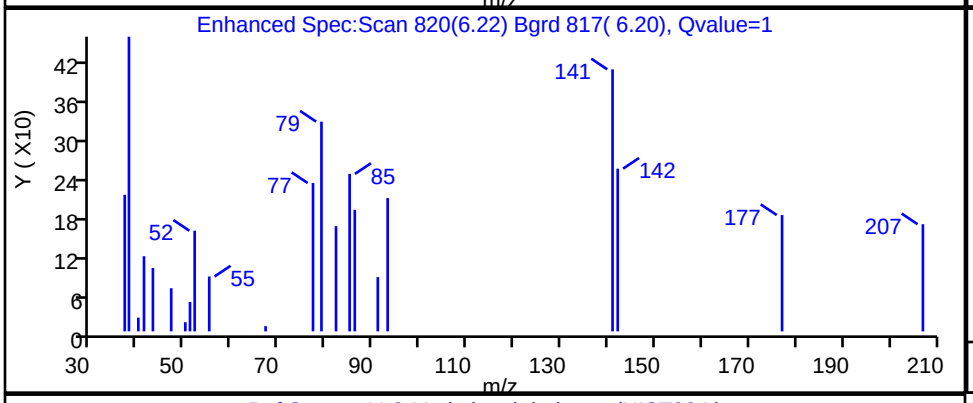
Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179715.d				
Injection Date:	11-Dec-2018 13:16:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2		
Client ID:	9999-23-MW02-GW01-12052018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

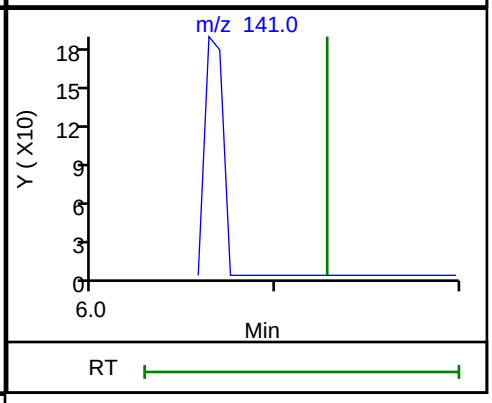
44 2-Methylnaphthalene, CAS: 91-57-6

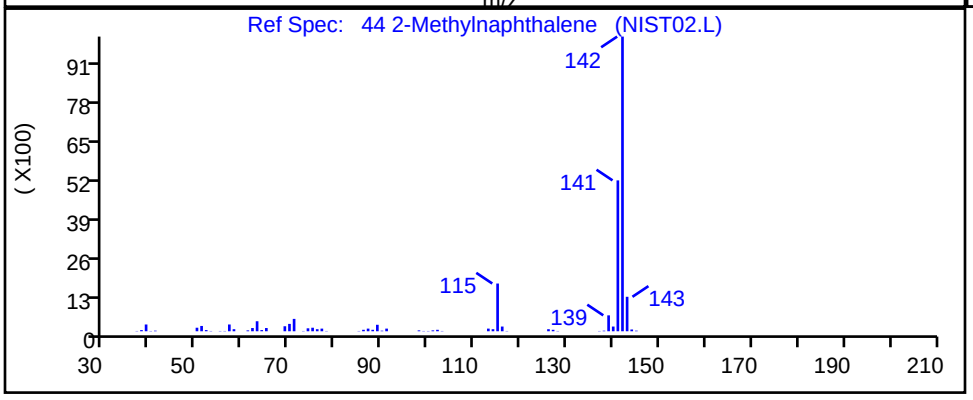
Processing Results











RT	Mass	Response	Amount
6.22	142.00	226	0.000704
6.22	141.00	441	

Reviewer: khlungprakhons, 12-Dec-2018 14:21:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

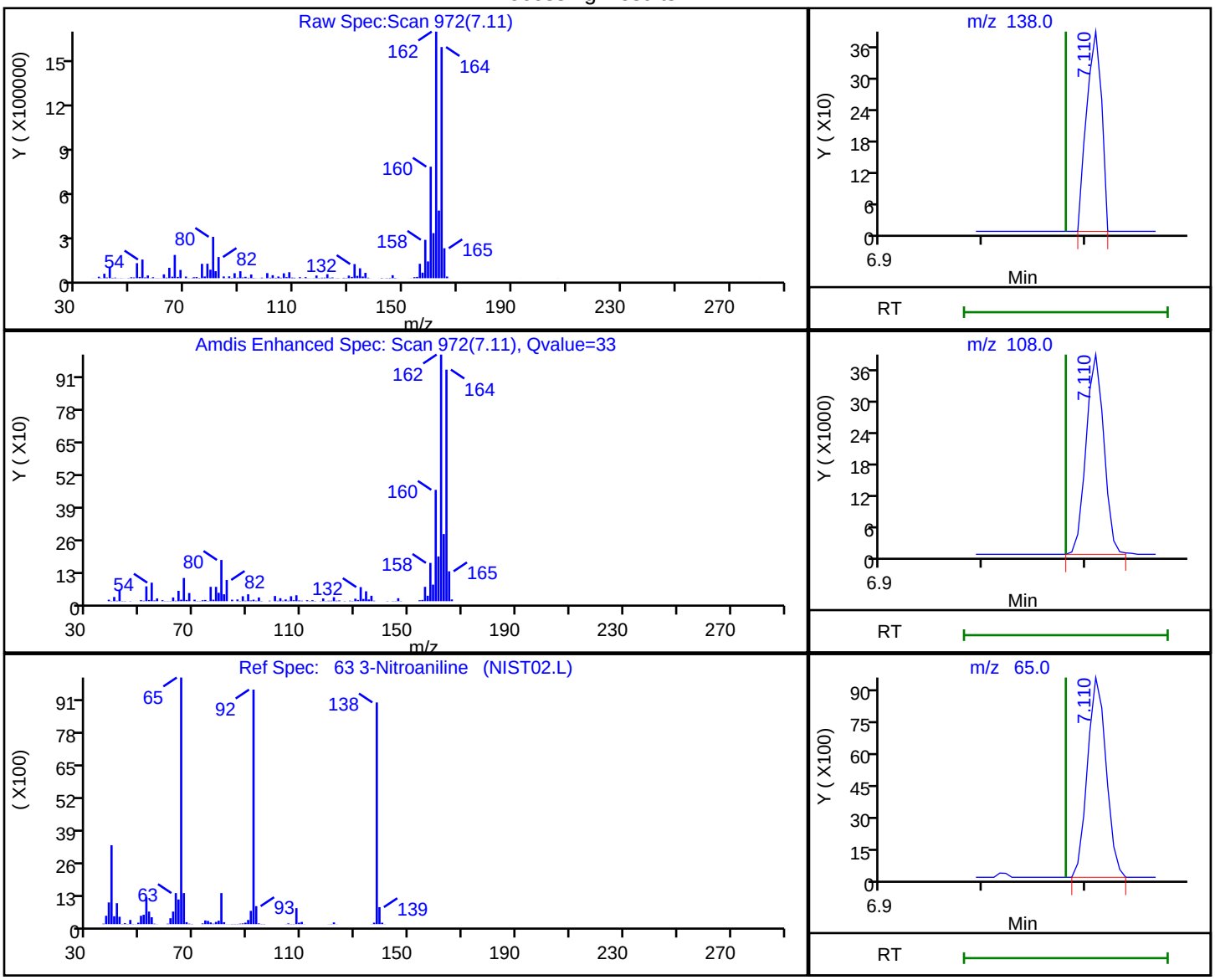
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179715.d				
Injection Date:	11-Dec-2018 13:16:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2		
Client ID:	9999-23-MW02-GW01-12052018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

63 3-Nitroaniline, CAS: 99-09-2

Processing Results



RT	Mass	Response	Amount
7.11	138.00	395	0.005471
7.11	108.00	47171	
7.11	65.00	12206	

Reviewer: khlungprakhons, 12-Dec-2018 14:21:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

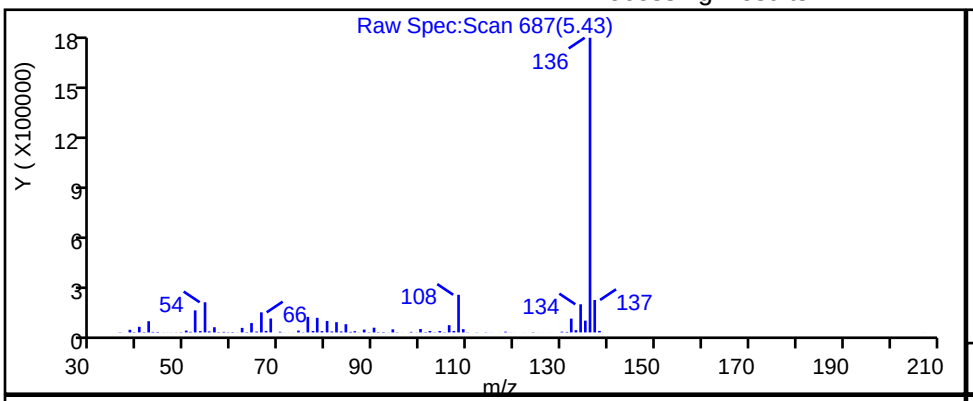
User Disabled Compound Report

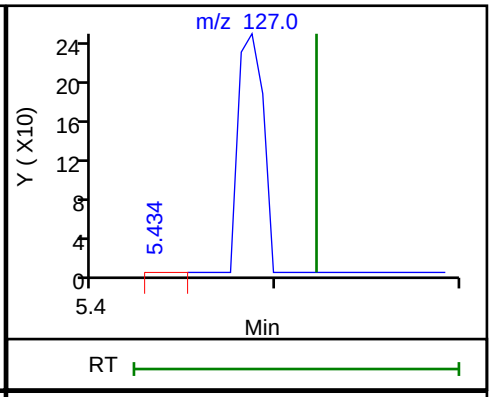
TestAmerica Edison

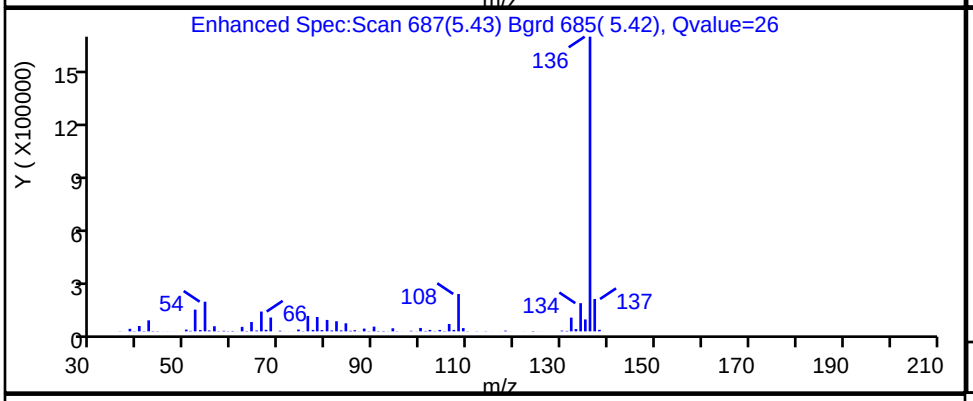
Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179715.d				
Injection Date:	11-Dec-2018 13:16:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2		
Client ID:	9999-23-MW02-GW01-12052018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

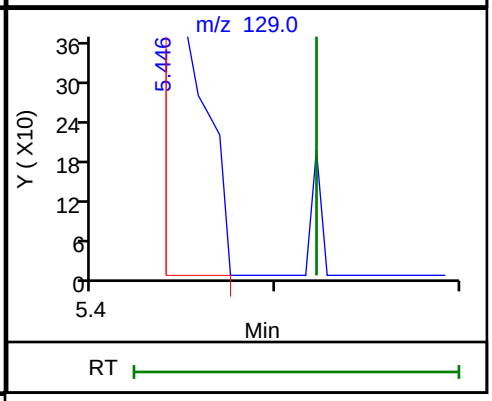
40 4-Chloroaniline, CAS: 106-47-8

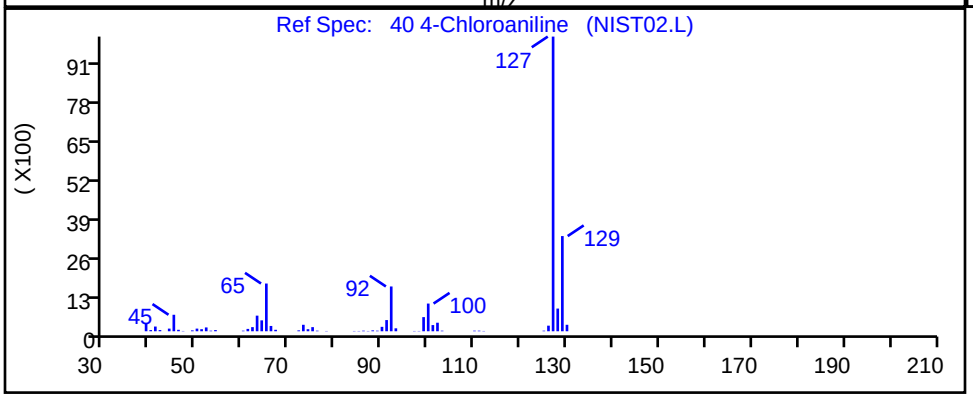
Processing Results











RT	Mass	Response	Amount
5.43	127.00	251	0.001233
5.45	129.00	541	

Reviewer: khlungprakhons, 12-Dec-2018 14:21:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

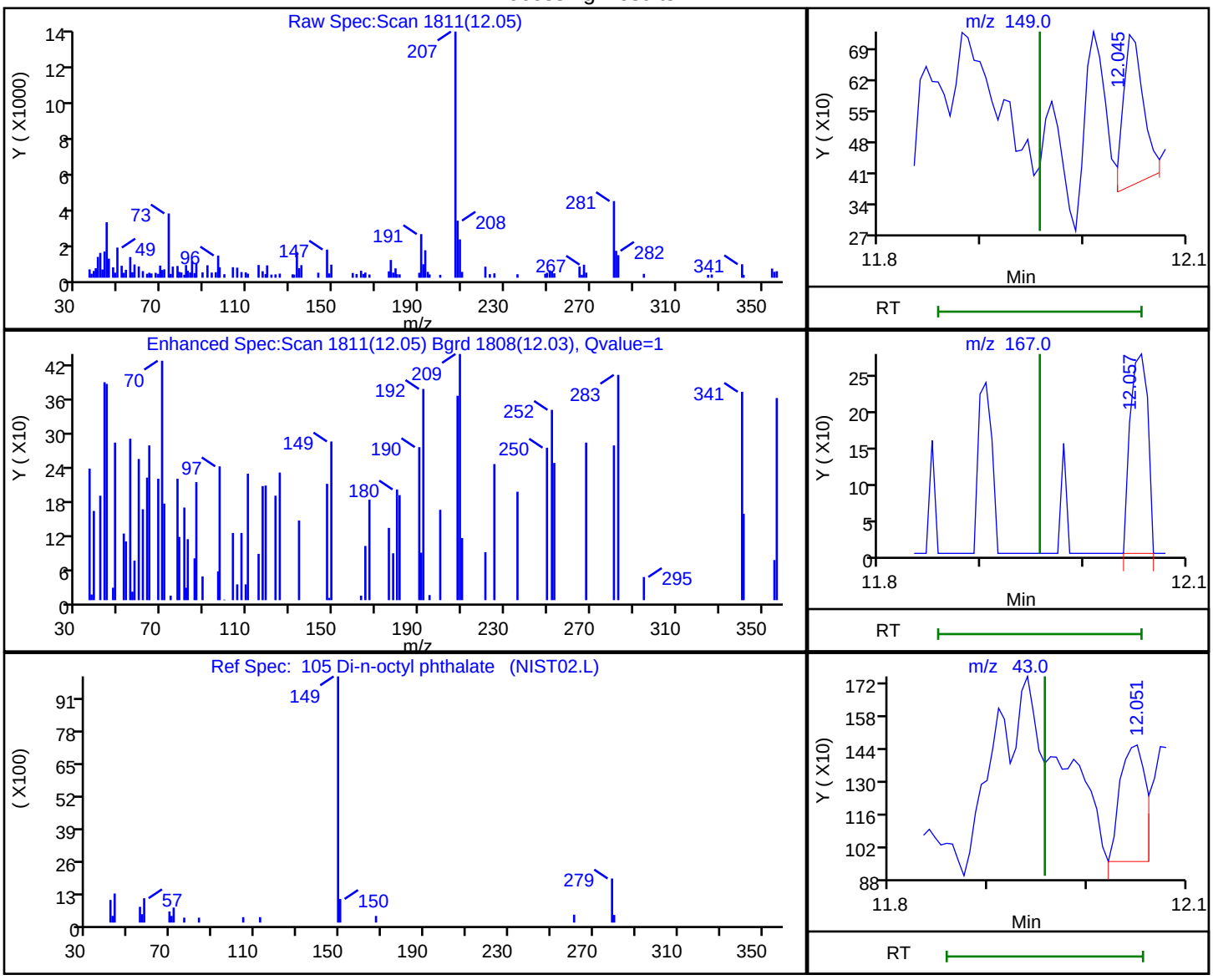
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179715.d				
Injection Date:	11-Dec-2018 13:16:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2		
Client ID:	9999-23-MW02-GW01-12052018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

105 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
12.05	149.00	470	0.001555
12.06	167.00	326	
12.05	43.00	918	

Reviewer: khlungprakhons, 12-Dec-2018 14:21:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW03-GW01-12052018 | Lab Sample ID: 460-170982-3

Matrix: Water | Lab File ID: N179716.d

Analysis Method: 8270D | Date Collected: 12/05/2018 10:30

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2
108-60-1	2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.39	U	2.0	0.39
91-58-7	2-Chloronaphthalene	1.2	U	10	1.2
91-57-6	2-Methylnaphthalene	1.1	U	10	1.1
88-74-4	2-Nitroaniline	0.47	U *	10	0.47
91-94-1	3,3'-Dichlorobenzidine	1.4	U *	10	1.4
99-09-2	3-Nitroaniline	0.96	U *	10	0.96
101-55-3	4-Bromophenyl phenyl ether	0.75	U	10	0.75
106-47-8	4-Chloroaniline	1.9	U *	10	1.9
7005-72-3	4-Chlorophenyl phenyl ether	1.3	U	10	1.3
100-01-6	4-Nitroaniline	0.54	U *	10	0.54
98-86-2	Acetophenone	0.79	U	10	0.79
1912-24-9	Atrazine	1.3	U *	2.0	1.3
100-52-7	Benzaldehyde	0.59	U *	10	0.59
111-91-1	Bis(2-chloroethoxy)methane	0.24	U	10	0.24
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7
85-68-7	Butyl benzyl phthalate	0.85	U *	10	0.85
105-60-2	Caprolactam	0.68	U *	10	0.68
86-74-8	Carbazole	0.68	U	10	0.68
132-64-9	Dibenzofuran	1.1	U	10	1.1
84-66-2	Diethyl phthalate	0.98	U	10	0.98
131-11-3	Dimethyl phthalate	0.77	U	10	0.77
84-74-2	Di-n-butyl phthalate	0.84	U *	10	0.84
117-84-0	Di-n-octyl phthalate	4.8	U *	10	4.8
118-74-1	Hexachlorobenzene	0.40	U	1.0	0.40
87-68-3	Hexachlorobutadiene	0.78	U	1.0	0.78
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
67-72-1	Hexachloroethane	1.2	U	2.0	1.2
78-59-1	Isophorone	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.57	U	1.0	0.57
621-64-7	N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW03-GW01-12052018 | Lab Sample ID: 460-170982-3

Matrix: Water | Lab File ID: N179716.d

Analysis Method: 8270D | Date Collected: 12/05/2018 10:30

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
86-30-6	N-Nitrosodiphenylamine	0.89	U *	10	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	83		30-130
4165-60-0	Nitrobenzene-d5	90		30-130
1718-51-0	Terphenyl-d14	67		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW03-GW01-12052018 | Lab Sample ID: 460-170982-3

Matrix: Water | Lab File ID: N179716.d

Analysis Method: 8270D | Date Collected: 12/05/2018 10:30

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d
Lims ID: 460-170982-E-3-A
Client ID: 9999-23-MW03-GW01-12052018
Sample Type: Client
Inject. Date: 11-Dec-2018 13:37:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083349-019
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 12-Dec-2018 14:43:40 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: khlungprakhons Date: 12-Dec-2018 14:23:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 14 1,4-Dichlorobenzene-d4	152	4.228	4.228	0.000	99	994139	8.00	
$ 27 Nitrobenzene-d5	82	4.757	4.752	0.000	95	1639225	9.00	
* 38 Naphthalene-d8	136	5.445	5.446	-0.001	100	3909923	8.00	
$ 51 2-Fluorobiphenyl	172	6.475	6.475	-0.006	97	2955209	8.29	
* 64 Acenaphthene-d10	164	7.110	7.116	-0.006	98	1716857	8.00	
* 87 Phenanthrene-d10	188	8.510	8.516	-0.006	98	2998699	8.00	
$ 96 Terphenyl-d14	244	10.027	10.028	-0.006	99	2273576	6.71	
* 102 Chrysene-d12	240	11.098	11.104	-0.006	99	2370022	8.00	
* 109 Perylene-d12	264	12.915	12.916	-0.001	99	2356553	8.00	

Reagents:

SM_ISTD_LVI_00178 Amount Added: 20.00 Units: uL Run Reagent

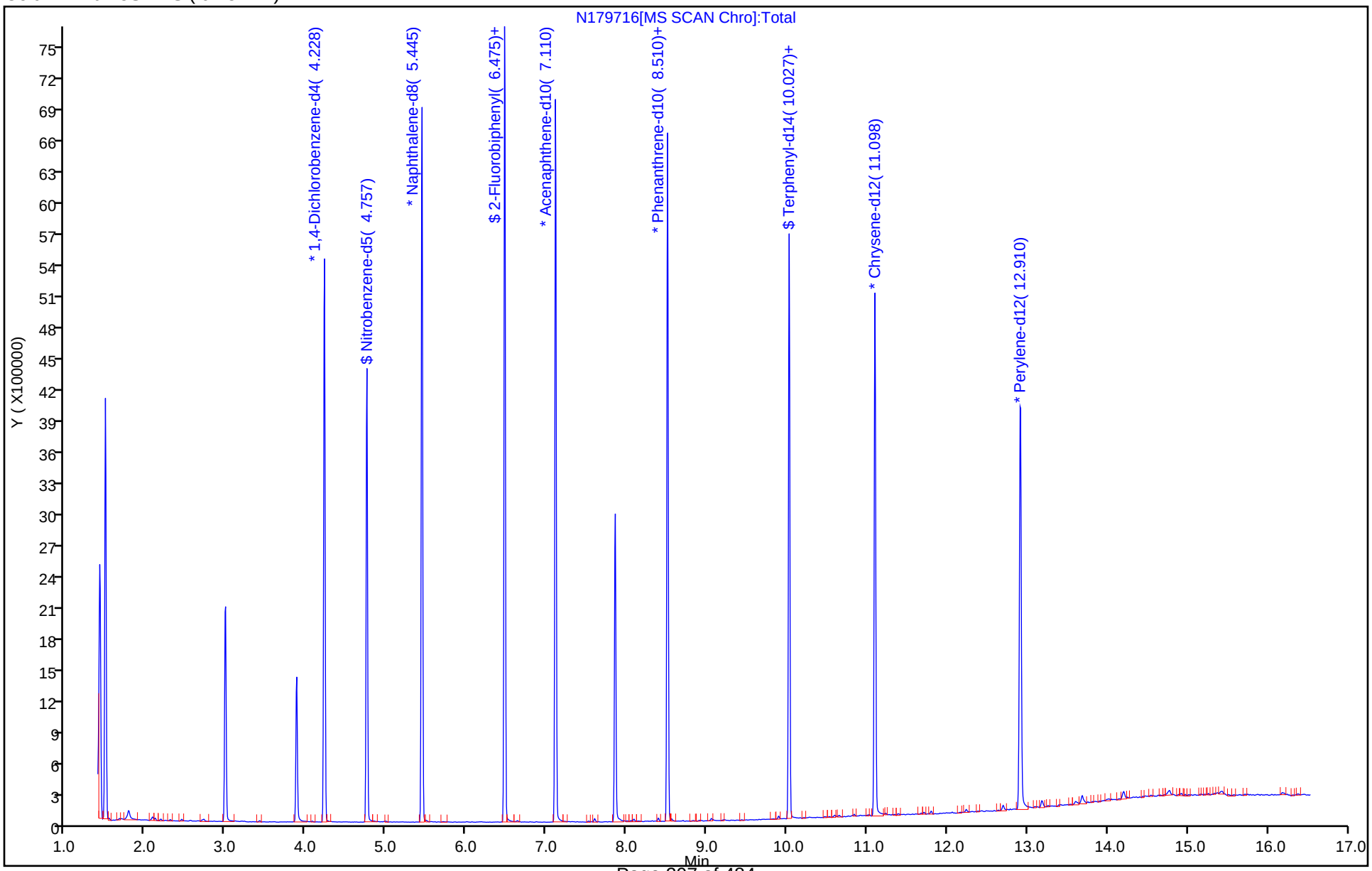
Report Date: 13-Dec-2018 14:36:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d

Injection Date:	11-Dec-2018 13:37:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3	Worklist Smp#:	19
Client ID:	9999-23-MW03-GW01-12052018				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



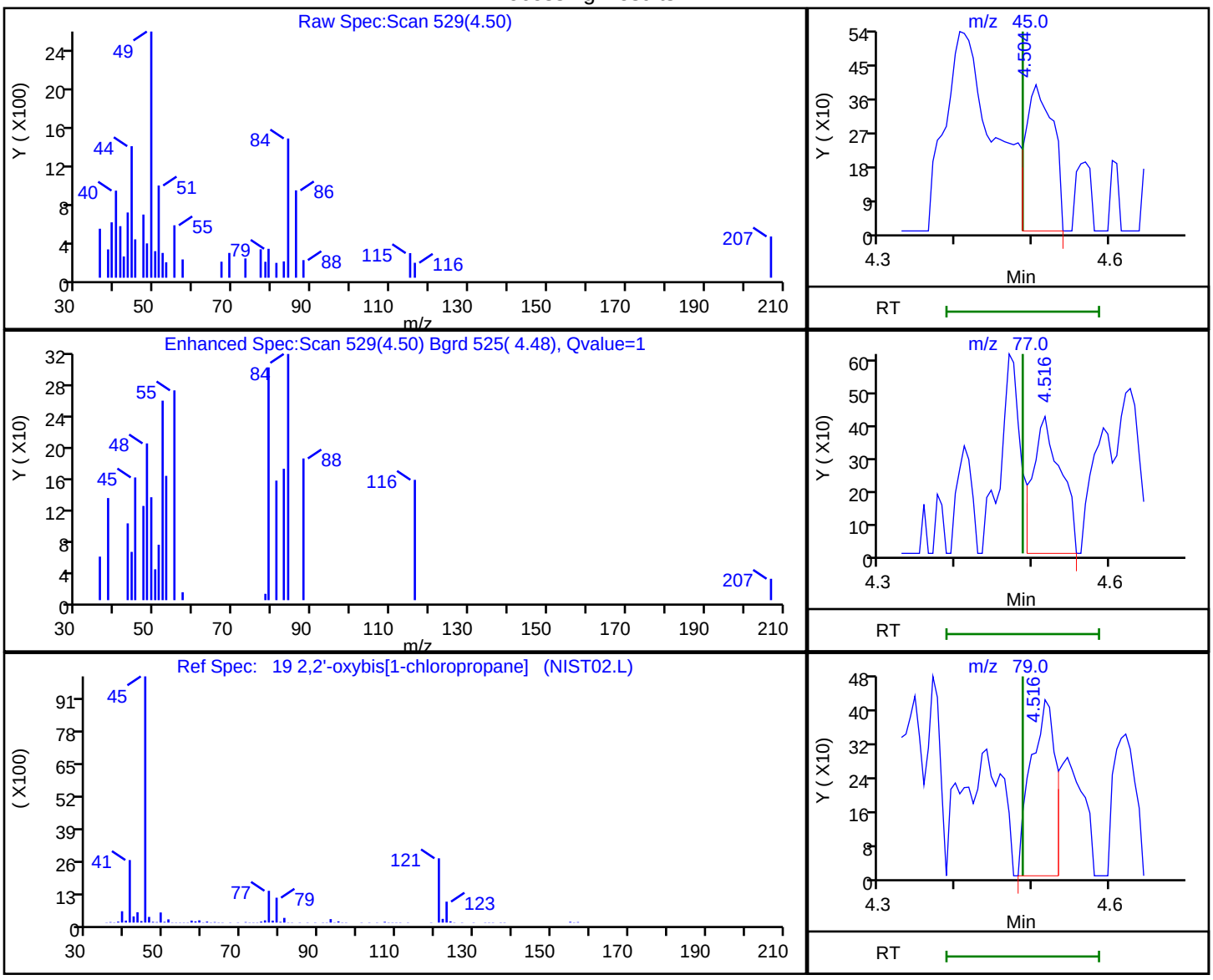
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d				
Injection Date:	11-Dec-2018 13:37:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Processing Results



RT	Mass	Response	Amount
4.50	45.00	973	0.004398
4.52	77.00	1087	
4.52	79.00	945	

Reviewer: khlungprakhons, 12-Dec-2018 14:22:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

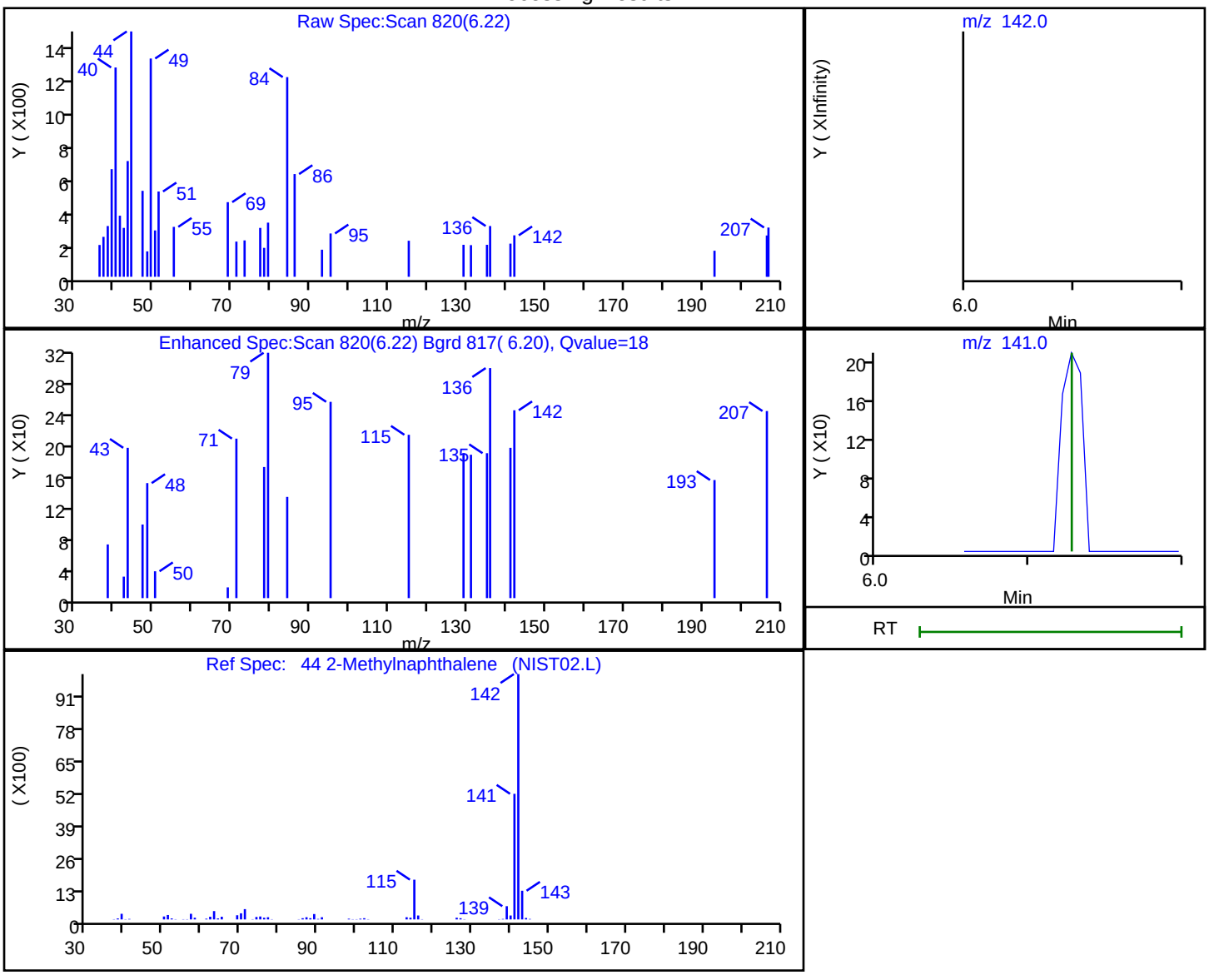
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d				
Injection Date:	11-Dec-2018 13:37:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

44 2-Methylnaphthalene, CAS: 91-57-6

Processing Results



RT	Mass	Response	Amount
6.22	142.00	219	0.000697
6.22	141.00	138	

Reviewer: khlungprakhons, 12-Dec-2018 14:22:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

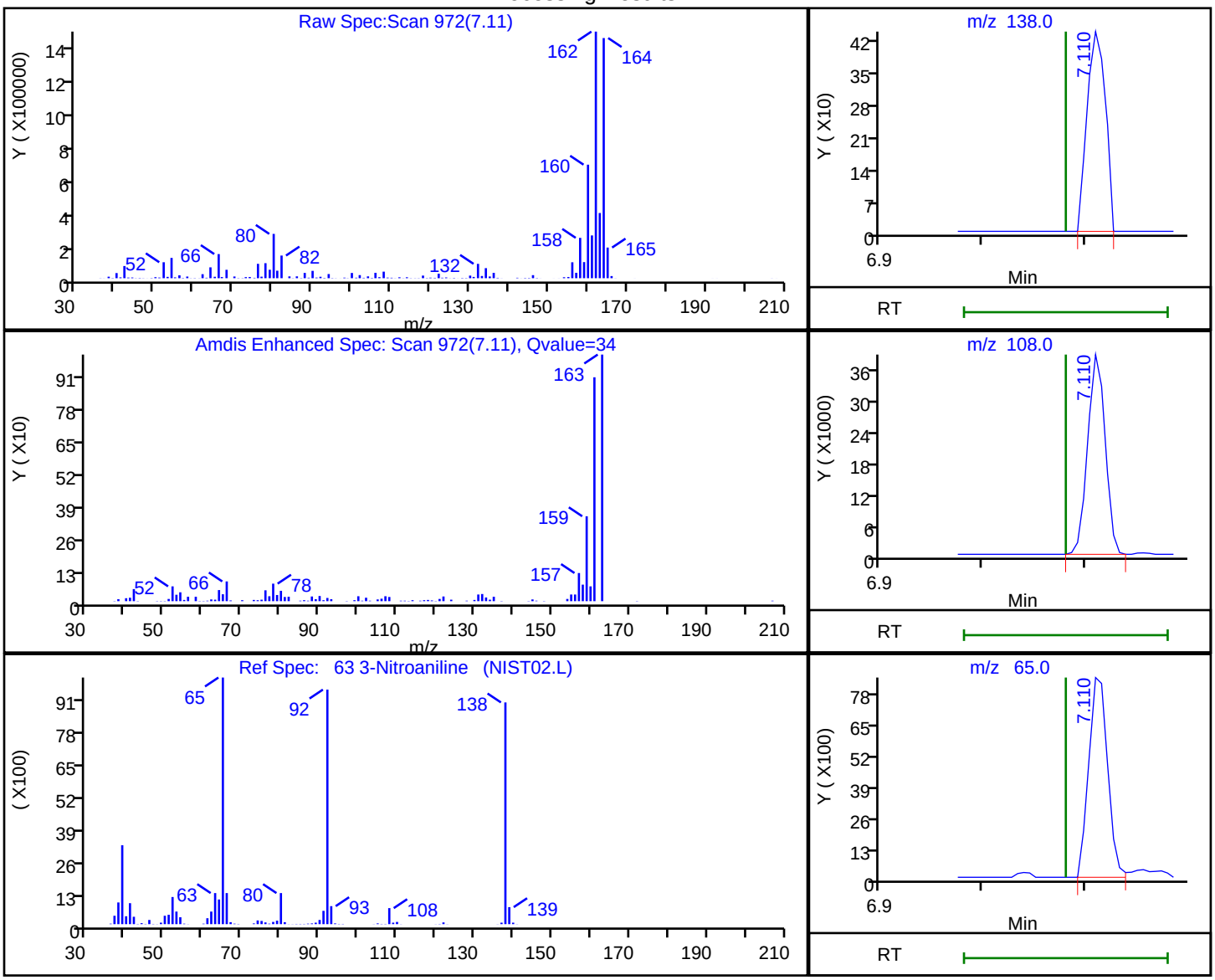
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d				
Injection Date:	11-Dec-2018 13:37:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

63 3-Nitroaniline, CAS: 99-09-2

Processing Results



RT	Mass	Response	Amount
7.11	138.00	543	0.007856
7.11	108.00	46728	
7.11	65.00	10945	

Reviewer: khlungprakhons, 12-Dec-2018 14:22:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

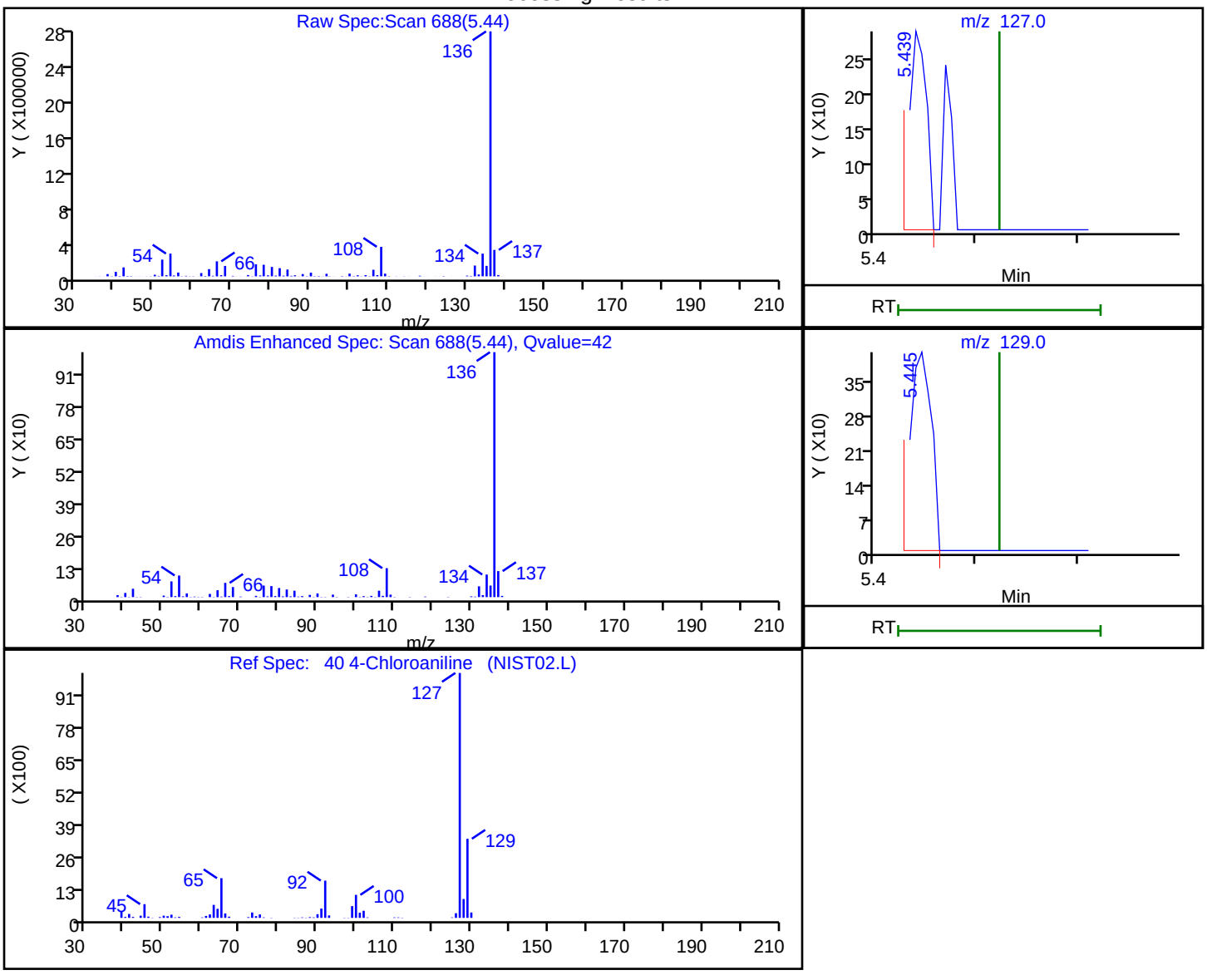
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d				
Injection Date:	11-Dec-2018 13:37:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

40 4-Chloroaniline, CAS: 106-47-8

Processing Results



RT	Mass	Response	Amount
5.44	127.00	314	0.001576
5.45	129.00	554	

Reviewer: khlungprakhons, 12-Dec-2018 14:22:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

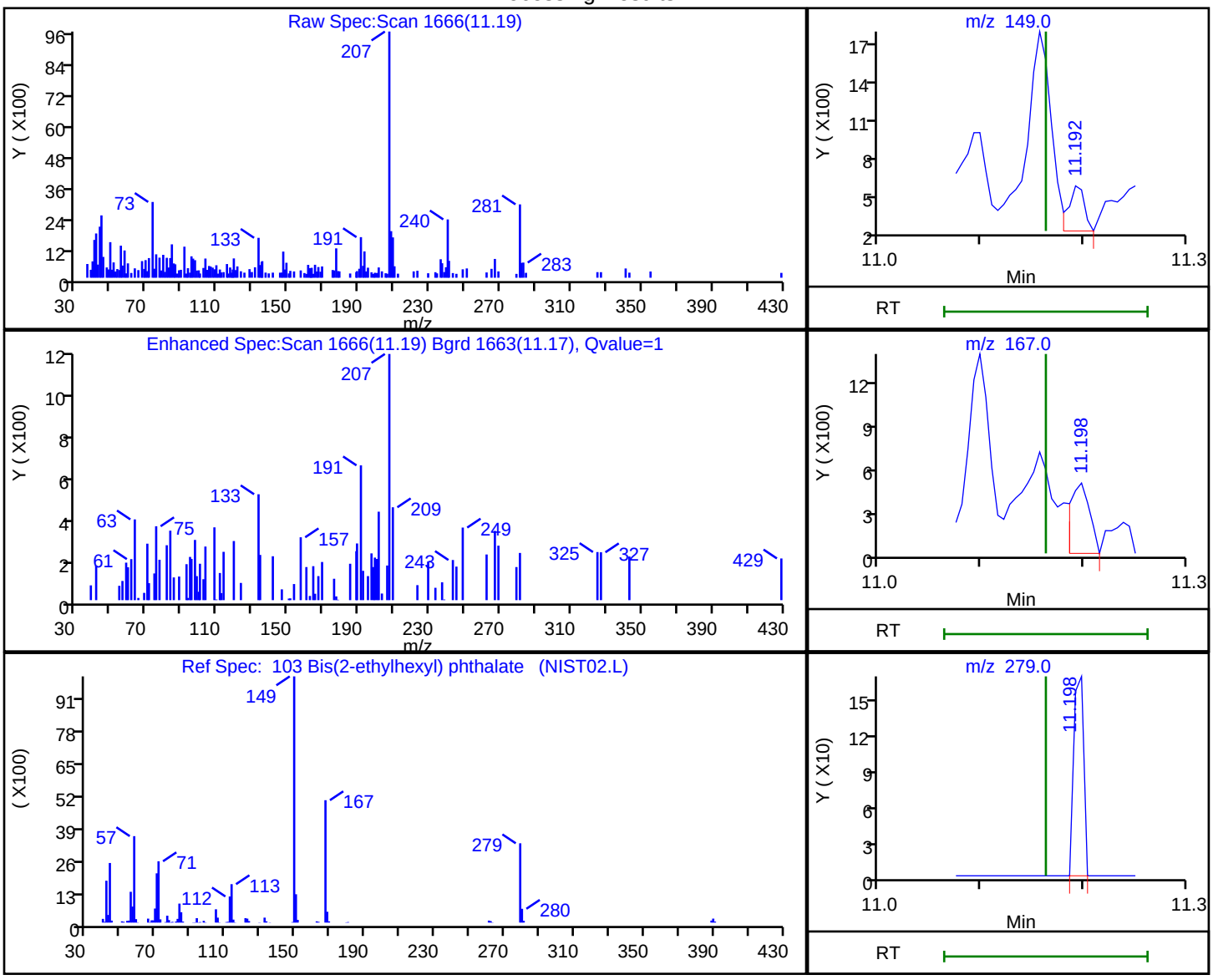
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d				
Injection Date:	11-Dec-2018 13:37:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

103 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Processing Results



RT	Mass	Response	Amount
11.19	149.00	380	0.002254
11.20	167.00	611	
11.20	279.00	110	

Reviewer: khlungprakhons, 12-Dec-2018 14:23:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

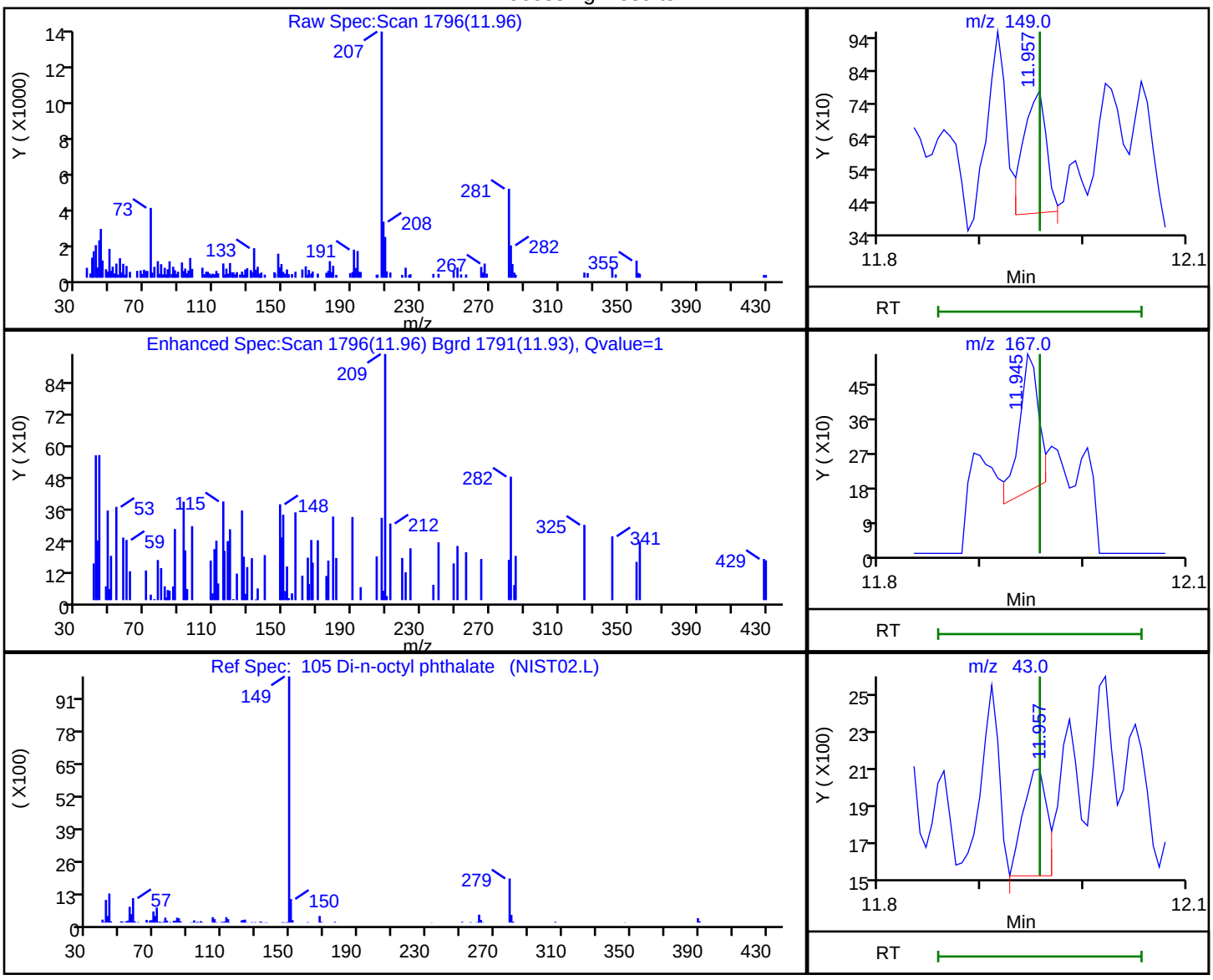
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179716.d				
Injection Date:	11-Dec-2018 13:37:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

105 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
11.96	149.00	594	0.002161
11.94	167.00	487	
11.96	43.00	920	

Reviewer: khlungprakhons, 12-Dec-2018 14:23:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018 | Lab Sample ID: 460-170982-4

Matrix: Water | Lab File ID: N179717.d

Analysis Method: 8270D | Date Collected: 12/05/2018 15:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2
108-60-1	2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.39	U	2.0	0.39
91-58-7	2-Chloronaphthalene	1.2	U	10	1.2
91-57-6	2-Methylnaphthalene	1.1	U	10	1.1
88-74-4	2-Nitroaniline	0.47	U *	10	0.47
91-94-1	3,3'-Dichlorobenzidine	1.4	U *	10	1.4
99-09-2	3-Nitroaniline	0.96	U *	10	0.96
101-55-3	4-Bromophenyl phenyl ether	0.75	U	10	0.75
106-47-8	4-Chloroaniline	1.9	U *	10	1.9
7005-72-3	4-Chlorophenyl phenyl ether	1.3	U	10	1.3
100-01-6	4-Nitroaniline	0.54	U *	10	0.54
98-86-2	Acetophenone	0.79	U	10	0.79
1912-24-9	Atrazine	1.3	U *	2.0	1.3
100-52-7	Benzaldehyde	0.59	U *	10	0.59
111-91-1	Bis(2-chloroethoxy)methane	0.24	U	10	0.24
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7
85-68-7	Butyl benzyl phthalate	0.85	U *	10	0.85
105-60-2	Caprolactam	0.68	U *	10	0.68
86-74-8	Carbazole	0.68	U	10	0.68
132-64-9	Dibenzofuran	1.1	U	10	1.1
84-66-2	Diethyl phthalate	0.98	U	10	0.98
131-11-3	Dimethyl phthalate	0.77	U	10	0.77
84-74-2	Di-n-butyl phthalate	0.84	U *	10	0.84
117-84-0	Di-n-octyl phthalate	4.8	U *	10	4.8
118-74-1	Hexachlorobenzene	0.40	U	1.0	0.40
87-68-3	Hexachlorobutadiene	0.78	U	1.0	0.78
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
67-72-1	Hexachloroethane	1.2	U	2.0	1.2
78-59-1	Isophorone	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.57	U	1.0	0.57
621-64-7	N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43
86-30-6	N-Nitrosodiphenylamine	0.89	U *	10	0.89

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018 | Lab Sample ID: 460-170982-4

Matrix: Water | Lab File ID: N179717.d

Analysis Method: 8270D | Date Collected: 12/05/2018 15:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	81		30-130
4165-60-0	Nitrobenzene-d5	85		30-130
1718-51-0	Terphenyl-d14	74		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018 | Lab Sample ID: 460-170982-4

Matrix: Water | Lab File ID: N179717.d

Analysis Method: 8270D | Date Collected: 12/05/2018 15:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 13:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179717.d
Lims ID: 460-170982-D-4-A
Client ID: 9999-23-FB-BK01-12052018
Sample Type: Client
Inject. Date: 11-Dec-2018 13:58:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083349-020
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 12-Dec-2018 14:43:40 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: khlungprakhons Date: 12-Dec-2018 14:24:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 14 1,4-Dichlorobenzene-d4	152	4.228	4.228	0.000	98	1121971	8.00	
$ 27 Nitrobenzene-d5	82	4.757	4.752	0.000	96	1703884	8.53	
* 38 Naphthalene-d8	136	5.445	5.446	-0.001	100	4288858	8.00	
$ 51 2-Fluorobiphenyl	172	6.475	6.475	-0.006	97	3133306	8.11	
* 64 Acenaphthene-d10	164	7.110	7.116	-0.006	98	1861114	8.00	
* 87 Phenanthrene-d10	188	8.510	8.516	-0.006	98	3286660	8.00	
$ 96 Terphenyl-d14	244	10.027	10.028	-0.006	99	2648313	7.38	
* 102 Chrysene-d12	240	11.098	11.104	-0.006	99	2510197	8.00	
* 109 Perylene-d12	264	12.915	12.916	-0.001	99	2569834	8.00	

Reagents:

SM_ISTD_LVI_00178 Amount Added: 20.00 Units: uL Run Reagent

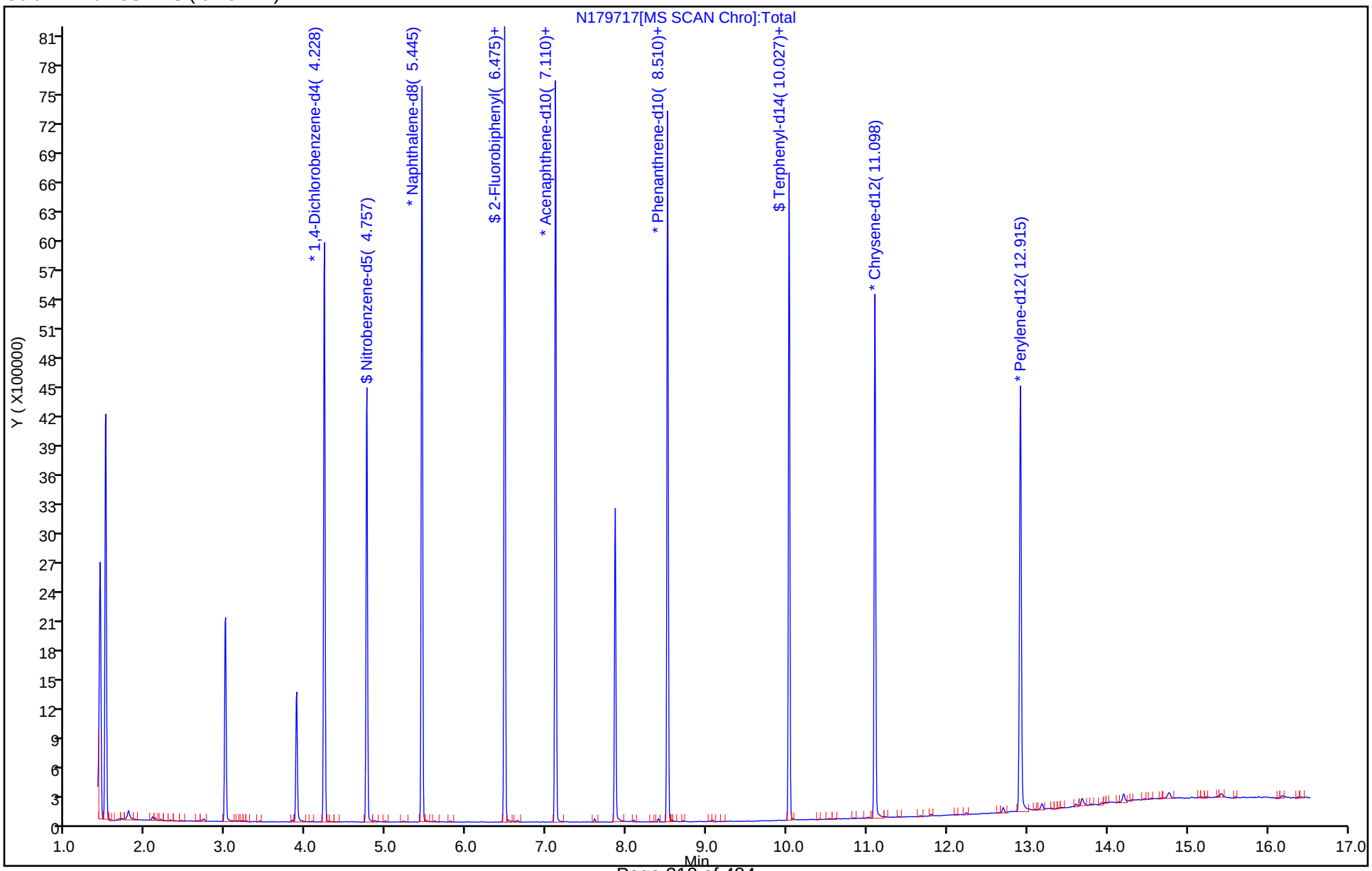
Report Date: 13-Dec-2018 14:36:10 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179717.d

Injection Date:	11-Dec-2018 13:58:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	460-170982-D-4-A	Lab Sample ID:	460-170982-4	Worklist Smp#:	20
Client ID:	9999-23-FB-BK01-12052018				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



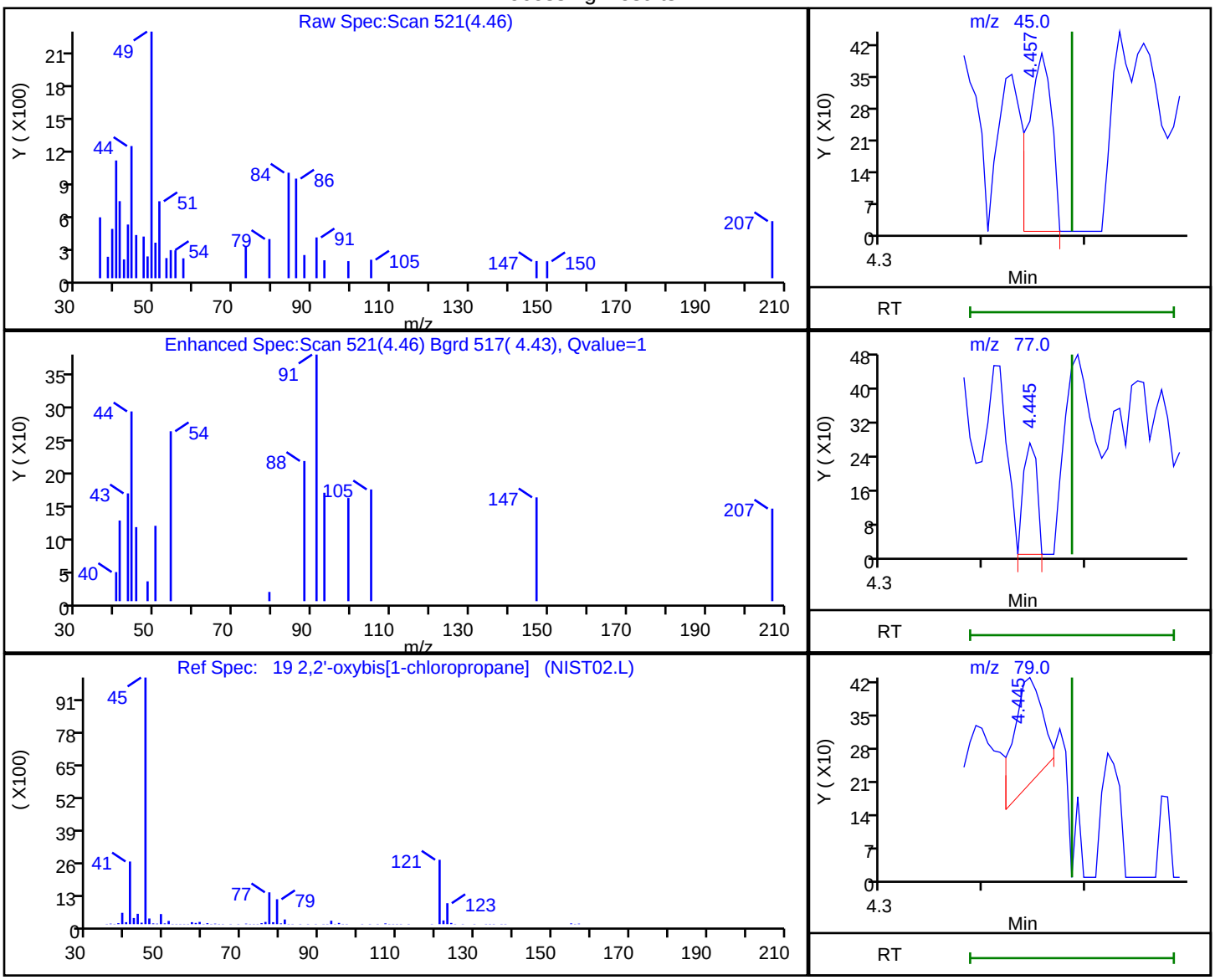
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179717.d				
Injection Date:	11-Dec-2018 13:58:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-D-4-A	Lab Sample ID:	460-170982-4		
Client ID:	9999-23-FB-BK01-12052018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

19 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

Processing Results



RT	Mass	Response	Amount
4.46	45.00	617	0.002471
4.45	77.00	243	
4.45	79.00	445	

Reviewer: khlungprakhons, 12-Dec-2018 14:24:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

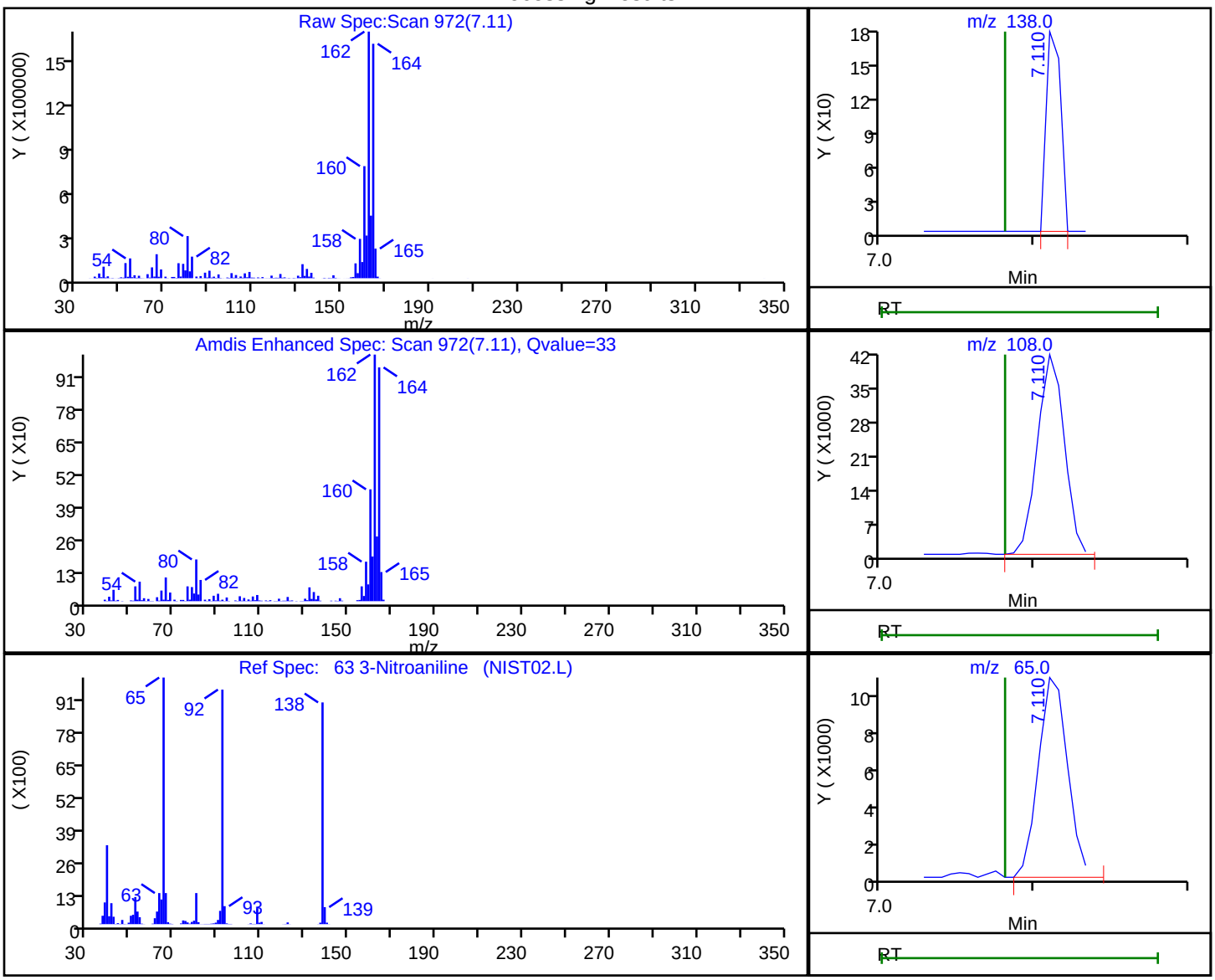
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179717.d				
Injection Date:	11-Dec-2018 13:58:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-D-4-A	Lab Sample ID:	460-170982-4		
Client ID:	9999-23-FB-BK01-12052018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

63 3-Nitroaniline, CAS: 99-09-2

Processing Results



RT	Mass	Response	Amount
7.11	138.00	117	0.001562
7.11	108.00	50504	
7.11	65.00	14115	

Reviewer: khlungprakhons, 12-Dec-2018 14:24:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

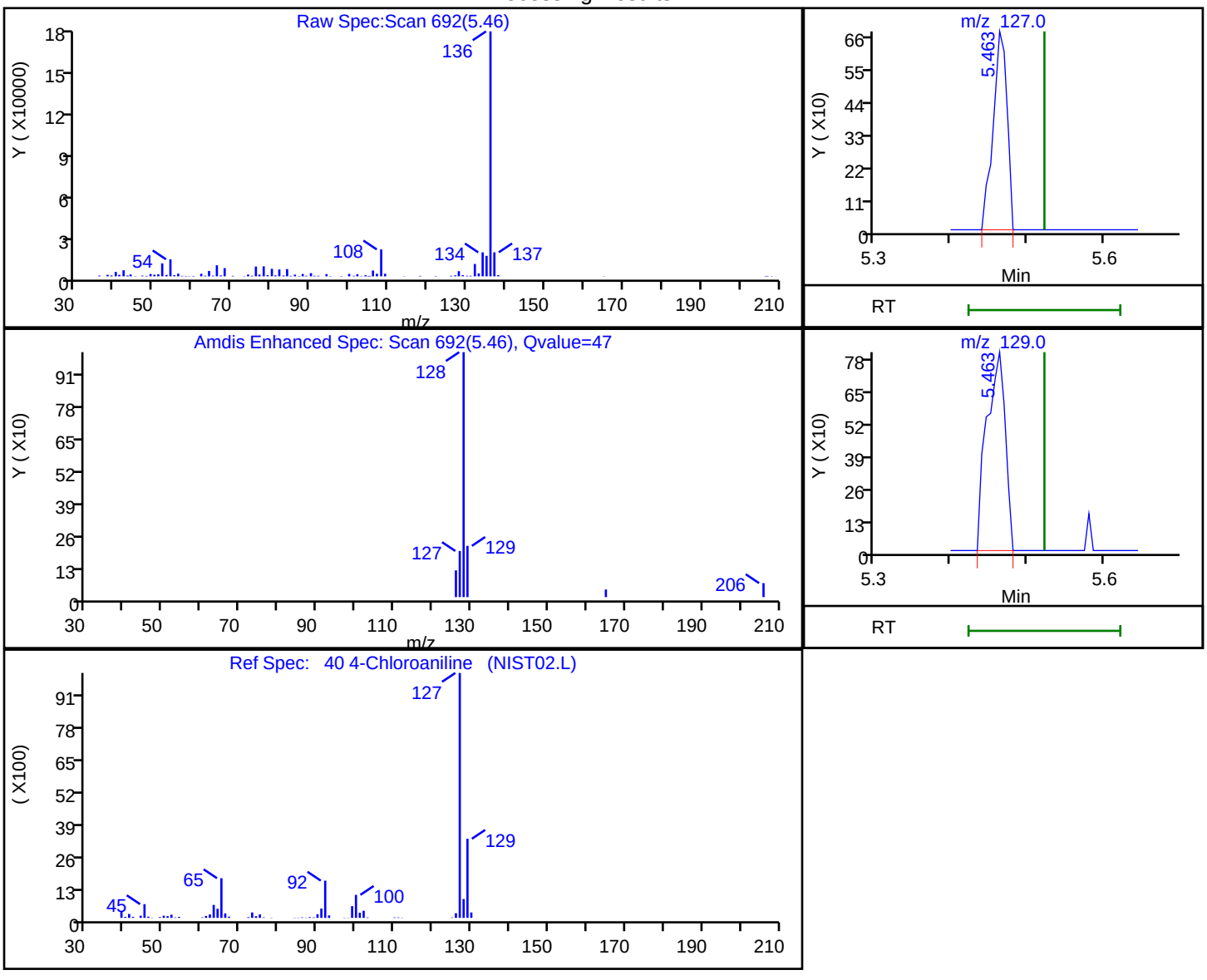
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179717.d				
Injection Date:	11-Dec-2018 13:58:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-D-4-A	Lab Sample ID:	460-170982-4		
Client ID:	9999-23-FB-BK01-12052018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

40 4-Chloroaniline, CAS: 106-47-8

Processing Results



RT	Mass	Response	Amount
5.46	127.00	862	0.003943
5.46	129.00	1359	

Reviewer: khlungprakhons, 12-Dec-2018 14:24:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

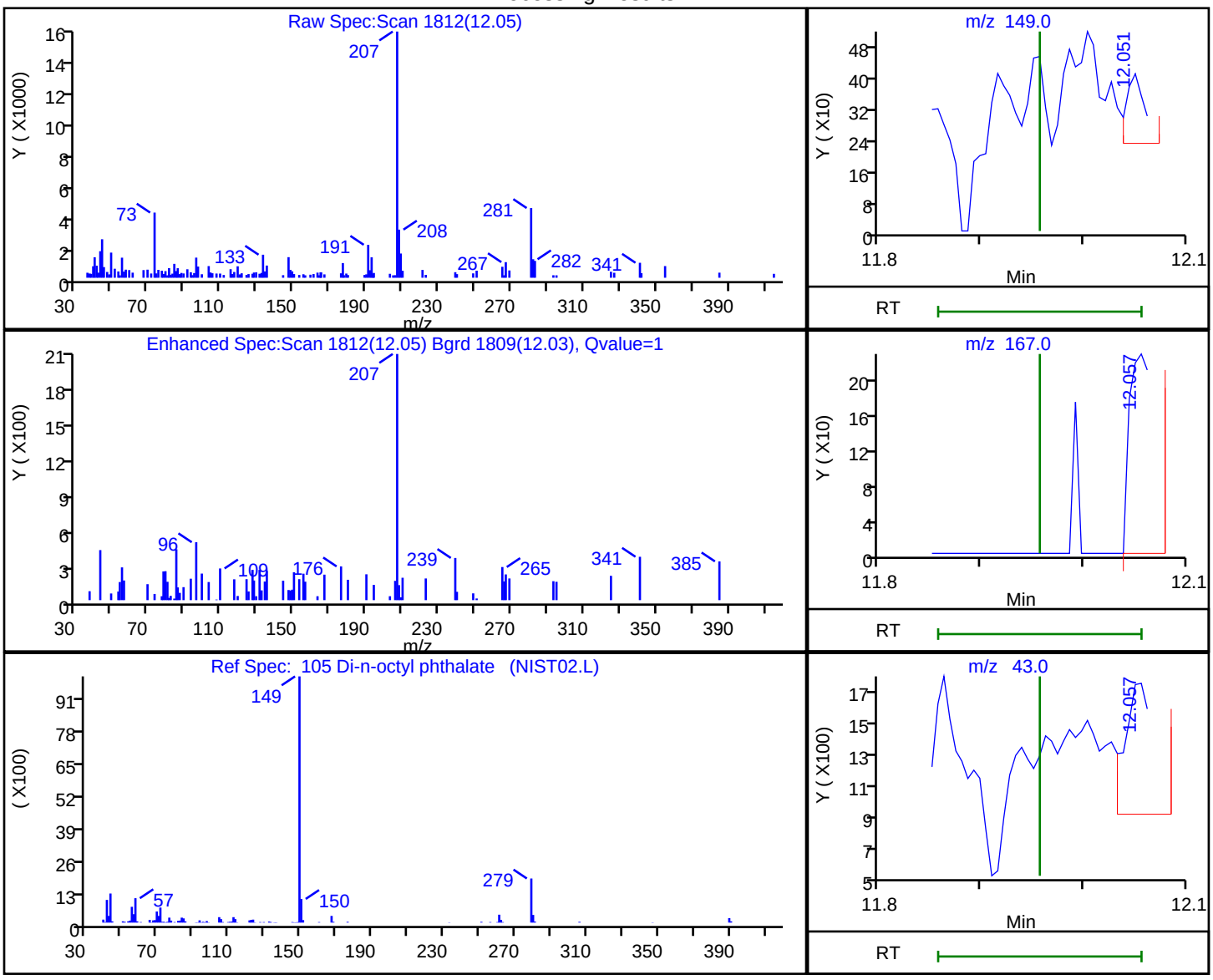
User Disabled Compound Report

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179717.d				
Injection Date:	11-Dec-2018 13:58:30	Instrument ID:	CBNAMS14		
Lims ID:	460-170982-D-4-A	Lab Sample ID:	460-170982-4		
Client ID:	9999-23-FB-BK01-12052018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

105 Di-n-octyl phthalate, CAS: 117-84-0

Processing Results



RT	Mass	Response	Amount
12.05	149.00	222	0.000740
12.06	167.00	421	
12.06	43.00	1643	

Reviewer: khlungprakhons, 12-Dec-2018 14:24:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 460-563162/9	N178598.d
Level 2	STD02 460-563162/8	N178597.d
Level 3	STD1 460-563162/7	N178596.d
Level 4	STD2 460-563162/6	N178595.d
Level 5	STD4 460-563162/5	N178594.d
Level 6	ICIS 460-563162/2	N178591.d
Level 7	STD16 460-563162/4	N178593.d
Level 8	STD24 460-563162/3	N178592.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								
1,4-Dioxane	0.5176	0.5678	0.5795 0.5482	0.5414	0.5187	Ave		0.5455				4.6		20.0			
N-Nitrosodimethylamine	0.7944	0.8766	0.8397 0.8649	0.8069	0.7808	Ave		0.8272				4.7		20.0			
Pyridine	1.3575	1.4086	1.4053 1.3563	1.4055	1.3412	Ave		1.3791				2.2		20.0			
Phenol	1.6431	1.7891	1.7424 1.8822	1.6966	1.6689	Ave		1.7370			0.8000	5.1		20.0			
Aniline	2.0174	2.2751	2.1839 2.2065	2.1135	2.0527	Ave		2.1415				4.6		20.0			
Bis(2-chloroethyl)ether	1.5861 1.3604	1.5111 1.4393	1.4807 1.3966	1.4157	1.3666	Ave		1.4446			0.7000	5.4		20.0			
2-Chlorophenol	1.3898	1.5191	1.5053 1.4680	1.4541	1.3969	Ave		1.4555			0.8000	3.7		20.0			
n-Decane	1.4282	1.4746	1.6673 1.3638	1.5573	1.5019	Ave		1.4989				7.0		20.0			
1,3-Dichlorobenzene	1.5259	1.6354	1.6784 1.5700	1.5706	1.5355	Ave		1.5860				3.7		20.0			
1,4-Dichlorobenzene	1.5128	1.6088	1.6833 1.5501	1.5740	1.5301	Ave		1.5765				3.9		20.0			
Benzyl alcohol	0.7794	0.8536	0.8307 0.8857	0.8413	0.7904	Ave		0.8302				4.8		20.0			
1,2-Dichlorobenzene	1.4426	1.5384	1.5678 1.4705	1.4909	1.4443	Ave		1.4924				3.4		20.0			
2-Methylphenol	1.1705	1.2578	1.3073 1.2017	1.2533	1.2118	Ave		1.2337			0.7000	4.0		20.0			
2,2'-oxybis[1-chloropropane]	1.6798	1.7075	2.0454 1.5637	1.8750	1.8099	Ave		1.7802			0.0100	9.5		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 Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

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								
3 & 4 Methylphenol	1.1888	1.2258	1.4390 1.1511	1.3676	1.2726	Ave		1.2741				8.6		20.0			
4-Methylphenol	1.1888	1.2258	1.4390 1.1511	1.3676	1.2726	Ave		1.2741			0.6000	8.6		20.0			
N-Nitrosodi-n-propylamine	0.8594 0.8125	0.9624 0.8318	0.9632 0.8013	0.8964	0.8530	Ave		0.8725			0.5000	7.2		20.0			
Acetophenone	1.6907	1.6858	2.0925 1.5804	1.9245	1.8107	Ave		1.7974			0.0100	10.4		20.0			
Hexachloroethane	0.6244 0.5650	0.6424 0.6210	0.6109 0.5891	0.5840	0.5780	Ave		0.6018			0.3000	4.4		20.0			
Nitrobenzene	0.5474 0.5896	0.6025 0.6310	0.6770 0.5902	0.6586	0.6375	Ave		0.6167			0.2000	6.8		20.0			
n,n'-Dimethylaniline	0.9833 1.9725	1.7995 1.9069	2.1973 1.8489	1.9600	1.9870	Lin2	-0.090	2.0232			0.0100				0.9920		0.9900
Isophorone	0.6058	0.6366 0.6351	0.6667 0.6207	0.6227	0.5908	Ave		0.6255			0.4000	3.9		20.0			
2-Nitrophenol	0.1581	0.1844	0.1449 0.1747	0.1513	0.1558	Ave		0.1615			0.1000	9.3		20.0			
2,4-Dimethylphenol	0.3090	0.2979	0.3325 0.3058	0.3098	0.2965	Ave		0.3086			0.2000	4.2		20.0			
Benzoic acid	0.1252	0.1449	0.0637 0.1732	0.0719	0.1082	Qua	-0.034	0.0954	0.0032909						1.0000		0.9900
Bis(2-chloroethoxy)methane	0.4074	0.4151	0.4373 0.4016	0.4112	0.3906	Ave		0.4105			0.3000	3.8		20.0			
2,4-Dichlorophenol	0.2860	0.2988	0.2879 0.2865	0.2716	0.2704	Ave		0.2835			0.2000	3.8		20.0			
1,2,4-Trichlorobenzene	0.3531 0.3295	0.3700 0.3409	0.3531 0.3258	0.3315	0.3177	Ave		0.3402				5.1		20.0			
Naphthalene	1.0000	1.0130	1.0858 0.9424	1.0189	0.9786	Ave		1.0065			0.7000	4.7		20.0			
4-Chloroaniline	0.4038	0.4077	0.4376 0.3925	0.4140	0.3909	Ave		0.4078			0.0100	4.2		20.0			
Hexachlorobutadiene	0.2068 0.1897	0.1982 0.1992	0.2013 0.1895	0.1872	0.1809	Ave		0.1941			0.0100	4.4		20.0			
4-Chloro-3-methylphenol	0.2744	0.2793	0.2700 0.2706	0.2672	0.2547	Ave		0.2694			0.2000	3.1		20.0			
2-Methylnaphthalene	0.6321	0.6947 0.6313	0.6837 0.6047	0.6417	0.6122	Ave		0.6429			0.4000	5.3		20.0			
1-Methylnaphthalene	0.5933	0.6500 0.5899	0.6373 0.5655	0.6030	0.5727	Ave		0.6017				5.2		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 Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

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								
Hexachlorocyclopentadiene	0.4036	0.5048	0.4096 0.4792	0.4078	0.4233	Ave		0.4380			0.0500	9.8		20.0			
1,2,4,5-Tetrachlorobenzene	0.6941	0.7341	0.7597 0.7026	0.6945	0.6895	Ave		0.7124			0.0100	4.0		20.0			
2-tertbutyl-4-methylphenol	0.3995	0.4117 0.3824	0.4131 0.3855	0.3749	0.3713	Ave		0.3912				4.4		20.0			
2,4,6-Trichlorophenol	0.4493	0.3645 0.4757	0.4726 0.4524	0.4067	0.4583	Ave		0.4399			0.2000	9.1		20.0			
2,4,5-Trichlorophenol	0.4733	0.5074	0.4543 0.5027	0.4997	0.4422	Ave		0.4799			0.2000	5.7		20.0			
1,1'-Biphenyl	1.7738	1.8277	1.8952 1.7051	1.8005	1.7426	Ave		1.7908			0.0100	3.7		20.0			
2-Chloronaphthalene	1.3523	1.4087	1.4731 1.3261	1.3621	1.3434	Ave		1.3776			0.8000	3.9		20.0			
Phenyl ether	0.8933	0.8934	0.9234 0.8925	0.8327	0.8485	Ave		0.8806				3.8		20.0			
2-Nitroaniline	0.4227	0.4726	0.4096 0.4525	0.4080	0.4231	Ave		0.4314			0.0100	6.0		20.0			
1,3-Dimethylnaphthalene	1.1237	1.1277	1.1854 1.0960	1.0526	1.0815	Ave		1.1111				4.1		20.0			
Dimethyl phthalate	1.3835	1.4346	1.4969 1.3721	1.3941	1.3660	Ave		1.4079			0.0100	3.5		20.0			
Coumarin	0.1818	0.1727	0.1983 0.1761	0.1778	0.1708	Ave		0.1796				5.5		20.0			
2,6-Dinitrotoluene	0.2991	0.1921 0.3261	0.2940 0.3127	0.2943	0.2948	Lin2	-0.024	0.3112			0.2000				0.9990		0.9900
Acenaphthylene	1.7901	1.9040	1.9282 1.8282	1.8285	1.8135	Ave		1.8487			0.9000	3.0		20.0			
3-Nitroaniline	0.3204	0.3521	0.2950 0.3419	0.3098	0.3133	Ave		0.3221			0.0100	6.6		20.0			
3,5-di-tert-butyl-4-hydroxytol	1.1819	1.2315	1.2695 1.2350	1.1210	1.1604	Ave		1.1999				4.6		20.0			
Acenaphthene	1.3198	1.3829	1.4022 1.1997	1.3217	1.2973	Ave		1.3206			0.9000	5.4		20.0			
2,4-Dinitrophenol	0.1197	0.1600	0.0630 0.1597	0.0846	0.1049	Qua	-0.235	0.1344	0.0006727		0.0100				0.9940		0.9900
4-Nitrophenol	0.2255	0.2519	0.1988 0.2500	0.2113	0.2160	Ave		0.2256			0.0100	9.5		20.0			
2,4-Dinitrotoluene	0.3813	0.2305 0.4156	0.3593 0.3971	0.3597	0.3692	Lin2	-0.033	0.3913			0.2000				0.9980		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 Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

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								
Dibenzofuran	1.7420	1.7636	1.9103 1.6770	1.7595	1.7015	Ave		1.7590			0.8000	4.6		20.0			
2,3,4,6-Tetrachlorophenol	0.3401	0.3691	0.3379 0.3610	0.3291	0.3262	Ave		0.3439			0.0100	5.1		20.0			
Diethyl phthalate	1.2951	1.3424	1.3502 1.3038	1.2883	1.2520	Ave		1.3053			0.0100	2.8		20.0			
4-Chlorophenyl phenyl ether	0.6582	0.6676	0.7244 0.6498	0.6742	0.6412	Ave		0.6692			0.4000	4.4		20.0			
Fluorene	1.2847	1.3074	1.4278 1.2520	1.3383	1.2786	Ave		1.3148			0.9000	4.8		20.0			
4-Nitroaniline	0.3040	0.3367	0.2754 0.3295	0.2856	0.2916	Ave		0.3038			0.0100	8.1		20.0			
4,6-Dinitro-2-methylphenol	0.0976	0.1223	0.0625 0.1190	0.0787	0.0908	Qua	-0.154	0.1112	0.0002600		0.0100				0.9950		0.9900
N-Nitrosodiphenylamine	0.5933	0.6239	0.6248 0.5957	0.5846	0.5788	Ave		0.6002			0.0100	3.3		20.0			
1,2-Diphenylhydrazine	0.8427	0.8706	0.8661 0.8349	0.8142	0.8024	Ave		0.8385				3.3		20.0			
4-Bromophenyl phenyl ether	0.2522	0.2674	0.2579 0.2604	0.2410	0.2403	Ave		0.2532			0.1000	4.3		20.0			
Hexachlorobenzene	0.3094 0.2987	0.3005 0.3213	0.2998 0.3145	0.2840	0.2823	Ave		0.3013			0.1000	4.5		20.0			
Pentachlorophenol	0.1546	0.1738	0.1302 0.1765	0.1385	0.1428	Ave		0.1527			0.0500	12.5		20.0			
Pentachloronitrobenzene	0.1108	0.1207	0.0996 0.1194	0.0957	0.1045	Ave		0.1084			0.0100	9.5		20.0			
n-Octadecane	0.5344	0.5493	0.5049 0.5216	0.4996	0.5068	Ave		0.5195				3.7		20.0			
Phenanthrene	1.1228	1.1679	1.2062 1.1152	1.1128	1.0876	Ave		1.1354			0.7000	3.8		20.0			
Anthracene	1.1605	1.2047	1.1989 1.1555	1.1312	1.1041	Ave		1.1591			0.7000	3.3		20.0			
Carbazole	0.9493	1.0047	0.9840 0.9730	0.9356	0.9012	Ave		0.9580			0.0100	3.9		20.0			
Di-n-butyl phthalate	1.0779	1.1765	0.9649 1.1275	0.9899	1.0122	Ave		1.0582			0.0100	7.9		20.0			
Fluoranthene	1.0651	1.1614	1.0487 1.1251	1.0243	1.0246	Ave		1.0749			0.6000	5.2		20.0			
Benzidine	0.4441	0.5440	0.2033 0.5266	0.3608	0.4107	Lin2	-0.324	0.5204			0.0100				0.9940		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 Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

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								
Pyrene	1.4273	1.4447	1.5323 1.3458	1.4387	1.3553	Ave		1.4240			0.6000	4.8		20.0			
Bisphenol-A	0.4451	0.4682	0.1842 0.5309	0.2934	0.3067	Qua	-0.259	0.3909	0.0062484						0.9990		0.9900
Butyl benzyl phthalate	0.5063	0.5617	0.3928 0.5385	0.4364	0.4542	Ave		0.4817			0.0100	13.4		20.0			
2,3,7,8-TCDD	0.2415					Ave		0.2415						20.0			
Carbamazepine	0.4941	0.5494	0.3225 0.5791	0.3419	0.4044	Qua	-0.288	0.4876	0.0044004						1.0000		0.9900
3,3'-Dichlorobenzidine	0.4837	0.2697 0.5407	0.4032 +++++	0.3980	0.4320	Qua	-0.015	0.3943	0.0091906		0.0100				1.0000		0.9900
Benzo[a]anthracene	1.1965 1.1792	1.2070 1.2580	1.1771 1.2433	1.1430	1.1165	Ave		1.1901			0.8000	4.0		20.0			
Chrysene	1.1848	1.1422 1.2455	1.1486 1.1798	1.0910	1.0712	Ave		1.1519			0.7000	5.1		20.0			
Bis(2-ethylhexyl) phthalate	0.6750	0.4007 0.7326	0.5522 +++++	0.5957	0.6004	QuaF		0.5690	0.0102672		0.0100				1.0000		0.9900
Di-n-octyl phthalate	0.9847	1.1016	0.7341 1.0371	0.8480	0.8942	Ave		0.9333			0.0100	14.4		20.0			
Benzo[b]fluoranthene	1.0181 1.1195	1.0662 1.2539	1.0933 1.2531	1.0761	1.0511	Ave		1.1164			0.7000	8.0		20.0			
Benzo[k]fluoranthene	1.2129 1.3092	1.2526 1.3163	1.2739 1.2321	1.2454	1.2616	Ave		1.2630			0.7000	2.8		20.0			
Benzo[a]pyrene	0.9629 1.1670	1.0072 1.2450	1.0464 1.2160	1.0419	1.0448	Ave		1.0914			0.7000	9.5		20.0			
Indeno[1,2,3-cd]pyrene	0.7903 1.2094	0.8734 1.3080	0.9870 1.4045	1.0402	1.0581	Ave		1.0838			0.5000	19.5		20.0			
Dibenz(a,h)anthracene	0.9539 1.2740	1.0179 1.3481	1.1019 1.3854	1.0875	1.0911	Ave		1.1575			0.4000	13.7		20.0			
Benzo[g,h,i]perylene	1.3223	1.4051	1.2079 1.4590	1.1706	1.1656	Ave		1.2884			0.5000	9.8		20.0			
2-Fluorophenol (Surr)	1.4382	1.5372 1.5785	1.4743 1.5934	1.4173	1.3694	Ave		1.4869				5.7		20.0			
Phenol-d5 (Surr)	1.7714 1.6582	1.8121 1.7932	1.6891 1.8023	1.6473	1.6103	Ave		1.7230				4.7		20.0			
Nitrobenzene-d5	0.3553 0.3699	0.3663 0.4083	0.3628 0.4023	0.3632	0.3527	Ave		0.3726				5.6		20.0			
2-Fluorobiphenyl	1.8481 1.6066	1.7587 1.6810	1.6415 1.6264	1.5742	1.5526	Ave		1.6611				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
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

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								
2,4,6-Tribromophenol (Surr)	0.2543	0.1970 0.2865	0.2322 0.3001	0.2323	0.2381	Ave		0.2486				14.2		20.0			
Terphenyl-d14	1.2513 1.1191	1.1974 1.1640	1.1329 1.1545	1.0791	1.0493	Ave		1.1434				5.6		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 Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 460-563162/9	N178598.d
Level 2	STD02 460-563162/8	N178597.d
Level 3	STD1 460-563162/7	N178596.d
Level 4	STD2 460-563162/6	N178595.d
Level 5	STD4 460-563162/5	N178594.d
Level 6	ICIS 460-563162/2	N178591.d
Level 7	STD16 460-563162/4	N178593.d
Level 8	STD24 460-563162/3	N178592.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	558771	984818	76278 1223608	152304	264747	10.0	16.0	1.00 24.0	2.00	4.00
N-Nitrosodimethylamine	DCBd 4	Ave	857556	1520610	110526 1930561	227017	398542	10.0	16.0	1.00 24.0	2.00	4.00
Pyridine	DCBd 4	Ave	2930764	4886698	369945 6055124	790826	1369245	20.0	32.0	2.00 48.0	4.00	8.00
Phenol	DCBd 4	Ave	1773663	3103311	229337 4201356	477303	851900	10.0	16.0	1.00 24.0	2.00	4.00
Aniline	DCBd 4	Ave	2177707	3946413	287453 4925347	594580	1047819	10.0	16.0	1.00 24.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd 4	Ave	20018 1468570	36704 2496589	194899 3117425	398276	697607	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Chlorophenol	DCBd 4	Ave	1500232	2634971	198138 3276765	409068	713066	10.0	16.0	1.00 24.0	2.00	4.00
n-Decane	DCBd 4	Ave	1541751	2557754	219452 3044293	438128	766662	10.0	16.0	1.00 24.0	2.00	4.00
1,3-Dichlorobenzene	DCBd 4	Ave	1647154	2836641	220925 3504491	441870	783799	10.0	16.0	1.00 24.0	2.00	4.00
1,4-Dichlorobenzene	DCBd 4	Ave	1633051	2790510	221560 3460052	442810	781021	10.0	16.0	1.00 24.0	2.00	4.00
Benzyl alcohol	DCBd 4	Ave	841290	1480639	109345 1977044	236672	403440	10.0	16.0	1.00 24.0	2.00	4.00
1,2-Dichlorobenzene	DCBd 4	Ave	1557228	2668442	206355 3282346	419424	737262	10.0	16.0	1.00 24.0	2.00	4.00
2-Methylphenol	DCBd 4	Ave	1263512	2181836	172078 2682319	352579	618559	10.0	16.0	1.00 24.0	2.00	4.00
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	1813282	2961873	269225 3490533	527501	923850	10.0	16.0	1.00 24.0	2.00	4.00
3 & 4 Methylphenol	DCBd 4	Ave	1283245	2126312	189402 2569479	384748	649577	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Methylphenol	DCBd 4	Ave	1283245	2126312	189402 2569479	384748	649577	10.0	16.0	1.00 24.0	2.00	4.00
N-Nitrosodi-n-propylamine	DCBd 4	Ave	10846 877071	23376 1442758	126777 1788614	252182	435403	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Acetophenone	DCBd 4	Ave	1825017	2924213	275420 3527723	541425	924268	10.0	16.0	1.00 24.0	2.00	4.00
Hexachloroethane	DCBd 4	Ave	7881 609871	15603 1077100	80405 1315075	164285	295042	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Nitrobenzene	DCBd 4	Ave	6908 636425	14634 1094441	89106 1317536	185290	325418	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
n,n'-Dimethylaniline	DCBd 4	Lin2	12410 2129297	43709 3307661	289217 4126981	551409	1014249	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Isophorone	NPT	Ave	2319552	58648 3997694	328990 5035749	659321	1138132	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Nitrophenol	NPT	Ave	605338	1160798	71492 1417473	160196	300203	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dimethylphenol	NPT	Ave	1182905	1875234	164069 2481100	328015	571148	10.0	16.0	1.00 24.0	2.00	4.00
Benzoic acid	NPT	Qua	479494	912201	31434 1404870	76182	208514	10.0	16.0	1.00 24.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	1559782	2612843	215797 3258091	435362	752390	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dichlorophenol	NPT	Ave	1094915	1881019	142086 2323907	287586	520852	10.0	16.0	1.00 24.0	2.00	4.00
1,2,4-Trichlorobenzene	NPT	Ave	16763 1261364	34087 2145794	174272 2643509	351050	611992	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Naphthalene	NPT	Ave	3828880	6376454	535847 7645533	1078820	1884995	10.0	16.0	1.00 24.0	2.00	4.00
4-Chloroaniline	NPT	Ave	1546159	2566341	215954 3183939	438384	753001	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	9816 726332	18261 1254056	99333 1537348	198182	348412	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
4-Chloro-3-methylphenol	NPT	Ave	1050719	1757863	133243 2195102	282969	490672	10.0	16.0	1.00 24.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	2420181	63999 3973910	337394 4905880	679500	1179285	10.0	0.200 16.0	1.00 24.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	2271568	59886 3712842	314508 4587659	638487	1103143	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Hexachlorocyclopentadiene	ANT	Ave	639380	1246387	84871 1557846	181608	328543	10.0	16.0	1.00 24.0	2.00	4.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	1099524	1812666	157428 2283849	309340	535192	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-tertbutyl-4-methylphenol	NPT	Ave	1529454	37927 2406684	203842 3127672	396956	715228	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Ave	711676	14274 1174681	97932 1470487	181136	355773	10.0	0.200 16.0	1.00 24.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Ave	749789	1252744	94129 1634140	222580	343287	10.0	16.0	1.00 24.0	2.00	4.00
1,1'-Biphenyl	ANT	Ave	2809825	4512786	392714 5542826	801912	1352647	10.0	16.0	1.00 24.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	2142053	3478361	305234 4310824	606652	1042812	10.0	16.0	1.00 24.0	2.00	4.00
Phenyl ether	ANT	Ave	1415107	2205921	191333 2901343	370869	658616	10.0	16.0	1.00 24.0	2.00	4.00
2-Nitroaniline	ANT	Ave	669605	1167038	84878 1470809	181697	328407	10.0	16.0	1.00 24.0	2.00	4.00
1,3-Dimethylnaphthalene	ANT	Ave	1780047	2784455	245619 3562872	468804	839473	10.0	16.0	1.00 24.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	2191601	3542210	310179 4460390	620931	1060379	10.0	16.0	1.00 24.0	2.00	4.00
Coumarin	NPT	Ave	696129	1087053	97865 1428859	188277	328970	10.0	16.0	1.00 24.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Lin2	473827	7522 805186	60930 1016590	131074	228801	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Acenaphthylene	ANT	Ave	2835628	4701157	399540 5942952	814374	1407691	10.0	16.0	1.00 24.0	2.00	4.00
3-Nitroaniline	ANT	Ave	507566	869428	61122 1111399	137960	243196	10.0	16.0	1.00 24.0	2.00	4.00
3,5-di-tert-butyl-4-hydroxytol	ANT	Ave	1872274	3040849	263061 4014707	499255	900750	10.0	16.0	1.00 24.0	2.00	4.00
Acenaphthene	ANT	Ave	2090673	3414521	290554 3900010	588645	1007015	10.0	16.0	1.00 24.0	2.00	4.00
2,4-Dinitrophenol	ANT	Qua	379109	789996	26096 1038027	75342	162779	20.0	32.0	2.00 48.0	4.00	8.00
4-Nitrophenol	ANT	Ave	714559	1243834	82385 1625566	188244	335266	20.0	32.0	2.00 48.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Lin2	604069	9026 1026082	74449 1290941	160220	286562	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Dibenzofuran	ANT	Ave	2759431	4354618	395827 5451414	783633	1320740	10.0	16.0	1.00 24.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	538712	911290	70008 1173537	146559	253186	10.0	16.0	1.00 24.0	2.00	4.00
Diethyl phthalate	ANT	Ave	2051510	3314531	279775 4238202	573781	971887	10.0	16.0	1.00 24.0	2.00	4.00

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Chlorophenyl phenyl ether	ANT	Ave	1042675	1648425	150099 2112324	300285	497731	10.0	16.0	1.00 24.0	2.00	4.00
Fluorene	ANT	Ave	2034999	3228243	295859 4070016	596076	992461	10.0	16.0	1.00 24.0	2.00	4.00
4-Nitroaniline	ANT	Ave	481536	831459	57074 1071264	127193	226370	10.0	16.0	1.00 24.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Qua	496541	958080	41732 1240868	113899	226435	20.0	32.0	2.00 48.0	4.00	8.00
N-Nitrosodiphenylamine	PHN	Ave	1509318	2443677	208574 3104964	423127	721964	10.0	16.0	1.00 24.0	2.00	4.00
1,2-Diphenylhydrazine	PHN	Ave	2143656	3409973	289117 4351799	589331	1000909	10.0	16.0	1.00 24.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	641630	1047457	86090 1357367	174452	299743	10.0	16.0	1.00 24.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	10125 759838	19597 1258530	100066 1639453	205535	352167	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Pentachlorophenol	PHN	Ave	786680	1361181	86948 1839641	200436	356266	20.0	32.0	2.00 48.0	4.00	8.00
Pentachloronitrobenzene	PHN	Ave	281977	472632	33253 622104	69240	130377	10.0	16.0	1.00 24.0	2.00	4.00
n-Octadecane	PHN	Ave	1359337	2151344	168550 2718883	361646	632229	10.0	16.0	1.00 24.0	2.00	4.00
Phenanthrene	PHN	Ave	2856102	4574206	402662 5812458	805420	1356671	10.0	16.0	1.00 24.0	2.00	4.00
Anthracene	PHN	Ave	2952042	4718434	400199 6022421	818732	1377284	10.0	16.0	1.00 24.0	2.00	4.00
Carbazole	PHN	Ave	2414712	3934845	328466 5071147	677204	1124220	10.0	16.0	1.00 24.0	2.00	4.00
Di-n-butyl phthalate	PHN	Ave	2741902	4607878	322108 5876485	716519	1262604	10.0	16.0	1.00 24.0	2.00	4.00
Fluoranthene	PHN	Ave	2709250	4548704	350085 5864317	741405	1278104	10.0	16.0	1.00 24.0	2.00	4.00
Benzidine	PHN	Lin2	1129801	2130515	67874 2744735	261142	512345	10.0	16.0	1.00 24.0	2.00	4.00
Pyrene	CRY	Ave	2759259	4608834	360074 5929337	752862	1265461	10.0	16.0	1.00 24.0	2.00	4.00
Bisphenol-A	CRY	Qua	860533	1493543	43295 2338978	153539	286394	10.0	16.0	1.00 24.0	2.00	4.00
Butyl benzyl phthalate	CRY	Ave	978819	1792007	92308 2372700	228344	424128	10.0	16.0	1.00 24.0	2.00	4.00
2,3,7,8-TCDD	CRY	Ave	4669					0.100				

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 19:51 Calibration End Date: 10/25/2018 22:30 Calibration ID: 71731

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Carbamazepine	CRY	Qua	955250	1752712	75782 2551527	178896	377631	10.0	16.0	1.00 24.0	2.00	4.00
3,3'-Dichlorobenzidine	CRY	Qua	935027	12454 1724865	94747 +++++	208281	403360	10.0	0.200 16.0	1.00 +++++	2.00	4.00
Benzo[a]anthracene	CRY	Ave	25655 2279532	55735 4013398	276600 5477908	598130	1042495	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Chrysene	CRY	Ave	2290302	52745 3973397	269904 5198231	570921	1000204	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Bis(2-ethylhexyl) phthalate	CRY	QuaF	1304909	18505 2337052	129765 +++++	311712	560577	10.0	0.200 16.0	1.00 +++++	2.00	4.00
Di-n-octyl phthalate	PRY	Ave	2133609	4041763	178459 5507278	452791	867000	10.0	16.0	1.00 24.0	2.00	4.00
Benzo[b]fluoranthene	PRY	Ave	21535 2425717	49175 4600476	265792 6654262	574610	1019174	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[k]fluoranthene	PRY	Ave	25656 2836689	57775 4829397	309689 6542682	665005	1223299	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[a]pyrene	PRY	Ave	20368 2528557	46456 4567740	254384 6456805	556329	1013105	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	16716 2620368	40281 4798813	239938 7457967	555404	1025917	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Ave	20178 2760461	46950 4946109	267881 7356846	580701	1057989	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Benzo[g,h,i]perylene	PRY	Ave	2865158	5155246	293652 7747321	625058	1130165	10.0	16.0	1.00 24.0	2.00	4.00
2-Fluorophenol (Surr)	DCBd 4	Ave	1552458	37337 2738011	194052 3556766	398719	698998	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Phenol-d5 (Surr)	DCBd 4	Ave	22357 1789995	44014 3110455	222322 4023116	463432	821965	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
Nitrobenzene-d5	NPT	Ave	16867 1416174	33747 2570160	179029 3263368	384623	679353	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	36883 2544876	68866 4150672	340138 5286839	701139	1205153	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	402882	7714 707370	48113 975603	103456	184811	10.0	0.200 16.0	1.00 24.0	2.00	4.00
Terphenyl-d14	CRY	Ave	26829 2163278	55292 3713450	266231 5086535	564711	979760	0.100 10.0	0.200 16.0	1.00 24.0	2.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178591.d
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 25-Oct-2018 19:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-002
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:22:38 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: hamziy Date: 25-Oct-2018 20:20:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.893	1.893	0.000	98	558771	10.0	9.49	
2 N-Nitrosodimethylamine	74	2.099	2.099	0.000	88	857556	10.0	9.60	
3 Pyridine	79	2.134	2.134	0.000	89	2930764	20.0	19.7	
$ 4 2-Fluorophenol	112	3.210	3.210	0.000	95	1552458	10.0	9.67	
$ 6 Phenol-d5	99	4.081	4.081	0.000	96	1789995	10.0	9.62	
7 Phenol	94	4.092	4.092	0.000	98	1773663	10.0	9.46	
8 Aniline	93	4.128	4.128	0.000	98	2177707	10.0	9.42	
9 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	96	1468570	10.0	9.42	
10 Benzonitrile	103	4.204	4.204	0.000	99	2839783	NC	NC	
11 2-Chlorophenol	128	4.245	4.245	0.000	96	1500232	10.0	9.55	
12 n-Decane	43	4.292	4.292	0.000	89	1541751	10.0	9.53	
13 1,3-Dichlorobenzene	146	4.392	4.392	0.000	95	1647154	10.0	9.62	
* 14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	97	863580	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.463	4.463	0.000	96	1633051	10.0	9.60	
16 Benzyl alcohol	108	4.569	4.569	0.000	93	841290	10.0	9.39	
17 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	1557228	10.0	9.67	
18 2-Methylphenol	108	4.675	4.675	0.000	90	1263512	10.0	9.49	
19 2,2'-oxybis[1-chloropropan	45	4.698	4.698	0.000	94	1813282	10.0	9.44	
20 N-Methylaniline	106	4.816	4.816	0.000	93	1936225	10.0	9.27	
24 4-Methylphenol	108	4.822	4.822	0.000	80	1283245	10.0	9.33	
23 3 & 4 Methylphenol	108	4.822	4.822	0.000	98	1283245	10.0	9.33	
22 N-Nitrosodi-n-propylamine	70	4.828	4.828	0.000	88	877071	10.0	9.31	
21 Acetophenone	105	4.828	4.828	0.000	90	1825017	10.0	9.41	
25 Hexachloroethane	117	4.934	4.934	0.000	94	609871	10.0	9.39	
$ 27 Nitrobenzene-d5	82	4.969	4.969	0.000	91	1416174	10.0	9.93	
28 Nitrobenzene	123	4.987	4.987	0.000	92	636425	10.0	9.56	
29 n,n'-Dimethylaniline	120	4.992	4.992	0.000	92	2129297	10.0	9.79	
30 Isophorone	82	5.216	5.216	0.000	99	2319552	10.0	9.69	
32 2-Nitrophenol	139	5.292	5.292	0.000	91	605338	10.0	9.79	
33 2,4-Dimethylphenol	122	5.328	5.328	0.000	91	1182905	10.0	10.0	
35 Benzoic acid	122	5.416	5.416	0.000	60	479494	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.422	5.422	0.000	99	1559782	10.0	9.92	
36 2,4-Dichlorophenol	162	5.522	5.522	0.000	96	1094915	10.0	10.1	
37 1,2,4-Trichlorobenzene	180	5.604	5.604	0.000	94	1261364	10.0	9.68	
* 38 Naphthalene-d8	136	5.657	5.657	0.000	99	3062954	8.00	8.00	
39 Naphthalene	128	5.675	5.675	0.000	99	3828880	10.0	9.94	
40 4-Chloroaniline	127	5.722	5.722	0.000	96	1546159	10.0	9.90	
41 Hexachlorobutadiene	225	5.804	5.804	0.000	96	726332	10.0	9.77	
43 4-Chloro-3-methylphenol	107	6.181	6.181	0.000	97	1050719	10.0	10.2	
44 2-Methylnaphthalene	142	6.334	6.334	0.000	85	2420181	10.0	9.83	
45 1-Methylnaphthalene	142	6.428	6.428	0.000	92	2271568	10.0	9.86	
46 Hexachlorocyclopentadiene	237	6.492	6.492	0.000	97	639380	10.0	9.21	
47 1,2,4,5-Tetrachlorobenzene	216	6.498	6.498	0.000	97	1099524	10.0	9.74	
48 2-tertbutyl-4-methylphenol	149	6.522	6.522	0.000	90	1529454	10.0	10.2	
49 2,4,6-Trichlorophenol	196	6.598	6.598	0.000	88	711676	10.0	10.2	
50 2,4,5-Trichlorophenol	196	6.628	6.628	0.000	96	749789	10.0	9.86	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	98	2544876	10.0	9.67	
52 1,1'-Biphenyl	154	6.775	6.775	0.000	95	2809825	10.0	9.91	
53 2-Chloronaphthalene	162	6.792	6.792	0.000	97	2142053	10.0	9.82	
54 Phenyl ether	170	6.875	6.875	0.000	87	1415107	10.0	10.1	
55 2-Nitroaniline	65	6.886	6.886	0.000	97	669605	10.0	9.80	
57 1,3-Dimethylnaphthalene	156	6.998	6.998	0.000	92	1780047	10.0	10.1	
59 Dimethyl phthalate	163	7.063	7.063	0.000	98	2191601	10.0	9.83	
60 Coumarin	146	7.081	7.081	0.000	77	696129	10.0	10.1	
61 2,6-Dinitrotoluene	165	7.116	7.116	0.000	95	473827	10.0	9.69	
62 Acenaphthylene	152	7.186	7.186	0.000	98	2835628	10.0	9.68	
63 3-Nitroaniline	138	7.275	7.275	0.000	94	507566	10.0	9.95	
* 64 Acenaphthene-d10	164	7.322	7.322	0.000	97	1267245	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.339	7.339	0.000	98	1872274	10.0	9.85	
66 Acenaphthene	154	7.351	7.351	0.000	95	2090673	10.0	10.0	
67 2,4-Dinitrophenol	184	7.375	7.375	0.000	97	379109	20.0	17.9	
68 4-Nitrophenol	65	7.433	7.433	0.000	89	714559	20.0	20.0	
69 2,4-Dinitrotoluene	165	7.498	7.498	0.000	95	604069	10.0	9.83	
70 Dibenzofuran	168	7.510	7.510	0.000	95	2759431	10.0	9.90	
72 2,3,4,6-Tetrachlorophenol	232	7.628	7.628	0.000	92	538712	10.0	9.89	
73 Diethyl phthalate	149	7.733	7.733	0.000	98	2051510	10.0	9.92	
74 4-Chlorophenyl phenyl ethe	204	7.833	7.833	0.000	86	1042675	10.0	9.84	
75 Fluorene	166	7.833	7.833	0.000	94	2034999	10.0	9.77	
76 4-Nitroaniline	138	7.851	7.851	0.000	92	481536	10.0	10.0	
77 4,6-Dinitro-2-methylphenol	198	7.880	7.880	0.000	85	496541	20.0	18.2	
78 N-Nitrosodiphenylamine	169	7.945	7.945	0.000	98	1509318	10.0	9.89	
79 1,2-Diphenylhydrazine	77	7.986	7.986	0.000	95	2143656	10.0	10.1	
$ 80 2,4,6-Tribromophenol	330	8.063	8.063	0.000	93	402882	10.0	10.2	
81 4-Bromophenyl phenyl ether	248	8.298	8.298	0.000	91	641630	10.0	9.96	
82 Hexachlorobenzene	284	8.363	8.363	0.000	96	759838	10.0	9.91	
84 Pentachlorophenol	266	8.545	8.545	0.000	94	786680	20.0	20.2	
85 Pentachloronitrobenzene	237	8.557	8.557	0.000	90	281977	10.0	10.2	
86 n-Octadecane	57	8.627	8.627	0.000	91	1359337	10.0	10.3	
* 87 Phenanthrene-d10	188	8.722	8.722	0.000	98	2035020	8.00	8.00	
88 Phenanthrene	178	8.739	8.739	0.000	97	2856102	10.0	9.89	
89 Anthracene	178	8.786	8.786	0.000	99	2952042	10.0	10.0	
90 Carbazole	167	8.939	8.939	0.000	96	2414712	10.0	9.91	
91 Di-n-butyl phthalate	149	9.275	9.275	0.000	99	2741902	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.869	9.869	0.000	98	2709250	10.0	9.91	
93 Benzidine	184	9.992	9.992	0.000	99	1129801	10.0	9.16	
94 Pyrene	202	10.080	10.080	0.000	98	2759259	10.0	10.0	
95 Bisphenol-A	213	10.127	10.127	0.000	98	860533	10.0	10.3	
$ 96 Terphenyl-d14	244	10.233	10.233	0.000	98	2163278	10.0	9.79	
97 Butyl benzyl phthalate	149	10.733	10.733	0.000	98	978819	10.0	10.5	
98 2,3,7,8-TCDD	320	10.833	10.833	0.000	93	4669	0.1000	0.1000	
99 Carbamazepine	193	10.845	10.845	0.000	93	955250	10.0	9.85	
100 3,3'-Dichlorobenzidine	252	11.316	11.316	0.000	99	935027	10.0	9.98	
101 Benzo[a]anthracene	228	11.339	11.339	0.000	98	2279532	10.0	9.91	
* 102 Chrysene-d12	240	11.351	11.351	0.000	99	1546508	8.00	8.00	
104 Chrysene	228	11.380	11.380	0.000	99	2290302	10.0	10.3	
103 Bis(2-ethylhexyl) phthalat	149	11.392	11.392	0.000	88	1304909	10.0	10.0	
105 Di-n-octyl phthalate	149	12.227	12.227	0.000	97	2133609	10.0	10.6	
106 Benzo[b]fluoranthene	252	12.710	12.710	0.000	98	2425717	10.0	10.0	
107 Benzo[k]fluoranthene	252	12.745	12.745	0.000	99	2836689	10.0	10.4	
108 Benzo[a]pyrene	252	13.162	13.162	0.000	99	2528557	10.0	10.7	
* 109 Perylene-d12	264	13.239	13.239	0.000	100	1733374	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.804	14.804	0.000	98	2620368	10.0	11.2	
111 Dibenz(a,h)anthracene	278	14.845	14.845	0.000	97	2760461	10.0	11.0	
112 Benzo[g,h,i]perylene	276	15.239	15.239	0.000	98	2865158	10.0	10.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_BNAL6_00053 Amount Added: 1.00 Units: mL

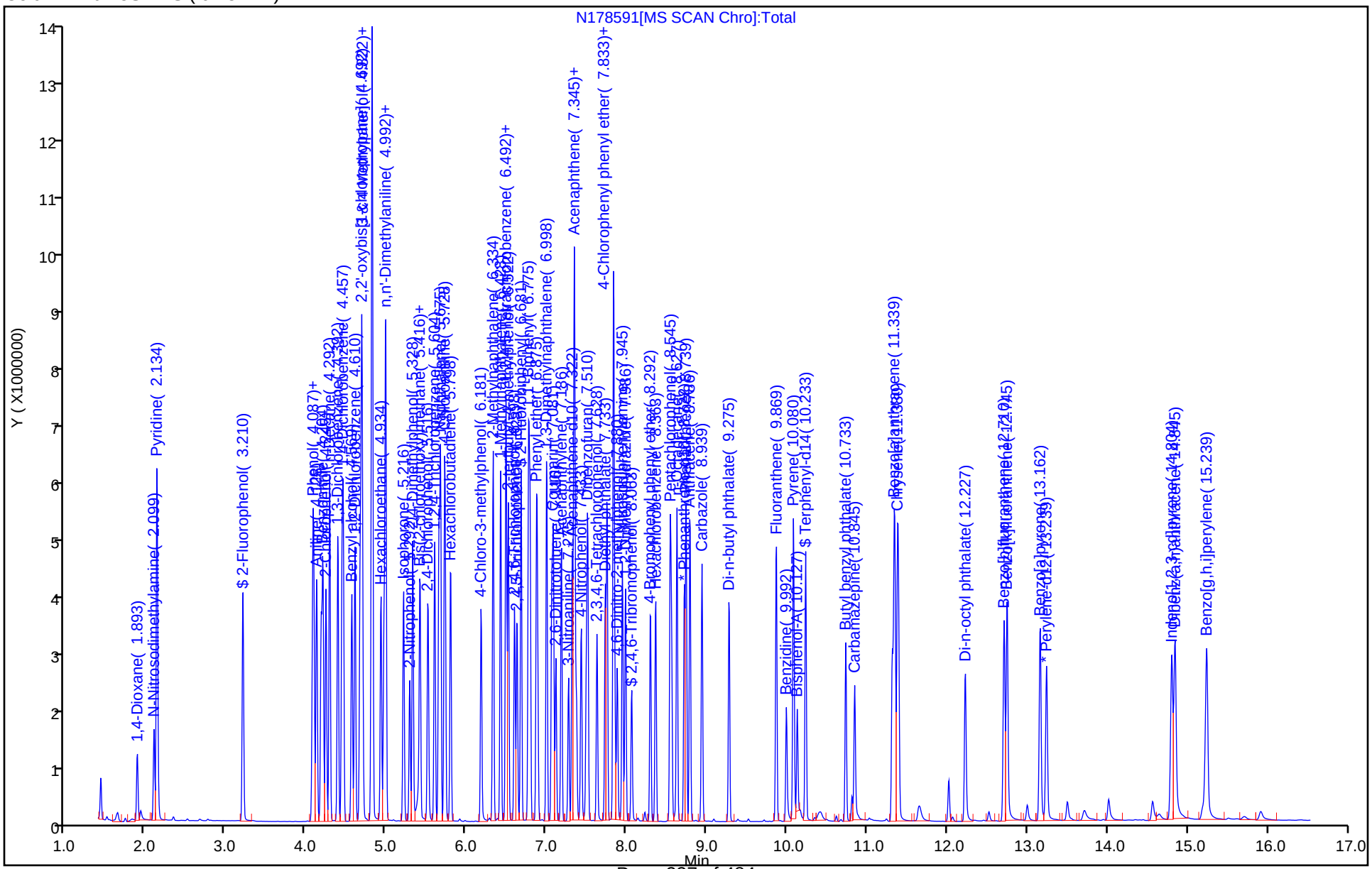
Report Date: 26-Oct-2018 09:22:42 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178591.d

Injection Date:	25-Oct-2018 19:51:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	ICIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178592.d
Lims ID: STD24
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 25-Oct-2018 20:24:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-003
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:22:47 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:12:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.887	1.893	-0.006	98	1223608	24.0	24.1	
2 N-Nitrosodimethylamine	74	2.099	2.099	0.001	88	1930561	24.0	25.1	
3 Pyridine	79	2.134	2.134	0.000	90	6055124	48.0	47.2	
$ 4 2-Fluorophenol	112	3.210	3.210	0.000	95	3556766	24.0	25.7	
$ 6 Phenol-d5	99	4.087	4.081	0.006	96	4023116	24.0	25.1	
7 Phenol	94	4.104	4.092	0.012	99	4201356	24.0	26.0	
8 Aniline	93	4.134	4.128	0.006	100	4925347	24.0	24.7	
9 Bis(2-chloroethyl)ether	93	4.193	4.187	0.006	96	3117425	24.0	23.2	
10 Benzonitrile	103	4.216	4.204	0.012	99	6123889	NC	NC	
11 2-Chlorophenol	128	4.252	4.245	0.007	96	3276765	24.0	24.2	
12 n-Decane	43	4.293	4.292	0.001	88	3044293	24.0	21.8	
13 1,3-Dichlorobenzene	146	4.399	4.392	0.007	94	3504491	24.0	23.8	
* 14 1,4-Dichlorobenzene-d4	152	4.446	4.445	0.001	97	744058	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.463	4.463	0.000	93	3460052	24.0	23.6	
16 Benzyl alcohol	108	4.575	4.569	0.006	93	1977044	24.0	25.6	
17 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	3282346	24.0	23.6	
18 2-Methylphenol	108	4.675	4.675	0.000	90	2682319	24.0	23.4	
19 2,2'-oxybis[1-chloropropan	45	4.704	4.698	0.006	93	3490533	24.0	21.1	a
20 N-Methylaniline	106	4.816	4.816	0.000	90	4183520	24.0	23.2	
23 3 & 4 Methylphenol	108	4.828	4.822	0.006	97	2569479	24.0	21.7	
24 4-Methylphenol	108	4.828	4.822	0.006	81	2569479	24.0	21.7	
21 Acetophenone	105	4.834	4.828	0.006	92	3527723	24.0	21.1	
22 N-Nitrosodi-n-propylamine	70	4.834	4.828	0.006	87	1788614	24.0	22.0	
25 Hexachloroethane	117	4.934	4.934	0.000	93	1315075	24.0	23.5	
$ 27 Nitrobenzene-d5	82	4.975	4.969	0.006	92	3263368	24.0	25.9	
28 Nitrobenzene	123	4.993	4.987	0.006	92	1317536	24.0	23.0	
29 n,n'-Dimethylaniline	120	4.999	4.992	0.007	93	4126981	24.0	22.0	
30 Isophorone	82	5.222	5.216	0.006	99	5035749	24.0	23.8	
32 2-Nitrophenol	139	5.293	5.292	0.001	91	1417473	24.0	26.0	
33 2,4-Dimethylphenol	122	5.334	5.328	0.006	91	2481100	24.0	23.8	
35 Benzoic acid	122	5.457	5.416	0.041	88	1404870	24.0	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.422	5.422	0.000	99	3258091	24.0	23.5	
36 2,4-Dichlorophenol	162	5.522	5.522	0.000	96	2323907	24.0	24.2	
37 1,2,4-Trichlorobenzene	180	5.604	5.604	0.000	94	2643509	24.0	23.0	
* 38 Naphthalene-d8	136	5.657	5.657	0.000	99	2704220	8.00	8.00	
39 Naphthalene	128	5.675	5.675	0.000	99	7645533	24.0	22.5	
40 4-Chloroaniline	127	5.728	5.722	0.006	96	3183939	24.0	23.1	
41 Hexachlorobutadiene	225	5.804	5.804	0.000	96	1537348	24.0	23.4	
43 4-Chloro-3-methylphenol	107	6.187	6.181	0.006	97	2195102	24.0	24.1	
44 2-Methylnaphthalene	142	6.334	6.334	0.000	84	4905880	24.0	22.6	
45 1-Methylnaphthalene	142	6.428	6.428	0.000	92	4587659	24.0	22.6	
46 Hexachlorocyclopentadiene	237	6.493	6.492	0.001	97	1557846	24.0	26.3	
47 1,2,4,5-Tetrachlorobenzene	216	6.498	6.498	0.000	97	2283849	24.0	23.7	
48 2-tertbutyl-4-methylphenol	149	6.522	6.522	0.000	89	3127672	24.0	23.7	
49 2,4,6-Trichlorophenol	196	6.604	6.598	0.006	88	1470487	24.0	24.7	
50 2,4,5-Trichlorophenol	196	6.634	6.628	0.006	96	1634140	24.0	25.1	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	98	5286839	24.0	23.5	
52 1,1'-Biphenyl	154	6.775	6.775	0.000	96	5542826	24.0	22.9	
53 2-Chloronaphthalene	162	6.798	6.792	0.006	97	4310824	24.0	23.1	
54 Phenyl ether	170	6.875	6.875	0.000	89	2901343	24.0	24.3	
55 2-Nitroaniline	65	6.893	6.886	0.007	97	1470809	24.0	25.2	
57 1,3-Dimethylnaphthalene	156	7.004	6.998	0.006	91	3562872	24.0	23.7	
59 Dimethyl phthalate	163	7.069	7.063	0.006	99	4460390	24.0	23.4	
60 Coumarin	146	7.087	7.081	0.006	79	1428859	24.0	23.5	
61 2,6-Dinitrotoluene	165	7.122	7.116	0.006	96	1016590	24.0	24.2	
62 Acenaphthylene	152	7.187	7.186	0.001	98	5942952	24.0	23.7	
63 3-Nitroaniline	138	7.281	7.275	0.006	94	1111399	24.0	25.5	
* 64 Acenaphthene-d10	164	7.322	7.322	0.000	95	1083573	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.345	7.339	0.006	97	4014707	24.0	24.7	
66 Acenaphthene	154	7.351	7.351	0.000	94	3900010	24.0	21.8	
67 2,4-Dinitrophenol	184	7.381	7.375	0.006	97	1038027	48.0	47.5	a
68 4-Nitrophenol	65	7.440	7.433	0.007	90	1625566	48.0	53.2	
69 2,4-Dinitrotoluene	165	7.498	7.498	0.000	94	1290941	24.0	24.4	
70 Dibenzofuran	168	7.516	7.510	0.006	95	5451414	24.0	22.9	
72 2,3,4,6-Tetrachlorophenol	232	7.634	7.628	0.006	94	1173537	24.0	25.2	
73 Diethyl phthalate	149	7.740	7.733	0.007	98	4238202	24.0	24.0	
75 Fluorene	166	7.840	7.833	0.007	94	4070016	24.0	22.9	
74 4-Chlorophenyl phenyl ethe	204	7.840	7.833	0.007	79	2112324	24.0	23.3	
76 4-Nitroaniline	138	7.863	7.851	0.012	89	1071264	24.0	26.0	
77 4,6-Dinitro-2-methylphenol	198	7.892	7.880	0.012	86	1240868	48.0	47.5	
78 N-Nitrosodiphenylamine	169	7.951	7.945	0.006	98	3104964	24.0	23.8	
79 1,2-Diphenylhydrazine	77	7.987	7.986	0.001	95	4351799	24.0	23.9	
$ 80 2,4,6-Tribromophenol	330	8.069	8.063	0.006	92	975603	24.0	29.0	
81 4-Bromophenyl phenyl ether	248	8.298	8.298	0.000	92	1357367	24.0	24.7	
82 Hexachlorobenzene	284	8.363	8.363	0.000	95	1639453	24.0	25.1	
84 Pentachlorophenol	266	8.545	8.545	0.000	94	1839641	48.0	55.5	
85 Pentachloronitrobenzene	237	8.563	8.557	0.006	90	622104	24.0	26.4	
86 n-Octadecane	57	8.628	8.627	0.001	91	2718883	24.0	24.1	
* 87 Phenanthrene-d10	188	8.722	8.722	0.000	98	1737361	8.00	8.00	
88 Phenanthrene	178	8.745	8.739	0.006	97	5812458	24.0	23.6	
89 Anthracene	178	8.792	8.786	0.006	99	6022421	24.0	23.9	
90 Carbazole	167	8.939	8.939	0.000	96	5071147	24.0	24.4	
91 Di-n-butyl phthalate	149	9.275	9.275	0.001	99	5876485	24.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.869	9.869	0.000	98	5864317	24.0	25.1	
93 Benzidine	184	9.992	9.992	0.000	99	2744735	24.0	24.9	
94 Pyrene	202	10.081	10.080	0.001	98	5929337	24.0	22.7	
95 Bisphenol-A	213	10.128	10.127	0.001	98	2338978	24.0	24.0	
$ 96 Terphenyl-d14	244	10.233	10.233	0.000	98	5086535	24.0	24.2	
97 Butyl benzyl phthalate	149	10.739	10.733	0.006	98	2372700	24.0	26.8	
99 Carbamazepine	193	10.851	10.845	0.006	93	2551527	24.0	23.9	
100 3,3'-Dichlorobenzidine	252	11.316	11.316	0.000	99	2426034	24.0	22.1	
101 Benzo[a]anthracene	228	11.339	11.339	0.000	98	5477908	24.0	25.1	
* 102 Chrysene-d12	240	11.351	11.351	0.000	99	1468635	8.00	8.00	
104 Chrysene	228	11.386	11.380	0.006	99	5198231	24.0	24.6	
103 Bis(2-ethylhexyl) phthalat	149	11.392	11.392	0.000	88	3060851	24.0	21.2	
105 Di-n-octyl phthalate	149	12.227	12.227	0.000	97	5507278	24.0	26.7	
106 Benzo[b]fluoranthene	252	12.716	12.710	0.006	98	6654262	24.0	26.9	
107 Benzo[k]fluoranthene	252	12.757	12.745	0.012	98	6542682	24.0	23.4	
108 Benzo[a]pyrene	252	13.169	13.162	0.007	99	6456805	24.0	26.7	
* 109 Perylene-d12	264	13.245	13.239	0.006	100	1770028	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.821	14.804	0.017	98	7457967	24.0	31.1	
111 Dibenz(a,h)anthracene	278	14.863	14.845	0.018	99	7356846	24.0	28.7	
112 Benzo[g,h,i]perylene	276	15.263	15.239	0.024	97	7747321	24.0	27.2	
S 119 Total Cresols	1				0			45.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SM_BNAL8_00018 Amount Added: 1.00 Units: mL

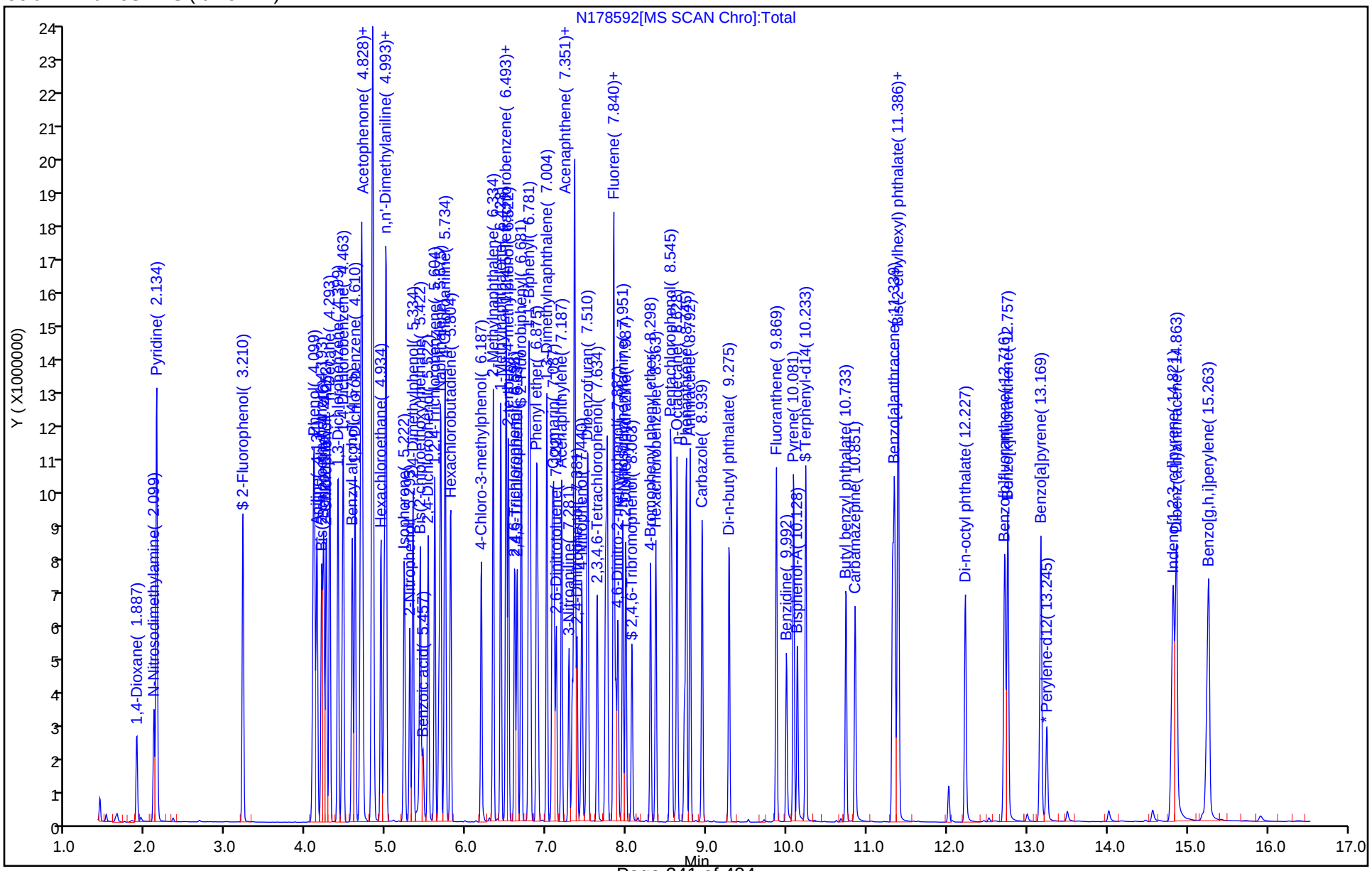
Report Date: 26-Oct-2018 09:22:49 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178592.d

Injection Date:	25-Oct-2018 20:24:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	STD24			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178593.d
Lims ID: STD16
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-Oct-2018 20:45:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-004
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:22:56 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:15:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.899	1.893	0.006	98	984818	16.0	16.7	
2 N-Nitrosodimethylamine	74	2.110	2.099	0.012	89	1520610	16.0	17.0	
3 Pyridine	79	2.146	2.134	0.012	94	4886698	32.0	32.7	
$ 4 2-Fluorophenol	112	3.210	3.210	0.000	96	2738011	16.0	17.0	
$ 6 Phenol-d5	99	4.087	4.081	0.006	96	3110455	16.0	16.7	
7 Phenol	94	4.098	4.092	0.006	99	3103311	16.0	16.5	
8 Aniline	93	4.134	4.128	0.006	100	3946413	16.0	17.0	
9 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	96	2496589	16.0	15.9	
10 Benzonitrile	103	4.216	4.204	0.012	99	4771232	NC	NC	
11 2-Chlorophenol	128	4.251	4.245	0.006	96	2634971	16.0	16.7	
12 n-Decane	43	4.293	4.292	0.001	89	2557754	16.0	15.7	
13 1,3-Dichlorobenzene	146	4.398	4.392	0.006	95	2836641	16.0	16.5	
* 14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	97	867288	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.463	4.463	0.000	93	2790510	16.0	16.3	
16 Benzyl alcohol	108	4.575	4.569	0.006	93	1480639	16.0	16.5	
17 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	2668442	16.0	16.5	
18 2-Methylphenol	108	4.675	4.675	0.000	90	2181836	16.0	16.3	
19 2,2'-oxybis[1-chloropropan	45	4.704	4.698	0.006	93	2961873	16.0	15.3	a
20 N-Methylaniline	106	4.816	4.816	0.000	91	3263162	16.0	15.5	
24 4-Methylphenol	108	4.828	4.822	0.006	82	2126312	16.0	15.4	
23 3 & 4 Methylphenol	108	4.828	4.822	0.006	97	2126312	16.0	15.4	
22 N-Nitrosodi-n-propylamine	70	4.834	4.828	0.006	88	1442758	16.0	15.3	
21 Acetophenone	105	4.828	4.828	0.000	91	2924213	16.0	15.0	
25 Hexachloroethane	117	4.934	4.934	0.000	94	1077100	16.0	16.5	
$ 27 Nitrobenzene-d5	82	4.975	4.969	0.006	90	2570160	16.0	17.5	
28 Nitrobenzene	123	4.992	4.987	0.005	93	1094441	16.0	16.4	
29 n,n'-Dimethylaniline	120	4.992	4.992	0.000	93	3307661	16.0	15.1	
30 Isophorone	82	5.222	5.216	0.006	99	3997694	16.0	16.2	
32 2-Nitrophenol	139	5.292	5.292	0.000	91	1160798	16.0	18.3	
33 2,4-Dimethylphenol	122	5.334	5.328	0.006	90	1875234	16.0	15.4	
35 Benzoic acid	122	5.440	5.416	0.024	88	912201	16.0	15.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.422	5.422	0.000	99	2612843	16.0	16.2	
36 2,4-Dichlorophenol	162	5.522	5.522	0.000	96	1881019	16.0	16.9	
37 1,2,4-Trichlorobenzene	180	5.604	5.604	0.000	94	2145794	16.0	16.0	
* 38 Naphthalene-d8	136	5.657	5.657	0.000	99	3147185	8.00	8.00	
39 Naphthalene	128	5.675	5.675	0.000	99	6376454	16.0	16.1	
40 4-Chloroaniline	127	5.728	5.722	0.006	96	2566341	16.0	16.0	
41 Hexachlorobutadiene	225	5.804	5.804	0.000	96	1254056	16.0	16.4	
43 4-Chloro-3-methylphenol	107	6.181	6.181	0.000	97	1757863	16.0	16.6	
44 2-Methylnaphthalene	142	6.334	6.334	0.000	84	3973910	16.0	15.7	
45 1-Methylnaphthalene	142	6.428	6.428	0.000	92	3712842	16.0	15.7	
46 Hexachlorocyclopentadiene	237	6.492	6.492	0.000	97	1246387	16.0	18.4	
47 1,2,4,5-Tetrachlorobenzene	216	6.498	6.498	0.000	97	1812666	16.0	16.5	
48 2-tertbutyl-4-methylphenol	149	6.522	6.522	0.000	89	2406684	16.0	15.6	
49 2,4,6-Trichlorophenol	196	6.598	6.598	0.000	87	1174681	16.0	17.3	
50 2,4,5-Trichlorophenol	196	6.634	6.628	0.006	96	1252744	16.0	16.9	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	98	4150672	16.0	16.2	
52 1,1'-Biphenyl	154	6.775	6.775	0.000	96	4512786	16.0	16.3	
53 2-Chloronaphthalene	162	6.792	6.792	0.000	97	3478361	16.0	16.4	
54 Phenyl ether	170	6.875	6.875	0.000	87	2205921	16.0	16.2	
55 2-Nitroaniline	65	6.886	6.886	0.000	97	1167038	16.0	17.5	
57 1,3-Dimethylnaphthalene	156	7.004	6.998	0.006	92	2784455	16.0	16.2	
59 Dimethyl phthalate	163	7.069	7.063	0.006	99	3542210	16.0	16.3	
60 Coumarin	146	7.086	7.081	0.005	78	1087053	16.0	15.4	
61 2,6-Dinitrotoluene	165	7.122	7.116	0.006	96	805186	16.0	16.8	
62 Acenaphthylene	152	7.186	7.186	0.000	98	4701157	16.0	16.5	
63 3-Nitroaniline	138	7.275	7.275	0.000	94	869428	16.0	17.5	
* 64 Acenaphthene-d10	164	7.322	7.322	0.000	96	1234577	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.345	7.339	0.006	97	3040849	16.0	16.4	
66 Acenaphthene	154	7.351	7.351	0.000	94	3414521	16.0	16.8	
67 2,4-Dinitrophenol	184	7.375	7.375	0.000	97	789996	32.0	34.0	
68 4-Nitrophenol	65	7.434	7.433	0.001	90	1243834	32.0	35.7	
69 2,4-Dinitrotoluene	165	7.498	7.498	0.000	94	1026082	16.0	17.1	
70 Dibenzofuran	168	7.516	7.510	0.006	95	4354618	16.0	16.0	
72 2,3,4,6-Tetrachlorophenol	232	7.628	7.628	0.000	93	911290	16.0	17.2	
73 Diethyl phthalate	149	7.733	7.733	0.000	98	3314531	16.0	16.5	
74 4-Chlorophenyl phenyl ethe	204	7.833	7.833	0.000	89	1648425	16.0	16.0	
75 Fluorene	166	7.839	7.833	0.006	95	3228243	16.0	15.9	
76 4-Nitroaniline	138	7.857	7.851	0.006	92	831459	16.0	17.7	
77 4,6-Dinitro-2-methylphenol	198	7.886	7.880	0.006	86	958080	32.0	33.9	
78 N-Nitrosodiphenylamine	169	7.951	7.945	0.006	98	2443677	16.0	16.6	
79 1,2-Diphenylhydrazine	77	7.986	7.986	0.000	95	3409973	16.0	16.6	
$ 80 2,4,6-Tribromophenol	330	8.063	8.063	0.000	92	707370	16.0	18.4	
81 4-Bromophenyl phenyl ether	248	8.298	8.298	0.000	95	1047457	16.0	16.9	
82 Hexachlorobenzene	284	8.363	8.363	0.000	95	1258530	16.0	17.1	
84 Pentachlorophenol	266	8.545	8.545	0.000	93	1361181	32.0	36.4	
85 Pentachloronitrobenzene	237	8.563	8.557	0.006	89	472632	16.0	17.8	
86 n-Octadecane	57	8.628	8.627	0.001	91	2151344	16.0	16.9	
* 87 Phenanthrene-d10	188	8.716	8.722	-0.006	98	1958302	8.00	8.00	
88 Phenanthrene	178	8.739	8.739	0.000	97	4574206	16.0	16.5	
89 Anthracene	178	8.792	8.786	0.006	99	4718434	16.0	16.6	
90 Carbazole	167	8.939	8.939	0.000	96	3934845	16.0	16.8	
91 Di-n-butyl phthalate	149	9.275	9.275	0.001	99	4607878	16.0	17.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.869	9.869	0.000	98	4548704	16.0	17.3	
93 Benzidine	184	9.992	9.992	0.000	99	2130515	16.0	17.3	
94 Pyrene	202	10.080	10.080	0.000	98	4608834	16.0	16.2	
95 Bisphenol-A	213	10.127	10.127	0.000	98	1493543	16.0	15.8	
$ 96 Terphenyl-d14	244	10.233	10.233	0.000	98	3713450	16.0	16.3	
97 Butyl benzyl phthalate	149	10.733	10.733	0.000	98	1792007	16.0	18.7	
99 Carbamazepine	193	10.845	10.845	0.000	93	1752712	16.0	16.2	
100 3,3'-Dichlorobenzidine	252	11.316	11.316	0.000	99	1724865	16.0	16.0	
101 Benzo[a]anthracene	228	11.339	11.339	0.000	98	4013398	16.0	16.9	
* 102 Chrysene-d12	240	11.351	11.351	0.000	99	1595108	8.00	8.00	
104 Chrysene	228	11.380	11.380	0.000	99	3973397	16.0	17.3	
103 Bis(2-ethylhexyl) phthalat	149	11.392	11.392	0.000	88	2337052	16.0	16.0	
105 Di-n-octyl phthalate	149	12.227	12.227	0.000	97	4041763	16.0	18.9	
106 Benzo[b]fluoranthene	252	12.716	12.710	0.006	98	4600476	16.0	18.0	
107 Benzo[k]fluoranthene	252	12.751	12.745	0.006	99	4829397	16.0	16.7	
108 Benzo[a]pyrene	252	13.163	13.162	0.001	99	4567740	16.0	18.3	
* 109 Perylene-d12	264	13.239	13.239	0.000	100	1834466	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.810	14.804	0.006	98	4798813	16.0	19.3	
111 Dibenz(a,h)anthracene	278	14.851	14.845	0.006	96	4946109	16.0	18.6	
112 Benzo[g,h,i]perylene	276	15.251	15.239	0.012	97	5155246	16.0	17.4	
S 119 Total Cresols	1				0			31.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SM_BNAL7_00018 Amount Added: 1.00 Units: mL

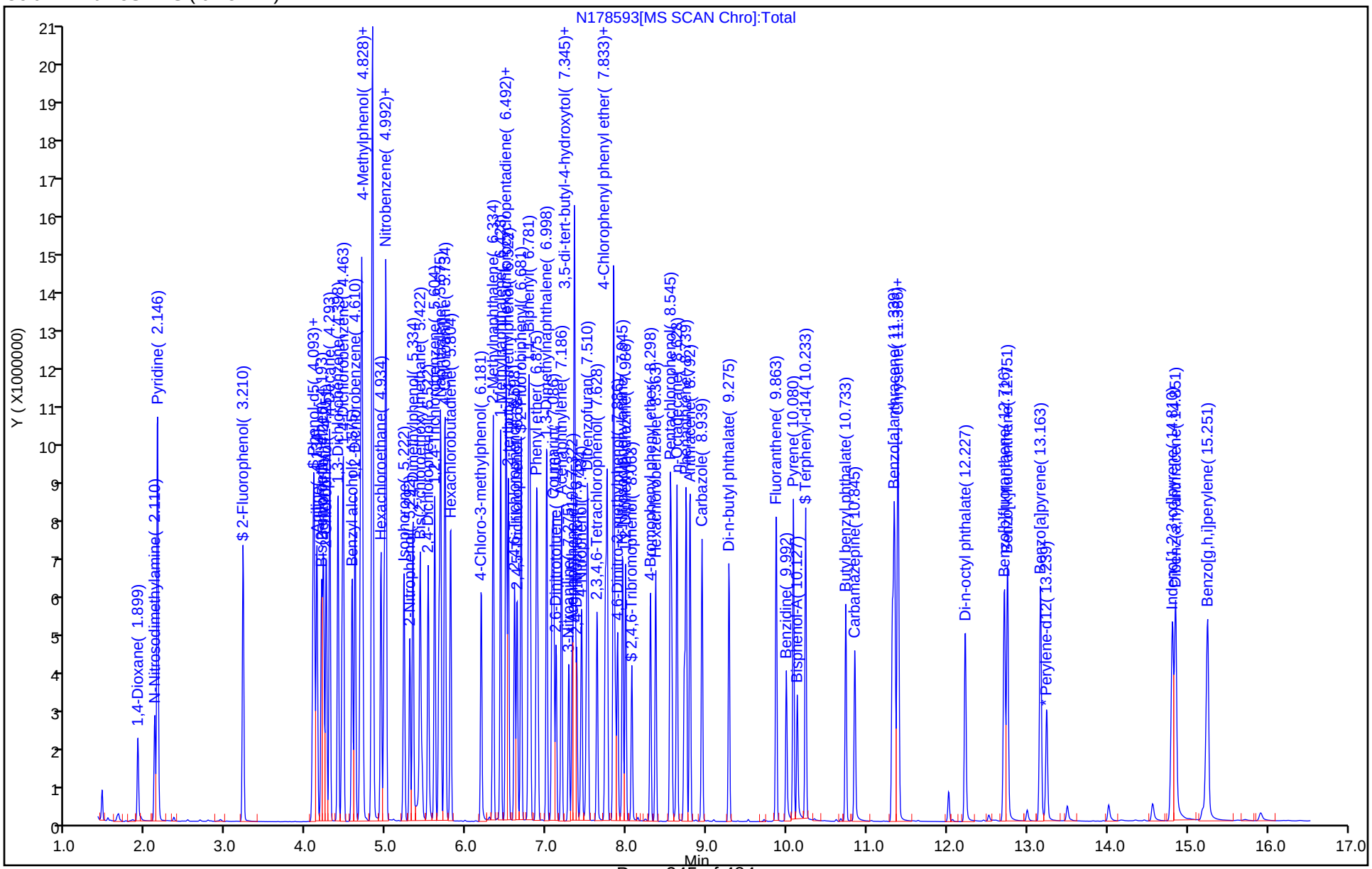
Report Date: 26-Oct-2018 09:22:57 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178593.d

Injection Date:	25-Oct-2018 20:45:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	STD16			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178594.d
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2018 21:06:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-005
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:05 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:16:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.904	1.893	0.011	98	264747	4.00	3.80	
2 N-Nitrosodimethylamine	74	2.110	2.099	0.012	88	398542	4.00	3.78	
3 Pyridine	79	2.146	2.134	0.012	87	1369245	8.00	7.78	
$ 4 2-Fluorophenol	112	3.210	3.210	0.000	94	698998	4.00	3.68	
$ 6 Phenol-d5	99	4.075	4.081	-0.006	96	821965	4.00	3.74	
7 Phenol	94	4.087	4.092	-0.005	98	851900	4.00	3.84	
8 Aniline	93	4.128	4.128	0.000	99	1047819	4.00	3.83	
9 Bis(2-chloroethyl)ether	93	4.181	4.187	-0.006	96	697607	4.00	3.78	
10 Benzonitrile	103	4.204	4.204	0.000	99	1336876	NC	NC	
11 2-Chlorophenol	128	4.246	4.245	0.001	95	713066	4.00	3.84	
12 n-Decane	43	4.293	4.292	0.001	90	766662	4.00	4.01	
13 1,3-Dichlorobenzene	146	4.393	4.392	0.001	94	783799	4.00	3.87	
* 14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	97	1020906	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.463	4.463	0.000	93	781021	4.00	3.88	
16 Benzyl alcohol	108	4.563	4.569	-0.006	94	403440	4.00	3.81	
17 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	737262	4.00	3.87	
18 2-Methylphenol	108	4.669	4.675	-0.006	91	618559	4.00	3.93	
19 2,2'-oxybis[1-chloropropan	45	4.698	4.698	0.000	94	923850	4.00	4.07	
20 N-Methylaniline	106	4.816	4.816	0.000	84	958680	4.00	3.92	
23 3 & 4 Methylphenol	108	4.816	4.822	-0.006	99	649577	4.00	4.00	
24 4-Methylphenol	108	4.816	4.822	-0.006	88	649577	4.00	4.00	
21 Acetophenone	105	4.822	4.828	-0.006	90	924268	4.00	4.03	
22 N-Nitrosodi-n-propylamine	70	4.822	4.828	-0.006	89	435403	4.00	3.91	
25 Hexachloroethane	117	4.934	4.934	0.000	93	295042	4.00	3.84	
$ 27 Nitrobenzene-d5	82	4.969	4.969	0.000	88	679353	4.00	3.79	
28 Nitrobenzene	123	4.987	4.987	0.000	92	325418	4.00	4.13	
29 n,n'-Dimethylaniline	120	4.993	4.992	0.000	93	1014249	4.00	3.97	
30 Isophorone	82	5.210	5.216	-0.006	99	1138132	4.00	3.78	
32 2-Nitrophenol	139	5.292	5.292	0.000	91	300203	4.00	3.86	
33 2,4-Dimethylphenol	122	5.328	5.328	0.000	90	571148	4.00	3.84	
35 Benzoic acid	122	5.392	5.416	-0.024	89	208514	4.00	4.27	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.416	5.422	-0.006	99	752390	4.00	3.81	
36 2,4-Dichlorophenol	162	5.516	5.522	-0.006	96	520852	4.00	3.81	
37 1,2,4-Trichlorobenzene	180	5.604	5.604	0.000	94	611992	4.00	3.74	
* 38 Naphthalene-d8	136	5.657	5.657	0.000	100	3852561	8.00	8.00	
39 Naphthalene	128	5.675	5.675	0.000	99	1884995	4.00	3.89	
40 4-Chloroaniline	127	5.722	5.722	0.000	97	753001	4.00	3.83	
41 Hexachlorobutadiene	225	5.798	5.804	-0.006	95	348412	4.00	3.73	
43 4-Chloro-3-methylphenol	107	6.181	6.181	0.000	97	490672	4.00	3.78	
44 2-Methylnaphthalene	142	6.334	6.334	0.000	84	1179285	4.00	3.81	
45 1-Methylnaphthalene	142	6.422	6.428	-0.006	92	1103143	4.00	3.81	
46 Hexachlorocyclopentadiene	237	6.492	6.492	0.000	97	328543	4.00	3.86	
47 1,2,4,5-Tetrachlorobenzene	216	6.492	6.498	-0.006	97	535192	4.00	3.87	
48 2-tertbutyl-4-methylphenol	149	6.522	6.522	0.000	89	715228	4.00	3.80	
49 2,4,6-Trichlorophenol	196	6.598	6.598	0.000	88	355773	4.00	4.17	
50 2,4,5-Trichlorophenol	196	6.628	6.628	0.000	96	343287	4.00	3.69	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	98	1205153	4.00	3.74	
52 1,1'-Biphenyl	154	6.775	6.775	0.000	96	1352647	4.00	3.89	
53 2-Chloronaphthalene	162	6.792	6.792	0.000	97	1042812	4.00	3.90	
54 Phenyl ether	170	6.875	6.875	0.000	87	658616	4.00	3.85	
55 2-Nitroaniline	65	6.881	6.886	-0.005	97	328407	4.00	3.92	
57 1,3-Dimethylnaphthalene	156	6.998	6.998	0.000	92	839473	4.00	3.89	
59 Dimethyl phthalate	163	7.063	7.063	0.000	98	1060379	4.00	3.88	
60 Coumarin	146	7.081	7.081	0.000	77	328970	4.00	3.80	
61 2,6-Dinitrotoluene	165	7.110	7.116	-0.006	96	228801	4.00	3.87	
62 Acenaphthylene	152	7.181	7.186	-0.005	98	1407691	4.00	3.92	
63 3-Nitroaniline	138	7.269	7.275	-0.006	94	243196	4.00	3.89	
* 64 Acenaphthene-d10	164	7.316	7.322	-0.006	98	1552476	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.339	7.339	0.000	98	900750	4.00	3.87	
66 Acenaphthene	154	7.345	7.351	-0.006	95	1007015	4.00	3.93	
67 2,4-Dinitrophenol	184	7.369	7.375	-0.006	95	162779	8.00	7.69	
68 4-Nitrophenol	65	7.428	7.433	-0.005	90	335266	8.00	7.66	
69 2,4-Dinitrotoluene	165	7.492	7.498	-0.006	94	286562	4.00	3.86	
70 Dibenzofuran	168	7.510	7.510	0.000	98	1320740	4.00	3.87	
72 2,3,4,6-Tetrachlorophenol	232	7.628	7.628	0.000	93	253186	4.00	3.79	
73 Diethyl phthalate	149	7.728	7.733	-0.005	98	971887	4.00	3.84	
75 Fluorene	166	7.834	7.833	0.001	94	992461	4.00	3.89	
74 4-Chlorophenyl phenyl ethe	204	7.834	7.833	0.001	78	497731	4.00	3.83	
76 4-Nitroaniline	138	7.845	7.851	-0.006	88	226370	4.00	3.84	
77 4,6-Dinitro-2-methylphenol	198	7.875	7.880	-0.005	86	226435	8.00	7.77	
78 N-Nitrosodiphenylamine	169	7.945	7.945	0.000	98	721964	4.00	3.86	
79 1,2-Diphenylhydrazine	77	7.981	7.986	-0.005	97	1000909	4.00	3.83	
$ 80 2,4,6-Tribromophenol	330	8.063	8.063	0.000	93	184811	4.00	3.83	
81 4-Bromophenyl phenyl ether	248	8.292	8.298	-0.006	91	299743	4.00	3.80	
82 Hexachlorobenzene	284	8.357	8.363	-0.006	96	352167	4.00	3.75	
84 Pentachlorophenol	266	8.539	8.545	-0.006	92	356266	8.00	7.48	
85 Pentachloronitrobenzene	237	8.557	8.557	0.000	89	130377	4.00	3.86	
86 n-Octadecane	57	8.628	8.627	0.001	91	632229	4.00	3.90	
* 87 Phenanthrene-d10	188	8.716	8.722	-0.006	98	2494823	8.00	8.00	
88 Phenanthrene	178	8.739	8.739	0.000	97	1356671	4.00	3.83	
89 Anthracene	178	8.786	8.786	0.000	99	1377284	4.00	3.81	
90 Carbazole	167	8.939	8.939	0.000	96	1124220	4.00	3.76	
91 Di-n-butyl phthalate	149	9.275	9.275	0.001	99	1262604	4.00	3.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.863	9.869	-0.006	98	1278104	4.00	3.81	
93 Benzidine	184	9.992	9.992	0.000	99	512345	4.00	3.78	
94 Pyrene	202	10.080	10.080	0.000	98	1265461	4.00	3.81	
95 Bisphenol-A	213	10.127	10.127	0.000	98	286394	4.00	3.59	
$ 96 Terphenyl-d14	244	10.233	10.233	0.000	98	979760	4.00	3.67	
97 Butyl benzyl phthalate	149	10.733	10.733	0.000	98	424128	4.00	3.77	
99 Carbamazepine	193	10.839	10.845	-0.006	93	377631	4.00	3.78	
100 3,3'-Dichlorobenzidine	252	11.310	11.316	-0.006	99	403360	4.00	4.04	
101 Benzo[a]anthracene	228	11.333	11.339	-0.006	98	1042495	4.00	3.75	
* 102 Chrysene-d12	240	11.345	11.351	-0.006	99	1867476	8.00	8.00	
104 Chrysene	228	11.374	11.380	-0.006	99	1000204	4.00	3.72	
103 Bis(2-ethylhexyl) phthalat	149	11.392	11.392	0.000	88	560577	4.00	3.94	
105 Di-n-octyl phthalate	149	12.221	12.227	-0.006	97	867000	4.00	3.83	
106 Benzo[b]fluoranthene	252	12.704	12.710	-0.006	98	1019174	4.00	3.77	
107 Benzo[k]fluoranthene	252	12.739	12.745	-0.006	99	1223299	4.00	4.00	
108 Benzo[a]pyrene	252	13.157	13.162	-0.005	98	1013105	4.00	3.83	
* 109 Perylene-d12	264	13.239	13.239	0.000	100	1939241	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.792	14.804	-0.012	98	1025917	4.00	3.90	
111 Dibenz(a,h)anthracene	278	14.833	14.845	-0.012	98	1057989	4.00	3.77	
112 Benzo[g,h,i]perylene	276	15.227	15.239	-0.012	98	1130165	4.00	3.62	
S 119 Total Cresols	1				0			7.92	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_BNAL5_00026 Amount Added: 1.00 Units: mL

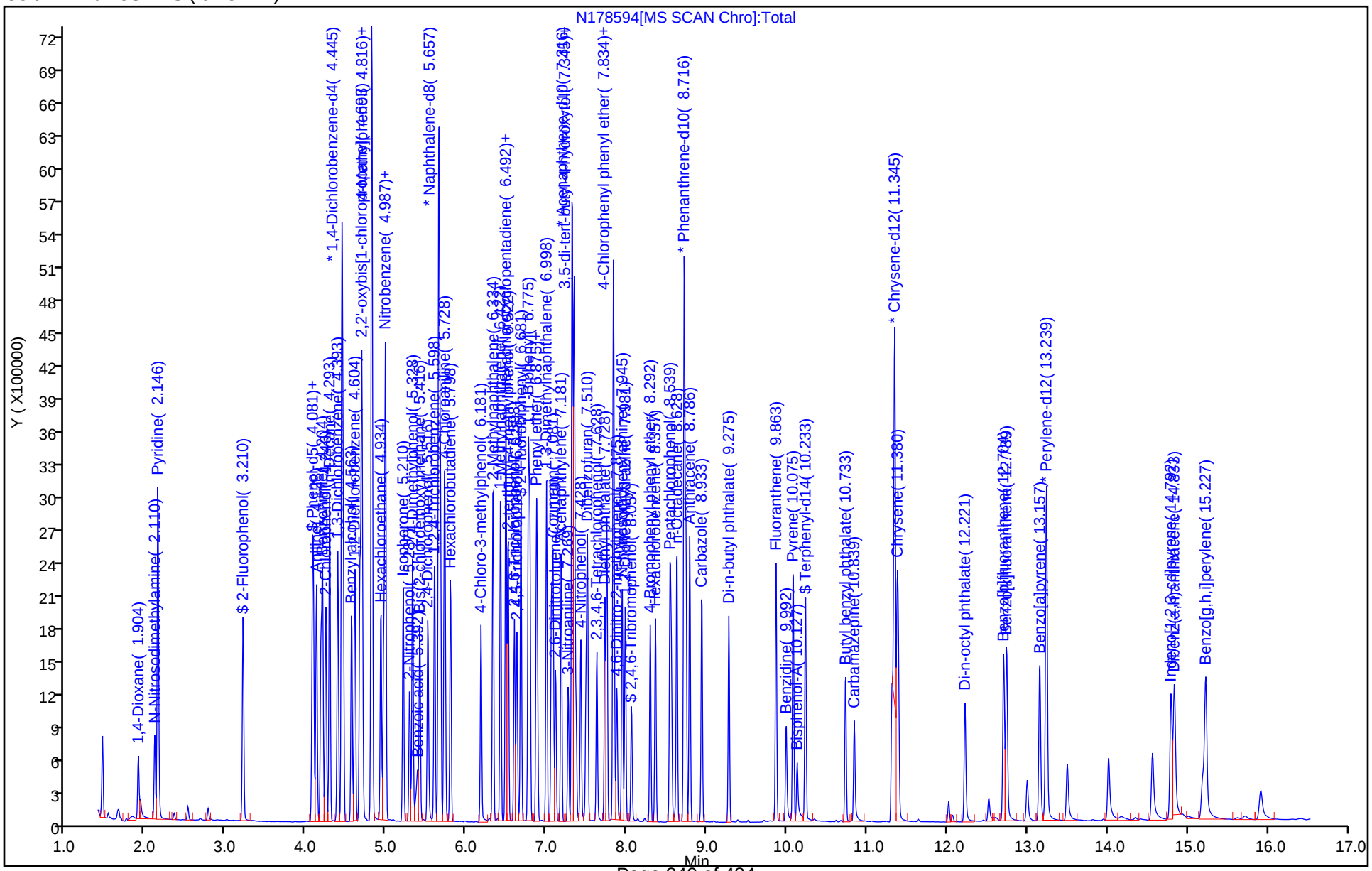
Report Date: 26-Oct-2018 09:23:07 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178594.d

Injection Date:	25-Oct-2018 21:06:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	STD4			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178595.d
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 25-Oct-2018 21:27:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-006
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:14 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:16:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.916	1.893	0.023	98	152304	2.00	1.98	
	2 N-Nitrosodimethylamine	74	2.116	2.099	0.018	89	227017	2.00	1.95	
	3 Pyridine	79	2.157	2.134	0.023	87	790826	4.00	4.08	
$	4 2-Fluorophenol	112	3.216	3.210	0.006	95	398719	2.00	1.91	
$	6 Phenol-d5	99	4.075	4.081	-0.006	95	463432	2.00	1.91	
	7 Phenol	94	4.087	4.092	-0.005	99	477303	2.00	1.95	
	8 Aniline	93	4.128	4.128	0.000	99	594580	2.00	1.97	
	9 Bis(2-chloroethyl)ether	93	4.181	4.187	-0.006	96	398276	2.00	1.96	
	10 Benzonitrile	103	4.204	4.204	0.000	98	725459	NC	NC	
	11 2-Chlorophenol	128	4.245	4.245	0.000	96	409068	2.00	2.00	
	12 n-Decane	43	4.292	4.292	0.000	90	438128	2.00	2.08	
	13 1,3-Dichlorobenzene	146	4.392	4.392	0.000	94	441870	2.00	1.98	
*	14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	97	1125318	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.463	4.463	0.000	94	442810	2.00	2.00	
	16 Benzyl alcohol	108	4.563	4.569	-0.006	94	236672	2.00	2.03	
	17 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	419424	2.00	2.00	
	18 2-Methylphenol	108	4.669	4.675	-0.006	91	352579	2.00	2.03	
	19 2,2'-oxybis[1-chloropropan	45	4.698	4.698	0.000	95	527501	2.00	2.11	
	20 N-Methylaniline	106	4.810	4.816	-0.006	76	526706	2.00	1.98	
	24 4-Methylphenol	108	4.816	4.822	-0.006	78	384748	2.00	2.15	
	23 3 & 4 Methylphenol	108	4.816	4.822	-0.006	97	384748	2.00	2.15	
	22 N-Nitrosodi-n-propylamine	70	4.822	4.828	-0.006	88	252182	2.00	2.05	
	21 Acetophenone	105	4.822	4.828	-0.006	88	541425	2.00	2.14	
	25 Hexachloroethane	117	4.928	4.934	-0.006	94	164285	2.00	1.94	
$	27 Nitrobenzene-d5	82	4.963	4.969	-0.006	89	384623	2.00	1.95	
	28 Nitrobenzene	123	4.987	4.987	0.000	95	185290	2.00	2.14	
	29 n,n'-Dimethylaniline	120	4.987	4.992	-0.005	97	551409	2.00	1.98	
	30 Isophorone	82	5.210	5.216	-0.006	99	659321	2.00	1.99	
	32 2-Nitrophenol	139	5.292	5.292	0.000	91	160196	2.00	1.87	
	33 2,4-Dimethylphenol	122	5.328	5.328	0.000	91	328015	2.00	2.01	
	35 Benzoic acid	122	5.375	5.416	-0.041	88	76182	2.00	1.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.416	5.422	-0.006	99	435362	2.00	2.00	
36 2,4-Dichlorophenol	162	5.516	5.522	-0.006	96	287586	2.00	1.92	
37 1,2,4-Trichlorobenzene	180	5.598	5.604	-0.006	94	351050	2.00	1.95	
* 38 Naphthalene-d8	136	5.657	5.657	0.000	100	4235372	8.00	8.00	
39 Naphthalene	128	5.675	5.675	0.000	99	1078820	2.00	2.02	
40 4-Chloroaniline	127	5.722	5.722	0.000	96	438384	2.00	2.03	
41 Hexachlorobutadiene	225	5.798	5.804	-0.006	96	198182	2.00	1.93	
43 4-Chloro-3-methylphenol	107	6.181	6.181	0.000	97	282969	2.00	1.98	
44 2-Methylnaphthalene	142	6.334	6.334	0.000	84	679500	2.00	2.00	
45 1-Methylnaphthalene	142	6.422	6.428	-0.006	92	638487	2.00	2.00	
46 Hexachlorocyclopentadiene	237	6.492	6.492	0.000	96	181608	2.00	1.86	
47 1,2,4,5-Tetrachlorobenzene	216	6.492	6.498	-0.006	97	309340	2.00	1.95	
48 2-tertbutyl-4-methylphenol	149	6.522	6.522	0.000	90	396956	2.00	1.92	
49 2,4,6-Trichlorophenol	196	6.598	6.598	0.000	87	181136	2.00	1.85	
50 2,4,5-Trichlorophenol	196	6.628	6.628	0.000	96	222580	2.00	2.08	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	98	701139	2.00	1.90	
52 1,1'-Biphenyl	154	6.775	6.775	0.000	96	801912	2.00	2.01	
53 2-Chloronaphthalene	162	6.792	6.792	0.000	97	606652	2.00	1.98	
54 Phenyl ether	170	6.875	6.875	0.000	88	370869	2.00	1.89	
55 2-Nitroaniline	65	6.881	6.886	-0.005	97	181697	2.00	1.89	
57 1,3-Dimethylnaphthalene	156	6.998	6.998	0.000	92	468804	2.00	1.89	
59 Dimethyl phthalate	163	7.057	7.063	-0.006	98	620931	2.00	1.98	
60 Coumarin	146	7.081	7.081	-0.001	78	188277	2.00	1.98	
61 2,6-Dinitrotoluene	165	7.110	7.116	-0.006	96	131074	2.00	1.97	
62 Acenaphthylene	152	7.181	7.186	-0.006	98	814374	2.00	1.98	
63 3-Nitroaniline	138	7.269	7.275	-0.006	94	137960	2.00	1.92	
* 64 Acenaphthene-d10	164	7.316	7.322	-0.006	98	1781535	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.339	7.339	0.000	98	499255	2.00	1.87	
66 Acenaphthene	154	7.345	7.351	-0.006	94	588645	2.00	2.00	
67 2,4-Dinitrophenol	184	7.369	7.375	-0.006	95	75342	4.00	4.18	
68 4-Nitrophenol	65	7.428	7.433	-0.005	90	188244	4.00	3.75	
69 2,4-Dinitrotoluene	165	7.492	7.498	-0.006	94	160220	2.00	1.92	
70 Dibenzofuran	168	7.510	7.510	0.000	96	783633	2.00	2.00	
72 2,3,4,6-Tetrachlorophenol	232	7.628	7.628	0.000	93	146559	2.00	1.91	
73 Diethyl phthalate	149	7.728	7.733	-0.005	98	573781	2.00	1.97	
74 4-Chlorophenyl phenyl ethe	204	7.833	7.833	0.000	81	300285	2.00	2.01	
75 Fluorene	166	7.833	7.833	0.000	94	596076	2.00	2.04	
76 4-Nitroaniline	138	7.845	7.851	-0.006	92	127193	2.00	1.88	
77 4,6-Dinitro-2-methylphenol	198	7.875	7.880	-0.005	84	113899	4.00	4.17	
78 N-Nitrosodiphenylamine	169	7.945	7.945	0.000	98	423127	2.00	1.95	
79 1,2-Diphenylhydrazine	77	7.980	7.986	-0.006	95	589331	2.00	1.94	
$ 80 2,4,6-Tribromophenol	330	8.063	8.063	0.000	95	103456	2.00	1.87	
81 4-Bromophenyl phenyl ether	248	8.292	8.298	-0.006	90	174452	2.00	1.90	
82 Hexachlorobenzene	284	8.357	8.363	-0.006	97	205535	2.00	1.88	
84 Pentachlorophenol	266	8.539	8.545	-0.006	92	200436	4.00	3.63	
85 Pentachloronitrobenzene	237	8.557	8.557	0.000	90	69240	2.00	1.76	
86 n-Octadecane	57	8.627	8.627	0.000	91	361646	2.00	1.92	
* 87 Phenanthrene-d10	188	8.716	8.722	-0.006	98	2895203	8.00	8.00	
88 Phenanthrene	178	8.739	8.739	0.000	96	805420	2.00	1.96	
89 Anthracene	178	8.786	8.786	0.000	99	818732	2.00	1.95	
90 Carbazole	167	8.933	8.939	-0.006	96	677204	2.00	1.95	
91 Di-n-butyl phthalate	149	9.274	9.275	0.000	99	716519	2.00	1.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.863	9.869	-0.006	98	741405	2.00	1.91	
93 Benzidine	184	9.992	9.992	0.000	99	261142	2.00	2.01	
94 Pyrene	202	10.074	10.080	-0.006	98	752862	2.00	2.02	
95 Bisphenol-A	213	10.127	10.127	0.000	98	153539	2.00	2.09	
$ 96 Terphenyl-d14	244	10.233	10.233	0.000	99	564711	2.00	1.89	
97 Butyl benzyl phthalate	149	10.733	10.733	0.000	98	228344	2.00	1.81	
99 Carbamazepine	193	10.839	10.845	-0.006	93	178896	2.00	1.96	
100 3,3'-Dichlorobenzidine	252	11.310	11.316	-0.006	99	208281	2.00	1.97	
101 Benzo[a]anthracene	228	11.333	11.339	-0.006	98	598130	2.00	1.92	
* 102 Chrysene-d12	240	11.345	11.351	-0.006	99	2093192	8.00	8.00	
104 Chrysene	228	11.374	11.380	-0.006	99	570921	2.00	1.89	
103 Bis(2-ethylhexyl) phthalat	149	11.392	11.392	0.000	87	311712	2.00	2.02	
105 Di-n-octyl phthalate	149	12.221	12.227	-0.006	97	452791	2.00	1.82	
106 Benzo[b]fluoranthene	252	12.704	12.710	-0.006	98	574610	2.00	1.93	
107 Benzo[k]fluoranthene	252	12.739	12.745	-0.006	99	665005	2.00	1.97	
108 Benzo[a]pyrene	252	13.151	13.162	-0.011	98	556329	2.00	1.91	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	2135839	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.792	14.804	-0.012	98	555404	2.00	1.92	
111 Dibenz(a,h)anthracene	278	14.833	14.845	-0.012	97	580701	2.00	1.88	
112 Benzo[g,h,i]perylene	276	15.221	15.239	-0.018	98	625058	2.00	1.82	
S 119 Total Cresols	1				0			4.18	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_BNAL4_00039 Amount Added: 1.00 Units: mL

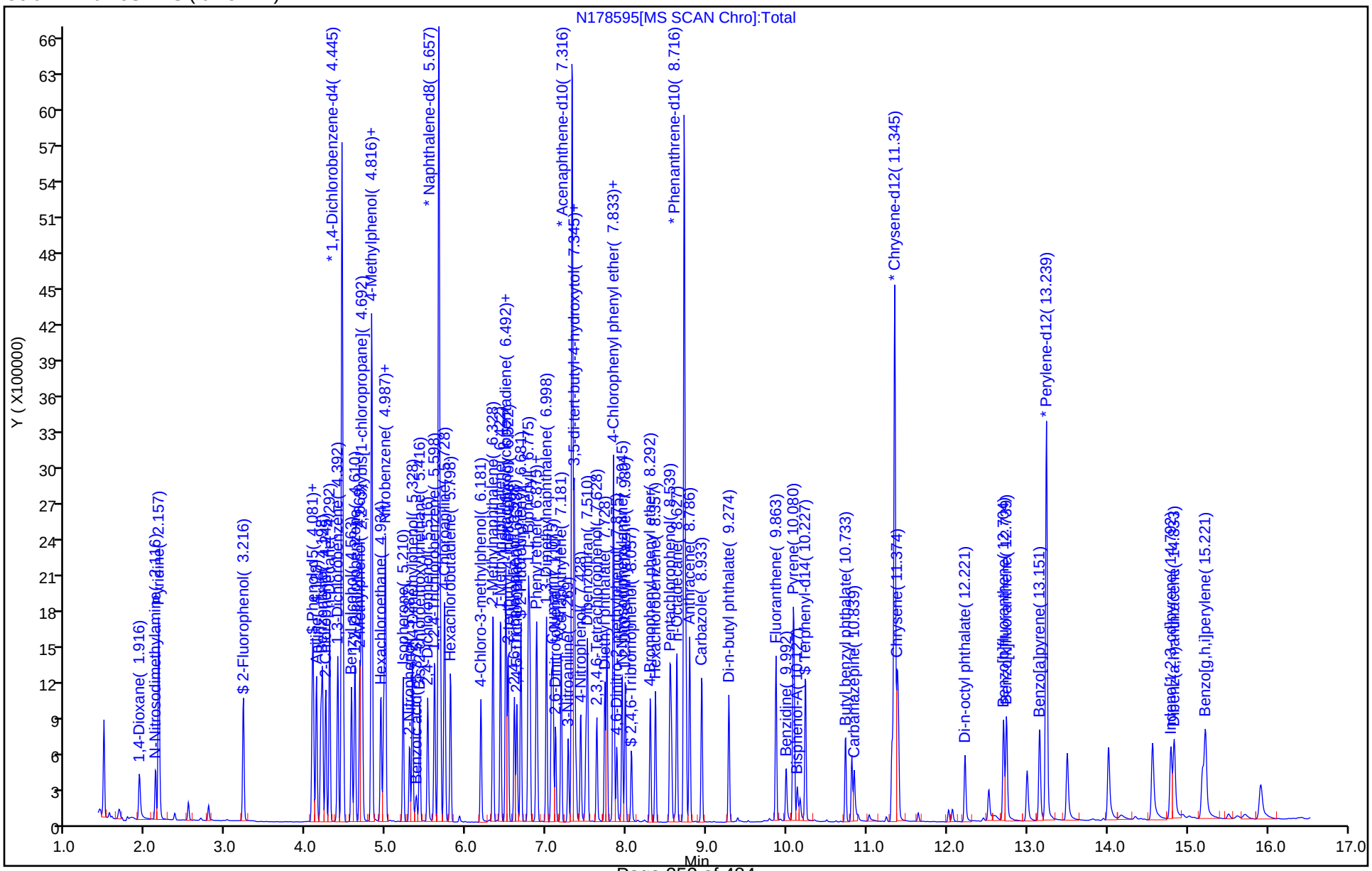
Report Date: 26-Oct-2018 09:23:15 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178595.d

Injection Date:	25-Oct-2018 21:27:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	STD2			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178596.d
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Oct-2018 21:48:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-007
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:23 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:12:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.916	1.893	0.023	98	76278	1.00	1.06	
2 N-Nitrosodimethylamine	74	2.122	2.099	0.024	88	110526	1.00	1.02	
3 Pyridine	79	2.163	2.134	0.029	87	369945	2.00	2.04	
$ 4 2-Fluorophenol	112	3.216	3.210	0.006	95	194052	1.00	0.99	
$ 6 Phenol-d5	99	4.075	4.081	-0.006	96	222322	1.00	0.9803	
7 Phenol	94	4.087	4.092	-0.005	98	229337	1.00	1.00	
8 Aniline	93	4.128	4.128	0.000	99	287453	1.00	1.02	
9 Bis(2-chloroethyl)ether	93	4.181	4.187	-0.006	95	194899	1.00	1.03	
10 Benzonitrile	103	4.199	4.204	-0.005	99	376364	NC	NC	
11 2-Chlorophenol	128	4.246	4.245	0.001	96	198138	1.00	1.03	
12 n-Decane	43	4.293	4.292	0.001	90	219452	1.00	1.11	
13 1,3-Dichlorobenzene	146	4.393	4.392	0.001	94	220925	1.00	1.06	
* 14 1,4-Dichlorobenzene-d4	152	4.446	4.445	0.001	98	1052996	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.463	4.463	0.000	92	221560	1.00	1.07	
16 Benzyl alcohol	108	4.563	4.569	-0.006	93	109345	1.00	1.00	
17 1,2-Dichlorobenzene	146	4.610	4.610	0.000	94	206355	1.00	1.05	
18 2-Methylphenol	108	4.669	4.675	-0.006	89	172078	1.00	1.06	
19 2,2'-oxybis[1-chloropropan	45	4.699	4.698	0.000	94	269225	1.00	1.15	
20 N-Methylaniline	106	4.810	4.816	-0.006	84	273366	1.00	1.13	
23 3 & 4 Methylphenol	108	4.816	4.822	-0.006	98	189402	1.00	1.13	
24 4-Methylphenol	108	4.816	4.822	-0.006	85	189402	1.00	1.13	
21 Acetophenone	105	4.822	4.828	-0.006	89	275420	1.00	1.16	
22 N-Nitrosodi-n-propylamine	70	4.822	4.828	-0.006	91	126777	1.00	1.10	
25 Hexachloroethane	117	4.934	4.934	0.000	92	80405	1.00	1.01	
$ 27 Nitrobenzene-d5	82	4.963	4.969	-0.006	88	179029	1.00	0.9737	
28 Nitrobenzene	123	4.987	4.987	0.000	92	89106	1.00	1.10	
29 n,n'-Dimethylaniline	120	4.987	4.992	-0.005	92	289217	1.00	1.13	
30 Isophorone	82	5.210	5.216	-0.006	99	328990	1.00	1.07	
32 2-Nitrophenol	139	5.293	5.292	0.001	91	71492	1.00	0.8968	
33 2,4-Dimethylphenol	122	5.328	5.328	0.000	90	164069	1.00	1.08	
35 Benzoic acid	122	5.363	5.416	-0.053	83	31434	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.416	5.422	-0.006	99	215797	1.00	1.07	
36 2,4-Dichlorophenol	162	5.516	5.522	-0.006	96	142086	1.00	1.02	
37 1,2,4-Trichlorobenzene	180	5.598	5.604	-0.006	94	174272	1.00	1.04	
* 38 Naphthalene-d8	136	5.651	5.657	-0.006	100	3947880	8.00	8.00	
39 Naphthalene	128	5.675	5.675	0.000	99	535847	1.00	1.08	
40 4-Chloroaniline	127	5.722	5.722	0.000	96	215954	1.00	1.07	
41 Hexachlorobutadiene	225	5.798	5.804	-0.006	96	99333	1.00	1.04	
43 4-Chloro-3-methylphenol	107	6.181	6.181	0.000	97	133243	1.00	1.00	
44 2-Methylnaphthalene	142	6.328	6.334	-0.006	85	337394	1.00	1.06	
45 1-Methylnaphthalene	142	6.422	6.428	-0.006	92	314508	1.00	1.06	
46 Hexachlorocyclopentadiene	237	6.493	6.492	0.000	96	84871	1.00	0.9350	
47 1,2,4,5-Tetrachlorobenzene	216	6.493	6.498	-0.006	97	157428	1.00	1.07	
48 2-tertbutyl-4-methylphenol	149	6.522	6.522	0.000	90	203842	1.00	1.06	
49 2,4,6-Trichlorophenol	196	6.598	6.598	0.000	87	97932	1.00	1.07	
50 2,4,5-Trichlorophenol	196	6.628	6.628	0.000	96	94129	1.00	0.9465	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	97	340138	1.00	0.9882	
52 1,1'-Biphenyl	154	6.775	6.775	0.000	95	392714	1.00	1.06	
53 2-Chloronaphthalene	162	6.792	6.792	0.000	97	305234	1.00	1.07	
54 Phenyl ether	170	6.875	6.875	0.000	88	191333	1.00	1.05	
55 2-Nitroaniline	65	6.881	6.886	-0.005	97	84878	1.00	0.9495	
57 1,3-Dimethylnaphthalene	156	6.998	6.998	0.000	92	245619	1.00	1.07	
59 Dimethyl phthalate	163	7.057	7.063	-0.006	98	310179	1.00	1.06	
60 Coumarin	146	7.081	7.081	0.000	78	97865	1.00	1.10	
61 2,6-Dinitrotoluene	165	7.110	7.116	-0.006	96	60930	1.00	1.02	
62 Acenaphthylene	152	7.181	7.186	-0.005	98	399540	1.00	1.04	
63 3-Nitroaniline	138	7.269	7.275	-0.006	93	61122	1.00	0.9158	
* 64 Acenaphthene-d10	164	7.316	7.322	-0.006	98	1657692	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.340	7.339	0.001	98	263061	1.00	1.06	
66 Acenaphthene	154	7.345	7.351	-0.006	95	290554	1.00	1.06	
67 2,4-Dinitrophenol	184	7.369	7.375	-0.006	94	26096	2.00	2.65	
68 4-Nitrophenol	65	7.422	7.433	-0.011	91	82385	2.00	1.76	
69 2,4-Dinitrotoluene	165	7.492	7.498	-0.006	94	74449	1.00	1.00	
70 Dibenzofuran	168	7.510	7.510	0.000	96	395827	1.00	1.09	
72 2,3,4,6-Tetrachlorophenol	232	7.628	7.628	0.000	93	70008	1.00	0.9825	
73 Diethyl phthalate	149	7.728	7.733	-0.005	98	279775	1.00	1.03	
75 Fluorene	166	7.834	7.833	0.001	93	295859	1.00	1.09	
74 4-Chlorophenyl phenyl ethe	204	7.834	7.833	0.001	78	150099	1.00	1.08	
76 4-Nitroaniline	138	7.839	7.851	-0.012	92	57074	1.00	0.9066	
77 4,6-Dinitro-2-methylphenol	198	7.875	7.880	-0.005	83	41732	2.00	2.49	
78 N-Nitrosodiphenylamine	169	7.939	7.945	-0.006	98	208574	1.00	1.04	
79 1,2-Diphenylhydrazine	77	7.981	7.986	-0.005	95	289117	1.00	1.03	
$ 80 2,4,6-Tribromophenol	330	8.057	8.063	-0.006	93	48113	1.00	0.9338	
81 4-Bromophenyl phenyl ether	248	8.292	8.298	-0.006	90	86090	1.00	1.02	
82 Hexachlorobenzene	284	8.357	8.363	-0.006	97	100066	1.00	0.99	
84 Pentachlorophenol	266	8.539	8.545	-0.006	93	86948	2.00	1.71	
85 Pentachloronitrobenzene	237	8.557	8.557	0.000	90	33253	1.00	0.9186	
86 n-Octadecane	57	8.628	8.627	0.001	91	168550	1.00	0.9720	
* 87 Phenanthrene-d10	188	8.716	8.722	-0.006	98	2670521	8.00	8.00	
88 Phenanthrene	178	8.739	8.739	0.000	96	402662	1.00	1.06	
89 Anthracene	178	8.786	8.786	0.000	99	400199	1.00	1.03	
90 Carbazole	167	8.934	8.939	-0.005	96	328466	1.00	1.03	
91 Di-n-butyl phthalate	149	9.275	9.275	0.001	99	322108	1.00	0.9119	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.863	9.869	-0.006	98	350085	1.00	0.9757	
93 Benzidine	184	9.992	9.992	0.000	99	67874	1.00	1.01	
94 Pyrene	202	10.075	10.080	-0.005	98	360074	1.00	1.08	
95 Bisphenol-A	213	10.133	10.127	0.006	98	43295	1.00	1.11	
$ 96 Terphenyl-d14	244	10.233	10.233	0.000	98	266231	1.00	0.99	
97 Butyl benzyl phthalate	149	10.733	10.733	0.000	98	92308	1.00	0.8155	
99 Carbamazepine	193	10.839	10.845	-0.006	93	75782	1.00	1.24	
100 3,3'-Dichlorobenzidine	252	11.310	11.316	-0.006	99	94747	1.00	1.03	
101 Benzo[a]anthracene	228	11.333	11.339	-0.006	99	276600	1.00	0.9891	
* 102 Chrysene-d12	240	11.345	11.351	-0.006	99	1879930	8.00	8.00	
104 Chrysene	228	11.375	11.380	-0.005	99	269904	1.00	1.00	
103 Bis(2-ethylhexyl) phthalat	149	11.392	11.392	0.000	88	129765	1.00	0.9541	
105 Di-n-octyl phthalate	149	12.222	12.227	-0.005	97	178459	1.00	0.7865	
106 Benzo[b]fluoranthene	252	12.704	12.710	-0.006	98	265792	1.00	0.9793	
107 Benzo[k]fluoranthene	252	12.739	12.745	-0.006	99	309689	1.00	1.01	
108 Benzo[a]pyrene	252	13.157	13.162	-0.005	98	254384	1.00	0.9587	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1944877	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.792	14.804	-0.012	98	239938	1.00	0.9106	
111 Dibenz(a,h)anthracene	278	14.833	14.845	-0.012	96	267881	1.00	0.9520	
112 Benzo[g,h,i]perylene	276	15.221	15.239	-0.018	97	293652	1.00	0.9375	
S 119 Total Cresols	1				0			2.19	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_BNAL3_00035 Amount Added: 1.00 Units: mL

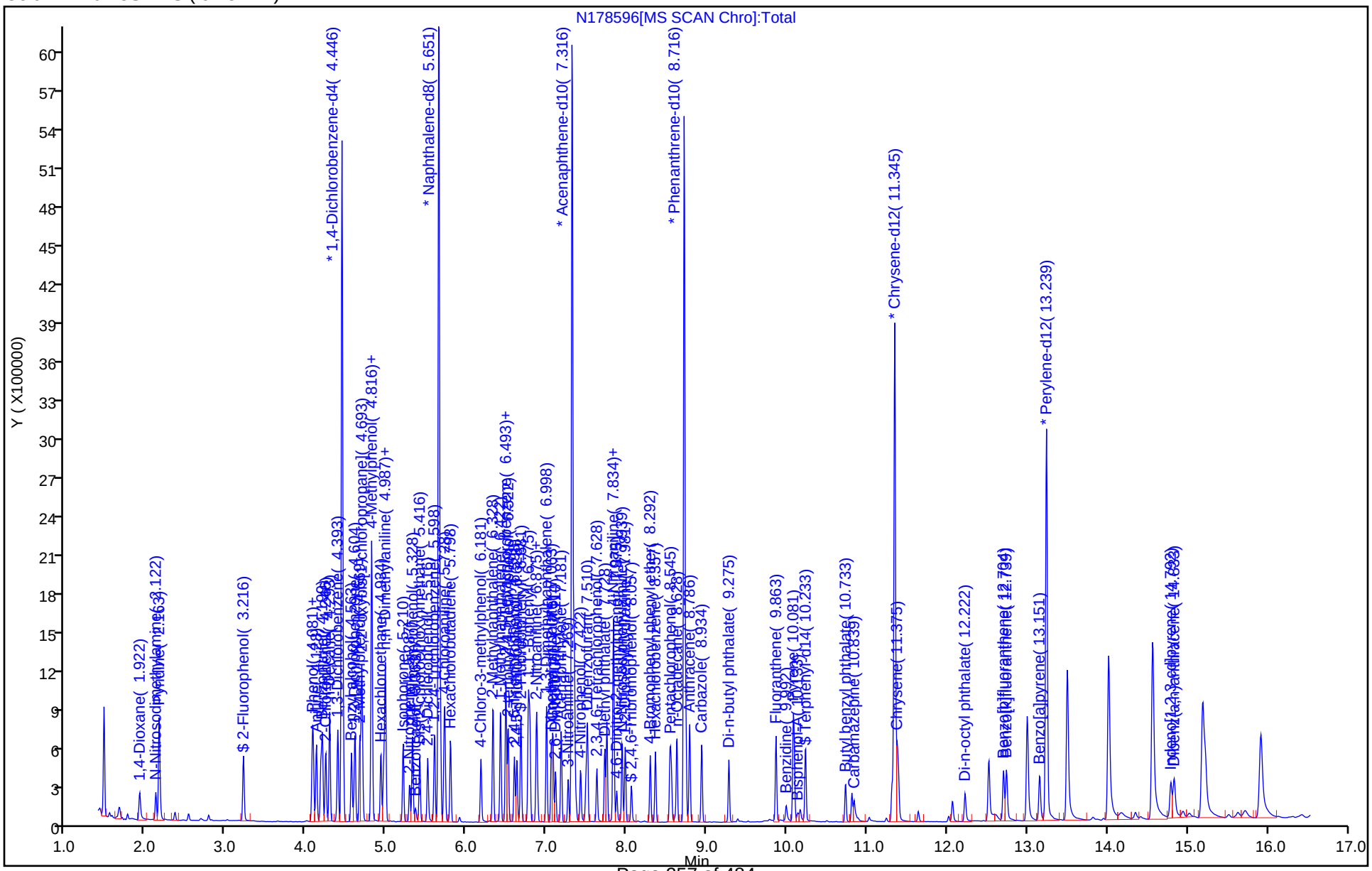
Report Date: 26-Oct-2018 09:23:27 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178596.d

Injection Date:	25-Oct-2018 21:48:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178597.d
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Oct-2018 22:09:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-008
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:31 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:18:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	3.216	3.210	0.006	94	37337	0.2000	0.2068	
$ 6 Phenol-d5	99	4.075	4.081	-0.006	96	44014	0.2000	0.2103	
9 Bis(2-chloroethyl)ether	93	4.181	4.187	-0.006	98	36704	0.2000	0.2092	
* 14 1,4-Dichlorobenzene-d4	152	4.446	4.445	0.001	98	971579	8.00	8.00	
20 N-Methylaniline	106	4.810	4.816	-0.006	87	37890	0.2000	0.2199	
22 N-Nitrosodi-n-propylamine	70	4.822	4.828	-0.006	86	23376	0.2000	0.2206	
25 Hexachloroethane	117	4.928	4.934	-0.006	92	15603	0.2000	0.2135	
$ 27 Nitrobenzene-d5	82	4.963	4.969	-0.006	90	33747	0.2000	0.1966	
28 Nitrobenzene	123	4.981	4.987	-0.006	95	14634	0.2000	0.1954	
29 n,n'-Dimethylaniline	120	4.987	4.992	-0.005	95	43709	0.2000	0.2225	
30 Isophorone	82	5.210	5.216	-0.006	99	58648	0.2000	0.2035	
37 1,2,4-Trichlorobenzene	180	5.598	5.604	-0.006	94	34087	0.2000	0.2175	
* 38 Naphthalene-d8	136	5.651	5.657	-0.006	100	3685177	8.00	8.00	
41 Hexachlorobutadiene	225	5.798	5.804	-0.006	95	18261	0.2000	0.2042	
44 2-Methylnaphthalene	142	6.328	6.334	-0.006	85	63999	0.2000	0.2161	
45 1-Methylnaphthalene	142	6.422	6.428	-0.006	92	59886	0.2000	0.2161	
48 2-tertbutyl-4-methylphenol	149	6.516	6.522	-0.006	89	37927	0.2000	0.2105	
49 2,4,6-Trichlorophenol	196	6.598	6.598	0.000	86	14274	0.2000	0.1657	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	97	68866	0.2000	0.2117	
61 2,6-Dinitrotoluene	165	7.110	7.116	-0.006	88	7522	0.2000	0.1998	
* 64 Acenaphthene-d10	164	7.316	7.322	-0.006	98	1566285	8.00	8.00	
69 2,4-Dinitrotoluene	165	7.492	7.498	-0.006	92	9026	0.2000	0.2010	
$ 80 2,4,6-Tribromophenol	330	8.057	8.063	-0.006	91	7714	0.2000	0.1585	
82 Hexachlorobenzene	284	8.357	8.363	-0.006	96	19597	0.2000	0.1994	
* 87 Phenanthrene-d10	188	8.716	8.722	-0.006	98	2608825	8.00	8.00	
$ 96 Terphenyl-d14	244	10.228	10.233	-0.005	98	55292	0.2000	0.2094	
100 3,3'-Dichlorobenzidine	252	11.310	11.316	-0.006	97	12454	0.2000	0.1736	
101 Benzo[a]anthracene	228	11.333	11.339	-0.006	98	55735	0.2000	0.2028	
* 102 Chrysene-d12	240	11.345	11.351	-0.006	99	1847096	8.00	8.00	
104 Chrysene	228	11.375	11.380	-0.005	98	52745	0.2000	0.1983	
103 Bis(2-ethylhexyl) phthalat	149	11.392	11.392	0.000	86	18505	0.2000	0.1405	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Benzo[b]fluoranthene	252	12.704	12.710	-0.006	98	49175	0.2000	0.1910	
107 Benzo[k]fluoranthene	252	12.739	12.745	-0.006	98	57775	0.2000	0.1984	
108 Benzo[a]pyrene	252	13.151	13.162	-0.011	98	46456	0.2000	0.1846	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1844896	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.792	14.804	-0.012	97	40281	0.2000	0.1612	M
111 Dibenz(a,h)anthracene	278	14.833	14.845	-0.012	96	46950	0.2000	0.1759	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_BNAL2_00030 Amount Added: 1.00 Units: mL

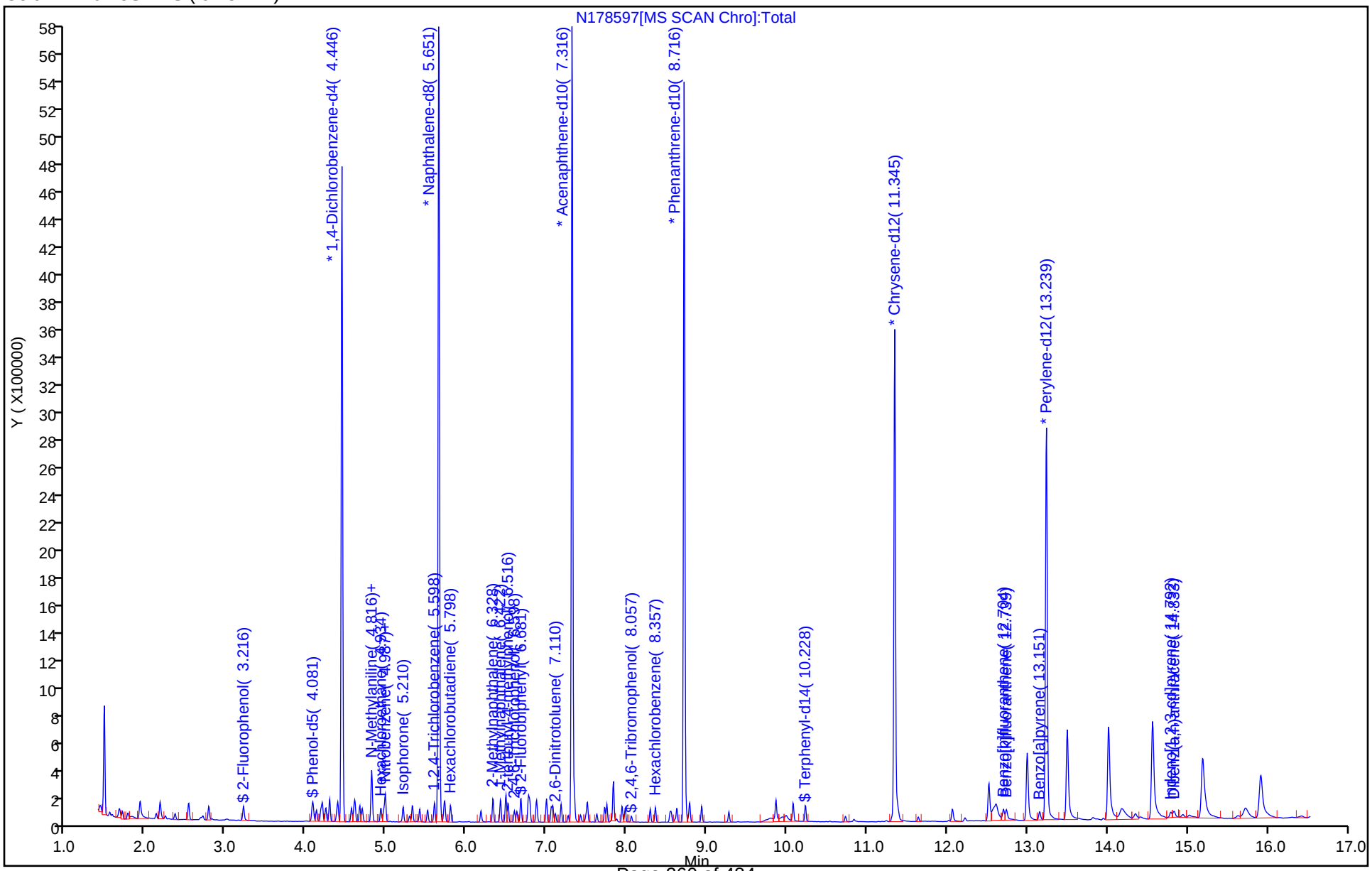
Report Date: 26-Oct-2018 09:23:33 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178597.d

Injection Date:	25-Oct-2018 22:09:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	STD02			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178598.d
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Oct-2018 22:30:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-009
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:37 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:18:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 Phenol-d5	99	4.075	4.081	-0.006	95	22357	0.1000	0.1028	
9 Bis(2-chloroethyl)ether	93	4.181	4.187	-0.006	95	20018	0.1000	0.1098	
* 14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	97	1009662	8.00	8.00	
20 N-Methylaniline	106	4.810	4.816	-0.006	64	8425	0.1000	0.0939	
22 N-Nitrosodi-n-propylamine	70	4.822	4.828	-0.006	85	10846	0.1000	0.0985	
25 Hexachloroethane	117	4.928	4.934	-0.006	91	7881	0.1000	0.1038	
$ 27 Nitrobenzene-d5	82	4.963	4.969	-0.006	91	16867	0.1000	0.0954	
28 Nitrobenzene	123	4.981	4.987	-0.006	92	6908	0.1000	0.0888	
29 n,n'-Dimethylaniline	120	4.987	4.992	-0.006	97	12410	0.1000	0.0932	
37 1,2,4-Trichlorobenzene	180	5.598	5.604	-0.006	93	16763	0.1000	0.1038	
* 38 Naphthalene-d8	136	5.651	5.657	-0.006	100	3797671	8.00	8.00	
41 Hexachlorobutadiene	225	5.798	5.804	-0.006	96	9816	0.1000	0.1065	
$ 51 2-Fluorobiphenyl	172	6.681	6.681	0.000	97	36883	0.1000	0.1113	
* 64 Acenaphthene-d10	164	7.316	7.322	-0.006	98	1596571	8.00	8.00	
82 Hexachlorobenzene	284	8.357	8.363	-0.006	95	10125	0.1000	0.1027	
* 87 Phenanthrene-d10	188	8.716	8.722	-0.006	98	2617557	8.00	8.00	
$ 96 Terphenyl-d14	244	10.227	10.233	-0.006	98	26829	0.1000	0.1094	
101 Benzo[a]anthracene	228	11.333	11.339	-0.006	97	25655	0.1000	0.1005	
* 102 Chrysene-d12	240	11.345	11.351	-0.006	99	1715317	8.00	8.00	
106 Benzo[b]fluoranthene	252	12.704	12.710	-0.006	98	21535	0.1000	0.0912	
107 Benzo[k]fluoranthene	252	12.739	12.745	-0.006	98	25656	0.1000	0.0960	
108 Benzo[a]pyrene	252	13.151	13.162	-0.011	98	20368	0.1000	0.0882	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1692199	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.792	14.804	-0.012	98	16716	0.1000	0.0729	
111 Dibenz(a,h)anthracene	278	14.833	14.845	-0.012	96	20178	0.1000	0.0824	

Reagents:

SM_BNAL1_00028 Amount Added: 1.00 Units: mL

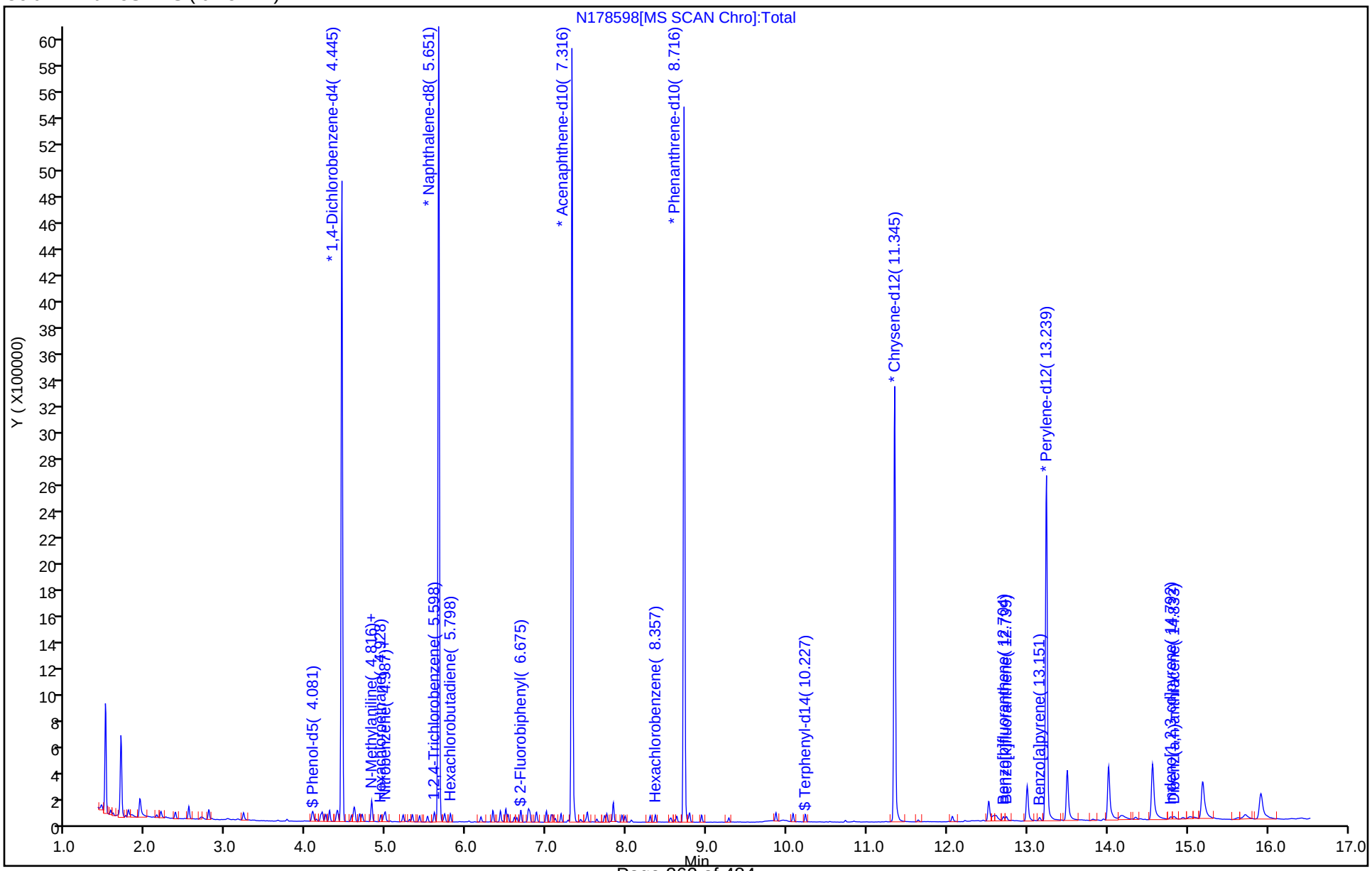
Report Date: 26-Oct-2018 09:23:39 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178598.d

Injection Date:	25-Oct-2018 22:30:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	STD01			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 22:50 Calibration End Date: 10/26/2018 00:56 Calibration ID: 71737

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 460-563162/16	N178605.d
Level 2	STD1 460-563162/15	N178604.d
Level 3	STD2 460-563162/14	N178603.d
Level 4	STD4 460-563162/13	N178602.d
Level 5	STD10 460-563162/10	N178599.d
Level 6	STD16 460-563162/12	N178601.d
Level 7	STD24 460-563162/11	N178600.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 4	LVL 5		B	M1	M2								
Benzaldehyde	1.2576 1.1994	1.2407 1.1684	1.2525	1.2420	1.1982	Ave		1.2227			0.0100	2.8		20.0			
Caprolactam	0.0471 0.0862	0.0592 +++++	0.0696	0.0781	0.0849	QuaF		0.0773	0.0005782		0.0100				0.9990		0.9900
Atrazine	0.1454 0.2070	0.1793 0.2082	0.1929	0.1989	0.2118	Ave		0.1919			0.0100	12.1		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 Edison Job No.: 460-170982-1 Analy Batch No.: 563162

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2018 22:50 Calibration End Date: 10/26/2018 00:56 Calibration ID: 71737

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 460-563162/16	N178605.d
Level 2	STD1 460-563162/15	N178604.d
Level 3	STD2 460-563162/14	N178603.d
Level 4	STD4 460-563162/13	N178602.d
Level 5	STD10 460-563162/10	N178599.d
Level 6	STD16 460-563162/12	N178601.d
Level 7	STD24 460-563162/11	N178600.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzaldehyde	DCBd 4	Ave	29946 2230960	145219 3202926	282978	590852	1578247	0.200 16.0	1.00 24.0	2.00	4.00	10.0
Caprolactam	NPT	QuaF	4166 604516	26173 +++++	59731	139555	408683	0.200 16.0	1.00 +++++	2.00	4.00	10.0
Atrazine	PHN	Ave	9373 1069270	58943 1592496	123693	261154	752741	0.200 16.0	1.00 24.0	2.00	4.00	10.0

Curve Type Legend:

Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178599.d
Lims ID: std10
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Oct-2018 22:50:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-010
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub19

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:42 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:19:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.028	4.028	0.000	94	1578247	10.0	9.80	
* 14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	97	1053736	8.00	8.00	
* 38 Naphthalene-d8	136	5.651	5.651	0.000	100	3850625	8.00	8.00	
42 Caprolactam	113	6.028	6.028	0.000	90	408683	10.0	10.2	
* 64 Acenaphthene-d10	164	7.316	7.316	0.000	98	1647800	8.00	8.00	
83 Atrazine	200	8.451	8.451	0.000	94	752741	10.0	11.0	
* 87 Phenanthrene-d10	188	8.716	8.716	0.000	98	2843447	8.00	8.00	
* 102 Chrysene-d12	240	11.345	11.345	0.000	99	2074800	8.00	8.00	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	2101052	8.00	8.00	

Reagents:

SM_BNAL5B_00039 Amount Added: 1.00 Units: mL

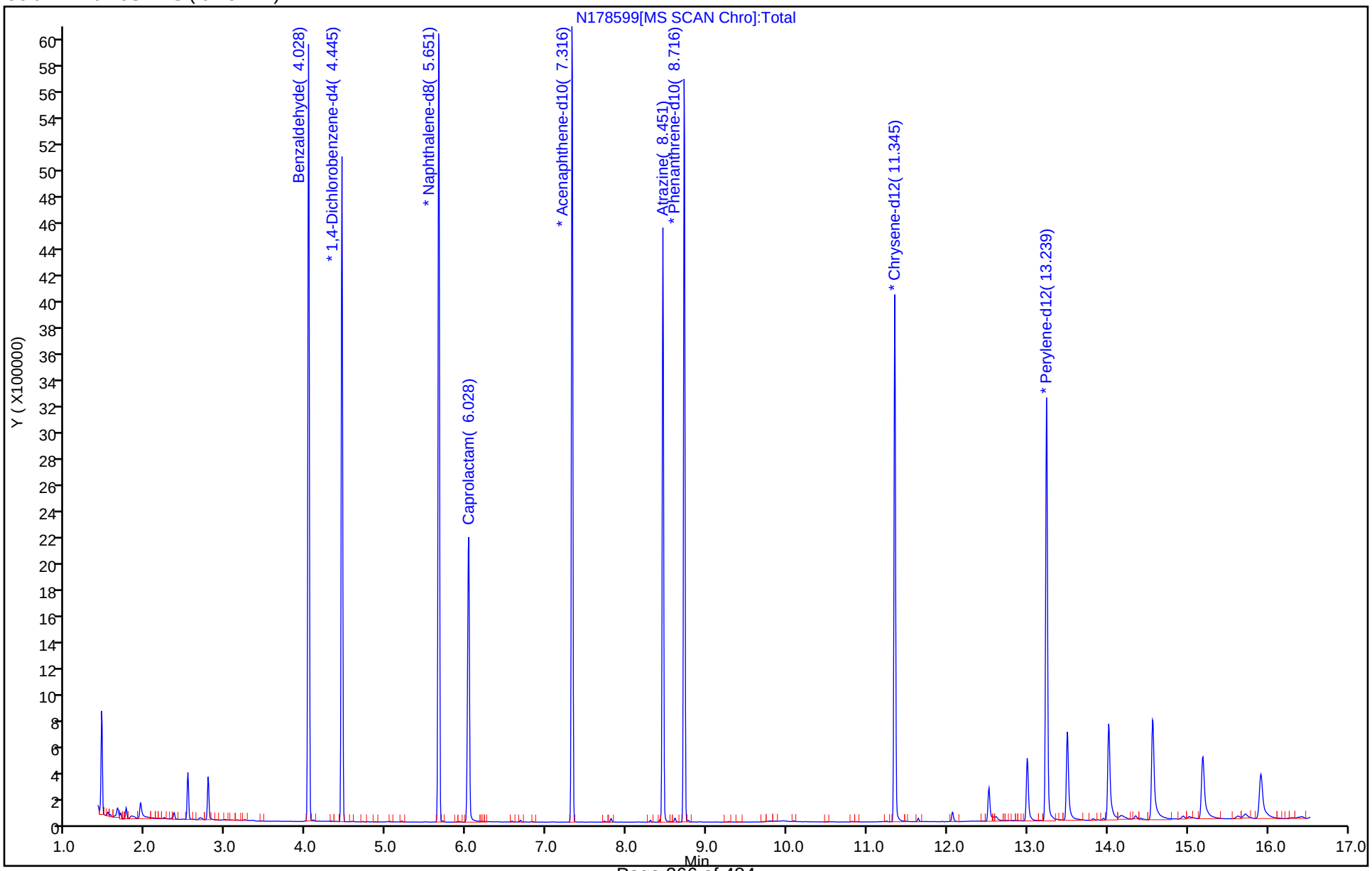
Report Date: 26-Oct-2018 09:23:44 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178599.d

Injection Date:	25-Oct-2018 22:50:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	std10			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178600.d
Lims ID: std24
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 25-Oct-2018 23:11:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-011
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub19

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:46 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:19:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.028	4.028	0.000	95	3202926	24.0	22.9	
* 14 1,4-Dichlorobenzene-d4	152	4.446	4.445	0.001	97	913739	8.00	8.00	
* 38 Naphthalene-d8	136	5.651	5.651	0.000	100	3459027	8.00	8.00	
42 Caprolactam	113	6.040	6.028	0.012	90	900045	24.0	23.0	
* 64 Acenaphthene-d10	164	7.316	7.316	0.000	96	1587216	8.00	8.00	
83 Atrazine	200	8.457	8.451	0.006	94	1592496	24.0	26.0	
* 87 Phenanthrene-d10	188	8.716	8.716	0.000	98	2549966	8.00	8.00	
* 102 Chrysene-d12	240	11.345	11.345	0.000	99	1808909	8.00	8.00	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1842003	8.00	8.00	

Reagents:

SM_BNAL7B_00013 Amount Added: 1.00 Units: mL

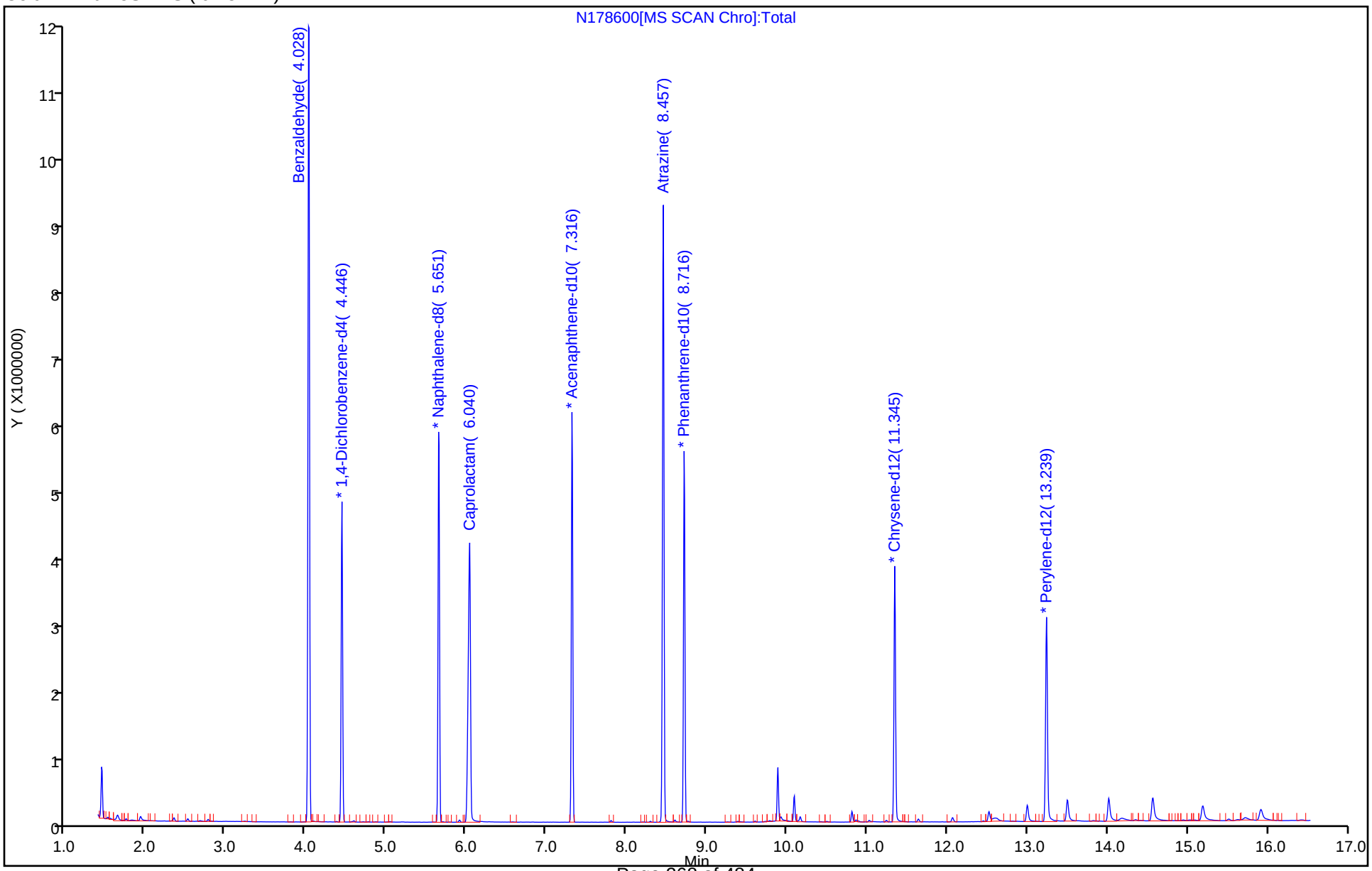
Report Date: 26-Oct-2018 09:23:48 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178600.d

Injection Date:	25-Oct-2018 23:11:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	std24			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178601.d
Lims ID: std16
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-Oct-2018 23:32:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-012
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub19

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:50 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:19:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.028	4.028	0.000	95	2230960	16.0	15.7	
* 14 1,4-Dichlorobenzene-d4	152	4.446	4.445	0.001	97	930050	8.00	8.00	
* 38 Naphthalene-d8	136	5.657	5.651	0.006	99	3508498	8.00	8.00	
42 Caprolactam	113	6.034	6.028	0.006	91	604516	16.0	15.9	
* 64 Acenaphthene-d10	164	7.316	7.316	0.000	96	1626141	8.00	8.00	
83 Atrazine	200	8.451	8.451	0.000	94	1069270	16.0	17.3	
* 87 Phenanthrene-d10	188	8.716	8.716	0.000	98	2583301	8.00	8.00	
* 102 Chrysene-d12	240	11.345	11.345	0.000	99	1845418	8.00	8.00	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1853058	8.00	8.00	

Reagents:

SM_BNAL6B_00020 Amount Added: 1.00 Units: mL

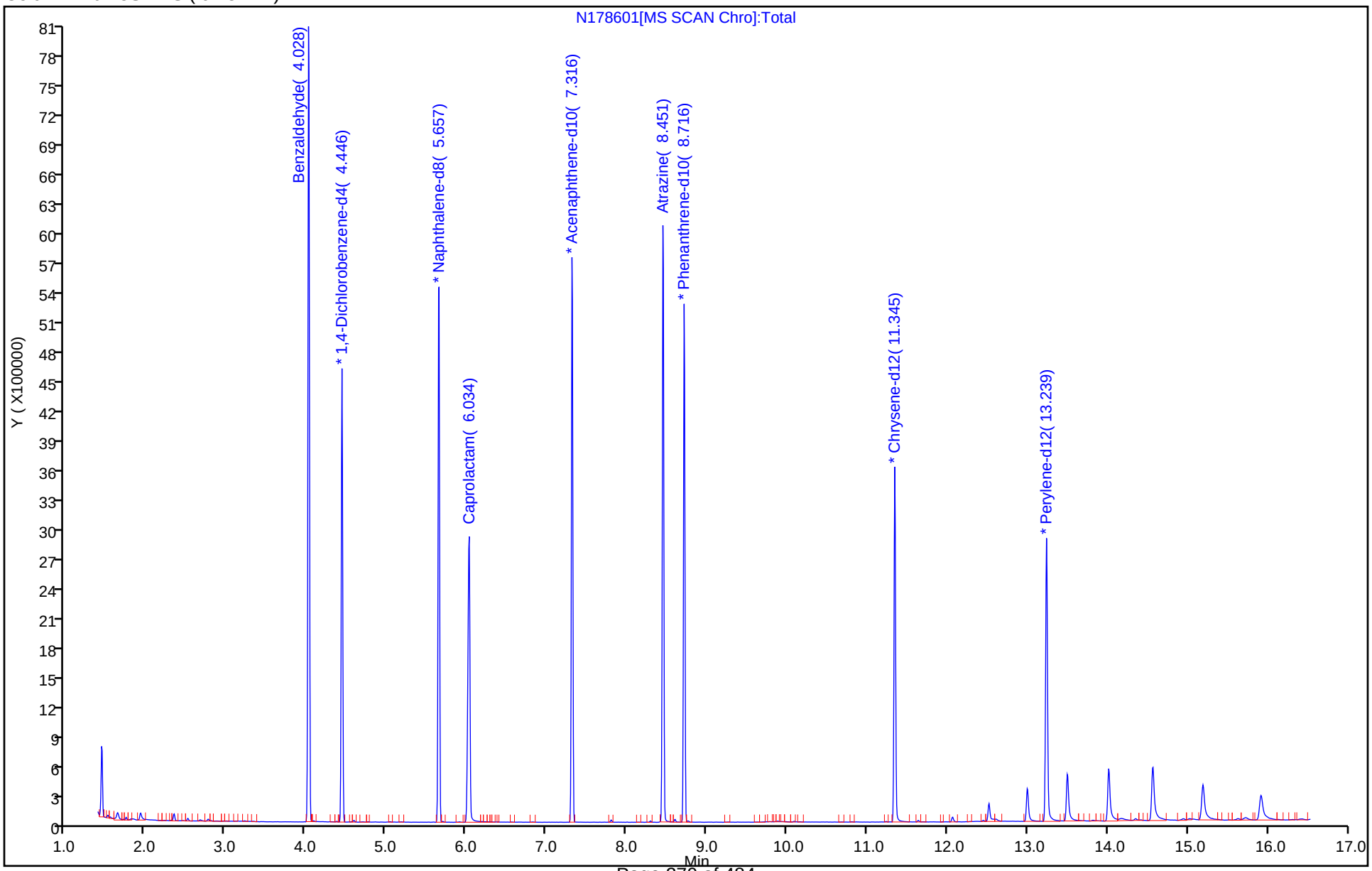
Report Date: 26-Oct-2018 09:23:52 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178601.d

Injection Date:	25-Oct-2018 23:32:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	std16			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178602.d
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2018 23:53:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-013
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub19

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:54 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:19:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.028	4.028	0.000	95	590852	4.00	4.06	
* 14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	97	951445	8.00	8.00	
* 38 Naphthalene-d8	136	5.657	5.651	0.006	99	3575870	8.00	8.00	
42 Caprolactam	113	6.016	6.028	-0.012	90	139555	4.00	3.92	
* 64 Acenaphthene-d10	164	7.316	7.316	0.000	96	1656464	8.00	8.00	
83 Atrazine	200	8.451	8.451	0.000	94	261154	4.00	4.15	
* 87 Phenanthrene-d10	188	8.716	8.716	0.000	98	2625338	8.00	8.00	
* 102 Chrysene-d12	240	11.345	11.345	0.000	99	1855688	8.00	8.00	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1888152	8.00	8.00	

Reagents:

SM_BNAL4B_00029 Amount Added: 1.00 Units: mL

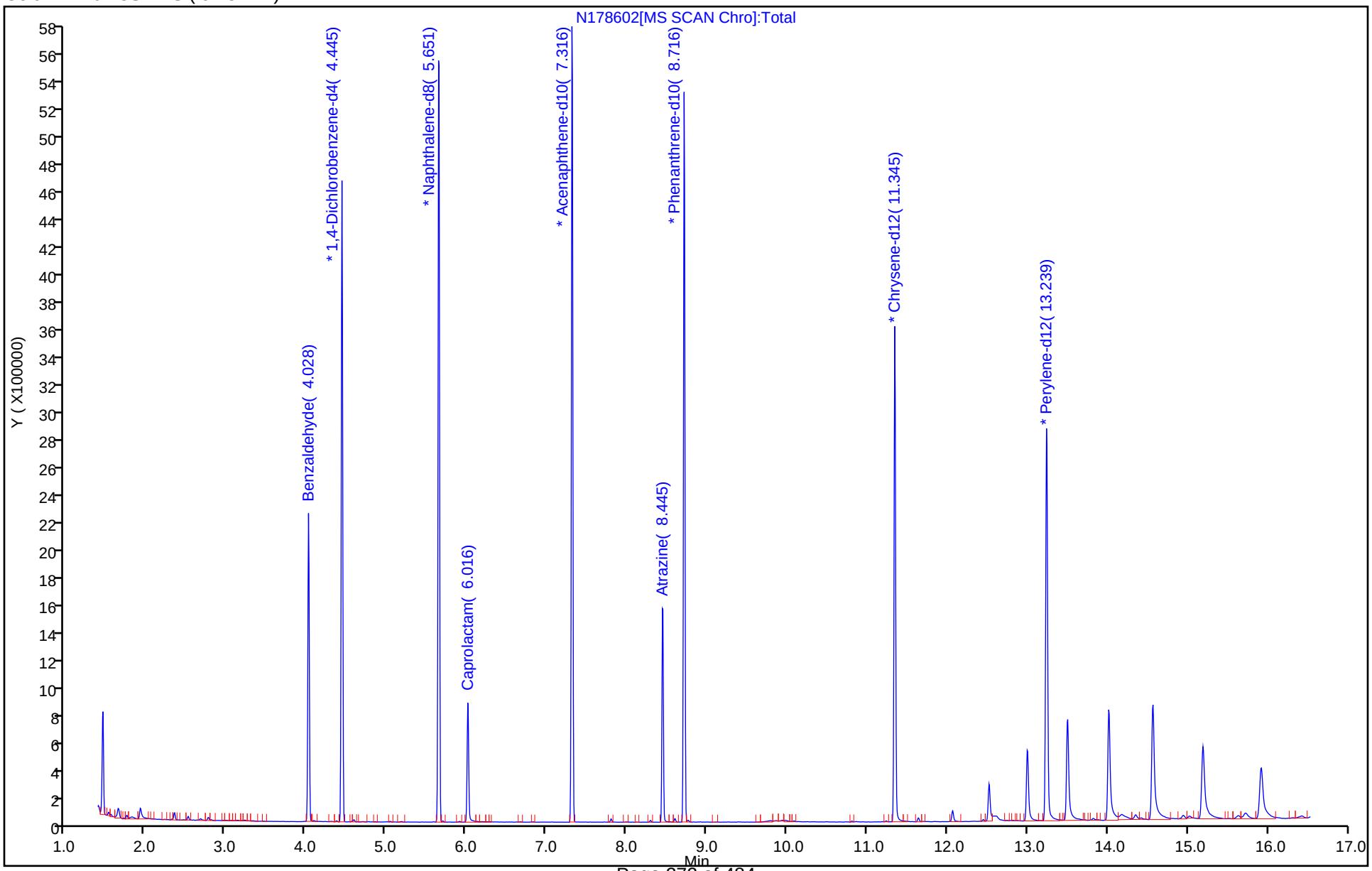
Report Date: 26-Oct-2018 09:23:55 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178602.d

Injection Date:	25-Oct-2018 23:53:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	std4			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178603.d
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Oct-2018 00:14:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-014
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub19

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:23:58 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:19:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.028	4.028	0.000	94	282978	2.00	2.05	
* 14 1,4-Dichlorobenzene-d4	152	4.445	4.445	0.000	98	903749	8.00	8.00	
* 38 Naphthalene-d8	136	5.657	5.651	0.006	99	3434817	8.00	8.00	
42 Caprolactam	113	6.016	6.028	-0.012	89	59731	2.00	1.78	M
* 64 Acenaphthene-d10	164	7.316	7.316	0.000	96	1612718	8.00	8.00	
83 Atrazine	200	8.445	8.451	-0.006	93	123693	2.00	2.01	
* 87 Phenanthrene-d10	188	8.716	8.716	0.000	98	2565500	8.00	8.00	
* 102 Chrysene-d12	240	11.345	11.345	0.000	99	1770151	8.00	8.00	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1814612	8.00	8.00	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

SM_BNAL3B_00020 Amount Added: 1.00 Units: mL

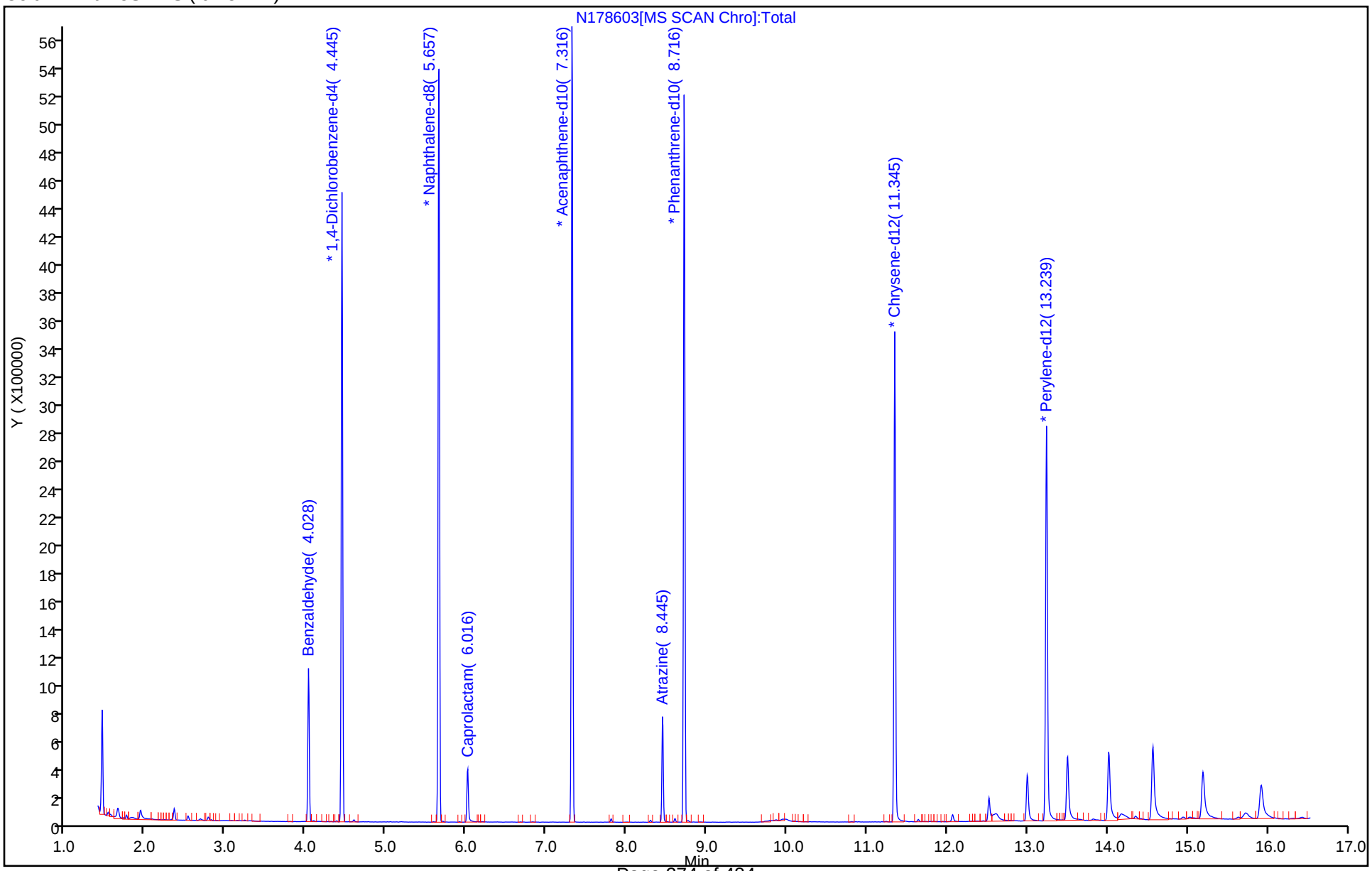
Report Date: 26-Oct-2018 09:23:59 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178603.d

Injection Date:	26-Oct-2018 00:14:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	std2			Worklist Smp#:	14
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178604.d
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Oct-2018 00:35:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-015
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub19

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:24:04 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:20:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.028	4.028	0.000	95	145219	1.00	1.01	
* 14 1,4-Dichlorobenzene-d4	152	4.446	4.445	0.001	97	936383	8.00	8.00	
* 38 Naphthalene-d8	136	5.657	5.651	0.006	99	3534566	8.00	8.00	
42 Caprolactam	113	6.010	6.028	-0.018	90	26173	1.00	0.7620	
* 64 Acenaphthene-d10	164	7.316	7.316	0.000	96	1638448	8.00	8.00	
83 Atrazine	200	8.445	8.451	-0.006	93	58943	1.00	0.9343	
* 87 Phenanthrene-d10	188	8.716	8.716	0.000	98	2629703	8.00	8.00	
* 102 Chrysene-d12	240	11.345	11.345	0.000	99	1822852	8.00	8.00	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1851464	8.00	8.00	

Reagents:

SM_BNAL2B_00024 Amount Added: 1.00 Units: mL

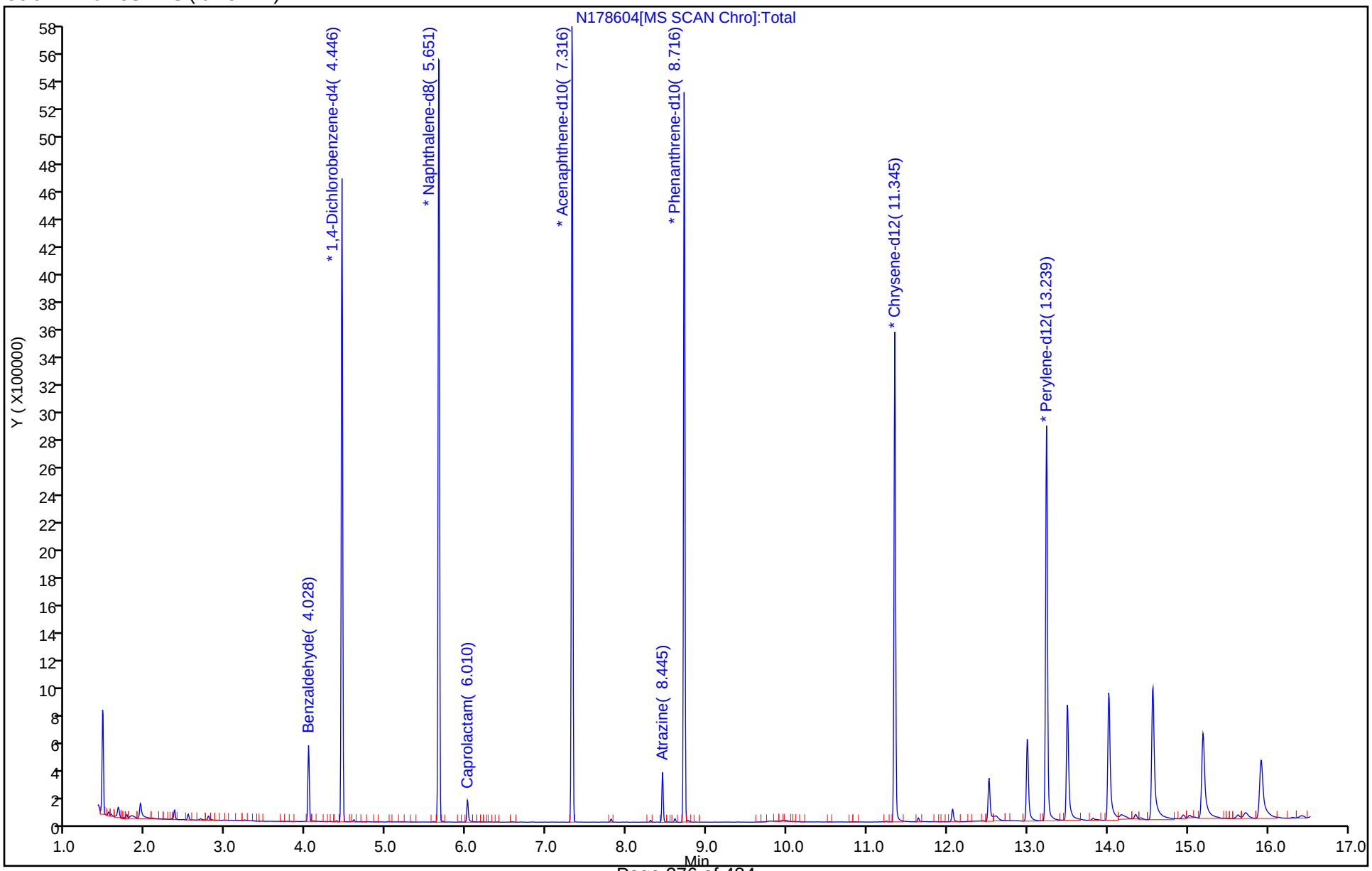
Report Date: 26-Oct-2018 09:24:04 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178604.d

Injection Date:	26-Oct-2018 00:35:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	std1			Worklist Smp#:	15
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d
Lims ID: std02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Oct-2018 00:56:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-016
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub19

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:24:07 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: johnstonm1 Date: 26-Oct-2018 07:20:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.028	4.028	0.000	94	29946	0.2000	0.2057	
* 14 1,4-Dichlorobenzene-d4	152	4.446	4.445	0.001	97	952458	8.00	8.00	
* 38 Naphthalene-d8	136	5.651	5.651	0.000	100	3538547	8.00	8.00	
42 Caprolactam	113	6.010	6.028	-0.018	87	4166	0.2000	0.1217	
* 64 Acenaphthene-d10	164	7.316	7.316	0.000	96	1659283	8.00	8.00	
83 Atrazine	200	8.445	8.451	-0.006	92	9373	0.2000	0.1515	
* 87 Phenanthrene-d10	188	8.716	8.716	0.000	98	2579065	8.00	8.00	
* 102 Chrysene-d12	240	11.345	11.345	0.000	99	1865040	8.00	8.00	
* 109 Perylene-d12	264	13.239	13.239	0.000	99	1950023	8.00	8.00	

Reagents:

SM_BNAL1B_00022 Amount Added: 1.00 Units: mL

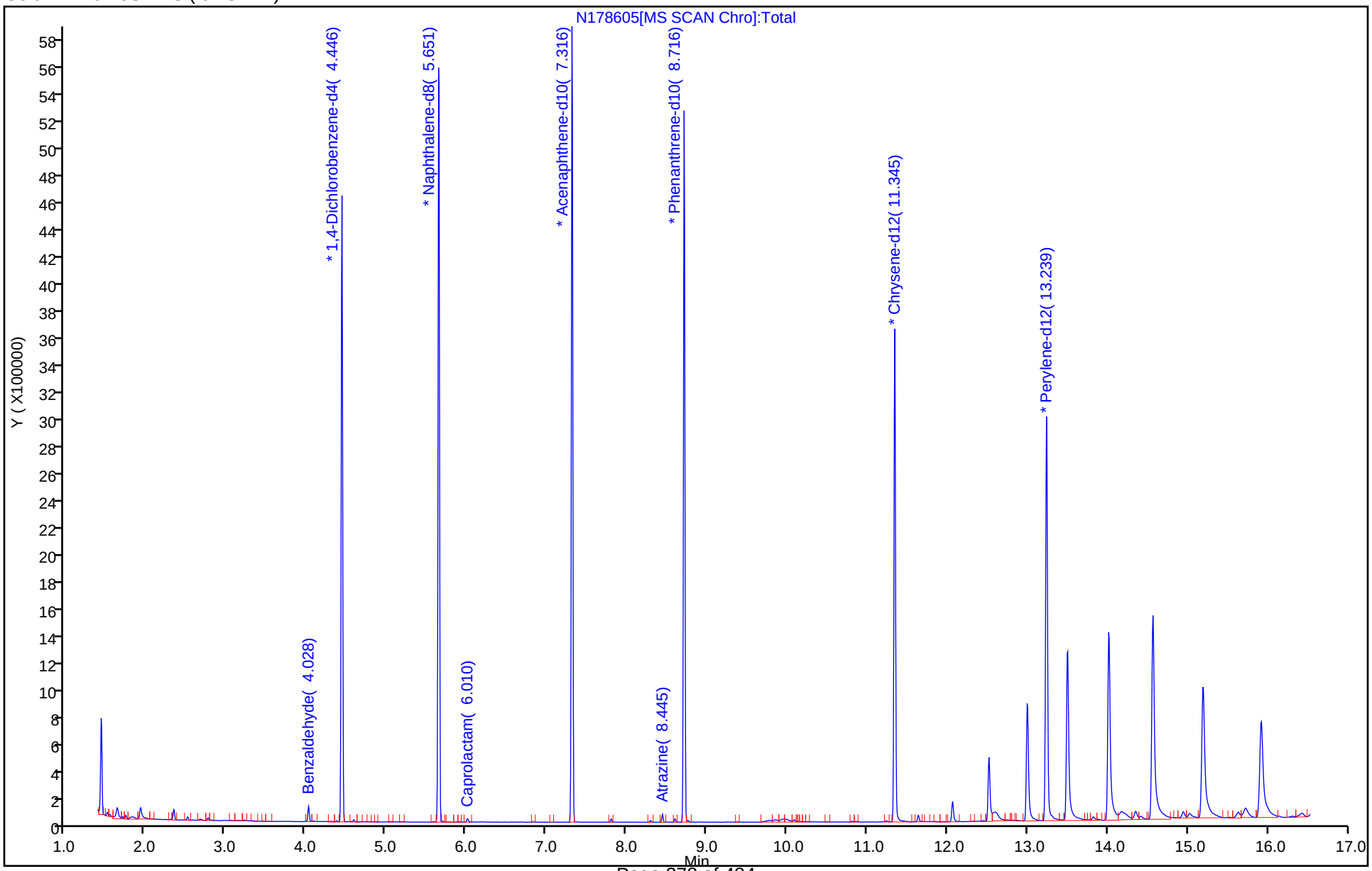
Report Date: 26-Oct-2018 09:24:08 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Injection Date:	26-Oct-2018 00:56:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	std02			Worklist Smp#:	16
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-574741/2 Calibration Date: 12/11/2018 07:32

Instrument ID: CBNAMS14 Calib Start Date: 10/25/2018 19:51

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 10/25/2018 22:30

Lab File ID: N179699a.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5455	0.4779	0.0100	8760	10000	-12.4	20.0
N-Nitrosodimethylamine	Ave	0.8272	0.6957		8410	10000	-15.9	20.0
Pyridine	Ave	1.379	1.253		18200	20000	-9.1	20.0
Phenol	Ave	1.737	1.646	0.8000	9480	10000	-5.2	20.0
Aniline	Ave	2.142	1.829		8540	10000	-14.6	20.0
Bis(2-chloroethyl)ether	Ave	1.445	1.191	0.7000	8240	10000	-17.6	20.0
2-Chlorophenol	Ave	1.456	1.356	0.8000	9320	10000	-6.8	20.0
n-Decane	Ave	1.499	1.757	0.0100	11700	10000	17.2	20.0
1,3-Dichlorobenzene	Ave	1.586	1.529		9640	10000	-3.6	20.0
1,4-Dichlorobenzene	Ave	1.576	1.532		9720	10000	-2.8	20.0
Benzyl alcohol	Ave	0.8302	0.7374	0.0100	8880	10000	-11.2	20.0
1,2-Dichlorobenzene	Ave	1.492	1.435		9620	10000	-3.8	20.0
2-Methylphenol	Ave	1.234	1.251	0.7000	10100	10000	1.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.780	1.986	0.0100	11200	10000	11.6	20.0
Acetophenone	Ave	1.797	2.036	0.0100	11300	10000	13.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.8725	0.9623	0.5000	11000	10000	10.3	20.0
3 & 4 Methylphenol	Ave	1.274	1.330		10400	10000	4.4	20.0
4-Methylphenol	Ave	1.274	1.330	0.6000	10400	10000	4.4	20.0
Hexachloroethane	Ave	0.6018	0.6399	0.3000	10600	10000	6.3	20.0
Nitrobenzene	Ave	0.6167	0.6580	0.2000	10700	10000	6.7	20.0
n,n'-Dimethylaniline	Lin2		2.201	0.0100	10900	10000	9.2	20.0
Isophorone	Ave	0.6255	0.6127	0.4000	9790	10000	-2.1	20.0
2-Nitrophenol	Ave	0.1615	0.1779	0.1000	11000	10000	10.1	20.0
2,4-Dimethylphenol	Ave	0.3086	0.2952	0.2000	9570	10000	-4.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.4105	0.3860	0.3000	9400	10000	-6.0	20.0
Benzoic acid	Qua		0.2048		14500	10000	45.4*	20.0
2,4-Dichlorophenol	Ave	0.2835	0.2846	0.2000	10000	10000	0.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3402	0.3196		9390	10000	-6.1	20.0
Naphthalene	Ave	1.006	1.027	0.7000	10200	10000	2.0	20.0
4-Chloroaniline	Ave	0.4078	0.4145	0.0100	10200	10000	1.7	20.0
Hexachlorobutadiene	Ave	0.1941	0.2036	0.0100	10500	10000	4.9	20.0
4-Chloro-3-methylphenol	Ave	0.2694	0.3068		11400	10000	13.9	20.0
2-Methylnaphthalene	Ave	0.6429	0.6746	0.4000	10500	10000	4.9	20.0
1-Methylnaphthalene	Ave	0.6017	0.6284	0.0100	10400	10000	4.4	20.0
Hexachlorocyclopentadiene	Ave	0.4380	0.4306	0.0500	9830	10000	-1.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7124	0.6802	0.0100	9550	10000	-4.5	20.0
2-tertbutyl-4-methylphenol	Ave	0.3912	0.4594	0.0100	11700	10000	17.4	20.0
2,4,6-Trichlorophenol	Ave	0.4399	0.4603	0.2000	10500	10000	4.6	20.0
2,4,5-Trichlorophenol	Ave	0.4799	0.4524	0.2000	9430	10000	-5.7	20.0
1,1'-Biphenyl	Ave	1.791	1.824	0.0100	10200	10000	1.9	20.0
2-Chloronaphthalene	Ave	1.378	1.377	0.8000	9990	10000	-0.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-574741/2 Calibration Date: 12/11/2018 07:32

Instrument ID: CBNAMS14 Calib Start Date: 10/25/2018 19:51

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 10/25/2018 22:30

Lab File ID: N179699a.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8806	0.9241	0.0100	10500	10000	4.9	20.0
2-Nitroaniline	Ave	0.4314	0.5526	0.0100	12800	10000	28.1*	20.0
1,3-Dimethylnaphthalene	Ave	1.111	1.165	0.0100	10500	10000	4.9	20.0
Dimethyl phthalate	Ave	1.408	1.520	0.0100	10800	10000	7.9	20.0
Coumarin	Ave	0.1796	0.2042	0.0100	11400	10000	13.7	20.0
2,6-Dinitrotoluene	Lin2		0.3297	0.2000	10700	10000	6.7	20.0
Acenaphthylene	Ave	1.849	1.843	0.9000	9970	10000	-0.3	20.0
3-Nitroaniline	Ave	0.3221	0.3461	0.0100	10700	10000	7.5	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.200	1.338	0.0100	11200	10000	11.5	20.0
Acenaphthene	Ave	1.321	1.327	0.9000	10000	10000	0.5	20.0
2,4-Dinitrophenol	Qua		0.1864	0.0100	26100	20000	30.4*	20.0
4-Nitrophenol	Ave	0.2256	0.3206	0.0100	28400	20000	42.1*	20.0
2,4-Dinitrotoluene	Lin2		0.4389	0.2000	11300	10000	13.0	20.0
Dibenzofuran	Ave	1.759	1.856	0.8000	10600	10000	5.5	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3439	0.3659	0.0100	10600	10000	6.4	20.0
Diethyl phthalate	Ave	1.305	1.512	0.0100	11600	10000	15.9	20.0
Fluorene	Ave	1.315	1.471	0.9000	11200	10000	11.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.6692	0.7207	0.4000	10800	10000	7.7	20.0
4-Nitroaniline	Ave	0.3038	0.3493	0.0100	11500	10000	15.0	20.0
4,6-Dinitro-2-methylphenol	Qua		0.1223	0.0100	22200	20000	11.1	20.0
N-Nitrosodiphenylamine	Ave	0.6002	0.5850	0.0100	9750	10000	-2.5	20.0
1,2-Diphenylhydrazine	Ave	0.8385	0.8962	0.0100	10700	10000	6.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2532	0.2360	0.1000	9320	10000	-6.8	20.0
Hexachlorobenzene	Ave	0.3013	0.2696	0.1000	8950	10000	-10.5	20.0
Pentachlorophenol	Ave	0.1527	0.1561	0.0500	20400	20000	2.2	20.0
Pentachloronitrobenzene	Ave	0.1084	0.1295	0.0100	11900	10000	19.4	20.0
n-Octadecane	Ave	0.5195	0.5956	0.0100	11500	10000	14.7	20.0
Phenanthrene	Ave	1.135	1.175	0.7000	10300	10000	3.5	20.0
Anthracene	Ave	1.159	1.213	0.7000	10500	10000	4.7	20.0
Carbazole	Ave	0.9580	1.032	0.0100	10800	10000	7.7	20.0
Di-n-butyl phthalate	Ave	1.058	1.234	0.0100	11700	10000	16.7	20.0
Fluoranthene	Ave	1.075	1.148	0.6000	10700	10000	6.8	20.0
Benzidine	Lin2		0.5739		11600	10000	16.5	20.0
Pyrene	Ave	1.424	1.365	0.6000	9590	10000	-4.1	20.0
Bisphenol-A	Qua		0.6000		13200	10000	32.2*	20.0
Butyl benzyl phthalate	Ave	0.4817	0.5740	0.0100	11900	10000	19.2	20.0
2,3,7,8-TCDD	Ave	0.2415	0.1653	0.0100	68.4	100	-31.6*	20.0
Carbamazepine	Qua		0.5767	0.0100	11300	10000	12.7	20.0
3,3'-Dichlorobenzidine	Qua		0.4726	0.0100	9790	10000	-2.1	20.0
Benzo[a]anthracene	Ave	1.190	1.215	0.8000	10200	10000	2.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-574741/2 Calibration Date: 12/11/2018 07:32

Instrument ID: CBNAMS14 Calib Start Date: 10/25/2018 19:51

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 10/25/2018 22:30

Lab File ID: N179699a.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.152	1.162	0.7000	10100	10000	0.9	20.0
Bis(2-ethylhexyl) phthalate	QuaF		0.7856	0.0100	11400	10000	14.4	20.0
Di-n-octyl phthalate	Ave	0.9333	1.233	0.0100	13200	10000	32.1*	20.0
Benzo[b]fluoranthene	Ave	1.116	1.224	0.7000	11000	10000	9.6	20.0
Benzo[k]fluoranthene	Ave	1.263	1.236	0.7000	9790	10000	-2.1	20.0
Benzo[a]pyrene	Ave	1.091	1.141	0.7000	10500	10000	4.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.084	1.246	0.5000	11500	10000	15.0	20.0
Dibenz(a,h)anthracene	Ave	1.158	1.281	0.4000	11100	10000	10.6	20.0
Benzo[g,h,i]perylene	Ave	1.288	1.337	0.5000	10400	10000	3.7	20.0
2-Fluorophenol (Surr)	Ave	1.487	1.247		8390	10000	-16.1	20.0
Phenol-d5 (Surr)	Ave	1.723	1.501		8710	10000	-12.9	20.0
Nitrobenzene-d5	Ave	0.3726	0.4096		11000	10000	9.9	20.0
2-Fluorobiphenyl	Ave	1.661	1.664		10000	10000	0.2	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2486	0.2624		10600	10000	5.5	20.0
Terphenyl-d14	Ave	1.143	1.037		9070	10000	-9.3	20.0

Report Date: 11-Dec-2018 10:43:14 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179699a.d
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Dec-2018 07:32:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083349-002
Operator ID: Instrument ID: CBNAMS14
Sublist: chrom-8270LVI_14*sub22

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 11-Dec-2018 10:43:09 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: manlangitf Date: 11-Dec-2018 08:02:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.663	1.663	0.000	96	401021	10.0	8.76	
2 N-Nitrosodimethylamine	74	1.875	1.875	0.000	64	583740	10.0	8.41	
3 Pyridine	79	1.910	1.910	0.000	78	2102850	20.0	18.2	
$ 4 2-Fluorophenol	112	2.987	2.987	0.000	89	1046308	10.0	8.39	
$ 6 Phenol-d5	99	3.881	3.881	0.000	96	1259433	10.0	8.71	
7 Phenol	94	3.893	3.893	0.000	90	1381363	10.0	9.48	
8 Aniline	93	3.910	3.910	0.000	95	1534564	10.0	8.54	
9 Bis(2-chloroethyl)ether	93	3.969	3.969	0.000	95	999233	10.0	8.24	
10 Benzonitrile	103	3.987	3.987	0.000	98	2034969	NC	NC	
11 2-Chlorophenol	128	4.028	4.028	0.000	92	1138177	10.0	9.32	
12 n-Decane	43	4.075	4.075	0.000	92	1474542	10.0	11.7	
13 1,3-Dichlorobenzene	146	4.175	4.175	0.000	91	1282610	10.0	9.64	
* 14 1,4-Dichlorobenzene-d4	152	4.228	4.228	0.000	97	671272	8.00	8.00	
15 1,4-Dichlorobenzene	146	4.240	4.240	0.000	91	1285457	10.0	9.72	
16 Benzyl alcohol	108	4.363	4.363	0.000	87	618729	10.0	8.88	
17 1,2-Dichlorobenzene	146	4.393	4.393	0.000	91	1204461	10.0	9.62	
18 2-Methylphenol	108	4.475	4.475	0.000	87	1049614	10.0	10.1	
19 2,2'-oxybis[1-chloropropan	45	4.487	4.487	0.000	89	1666841	10.0	11.2	
20 N-Methylaniline	106	4.604	4.604	0.000	89	1690750	10.0	10.4	
21 Acetophenone	105	4.616	4.616	0.000	89	1708258	10.0	11.3	
22 N-Nitrosodi-n-propylamine	70	4.616	4.616	0.000	95	807475	10.0	11.0	
23 3 & 4 Methylphenol	108	4.628	4.628	0.000	73	1116315	10.0	10.4	a
24 4-Methylphenol	108	4.628	4.628	0.000	94	1116315	10.0	10.4	a
25 Hexachloroethane	117	4.716	4.716	0.000	92	536949	10.0	10.6	
$ 27 Nitrobenzene-d5	82	4.757	4.757	0.000	95	1309383	10.0	11.0	
28 Nitrobenzene	123	4.775	4.775	0.000	88	552154	10.0	10.7	
29 n,n'-Dimethylaniline	120	4.781	4.781	0.000	95	1847061	10.0	10.9	
30 Isophorone	82	5.004	5.004	0.000	97	1958469	10.0	9.79	
32 2-Nitrophenol	139	5.081	5.081	0.000	77	568786	10.0	11.0	
33 2,4-Dimethylphenol	122	5.134	5.134	0.000	86	943581	10.0	9.57	
34 Bis(2-chloroethoxy)methane	93	5.216	5.216	0.000	98	1233977	10.0	9.40	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.234	5.234	0.000	91	654548	10.0	14.5	
36 2,4-Dichlorophenol	162	5.316	5.316	0.000	92	909786	10.0	10.0	
37 1,2,4-Trichlorobenzene	180	5.393	5.393	0.000	94	1021541	10.0	9.39	
* 38 Naphthalene-d8	136	5.446	5.446	0.000	100	2557341	8.00	8.00	
39 Naphthalene	128	5.463	5.463	0.000	98	3281382	10.0	10.2	
40 4-Chloroaniline	127	5.522	5.522	0.000	95	1325078	10.0	10.2	
41 Hexachlorobutadiene	225	5.593	5.593	0.000	92	650835	10.0	10.5	
43 4-Chloro-3-methylphenol	107	5.998	5.998	0.000	94	980604	10.0	11.4	
44 2-Methylnaphthalene	142	6.128	6.128	0.000	82	2156458	10.0	10.5	
45 1-Methylnaphthalene	142	6.222	6.222	0.000	91	2008686	10.0	10.4	
46 Hexachlorocyclopentadiene	237	6.287	6.287	0.000	96	612289	10.0	9.83	
47 1,2,4,5-Tetrachlorobenzene	216	6.293	6.293	0.000	94	967241	10.0	9.55	
48 2-tertbutyl-4-methylphenol	149	6.328	6.328	0.000	86	1468593	10.0	11.7	
49 2,4,6-Trichlorophenol	196	6.404	6.404	0.000	86	654516	10.0	10.5	
50 2,4,5-Trichlorophenol	196	6.440	6.440	0.000	92	643214	10.0	9.43	
$ 51 2-Fluorobiphenyl	172	6.481	6.481	0.000	97	2365804	10.0	10.0	
52 1,1'-Biphenyl	154	6.569	6.569	0.000	96	2593678	10.0	10.2	
53 2-Chloronaphthalene	162	6.587	6.587	0.000	95	1957603	10.0	10.0	
54 Phenyl ether	170	6.675	6.675	0.000	89	1314063	10.0	10.5	
55 2-Nitroaniline	65	6.687	6.687	0.000	92	785744	10.0	12.8	
57 1,3-Dimethylnaphthalene	156	6.798	6.798	0.000	89	1656652	10.0	10.5	
59 Dimethyl phthalate	163	6.869	6.869	0.000	97	2161029	10.0	10.8	
60 Coumarin	146	6.881	6.881	0.000	73	652800	10.0	11.4	
61 2,6-Dinitrotoluene	165	6.916	6.916	0.000	89	468755	10.0	10.7	
62 Acenaphthylene	152	6.981	6.981	0.000	97	2620922	10.0	9.97	
63 3-Nitroaniline	138	7.081	7.081	0.000	90	492169	10.0	10.7	
* 64 Acenaphthene-d10	164	7.116	7.116	0.000	98	1137553	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.145	7.145	0.000	94	1902487	10.0	11.2	
66 Acenaphthene	154	7.145	7.145	0.000	95	1886318	10.0	10.0	
67 2,4-Dinitrophenol	184	7.175	7.175	0.000	82	530087	20.0	26.1	
68 4-Nitrophenol	65	7.257	7.257	0.000	91	911866	20.0	28.4	
69 2,4-Dinitrotoluene	165	7.298	7.298	0.000	88	624051	10.0	11.3	
70 Dibenzofuran	168	7.310	7.310	0.000	94	2639052	10.0	10.6	
72 2,3,4,6-Tetrachlorophenol	232	7.434	7.434	0.000	89	520219	10.0	10.6	
73 Diethyl phthalate	149	7.540	7.540	0.000	97	2150311	10.0	11.6	
75 Fluorene	166	7.628	7.628	0.000	94	2091205	10.0	11.2	
74 4-Chlorophenyl phenyl ethe	204	7.634	7.634	0.000	82	1024743	10.0	10.8	
76 4-Nitroaniline	138	7.657	7.657	0.000	90	496693	10.0	11.5	
77 4,6-Dinitro-2-methylphenol	198	7.687	7.687	0.000	74	612580	20.0	22.2	
78 N-Nitrosodiphenylamine	169	7.745	7.745	0.000	98	1465219	10.0	9.75	
79 1,2-Diphenylhydrazine	77	7.781	7.781	0.000	99	2244707	10.0	10.7	
$ 80 2,4,6-Tribromophenol	330	7.863	7.863	0.000	94	373049	10.0	10.6	
81 4-Bromophenyl phenyl ether	248	8.092	8.092	0.000	81	591023	10.0	9.32	
82 Hexachlorobenzene	284	8.157	8.157	0.000	99	675351	10.0	8.95	
84 Pentachlorophenol	266	8.345	8.345	0.000	91	781877	20.0	20.4	
85 Pentachloronitrobenzene	237	8.357	8.357	0.000	89	324349	10.0	11.9	
86 n-Octadecane	57	8.434	8.434	0.000	97	1491829	10.0	11.5	
* 87 Phenanthrene-d10	188	8.516	8.516	0.000	98	2003761	8.00	8.00	
88 Phenanthrene	178	8.534	8.534	0.000	97	2942709	10.0	10.3	
89 Anthracene	178	8.581	8.581	0.000	99	3038768	10.0	10.5	
90 Carbazole	167	8.739	8.739	0.000	97	2584870	10.0	10.8	
91 Di-n-butyl phthalate	149	9.086	9.086	0.000	99	3091678	10.0	11.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Fluoranthene	202	9.663	9.663	0.000	98	2874584	10.0	10.7	
93 Benzidine	184	9.792	9.792	0.000	99	1437466	10.0	11.6	
94 Pyrene	202	9.875	9.875	0.000	98	2973267	10.0	9.59	
95 Bisphenol-A	213	9.951	9.951	0.000	97	1306676	10.0	13.2	
$ 96 Terphenyl-d14	244	10.033	10.033	0.000	98	2258695	10.0	9.07	
97 Butyl benzyl phthalate	149	10.522	10.522	0.000	99	1249926	10.0	11.9	
98 2,3,7,8-TCDD	320	10.610	10.610	0.000	88	3599	0.1000	0.0684	
99 Carbamazepine	193	10.628	10.628	0.000	91	1255918	10.0	11.3	
100 3,3'-Dichlorobenzidine	252	11.080	11.080	0.000	99	1029176	10.0	9.79	
101 Benzo[a]anthracene	228	11.092	11.092	0.000	99	2646630	10.0	10.2	
* 102 Chrysene-d12	240	11.104	11.104	0.000	99	1742216	8.00	8.00	
104 Chrysene	228	11.133	11.133	0.000	98	2531003	10.0	10.1	
103 Bis(2-ethylhexyl) phthalat	149	11.163	11.163	0.000	88	1710862	10.0	11.4	
105 Di-n-octyl phthalate	149	11.957	11.957	0.000	97	2788814	10.0	13.2	
106 Benzo[b]fluoranthene	252	12.410	12.410	0.000	98	2768615	10.0	11.0	
107 Benzo[k]fluoranthene	252	12.445	12.445	0.000	99	2796207	10.0	9.79	
108 Benzo[a]pyrene	252	12.839	12.839	0.000	98	2582253	10.0	10.5	
* 109 Perylene-d12	264	12.916	12.916	0.000	99	1809846	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.404	14.404	0.000	99	2819273	10.0	11.5	
111 Dibenz(a,h)anthracene	278	14.445	14.445	0.000	96	2897422	10.0	11.1	
112 Benzo[g,h,i]perylene	276	14.804	14.804	0.000	98	3023769	10.0	10.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SM_BNAL6_00053 Amount Added: 1.00 Units: mL

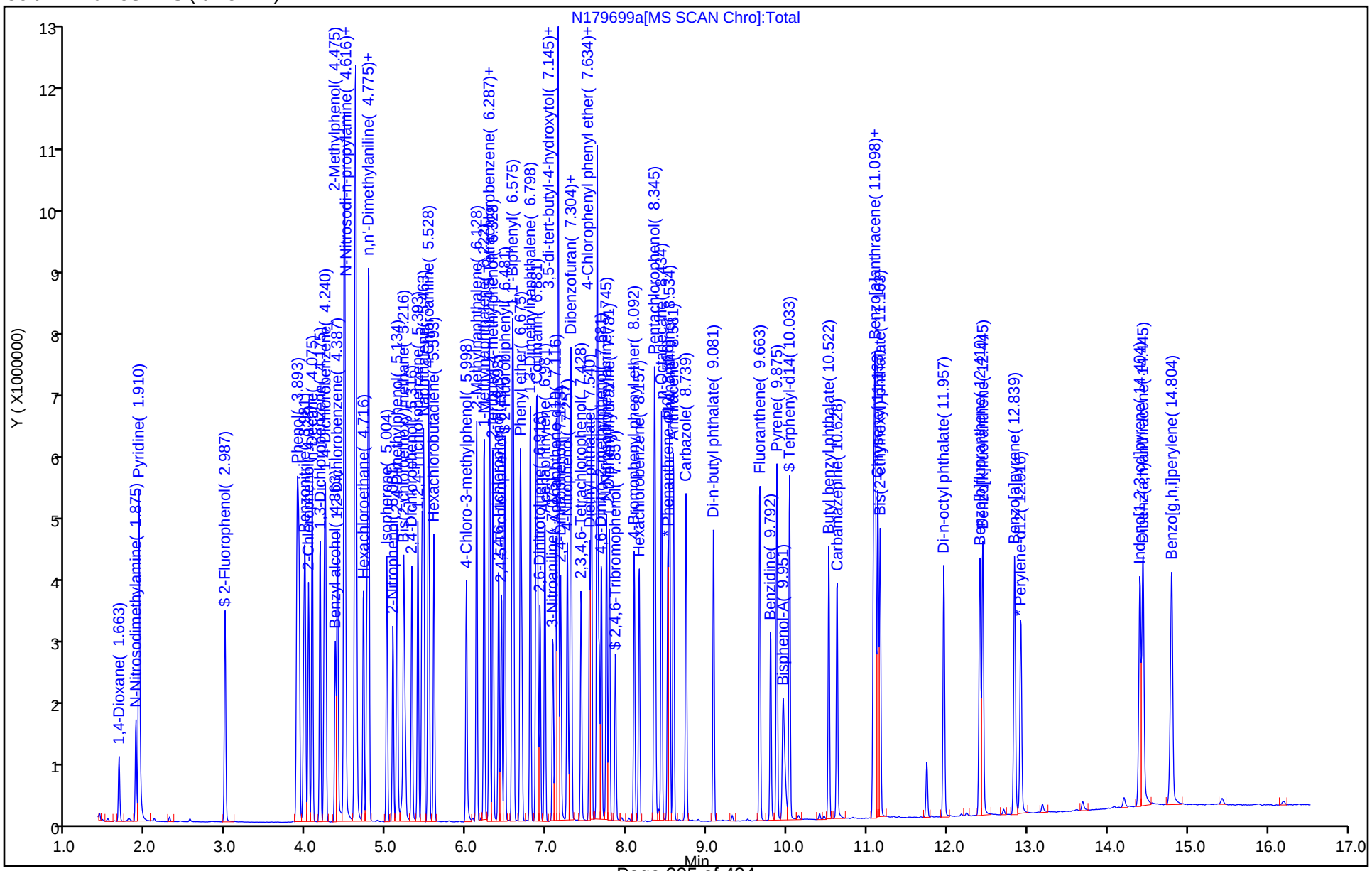
Report Date: 11-Dec-2018 10:43:14 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179699a.d

Injection Date:	11-Dec-2018 07:32:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 25-Oct-2018 19:24:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0080887-001
Operator ID: Instrument ID: CBNAMS14

Method: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 26-Oct-2018 09:22:32 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: hamziy Date: 25-Oct-2018 19:45:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Pentachlorophenol_T	266	5.199	5.199	0.000	93	546862	NR	NR	
56 Benzidine_T	184	6.910	6.910	0.000	99	2974431	NR	NR	
124 DFTPP									
125 4,4'-DDE	246	7.134	7.134	0.000	90	2185		NR	
126 4,4'-DDD	235	7.546	7.546	0.000	95	11114		NR	
127 4,4'-DDT	235	7.845	7.845	0.000	98	1105707	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

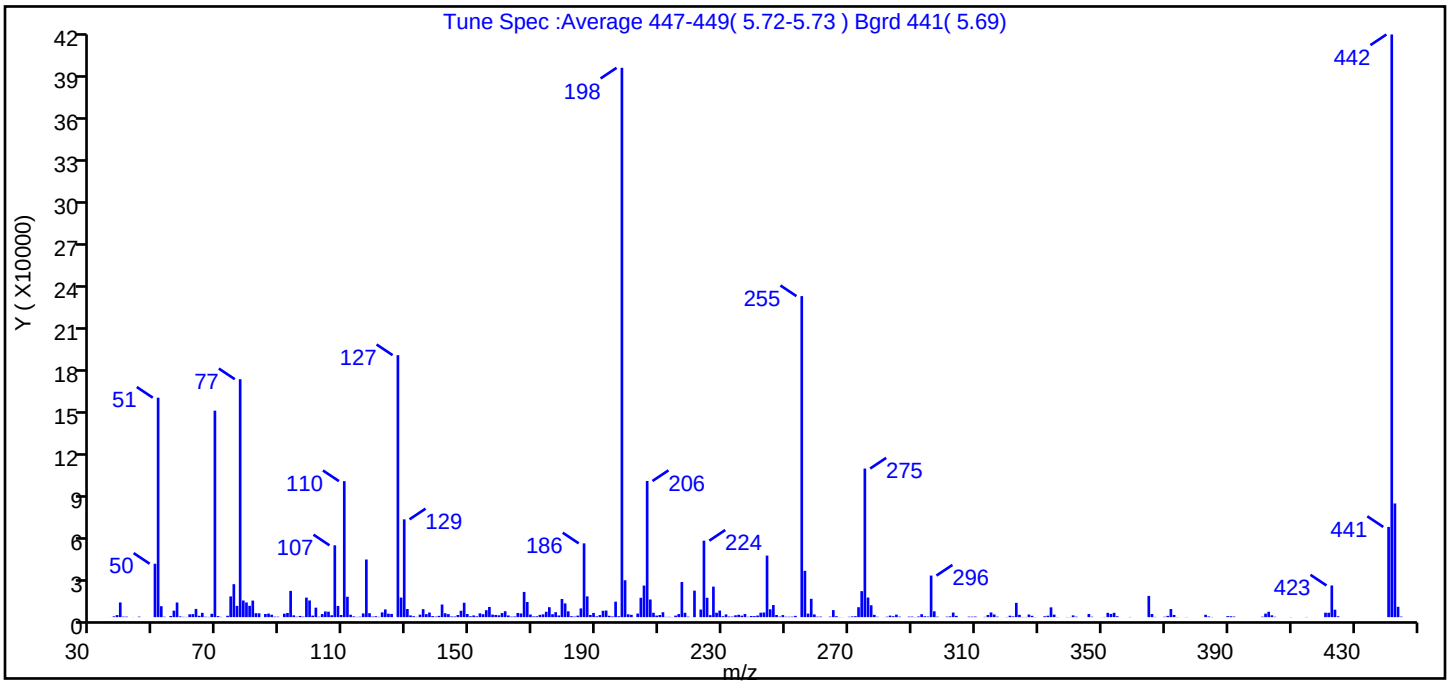
SMDFTP_CH_00025 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d
Injection Date: 25-Oct-2018 19:24:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	40.0
68	<2% of mass 69	0.6 (1.6)
69	Present	37.6
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	47.7
197	<1% of mass 198	0.2
199	5-9% of mass 198	6.7
275	10-30% of mass 198	27.1
365	>1% of mass 198	3.9
441	Present but less than mass 443	16.4 (79.3)
442	>40% of mass 198	106.1
443	17-23% of mass 442	20.7 (19.5)

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d\8270LVI_14.rslt\spectra.d
Injection Date: 25-Oct-2018 19:24:30
Spectrum: Tune Spec :Average 447-449(5.72-5.73) Bgrd 441(5.69)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	37	125.00	2298	206.00	96672	294.00	613
37.00	578	127.00	186048	207.00	12532	295.00	422
38.00	1457	128.00	13904	208.00	3103	296.00	29520
39.00	10430	129.00	69456	209.00	1114	297.00	4151
40.00	377	130.00	5783	210.00	1512	298.00	355
41.00	374	131.00	1245	211.00	3490	301.00	352
43.00	56	132.00	660	212.00	210	302.00	543
45.00	352	133.00	217	213.00	235	303.00	3235
50.00	37912	134.00	1764	214.00	103	304.00	899
51.00	155840	135.00	5661	215.00	1084	308.00	369
52.00	7767	136.00	2127	216.00	2174	309.00	338
53.00	301	137.00	3261	217.00	24952	310.00	416
55.00	837	138.00	725	218.00	3100	313.00	203
56.00	4591	139.00	383	219.00	359	314.00	1552
57.00	10414	140.00	915	221.00	18816	315.00	3341
58.00	523	141.00	8957	223.00	5384	316.00	1873
59.00	214	142.00	2757	224.00	54296	317.00	364
60.00	160	143.00	2130	225.00	13752	320.00	119
61.00	2011	144.00	491	226.00	1403	321.00	1008
62.00	2155	145.00	453	227.00	21672	322.00	520
63.00	5839	146.00	1513	228.00	3124	323.00	10132
64.00	963	147.00	4554	229.00	4662	324.00	1655
65.00	3051	148.00	10212	230.00	641	325.00	137
66.00	299	149.00	2204	231.00	1920	326.00	140
67.00	174	150.00	630	232.00	457	327.00	1867
68.00	2390	151.00	1195	233.00	402	328.00	946
69.00	146624	152.00	591	234.00	1295	329.00	113
70.00	740	153.00	2707	235.00	1706	332.00	627
71.00	168	154.00	2094	236.00	1091	333.00	1012
73.00	991	155.00	4940	237.00	2259	334.00	6953
74.00	14730	156.00	7221	238.00	271	335.00	1786
75.00	23408	157.00	1801	239.00	804	336.00	121
76.00	7996	158.00	1543	240.00	743	339.00	111

Report Date: 26-Oct-2018 09:22:33 Chrom Revision: 2.3 12-Oct-2018 08:24:38
Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d\8270LVI_14.rslt\spectra.d
Injection Date: 25-Oct-2018 19:24:30
Spectrum: Tune Spec :Average 447-449(5.72-5.73) Bgrd 441(5.69)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	168960	159.00	1301	241.00	1130	340.00	104
78.00	11817	160.00	2902	242.00	3159	341.00	1259
79.00	10433	161.00	4203	243.00	3306	342.00	342
80.00	8033	162.00	1192	244.00	43704	346.00	2239
81.00	11758	163.00	381	245.00	5572	347.00	310
82.00	2788	164.00	485	246.00	8603	350.00	50
83.00	2708	165.00	2960	247.00	1517	351.00	127
85.00	2230	166.00	2625	248.00	404	352.00	3043
86.00	2545	167.00	17912	249.00	1461	353.00	2269
87.00	1702	168.00	10757	250.00	294	354.00	3085
88.00	338	169.00	1877	251.00	308	355.00	630
89.00	334	170.00	524	252.00	359	359.00	146
91.00	2459	171.00	600	253.00	909	365.00	15057
92.00	2927	172.00	1604	255.00	227968	366.00	2206
93.00	18640	173.00	1993	256.00	32880	367.00	156
94.00	1281	174.00	3819	257.00	2514	370.00	277
95.00	314	175.00	7065	258.00	13016	371.00	904
96.00	879	176.00	2092	259.00	1917	372.00	5769
97.00	347	177.00	3523	260.00	340	373.00	1545
98.00	13877	178.00	1195	261.00	389	374.00	118
99.00	11851	179.00	12877	264.00	364	377.00	110
100.00	1083	180.00	9752	265.00	4991	383.00	1674
101.00	6732	181.00	4125	266.00	657	384.00	499
102.00	298	182.00	666	267.00	111	385.00	139
103.00	2185	183.00	410	268.00	66	390.00	711
104.00	4046	184.00	1084	270.00	249	391.00	635
105.00	3854	185.00	6201	271.00	493	392.00	427
106.00	1342	186.00	52392	272.00	671	401.00	339
107.00	51000	187.00	14730	273.00	7060	402.00	2498
108.00	7958	188.00	1541	274.00	18472	403.00	3813
109.00	1526	189.00	3001	275.00	105528	404.00	1299
110.00	96584	190.00	572	276.00	13930	405.00	267
111.00	14481	191.00	1450	277.00	8434	410.00	107
112.00	1718	192.00	4503	278.00	1611	415.00	126

Report Date: 26-Oct-2018 09:22:33 Chrom Revision: 2.3 12-Oct-2018 08:24:38
Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d\8270LVI_14.rslt\spectra.d
Injection Date: 25-Oct-2018 19:24:30
Spectrum: Tune Spec :Average 447-449(5.72-5.73) Bgrd 441(5.69)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 314

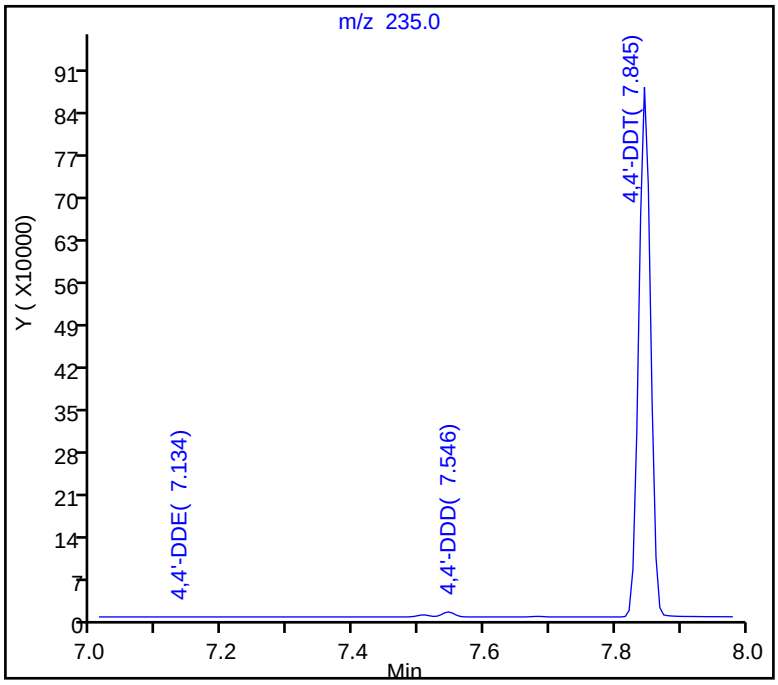
m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	540	193.00	4686	279.00	292	421.00	3152
114.00	201	194.00	959	281.00	50	422.00	3107
115.00	323	195.00	497	282.00	321	423.00	22488
116.00	2628	196.00	10998	283.00	1087	424.00	5285
117.00	40936	197.00	621	284.00	668	425.00	589
118.00	2805	198.00	390080	285.00	1757	441.00	64048
119.00	401	199.00	26176	286.00	366	442.00	413760
120.00	665	200.00	2026	289.00	375	443.00	80720
121.00	228	201.00	1635	290.00	386	444.00	7334
122.00	3373	203.00	2553	291.00	108	445.00	379
123.00	5483	204.00	13753	292.00	468		
124.00	2443	205.00	22440	293.00	2084		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d
Injection Date: 25-Oct-2018 19:24:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL

127 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 1105707
126 4,4'-DDD, Area = 11114
125 4,4'-DDE, Area = 2185

%Breakdown: 1.19%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

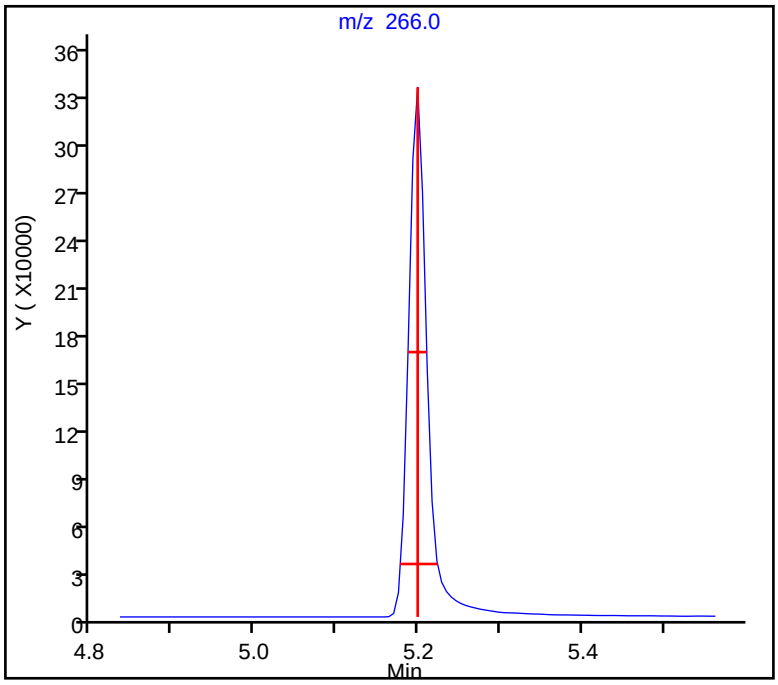
Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d
Injection Date: 25-Oct-2018 19:24:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL

31 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

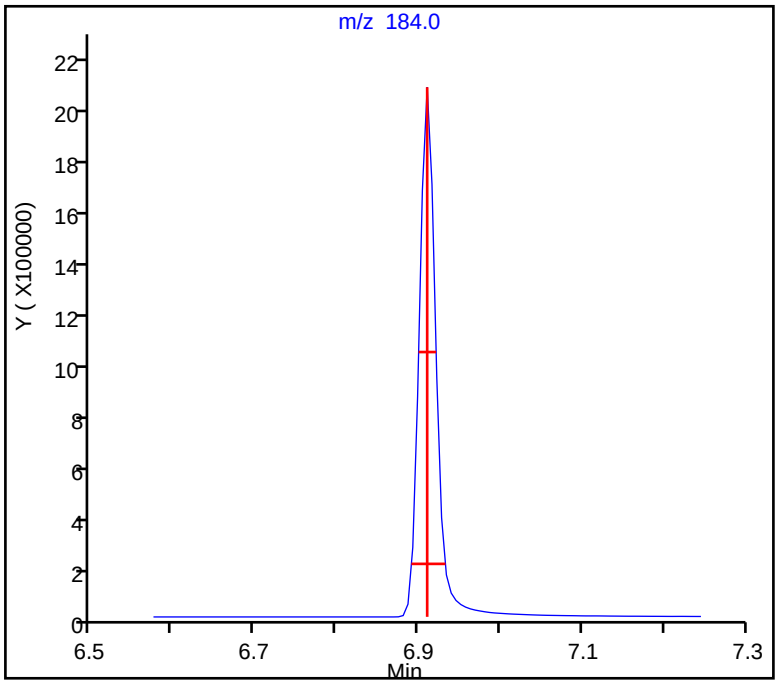
Data File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178590.d
Injection Date: 25-Oct-2018 19:24:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL

56 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 11-Dec-2018 06:49:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083349-001
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 11-Dec-2018 10:43:04 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: nimerd Date: 11-Dec-2018 07:04:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Pentachlorophenol_T	266	4.952	4.952	0.000	88	160333	NR	NR	
56 Benzidine_T	184	6.675	6.675	0.000	98	1009298	NR	NR	
124 DFTPP									
125 4,4'-DDE	246	6.899	6.899	0.000	74	654		NR	
126 4,4'-DDD	235	7.310	7.310	0.000	91	5113		NR	
127 4,4'-DDT	235	7.610	7.610	0.000	96	482510	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

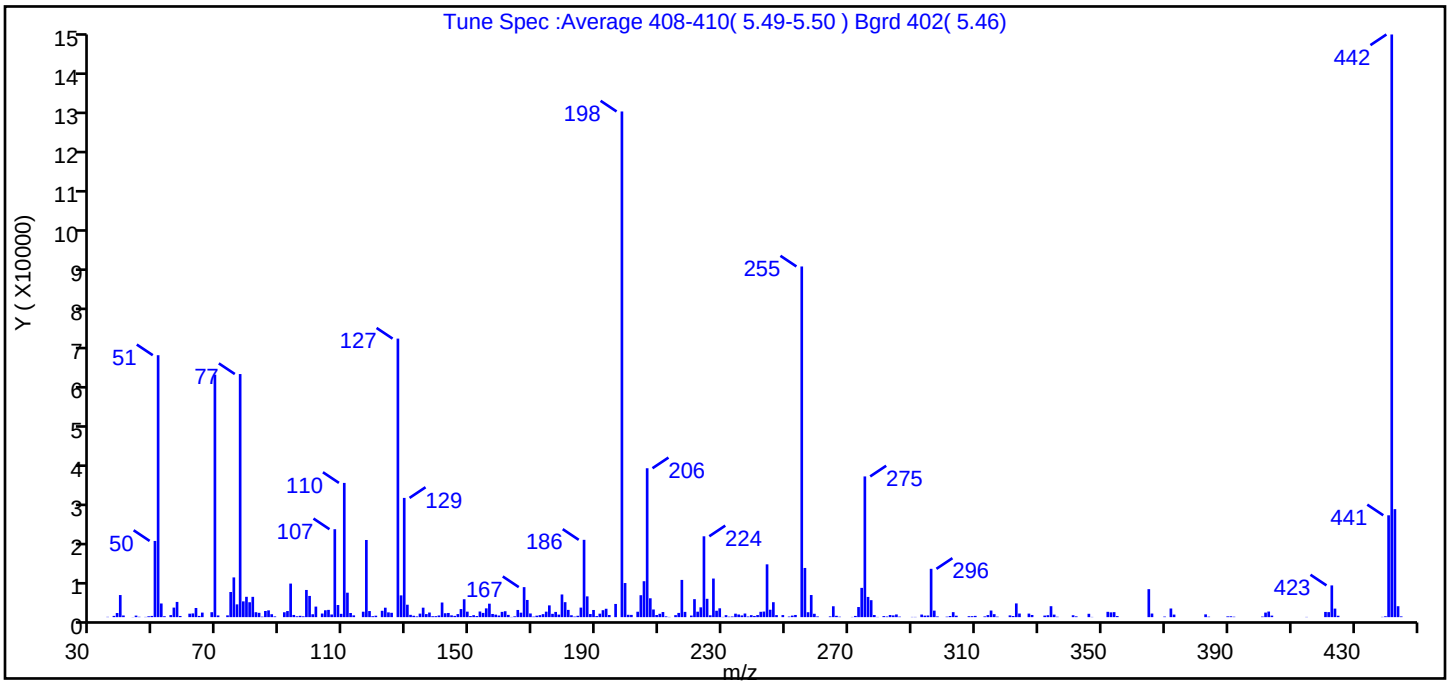
SMDFTP_CH_00026 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d
Injection Date: 11-Dec-2018 06:49:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	51.8
68	<2% of mass 69	1.0 (2.0)
69	Present	47.9
70	<2% of mass 69	0.3 (0.7)
127	40-60% of mass 198	55.1
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-30% of mass 198	27.8
365	>1% of mass 198	5.5
441	Present but less than mass 443	20.1 (94.3)
442	>40% of mass 198	115.2
443	17-23% of mass 442	21.4 (18.5)

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d\8270LVI_14.rslt\spectra.d
Injection Date: 11-Dec-2018 06:49:30
Spectrum: Tune Spec :Average 408-410(5.49-5.50) Bgrd 402(5.46)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 285

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	71	124.00	1162	199.00	8331	284.00	426
37.00	307	125.00	1060	200.00	570	285.00	656
38.00	1007	127.00	68040	201.00	547	286.00	130
39.00	5397	128.00	5316	203.00	1321	290.00	55
40.00	403	129.00	29128	204.00	5356	291.00	56
43.00	31	130.00	3035	205.00	8777	293.00	632
44.00	376	131.00	561	206.00	36376	294.00	369
45.00	86	132.00	338	207.00	4608	295.00	404
47.00	58	133.00	178	208.00	1872	296.00	11806
48.00	210	134.00	857	209.00	521	297.00	1592
49.00	301	135.00	2314	210.00	819	298.00	172
50.00	18616	136.00	745	211.00	1253	301.00	113
51.00	63984	137.00	1128	212.00	186	302.00	279
52.00	3339	138.00	228	213.00	53	303.00	1222
53.00	223	139.00	242	215.00	485	304.00	347
55.00	502	140.00	407	216.00	1033	308.00	233
56.00	2332	141.00	3575	217.00	9095	309.00	238
57.00	3718	142.00	953	218.00	1287	310.00	310
58.00	287	143.00	1019	220.00	386	313.00	181
61.00	844	144.00	441	221.00	4395	314.00	504
62.00	914	145.00	308	222.00	1333	315.00	1613
63.00	2238	146.00	746	223.00	2395	316.00	727
64.00	301	147.00	1970	224.00	19752	317.00	126
65.00	1110	148.00	4371	225.00	4482	321.00	428
68.00	1206	149.00	1343	226.00	454	322.00	276
69.00	59224	150.00	273	227.00	9429	323.00	3355
70.00	414	151.00	478	228.00	1565	324.00	881
73.00	437	152.00	267	229.00	2161	327.00	864
74.00	6139	153.00	1378	230.00	55	328.00	526
75.00	9705	154.00	1032	231.00	484	332.00	381
76.00	3122	155.00	2146	232.00	112	333.00	475
77.00	59384	156.00	3289	233.00	164	334.00	2673
78.00	3853	157.00	774	234.00	848	335.00	614

Report Date: 11-Dec-2018 10:43:05 Chrom Revision: 2.3 21-Nov-2018 13:56:44
Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d\8270LVI_14.rslt\spectra.d
Injection Date: 11-Dec-2018 06:49:30
Spectrum: Tune Spec :Average 408-410(5.49-5.50) Bgrd 402(5.46)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 285

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	4967	158.00	617	235.00	645	336.00	102
80.00	3638	159.00	394	236.00	418	341.00	465
81.00	4958	160.00	1288	237.00	885	342.00	191
82.00	1203	161.00	1444	238.00	158	346.00	821
83.00	1055	162.00	549	239.00	486	347.00	53
84.00	122	163.00	51	240.00	292	352.00	1301
85.00	1501	164.00	202	241.00	512	353.00	1170
86.00	1658	165.00	1755	242.00	1305	354.00	1224
87.00	715	166.00	1089	243.00	1365	355.00	260
88.00	182	167.00	7331	244.00	12900	365.00	6835
91.00	1192	168.00	4196	245.00	1810	366.00	883
92.00	1490	169.00	900	246.00	3650	370.00	143
93.00	8199	170.00	128	247.00	498	372.00	2114
94.00	535	171.00	358	249.00	504	373.00	622
95.00	208	172.00	490	251.00	145	383.00	678
96.00	328	173.00	734	252.00	380	384.00	118
97.00	196	174.00	1339	253.00	533	390.00	191
98.00	6640	175.00	2875	255.00	85664	391.00	209
99.00	5182	176.00	807	256.00	12016	392.00	106
100.00	708	177.00	1277	257.00	1200	401.00	143
101.00	2576	178.00	617	258.00	5404	402.00	1112
103.00	883	179.00	5539	259.00	822	403.00	1370
104.00	1677	180.00	3658	260.00	172	404.00	373
105.00	1775	181.00	1773	264.00	182	415.00	54
106.00	645	182.00	460	265.00	2659	421.00	1273
107.00	21480	183.00	138	266.00	323	422.00	1227
108.00	2963	184.00	335	267.00	104	423.00	7754
109.00	809	185.00	2329	271.00	52	424.00	2087
110.00	32792	186.00	18888	272.00	295	425.00	341
111.00	5975	187.00	5073	273.00	2470	439.00	65
112.00	1014	188.00	760	274.00	7151	440.00	210
113.00	434	189.00	1751	275.00	34376	441.00	24880
116.00	1331	190.00	254	276.00	4935	442.00	142336
117.00	18848	191.00	844	277.00	4145	443.00	26384

Report Date: 11-Dec-2018 10:43:05 Chrom Revision: 2.3 21-Nov-2018 13:56:44
Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d\8270LVI_14.rslt\spectra.d
Injection Date: 11-Dec-2018 06:49:30
Spectrum: Tune Spec :Average 408-410(5.49-5.50) Bgrd 402(5.46)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 285

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1487	192.00	1699	278.00	514	444.00	2669
119.00	233	193.00	2047	279.00	54	445.00	177
120.00	354	194.00	519	281.00	253		
122.00	1553	196.00	3223	282.00	153		
123.00	2307	198.00	123528	283.00	525		

Breakdown Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d
Injection Date: 11-Dec-2018 06:49:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL

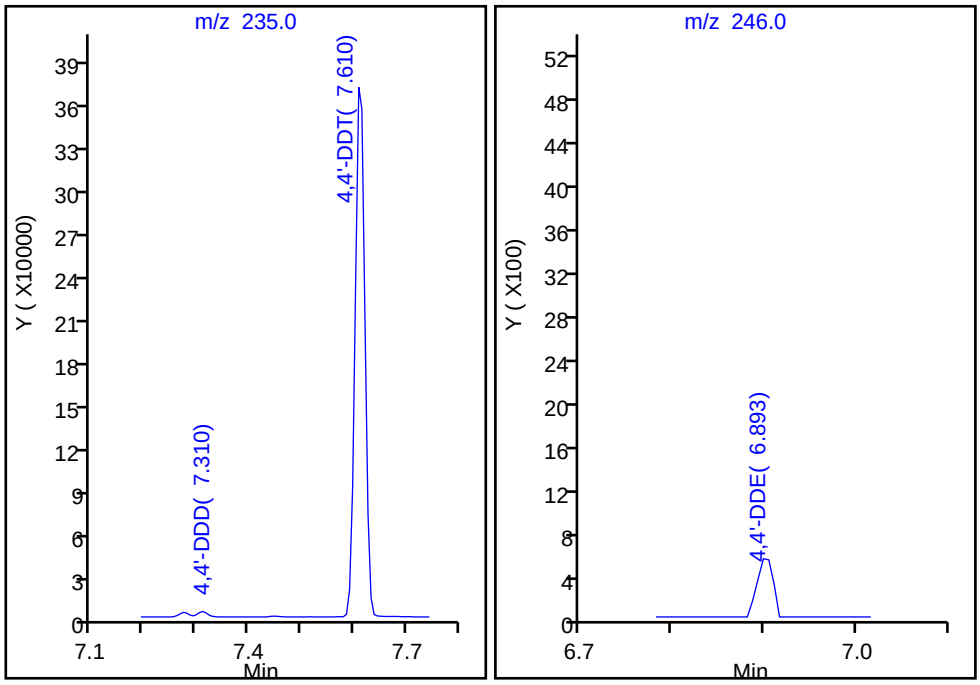
127 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 482510
126 4,4'-DDD, Area = 5113
125 4,4'-DDE, Area = 654

%Breakdown: 1.18%, <= 20.00%
Passed



Peak Tailing Report

TestAmerica Edison

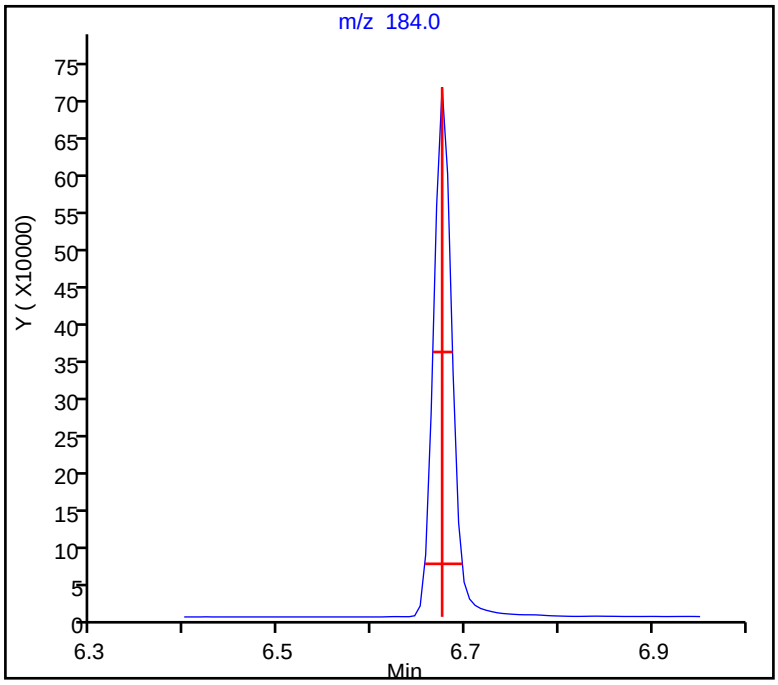
Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d
Injection Date: 11-Dec-2018 06:49:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL

56 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

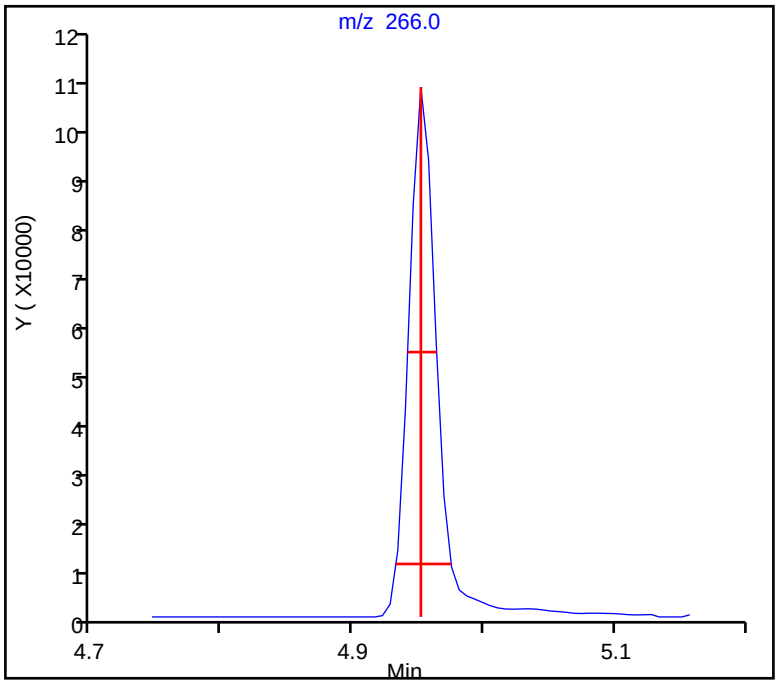
Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179698a.d
Injection Date: 11-Dec-2018 06:49:30 Instrument ID: CBNAMS14
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 8270LVI_14 Limit Group: SV 8270D ICAL

31 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: MB 460-574537/1-A

Matrix: Water | Lab File ID: N179701.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 08:25

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	10	1.2
108-60-1	2,2'-oxybis[1-chloropropane]	0.63	U	10	0.63
121-14-2	2,4-Dinitrotoluene	1.0	U	2.0	1.0
606-20-2	2,6-Dinitrotoluene	0.39	U	2.0	0.39
91-58-7	2-Chloronaphthalene	1.2	U	10	1.2
91-57-6	2-Methylnaphthalene	1.1	U	10	1.1
88-74-4	2-Nitroaniline	0.47	U	10	0.47
91-94-1	3,3'-Dichlorobenzidine	1.4	U	10	1.4
99-09-2	3-Nitroaniline	0.96	U	10	0.96
101-55-3	4-Bromophenyl phenyl ether	0.75	U	10	0.75
106-47-8	4-Chloroaniline	1.9	U	10	1.9
7005-72-3	4-Chlorophenyl phenyl ether	1.3	U	10	1.3
100-01-6	4-Nitroaniline	0.54	U	10	0.54
98-86-2	Acetophenone	0.79	U	10	0.79
1912-24-9	Atrazine	1.3	U	2.0	1.3
100-52-7	Benzaldehyde	0.59	U	10	0.59
111-91-1	Bis(2-chloroethoxy)methane	0.24	U	10	0.24
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	2.0	1.7
85-68-7	Butyl benzyl phthalate	0.85	U	10	0.85
105-60-2	Caprolactam	0.68	U	10	0.68
86-74-8	Carbazole	0.68	U	10	0.68
132-64-9	Dibenzofuran	1.1	U	10	1.1
84-66-2	Diethyl phthalate	0.98	U	10	0.98
131-11-3	Dimethyl phthalate	0.77	U	10	0.77
84-74-2	Di-n-butyl phthalate	0.84	U	10	0.84
117-84-0	Di-n-octyl phthalate	4.8	U	10	4.8
118-74-1	Hexachlorobenzene	0.40	U	1.0	0.40
87-68-3	Hexachlorobutadiene	0.78	U	1.0	0.78
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
67-72-1	Hexachloroethane	1.2	U	2.0	1.2
78-59-1	Isophorone	0.80	U	10	0.80
98-95-3	Nitrobenzene	0.57	U	1.0	0.57
621-64-7	N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43
86-30-6	N-Nitrosodiphenylamine	0.89	U	10	0.89

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: MB 460-574537/1-A

Matrix: Water | Lab File ID: N179701.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 08:25

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	85		30-130
4165-60-0	Nitrobenzene-d5	101		30-130
1718-51-0	Terphenyl-d14	88		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: MB 460-574537/1-A

Matrix: Water | Lab File ID: N179701.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 08:25

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179701.D
Lims ID: MB 460-574537/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-Dec-2018 08:25:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-00832349-004
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 11-Dec-2018 10:43:18 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: nimerd Date: 11-Dec-2018 10:41:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 4 2-Fluorophenol	112	2.987	2.987	0.000	89	395560	10.0	2.94	
$ 6 Phenol-d5	99	3.881	3.881	0.000	96	287636	10.0	1.85	
* 14 1,4-Dichlorobenzene-d4	152	4.222	4.228	-0.006	98	723110	8.00	8.00	
$ 27 Nitrobenzene-d5	82	4.757	4.757	0.000	96	1351751	10.0	10.1	
* 38 Naphthalene-d8	136	5.445	5.446	-0.001	100	2866215	8.00	8.00	
$ 51 2-Fluorobiphenyl	172	6.475	6.481	-0.006	97	2351155	10.0	8.49	
* 64 Acenaphthene-d10	164	7.110	7.116	-0.006	98	1333006	8.00	8.00	
$ 80 2,4,6-Tribromophenol	330	7.857	7.863	-0.006	94	363092	10.0	8.76	
71 2-Naphthylamine	143	8.510	8.438	0.065	41	1205		NC	
* 87 Phenanthrene-d10	188	8.510	8.516	-0.006	98	2449150	8.00	8.00	
$ 96 Terphenyl-d14	244	10.033	10.033	0.000	98	2341034	10.0	8.78	
* 102 Chrysene-d12	240	11.104	11.104	0.000	99	1864787	8.00	8.00	
* 109 Perylene-d12	264	12.915	12.916	-0.001	99	1808610	8.00	8.00	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

SM_ISTD_LVI_00178 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 11-Dec-2018 10:43:21 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179701.D

Injection Date: 11-Dec-2018 08:25:30 Instrument ID: CBNAMS14 Operator ID:

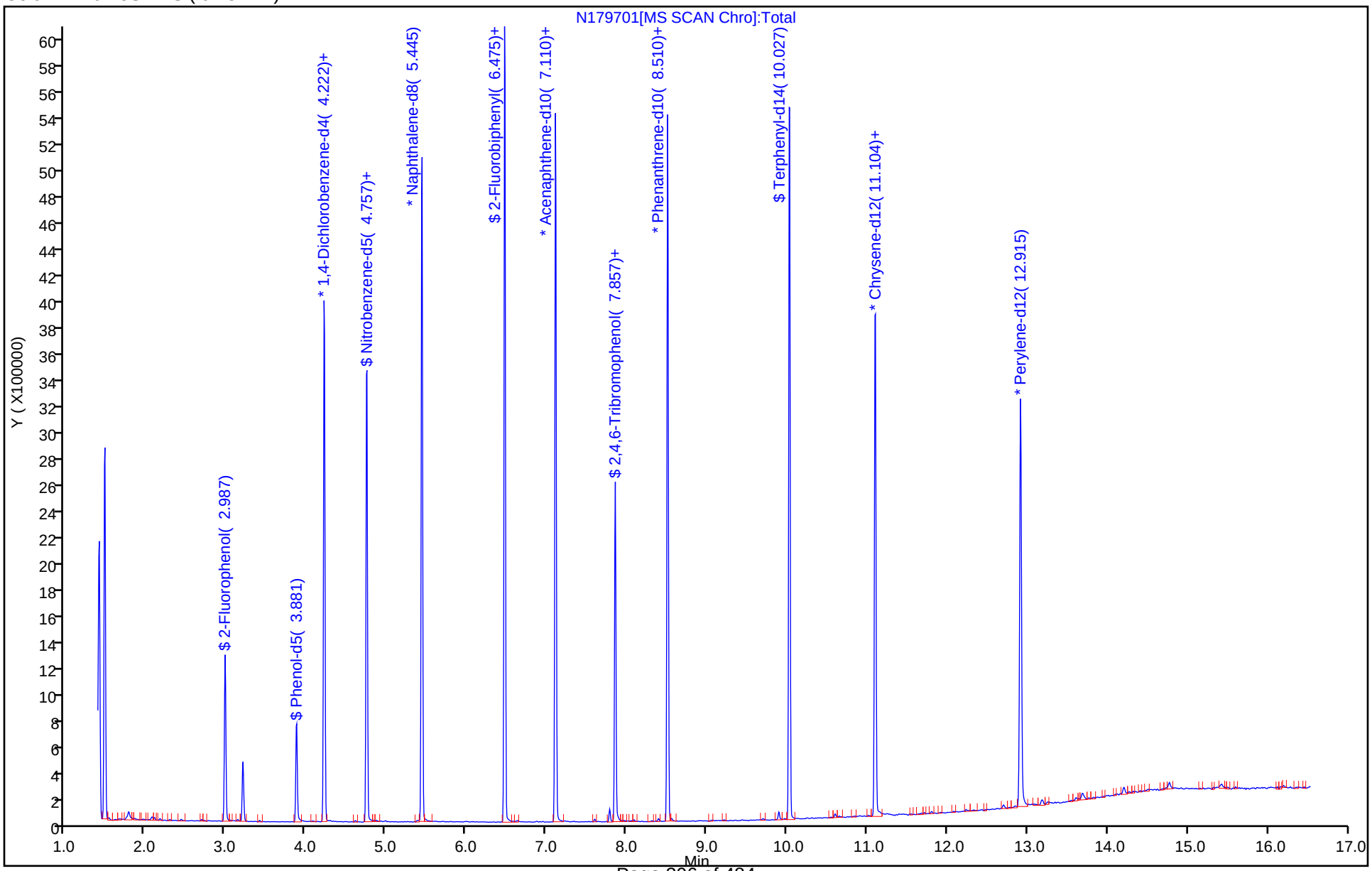
Lims ID: MB 460-574537/1-A Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8270LVI_14 Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCS 460-574537/2-A

Matrix: Water | Lab File ID: N179702.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 08:46

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-94-3	1,2,4,5-Tetrachlorobenzene	57.8		10	1.2
108-60-1	2,2'-oxybis[1-chloropropane]	87.2		10	0.63
121-14-2	2,4-Dinitrotoluene	92.2		2.0	1.0
606-20-2	2,6-Dinitrotoluene	87.2		2.0	0.39
91-58-7	2-Chloronaphthalene	65.3		10	1.2
91-57-6	2-Methylnaphthalene	67.4		10	1.1
88-74-4	2-Nitroaniline	101		10	0.47
91-94-1	3,3'-Dichlorobenzidine	79.6		10	1.4
99-09-2	3-Nitroaniline	77.6		10	0.96
101-55-3	4-Bromophenyl phenyl ether	74.3		10	0.75
106-47-8	4-Chloroaniline	74.9		10	1.9
7005-72-3	4-Chlorophenyl phenyl ether	81.4		10	1.3
100-01-6	4-Nitroaniline	90.4		10	0.54
98-86-2	Acetophenone	93.1		10	0.79
111-91-1	Bis(2-chloroethoxy)methane	75.3		10	0.24
117-81-7	Bis(2-ethylhexyl) phthalate	97.4		2.0	1.7
85-68-7	Butyl benzyl phthalate	103		10	0.85
86-74-8	Carbazole	90.1		10	0.68
132-64-9	Dibenzofuran	78.0		10	1.1
84-66-2	Diethyl phthalate	97.3		10	0.98
131-11-3	Dimethyl phthalate	88.3		10	0.77
84-74-2	Di-n-butyl phthalate	103		10	0.84
117-84-0	Di-n-octyl phthalate	118		10	4.8
118-74-1	Hexachlorobenzene	73.6		1.0	0.40
87-68-3	Hexachlorobutadiene	59.9		1.0	0.78
77-47-4	Hexachlorocyclopentadiene	59.4		10	1.7
67-72-1	Hexachloroethane	64.7		2.0	1.2
78-59-1	Isophorone	74.2		10	0.80
98-95-3	Nitrobenzene	86.0		1.0	0.57
621-64-7	N-Nitrosodi-n-propylamine	92.6		1.0	0.43
86-30-6	N-Nitrosodiphenylamine	80.8		10	0.89

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCS 460-574537/2-A

Matrix: Water | Lab File ID: N179702.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 08:46

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	93		30-130
4165-60-0	Nitrobenzene-d5	106		30-130
1718-51-0	Terphenyl-d14	80		30-130

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179702.d
Lims ID: LCS 460-574537/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Dec-2018 08:46:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-00832349-005
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 11-Dec-2018 10:43:18 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: nimerd Date: 11-Dec-2018 09:30:45

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.675	1.663	0.012	95	184860	10.0	3.61	
	2 N-Nitrosodimethylamine	74	1.887	1.875	0.012	64	276697	10.0	3.57	
	3 Pyridine	79	1.928	1.910	0.018	75	884445	20.0	6.84	
$	4 2-Fluorophenol	112	2.993	2.987	0.006	89	451440	10.0	3.24	
$	6 Phenol-d5	99	3.881	3.881	0.000	95	324131	10.0	2.01	
	7 Phenol	94	3.893	3.893	-0.001	99	439819	10.0	2.70	
	8 Aniline	93	3.910	3.910	0.000	97	1196724	10.0	5.96	
	9 Bis(2-chloroethyl)ether	93	3.969	3.969	0.000	96	1150706	10.0	8.50	
	10 Benzonitrile	103	3.987	3.987	0.000	98	2258889	NC	NC	
	11 2-Chlorophenol	128	4.028	4.028	0.000	91	1035219	10.0	7.59	
	12 n-Decane	43	4.075	4.075	0.000	91	1130710	10.0	8.05	
	13 1,3-Dichlorobenzene	146	4.175	4.175	0.000	91	1115754	10.0	7.50	
*	14 1,4-Dichlorobenzene-d4	152	4.228	4.228	0.000	97	750123	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.240	4.240	0.000	90	1136530	10.0	7.69	
	16 Benzyl alcohol	108	4.363	4.363	0.000	87	466439	10.0	5.99	
	17 1,2-Dichlorobenzene	146	4.392	4.393	-0.001	91	1102842	10.0	7.88	
	18 2-Methylphenol	108	4.475	4.475	0.000	88	760582	10.0	6.57	
	19 2,2'-oxybis[1-chloropropan	45	4.487	4.487	0.000	88	1818758	10.0	10.9	
	20 N-Methylaniline	106	4.604	4.604	0.000	89	1823518	10.0	10.1	
	21 Acetophenone	105	4.616	4.616	0.000	87	1962390	10.0	11.6	
	22 N-Nitrosodi-n-propylamine	70	4.616	4.616	0.000	95	946784	10.0	11.6	
	23 3 & 4 Methylphenol	108	4.628	4.628	0.000	76	743103	10.0	6.22	a
	24 4-Methylphenol	108	4.628	4.628	0.000	75	743103	10.0	6.22	a
	25 Hexachloroethane	117	4.716	4.716	0.000	91	456675	10.0	8.09	
$	27 Nitrobenzene-d5	82	4.757	4.757	0.000	95	1445363	10.0	10.6	
	28 Nitrobenzene	123	4.775	4.775	0.000	85	621358	10.0	10.7	
	29 n,n'-Dimethylaniline	120	4.781	4.781	0.000	96	1968249	10.0	10.4	
	30 Isophorone	82	5.004	5.004	0.000	97	2129457	10.0	9.28	
	32 2-Nitrophenol	139	5.081	5.081	0.000	75	631601	10.0	10.7	
	33 2,4-Dimethylphenol	122	5.134	5.134	0.000	84	896662	10.0	7.92	
	34 Bis(2-chloroethoxy)methane	93	5.216	5.216	0.000	97	1418717	10.0	9.42	
	35 Benzoic acid	122	5.204	5.234	-0.030	91	163369	10.0	4.37	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
36 2,4-Dichlorophenol	162	5.316	5.316	0.000	92	977556	10.0	9.39	
37 1,2,4-Trichlorobenzene	180	5.392	5.393	-0.001	94	902310	10.0	7.23	
* 38 Naphthalene-d8	136	5.445	5.446	-0.001	100	2936197	8.00	8.00	
39 Naphthalene	128	5.463	5.463	0.000	98	3150089	10.0	8.53	
40 4-Chloroaniline	127	5.522	5.522	0.000	95	1400386	10.0	9.36	
41 Hexachlorobutadiene	225	5.592	5.593	-0.001	92	533078	10.0	7.48	
43 4-Chloro-3-methylphenol	107	5.998	5.998	0.000	95	955499	10.0	9.66	
44 2-Methylnaphthalene	142	6.122	6.128	-0.006	82	1987295	10.0	8.42	
45 1-Methylnaphthalene	142	6.216	6.222	-0.006	91	1878267	10.0	8.51	
46 Hexachlorocyclopentadiene	237	6.281	6.287	-0.006	95	546228	10.0	7.42	
47 1,2,4,5-Tetrachlorobenzene	216	6.286	6.293	-0.007	94	864363	10.0	7.22	
48 2-tertbutyl-4-methylphenol	149	6.328	6.328	0.000	86	1634299	10.0	11.4	
49 2,4,6-Trichlorophenol	196	6.398	6.404	-0.006	83	697039	10.0	9.43	
50 2,4,5-Trichlorophenol	196	6.434	6.440	-0.006	91	753315	10.0	9.34	
$ 51 2-Fluorobiphenyl	172	6.475	6.481	-0.006	97	2597581	10.0	9.31	
52 1,1'-Biphenyl	154	6.569	6.569	0.000	96	2552319	10.0	8.48	
53 2-Chloronaphthalene	162	6.586	6.587	-0.001	95	1887518	10.0	8.16	
54 Phenyl ether	170	6.669	6.675	-0.006	89	1203456	10.0	8.14	
55 2-Nitroaniline	65	6.686	6.687	-0.001	92	911655	10.0	12.6	
57 1,3-Dimethylnaphthalene	156	6.792	6.798	-0.006	89	1528724	10.0	8.19	
59 Dimethyl phthalate	163	6.863	6.869	-0.006	98	2611898	10.0	11.0	
60 Coumarin	146	6.881	6.881	0.000	74	748947	10.0	11.4	
61 2,6-Dinitrotoluene	165	6.916	6.916	0.000	89	565986	10.0	10.9	
62 Acenaphthylene	152	6.975	6.981	-0.006	97	3128731	10.0	10.1	
63 3-Nitroaniline	138	7.075	7.081	-0.006	91	524496	10.0	9.69	
* 64 Acenaphthene-d10	164	7.110	7.116	-0.006	98	1343878	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.139	7.145	-0.006	94	1852327	10.0	9.19	
66 Acenaphthene	154	7.139	7.145	-0.006	95	2053543	10.0	9.26	
67 2,4-Dinitrophenol	184	7.175	7.175	0.000	83	604411	20.0	25.3	
68 4-Nitrophenol	65	7.257	7.257	0.000	89	247151	20.0	6.52	
69 2,4-Dinitrotoluene	165	7.292	7.298	-0.006	89	752063	10.0	11.5	
70 Dibenzofuran	168	7.304	7.310	-0.006	93	2879585	10.0	9.75	
72 2,3,4,6-Tetrachlorophenol	232	7.428	7.434	-0.006	88	601884	10.0	10.4	
73 Diethyl phthalate	149	7.533	7.540	-0.007	97	2666994	10.0	12.2	
75 Fluorene	166	7.628	7.628	0.000	94	2409606	10.0	10.9	
74 4-Chlorophenyl phenyl ethe	204	7.633	7.634	-0.001	83	1144070	10.0	10.2	
76 4-Nitroaniline	138	7.651	7.657	-0.006	90	576633	10.0	11.3	
77 4,6-Dinitro-2-methylphenol	198	7.681	7.687	-0.007	73	732328	20.0	22.8	
78 N-Nitrosodiphenylamine	169	7.745	7.745	0.000	98	1764229	10.0	10.1	
79 1,2-Diphenylhydrazine	77	7.780	7.781	-0.001	99	2575274	10.0	10.6	
$ 80 2,4,6-Tribromophenol	330	7.857	7.863	-0.006	93	418330	10.0	10.0	
81 4-Bromophenyl phenyl ether	248	8.092	8.092	0.000	81	684675	10.0	9.29	
82 Hexachlorobenzene	284	8.151	8.157	-0.006	98	806332	10.0	9.20	
84 Pentachlorophenol	266	8.339	8.345	-0.006	90	899484	20.0	20.2	
85 Pentachloronitrobenzene	237	8.351	8.357	-0.006	86	371877	10.0	11.8	
86 n-Octadecane	57	8.428	8.434	-0.006	97	1766268	10.0	11.7	
* 87 Phenanthrene-d10	188	8.510	8.516	-0.006	98	2328042	8.00	8.00	
88 Phenanthrene	178	8.533	8.534	-0.001	97	3519595	10.0	10.7	
89 Anthracene	178	8.580	8.581	-0.001	99	3594118	10.0	10.7	
90 Carbazole	167	8.739	8.739	0.000	97	3140515	10.0	11.3	
91 Di-n-butyl phthalate	149	9.080	9.086	-0.006	99	3978257	10.0	12.9	
92 Fluoranthene	202	9.657	9.663	-0.006	98	3610863	10.0	11.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Benzidine	184	9.792	9.792	0.000	99	1829830	10.0	12.7	
94 Pyrene	202	9.869	9.875	-0.006	98	3718688	10.0	10.3	
95 Bisphenol-A	213	9.951	9.951	0.000	97	532918	5.00	5.56	
$ 96 Terphenyl-d14	244	10.027	10.033	-0.006	98	2322502	10.0	8.04	
97 Butyl benzyl phthalate	149	10.516	10.522	-0.006	98	1566644	10.0	12.9	
99 Carbamazepine	193	10.621	10.628	-0.007	91	1383609	10.0	10.8	
100 3,3'-Dichlorobenzidine	252	11.074	11.080	-0.006	99	1217185	10.0	9.95	
101 Benzo[a]anthracene	228	11.086	11.092	-0.006	98	3290952	10.0	10.9	
* 102 Chrysene-d12	240	11.098	11.104	-0.006	99	2020939	8.00	8.00	
104 Chrysene	228	11.127	11.133	-0.006	98	3165294	10.0	10.9	
103 Bis(2-ethylhexyl) phthalat	149	11.157	11.163	-0.006	88	2133644	10.0	12.2	
105 Di-n-octyl phthalate	149	11.951	11.957	-0.006	97	3544722	10.0	14.8	
106 Benzo[b]fluoranthene	252	12.404	12.410	-0.006	98	3416652	10.0	11.9	
107 Benzo[k]fluoranthene	252	12.439	12.445	-0.006	99	3463952	10.0	10.7	
108 Benzo[a]pyrene	252	12.833	12.839	-0.006	98	3176270	10.0	11.3	
* 109 Perylene-d12	264	12.910	12.916	-0.006	99	2058656	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.398	14.404	-0.006	98	3389724	10.0	12.2	
111 Dibenz(a,h)anthracene	278	14.439	14.445	-0.006	98	3433272	10.0	11.5	
112 Benzo[g,h,i]perylene	276	14.798	14.804	-0.006	98	3568328	10.0	10.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SM_ISTD_LVI_00178 Amount Added: 20.00 Units: uL Run Reagent

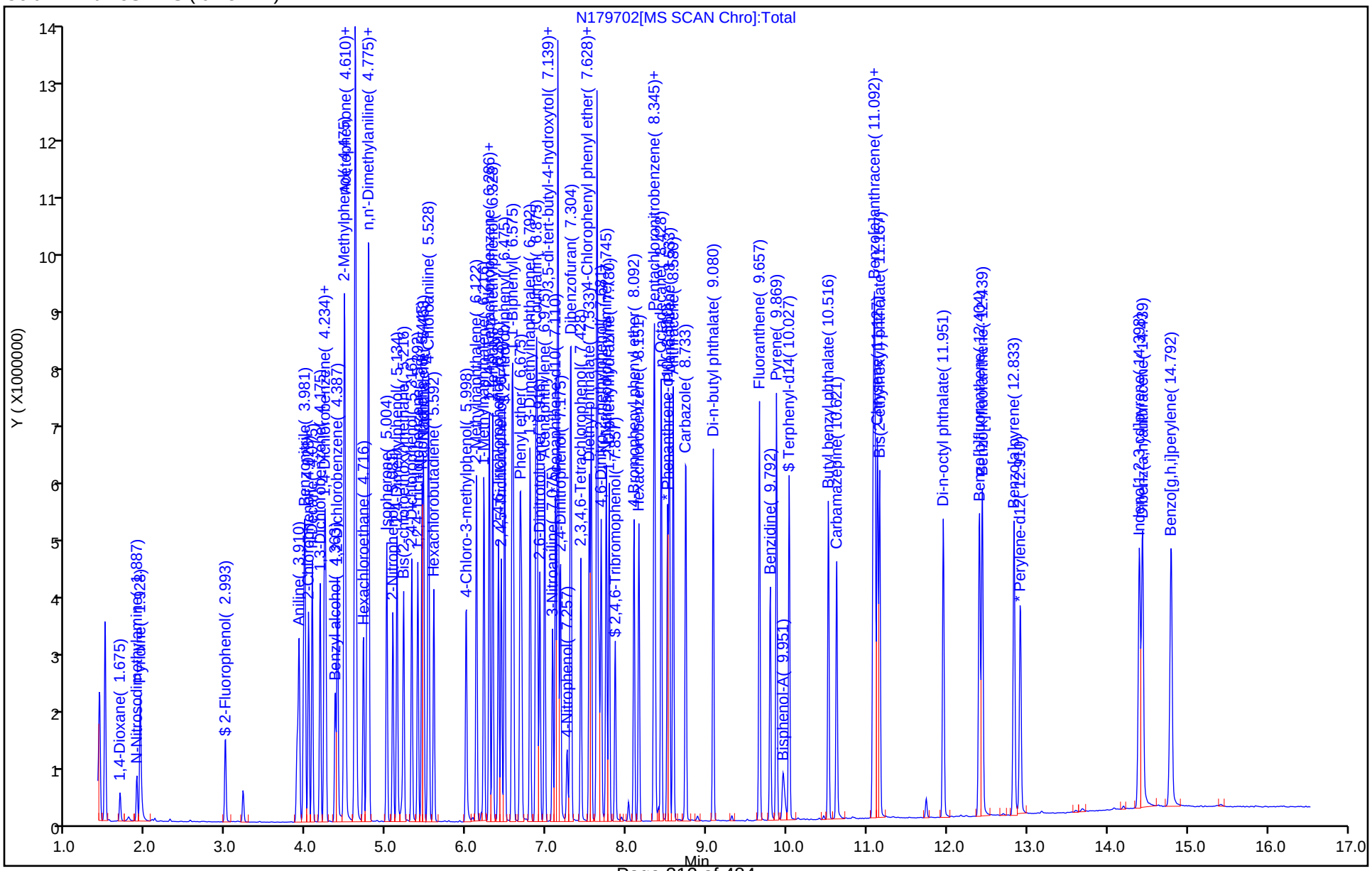
Report Date: 11-Dec-2018 10:43:24 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179702.d

Injection Date:	11-Dec-2018 08:46:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	LCS 460-574537/2-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCSD 460-574537/3-A

Matrix: Water | Lab File ID: N179703.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 09:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-94-3	1,2,4,5-Tetrachlorobenzene	68.6		10	1.2
108-60-1	2,2'-oxybis[1-chloropropane]	91.7		10	0.63
121-14-2	2,4-Dinitrotoluene	100		2.0	1.0
606-20-2	2,6-Dinitrotoluene	93.4		2.0	0.39
91-58-7	2-Chloronaphthalene	74.9		10	1.2
91-57-6	2-Methylnaphthalene	71.2		10	1.1
88-74-4	2-Nitroaniline	49.8		10	0.47
91-94-1	3,3'-Dichlorobenzidine	1.41	J	10	1.4
99-09-2	3-Nitroaniline	0.96	U	10	0.96
101-55-3	4-Bromophenyl phenyl ether	80.7		10	0.75
106-47-8	4-Chloroaniline	1.9	U	10	1.9
7005-72-3	4-Chlorophenyl phenyl ether	88.7		10	1.3
100-01-6	4-Nitroaniline	0.54	U	10	0.54
98-86-2	Acetophenone	93.3		10	0.79
111-91-1	Bis(2-chloroethoxy)methane	75.8		10	0.24
117-81-7	Bis(2-ethylhexyl) phthalate	103		2.0	1.7
85-68-7	Butyl benzyl phthalate	107		10	0.85
86-74-8	Carbazole	91.2		10	0.68
132-64-9	Dibenzofuran	87.1		10	1.1
84-66-2	Diethyl phthalate	103		10	0.98
131-11-3	Dimethyl phthalate	96.2		10	0.77
84-74-2	Di-n-butyl phthalate	107		10	0.84
117-84-0	Di-n-octyl phthalate	127		10	4.8
118-74-1	Hexachlorobenzene	80.6		1.0	0.40
87-68-3	Hexachlorobutadiene	59.3		1.0	0.78
77-47-4	Hexachlorocyclopentadiene	65.0		10	1.7
67-72-1	Hexachloroethane	61.5		2.0	1.2
78-59-1	Isophorone	79.5		10	0.80
98-95-3	Nitrobenzene	85.5		1.0	0.57
621-64-7	N-Nitrosodi-n-propylamine	90.4		1.0	0.43
86-30-6	N-Nitrosodiphenylamine	40.1		10	0.89

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCSD 460-574537/3-A

Matrix: Water | Lab File ID: N179703.d

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/11/2018 09:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574741 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	103		30-130
4165-60-0	Nitrobenzene-d5	113		30-130
1718-51-0	Terphenyl-d14	87		30-130

Report Date: 11-Dec-2018 10:43:27 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179703.d
Lims ID: LCSD 460-574537/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-Dec-2018 09:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083349-006
Operator ID: Instrument ID: CBNAMS14

Method: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\8270LVI_14.m
Limit Group: SV 8270D ICAL
Last Update: 11-Dec-2018 10:43:18 Calib Date: 26-Oct-2018 00:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS14\20181025-80887.b\N178605.d

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: nimerd Date: 11-Dec-2018 10:42:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.681	1.663	0.018	94	244796	10.0	4.40	
	2 N-Nitrosodimethylamine	74	1.893	1.875	0.018	63	212457	10.0	2.52	
$	4 2-Fluorophenol	112	2.993	2.987	0.006	89	613887	10.0	4.05	
$	6 Phenol-d5	99	3.881	3.881	0.000	96	451932	10.0	2.57	
	7 Phenol	94	3.893	3.893	-0.001	92	499326	10.0	2.82	
	8 Aniline	93	3.898	3.910	-0.012	73	18326	10.0	0.0839	
	9 Bis(2-chloroethyl)ether	93	3.969	3.969	0.000	97	1255636	10.0	8.53	
	10 Benzonitrile	103	3.987	3.987	0.000	98	2496533	NC	NC	
	11 2-Chlorophenol	128	4.028	4.028	0.000	91	1222130	10.0	8.24	
	12 n-Decane	43	4.075	4.075	0.000	92	1189614	10.0	7.79	
	13 1,3-Dichlorobenzene	146	4.175	4.175	0.000	91	1140763	10.0	7.06	
*	14 1,4-Dichlorobenzene-d4	152	4.228	4.228	0.000	98	815555	8.00	8.00	
	15 1,4-Dichlorobenzene	146	4.245	4.240	0.005	92	1182267	10.0	7.36	
	16 Benzyl alcohol	108	4.363	4.363	0.000	87	543309	10.0	6.42	
	17 1,2-Dichlorobenzene	146	4.392	4.393	-0.001	91	1140206	10.0	7.49	
	18 2-Methylphenol	108	4.475	4.475	0.000	82	901120	10.0	7.16	
	19 2,2'-oxybis[1-chloropropan	45	4.487	4.487	0.000	89	2080142	10.0	11.5	
	20 N-Methylaniline	106	4.610	4.604	0.006	53	190701	10.0	1.02	a
	21 Acetophenone	105	4.610	4.616	-0.006	93	2136502	10.0	11.7	
	22 N-Nitrosodi-n-propylamine	70	4.616	4.616	0.000	94	1004704	10.0	11.3	
	23 3 & 4 Methylphenol	108	4.628	4.628	0.000	76	806836	10.0	6.21	
	24 4-Methylphenol	108	4.628	4.628	0.000	94	806836	10.0	6.21	
	25 Hexachloroethane	117	4.716	4.716	0.000	92	471813	10.0	7.69	
$	27 Nitrobenzene-d5	82	4.757	4.757	0.000	96	1586275	10.0	11.3	
	28 Nitrobenzene	123	4.775	4.775	0.000	88	671928	10.0	10.7	
	29 n,n'-Dimethylaniline	120	4.781	4.781	0.000	94	184381	10.0	0.9386	
	30 Isophorone	82	5.004	5.004	0.000	97	2345561	10.0	9.94	
	32 2-Nitrophenol	139	5.081	5.081	0.000	76	706170	10.0	11.6	
	33 2,4-Dimethylphenol	122	5.134	5.134	0.000	85	1041557	10.0	8.94	
	34 Bis(2-chloroethoxy)methane	93	5.216	5.216	0.000	97	1467898	10.0	9.48	
	35 Benzoic acid	122	5.210	5.234	-0.024	91	241097	10.0	5.87	
	36 2,4-Dichlorophenol	162	5.316	5.316	0.000	92	1068182	10.0	9.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
37 1,2,4-Trichlorobenzene	180	5.392	5.393	-0.001	94	924789	10.0	7.20	
* 38 Naphthalene-d8	136	5.445	5.446	-0.001	100	3018985	8.00	8.00	
39 Naphthalene	128	5.463	5.463	0.000	98	3333929	10.0	8.78	
40 4-Chloroaniline	127	5.528	5.522	0.006	42	27118	10.0	0.1762	
41 Hexachlorobutadiene	225	5.592	5.593	-0.001	92	542937	10.0	7.41	
43 4-Chloro-3-methylphenol	107	5.998	5.998	0.000	95	1081529	10.0	10.6	
44 2-Methylnaphthalene	142	6.122	6.128	-0.006	82	2159434	10.0	8.90	
45 1-Methylnaphthalene	142	6.216	6.222	-0.006	91	2034394	10.0	8.96	
46 Hexachlorocyclopentadiene	237	6.281	6.287	-0.006	96	575602	10.0	8.12	
47 1,2,4,5-Tetrachlorobenzene	216	6.286	6.293	-0.007	95	987814	10.0	8.57	
48 2-tertbutyl-4-methylphenol	149	6.328	6.328	0.000	86	1726103	10.0	11.7	
49 2,4,6-Trichlorophenol	196	6.398	6.404	-0.006	84	756756	10.0	10.6	
50 2,4,5-Trichlorophenol	196	6.434	6.440	-0.006	91	809915	10.0	10.4	
$ 51 2-Fluorobiphenyl	172	6.475	6.481	-0.006	97	2767062	10.0	10.3	
52 1,1'-Biphenyl	154	6.569	6.569	0.000	96	2822049	10.0	9.74	
53 2-Chloronaphthalene	162	6.586	6.587	-0.001	97	2087562	10.0	9.37	
54 Phenyl ether	170	6.669	6.675	-0.006	88	1325815	10.0	9.31	
55 2-Nitroaniline	65	6.681	6.687	-0.006	92	434266	10.0	6.22	
57 1,3-Dimethylnaphthalene	156	6.792	6.798	-0.006	89	1720702	10.0	9.57	
59 Dimethyl phthalate	163	6.863	6.869	-0.006	98	2739342	10.0	12.0	
60 Coumarin	146	6.881	6.881	0.000	74	791390	10.0	11.7	
61 2,6-Dinitrotoluene	165	6.916	6.916	0.000	88	583942	10.0	11.7	
62 Acenaphthylene	152	6.975	6.981	-0.006	97	3360581	10.0	11.2	
* 64 Acenaphthene-d10	164	7.110	7.116	-0.006	98	1294237	8.00	8.00	
65 3,5-di-tert-butyl-4-hydrox	205	7.139	7.145	-0.006	92	2000175	10.0	10.3	
66 Acenaphthene	154	7.139	7.145	-0.006	95	2223165	10.0	10.4	
67 2,4-Dinitrophenol	184	7.175	7.175	0.000	84	642427	20.0	27.5	
68 4-Nitrophenol	65	7.251	7.257	-0.006	91	325847	20.0	8.93	
69 2,4-Dinitrotoluene	165	7.298	7.298	0.000	90	789575	10.0	12.6	
70 Dibenzofuran	168	7.304	7.310	-0.006	95	3096874	10.0	10.9	
72 2,3,4,6-Tetrachlorophenol	232	7.428	7.434	-0.006	89	635483	10.0	11.4	
73 Diethyl phthalate	149	7.533	7.540	-0.007	97	2717069	10.0	12.9	
75 Fluorene	166	7.628	7.628	0.000	95	2609679	10.0	12.3	
74 4-Chlorophenyl phenyl ethe	204	7.633	7.634	-0.001	80	1200403	10.0	11.1	
77 4,6-Dinitro-2-methylphenol	198	7.681	7.687	-0.007	73	750573	20.0	24.1	
78 N-Nitrosodiphenylamine	169	7.745	7.745	0.000	97	842369	10.0	5.01	
79 1,2-Diphenylhydrazine	77	7.780	7.781	-0.001	99	2583347	10.0	11.0	
$ 80 2,4,6-Tribromophenol	330	7.857	7.863	-0.006	94	428941	10.0	10.7	
81 4-Bromophenyl phenyl ether	248	8.092	8.092	0.000	81	715646	10.0	10.1	
82 Hexachlorobenzene	284	8.151	8.157	-0.006	98	849605	10.0	10.1	
84 Pentachlorophenol	266	8.339	8.345	-0.006	91	969225	20.0	22.7	
85 Pentachloronitrobenzene	237	8.351	8.357	-0.006	86	390399	10.0	12.9	
86 n-Octadecane	57	8.428	8.434	-0.006	97	1847401	10.0	12.7	
* 87 Phenanthrene-d10	188	8.510	8.516	-0.006	98	2240178	8.00	8.00	
88 Phenanthrene	178	8.533	8.534	-0.001	97	3618421	10.0	11.4	
89 Anthracene	178	8.580	8.581	-0.001	99	3693885	10.0	11.4	
90 Carbazole	167	8.739	8.739	0.000	97	3058012	10.0	11.4	
91 Di-n-butyl phthalate	149	9.080	9.086	-0.006	99	3967899	10.0	13.4	
92 Fluoranthene	202	9.657	9.663	-0.006	98	3653652	10.0	12.1	
93 Benzidine	184	9.792	9.792	0.000	57	4537	10.0	0.6536	
94 Pyrene	202	9.869	9.875	-0.006	98	3722488	10.0	10.8	
95 Bisphenol-A	213	9.951	9.951	0.000	97	573001	5.00	6.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 96 Terphenyl-d14	244	10.027	10.033	-0.006	99	2404880	10.0	8.71	
97 Butyl benzyl phthalate	149	10.516	10.522	-0.006	98	1561882	10.0	13.4	
99 Carbamazepine	193	10.616	10.628	-0.012	91	981029	10.0	8.30	
100 3,3'-Dichlorobenzidine	252	11.074	11.080	-0.006	96	13242	10.0	0.1758	
101 Benzo[a]anthracene	228	11.086	11.092	-0.006	98	3307249	10.0	11.5	
* 102 Chrysene-d12	240	11.098	11.104	-0.006	99	1931832	8.00	8.00	
104 Chrysene	228	11.127	11.133	-0.006	98	3204633	10.0	11.5	
103 Bis(2-ethylhexyl) phthalat	149	11.157	11.163	-0.006	87	2181362	10.0	12.9	
105 Di-n-octyl phthalate	149	11.951	11.957	-0.006	97	3582792	10.0	15.8	
106 Benzo[b]fluoranthene	252	12.404	12.410	-0.006	98	3507806	10.0	12.9	
107 Benzo[k]fluoranthene	252	12.439	12.445	-0.006	99	3530940	10.0	11.5	
108 Benzo[a]pyrene	252	12.833	12.839	-0.006	98	3192382	10.0	12.0	
* 109 Perylene-d12	264	12.910	12.916	-0.006	99	1941991	8.00	8.00	
110 Indeno[1,2,3-cd]pyrene	276	14.398	14.404	-0.006	98	3431607	10.0	13.0	
111 Dibenz(a,h)anthracene	278	14.439	14.445	-0.006	98	3497205	10.0	12.4	
112 Benzo[g,h,i]perylene	276	14.798	14.804	-0.006	98	3656040	10.0	11.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

SM_ISTD_LVI_00178 Amount Added: 20.00 Units: uL Run Reagent

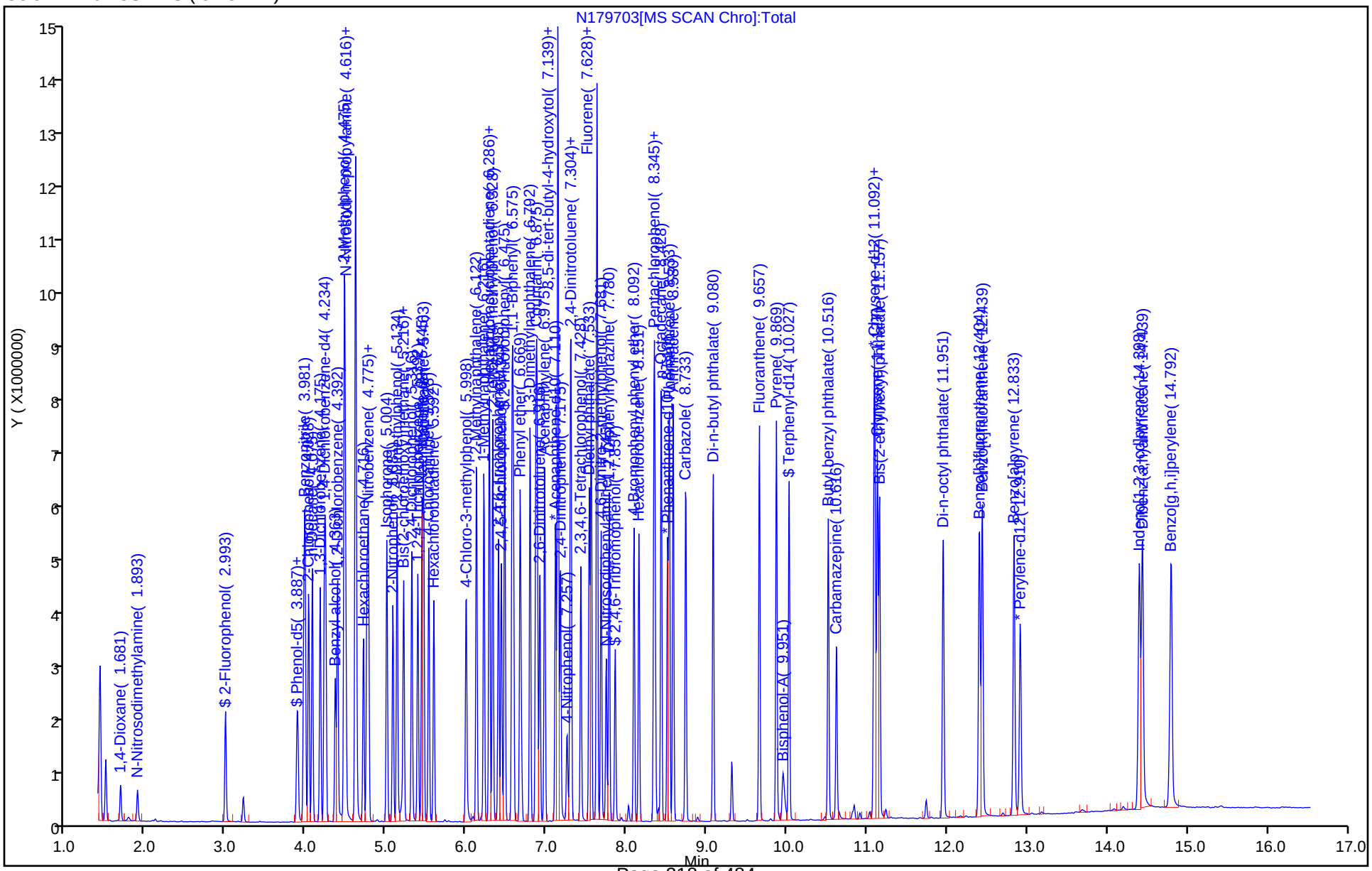
Report Date: 11-Dec-2018 10:43:27 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS14\20181211-83349.b\N179703.d

Injection Date:	11-Dec-2018 09:06:30	Instrument ID:	CBNAMS14	Operator ID:	
Lims ID:	LCSD 460-574537/3-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270LVI_14	Limit Group:	SV 8270D ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 Start Date: 10/25/2018 19:24

Analysis Batch Number: 563162 End Date: 10/26/2018 01:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-563162/1		10/25/2018 19:24	1	N178590.d	Rtxi-5Sil MS 0.25(mm)
ICIS 460-563162/2		10/25/2018 19:51	1	N178591.d	Rtxi-5Sil MS 0.25(mm)
STD24 460-563162/3 IC		10/25/2018 20:24	1	N178592.d	Rtxi-5Sil MS 0.25(mm)
STD16 460-563162/4 IC		10/25/2018 20:45	1	N178593.d	Rtxi-5Sil MS 0.25(mm)
STD4 460-563162/5 IC		10/25/2018 21:06	1	N178594.d	Rtxi-5Sil MS 0.25(mm)
STD2 460-563162/6 IC		10/25/2018 21:27	1	N178595.d	Rtxi-5Sil MS 0.25(mm)
STD1 460-563162/7 IC		10/25/2018 21:48	1	N178596.d	Rtxi-5Sil MS 0.25(mm)
STD02 460-563162/8 IC		10/25/2018 22:09	1	N178597.d	Rtxi-5Sil MS 0.25(mm)
STD01 460-563162/9 IC		10/25/2018 22:30	1	N178598.d	Rtxi-5Sil MS 0.25(mm)
STD10 460-563162/10 IC		10/25/2018 22:50	1	N178599.d	Rtxi-5Sil MS 0.25(mm)
STD24 460-563162/11 IC		10/25/2018 23:11	1	N178600.d	Rtxi-5Sil MS 0.25(mm)
STD16 460-563162/12 IC		10/25/2018 23:32	1	N178601.d	Rtxi-5Sil MS 0.25(mm)
STD4 460-563162/13 IC		10/25/2018 23:53	1	N178602.d	Rtxi-5Sil MS 0.25(mm)
STD2 460-563162/14 IC		10/26/2018 00:14	1	N178603.d	Rtxi-5Sil MS 0.25(mm)
STD1 460-563162/15 IC		10/26/2018 00:35	1	N178604.d	Rtxi-5Sil MS 0.25(mm)
STD02 460-563162/16 IC		10/26/2018 00:56	1	N178605.d	Rtxi-5Sil MS 0.25(mm)
ICV 460-563162/17		10/26/2018 01:17	1		Rtxi-5Sil MS 0.25(mm)
ICV 460-563162/18		10/26/2018 01:38	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: CBNAMS14 Start Date: 12/11/2018 06:49

Analysis Batch Number: 574741 End Date: 12/11/2018 17:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-574741/1		12/11/2018 06:49	1	N179698a.d	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-574741/2		12/11/2018 07:32	1	N179699a.d	Rtxi-5Sil MS 0.25(mm)
CCV 460-574741/3		12/11/2018 08:01	1		Rtxi-5Sil MS 0.25(mm)
MB 460-574537/1-A		12/11/2018 08:25	1	N179701.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-574537/2-A		12/11/2018 08:46	1	N179702.d	Rtxi-5Sil MS 0.25(mm)
LCSD 460-574537/3-A		12/11/2018 09:06	1	N179703.d	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 09:27	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 09:48	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 10:09	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 10:30	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 10:50	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 11:11	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 11:32	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 11:53	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 12:14	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 12:34	1		Rtxi-5Sil MS 0.25(mm)
460-170982-1		12/11/2018 12:56	1	N179714.d	Rtxi-5Sil MS 0.25(mm)
460-170982-2		12/11/2018 13:16	1	N179715.d	Rtxi-5Sil MS 0.25(mm)
460-170982-3		12/11/2018 13:37	1	N179716.d	Rtxi-5Sil MS 0.25(mm)
460-170982-4		12/11/2018 13:58	1	N179717.d	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 14:19	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 14:40	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 15:01	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 15:21	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 15:42	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 16:03	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 16:24	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 16:45	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 17:05	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/11/2018 17:26	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 574537 Batch Start Date: 12/10/18 09:58 Batch Analyst: Babu, Dhanalakshmi X

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_BNA SPIK 00028
MB 460-574537/1		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-574537/2		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	200 uL
LCSD 460-574537/3		3510C, 8270D		250 mL	2 mL	7 SU	<2 SU	>12 SU	200 uL
460-170982-F-1	9999-23-MW01-GW01-12052018	3510C, 8270D	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	
460-170982-E-2	9999-23-MW02-GW01-12052018	3510C, 8270D	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	
460-170982-E-3	9999-23-MW03-GW01-12052018	3510C, 8270D	T	250 mL	2 mL	6 SU	<2 SU	>12 SU	
460-170982-D-4	9999-23-FB-BK01-12052018	3510C, 8270D	T	250 mL	2 mL	6 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNASurroga 00015					
MB 460-574537/1		3510C, 8270D		200 uL					
LCS 460-574537/2		3510C, 8270D		200 uL					
LCSD 460-574537/3		3510C, 8270D		200 uL					
460-170982-F-1	9999-23-MW01-GW01-12052018	3510C, 8270D	T	200 uL					
460-170982-E-2	9999-23-MW02-GW01-12052018	3510C, 8270D	T	200 uL					
460-170982-E-3	9999-23-MW03-GW01-12052018	3510C, 8270D	T	200 uL					
460-170982-D-4	9999-23-FB-BK01-12052018	3510C, 8270D	T	200 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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 574537 Batch Start Date: 12/10/18 09:58 Batch Analyst: Babu, Dhanalakshmi X

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid Used for pH Adjustment ID	186983
Base Used to Adjust pH ID	OP2761
Batch Comment	3510C_LVI 8270D
Analyst ID - Extraction	DB
Method/Fraction	BNA WATER
Prep Solvent ID	MeCL2 202867
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	DB
Analyst ID - Spike Witness Analyst	DB
Sufficient Volume for Batch QC	Yes

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_SIM_DKQP

Semivolatile Organic Compounds (GC/MS SIM)

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: h234791.D

Lab ID: LCS 460-574537/6-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	0.800	0.524	65	70-130	*
Acenaphthylene	0.800	0.449	56	70-130	*
Anthracene	0.800	0.759	95	70-130	
Benzo[a]anthracene	0.800	0.847	106	70-130	
Benzo[a]pyrene	0.800	0.818	102	70-130	
Benzo[b]fluoranthene	0.800	0.893	112	70-130	
Benzo[g,h,i]perylene	0.800	1.16	145	70-130	*
Benzo[k]fluoranthene	0.800	0.809	101	70-130	
Bis(2-chloroethyl)ether	0.800	1.08	135	70-130	*
Chrysene	0.800	0.884	110	70-130	
Dibenz(a,h)anthracene	0.800	1.16	145	70-130	*
Fluoranthene	0.800	0.782	98	70-130	
Fluorene	0.800	0.506	63	70-130	*
Indeno[1,2,3-cd]pyrene	0.800	1.09	137	70-130	*
Naphthalene	0.800	0.697	87	70-130	
Phenanthrene	0.800	0.587	73	70-130	
Pyrene	0.800	0.773	97	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Level: Low Lab File ID: h234792.D

Lab ID: LCSD 460-574537/7-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	0.800	0.571	71	9	20	70-130	
Acenaphthylene	0.800	0.431	54	4	20	70-130	*
Anthracene	0.800	0.794	99	5	20	70-130	
Benzo[a]anthracene	0.800	0.875	109	3	20	70-130	
Benzo[a]pyrene	0.800	0.862	108	5	20	70-130	
Benzo[b]fluoranthene	0.800	0.906	113	1	20	70-130	
Benzo[g,h,i]perylene	0.800	1.18	147	2	20	70-130	*
Benzo[k]fluoranthene	0.800	0.800	100	1	20	70-130	
Bis(2-chloroethyl)ether	0.800	1.01	126	7	20	70-130	
Chrysene	0.800	0.894	112	1	20	70-130	
Dibenz(a,h)anthracene	0.800	1.18	147	1	20	70-130	*
Fluoranthene	0.800	0.796	99	2	20	70-130	
Fluorene	0.800	0.503	63	1	20	70-130	*
Indeno[1,2,3-cd]pyrene	0.800	1.09	136	0	20	70-130	*
Naphthalene	0.800	0.668	83	4	20	70-130	
Phenanthrene	0.800	0.581	73	1	20	70-130	
Pyrene	0.800	0.792	99	2	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: h234790.D Lab Sample ID: MB 460-574537/1-A

Matrix: Water Date Extracted: 12/10/2018 09:58

Instrument ID: CBNAMS9 Date Analyzed: 12/10/2018 20:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-574537/6-A	h234791.D	12/10/2018 20:45
	LCSD 460-574537/7-A	h234792.D	12/10/2018 21:06
9999-23-MW01-GW01-12052018	460-170982-1	h234972.D	12/15/2018 08:59
9999-23-MW02-GW01-12052018	460-170982-2	h234973.D	12/15/2018 09:20
9999-23-MW03-GW01-12052018	460-170982-3	h234974.D	12/15/2018 09:41
9999-23-FB-BK01-12052018	460-170982-4	h234975.D	12/15/2018 10:02

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: h233747.D DFTPP Injection Date: 11/06/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 11:03

Analysis Batch No.: 566141

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	34.1	
68	Less than 2.0 % of mass 69	0.3	(0.7) 1
69	Mass 69 relative abundance	33.8	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	46.0	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.0	
275	10.0 - 30.0 % of mass 198	23.8	
365	Greater than 1.0 % of mass 198	3.7	
441	Present but less than mass 443	15.6	(81.0) 3
442	Greater than 40.0 % of mass 198	97.6	
443	17.0 - 23.0 % of mass 442	19.2	(19.7) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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
	ICIS 460-566141/2	h233748.D	11/06/2018	11:43
	STD6 460-566141/3	h233749.D	11/06/2018	12:07
	STD5 460-566141/4	h233750.D	11/06/2018	12:28
	STD4 460-566141/5	h233751.D	11/06/2018	12:50
	STD2 460-566141/6	h233752.D	11/06/2018	13:11
	STD1 460-566141/7	h233753.D	11/06/2018	13:32

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: h234787.D DFTPP Injection Date: 12/10/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 18:33

Analysis Batch No.: 574646

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	45.0	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	42.5	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	49.7	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	22.6	
365	Greater than 1.0 % of mass 198	3.7	
441	Present but less than mass 443	15.7	(83.6) 3
442	Greater than 40.0 % of mass 198	99.6	
443	17.0 - 23.0 % of mass 442	18.8	(18.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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 460-574646/2	h234788a.D	12/10/2018	19:26
	MB 460-574537/1-A	h234790.D	12/10/2018	20:23
	LCS 460-574537/6-A	h234791.D	12/10/2018	20:45
	LCSD 460-574537/7-A	h234792.D	12/10/2018	21:06

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab File ID: h234951.D DFTPP Injection Date: 12/15/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 01:02

Analysis Batch No.: 575972

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	35.0	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	33.9	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	43.8	
197	Less than 1.0 % of mass 198	0.9	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.2	
275	10.0 - 30.0 % of mass 198	27.4	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	17.8	(79.0) 3
442	Greater than 40.0 % of mass 198	116.6	
443	17.0 - 23.0 % of mass 442	22.5	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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 460-575972/2	h234952.D	12/15/2018	01:27
9999-23-MW01-GW01-12052018	460-170982-1	h234972.D	12/15/2018	08:59
9999-23-MW02-GW01-12052018	460-170982-2	h234973.D	12/15/2018	09:20
9999-23-MW03-GW01-12052018	460-170982-3	h234974.D	12/15/2018	09:41
9999-23-FB-BK01-12052018	460-170982-4	h234975.D	12/15/2018	10:02

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-574646/2 Date Analyzed: 12/10/2018 19:26

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): h234788a.D Heated Purge: (Y/N) N

Calibration ID: 71955

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		8042	4.08	26008	5.31	12824	6.97
UPPER LIMIT		16084	4.58	52016	5.81	25648	7.47
LOWER LIMIT		4021	3.58	13004	4.81	6412	6.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-574537/1-A		9129	4.08	30777	5.31	15943	6.97
LCS 460-574537/6-A		6903	4.08	23763	5.31	13213	6.97
LCSD 460-574537/7-A		9028	4.08	30841	5.31	17338	6.97

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-574646/2 Date Analyzed: 12/10/2018 19:26

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): h234788a.D Heated Purge: (Y/N) N

Calibration ID: 71955

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		24286	8.38	19062	10.95	23927	12.73
UPPER LIMIT		48572	8.88	38124	11.45	47854	13.23
LOWER LIMIT		12143	7.88	9531	10.45	11964	12.23
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-574537/1-A		29451	8.38	21386	10.95	26703	12.73
LCS 460-574537/6-A		22441	8.38	18794	10.95	24011	12.73
LCSD 460-574537/7-A		28574	8.38	23838	10.95	30652	12.72

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-575972/2 Date Analyzed: 12/15/2018 01:27

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): h234952.D Heated Purge: (Y/N) N

Calibration ID: 71955

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		6084	4.08	18616	5.30	9682	6.97
UPPER LIMIT		12168	4.58	37232	5.80	19364	7.47
LOWER LIMIT		3042	3.58	9308	4.80	4841	6.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
460-170982-1	9999-23-MW01-GW01-12052018	4355	4.08	13838	5.30	7714	6.97
460-170982-2	9999-23-MW02-GW01-12052018	4640	4.08	14719	5.30	8101	6.97
460-170982-3	9999-23-MW03-GW01-12052018	4433	4.08	14100	5.30	7667	6.97
460-170982-4	9999-23-FB-BK01-12052018	4761	4.08	15512	5.30	8409	6.97

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Sample No.: CCVIS 460-575972/2 Date Analyzed: 12/15/2018 01:27

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): h234952.D Heated Purge: (Y/N) N

Calibration ID: 71955

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		14572	8.38	13109	10.94	16313	12.72
UPPER LIMIT		29144	8.88	26218	11.44	32626	13.22
LOWER LIMIT		7286	7.88	6555	10.44	8157	12.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
460-170982-1	9999-23-MW01-GW01-12052018	10503	8.38	9463	10.94	11958	12.72
460-170982-2	9999-23-MW02-GW01-12052018	11832	8.38	11110	10.94	14773	12.72
460-170982-3	9999-23-MW03-GW01-12052018	10969	8.38	9292	10.94	12555	12.72
460-170982-4	9999-23-FB-BK01-12052018	12425	8.38	11915	10.94	15454	12.72

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D SIM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW01-GW01-12052018 | Lab Sample ID: 460-170982-1

Matrix: Water | Lab File ID: h234972.D

Analysis Method: 8270D SIM | Date Collected: 12/05/2018 12:10

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2018 08:59

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 575972 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.014	U *	0.050	0.014
208-96-8	Acenaphthylene	0.015	U *	0.050	0.015
120-12-7	Anthracene	0.0092	U	0.050	0.0092
56-55-3	Benzo[a]anthracene	0.016	U	0.050	0.016
50-32-8	Benzo[a]pyrene	0.022	U	0.050	0.022
205-99-2	Benzo[b]fluoranthene	0.024	U	0.050	0.024
191-24-2	Benzo[g,h,i]perylene	0.035	U *	0.050	0.035
207-08-9	Benzo[k]fluoranthene	0.028	U	0.050	0.028
111-44-4	Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026
218-01-9	Chrysene	0.030	U	0.050	0.030
53-70-3	Dibenz(a,h)anthracene	0.011	U *	0.050	0.011
206-44-0	Fluoranthene	0.039	U	0.050	0.039
86-73-7	Fluorene	0.012	U *	0.050	0.012
193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036
91-20-3	Naphthalene	0.12	U	0.20	0.12
85-01-8	Phenanthrene	0.022	U	0.050	0.022
129-00-0	Pyrene	0.031	U	0.050	0.031

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234972.D
Lims ID: 460-170982-F-1-A
Client ID: 9999-23-MW01-GW01-12052018
Sample Type: Client
Inject. Date: 15-Dec-2018 08:59:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083603-022
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 17-Dec-2018 08:44:09 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: hamziy Date: 16-Dec-2018 04:50:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	98	4355	0.2000	
$ 6 Nitrobenzene-d5	82	4.610	4.610	0.000	93	230414	9.67	
* 7 Naphthalene-d8	136	5.302	5.302	0.000	100	13838	0.2000	
8 Naphthalene	128	5.326	5.326	0.000	94	516	0.006408	
$ 9 2-Fluorobiphenyl	172	6.337	6.337	0.000	97	449285	6.68	
* 11 Acenaphthene-d10	164	6.969	6.968	0.001	90	7714	0.2000	
* 17 Phenanthrene-d10	188	8.376	8.376	0.000	99	10503	0.2000	
$ 23 Terphenyl-d14	244	9.892	9.892	0.000	98	331761	8.20	
* 25 Chrysene-d12	240	10.935	10.935	0.000	93	9463	0.2000	
* 30 Perylene-d12	264	12.719	12.719	0.000	100	11958	0.2000	

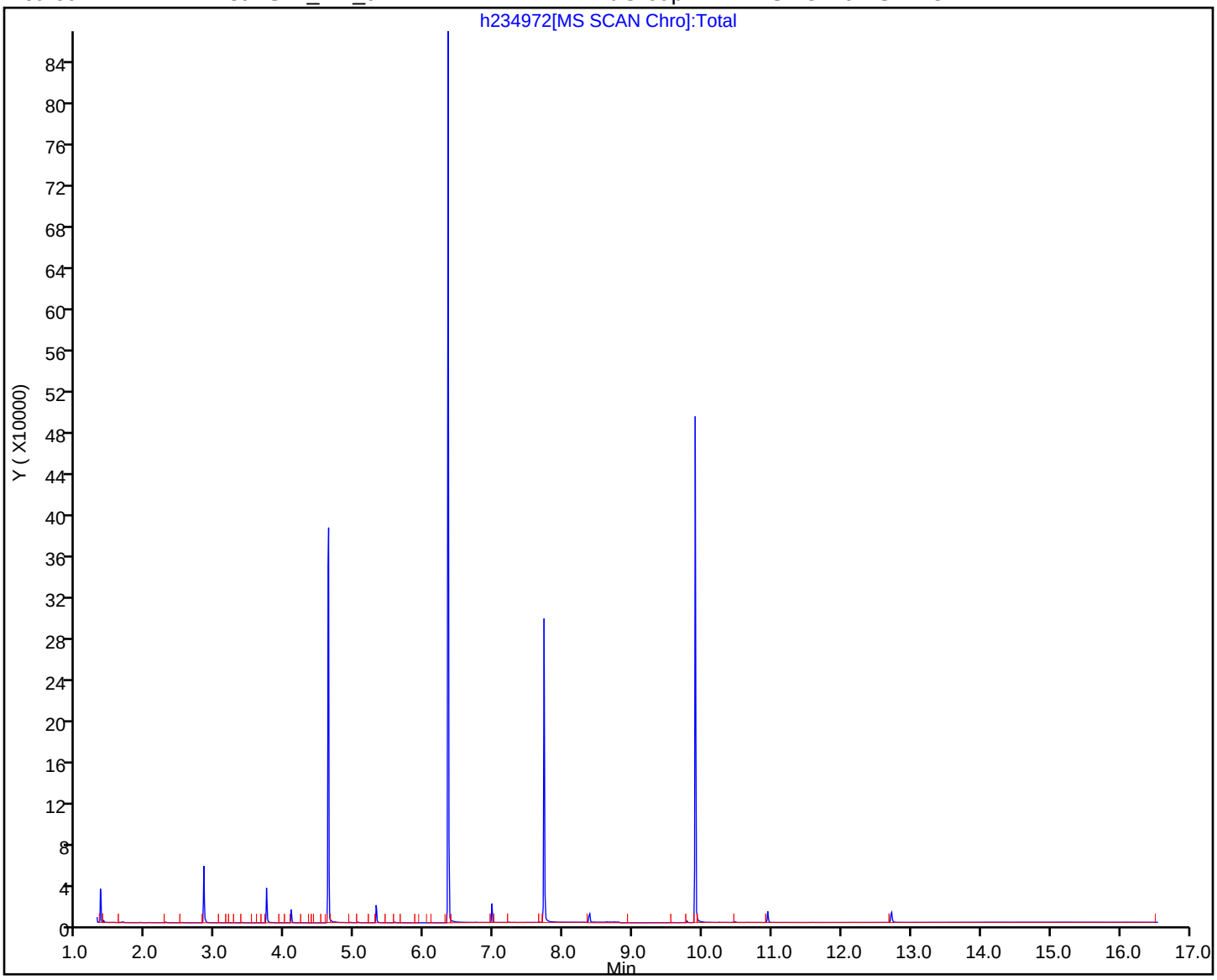
Reagents:

SM_SIMISTDLVI_00024 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 17-Dec-2018 08:44:51 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234972.D				
Injection Date:	15-Dec-2018 08:59:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



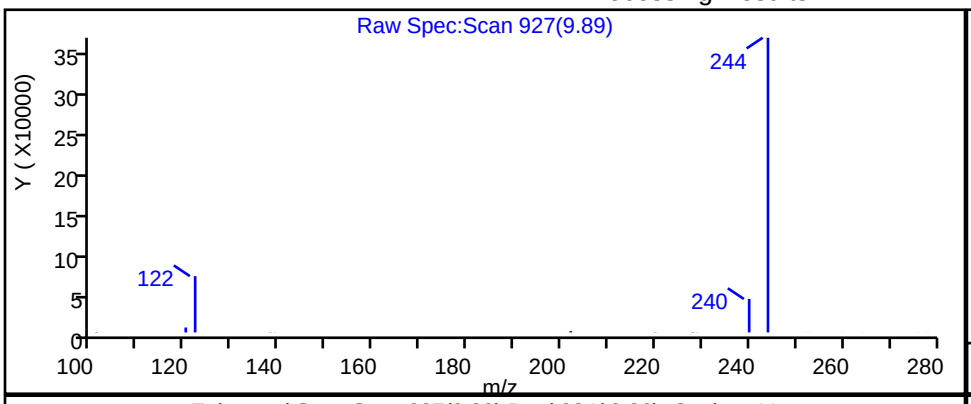
User Disabled Compound Report

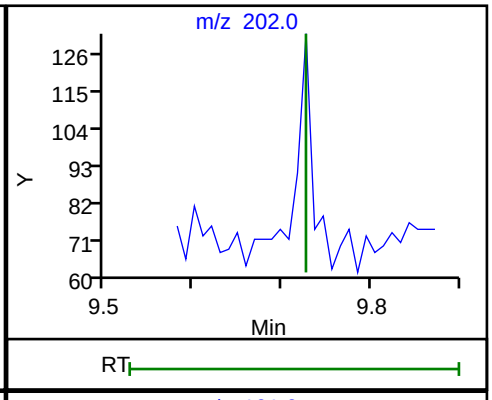
TestAmerica Edison

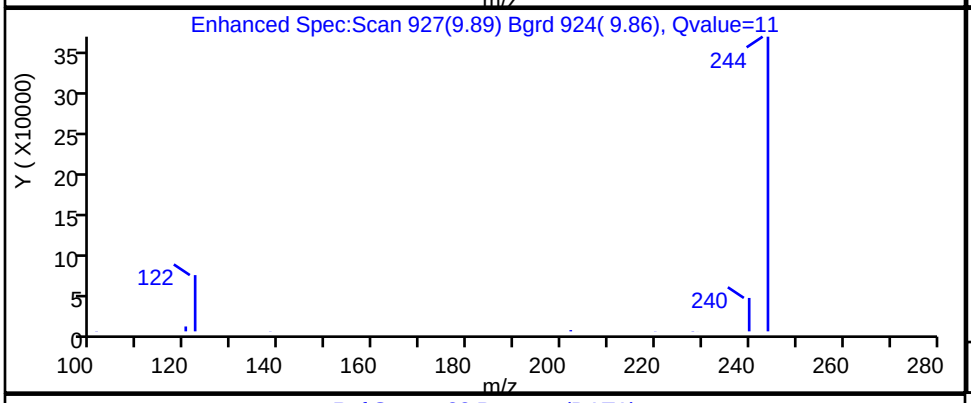
Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234972.D				
Injection Date:	15-Dec-2018 08:59:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-F-1-A	Lab Sample ID:	460-170982-1		
Client ID:	9999-23-MW01-GW01-12052018				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		
Column:		Detector	MS SCAN		

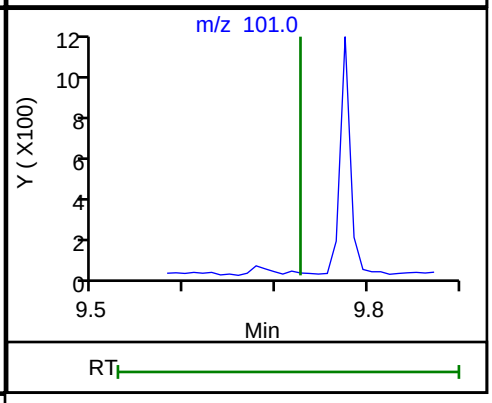
22 Pyrene, CAS: 129-00-0

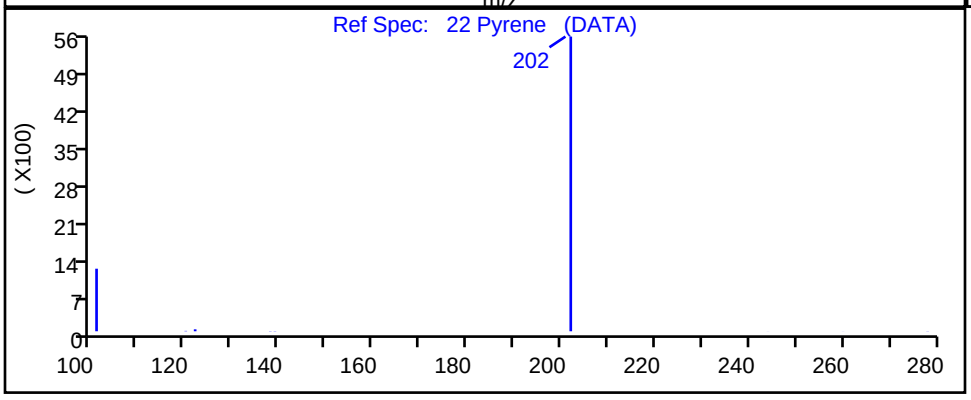
Processing Results











RT	Mass	Response	Amount
9.89	202.00	1170	0.013247
9.89	101.00	259	

Reviewer: hamziy, 16-Dec-2018 04:50:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW02-GW01-12052018 | Lab Sample ID: 460-170982-2

Matrix: Water | Lab File ID: h234973.D

Analysis Method: 8270D SIM | Date Collected: 12/05/2018 09:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2018 09:20

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 575972 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.014	U *	0.050	0.014
208-96-8	Acenaphthylene	0.015	U *	0.050	0.015
120-12-7	Anthracene	0.0092	U	0.050	0.0092
56-55-3	Benzo[a]anthracene	0.016	U	0.050	0.016
50-32-8	Benzo[a]pyrene	0.022	U	0.050	0.022
205-99-2	Benzo[b]fluoranthene	0.024	U	0.050	0.024
191-24-2	Benzo[g,h,i]perylene	0.035	U *	0.050	0.035
207-08-9	Benzo[k]fluoranthene	0.028	U	0.050	0.028
111-44-4	Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026
218-01-9	Chrysene	0.030	U	0.050	0.030
53-70-3	Dibenz(a,h)anthracene	0.011	U *	0.050	0.011
206-44-0	Fluoranthene	0.039	U	0.050	0.039
86-73-7	Fluorene	0.012	U *	0.050	0.012
193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036
91-20-3	Naphthalene	0.12	U	0.20	0.12
85-01-8	Phenanthrene	0.022	U	0.050	0.022
129-00-0	Pyrene	0.031	U	0.050	0.031

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234973.D
Lims ID: 460-170982-E-2-A
Client ID: 9999-23-MW02-GW01-12052018
Sample Type: Client
Inject. Date: 15-Dec-2018 09:20:30 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083603-023
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 17-Dec-2018 08:44:09 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: hamziy Date: 16-Dec-2018 04:50:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	98	4640	0.2000	
$ 6 Nitrobenzene-d5	82	4.618	4.610	0.008	92	277224	10.9	
* 7 Naphthalene-d8	136	5.302	5.302	0.000	100	14719	0.2000	
8 Naphthalene	128	5.327	5.326	0.000	94	593	0.006923	
$ 9 2-Fluorobiphenyl	172	6.337	6.337	0.000	98	565048	8.00	
* 11 Acenaphthene-d10	164	6.969	6.968	0.001	91	8101	0.2000	
* 17 Phenanthrene-d10	188	8.376	8.376	0.000	99	11832	0.2000	
$ 23 Terphenyl-d14	244	9.892	9.892	0.000	98	412292	8.68	
* 25 Chrysene-d12	240	10.936	10.935	0.001	93	11110	0.2000	
* 30 Perylene-d12	264	12.720	12.719	0.001	100	14773	0.2000	

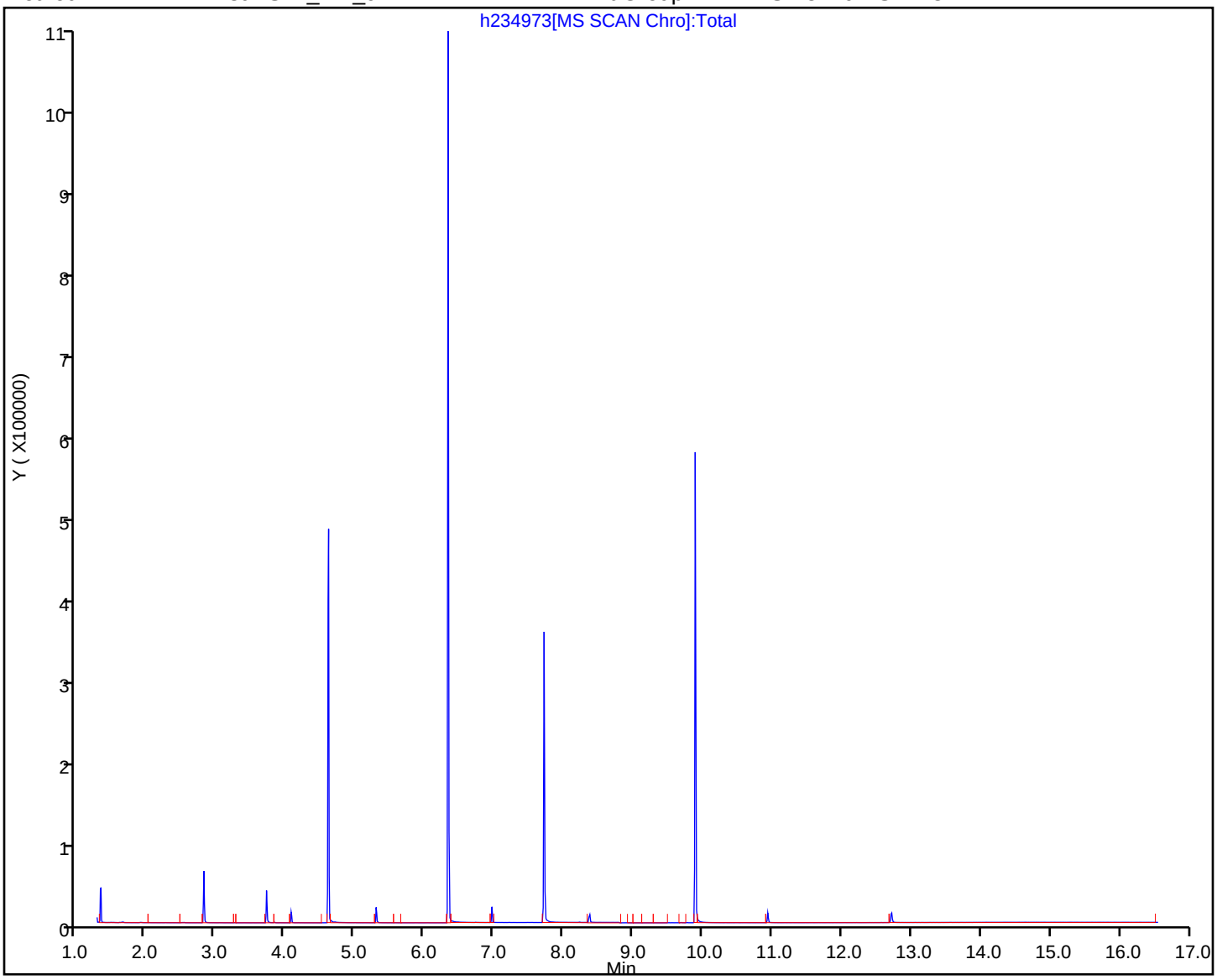
Reagents:

SM_SIMISTDLVI_00024 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 17-Dec-2018 08:45:10 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234973.D				
Injection Date:	15-Dec-2018 09:20:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2		
Client ID:	9999-23-MW02-GW01-12052018				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



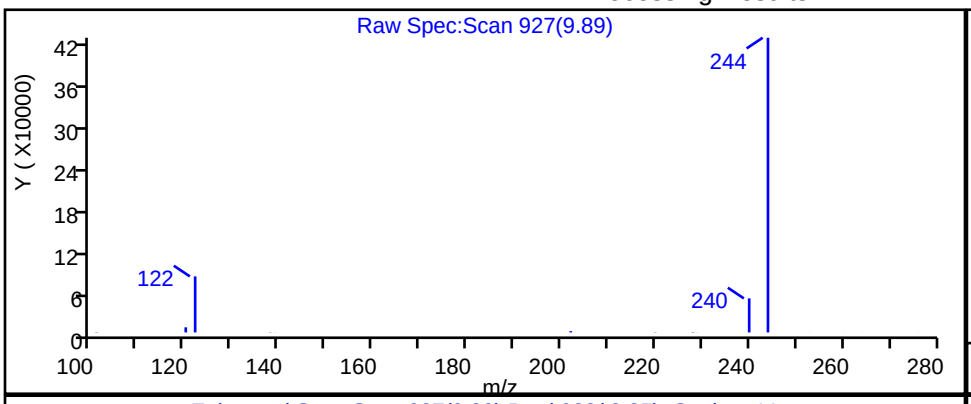
User Disabled Compound Report

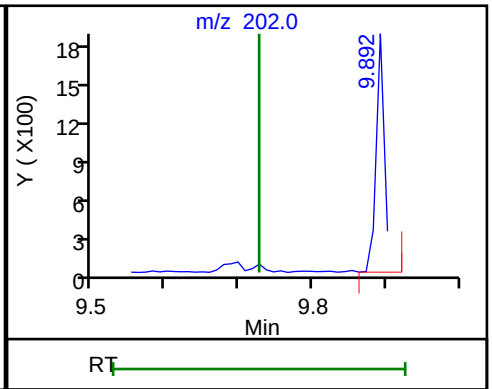
TestAmerica Edison

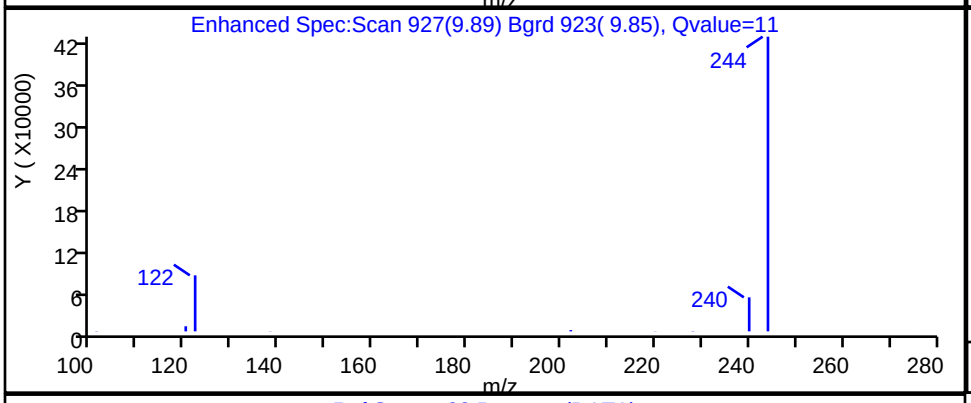
Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234973.D				
Injection Date:	15-Dec-2018 09:20:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-E-2-A	Lab Sample ID:	460-170982-2		
Client ID:	9999-23-MW02-GW01-12052018				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		
Column:		Detector	MS SCAN		

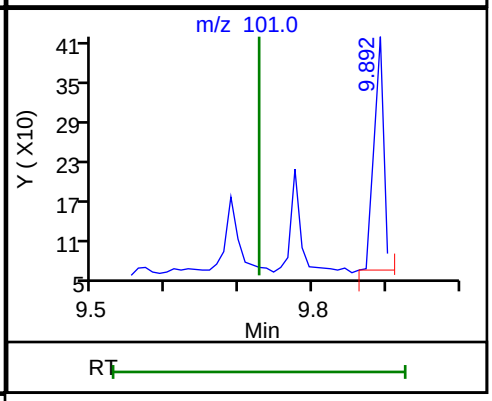
22 Pyrene, CAS: 129-00-0

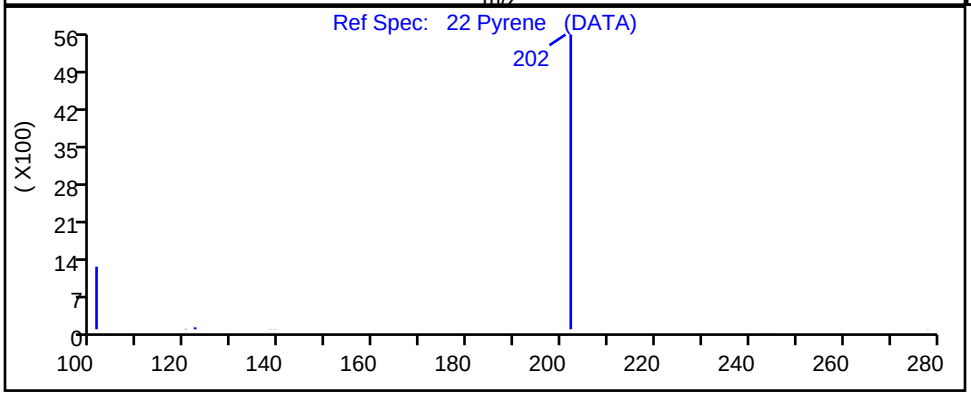
Processing Results











RT	Mass	Response	Amount
9.89	202.00	1453	0.014012
9.89	101.00	327	

Reviewer: hamziy, 16-Dec-2018 04:50:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-MW03-GW01-12052018 | Lab Sample ID: 460-170982-3

Matrix: Water | Lab File ID: h234974.D

Analysis Method: 8270D SIM | Date Collected: 12/05/2018 10:30

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2018 09:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 575972 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.014	U *	0.050	0.014
208-96-8	Acenaphthylene	0.015	U *	0.050	0.015
120-12-7	Anthracene	0.0092	U	0.050	0.0092
56-55-3	Benzo[a]anthracene	0.016	U	0.050	0.016
50-32-8	Benzo[a]pyrene	0.022	U	0.050	0.022
205-99-2	Benzo[b]fluoranthene	0.024	U	0.050	0.024
191-24-2	Benzo[g,h,i]perylene	0.035	U *	0.050	0.035
207-08-9	Benzo[k]fluoranthene	0.028	U	0.050	0.028
111-44-4	Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026
218-01-9	Chrysene	0.030	U	0.050	0.030
53-70-3	Dibenz(a,h)anthracene	0.011	U *	0.050	0.011
206-44-0	Fluoranthene	0.039	U	0.050	0.039
86-73-7	Fluorene	0.012	U *	0.050	0.012
193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036
91-20-3	Naphthalene	0.12	U	0.20	0.12
85-01-8	Phenanthrene	0.022	U	0.050	0.022
129-00-0	Pyrene	0.031	U	0.050	0.031

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234974.D
Lims ID: 460-170982-E-3-A
Client ID: 9999-23-MW03-GW01-12052018
Sample Type: Client
Inject. Date: 15-Dec-2018 09:41:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083603-024
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 17-Dec-2018 08:44:09 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: hamziy Date: 16-Dec-2018 04:50:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	100	4433	0.2000	
$ 6 Nitrobenzene-d5	82	4.610	4.610	0.000	97	232042	9.56	
* 7 Naphthalene-d8	136	5.302	5.302	0.000	99	14100	0.2000	
8 Naphthalene	128	5.326	5.326	0.000	84	380	0.004631	
$ 9 2-Fluorobiphenyl	172	6.337	6.337	0.000	97	468600	7.01	
* 11 Acenaphthene-d10	164	6.969	6.968	0.000	90	7667	0.2000	
* 17 Phenanthrene-d10	188	8.376	8.376	0.000	99	10969	0.2000	
$ 23 Terphenyl-d14	244	9.892	9.892	0.000	97	348860	8.78	
* 25 Chrysene-d12	240	10.935	10.935	0.000	93	9292	0.2000	
* 30 Perylene-d12	264	12.719	12.719	0.000	100	12555	0.2000	

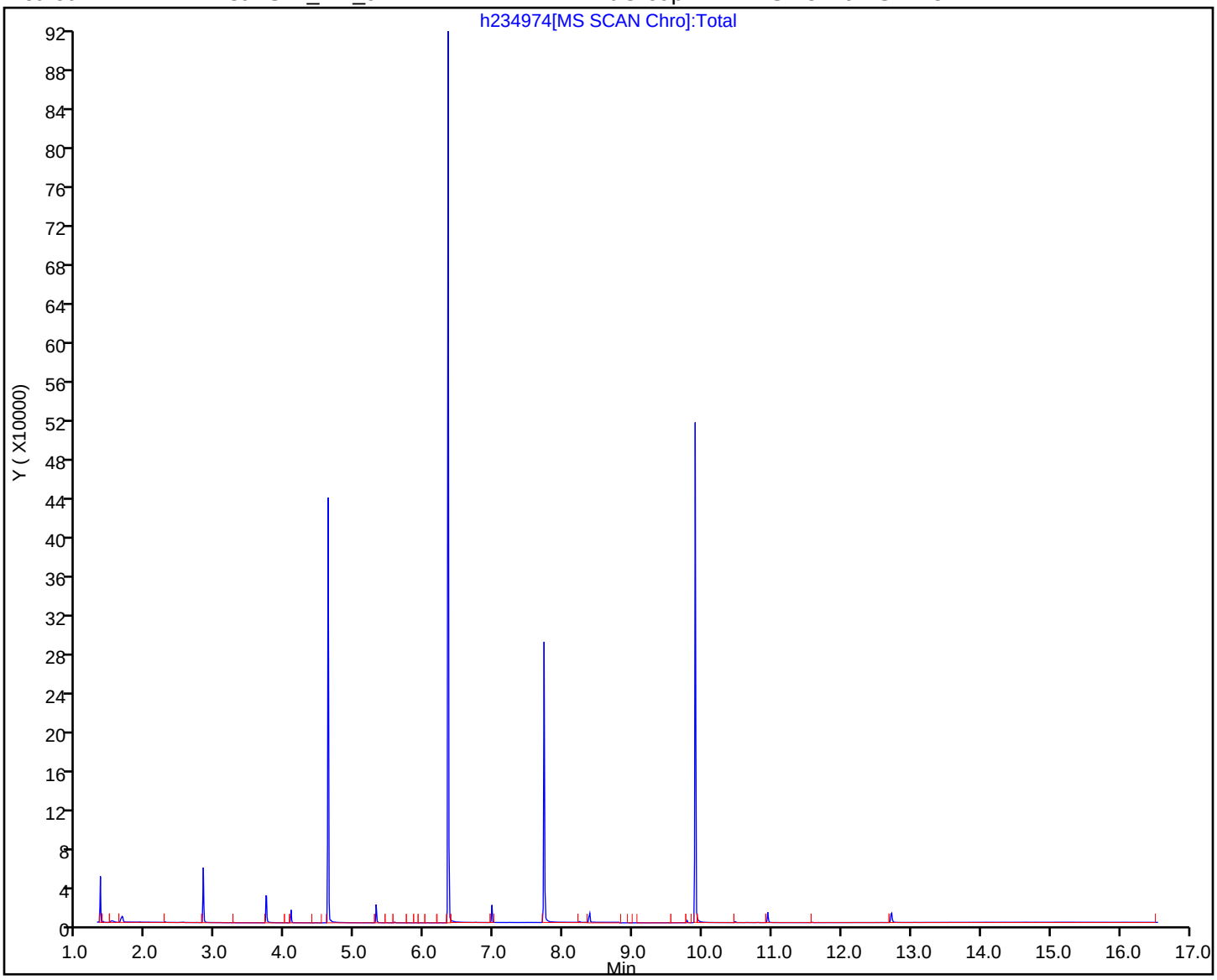
Reagents:

SM_SIMISTDLVI_00024 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 17-Dec-2018 08:45:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234974.D				
Injection Date:	15-Dec-2018 09:41:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



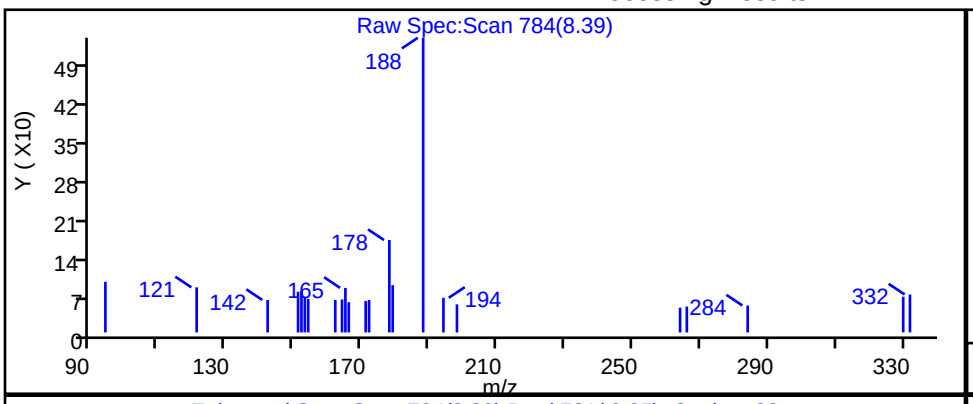
User Disabled Compound Report

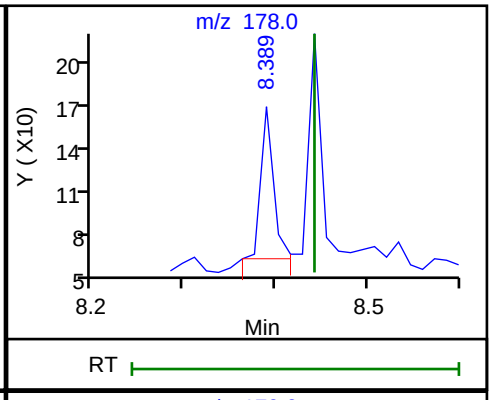
TestAmerica Edison

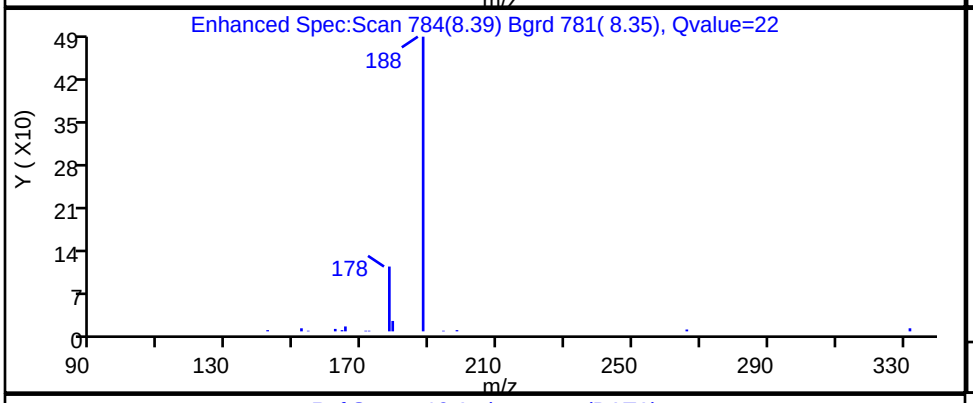
Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234974.D				
Injection Date:	15-Dec-2018 09:41:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		
Column:		Detector	MS SCAN		

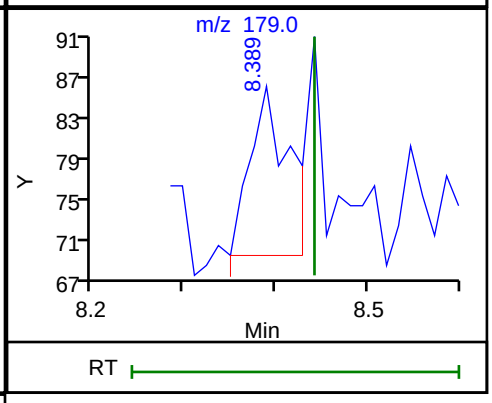
19 Anthracene, CAS: 120-12-7

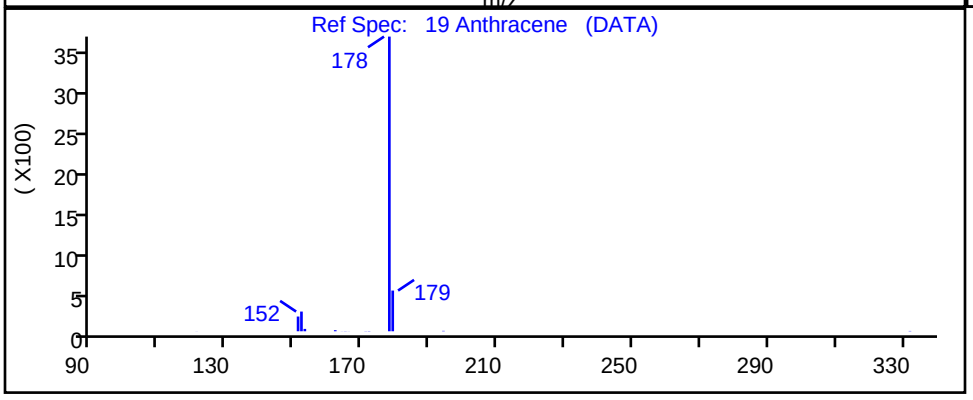
Processing Results











RT	Mass	Response	Amount
8.39	178.00	96	0.001275
8.39	179.00	51	

Reviewer: hamziy, 16-Dec-2018 04:50:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

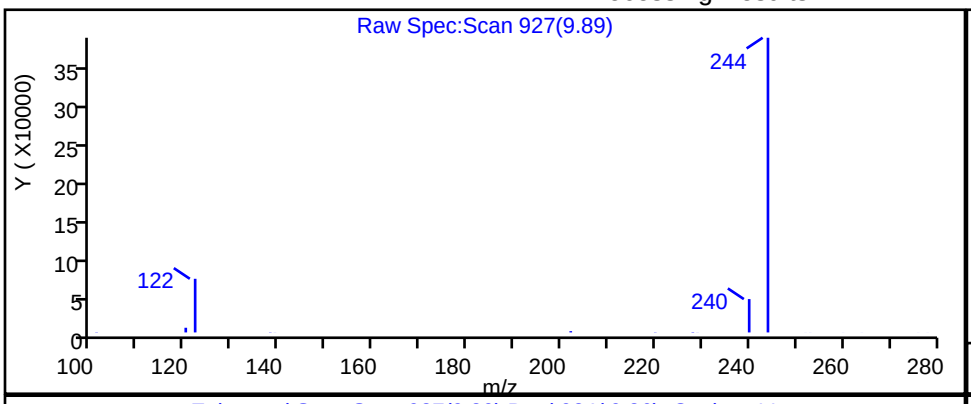
User Disabled Compound Report

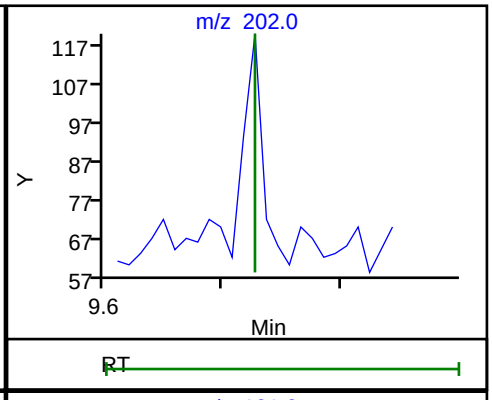
TestAmerica Edison

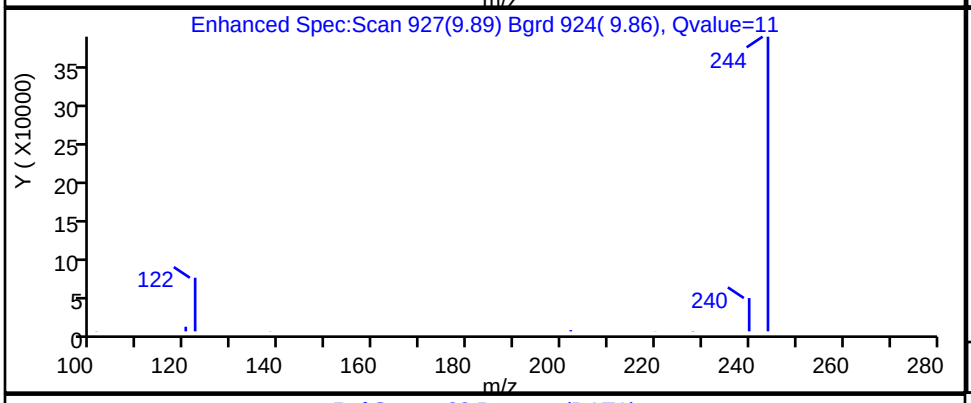
Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234974.D				
Injection Date:	15-Dec-2018 09:41:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-E-3-A	Lab Sample ID:	460-170982-3		
Client ID:	9999-23-MW03-GW01-12052018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		
Column:		Detector	MS SCAN		

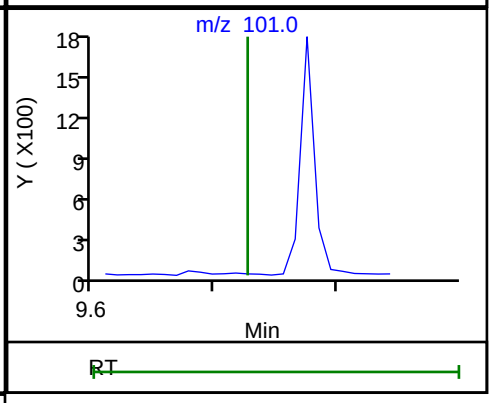
22 Pyrene, CAS: 129-00-0

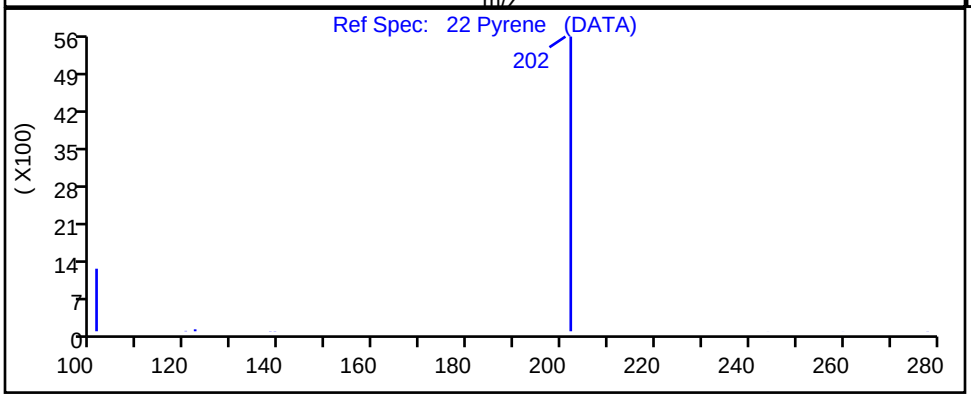
Processing Results











RT	Mass	Response	Amount
9.89	202.00	1228	0.014159
9.89	101.00	270	

Reviewer: hamziy, 16-Dec-2018 04:50:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: 9999-23-FB-BK01-12052018 | Lab Sample ID: 460-170982-4

Matrix: Water | Lab File ID: h234975.D

Analysis Method: 8270D SIM | Date Collected: 12/05/2018 15:00

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/15/2018 10:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 575972 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.014	U *	0.050	0.014
208-96-8	Acenaphthylene	0.015	U *	0.050	0.015
120-12-7	Anthracene	0.0092	U	0.050	0.0092
56-55-3	Benzo[a]anthracene	0.016	U	0.050	0.016
50-32-8	Benzo[a]pyrene	0.022	U	0.050	0.022
205-99-2	Benzo[b]fluoranthene	0.024	U	0.050	0.024
191-24-2	Benzo[g,h,i]perylene	0.035	U *	0.050	0.035
207-08-9	Benzo[k]fluoranthene	0.028	U	0.050	0.028
111-44-4	Bis(2-chloroethyl)ether	0.026	U *	0.030	0.026
218-01-9	Chrysene	0.030	U	0.050	0.030
53-70-3	Dibenz(a,h)anthracene	0.011	U *	0.050	0.011
206-44-0	Fluoranthene	0.039	U	0.050	0.039
86-73-7	Fluorene	0.012	U *	0.050	0.012
193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U *	0.050	0.036
91-20-3	Naphthalene	0.12	U	0.20	0.12
85-01-8	Phenanthrene	0.022	U	0.050	0.022
129-00-0	Pyrene	0.031	U	0.050	0.031

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234975.D
Lims ID: 460-170982-D-4-A
Client ID: 9999-23-FB-BK01-12052018
Sample Type: Client
Inject. Date: 15-Dec-2018 10:02:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083603-025
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 17-Dec-2018 08:44:09 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: hamziy Date: 16-Dec-2018 04:51:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	98	4761	0.2000	
$ 6 Nitrobenzene-d5	82	4.610	4.610	0.000	94	244677	9.16	
* 7 Naphthalene-d8	136	5.302	5.302	0.000	100	15512	0.2000	
8 Naphthalene	128	5.326	5.326	0.000	100	863	0.009561	
$ 9 2-Fluorobiphenyl	172	6.337	6.337	0.000	97	498019	6.79	
* 11 Acenaphthene-d10	164	6.969	6.968	0.001	91	8409	0.2000	
* 17 Phenanthrene-d10	188	8.376	8.376	0.000	99	12425	0.2000	
$ 23 Terphenyl-d14	244	9.892	9.892	0.000	98	436813	8.58	
* 25 Chrysene-d12	240	10.935	10.935	0.000	92	11915	0.2000	
* 30 Perylene-d12	264	12.719	12.719	0.000	100	15454	0.2000	

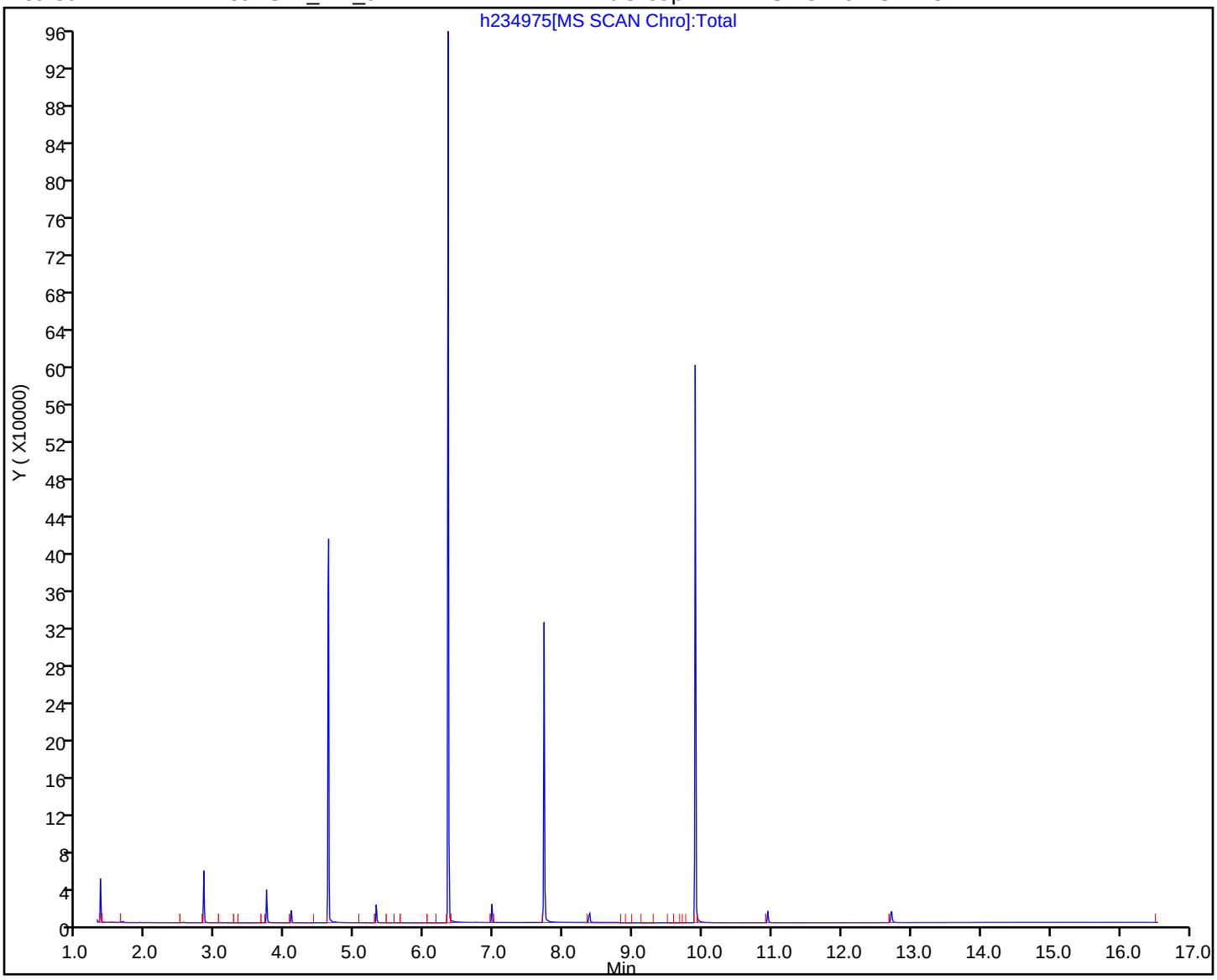
Reagents:

SM_SIMISTDLVI_00024 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 17-Dec-2018 08:45:58 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234975.D				
Injection Date:	15-Dec-2018 10:02:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-D-4-A	Lab Sample ID:	460-170982-4		
Client ID:	9999-23-FB-BK01-12052018				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



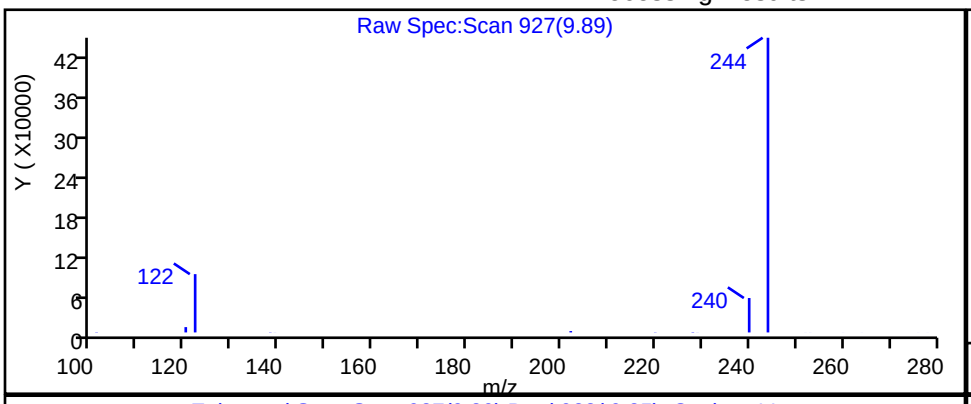
User Disabled Compound Report

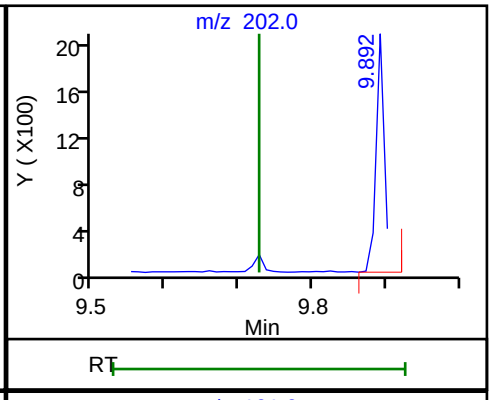
TestAmerica Edison

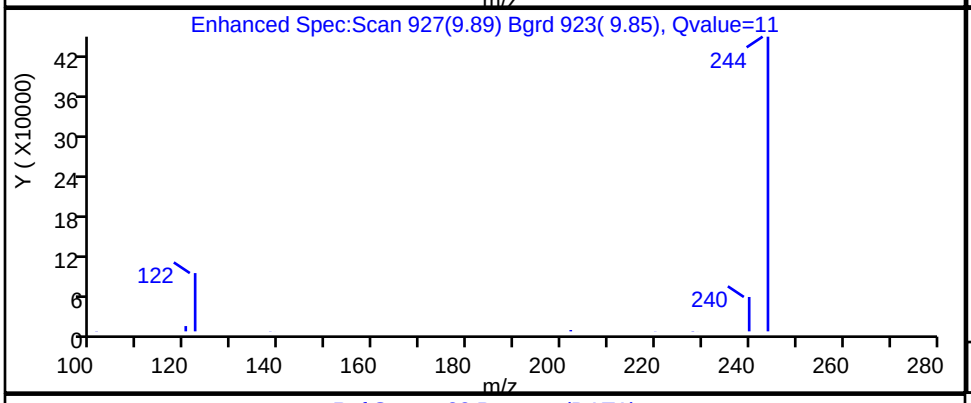
Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234975.D				
Injection Date:	15-Dec-2018 10:02:30	Instrument ID:	CBNAMS9		
Lims ID:	460-170982-D-4-A	Lab Sample ID:	460-170982-4		
Client ID:	9999-23-FB-BK01-12052018				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		
Column:		Detector	MS SCAN		

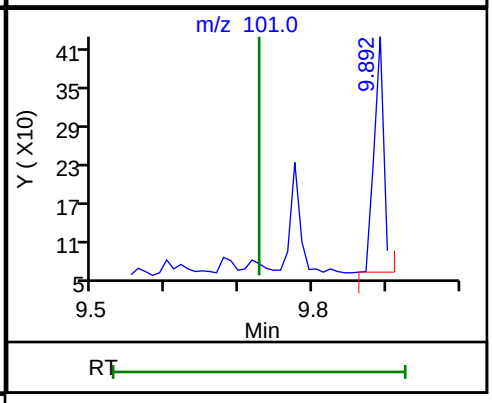
22 Pyrene, CAS: 129-00-0

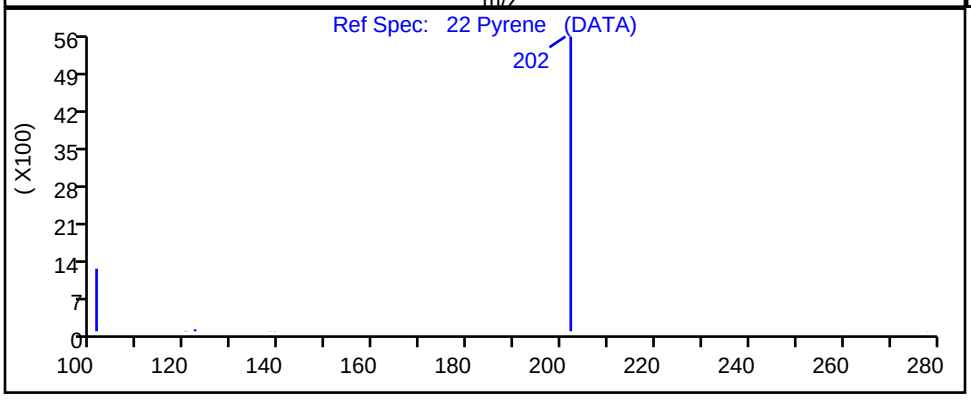
Processing Results











RT	Mass	Response	Amount
9.89	202.00	1608	0.014459
9.89	101.00	335	

Reviewer: hamziy, 16-Dec-2018 04:51:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 566141

SDG No.: EJ1815811.001

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/06/2018 11:43 Calibration End Date: 11/06/2018 13:32 Calibration ID: 71955

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-566141/7	h233753.D
Level 2	STD2 460-566141/6	h233752.D
Level 3	ICIS 460-566141/2	h233748.D
Level 4	STD4 460-566141/5	h233751.D
Level 5	STD5 460-566141/4	h233750.D
Level 6	STD6 460-566141/3	h233749.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 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.6370 0.4655	0.5485	0.5793	0.4723	0.4783	Ave		0.5301			0.0100	13.2		20.0			
N-Nitrosodimethylamine	0.6173 0.5620	0.5691	0.7176	0.5989	0.5838	Ave		0.6081			0.0100	9.4		20.0			
Bis(2-chloroethyl)ether	1.4868 1.1247	1.0855	1.1458	1.1197	1.1247	Ave		1.1812			0.7000	12.8		20.0			
Naphthalene	1.2357 1.1864	1.1863	1.2161	1.0911	1.0675	Ave		1.1638			0.7000	5.9		20.0			
Acenaphthylene	3.4349 3.0442	3.0779	3.0402	2.7946	2.8552	Ave		3.0411			0.9000	7.4		20.0			
Acenaphthene	1.7764 1.5950	1.6715	1.6845	1.3542	1.4201	Ave		1.5836			0.9000	10.4		20.0			
Fluorene	2.2283 2.1072	2.0775	2.1759	1.8720	1.9056	Ave		2.0611			0.9000	7.0		20.0			
4,6-Dinitro-2-methylphenol	0.0517 0.1074	0.0551	0.0640	0.0614	0.0745	Qua	0.0002	0.0517	0.0277871		0.0100				1.0000		0.9900
Hexachlorobenzene	0.4750 0.4201	0.3892	0.4246	0.3831	0.3930	Lin2	0.0001	0.3976			0.1000				0.9960		0.9900
Pentachlorophenol	0.1561 0.2513	0.1829	0.1993	0.1719	0.2073	Ave		0.1948			0.0500	17.1		20.0			
Phenanthrene	1.8209 1.7096	1.6644	1.6164	1.4702	1.5029	Ave		1.6307			0.7000	8.0		20.0			
Anthracene	1.2576 1.5961	1.2599	1.5916	1.2136	1.3185	Ave		1.3729			0.7000	12.7		20.0			
Fluoranthene	1.4137 1.6482	1.4422	1.4893	1.2816	1.3952	Ave		1.4450			0.6000	8.4		20.0			
Pyrene	2.2406 1.8212	1.8792	1.9961	1.6453	1.6182	Ave		1.8667			0.6000	12.4		20.0			
Benzo[a]anthracene	1.7931 1.4877	1.6103	1.5414	1.3383	1.3304	Ave		1.5169			0.8000	11.5		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 Edison Job No.: 460-170982-1 Analy Batch No.: 566141

SDG No.: EJ1815811.001

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/06/2018 11:43 Calibration End Date: 11/06/2018 13:32 Calibration ID: 71955

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 3	LVL 4	LVL 5		B	M1	M2								
Chrysene	1.7613 1.4961	1.4388	1.5188	1.3514	1.3764	Ave		1.4905			0.7000	9.9		20.0			
Benzo[b]fluoranthene	1.5756 1.4283	1.5104	1.3360	1.2470	1.2606	Ave		1.3930			0.7000	9.7		20.0			
Benzo[k]fluoranthene	1.4440 1.6505	1.5829	1.6788	1.3892	1.4307	Ave		1.5293			0.7000	8.1		20.0			
Benzo[a]pyrene	1.5411 1.4397	1.4415	1.3911	1.2045	1.2438	Ave		1.3769			0.7000	9.3		20.0			
Indeno[1,2,3-cd]pyrene	1.3845 1.4633	1.2775	1.3152	1.1431	1.2046	Ave		1.2980			0.5000	9.0		20.0			
Dibenz(a,h)anthracene	1.1464 1.3801	1.2133	1.2359	1.1386	1.2196	Ave		1.2223			0.4000	7.1		20.0			
Benzo[g,h,i]perylene	1.6476 1.5424	1.3928	1.4167	1.2601	1.3442	Ave		1.4339			0.5000	9.7		20.0			
Nitrobenzene-d5	0.3749 0.3070	0.3357	0.3714	0.3437	0.3333	Ave		0.3443			0.0100	7.4		20.0			
2-Fluorobiphenyl	2.0275 1.4031	1.8834	1.7033	1.7203	1.7251	Ave		1.7438			0.0100	12.0		20.0			
2,4,6-Tribromophenol	0.2651 0.3127	0.2727	0.2855	0.2953	0.2966	Ave		0.2880			0.0100	6.0		20.0			
Terphenyl-d14	0.9167 0.8120	0.8598	0.8767	0.8240	0.8395	Ave		0.8548			0.0100	4.5		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 Edison Job No.: 460-170982-1 Analy Batch No.: 566141

SDG No.: EJ1815811.001

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/06/2018 11:43 Calibration End Date: 11/06/2018 13:32 Calibration ID: 71955

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-566141/7	h233753.D
Level 2	STD2 460-566141/6	h233752.D
Level 3	ICIS 460-566141/2	h233748.D
Level 4	STD4 460-566141/5	h233751.D
Level 5	STD5 460-566141/4	h233750.D
Level 6	STD6 460-566141/3	h233749.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	1131 39428	2789	4960	12226	18074	0.0400 2.00	0.100	0.200	0.400	0.800
N-Nitrosodimethylamine	DCBd 4	Ave	548 23799	1447	3072	7752	11030	0.0200 1.00	0.0500	0.100	0.200	0.400
Bis(2-chloroethyl)ether	DCBd 4	Ave	132 47631	276	981	14492	21251	0.00200 1.00	0.00500	0.0200	0.200	0.400
Naphthalene	NPT	Ave	888 64298	1888	3346	22801	32528	0.00500 0.400	0.0100	0.0200	0.100	0.200
Acenaphthylene	ANT	Ave	874 60055	1683	3032	21345	31127	0.00500 0.400	0.0100	0.0200	0.100	0.200
Acenaphthene	ANT	Ave	452 31466	914	1680	10343	15482	0.00500 0.400	0.0100	0.0200	0.100	0.200
Fluorene	ANT	Ave	567 41571	1136	2170	14298	20775	0.00500 0.400	0.0100	0.0200	0.100	0.200
4,6-Dinitro-2-methylphenol	PHN	Qua	183 17711	538	1107	3290	5683	0.0400 2.00	0.100	0.200	0.400	0.800
Hexachlorobenzene	PHN	Lin2	84 34626	190	735	10273	14985	0.00200 1.00	0.00500	0.0200	0.200	0.400
Pentachlorophenol	PHN	Ave	276 20715	893	1725	4608	7905	0.0200 1.00	0.0500	0.100	0.200	0.400
Phenanthrene	PHN	Ave	805 56369	1625	2798	19709	28652	0.00500 0.400	0.0100	0.0200	0.100	0.200
Anthracene	PHN	Ave	556 52628	1230	2755	16270	25137	0.00500 0.400	0.0100	0.0200	0.100	0.200
Fluoranthene	PHN	Ave	625 54345	1408	2578	17181	26599	0.00500 0.400	0.0100	0.0200	0.100	0.200
Pyrene	CRY	Ave	706 56995	1468	2748	17824	26856	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[a]anthracene	CRY	Ave	565 46558	1258	2122	14498	22080	0.00500 0.400	0.0100	0.0200	0.100	0.200
Chrysene	CRY	Ave	555 46822	1124	2091	14640	22843	0.00500 0.400	0.0100	0.0200	0.100	0.200

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

Lab Name: TestAmerica Edison Job No.: 460-170982-1 Analy Batch No.: 566141

SDG No.: EJ1815811.001

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/06/2018 11:43 Calibration End Date: 11/06/2018 13:32 Calibration ID: 71955

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[b]fluoranthene	PRY	Ave	503 48376	1271	1988	14282	22467	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[k]fluoranthene	PRY	Ave	461 55901	1332	2498	15911	25498	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[a]pyrene	PRY	Ave	492 48761	1213	2070	13796	22167	0.00500 0.400	0.0100	0.0200	0.100	0.200
Indeno[1,2,3-cd]pyrene	PRY	Ave	442 49563	1075	1957	13092	21468	0.00500 0.400	0.0100	0.0200	0.100	0.200
Dibenz(a,h)anthracene	PRY	Ave	366 46744	1021	1839	13041	21736	0.00500 0.400	0.0100	0.0200	0.100	0.200
Benzo[g,h,i]perylene	PRY	Ave	526 52242	1172	2108	14432	23956	0.00500 0.400	0.0100	0.0200	0.100	0.200
Nitrobenzene-d5	NPT	Ave	5389 415979	10684	20436	57462	50784	0.100 10.0	0.200	0.400	0.800	1.00
2-Fluorobiphenyl	ANT	Ave	10318 692026	20597	33974	105117	94037	0.100 10.0	0.200	0.400	0.800	1.00
2,4,6-Tribromophenol	ANT	Ave	1349 154233	2982	5694	18044	16167	0.100 10.0	0.200	0.400	0.800	1.00
Terphenyl-d14	CRY	Ave	5777 635312	13433	24140	71412	69665	0.100 10.0	0.200	0.400	0.800	1.00

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233748.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 06-Nov-2018 11:43:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0081522-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Nov-2018 16:41:01 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: johnstonm1 Date: 06-Nov-2018 12:03:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.753	1.753	0.000	96	4960	0.2000	0.2185	
2 N-Nitrosodimethylamine	74	1.978	1.978	0.000	100	3072	0.1000	0.1180	
3 Bis(2-chloroethyl)ether	93	4.102	4.102	0.000	95	981	0.0200	0.0194	
* 5 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	99	8562	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.891	4.891	0.000	97	20436	0.4000	0.4314	
* 7 Naphthalene-d8	136	5.583	5.583	0.000	99	27515	0.2000	0.2000	
8 Naphthalene	128	5.607	5.607	0.000	100	3346	0.0200	0.0209	
$ 9 2-Fluorobiphenyl	172	6.607	6.607	0.000	98	33974	0.4000	0.3907	
10 Acenaphthylene	152	7.107	7.107	0.000	100	3032	0.0200	0.0200	
* 11 Acenaphthene-d10	164	7.252	7.252	0.000	89	9973	0.2000	0.2000	
12 Acenaphthene	154	7.278	7.278	0.000	100	1680	0.0200	0.0213	
13 Fluorene	166	7.765	7.765	0.000	94	2170	0.0200	0.0211	
14 4,6-Dinitro-2-methylphenol	198	7.817	7.817	0.000	70	1107	0.2000	0.2173	
$ 20 2,4,6-Tribromophenol	330	8.002	8.002	0.000	83	5694	0.4000	0.3965	
15 Hexachlorobenzene	284	8.291	8.291	0.000	99	735	0.0200	0.0210	
16 Pentachlorophenol	266	8.475	8.475	0.000	98	1725	0.1000	0.1023	
* 17 Phenanthrene-d10	188	8.659	8.659	0.000	100	17310	0.2000	0.2000	
18 Phenanthrene	178	8.673	8.673	0.000	98	2798	0.0200	0.0198	M
19 Anthracene	178	8.725	8.725	0.000	99	2755	0.0200	0.0232	M
21 Fluoranthene	202	9.798	9.798	0.000	97	2578	0.0200	0.0206	
22 Pyrene	202	10.013	10.013	0.000	98	2748	0.0200	0.0214	
$ 23 Terphenyl-d14	244	10.179	10.179	0.000	95	24140	0.4000	0.4103	
24 Benzo[a]anthracene	228	11.270	11.270	0.000	85	2122	0.0200	0.0203	
* 25 Chrysene-d12	240	11.280	11.280	0.000	95	13767	0.2000	0.2000	
26 Chrysene	228	11.309	11.309	0.000	98	2091	0.0200	0.0204	
27 Benzo[b]fluoranthene	252	12.645	12.645	0.000	99	1988	0.0200	0.0192	
28 Benzo[k]fluoranthene	252	12.684	12.684	0.000	1	2498	0.0200	0.0220	
29 Benzo[a]pyrene	252	13.093	13.093	0.000	98	2070	0.0200	0.0202	
* 30 Perylene-d12	264	13.171	13.171	0.000	100	14880	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.731	14.731	0.000	90	1957	0.0200	0.0203	
32 Dibenz(a,h)anthracene	278	14.780	14.780	0.000	94	1839	0.0200	0.0202	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.150	15.150	0.000	83	2108	0.0200	0.0198	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL3_00012 Amount Added: 1.00 Units: mL

Report Date: 06-Nov-2018 16:41:03 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233748.D

Injection Date: 06-Nov-2018 11:43:30 Instrument ID: CBNAMS9

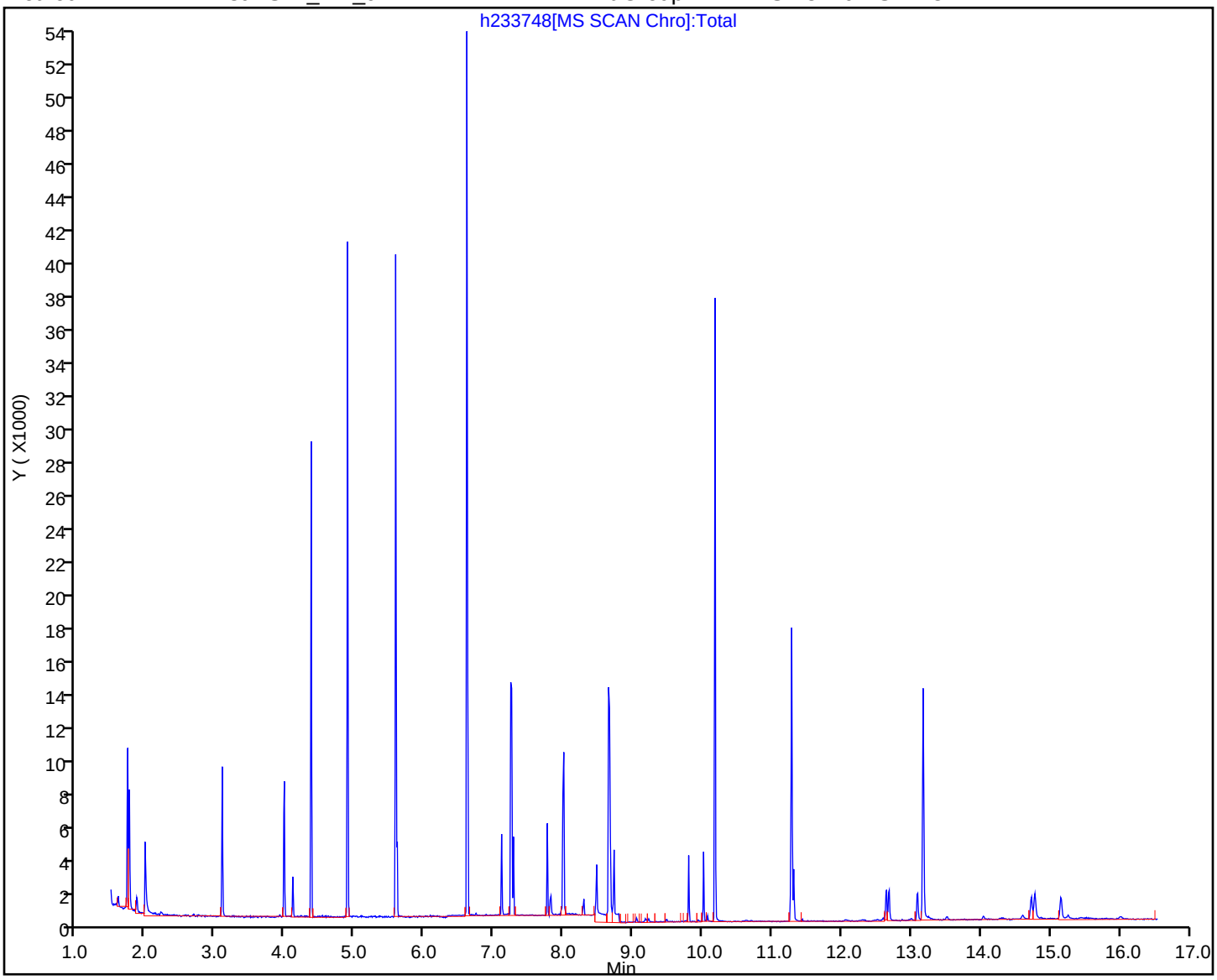
Lims ID: icis

Client ID:

Operator ID: ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233749.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Nov-2018 12:07:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0081522-003
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Nov-2018 16:41:06 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: johnstonm1 Date: 06-Nov-2018 12:26:44

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.745	1.753	-0.008	89	39428	2.00	1.76	
	2 N-Nitrosodimethylamine	74	1.962	1.978	-0.016	99	23799	1.00	0.9241	
	3 Bis(2-chloroethyl)ether	93	4.102	4.102	0.000	97	47631	1.00	0.9522	
*	5 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	99	8470	0.2000	0.2000	
$	6 Nitrobenzene-d5	82	4.891	4.891	0.000	99	415979	10.0	8.92	
*	7 Naphthalene-d8	136	5.583	5.583	0.000	99	27097	0.2000	0.2000	
	8 Naphthalene	128	5.607	5.607	0.000	100	64298	0.4000	0.4078	
$	9 2-Fluorobiphenyl	172	6.607	6.607	0.000	99	692026	10.0	8.05	
	10 Acenaphthylene	152	7.107	7.107	0.000	100	60055	0.4000	0.4004	
*	11 Acenaphthene-d10	164	7.239	7.252	-0.013	99	9864	0.2000	0.2000	
	12 Acenaphthene	154	7.278	7.278	0.000	97	31466	0.4000	0.4029	
	13 Fluorene	166	7.765	7.765	0.000	92	41571	0.4000	0.4090	
	14 4,6-Dinitro-2-methylphenol	198	7.818	7.817	0.001	77	17711	2.00	2.00	
$	20 2,4,6-Tribromophenol	330	8.002	8.002	0.000	84	154233	10.0	10.9	
	15 Hexachlorobenzene	284	8.291	8.291	0.000	100	34626	1.00	1.06	
	16 Pentachlorophenol	266	8.475	8.475	0.000	99	20715	1.00	1.29	
*	17 Phenanthrene-d10	188	8.646	8.659	-0.013	98	16486	0.2000	0.2000	
	18 Phenanthrene	178	8.673	8.673	0.001	95	56369	0.4000	0.4193	
	19 Anthracene	178	8.725	8.725	0.000	99	52628	0.4000	0.4650	
	21 Fluoranthene	202	9.798	9.798	0.000	96	54345	0.4000	0.4562	
	22 Pyrene	202	10.013	10.013	0.000	98	56995	0.4000	0.3902	
$	23 Terphenyl-d14	244	10.179	10.179	0.000	95	635312	10.0	9.50	
	24 Benzo[a]anthracene	228	11.271	11.270	0.000	12	46558	0.4000	0.3923	
*	25 Chrysene-d12	240	11.280	11.280	0.000	89	15648	0.2000	0.2000	
	26 Chrysene	228	11.310	11.309	0.001	99	46822	0.4000	0.4015	
	27 Benzo[b]fluoranthene	252	12.635	12.645	-0.010	100	48376	0.4000	0.4101	
	28 Benzo[k]fluoranthene	252	12.674	12.684	-0.010	98	55901	0.4000	0.4317	
	29 Benzo[a]pyrene	252	13.084	13.093	-0.009	100	48761	0.4000	0.4182	
*	30 Perylene-d12	264	13.171	13.171	0.000	100	16935	0.2000	0.2000	
	31 Indeno[1,2,3-cd]pyrene	276	14.722	14.731	-0.009	91	49563	0.4000	0.4509	
	32 Dibenz(a,h)anthracene	278	14.780	14.780	0.000	94	46744	0.4000	0.4516	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.150	15.150	0.000	80	52242	0.4000	0.4303	

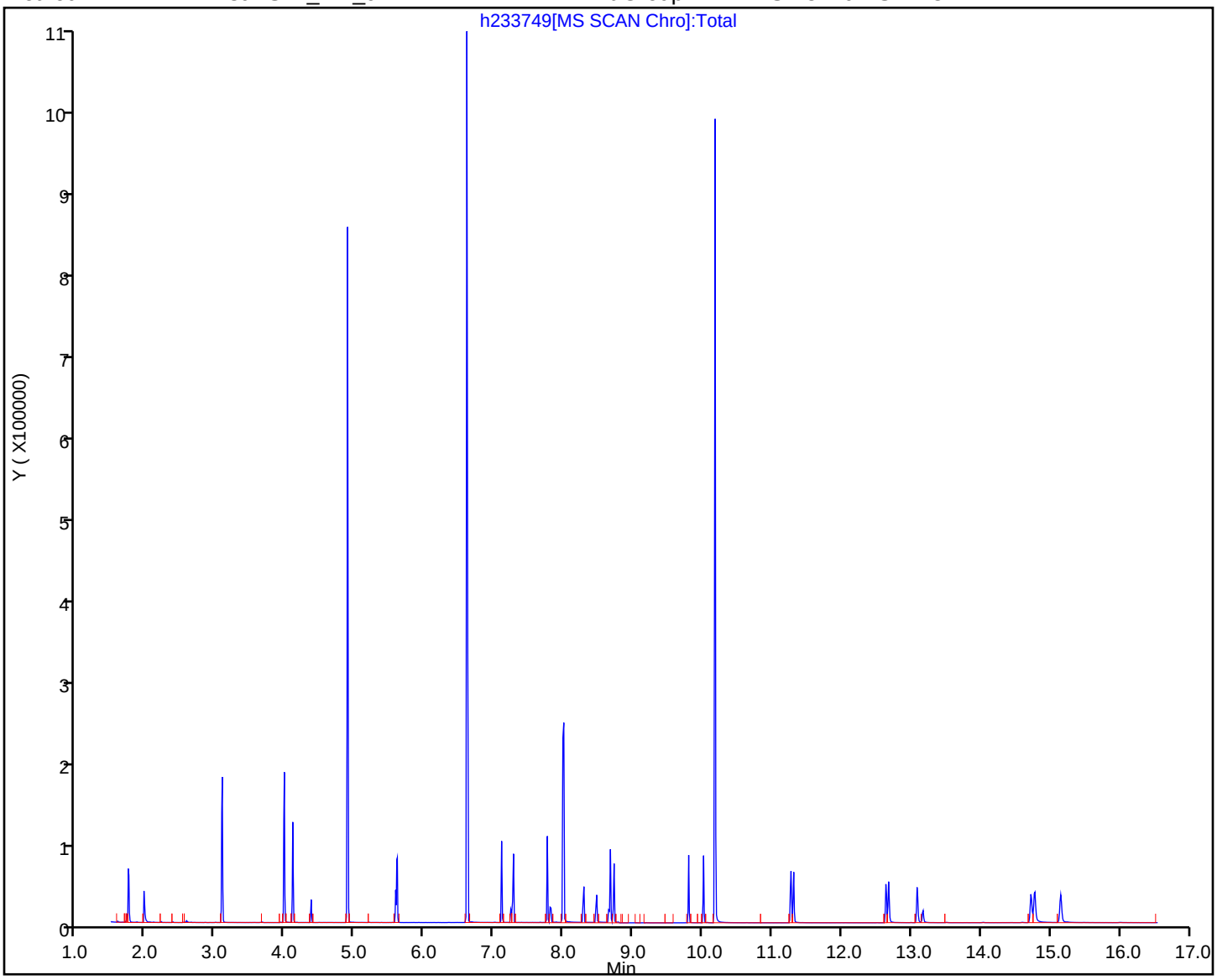
Reagents:

SM_simSlviL6_00011 Amount Added: 1.00 Units: mL

Report Date: 06-Nov-2018 16:41:07 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233749.D				
Injection Date:	06-Nov-2018 12:07:30	Instrument ID:	CBNAMS9		
Lims ID:	std6				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233750.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Nov-2018 12:28:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0081522-004
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Nov-2018 16:41:10 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: johnstonm1 Date: 06-Nov-2018 13:08:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.753	1.753	0.000	93	18074	0.8000	0.7218	
2 N-Nitrosodimethylamine	74	1.978	1.978	0.000	91	11030	0.4000	0.3840	
3 Bis(2-chloroethyl)ether	93	4.110	4.102	0.008	87	21251	0.4000	0.3809	
* 5 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	97	9447	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.891	4.891	0.000	95	50784	1.00	0.9680	
* 7 Naphthalene-d8	136	5.583	5.583	0.000	99	30472	0.2000	0.2000	
8 Naphthalene	128	5.607	5.607	0.000	100	32528	0.2000	0.1834	
$ 9 2-Fluorobiphenyl	172	6.607	6.607	0.000	98	94037	1.00	0.9893	
10 Acenaphthylene	152	7.107	7.107	0.000	100	31127	0.2000	0.1878	
* 11 Acenaphthene-d10	164	7.239	7.252	-0.013	99	10902	0.2000	0.2000	
12 Acenaphthene	154	7.278	7.278	0.000	96	15482	0.2000	0.1793	
13 Fluorene	166	7.765	7.765	0.000	93	20775	0.2000	0.1849	
14 4,6-Dinitro-2-methylphenol	198	7.817	7.817	0.000	79	5683	0.8000	0.8021	
$ 20 2,4,6-Tribromophenol	330	7.988	8.002	-0.014	99	16167	1.00	1.03	
15 Hexachlorobenzene	284	8.291	8.291	0.000	100	14985	0.4000	0.3950	
16 Pentachlorophenol	266	8.475	8.475	0.000	99	7905	0.4000	0.4257	
* 17 Phenanthrene-d10	188	8.646	8.659	-0.013	98	19065	0.2000	0.2000	
18 Phenanthrene	178	8.672	8.673	0.000	95	28652	0.2000	0.1843	
19 Anthracene	178	8.725	8.725	0.000	99	25137	0.2000	0.1921	
21 Fluoranthene	202	9.798	9.798	0.000	95	26599	0.2000	0.1931	
22 Pyrene	202	10.013	10.013	0.000	97	26856	0.2000	0.1734	
$ 23 Terphenyl-d14	244	10.179	10.179	0.000	94	69665	1.00	0.9822	
24 Benzo[a]anthracene	228	11.270	11.270	0.000	31	22080	0.2000	0.1754	
* 25 Chrysene-d12	240	11.280	11.280	0.000	95	16596	0.2000	0.2000	
26 Chrysene	228	11.309	11.309	0.000	99	22843	0.2000	0.1847	
27 Benzo[b]fluoranthene	252	12.635	12.645	-0.010	100	22467	0.2000	0.1810	
28 Benzo[k]fluoranthene	252	12.674	12.684	-0.010	100	25498	0.2000	0.1871	
29 Benzo[a]pyrene	252	13.084	13.093	-0.009	100	22167	0.2000	0.1807	
* 30 Perylene-d12	264	13.171	13.171	0.000	100	17822	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.721	14.731	-0.010	89	21468	0.2000	0.1856	
32 Dibenz(a,h)anthracene	278	14.770	14.780	-0.010	96	21736	0.2000	0.1996	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.150	15.150	0.000	79	23956	0.2000	0.1875	

Reagents:

SM_simSlviL5_00010 Amount Added: 1.00 Units: mL

Report Date: 06-Nov-2018 16:41:11 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233750.D

Injection Date: 06-Nov-2018 12:28:30 Instrument ID: CBNAMS9

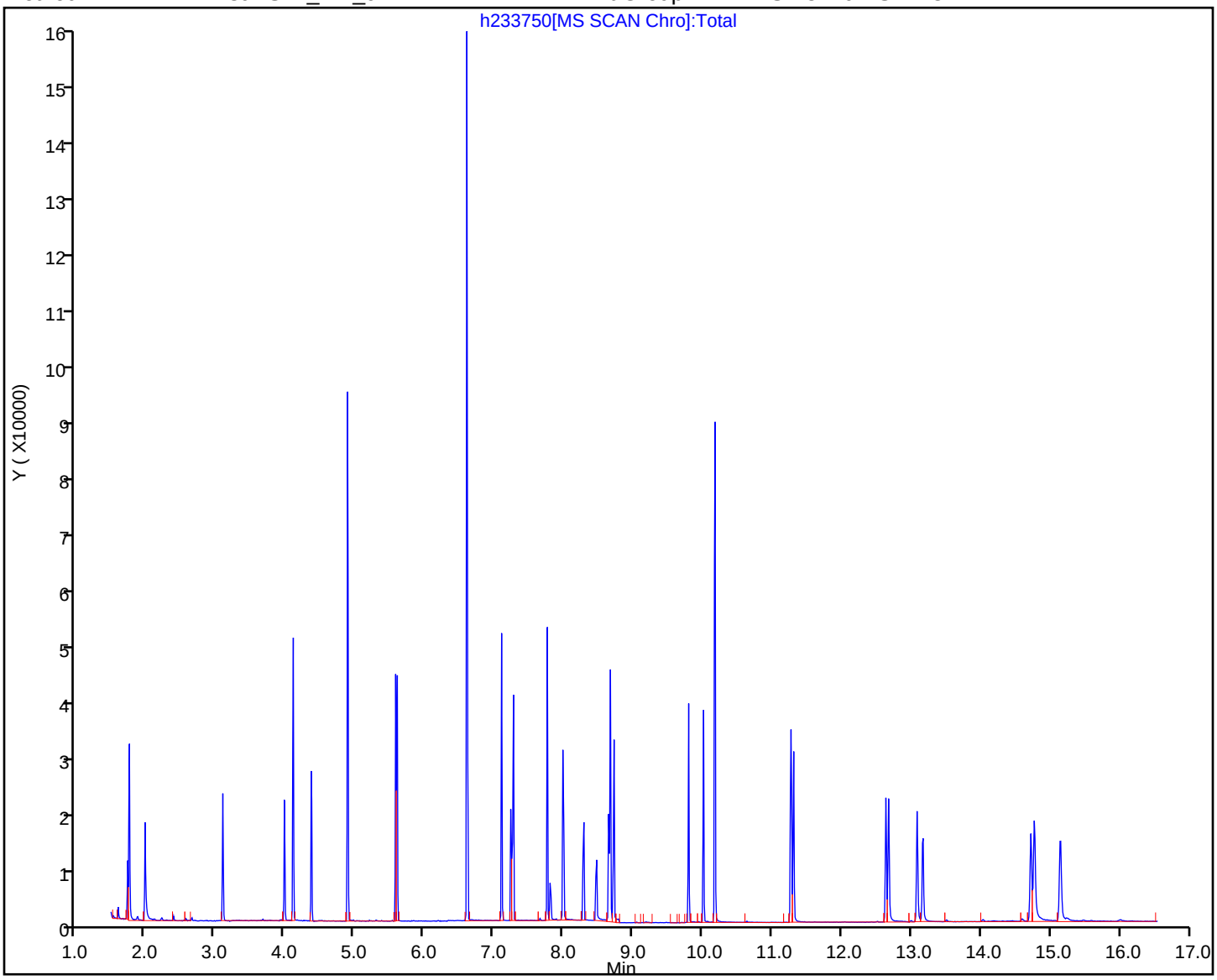
Lims ID: std5

Client ID:

Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233751.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Nov-2018 12:50:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0081522-005
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Nov-2018 16:41:15 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: johnstonm1 Date: 06-Nov-2018 13:38:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.753	1.753	0.000	97	12226	0.4000	0.3564	
2 N-Nitrosodimethylamine	74	1.978	1.978	0.000	98	7752	0.2000	0.1970	
3 Bis(2-chloroethyl)ether	93	4.110	4.102	0.008	87	14492	0.2000	0.1896	
* 5 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	97	12943	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.891	4.891	0.000	96	57462	0.8000	0.7985	
* 7 Naphthalene-d8	136	5.583	5.583	0.000	99	41796	0.2000	0.2000	
8 Naphthalene	128	5.607	5.607	0.000	100	22801	0.1000	0.0937	
$ 9 2-Fluorobiphenyl	172	6.607	6.607	0.000	98	105117	0.8000	0.7892	
10 Acenaphthylene	152	7.107	7.107	0.000	100	21345	0.1000	0.0919	
* 11 Acenaphthene-d10	164	7.239	7.252	-0.013	98	15276	0.2000	0.2000	
12 Acenaphthene	154	7.278	7.278	0.000	97	10343	0.1000	0.0855	
13 Fluorene	166	7.765	7.765	0.000	96	14298	0.1000	0.0908	
14 4,6-Dinitro-2-methylphenol	198	7.817	7.817	0.000	80	3290	0.4000	0.3886	
$ 20 2,4,6-Tribromophenol	330	7.988	8.002	-0.014	99	18044	0.8000	0.8204	
15 Hexachlorobenzene	284	8.291	8.291	0.000	100	10273	0.2000	0.1924	
16 Pentachlorophenol	266	8.475	8.475	0.000	99	4608	0.2000	0.1765	
* 17 Phenanthrene-d10	188	8.646	8.659	-0.013	99	26812	0.2000	0.2000	
18 Phenanthrene	178	8.672	8.673	0.000	95	19709	0.1000	0.0902	
19 Anthracene	178	8.725	8.725	0.000	99	16270	0.1000	0.0884	
21 Fluoranthene	202	9.798	9.798	0.000	95	17181	0.1000	0.0887	
22 Pyrene	202	10.013	10.013	0.000	97	17824	0.1000	0.0881	
$ 23 Terphenyl-d14	244	10.179	10.179	0.000	94	71412	0.8000	0.7712	
24 Benzo[a]anthracene	228	11.261	11.270	-0.009	7	14498	0.1000	0.0882	
* 25 Chrysene-d12	240	11.280	11.280	0.000	93	21667	0.2000	0.2000	
26 Chrysene	228	11.309	11.309	0.000	98	14640	0.1000	0.0907	
27 Benzo[b]fluoranthene	252	12.635	12.645	-0.010	100	14282	0.1000	0.0895	
28 Benzo[k]fluoranthene	252	12.674	12.684	-0.010	98	15911	0.1000	0.0908	
29 Benzo[a]pyrene	252	13.084	13.093	-0.009	100	13796	0.1000	0.0875	
* 30 Perylene-d12	264	13.162	13.171	-0.009	100	22907	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.721	14.731	-0.010	90	13092	0.1000	0.0881	
32 Dibenz(a,h)anthracene	278	14.770	14.780	-0.010	95	13041	0.1000	0.0932	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.150	15.150	0.000	79	14432	0.1000	0.0879	

Reagents:

SM_simSlviL4_00009 Amount Added: 1.00 Units: mL

Report Date: 06-Nov-2018 16:41:16 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233751.D

Injection Date: 06-Nov-2018 12:50:30 Instrument ID: CBNAMS9

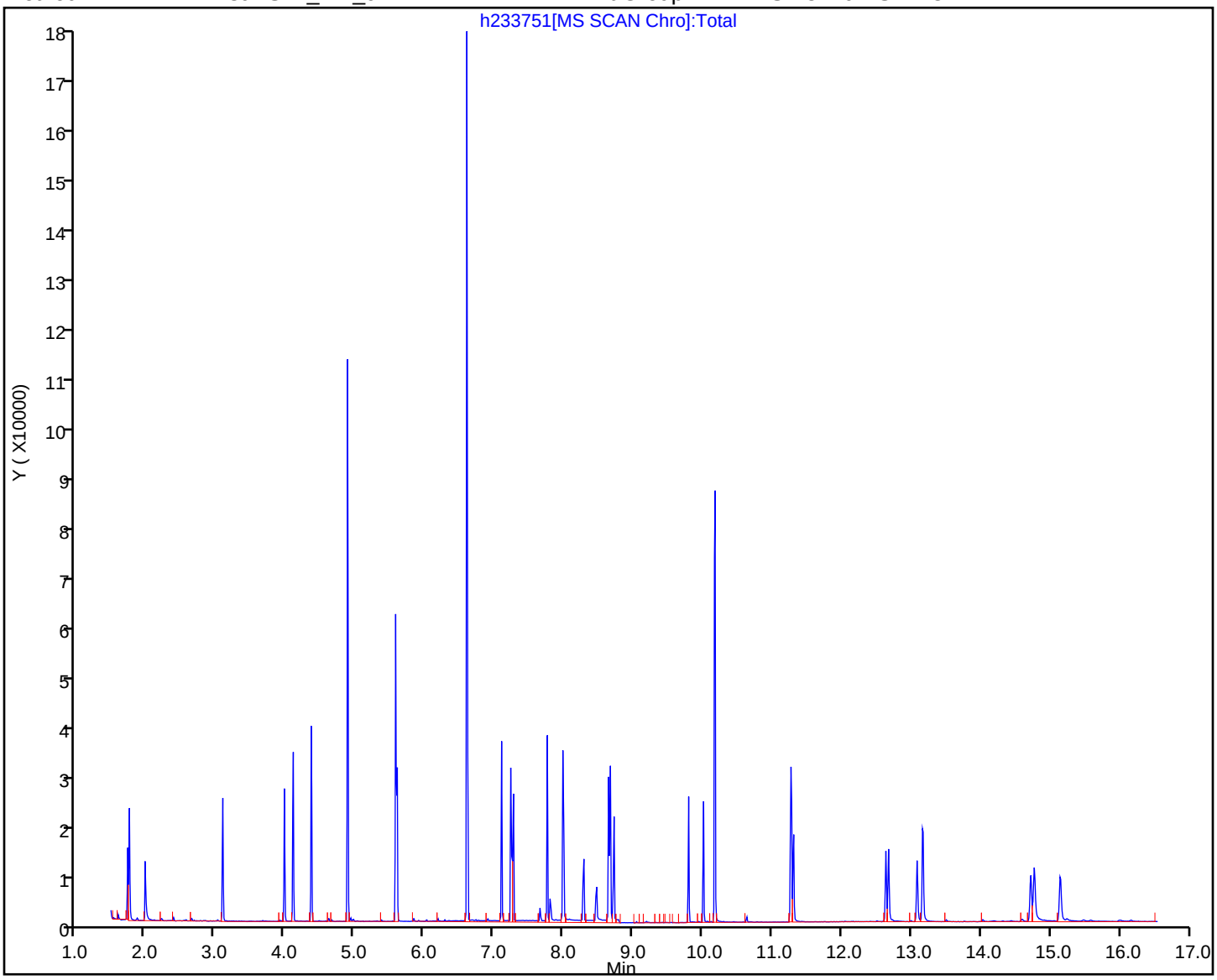
Lims ID: std4

Client ID:

Operator ID: ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233752.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Nov-2018 13:11:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0081522-006
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Nov-2018 16:41:19 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: johnstonm1 Date: 06-Nov-2018 13:48:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.761	1.753	0.008	92	2789	0.1000	0.1035	
2 N-Nitrosodimethylamine	74	1.994	1.978	0.016	86	1447	0.0500	0.0468	
3 Bis(2-chloroethyl)ether	93	4.110	4.102	0.008	94	276	0.005000	0.004595	
* 5 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	97	10170	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.891	4.891	0.000	96	10684	0.2000	0.1950	
* 7 Naphthalene-d8	136	5.583	5.583	0.000	99	31830	0.2000	0.2000	
8 Naphthalene	128	5.607	5.607	0.000	94	1888	0.0100	0.0102	
$ 9 2-Fluorobiphenyl	172	6.607	6.607	0.000	97	20597	0.2000	0.2160	
10 Acenaphthylene	152	7.107	7.107	0.000	100	1683	0.0100	0.0101	
* 11 Acenaphthene-d10	164	7.239	7.252	-0.013	98	10936	0.2000	0.2000	
12 Acenaphthene	154	7.278	7.278	0.000	96	914	0.0100	0.0106	
13 Fluorene	166	7.765	7.765	0.000	93	1136	0.0100	0.0101	
14 4,6-Dinitro-2-methylphenol	198	7.817	7.817	0.000	66	538	0.1000	0.0969	
$ 20 2,4,6-Tribromophenol	330	7.988	8.002	-0.014	96	2982	0.2000	0.1894	
15 Hexachlorobenzene	284	8.291	8.291	0.000	97	190	0.005000	0.004565	
16 Pentachlorophenol	266	8.475	8.475	0.000	100	893	0.0500	0.0470	
* 17 Phenanthrene-d10	188	8.646	8.659	-0.013	100	19526	0.2000	0.2000	
18 Phenanthrene	178	8.673	8.673	0.001	95	1625	0.0100	0.0102	M
19 Anthracene	178	8.725	8.725	0.000	97	1230	0.0100	0.009177	M
21 Fluoranthene	202	9.798	9.798	0.000	95	1408	0.0100	0.0100	
22 Pyrene	202	10.013	10.013	0.000	96	1468	0.0100	0.0101	
$ 23 Terphenyl-d14	244	10.179	10.179	0.000	93	13433	0.2000	0.2012	
24 Benzo[a]anthracene	228	11.261	11.270	-0.009	62	1258	0.0100	0.0106	
* 25 Chrysene-d12	240	11.280	11.280	0.000	92	15624	0.2000	0.2000	
26 Chrysene	228	11.309	11.309	0.000	89	1124	0.0100	0.009653	
27 Benzo[b]fluoranthene	252	12.635	12.645	-0.010	99	1271	0.0100	0.0108	
28 Benzo[k]fluoranthene	252	12.674	12.684	-0.010	89	1332	0.0100	0.0104	
29 Benzo[a]pyrene	252	13.084	13.093	-0.009	98	1213	0.0100	0.0105	
* 30 Perylene-d12	264	13.162	13.171	-0.009	100	16830	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.721	14.731	-0.010	83	1075	0.0100	0.009842	
32 Dibenz(a,h)anthracene	278	14.770	14.780	-0.010	94	1021	0.0100	0.0099	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.141	15.150	-0.009	78	1172	0.0100	0.009713	

QC Flag Legend

Review Flags

M - Manually Integrated

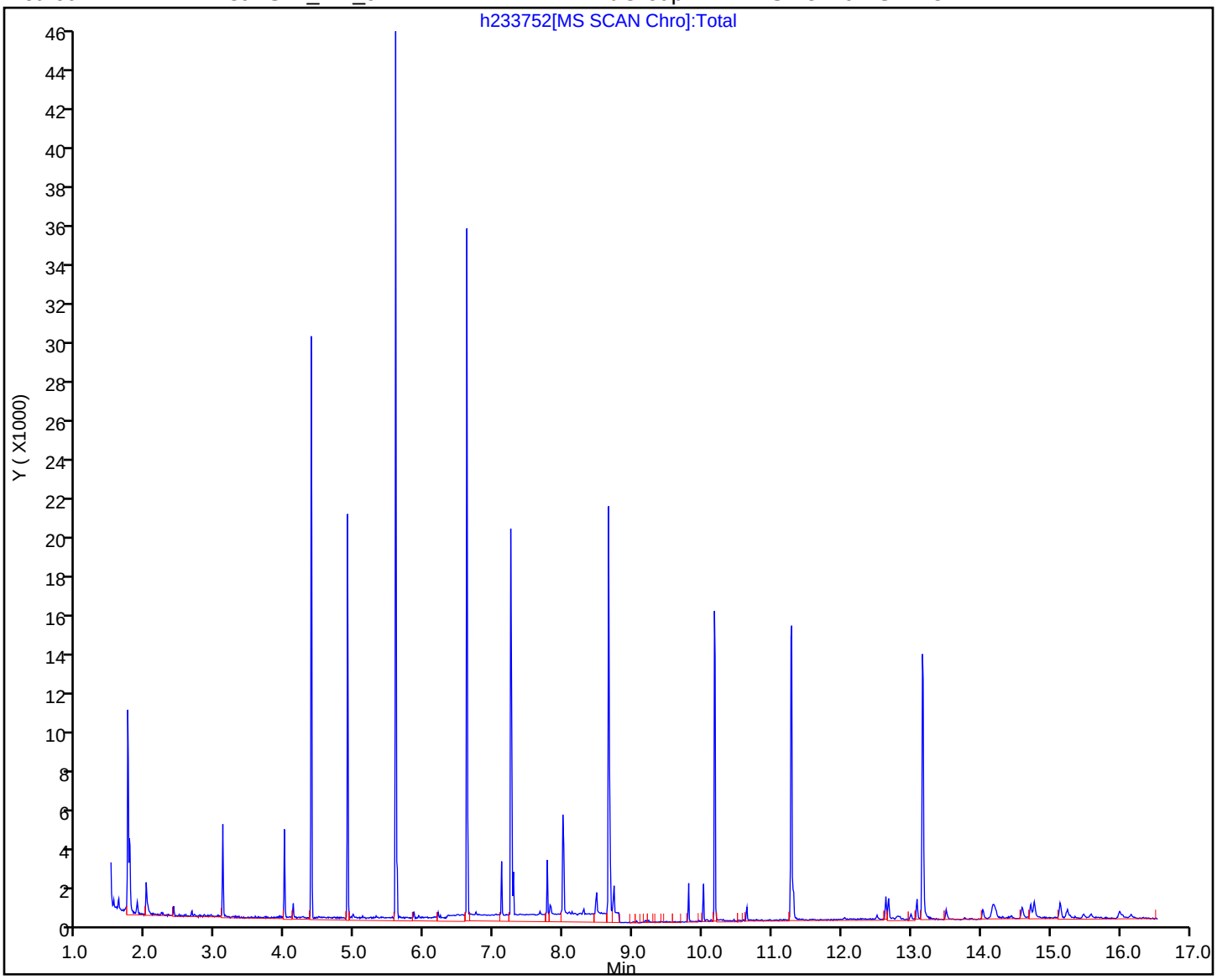
Reagents:

SM_simSlviL2_00010 Amount Added: 1.00 Units: mL

Report Date: 06-Nov-2018 16:41:20 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233752.D				
Injection Date:	06-Nov-2018 13:11:30	Instrument ID:	CBNAMS9		
Lims ID:	std2				
Client ID:					
Operator ID:		ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Nov-2018 13:32:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0081522-007
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Nov-2018 16:41:24 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: johnstonm1 Date: 06-Nov-2018 14:12:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.761	1.753	0.008	93	1131	0.0400	0.0481	
2 N-Nitrosodimethylamine	74	2.002	1.978	0.024	86	548	0.0200	0.0203	
3 Bis(2-chloroethyl)ether	93	4.110	4.102	0.008	86	132	0.002000	0.002517	
* 5 1,4-Dichlorobenzene-d4	152	4.368	4.368	0.000	97	8878	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.891	4.891	0.000	95	5389	0.1000	0.1089	
* 7 Naphthalene-d8	136	5.583	5.583	0.000	99	28746	0.2000	0.2000	
8 Naphthalene	128	5.607	5.607	0.000	94	888	0.005000	0.005309	
$ 9 2-Fluorobiphenyl	172	6.607	6.607	0.000	97	10318	0.1000	0.1163	
10 Acenaphthylene	152	7.107	7.107	0.000	100	874	0.005000	0.005647	
* 11 Acenaphthene-d10	164	7.239	7.252	-0.013	99	10178	0.2000	0.2000	
12 Acenaphthene	154	7.278	7.278	0.000	96	452	0.005000	0.005609	
13 Fluorene	166	7.765	7.765	0.000	95	567	0.005000	0.005406	
14 4,6-Dinitro-2-methylphenol	198	7.818	7.817	0.001	68	183	0.0400	0.0348	
$ 20 2,4,6-Tribromophenol	330	7.989	8.002	-0.013	96	1349	0.1000	0.0921	
15 Hexachlorobenzene	284	8.291	8.291	0.000	94	84	0.002000	0.002060	a
16 Pentachlorophenol	266	8.475	8.475	0.000	88	276	0.0200	0.0160	
* 17 Phenanthrene-d10	188	8.646	8.659	-0.013	98	17684	0.2000	0.2000	
18 Phenanthrene	178	8.673	8.673	0.001	95	805	0.005000	0.005583	
19 Anthracene	178	8.725	8.725	0.000	96	556	0.005000	0.004580	
21 Fluoranthene	202	9.798	9.798	0.000	95	625	0.005000	0.004892	
22 Pyrene	202	10.013	10.013	0.000	97	706	0.005000	0.006001	
$ 23 Terphenyl-d14	244	10.179	10.179	0.000	92	5777	0.1000	0.1072	
24 Benzo[a]anthracene	228	11.261	11.270	-0.009	77	565	0.005000	0.005911	
* 25 Chrysene-d12	240	11.280	11.280	0.000	92	12604	0.2000	0.2000	
26 Chrysene	228	11.309	11.309	0.000	97	555	0.005000	0.005909	
27 Benzo[b]fluoranthene	252	12.635	12.645	-0.010	98	503	0.005000	0.005655	
28 Benzo[k]fluoranthene	252	12.674	12.684	-0.010	86	461	0.005000	0.004721	
29 Benzo[a]pyrene	252	13.084	13.093	-0.009	99	492	0.005000	0.005596	
* 30 Perylene-d12	264	13.162	13.171	-0.009	100	12770	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.722	14.731	-0.009	83	442	0.005000	0.005333	
32 Dibenz(a,h)anthracene	278	14.770	14.780	-0.010	95	366	0.005000	0.004690	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.150	15.150	0.000	74	526	0.005000	0.005745	

QC Flag Legend

Review Flags

a - User Assigned ID

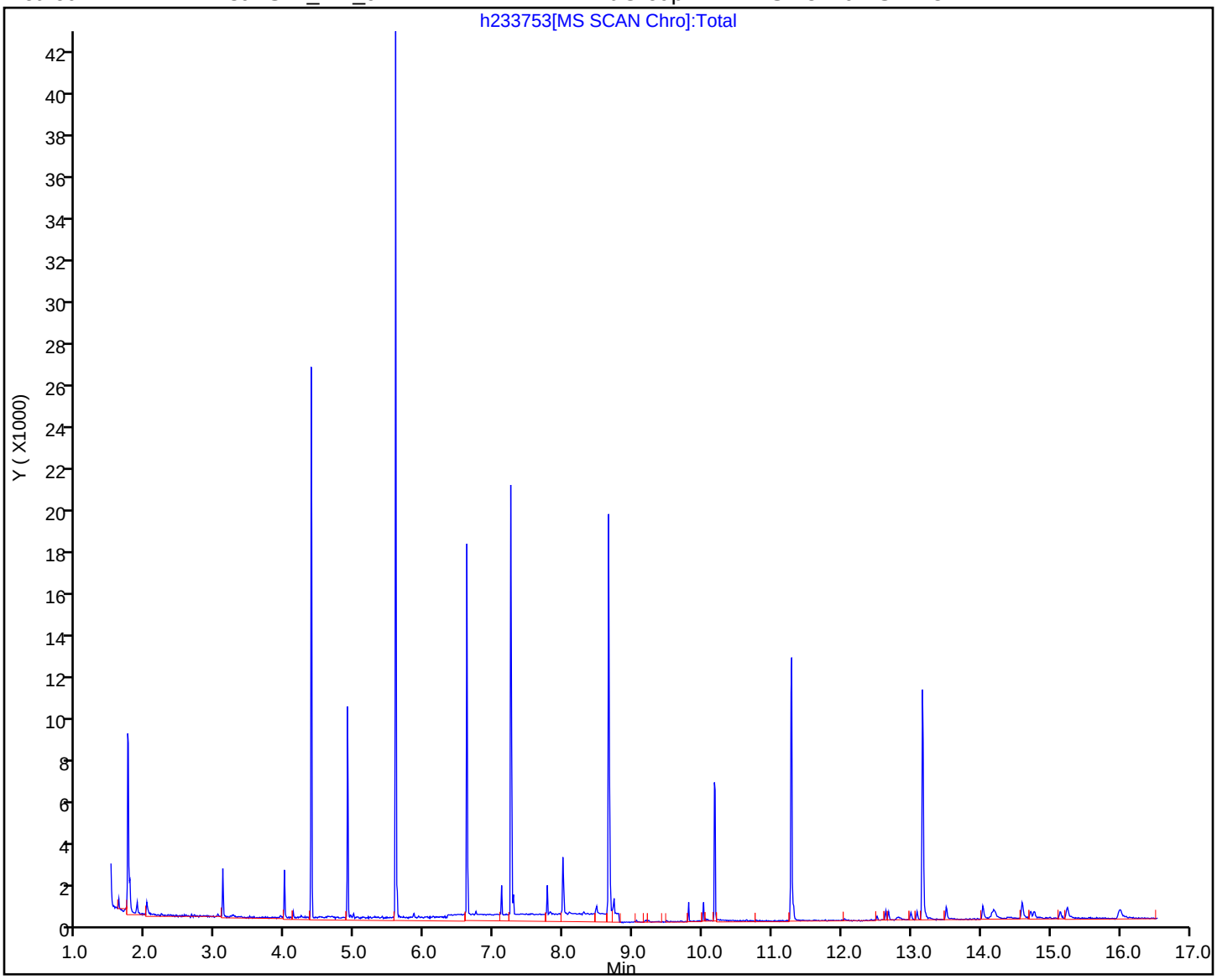
Reagents:

SM_simSlviL1_00010 Amount Added: 1.00 Units: mL

Report Date: 06-Nov-2018 16:41:25 Chrom Revision: 2.3 12-Oct-2018 08:24:38

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D				
Injection Date:	06-Nov-2018 13:32:30	Instrument ID:	CBNAMS9		
Lims ID:	std1				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-574646/2 Calibration Date: 12/10/2018 19:26

Instrument ID: CBNAMS9 Calib Start Date: 11/06/2018 11:43

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 11/06/2018 13:32

Lab File ID: h234788a.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5301	0.5029		190	200	-5.1	20.0
N-Nitrosodimethylamine	Ave	0.6081	0.6576		108	100	8.1	20.0
Bis(2-chloroethyl)ether	Ave	1.181	1.158	0.7000	19.6	20.0	-2.0	20.0
Naphthalene	Ave	1.164	1.195	0.7000	20.5	20.0	2.7	20.0
Acenaphthylene	Ave	3.041	2.408	0.9000	15.8	20.0	-20.8*	20.0
Acenaphthene	Ave	1.584	1.149	0.9000	14.5	20.0	-27.4*	20.0
Fluorene	Ave	2.061	1.542	0.9000	15.0	20.0	-25.2*	20.0
4,6-Dinitro-2-methylphenol	Qua		0.0726	0.0100	244	200	22.0*	20.0
Hexachlorobenzene	Lin2		0.3274	0.1000	16.1	20.0	-19.3	20.0
Pentachlorophenol	Ave	0.1948	0.2396	0.0500	123	100	23.0*	20.0
Phenanthrene	Ave	1.631	1.010	0.7000	12.4	20.0	-38.0*	20.0
Anthracene	Ave	1.373	1.092	0.7000	15.9	20.0	-20.5*	20.0
Fluoranthene	Ave	1.445	1.254	0.6000	17.4	20.0	-13.2	20.0
Pyrene	Ave	1.867	1.693	0.6000	18.1	20.0	-9.3	20.0
Benzo[a]anthracene	Ave	1.517	1.522	0.8000	20.1	20.0	0.4	20.0
Chrysene	Ave	1.490	1.459	0.7000	19.6	20.0	-2.1	20.0
Benzo[b]fluoranthene	Ave	1.393	1.335		19.2	20.0	-4.2	20.0
Benzo[k]fluoranthene	Ave	1.529	1.415	0.7000	18.5	20.0	-7.5	20.0
Benzo[a]pyrene	Ave	1.377	1.328	0.7000	19.3	20.0	-3.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.298	1.673	0.5000	25.8	20.0	28.9*	20.0
Dibenz(a,h)anthracene	Ave	1.222	1.600	0.4000	26.2	20.0	30.9*	20.0
Benzo[g,h,i]perylene	Ave	1.434	1.798	0.5000	25.1	20.0	25.4*	20.0

Report Date: 11-Dec-2018 08:24:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234788a.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Dec-2018 19:26:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083334-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 11-Dec-2018 08:24:39 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: eisam Date: 10-Dec-2018 19:47:47

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.513	1.513	0.000	91	4044	0.2000	0.1897	
	2 N-Nitrosodimethylamine	74	1.738	1.738	0.000	91	2644	0.1000	0.1081	
	3 Bis(2-chloroethyl)ether	93	3.822	3.822	0.000	98	931	0.0200	0.0196	
*	5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	98	8042	0.2000	0.2000	
$	6 Nitrobenzene-d5	82	4.619	4.619	0.000	98	19663	0.4000	0.4391	
*	7 Naphthalene-d8	136	5.310	5.310	0.000	98	26008	0.2000	0.2000	
	8 Naphthalene	128	5.327	5.327	0.000	100	3109	0.0200	0.0205	
$	9 2-Fluorobiphenyl	172	6.337	6.337	0.000	99	31479	0.4000	0.2815	
	10 Acenaphthylene	152	6.837	6.837	0.000	100	3088	0.0200	0.0158	
*	11 Acenaphthene-d10	164	6.969	6.969	0.000	94	12824	0.2000	0.2000	
	12 Acenaphthene	154	6.995	6.995	0.000	86	1474	0.0200	0.0145	
	13 Fluorene	166	7.495	7.495	0.000	98	1977	0.0200	0.0150	
	14 4,6-Dinitro-2-methylphenol	198	7.548	7.548	0.000	84	1762	0.2000	0.2439	
$	20 2,4,6-Tribromophenol	330	7.732	7.732	0.000	75	7462	0.4000	0.4041	
	15 Hexachlorobenzene	284	8.008	8.008	0.000	99	795	0.0200	0.0161	M
	16 Pentachlorophenol	266	8.205	8.205	0.000	94	2910	0.1000	0.1230	
*	17 Phenanthrene-d10	188	8.376	8.376	0.000	100	24286	0.2000	0.2000	
	18 Phenanthrene	178	8.403	8.403	0.000	94	2454	0.0200	0.0124	
	19 Anthracene	178	8.442	8.442	0.000	99	2651	0.0200	0.0159	
	21 Fluoranthene	202	9.522	9.522	0.000	92	3046	0.0200	0.0174	
	22 Pyrene	202	9.727	9.727	0.000	99	3228	0.0200	0.0181	
$	23 Terphenyl-d14	244	9.902	9.902	0.000	94	31284	0.4000	0.3840	
	24 Benzo[a]anthracene	228	10.936	10.936	0.000	83	2902	0.0200	0.0201	
*	25 Chrysene-d12	240	10.945	10.945	0.000	93	19062	0.2000	0.2000	
	26 Chrysene	228	10.975	10.975	0.000	98	2782	0.0200	0.0196	
	27 Benzo[b]fluoranthene	252	12.222	12.222	0.000	98	3194	0.0200	0.0192	
	28 Benzo[k]fluoranthene	252	12.261	12.261	0.000	97	3385	0.0200	0.0185	
	29 Benzo[a]pyrene	252	12.651	12.651	0.000	99	3178	0.0200	0.0193	
*	30 Perylene-d12	264	12.729	12.729	0.000	99	23927	0.2000	0.2000	
	31 Indeno[1,2,3-cd]pyrene	276	14.192	14.192	0.000	80	4003	0.0200	0.0258	
	32 Dibenz(a,h)anthracene	278	14.240	14.240	0.000	92	3829	0.0200	0.0262	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.562	14.562	0.000	78	4302	0.0200	0.0251	

QC Flag Legend

Review Flags

M - Manually Integrated

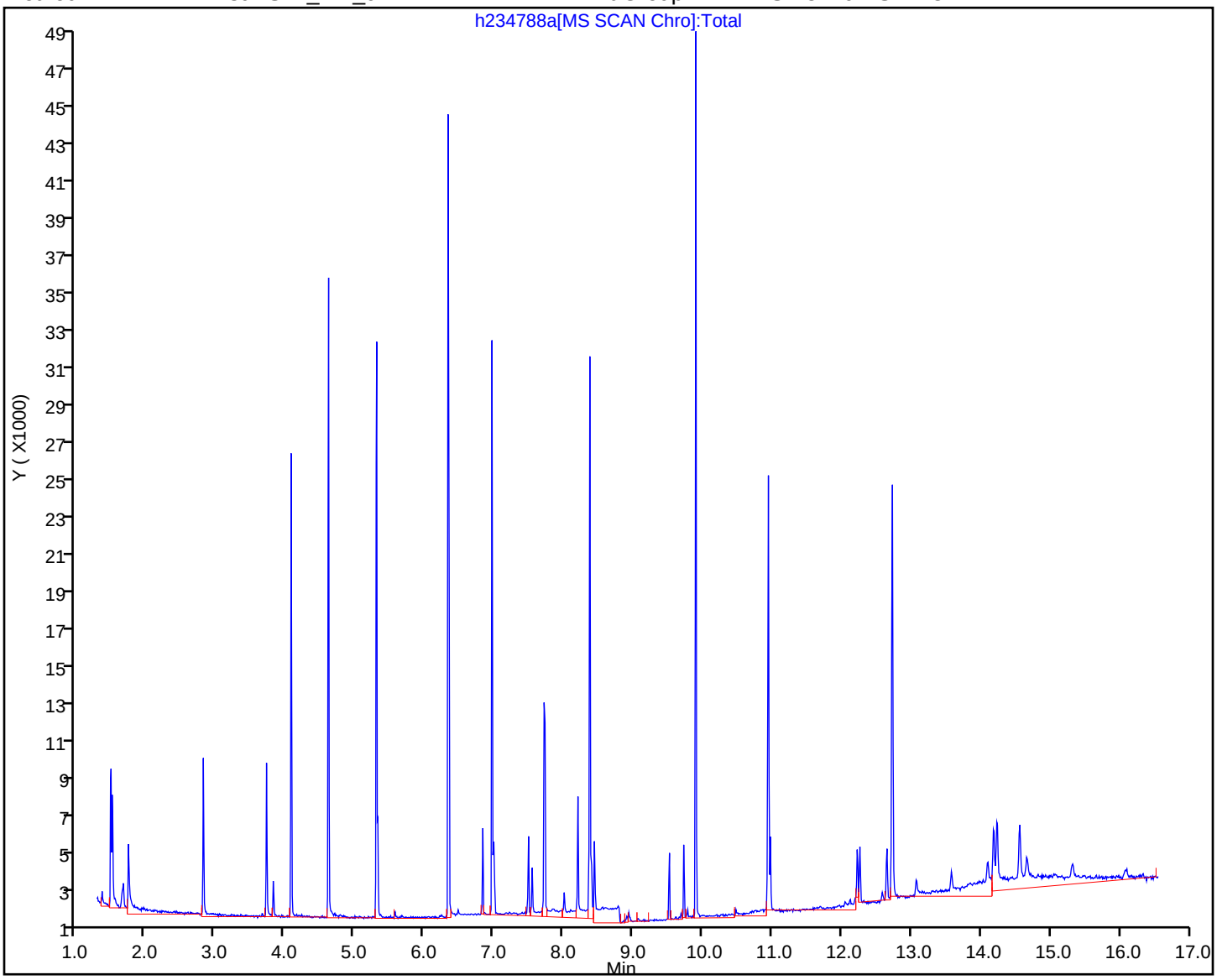
Reagents:

SM_simSlviL3_00012 Amount Added: 1.00 Units: mL

Report Date: 11-Dec-2018 08:24:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234788a.D				
Injection Date:	10-Dec-2018 19:26:30	Instrument ID:	CBNAMS9		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: CCVIS 460-575972/2 Calibration Date: 12/15/2018 01:27

Instrument ID: CBNAMS9 Calib Start Date: 11/06/2018 11:43

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 11/06/2018 13:32

Lab File ID: h234952.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5301	0.4421		167	200	-16.6	20.0
N-Nitrosodimethylamine	Ave	0.6081	0.5934		97.6	100	-2.4	20.0
Bis(2-chloroethyl)ether	Ave	1.181	0.9566	0.7000	16.2	20.0	-19.0	20.0
Naphthalene	Ave	1.164	1.171	0.7000	20.1	20.0	0.6	20.0
Acenaphthylene	Ave	3.041	1.836	0.9000	12.1	20.0	-39.6*	20.0
Acenaphthene	Ave	1.584	1.263	0.9000	16.0	20.0	-20.2*	20.0
Fluorene	Ave	2.061	1.267	0.9000	12.3	20.0	-38.5*	20.0
4,6-Dinitro-2-methylphenol	Qua		0.0743	0.0100	249	200	24.7*	20.0
Hexachlorobenzene	Lin2		0.4516	0.1000	22.4	20.0	11.9	20.0
Pentachlorophenol	Ave	0.1948	0.1788	0.0500	91.8	100	-8.2	20.0
Phenanthrene	Ave	1.631	1.328	0.7000	16.3	20.0	-18.6	20.0
Anthracene	Ave	1.373	1.435	0.7000	20.9	20.0	4.5	20.0
Fluoranthene	Ave	1.445	1.399	0.6000	19.4	20.0	-3.2	20.0
Pyrene	Ave	1.867	1.568	0.6000	16.8	20.0	-16.0	20.0
Benzo[a]anthracene	Ave	1.517	1.413	0.8000	18.6	20.0	-6.9	20.0
Chrysene	Ave	1.490	1.549	0.7000	20.8	20.0	3.9	20.0
Benzo[b]fluoranthene	Ave	1.393	1.291		18.5	20.0	-7.3	20.0
Benzo[k]fluoranthene	Ave	1.529	1.558	0.7000	20.4	20.0	1.9	20.0
Benzo[a]pyrene	Ave	1.377	1.273	0.7000	18.5	20.0	-7.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.298	1.330	0.5000	20.5	20.0	2.4	20.0
Dibenz(a,h)anthracene	Ave	1.222	1.247	0.4000	20.4	20.0	2.1	20.0
Benzo[g,h,i]perylene	Ave	1.434	1.585	0.5000	22.1	20.0	10.5	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234952.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Dec-2018 01:27:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083603-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 17-Dec-2018 08:39:27 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: hamziy Date: 15-Dec-2018 01:48:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.521	1.521	0.000	99	2690	0.2000	0.1668	
2 N-Nitrosodimethylamine	74	1.754	1.754	0.000	84	1805	0.1000	0.0976	
3 Bis(2-chloroethyl)ether	93	3.822	3.822	0.000	94	582	0.0200	0.0162	
* 5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	98	6084	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.610	4.610	0.000	93	11804	0.4000	0.3683	
* 7 Naphthalene-d8	136	5.302	5.302	0.000	100	18616	0.2000	0.2000	
8 Naphthalene	128	5.326	5.326	0.000	100	2179	0.0200	0.0201	
$ 9 2-Fluorobiphenyl	172	6.337	6.337	0.000	96	29611	0.4000	0.3508	
10 Acenaphthylene	152	6.837	6.837	0.000	100	1778	0.0200	0.0121	
* 11 Acenaphthene-d10	164	6.968	6.968	0.000	92	9682	0.2000	0.2000	
12 Acenaphthene	154	6.995	6.995	0.000	90	1223	0.0200	0.0160	
13 Fluorene	166	7.495	7.495	0.000	96	1227	0.0200	0.0123	
14 4,6-Dinitro-2-methylphenol	198	7.547	7.547	0.000	80	1083	0.2000	0.2494	
$ 20 2,4,6-Tribromophenol	330	7.718	7.718	0.000	96	5363	0.4000	0.3847	
15 Hexachlorobenzene	284	8.008	8.008	0.000	100	658	0.0200	0.0224	
16 Pentachlorophenol	266	8.205	8.205	0.000	97	1303	0.1000	0.0918	
* 17 Phenanthrene-d10	188	8.376	8.376	0.000	100	14572	0.2000	0.2000	
18 Phenanthrene	178	8.389	8.389	0.000	94	1935	0.0200	0.0163	
19 Anthracene	178	8.442	8.442	0.000	100	2091	0.0200	0.0209	
21 Fluoranthene	202	9.512	9.512	0.000	96	2038	0.0200	0.0194	
22 Pyrene	202	9.726	9.726	0.000	96	2056	0.0200	0.0168	
$ 23 Terphenyl-d14	244	9.892	9.892	0.000	99	22073	0.4000	0.3940	
24 Benzo[a]anthracene	228	10.926	10.926	0.000	45	1852	0.0200	0.0186	
* 25 Chrysene-d12	240	10.935	10.935	0.000	98	13109	0.2000	0.2000	
26 Chrysene	228	10.965	10.965	0.000	96	2031	0.0200	0.0208	
27 Benzo[b]fluoranthene	252	12.212	12.212	0.000	99	2106	0.0200	0.0185	
28 Benzo[k]fluoranthene	252	12.251	12.251	0.000	90	2542	0.0200	0.0204	
29 Benzo[a]pyrene	252	12.641	12.641	0.000	100	2076	0.0200	0.0185	
* 30 Perylene-d12	264	12.719	12.719	0.000	100	16313	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.172	14.172	0.000	89	2169	0.0200	0.0205	
32 Dibenz(a,h)anthracene	278	14.221	14.221	0.000	93	2035	0.0200	0.0204	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.552	14.552	0.000	76	2585	0.0200	0.0221	

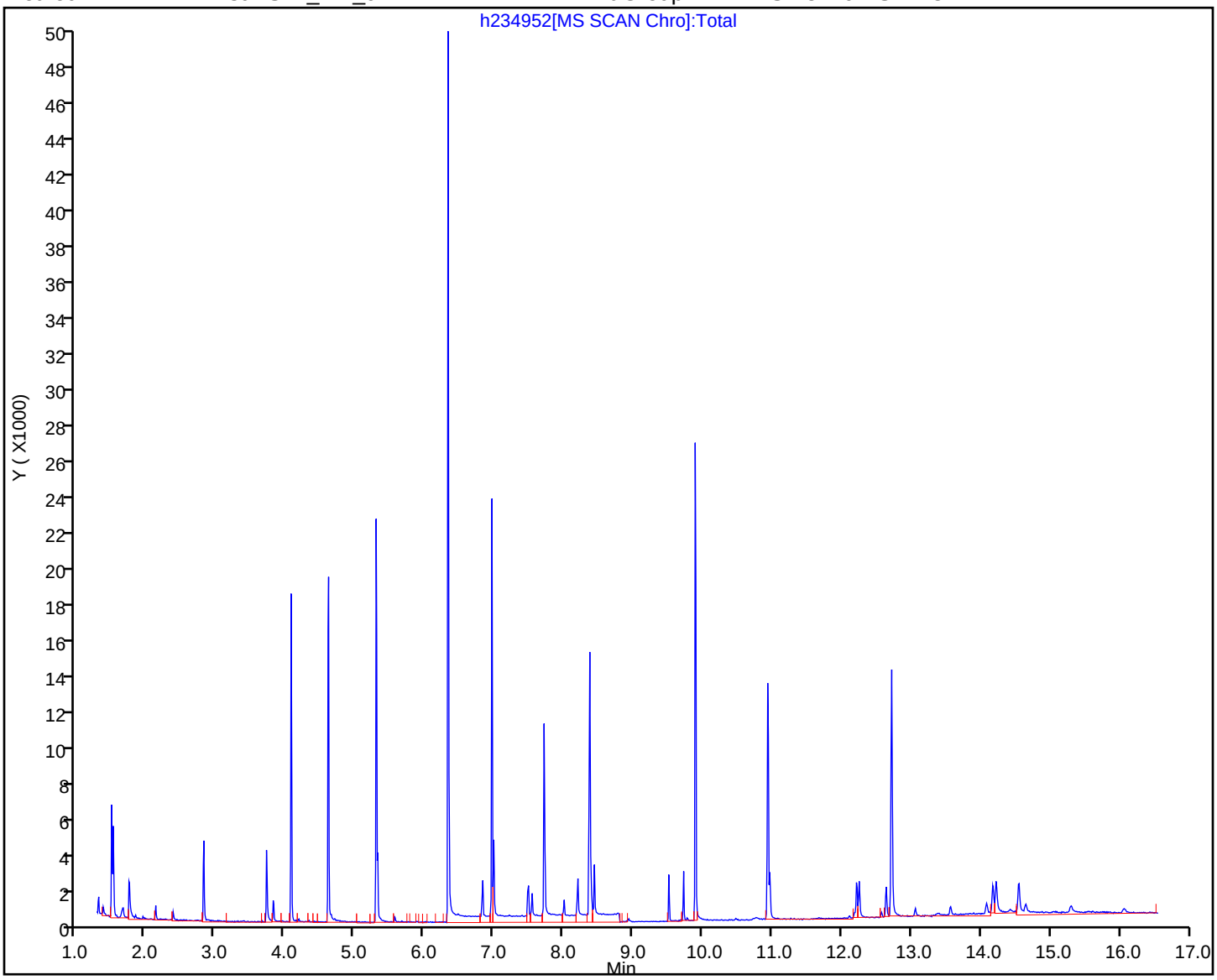
Reagents:

SM_simSlviL3_00012 Amount Added: 1.00 Units: mL

Report Date: 17-Dec-2018 08:39:28 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234952.D				
Injection Date:	15-Dec-2018 01:27:30	Instrument ID:	CBNAMS9		
Lims ID:	ccvis				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233747.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Nov-2018 11:03:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0081522-001
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 06-Nov-2018 16:25:26 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0323

First Level Reviewer: johnstonm1 Date: 06-Nov-2018 11:25:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	5.108	5.108	0.000	0	203692	NR	NR	
35 DFTPP									
36 Benzidine_T	184	6.855	6.855	0.000	0	1004071	NR	NR	
39 4,4'-DDT	235	7.791	7.791	0.000	0	395524	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

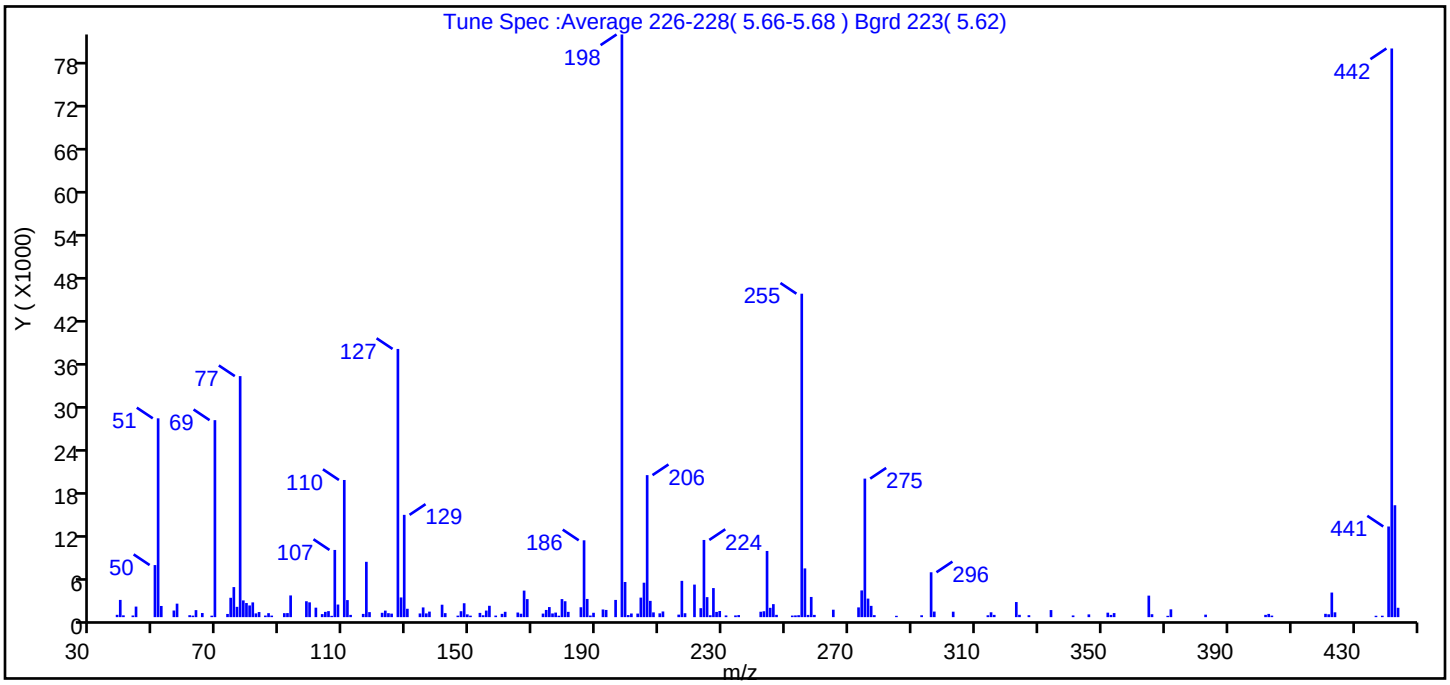
SMDFTP_CH_00026 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233747.D
Injection Date: 06-Nov-2018 11:03:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	34.1
68	<2% of mass 69	0.3 (0.7)
69	Present	33.8
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	46.0
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.0
275	10-30% of mass 198	23.8
365	>1% of mass 198	3.7
441	Present but less than mass 443	15.6 (81.0)
442	>40% of mass 198	97.6
443	17-23% of mass 442	19.2 (19.7)

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233747.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 06-Nov-2018 11:03:30
Spectrum: Tune Spec :Average 226-228(5.66-5.68) Bgrd 223(5.62)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 177

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	326	116.00	455	188.00	225	265.00	1041
39.00	2410	117.00	7739	189.00	610	273.00	1365
40.00	252	118.00	703	192.00	1072	274.00	3738
43.00	231	122.00	607	193.00	1007	275.00	19376
44.00	1476	123.00	913	196.00	2409	276.00	2595
50.00	7284	124.00	555	198.00	81496	277.00	1577
51.00	27808	125.00	492	199.00	4917	278.00	279
52.00	1562	127.00	37512	200.00	293	285.00	189
56.00	927	128.00	2755	201.00	511	293.00	262
57.00	1888	129.00	14309	203.00	500	296.00	6276
61.00	273	130.00	1171	204.00	2730	297.00	780
62.00	215	134.00	516	205.00	4817	303.00	764
63.00	981	135.00	1359	206.00	19864	314.00	263
65.00	576	136.00	525	207.00	2276	315.00	681
68.00	206	137.00	774	208.00	667	316.00	316
69.00	27552	141.00	1739	210.00	530	323.00	2113
73.00	447	142.00	561	211.00	795	324.00	324
74.00	2708	146.00	210	216.00	352	327.00	271
75.00	4203	147.00	830	217.00	5076	334.00	991
76.00	1440	148.00	1943	218.00	546	341.00	238
77.00	33712	149.00	387	221.00	4553	346.00	385
78.00	2341	150.00	209	223.00	1255	352.00	625
79.00	1975	153.00	595	224.00	10797	353.00	310
80.00	1636	154.00	264	225.00	2797	354.00	568
81.00	2064	155.00	920	226.00	266	365.00	3010
82.00	526	156.00	1588	227.00	4065	366.00	410
83.00	714	158.00	219	228.00	731	371.00	186
85.00	221	160.00	460	229.00	858	372.00	1092
86.00	558	161.00	748	231.00	237	383.00	347
87.00	217	165.00	646	234.00	239	402.00	319
91.00	556	166.00	478	235.00	286	403.00	453
92.00	569	167.00	3712	242.00	756	404.00	215
93.00	3036	168.00	2524	243.00	827	421.00	465

Report Date: 06-Nov-2018 16:25:27 Chrom Revision: 2.3 12-Oct-2018 08:24:38
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233747.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 06-Nov-2018 11:03:30
Spectrum: Tune Spec :Average 226-228(5.66-5.68) Bgrd 223(5.62)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 177

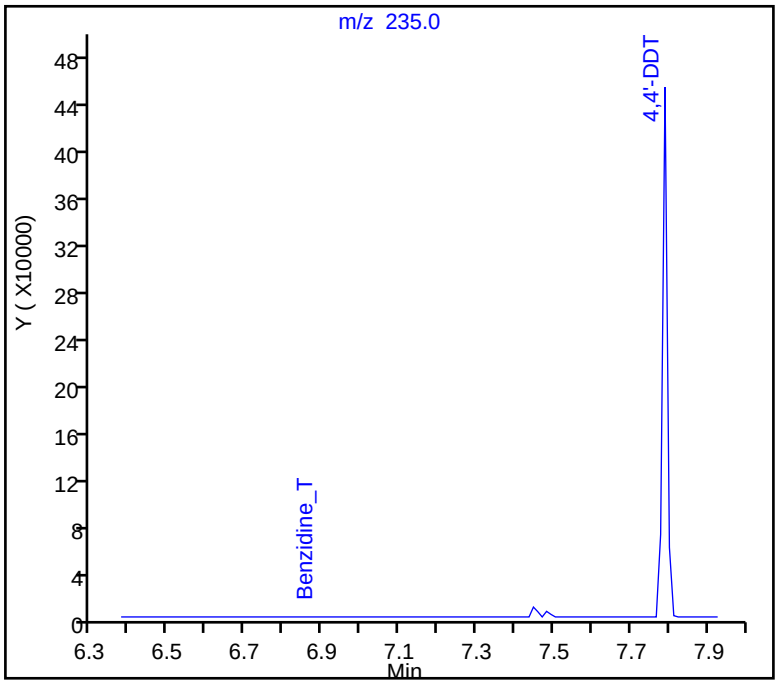
m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	2225	173.00	496	244.00	9255	422.00	400
99.00	2071	174.00	1005	245.00	1304	423.00	3440
101.00	1326	175.00	1409	246.00	1819	424.00	674
103.00	424	176.00	518	247.00	322	437.00	194
104.00	739	177.00	637	252.00	220	439.00	200
105.00	842	178.00	201	253.00	241	441.00	12679
106.00	185	179.00	2526	254.00	273	442.00	79536
107.00	9399	180.00	2224	255.00	45240	443.00	15651
108.00	1763	181.00	740	256.00	6817	444.00	1311
110.00	19184	185.00	1383	257.00	312		
111.00	2385	186.00	10747	258.00	2823		
112.00	316	187.00	2546	259.00	314		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233747.D
Injection Date: 06-Nov-2018 11:03:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

39 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 395524
37 4,4'-DDD, Area = 0
38 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

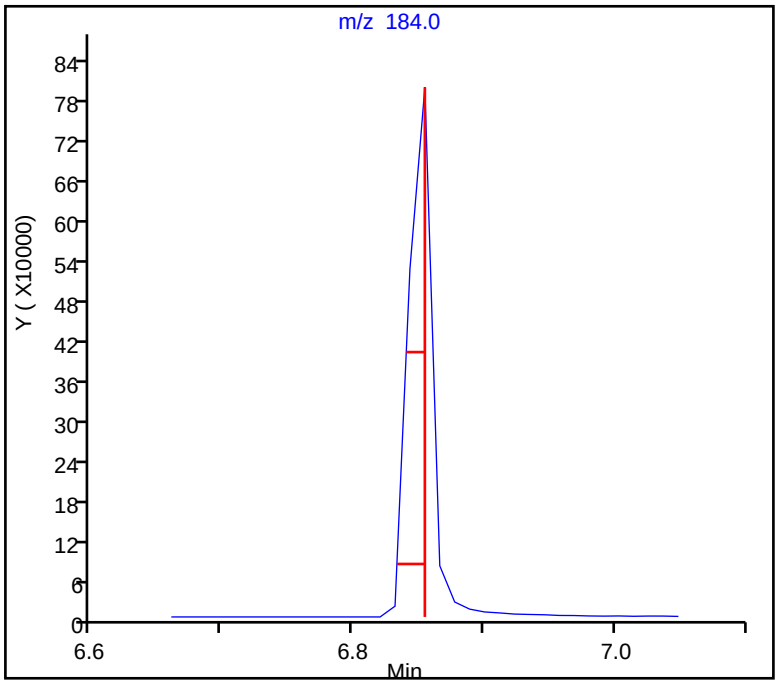
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233747.D
Injection Date: 06-Nov-2018 11:03:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.000 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

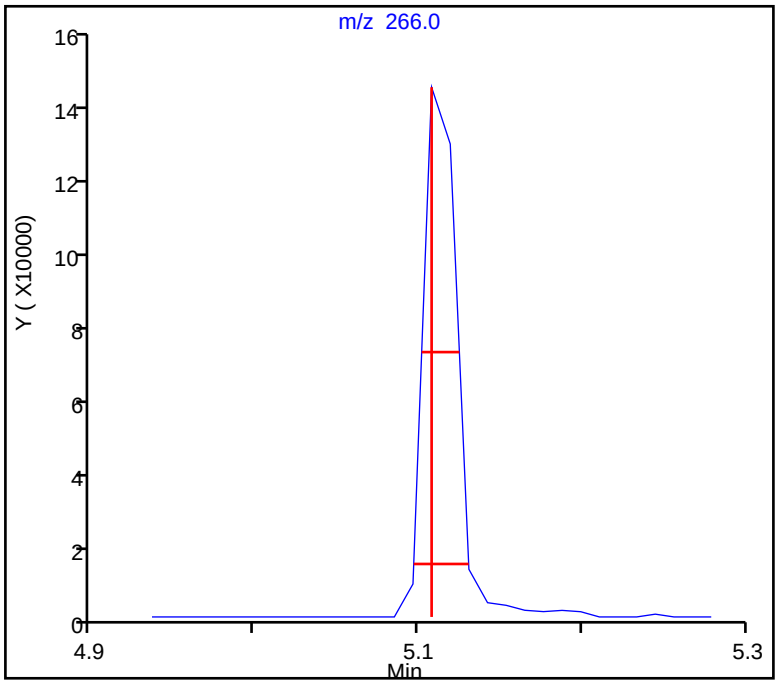
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233747.D
Injection Date: 06-Nov-2018 11:03:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.011 (min.)

Tailing Factor = * 2.1, Max. Tailing < 2.00
Failed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234787.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 10-Dec-2018 18:33:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083334-001
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 11-Dec-2018 08:24:37 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: eisam Date: 10-Dec-2018 18:51:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	4.779	4.779	0.000	0	59320	NR	NR	
35 DFTPP									
36 Benzidine_T	184	6.530	6.530	0.000	0	239858	NR	NR	
37 4,4'-DDD	235	7.159	7.159	0.000	0	891		NR	
39 4,4'-DDT	235	7.464	7.464	0.000	0	101513	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

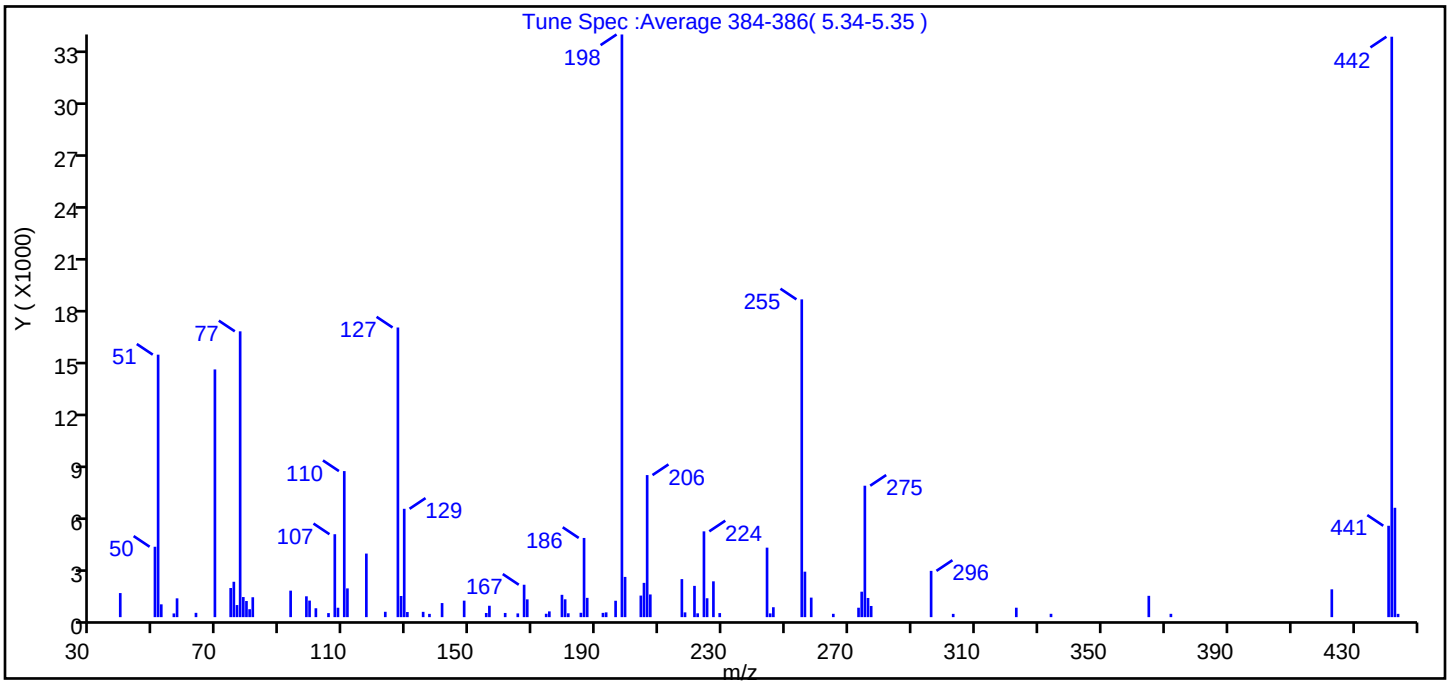
SMDFTP_CH_00026 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234787.D
Injection Date: 10-Dec-2018 18:33:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	45.0
68	<2% of mass 69	0.0 (0.0)
69	Present	42.5
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	49.7
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-30% of mass 198	22.6
365	>1% of mass 198	3.7
441	Present but less than mass 443	15.7 (83.6)
442	>40% of mass 198	99.6
443	17-23% of mass 442	18.8 (18.8)

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234787.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 10-Dec-2018 18:33:30
Spectrum: Tune Spec :Average 384-386(5.34-5.35)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1370	110.00	8310	185.00	248	255.00	18080
50.00	4005	111.00	1636	186.00	4506	256.00	2587
51.00	14934	117.00	3617	187.00	1097	258.00	1112
52.00	729	123.00	305	192.00	243	265.00	190
56.00	211	127.00	16480	193.00	272	273.00	536
57.00	1070	128.00	1203	196.00	933	274.00	1448
63.00	245	129.00	6165	198.00	33152	275.00	7478
69.00	14094	130.00	291	199.00	2289	276.00	1091
74.00	1657	135.00	302	204.00	1227	277.00	635
75.00	2013	137.00	186	205.00	1950	296.00	2633
76.00	688	141.00	801	206.00	8083	303.00	186
77.00	16262	148.00	938	207.00	1291	323.00	537
78.00	1143	155.00	236	217.00	2164	334.00	190
79.00	917	156.00	648	218.00	271	365.00	1213
80.00	451	161.00	238	221.00	1779	372.00	189
81.00	1132	165.00	213	222.00	218	423.00	1583
93.00	1507	167.00	1844	224.00	4881	441.00	5199
98.00	1186	168.00	1012	225.00	1075	442.00	33024
99.00	942	174.00	193	227.00	2038	443.00	6222
101.00	506	175.00	328	229.00	231	444.00	187
105.00	230	179.00	1270	244.00	3954		
107.00	4718	180.00	1015	245.00	214		
108.00	535	181.00	219	246.00	564		

Breakdown Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234787.D
Injection Date: 10-Dec-2018 18:33:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

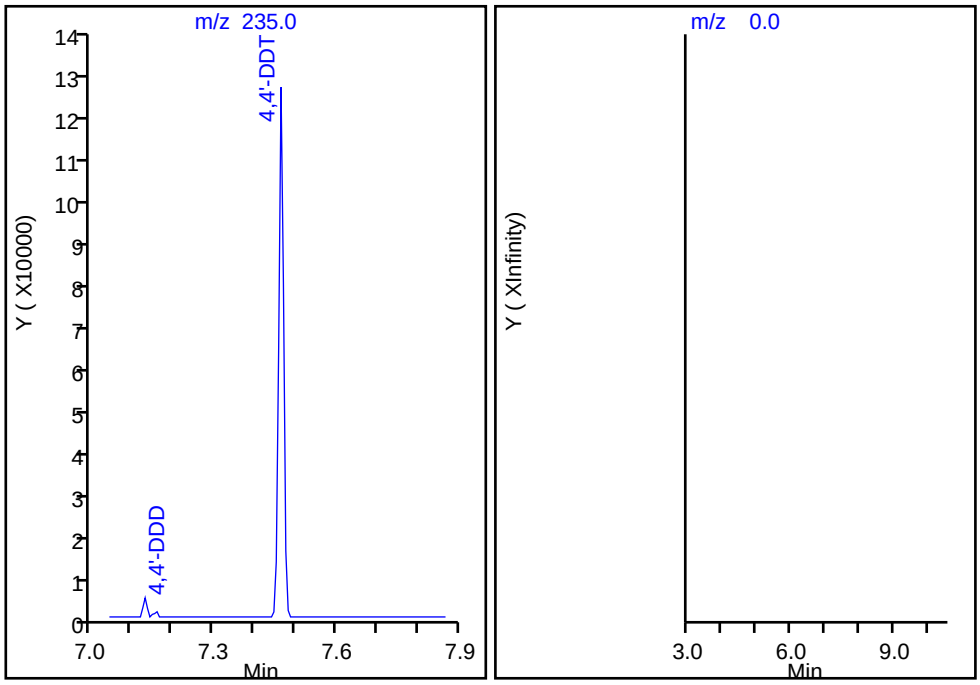
39 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 101513
37 4,4'-DDD, Area = 891
38 4,4'-DDE, Area = 0

%Breakdown: 0.87%, <= 20.00%
Passed



Peak Tailing Report

TestAmerica Edison

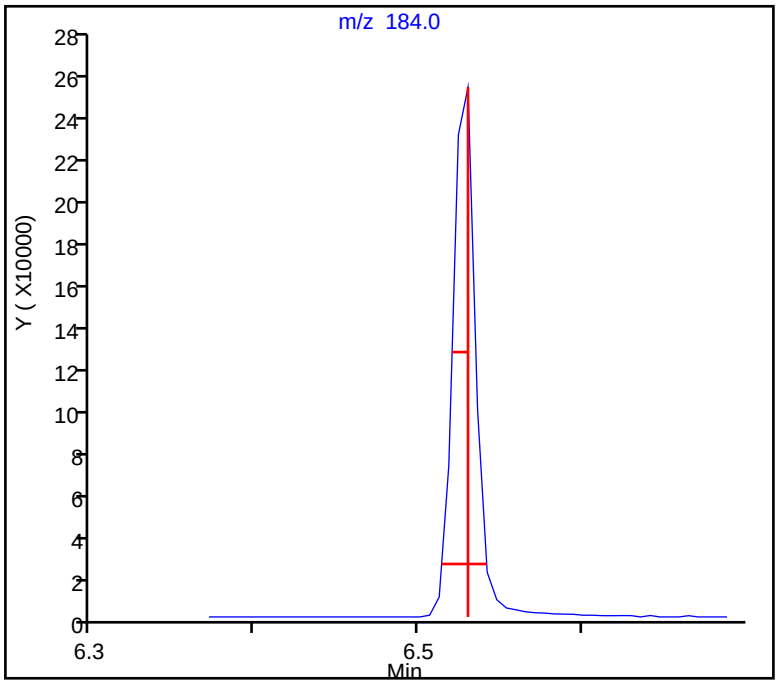
Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234787.D
Injection Date: 10-Dec-2018 18:33:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Edison

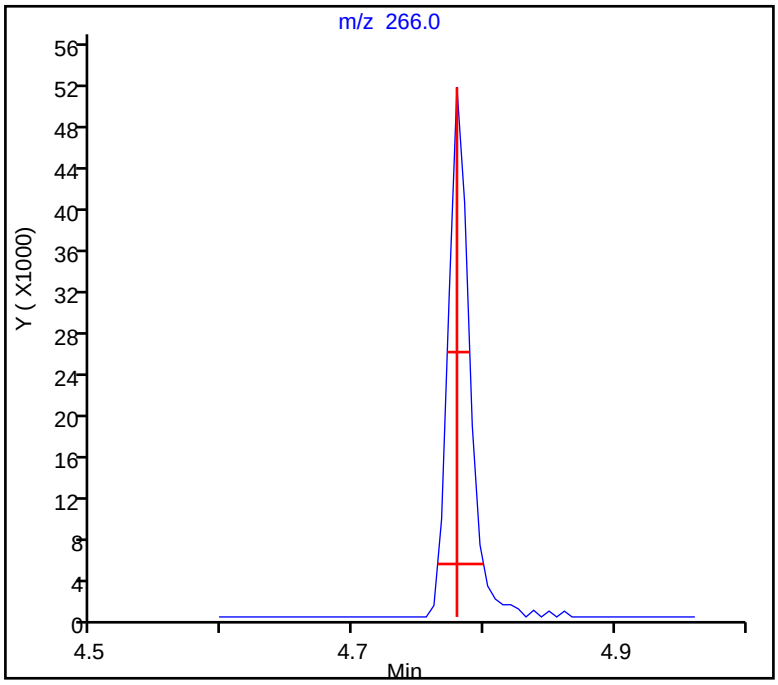
Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234787.D
Injection Date: 10-Dec-2018 18:33:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234951.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 15-Dec-2018 01:02:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083603-001
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 17-Dec-2018 08:38:43 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: hamziy Date: 15-Dec-2018 01:22:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	4.779	4.779	0.000	0	94825	NR	NR	
35 DFTPP									
36 Benzidine_T	184	6.524	6.524	0.000	0	349080	NR	NR	
37 4,4'-DDD	235	7.153	7.153	0.000	0	2926		NR	
39 4,4'-DDT	235	7.459	7.459	0.000	0	170524	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

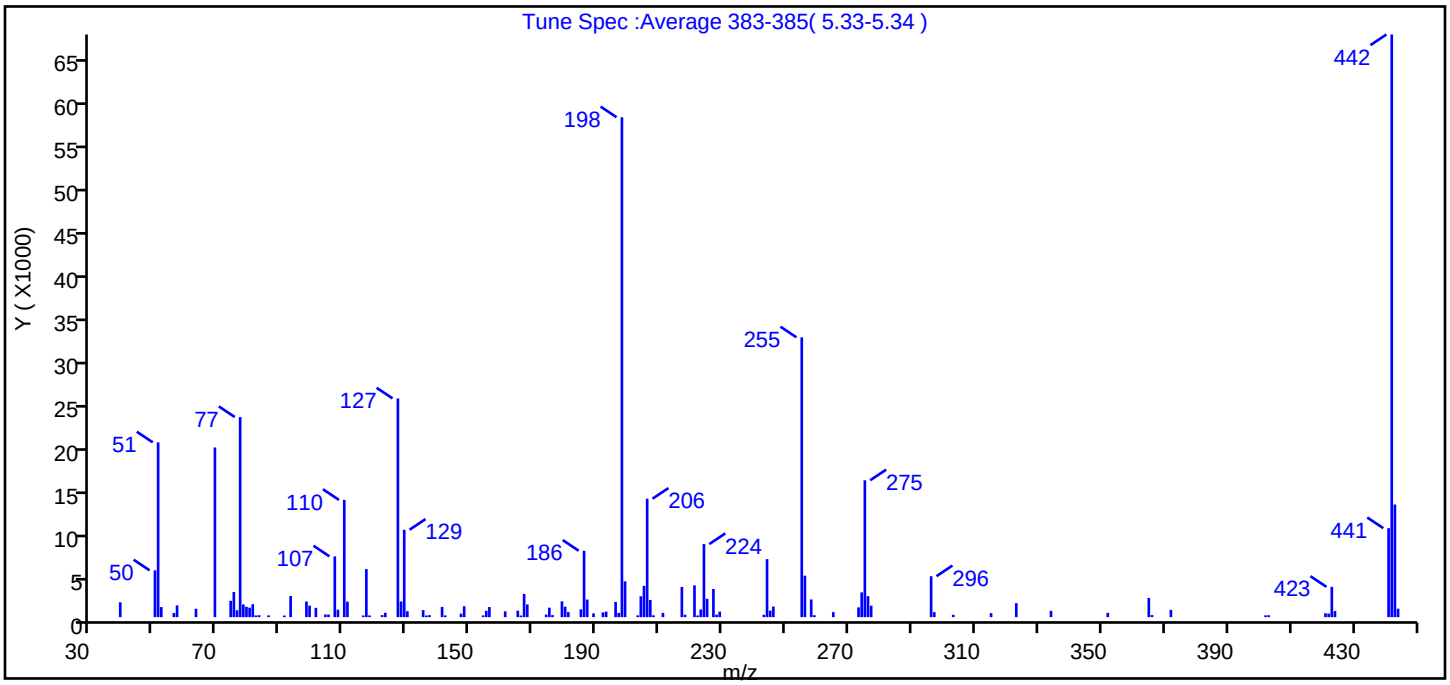
SMDFTP_CH_00026 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234951.D
Injection Date: 15-Dec-2018 01:02:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	35.0
68	<2% of mass 69	0.0 (0.0)
69	Present	33.9
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	43.8
197	<1% of mass 198	0.9
199	5-9% of mass 198	7.2
275	10-30% of mass 198	27.4
365	>1% of mass 198	3.8
441	Present but less than mass 443	17.8 (79.0)
442	>40% of mass 198	116.6
443	17-23% of mass 442	22.5 (19.3)

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234951.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 15-Dec-2018 01:02:30
Spectrum: Tune Spec :Average 383-385(5.33-5.34)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1722	117.00	5576	187.00	2041	258.00	2052
50.00	5424	118.00	200	189.00	436	259.00	223
51.00	20272	122.00	239	192.00	551	265.00	583
52.00	1170	123.00	501	193.00	635	273.00	1138
56.00	482	127.00	25368	196.00	1763	274.00	2875
57.00	1359	128.00	1819	197.00	493	275.00	15876
63.00	975	129.00	10138	198.00	57984	276.00	2431
69.00	19680	130.00	685	199.00	4153	277.00	1331
74.00	1889	135.00	815	203.00	207	296.00	4748
75.00	2922	136.00	187	204.00	2419	297.00	581
76.00	799	137.00	234	205.00	3630	303.00	275
77.00	23208	141.00	1188	206.00	13738	315.00	466
78.00	1477	142.00	202	207.00	1987	323.00	1623
79.00	1203	147.00	406	208.00	211	334.00	731
80.00	1099	148.00	1268	211.00	494	352.00	500
81.00	1499	154.00	201	217.00	3500	365.00	2220
82.00	199	155.00	735	218.00	283	366.00	240
83.00	225	156.00	1174	221.00	3687	372.00	842
86.00	206	161.00	675	222.00	195	402.00	212
91.00	186	165.00	745	223.00	889	403.00	222
93.00	2456	166.00	190	224.00	8474	421.00	450
98.00	1814	167.00	2700	225.00	2125	422.00	411
99.00	1336	168.00	1471	227.00	3270	423.00	3511
101.00	1083	174.00	301	228.00	291	424.00	704
104.00	304	175.00	1094	229.00	639	441.00	10321
105.00	302	176.00	236	243.00	279	442.00	67584
107.00	7048	179.00	1834	244.00	6729	443.00	13065
108.00	868	180.00	1214	245.00	756	444.00	979
110.00	13599	181.00	580	246.00	1229		
111.00	1797	185.00	899	255.00	32456		
116.00	191	186.00	7700	256.00	4809		

Breakdown Report

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234951.D
Injection Date: 15-Dec-2018 01:02:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

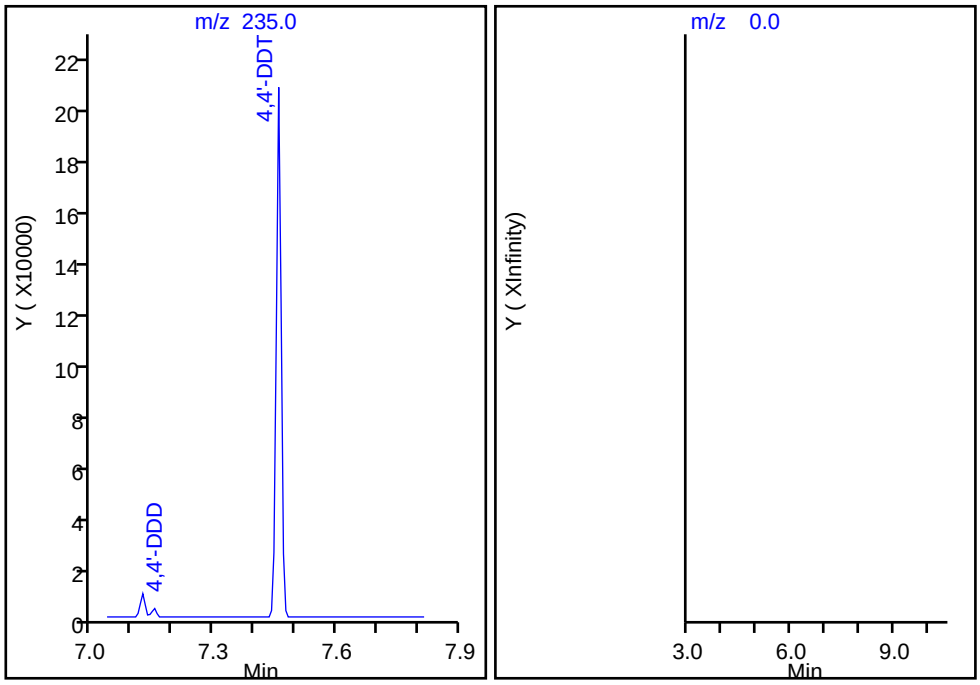
39 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 170524
37 4,4'-DDD, Area = 2926
38 4,4'-DDE, Area = 0

%Breakdown: 1.69%, <= 20.00%
Passed



Peak Tailing Report

TestAmerica Edison

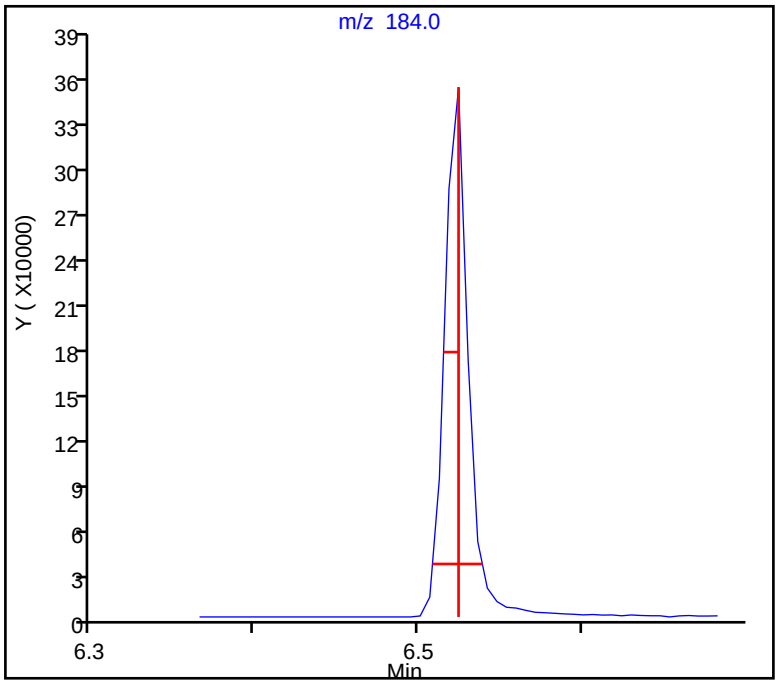
Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234951.D
Injection Date: 15-Dec-2018 01:02:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

36 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



Peak Tailing Report

TestAmerica Edison

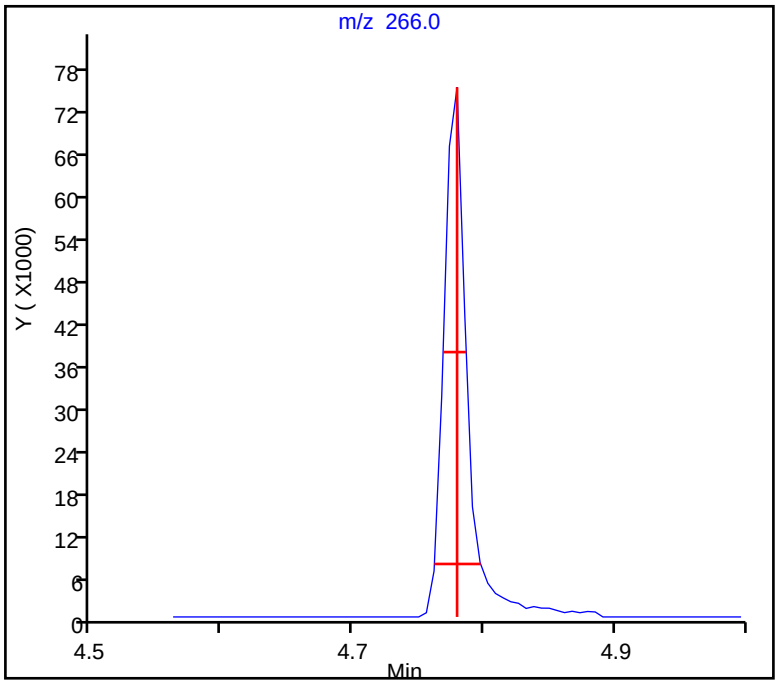
Data File: \\chromna\Edison\ChromData\CBNAMS9\20181214-83603.b\h234951.D
Injection Date: 15-Dec-2018 01:02:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: MB 460-574537/1-A

Matrix: Water | Lab File ID: h234790.D

Analysis Method: 8270D SIM | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/10/2018 20:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574646 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.014	U	0.050	0.014
208-96-8	Acenaphthylene	0.015	U	0.050	0.015
120-12-7	Anthracene	0.0092	U	0.050	0.0092
56-55-3	Benzo[a]anthracene	0.016	U	0.050	0.016
50-32-8	Benzo[a]pyrene	0.022	U	0.050	0.022
205-99-2	Benzo[b]fluoranthene	0.024	U	0.050	0.024
191-24-2	Benzo[g,h,i]perylene	0.035	U	0.050	0.035
207-08-9	Benzo[k]fluoranthene	0.028	U	0.050	0.028
111-44-4	Bis(2-chloroethyl)ether	0.026	U	0.030	0.026
218-01-9	Chrysene	0.030	U	0.050	0.030
53-70-3	Dibenz(a,h)anthracene	0.011	U	0.050	0.011
206-44-0	Fluoranthene	0.039	U	0.050	0.039
86-73-7	Fluorene	0.012	U	0.050	0.012
193-39-5	Indeno[1,2,3-cd]pyrene	0.036	U	0.050	0.036
91-20-3	Naphthalene	0.12	U	0.20	0.12
85-01-8	Phenanthrene	0.022	U	0.050	0.022
129-00-0	Pyrene	0.031	U	0.050	0.031

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234790.D
Lims ID: MB 460-574537/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Dec-2018 20:23:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083334-004
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 11-Dec-2018 08:24:39 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: eisam Date: 10-Dec-2018 21:08:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	97	9129	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.618	4.619	-0.001	98	459436	10.0	8.67	
* 7 Naphthalene-d8	136	5.310	5.310	0.000	98	30777	0.2000	0.2000	
$ 9 2-Fluorobiphenyl	172	6.337	6.337	0.000	100	645245	10.0	4.64	
* 11 Acenaphthene-d10	164	6.969	6.969	0.000	95	15943	0.2000	0.2000	
$ 20 2,4,6-Tribromophenol	330	7.719	7.732	-0.013	99	161275	10.0	7.03	
* 17 Phenanthrene-d10	188	8.376	8.376	0.000	99	29451	0.2000	0.2000	
$ 23 Terphenyl-d14	244	9.902	9.902	0.000	95	668894	10.0	7.32	
* 25 Chrysene-d12	240	10.945	10.945	0.000	92	21386	0.2000	0.2000	
* 30 Perylene-d12	264	12.729	12.729	0.000	100	26703	0.2000	0.2000	

Reagents:

SM_SIMISTDLVI_00024 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 11-Dec-2018 08:24:41 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234790.D

Injection Date: 10-Dec-2018 20:23:30 Instrument ID: CBNAMS9

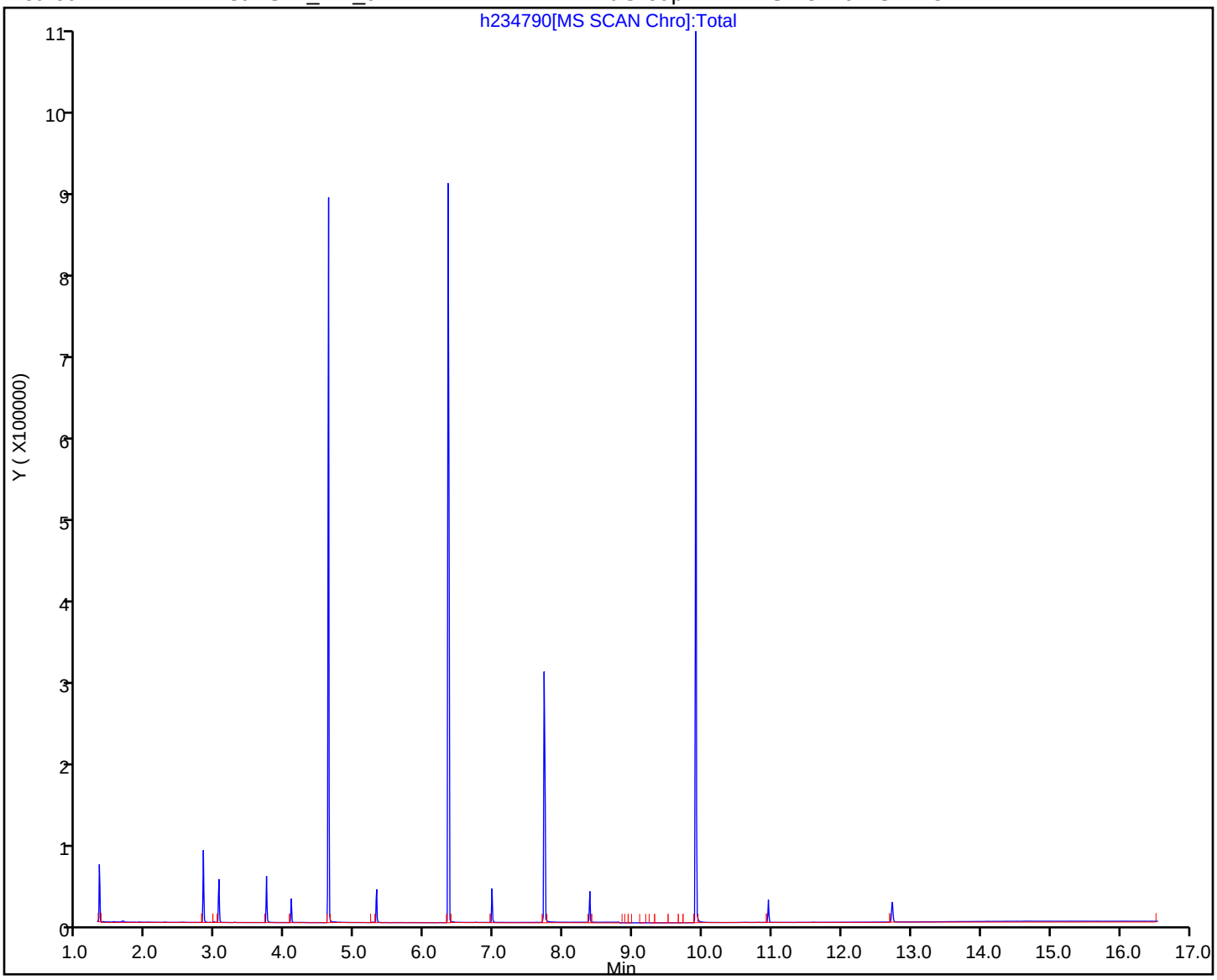
Lims ID: MB 460-574537/1-A

Client ID:

Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL



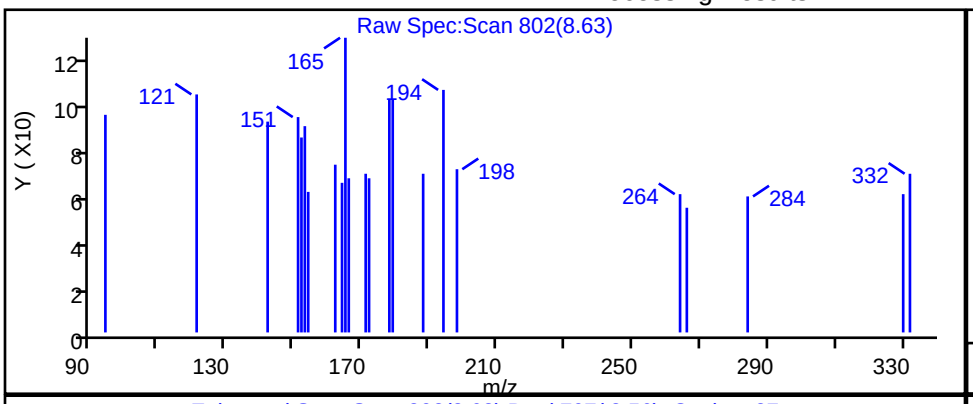
User Disabled Compound Report

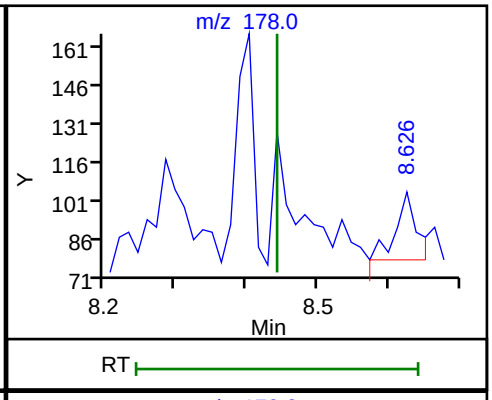
TestAmerica Edison

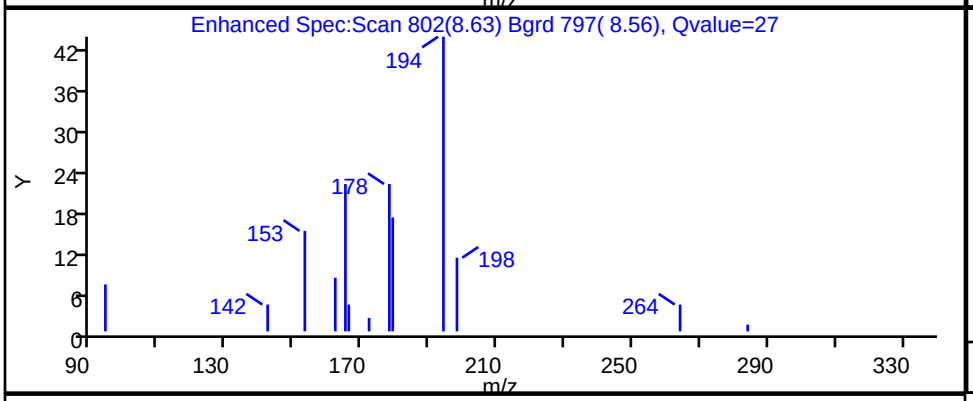
Data File:	\\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234790.D				
Injection Date:	10-Dec-2018 20:23:30	Instrument ID:	CBNAMS9		
Lims ID:	MB 460-574537/1-A				
Client ID:					
Operator ID:		ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270D SIM ICAL		
Column:		Detector	MS SCAN		

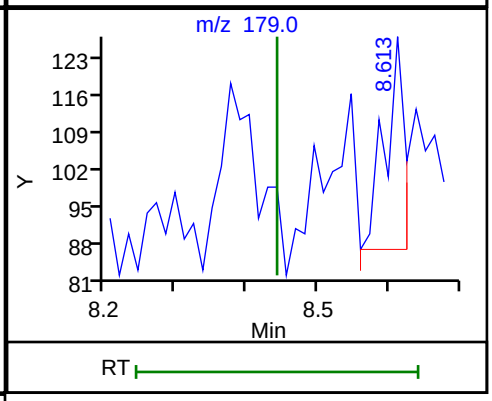
19 Anthracene, CAS: 120-12-7

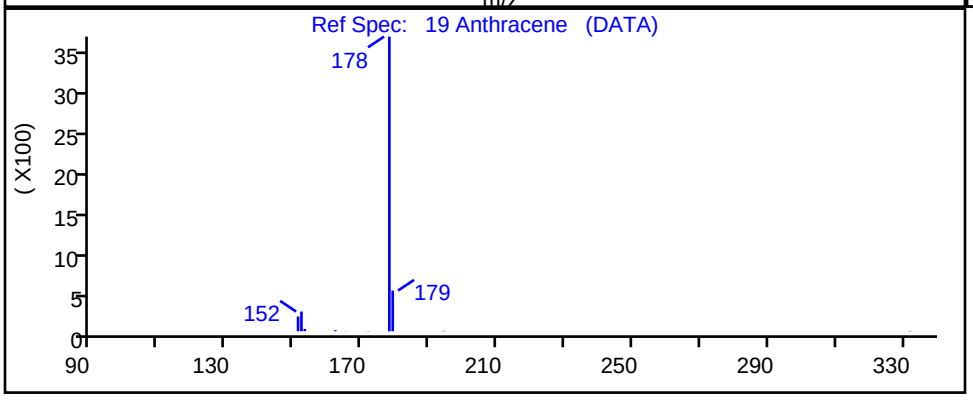
Processing Results











RT	Mass	Response	Amount
8.63	178.00	56	0.000277
8.61	179.00	79	

Reviewer: eisam, 10-Dec-2018 21:07:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

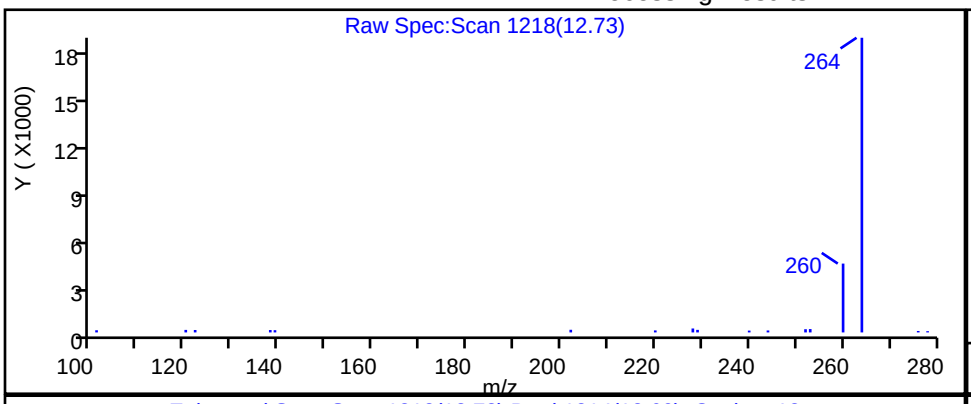
User Disabled Compound Report

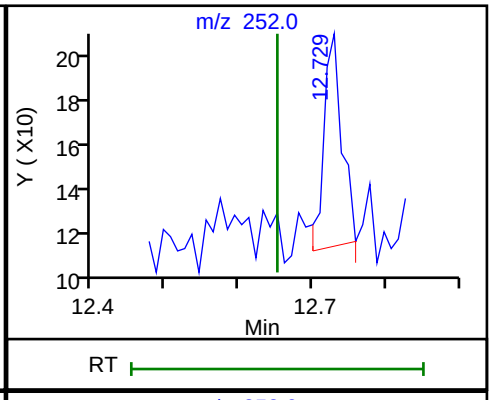
TestAmerica Edison

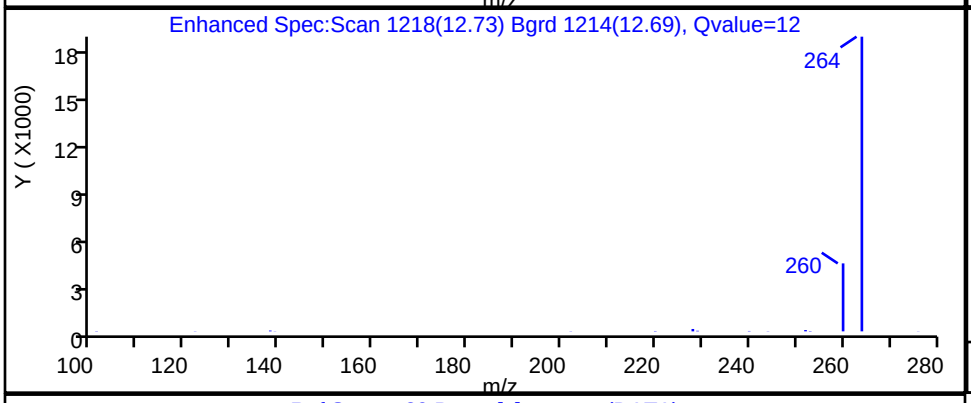
Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234790.D
Injection Date: 10-Dec-2018 20:23:30 Instrument ID: CBNAMS9
Lims ID: MB 460-574537/1-A
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL
Column: Detector MS SCAN

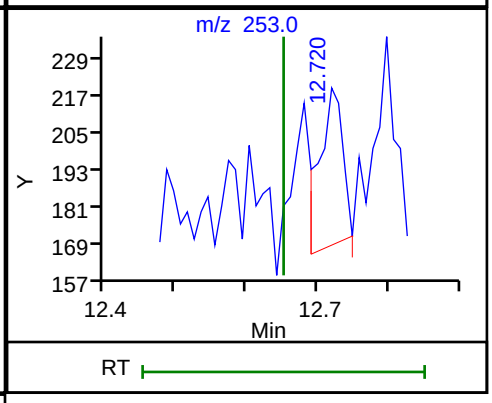
29 Benzo[a]pyrene, CAS: 50-32-8

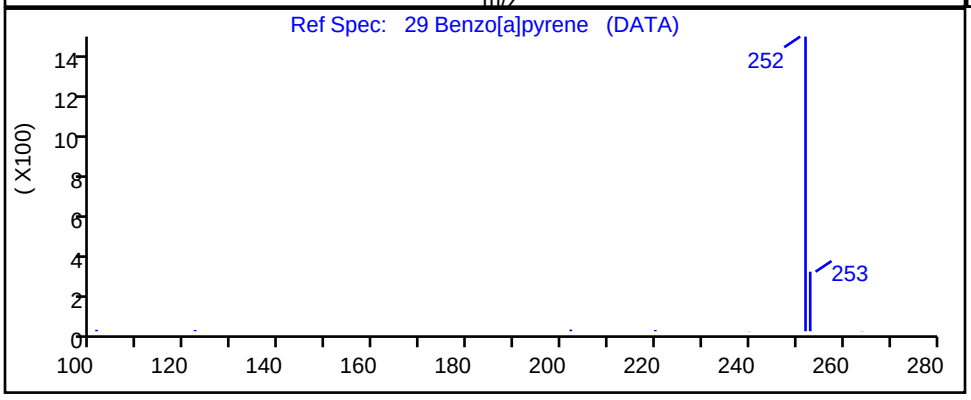
Processing Results











RT	Mass	Response	Amount
12.73	252.00	153	0.000832
12.72	253.00	123	

Reviewer: eisam, 10-Dec-2018 21:08:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

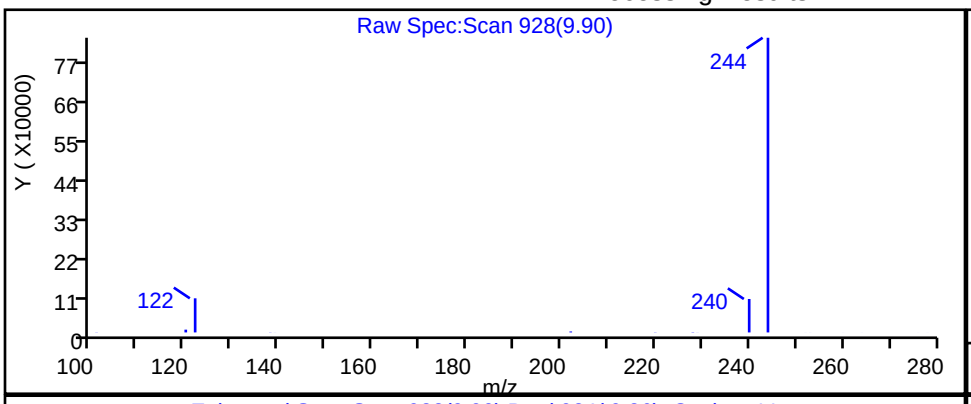
User Disabled Compound Report

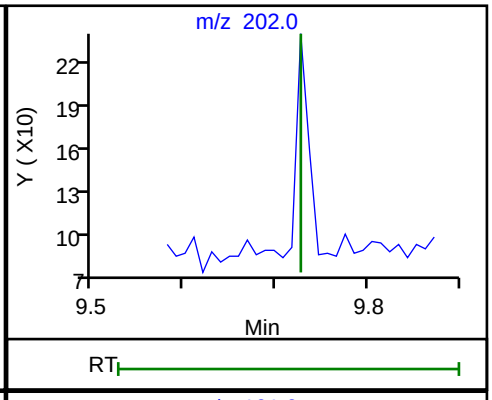
TestAmerica Edison

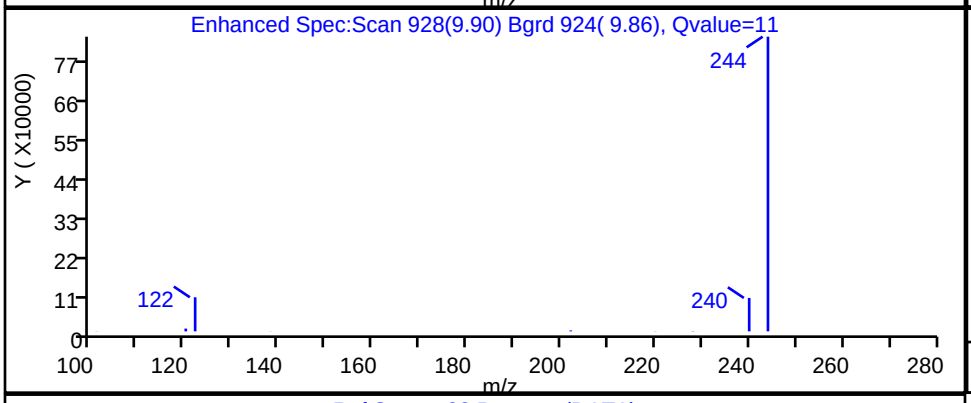
Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234790.D
Injection Date: 10-Dec-2018 20:23:30 Instrument ID: CBNAMS9
Lims ID: MB 460-574537/1-A
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL
Column: Detector MS SCAN

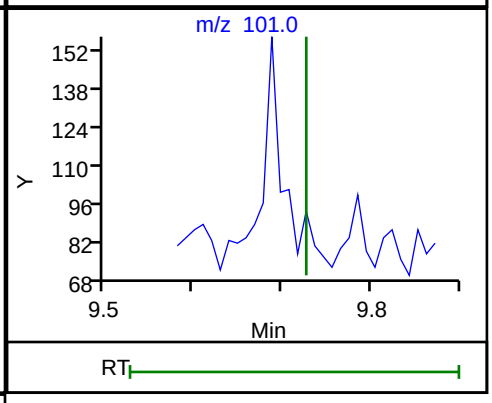
22 Pyrene, CAS: 129-00-0

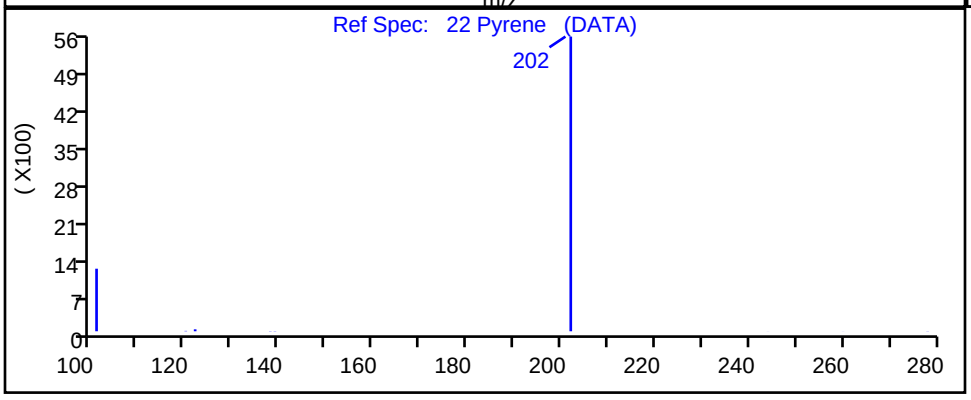
Processing Results











RT	Mass	Response	Amount
9.90	202.00	2399	0.012018
9.89	101.00	593	

Reviewer: eisam, 10-Dec-2018 21:08:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCS 460-574537/6-A

Matrix: Water | Lab File ID: h234791.D

Analysis Method: 8270D SIM | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/10/2018 20:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574646 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.524		0.050	0.014
208-96-8	Acenaphthylene	0.449		0.050	0.015
120-12-7	Anthracene	0.759		0.050	0.0092
56-55-3	Benzo[a]anthracene	0.847		0.050	0.016
50-32-8	Benzo[a]pyrene	0.818		0.050	0.022
205-99-2	Benzo[b]fluoranthene	0.893		0.050	0.024
191-24-2	Benzo[g,h,i]perylene	1.16		0.050	0.035
207-08-9	Benzo[k]fluoranthene	0.809		0.050	0.028
111-44-4	Bis(2-chloroethyl)ether	1.08		0.030	0.026
218-01-9	Chrysene	0.884		0.050	0.030
53-70-3	Dibenz(a,h)anthracene	1.16		0.050	0.011
206-44-0	Fluoranthene	0.782		0.050	0.039
86-73-7	Fluorene	0.506		0.050	0.012
193-39-5	Indeno[1,2,3-cd]pyrene	1.09		0.050	0.036
91-20-3	Naphthalene	0.697		0.20	0.12
85-01-8	Phenanthrene	0.587		0.050	0.022
129-00-0	Pyrene	0.773		0.050	0.031

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234791.D
Lims ID: LCS 460-574537/6-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Dec-2018 20:45:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083334-005
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 11-Dec-2018 08:24:39 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: zhaoc Date: 11-Dec-2018 08:19:15

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.513	1.513	0.000	100	1776	0.1000	0.0971	
	2 N-Nitrosodimethylamine	74	1.746	1.738	0.008	89	1196	0.1000	0.0570	
	3 Bis(2-chloroethyl)ether	93	3.822	3.822	0.000	100	5512	0.1000	0.1352	
*	5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	98	6903	0.2000	0.2000	
*	7 Naphthalene-d8	136	5.310	5.310	0.000	98	23763	0.2000	0.2000	
	8 Naphthalene	128	5.326	5.327	-0.001	100	12051	0.1000	0.0871	
	10 Acenaphthylene	152	6.837	6.837	0.000	100	11277	0.1000	0.0561	
*	11 Acenaphthene-d10	164	6.969	6.969	0.000	93	13213	0.2000	0.2000	
	12 Acenaphthene	154	6.995	6.995	0.000	91	6847	0.1000	0.0654	
	13 Fluorene	166	7.495	7.495	0.000	99	8618	0.1000	0.0633	
	14 4,6-Dinitro-2-methylphenol	198	7.547	7.548	-0.001	80	2484	0.2000	0.3555	
	15 Hexachlorobenzene	284	8.008	8.008	0.000	99	3762	0.1000	0.0840	
	16 Pentachlorophenol	266	8.205	8.205	0.000	97	4391	0.2000	0.2009	
*	17 Phenanthrene-d10	188	8.376	8.376	0.000	100	22441	0.2000	0.2000	
	18 Phenanthrene	178	8.389	8.403	-0.014	97	13424	0.1000	0.0734	
	19 Anthracene	178	8.442	8.442	0.000	99	14621	0.1000	0.0949	
	21 Fluoranthene	202	9.512	9.522	-0.010	98	15851	0.1000	0.0978	
	22 Pyrene	202	9.727	9.727	0.000	98	16950	0.1000	0.0966	
	24 Benzo[a]anthracene	228	10.935	10.936	-0.001	42	15094	0.1000	0.1059	
*	25 Chrysene-d12	240	10.945	10.945	0.000	95	18794	0.2000	0.2000	
	26 Chrysene	228	10.974	10.975	-0.001	98	15473	0.1000	0.1105	
	27 Benzo[b]fluoranthene	252	12.222	12.222	0.000	100	18660	0.1000	0.1116	
	28 Benzo[k]fluoranthene	252	12.261	12.261	0.000	100	18560	0.1000	0.1011	
	29 Benzo[a]pyrene	252	12.641	12.651	-0.010	99	16911	0.1000	0.1023	
*	30 Perylene-d12	264	12.729	12.729	0.000	99	24011	0.2000	0.2000	
	31 Indeno[1,2,3-cd]pyrene	276	14.182	14.192	-0.010	88	21319	0.1000	0.1368	
	32 Dibenz(a,h)anthracene	278	14.230	14.240	-0.010	94	21306	0.1000	0.1452	
	33 Benzo[g,h,i]perylene	276	14.552	14.562	-0.010	79	24951	0.1000	0.1449	

Reagents:

SM_SIMISTDLVI_00024 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 11-Dec-2018 08:24:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234791.D

Injection Date: 10-Dec-2018 20:45:30 Instrument ID: CBNAMS9

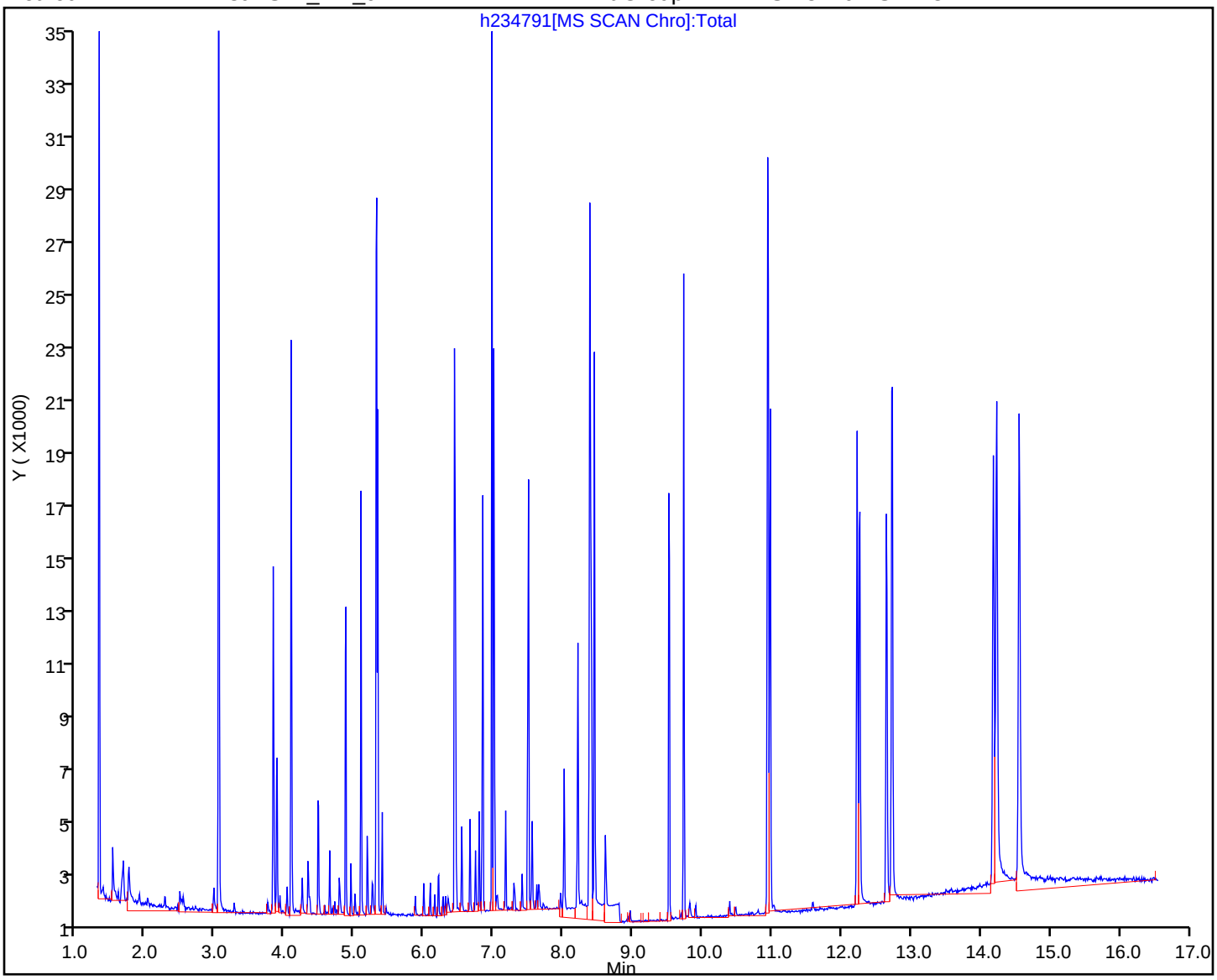
Lims ID: LCS 460-574537/6-A

Client ID:

Operator ID: ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Client Sample ID: | Lab Sample ID: LCSD 460-574537/7-A

Matrix: Water | Lab File ID: h234792.D

Analysis Method: 8270D SIM | Date Collected:

Extract. Method: 3510C | Date Extracted: 12/10/2018 09:58

Sample wt/vol: 250(mL) | Date Analyzed: 12/10/2018 21:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 574646 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.571		0.050	0.014
208-96-8	Acenaphthylene	0.431		0.050	0.015
120-12-7	Anthracene	0.794		0.050	0.0092
56-55-3	Benzo[a]anthracene	0.875		0.050	0.016
50-32-8	Benzo[a]pyrene	0.862		0.050	0.022
205-99-2	Benzo[b]fluoranthene	0.906		0.050	0.024
191-24-2	Benzo[g,h,i]perylene	1.18		0.050	0.035
207-08-9	Benzo[k]fluoranthene	0.800		0.050	0.028
111-44-4	Bis(2-chloroethyl)ether	1.01		0.030	0.026
218-01-9	Chrysene	0.894		0.050	0.030
53-70-3	Dibenz(a,h)anthracene	1.18		0.050	0.011
206-44-0	Fluoranthene	0.796		0.050	0.039
86-73-7	Fluorene	0.503		0.050	0.012
193-39-5	Indeno[1,2,3-cd]pyrene	1.09		0.050	0.036
91-20-3	Naphthalene	0.668		0.20	0.12
85-01-8	Phenanthrene	0.581		0.050	0.022
129-00-0	Pyrene	0.792		0.050	0.031

Report Date: 11-Dec-2018 08:24:44 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234792.D
Lims ID: LCSD 460-574537/7-A
Client ID:
Sample Type: LCSD
Inject. Date: 10-Dec-2018 21:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0083334-006
Operator ID: Instrument ID: CBNAMS9

Method: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270D SIM ICAL
Last Update: 11-Dec-2018 08:24:39 Calib Date: 06-Nov-2018 13:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20181106-81522.b\h233753.D

Column 1 : Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: eisam Date: 10-Dec-2018 21:28:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.513	1.513	0.000	97	2173	0.1000	0.0908	
2 N-Nitrosodimethylamine	74	1.746	1.738	0.008	90	1843	0.1000	0.0671	
3 Bis(2-chloroethyl)ether	93	3.822	3.822	0.000	98	6744	0.1000	0.1265	
* 5 1,4-Dichlorobenzene-d4	152	4.079	4.079	0.000	98	9028	0.2000	0.2000	
* 7 Naphthalene-d8	136	5.310	5.310	0.000	98	30841	0.2000	0.2000	
8 Naphthalene	128	5.327	5.327	-0.001	100	14977	0.1000	0.0835	
10 Acenaphthylene	152	6.837	6.837	0.000	99	14216	0.1000	0.0539	
* 11 Acenaphthene-d10	164	6.969	6.969	0.000	93	17338	0.2000	0.2000	
12 Acenaphthene	154	6.995	6.995	0.000	92	9807	0.1000	0.0714	
13 Fluorene	166	7.495	7.495	0.000	98	11228	0.1000	0.0628	
14 4,6-Dinitro-2-methylphenol	198	7.548	7.548	0.000	80	3199	0.2000	0.3590	
15 Hexachlorobenzene	284	8.008	8.008	0.000	100	5102	0.1000	0.0895	a
16 Pentachlorophenol	266	8.205	8.205	0.000	96	6894	0.2000	0.2477	
* 17 Phenanthrene-d10	188	8.376	8.376	0.000	100	28574	0.2000	0.2000	
18 Phenanthrene	178	8.389	8.403	-0.014	99	16925	0.1000	0.0726	
19 Anthracene	178	8.442	8.442	0.000	100	19476	0.1000	0.0993	
21 Fluoranthene	202	9.522	9.522	0.000	93	20541	0.1000	0.0995	
22 Pyrene	202	9.727	9.727	0.000	98	22018	0.1000	0.0990	
24 Benzo[a]anthracene	228	10.936	10.936	0.000	54	19771	0.1000	0.1094	
* 25 Chrysene-d12	240	10.945	10.945	0.000	94	23838	0.2000	0.2000	
26 Chrysene	228	10.975	10.975	0.000	98	19862	0.1000	0.1118	
27 Benzo[b]fluoranthene	252	12.222	12.222	0.000	100	24181	0.1000	0.1133	
28 Benzo[k]fluoranthene	252	12.252	12.261	-0.009	98	23438	0.1000	0.1000	
29 Benzo[a]pyrene	252	12.642	12.651	-0.009	100	22744	0.1000	0.1078	
* 30 Perylene-d12	264	12.720	12.729	-0.009	100	30652	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.182	14.192	-0.010	87	27085	0.1000	0.1362	
32 Dibenz(a,h)anthracene	278	14.231	14.240	-0.009	93	27602	0.1000	0.1473	
33 Benzo[g,h,i]perylene	276	14.552	14.562	-0.010	79	32383	0.1000	0.1474	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM_SIMISTDLVI_00024 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 11-Dec-2018 08:24:44 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Edison

Data File: \\chromna\Edison\ChromData\CBNAMS9\20181210-83334.b\h234792.D

Injection Date: 10-Dec-2018 21:06:30 Instrument ID: CBNAMS9

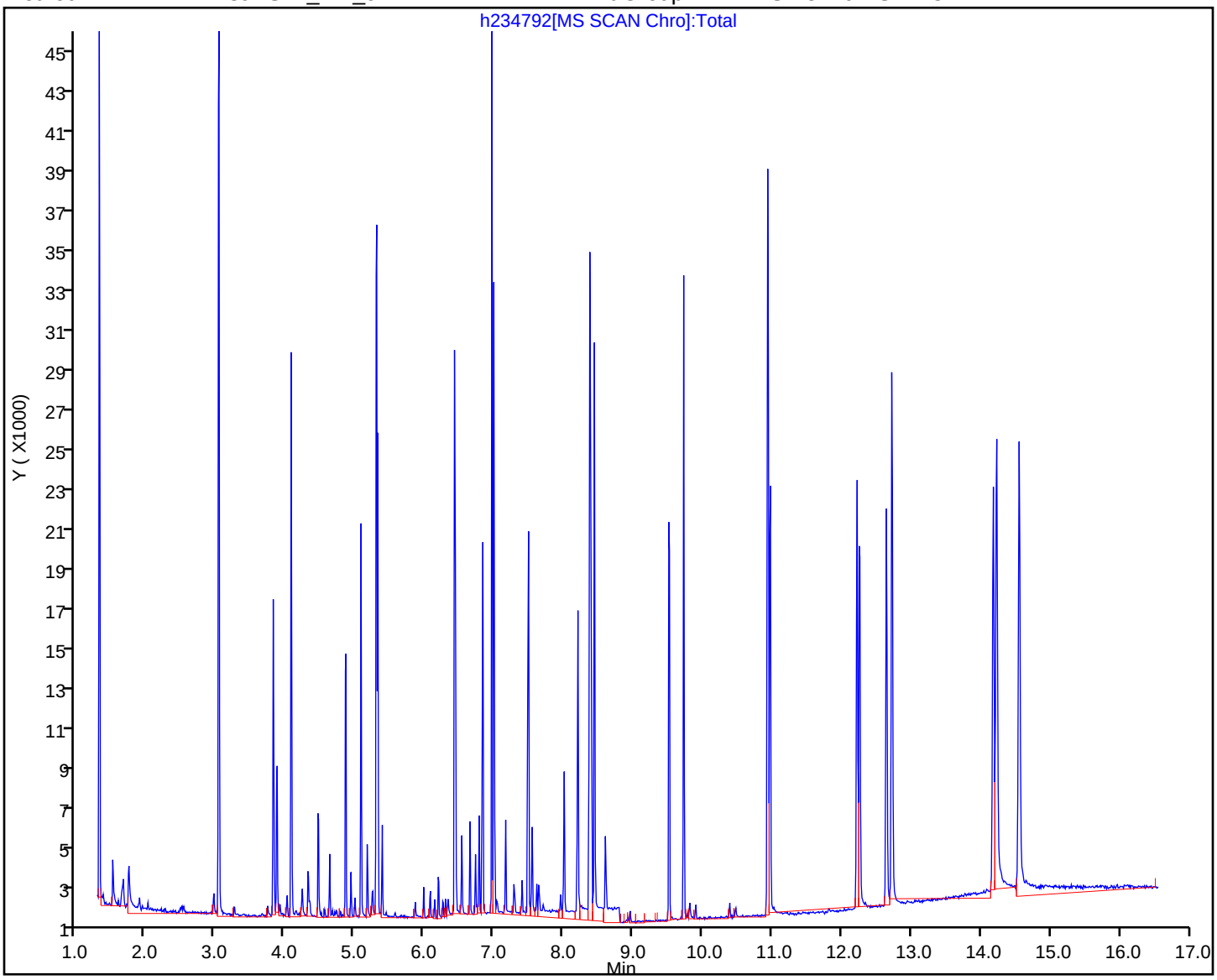
Lims ID: LCSD 460-574537/7-A

Client ID:

Operator ID: ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: BNsurrSIM_LVI_9 Limit Group: SV 8270D SIM ICAL



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: CBNAMS9 Start Date: 11/06/2018 11:03

Analysis Batch Number: 566141 End Date: 11/06/2018 21:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-566141/1		11/06/2018 11:03	1	h233747.D	Rtxi-5Sil MS 0.25(mm)
ICIS 460-566141/2		11/06/2018 11:43	1	h233748.D	Rtxi-5Sil MS 0.25(mm)
STD6 460-566141/3 IC		11/06/2018 12:07	1	h233749.D	Rtxi-5Sil MS 0.25(mm)
STD5 460-566141/4 IC		11/06/2018 12:28	1	h233750.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-566141/5 IC		11/06/2018 12:50	1	h233751.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-566141/6 IC		11/06/2018 13:11	1	h233752.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-566141/7 IC		11/06/2018 13:32	1	h233753.D	Rtxi-5Sil MS 0.25(mm)
ICV 460-566141/8		11/06/2018 13:53	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 18:01	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 18:22	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 18:44	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 19:05	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 19:26	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 19:48	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 20:09	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 20:30	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 20:52	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 21:13	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 21:35	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		11/06/2018 21:56	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: CBNAMS9 Start Date: 12/10/2018 18:33

Analysis Batch Number: 574646 End Date: 12/10/2018 23:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-574646/1		12/10/2018 18:33	1	h234787.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-574646/2		12/10/2018 19:26	1	h234788a.D	Rtxi-5Sil MS 0.25(mm)
MB 460-574537/1-A		12/10/2018 20:23	1	h234790.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-574537/6-A		12/10/2018 20:45	1	h234791.D	Rtxi-5Sil MS 0.25(mm)
LCSD 460-574537/7-A		12/10/2018 21:06	1	h234792.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 21:27	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 21:48	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 22:10	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 22:31	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 22:52	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 23:13	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 23:35	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/10/2018 23:56	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: CBNAMS9 Start Date: 12/15/2018 01:02

Analysis Batch Number: 575972 End Date: 12/15/2018 10:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-575972/1		12/15/2018 01:02	1	h234951.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-575972/2		12/15/2018 01:27	1	h234952.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 02:37	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 03:19	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 03:40	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 04:01	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 04:23	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 05:05	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 05:26	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 05:47	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 06:09	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 06:51	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 07:12	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 07:34	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 07:55	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 08:16	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		12/15/2018 08:37	1		Rtxi-5Sil MS 0.25(mm)
460-170982-1		12/15/2018 08:59	1	h234972.D	Rtxi-5Sil MS 0.25(mm)
460-170982-2		12/15/2018 09:20	1	h234973.D	Rtxi-5Sil MS 0.25(mm)
460-170982-3		12/15/2018 09:41	1	h234974.D	Rtxi-5Sil MS 0.25(mm)
460-170982-4		12/15/2018 10:02	1	h234975.D	Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 574537 Batch Start Date: 12/10/18 09:58 Batch Analyst: Babu, Dhanalakshmi X

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_BNA SIM SP 00016
MB 460-574537/1		3510C, 8270D SIM		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-574537/6		3510C, 8270D SIM		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
LCSD 460-574537/7		3510C, 8270D SIM		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
460-170982-F-1	9999-23-MW01-GW01-12052018	3510C, 8270D SIM	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	
460-170982-E-2	9999-23-MW02-GW01-12052018	3510C, 8270D SIM	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	
460-170982-E-3	9999-23-MW03-GW01-12052018	3510C, 8270D SIM	T	250 mL	2 mL	6 SU	<2 SU	>12 SU	
460-170982-D-4	9999-23-FB-BK01-12052018	3510C, 8270D SIM	T	250 mL	2 mL	6 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNASurroga 00015					
MB 460-574537/1		3510C, 8270D SIM		200 uL					
LCS 460-574537/6		3510C, 8270D SIM							
LCSD 460-574537/7		3510C, 8270D SIM							
460-170982-F-1	9999-23-MW01-GW01-12052018	3510C, 8270D SIM	T	200 uL					
460-170982-E-2	9999-23-MW02-GW01-12052018	3510C, 8270D SIM	T	200 uL					
460-170982-E-3	9999-23-MW03-GW01-12052018	3510C, 8270D SIM	T	200 uL					
460-170982-D-4	9999-23-FB-BK01-12052018	3510C, 8270D SIM	T	200 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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 574537 Batch Start Date: 12/10/18 09:58 Batch Analyst: Babu, Dhanalakshmi X

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid Used for pH Adjustment ID	186983
Base Used to Adjust pH ID	OP2761
Batch Comment	3510C_LVI 8270D
Analyst ID - Extraction	DB
Method/Fraction	BNA WATER
Prep Solvent ID	MeCL2 202867
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	DB
Analyst ID - Spike Witness Analyst	DB
Sufficient Volume for Batch QC	Yes

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.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-170982-1

SDG No.: EJ1815811.001

Project: Wawa 9999-23

Client Sample ID	Lab Sample ID
9999-23-MW01-GW01-12052018	460-170982-1
9999-23-MW02-GW01-12052018	460-170982-2
9999-23-MW03-GW01-12052018	460-170982-3
9999-23-FB-BK01-12052018	460-170982-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 9999-23-MW01-GW01-12052018 Lab Sample ID: 460-170982-1

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG ID.: EJ1815811.001

Matrix: Water Date Sampled: 12/05/2018 12:10

Reporting Basis: WET Date Received: 12/06/2018 13:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15300	40.0	18.8	ug/L			2	6020B
7440-36-0	Antimony	0.55	2.0	0.40	ug/L	J		2	6020B
7440-38-2	Arsenic	12.6	2.0	0.73	ug/L			2	6020B
7440-39-3	Barium	360	4.0	1.2	ug/L			2	6020B
7440-41-7	Beryllium	1.1	0.80	0.25	ug/L			2	6020B
7440-43-9	Cadmium	0.81	2.0	0.81	ug/L	U		2	6020B
7440-70-2	Calcium	15200	200	98.8	ug/L			2	6020B
7440-47-3	Chromium	160	4.0	2.3	ug/L			2	6020B
7440-48-4	Cobalt	22.6	4.0	1.6	ug/L			2	6020B
7440-50-8	Copper	16.0	4.0	2.0	ug/L			2	6020B
7439-89-6	Iron	25600	120	51.1	ug/L			2	6020B
7439-92-1	Lead	16.3	1.2	0.55	ug/L			2	6020B
7439-95-4	Magnesium	5250	200	73.7	ug/L			2	6020B
7439-96-5	Manganese	368	8.0	2.9	ug/L			2	6020B
7440-02-0	Nickel	54.8	4.0	2.4	ug/L			2	6020B
7440-09-7	Potassium	7130	200	86.7	ug/L			2	6020B
7782-49-2	Selenium	5.4	10.0	5.4	ug/L	U		2	6020B
7440-22-4	Silver	0.59	2.0	0.59	ug/L	U		2	6020B
7440-23-5	Sodium	33600	200	128	ug/L			2	6020B
7440-28-0	Thallium	0.29	0.80	0.16	ug/L	J		2	6020B
7440-62-2	Vanadium	52.1	4.0	1.1	ug/L			2	6020B
7440-66-6	Zinc	23.0	16.0	11.1	ug/L			2	6020B
7439-97-6	Mercury	0.73	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 9999-23-MW02-GW01-12052018 Lab Sample ID: 460-170982-2

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG ID.: EJ1815811.001

Matrix: Water Date Sampled: 12/05/2018 09:00

Reporting Basis: WET Date Received: 12/06/2018 13:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18600	40.0	18.8	ug/L			2	6020B
7440-36-0	Antimony	0.85	2.0	0.40	ug/L	J		2	6020B
7440-38-2	Arsenic	18.7	2.0	0.73	ug/L			2	6020B
7440-39-3	Barium	93.5	4.0	1.2	ug/L			2	6020B
7440-41-7	Beryllium	1.3	0.80	0.25	ug/L			2	6020B
7440-43-9	Cadmium	0.81	2.0	0.81	ug/L	U		2	6020B
7440-70-2	Calcium	10800	200	98.8	ug/L			2	6020B
7440-47-3	Chromium	449	4.0	2.3	ug/L			2	6020B
7440-48-4	Cobalt	6.9	4.0	1.6	ug/L			2	6020B
7440-50-8	Copper	28.4	4.0	2.0	ug/L			2	6020B
7439-89-6	Iron	39700	120	51.1	ug/L			2	6020B
7439-92-1	Lead	9.5	1.2	0.55	ug/L			2	6020B
7439-95-4	Magnesium	2640	200	73.7	ug/L			2	6020B
7439-96-5	Manganese	119	8.0	2.9	ug/L			2	6020B
7440-02-0	Nickel	167	4.0	2.4	ug/L			2	6020B
7440-09-7	Potassium	5240	200	86.7	ug/L			2	6020B
7782-49-2	Selenium	5.4	10.0	5.4	ug/L	U		2	6020B
7440-22-4	Silver	0.59	2.0	0.59	ug/L	U		2	6020B
7440-23-5	Sodium	131000	200	128	ug/L			2	6020B
7440-28-0	Thallium	0.20	0.80	0.16	ug/L	J		2	6020B
7440-62-2	Vanadium	61.6	4.0	1.1	ug/L			2	6020B
7440-66-6	Zinc	27.4	16.0	11.1	ug/L			2	6020B
7439-97-6	Mercury	0.21	0.20	0.12	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 9999-23-MW03-GW01-12052018 Lab Sample ID: 460-170982-3

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG ID.: EJ1815811.001

Matrix: Water Date Sampled: 12/05/2018 10:30

Reporting Basis: WET Date Received: 12/06/2018 13:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	31600	40.0	18.8	ug/L			2	6020B
7440-36-0	Antimony	1.3	2.0	0.40	ug/L	J		2	6020B
7440-38-2	Arsenic	29.5	2.0	0.73	ug/L			2	6020B
7440-39-3	Barium	192	4.0	1.2	ug/L			2	6020B
7440-41-7	Beryllium	1.9	0.80	0.25	ug/L			2	6020B
7440-43-9	Cadmium	0.81	2.0	0.81	ug/L	U		2	6020B
7440-70-2	Calcium	50200	200	98.8	ug/L			2	6020B
7440-47-3	Chromium	322	4.0	2.3	ug/L			2	6020B
7440-48-4	Cobalt	5.2	4.0	1.6	ug/L			2	6020B
7440-50-8	Copper	34.6	4.0	2.0	ug/L			2	6020B
7439-89-6	Iron	63200	120	51.1	ug/L			2	6020B
7439-92-1	Lead	22.3	1.2	0.55	ug/L			2	6020B
7439-95-4	Magnesium	13700	200	73.7	ug/L			2	6020B
7439-96-5	Manganese	111	8.0	2.9	ug/L			2	6020B
7440-02-0	Nickel	113	4.0	2.4	ug/L			2	6020B
7440-09-7	Potassium	8880	200	86.7	ug/L			2	6020B
7782-49-2	Selenium	7.9	10.0	5.4	ug/L	J		2	6020B
7440-22-4	Silver	0.59	2.0	0.59	ug/L	U		2	6020B
7440-23-5	Sodium	23800	200	128	ug/L			2	6020B
7440-28-0	Thallium	0.34	0.80	0.16	ug/L	J		2	6020B
7440-62-2	Vanadium	112	4.0	1.1	ug/L			2	6020B
7440-66-6	Zinc	31.4	16.0	11.1	ug/L			2	6020B
7439-97-6	Mercury	0.12	0.20	0.12	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 9999-23-FB-BK01-12052018 Lab Sample ID: 460-170982-4

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG ID.: EJ1815811.001

Matrix: Water Date Sampled: 12/05/2018 15:00

Reporting Basis: WET Date Received: 12/06/2018 13:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	18.8	40.0	18.8	ug/L	U		2	6020B
7440-36-0	Antimony	0.40	2.0	0.40	ug/L	U		2	6020B
7440-38-2	Arsenic	0.73	2.0	0.73	ug/L	U		2	6020B
7440-39-3	Barium	1.2	4.0	1.2	ug/L	U		2	6020B
7440-41-7	Beryllium	0.25	0.80	0.25	ug/L	U		2	6020B
7440-43-9	Cadmium	0.81	2.0	0.81	ug/L	U		2	6020B
7440-70-2	Calcium	98.8	200	98.8	ug/L	U		2	6020B
7440-47-3	Chromium	2.3	4.0	2.3	ug/L	U		2	6020B
7440-48-4	Cobalt	1.6	4.0	1.6	ug/L	U		2	6020B
7440-50-8	Copper	2.0	4.0	2.0	ug/L	U		2	6020B
7439-89-6	Iron	51.1	120	51.1	ug/L	U		2	6020B
7439-92-1	Lead	0.55	1.2	0.55	ug/L	U		2	6020B
7439-95-4	Magnesium	73.7	200	73.7	ug/L	U		2	6020B
7439-96-5	Manganese	2.9	8.0	2.9	ug/L	U		2	6020B
7440-02-0	Nickel	2.4	4.0	2.4	ug/L	U		2	6020B
7440-09-7	Potassium	196	200	86.7	ug/L	J		2	6020B
7782-49-2	Selenium	5.4	10.0	5.4	ug/L	U		2	6020B
7440-22-4	Silver	0.59	2.0	0.59	ug/L	U		2	6020B
7440-23-5	Sodium	128	200	128	ug/L	U		2	6020B
7440-28-0	Thallium	0.16	0.80	0.16	ug/L	U		2	6020B
7440-62-2	Vanadium	1.1	4.0	1.1	ug/L	U		2	6020B
7440-66-6	Zinc	11.1	16.0	11.1	ug/L	U		2	6020B
7439-97-6	Mercury	0.12	0.20	0.12	ug/L	U		1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICV Source: ME_msICV_00152 Concentration Units: ug/L

CCV Source: ME_msCal4_00085

Analyte	ICV 460-575571/7 12/13/2018 15:07				CCV 460-575571/19 12/13/2018 15:39				CCV 460-575571/30 12/13/2018 16:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	400.5		400	100	481.7		500	96	495.5		500	99
Antimony	40.85		40.0	102	49.77		50.0	100	48.82		50.0	98
Arsenic	39.68		40.0	99	49.93		50.0	100	50.31		50.0	101
Barium	41.66		40.0	104	50.36		50.0	101	49.23		50.0	98
Beryllium	40.82		40.0	102	50.65		50.0	101	49.76		50.0	100
Cadmium	40.81		40.0	102	50.18		50.0	100	49.36		50.0	99
Calcium	4085		4000	102	4854		5000	97	4969		5000	99
Chromium	39.92		40.0	100	49.05		50.0	98	49.83		50.0	100
Cobalt	39.87		40.0	100	49.67		50.0	99	50.22		50.0	100
Copper	40.33		40.0	101	50.03		50.0	100	50.92		50.0	102
Iron	3984		4000	100	4939		5000	99	4987		5000	100
Lead	40.23		40.0	101	49.03		50.0	98	48.79		50.0	98
Magnesium	4012		4000	100	4936		5000	99	5035		5000	101
Manganese	397.6		400	99	489.0		500	98	504.3		500	101
Nickel	40.26		40.0	101	49.53		50.0	99	50.70		50.0	101
Potassium	3932		4000	98	4903		5000	98	5021		5000	100
Selenium	39.06		40.0	98	49.52		50.0	99	49.65		50.0	99
Silver	41.05		40.0	103	49.44		50.0	99	49.33		50.0	99
Sodium	3990		4000	100	4969		5000	99	5056		5000	101
Thallium	8.04		8.00	100	9.76		10.0	98	9.83		10.0	98
Vanadium	39.50		40.0	99	49.72		50.0	99	50.28		50.0	101
Zinc	40.05		40.0	100	49.87		50.0	100	50.64		50.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICV Source: ME_msICV_00152 Concentration Units: ug/L

CCV Source: ME_msCal4_00085

Analyte	CCV 460-575571/110 12/13/2018 19:45				CCV 460-575571/122 12/13/2018 20:17							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	493.9		500	99	514.2		500	103				
Antimony	50.85		50.0	102	50.66		50.0	101				
Arsenic	53.01		50.0	106	50.15		50.0	100				
Barium	49.94		50.0	100	51.88		50.0	104				
Beryllium	52.60		50.0	105	52.24		50.0	104				
Cadmium	49.96		50.0	100	50.54		50.0	101				
Calcium	5028		5000	101	5098		5000	102				
Chromium	49.49		50.0	99	49.84		50.0	100				
Cobalt	49.18		50.0	98	49.74		50.0	99				
Copper	49.50		50.0	99	49.81		50.0	100				
Iron	4921		5000	98	4953		5000	99				
Lead	49.73		50.0	99	49.48		50.0	99				
Magnesium	4999		5000	100	5098		5000	102				
Manganese	493.3		500	99	494.0		500	99				
Nickel	49.17		50.0	98	49.10		50.0	98				
Potassium	5018		5000	100	5138		5000	103				
Selenium	53.80		50.0	108	54.40		50.0	109				
Silver	48.87		50.0	98	50.33		50.0	101				
Sodium	5090		5000	102	5192		5000	104				
Thallium	9.94		10.0	99	10.01		10.0	100				
Vanadium	49.92		50.0	100	49.73		50.0	99				
Zinc	49.96		50.0	100	50.10		50.0	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICV Source: ME_msCAL2_00083 Concentration Units: ug/L

CCV Source: ME_msCAL2_00083

Analyte	ICVL 460-575571/9 12/13/2018 15:12				CCVL 460-575571/21 12/13/2018 15:45				CCVL 460-575571/32 12/13/2018 16:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.14	J	20.0	91	18.00	J	20.0	90	20.69		20.0	103
Antimony	0.973	J	1.00	97	1.03		1.00	103	0.973	J	1.00	97
Arsenic	0.958	J	1.00	96	0.950	J	1.00	95	0.982	J	1.00	98
Barium	2.13		2.00	107	2.15		2.00	108	2.15		2.00	108
Beryllium	0.441		0.400	110	0.381	J	0.400	95	0.402		0.400	101
Cadmium	1.06		1.00	106	1.03		1.00	103	1.01		1.00	101
Calcium	103.7		100	104	102.0		100	102	100.9		100	101
Chromium	2.03		2.00	102	2.00		2.00	100	2.06		2.00	103
Cobalt	2.04		2.00	102	2.02		2.00	101	2.02		2.00	101
Copper	2.15		2.00	108	2.03		2.00	101	2.00		2.00	100
Iron	62.34		60.0	104	60.63		60.0	101	61.73		60.0	103
Lead	0.623		0.600	104	0.681		0.600	114	0.628		0.600	105
Magnesium	100.7		100	101	103.8		100	104	100.1		100	100
Manganese	3.96	J	4.00	99	3.87	J	4.00	97	4.22		4.00	105
Nickel	2.00		2.00	100	2.06		2.00	103	1.97	J	2.00	98
Potassium	114.7		100	115	101.1		100	101	131.3		100	131
Selenium	4.38	J	5.00	88	5.34		5.00	107	5.18		5.00	104
Silver	1.10		1.00	110	1.10		1.00	110	1.12		1.00	112
Sodium	110.2		100	110	105.5		100	106	114.4		100	114
Thallium	0.420		0.400	105	0.403		0.400	101	0.413		0.400	103
Vanadium	2.01		2.00	100	1.87	J	2.00	93	1.95	J	2.00	97
Zinc	8.20		8.00	102	7.98	J	8.00	100	7.63	J	8.00	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICV Source: ME_msCAL2_00083 Concentration Units: ug/L

CCV Source: ME_msCAL2_00083

Analyte	CCVL 460-575571/112 12/13/2018 19:50				CCVL 460-575571/124 12/13/2018 20:22							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	23.39		20.0	117	20.25		20.0	101				
Antimony	1.07		1.00	107	1.03		1.00	103				
Arsenic	1.06		1.00	106	0.948	J	1.00	95				
Barium	1.98	J	2.00	99	2.15		2.00	107				
Beryllium	0.435		0.400	109	0.388	J	0.400	97				
Cadmium	0.968	J	1.00	97	1.09		1.00	109				
Calcium	108.3		100	108	105.1		100	105				
Chromium	1.97	J	2.00	99	2.13		2.00	106				
Cobalt	2.00		2.00	100	2.04		2.00	102				
Copper	2.05		2.00	103	2.12		2.00	106				
Iron	61.19		60.0	102	63.09		60.0	105				
Lead	0.555	J	0.600	93	0.574	J	0.600	96				
Magnesium	101.3		100	101	105.0		100	105				
Manganese	4.11		4.00	103	4.13		4.00	103				
Nickel	1.93	J	2.00	96	2.01		2.00	101				
Potassium	166.4		100	166	161.9		100	162				
Selenium	4.94	J	5.00	99	4.56	J	5.00	91				
Silver	1.10		1.00	110	1.08		1.00	108				
Sodium	137.0		100	137	144.2		100	144				
Thallium	0.403		0.400	101	0.427		0.400	107				
Vanadium	1.97	J	2.00	98	2.03		2.00	102				
Zinc	8.12		8.00	102	7.75	J	8.00	97				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICV Source: ME_DQCS-INT_02889 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_03158

Analyte	ICV 460-575860/31-A 12/14/2018 14:27				CCV 460-575860/33-A 12/14/2018 14:35				CCV 460-575860/33-A 12/14/2018 14:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.11		5.00	102	5.09		5.00	102	5.09		5.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICV Source: ME_DQCS-INT_02889 Concentration Units: ug/L

CCV Source: ME_DCAL-IN_03158

Analyte	CCV 460-575860/33-A 12/14/2018 15:16				CCV 460-575860/33-A 12/14/2018 15:37							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.01		5.00	100	4.97		5.00	99				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Method: 7470A Instrument ID: LEEMAN6

Lab Sample ID: CRI 460-575905/9 Concentration Units: ug/L

CRQL Check Standard Source:

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury		0.163	J		

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Concentration Units: ug/L

Analyte	RL	ICB 460-575571/8 12/13/2018 15:10		CCB 460-575571/20 12/13/2018 15:42		CCB 460-575571/31 12/13/2018 16:11		CCB 460-575571/111 12/13/2018 19:47	
		Found	C	Found	C	Found	C	Found	C
Aluminum	20.0	9.4	U	9.4	U	9.4	U	9.4	U
Antimony	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Arsenic	1.0	0.37	U	0.37	U	0.37	U	0.37	U
Barium	2.0	0.58	U	0.58	U	0.58	U	0.58	U
Beryllium	0.40	0.12	U	0.12	U	0.12	U	0.12	U
Cadmium	1.0	0.40	U	0.40	U	0.40	U	0.40	U
Calcium	100	49.4	U	49.4	U	49.4	U	49.4	U
Chromium	2.0	1.2	U	1.2	U	1.2	U	1.2	U
Cobalt	2.0	0.80	U	0.80	U	0.80	U	0.80	U
Copper	2.0	0.99	U	0.99	U	0.99	U	0.99	U
Iron	60.0	25.6	U	25.6	U	25.6	U	25.6	U
Lead	0.60	0.28	U	0.28	U	0.28	U	0.28	U
Magnesium	100	36.9	U	36.9	U	36.9	U	36.9	U
Manganese	4.0	1.4	U	1.4	U	1.4	U	1.4	U
Nickel	2.0	1.2	U	1.2	U	1.2	U	1.2	U
Potassium	100	43.3	U	43.3	U	43.3	U	73.89	J
Selenium	5.0	2.7	U	2.7	U	2.7	U	2.7	U
Silver	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Sodium	100	63.8	U	63.8	U	63.8	U	63.8	U
Thallium	0.40	0.078	U	0.078	U	0.078	U	0.078	U
Vanadium	2.0	0.56	U	0.56	U	0.56	U	0.56	U
Zinc	8.0	5.6	U	5.6	U	5.6	U	5.6	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Concentration Units: ug/L

Analyte	RL	CCB 460-575571/123 12/13/2018 20:20							
		Found	C	Found	C	Found	C	Found	C
Aluminum	20.0	9.4	U						
Antimony	1.0	0.20	U						
Arsenic	1.0	0.37	U						
Barium	2.0	0.58	U						
Beryllium	0.40	0.12	U						
Cadmium	1.0	0.40	U						
Calcium	100	49.4	U						
Chromium	2.0	1.2	U						
Cobalt	2.0	0.80	U						
Copper	2.0	0.99	U						
Iron	60.0	25.6	U						
Lead	0.60	0.28	U						
Magnesium	100	36.9	U						
Manganese	4.0	1.4	U						
Nickel	2.0	1.2	U						
Potassium	100	70.77	J						
Selenium	5.0	2.7	U						
Silver	1.0	0.30	U						
Sodium	100	63.8	U						
Thallium	0.40	0.078	U						
Vanadium	2.0	0.56	U						
Zinc	8.0	5.6	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Concentration Units: ug/L

Analyte	RL	ICB 460-575905/8 12/14/2018 14:28		CCB 460-575905/13 12/14/2018 14:37		CCB 460-575905/25 12/14/2018 14:58		CCB 460-575905/37 12/14/2018 15:18	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.12	U	0.12	U	0.12	U	0.12	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Concentration Units: ug/L

Analyte	RL	CCB 460-575905/49 12/14/2018 15:39							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.12	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Concentration Units: ug/L Lab Sample ID: MB 460-575471/1-A ^2

Instrument Code: ICPMS4 Batch No.: 575571

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	18.8	U		6020B_DKQP
7440-36-0	Antimony	0.40	U		6020B_DKQP
7440-38-2	Arsenic	0.73	U		6020B_DKQP
7440-39-3	Barium	1.2	U		6020B_DKQP
7440-41-7	Beryllium	0.25	U		6020B_DKQP
7440-43-9	Cadmium	0.81	U		6020B_DKQP
7440-70-2	Calcium	98.8	U		6020B_DKQP
7440-47-3	Chromium	2.3	U		6020B_DKQP
7440-48-4	Cobalt	1.6	U		6020B_DKQP
7440-50-8	Copper	2.0	U		6020B_DKQP
7439-89-6	Iron	51.1	U		6020B_DKQP
7439-92-1	Lead	0.55	U		6020B_DKQP
7439-95-4	Magnesium	73.7	U		6020B_DKQP
7439-96-5	Manganese	2.9	U		6020B_DKQP
7440-02-0	Nickel	2.4	U		6020B_DKQP
7440-09-7	Potassium	86.7	U		6020B_DKQP
7782-49-2	Selenium	5.4	U		6020B_DKQP
7440-22-4	Silver	0.59	U		6020B_DKQP
7440-23-5	Sodium	128	U		6020B_DKQP
7440-28-0	Thallium	0.16	U		6020B_DKQP
7440-62-2	Vanadium	1.1	U		6020B_DKQP
7440-66-6	Zinc	11.1	U		6020B_DKQP

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Concentration Units: ug/L Lab Sample ID: MB 460-575860/1-A

Instrument Code: LEEMAN6 Batch No.: 575905

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.12	U		7470A_DKQP

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: ICSA 460-575571/11 Instrument ID: ICPMS4

Lab File ID: 014ICSA.d ICS Source: ME_ICSA_ms_00554

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**50000**	**47904**	**96**
Antimony		**0.0260**	
Arsenic		**-0.0230**	
Barium		**0.143**	
Beryllium		**0.0780**	
Cadmium		**0.109**	
Calcium	**150000**	**149361**	**100**
Chromium		**1.54**	
Cobalt		**0.0040**	
Copper		**0.486**	
Iron	**125000**	**122118**	**98**
Lead		**0.165**	
Magnesium	**50000**	**48807**	**98**
Manganese		**0.239**	
Nickel		**0.103**	
Potassium	**50000**	**46209**	**92**
Selenium		**0.0510**	
Silver		**0.152**	
Sodium	**125000**	**119910**	**96**
Thallium		**0.0900**	
Vanadium		**-0.119**	
Zinc		**0.640**	
B		*1.31*	
Mo	*1000*	*996*	*100*
Sn		*0.191*	
Sr		*1.34*	
Ti	*1000*	*1007*	*101*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Lab Sample ID: ICSAB 460-575571/12 Instrument ID: ICPMS4

Lab File ID: 015ICSB.d ICS Source: ME_ICSAB_ms_00401

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**50000**	**49680**	**99**
Antimony		**0.0570**	
Arsenic	**100**	**102**	**102**
Barium		**0.132**	
Beryllium		**0.0140**	
Cadmium	**100**	**97.7**	**98**
Calcium	**150000**	**147322**	**98**
Chromium	**200**	**200**	**100**
Cobalt	**200**	**199**	**100**
Copper	**200**	**197**	**98**
Iron	**125000**	**125996**	**101**
Lead		**0.0970**	
Magnesium	**50000**	**50471**	**101**
Manganese	**200**	**200**	**100**
Nickel	**200**	**199**	**99**
Potassium	**50000**	**48024**	**96**
Selenium	**100**	**94.7**	**95**
Silver	**200**	**188**	**94**
Sodium	**125000**	**124104**	**99**
Thallium		**0.0770**	
Vanadium	**200**	**202**	**101**
Zinc	**100**	**98.8**	**99**
B		*1.34*	
Mo	*1000*	*981*	*98*
Sn		*0.165*	
Sr		*1.49*	
Ti	*1000*	*1038*	*104*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 460-170953-F-11-D MS ^2

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Concentration Units: ug/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	3367		715		2500	106	75-125		6020B
Antimony	27.35		0.40	U	25.0	109	75-125		6020B
Arsenic	56.09		0.73	U	50.0	112	75-125		6020B
Barium	295.4		237		50.0	116	75-125	4	6020B
Beryllium	29.16		0.37	J	25.0	115	75-125		6020B
Cadmium	27.29		0.81	U	25.0	109	75-125		6020B
Calcium	16160		13600		2500	103	75-125	4	6020B
Chromium	58.78		3.0	J	50.0	111	75-125		6020B
Cobalt	29.22		1.6	U	25.0	117	75-125		6020B
Copper	59.00		4.3		50.0	109	75-125		6020B
Iron	4570		1880		2500	107	75-125		6020B
Lead	31.18		3.3		25.0	112	75-125		6020B
Magnesium	9370		6650		2500	109	75-125		6020B
Manganese	467.5		191		250	111	75-125		6020B
Nickel	58.47		2.6	J	50.0	112	75-125		6020B
Potassium	7907		5040		2500	115	75-125		6020B
Selenium	56.26		5.4	U	50.0	113	75-125		6020B
Silver	27.37		0.59	U	25.0	109	75-125		6020B
Sodium	12880		10100		2500	111	75-125	4	6020B
Thallium	22.04		0.16	U	20.0	110	75-125		6020B
Vanadium	56.39		1.9	J	50.0	109	75-125		6020B
Zinc	293.5		22.3		250	108	75-125		6020B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 460-171159-J-2-A MS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.892		0.12	U	1.00	89	75-125		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: | Lab ID: 460-170953-F-11-C PDS ^2

Lab Name: TestAmerica Edison | Job No.: 460-170982-1

SDG No.: EJ1815811.001

Matrix: Water | Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	1723		715		1000	101	75-125		6020B
Antimony	10.29		0.40	U	10.0	103	75-125		6020B
Arsenic	21.99		0.73	U	20.0	110	75-125		6020B
Barium	263.9		237		20.0	NC	75-125		6020B
Beryllium	11.26		0.37	J	10.0	109	75-125		6020B
Cadmium	10.86		0.81	U	10.0	109	75-125		6020B
Calcium	14610		13600		1000	NC	75-125		6020B
Chromium	23.88		3.0	J	20.0	104	75-125		6020B
Cobalt	11.94		1.6	U	10.0	119	75-125		6020B
Copper	26.23		4.3		20.0	110	75-125		6020B
Iron	2943		1880		1000	106	75-125		6020B
Lead	14.02		3.3		10.0	107	75-125		6020B
Magnesium	7706		6650		1000	105	75-125		6020B
Manganese	298.7		191		100	108	75-125		6020B
Nickel	24.53		2.6	J	20.0	109	75-125		6020B
Potassium	6138		5040		1000	110	75-125		6020B
Selenium	21.00		5.4	U	20.0	105	75-125		6020B
Silver	10.62		0.59	U	10.0	106	75-125		6020B
Sodium	11170		10100		1000	NC	75-125		6020B
Thallium	8.66		0.16	U	8.00	108	75-125		6020B
Vanadium	23.05		1.9	J	20.0	106	75-125		6020B
Zinc	127.5		22.3		100	105	75-125		6020B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 460-170953-B-11-A DU ^2

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

% Solids for Sample: % Solids for Duplicate:

Matrix: Water Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	40.0	715		676.0		6		6020B
Antimony	2.0	0.40	U	0.40	U	NC		6020B
Arsenic	2.0	0.73	U	0.73	U	NC		6020B
Barium	4.0	237		237.5		0		6020B
Beryllium	0.80	0.37	J	0.370	J	0		6020B
Cadmium	2.0	0.81	U	0.81	U	NC		6020B
Calcium	200	13600		13140		3		6020B
Chromium	4.0	3.0	J	2.80	J	8		6020B
Cobalt	4.0	1.6	U	1.6	U	NC		6020B
Copper	4.0	4.3		6.38		38	F5	6020B
Iron	120	1880		1846		2		6020B
Lead	1.2	3.3		3.26		1		6020B
Magnesium	200	6650		6587		1		6020B
Manganese	8.0	191		190.3		0.3		6020B
Nickel	4.0	2.6	J	2.59	J	2		6020B
Potassium	200	5040		4982		1		6020B
Selenium	10.0	5.4	U	5.4	U	NC		6020B
Silver	2.0	0.59	U	0.59	U	NC		6020B
Sodium	200	10100		9953		2		6020B
Thallium	0.80	0.16	U	0.16	U	NC		6020B
Vanadium	4.0	1.9	J	1.83	J	2		6020B
Zinc	16.0	22.3		21.96		2		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 460-171159-A-2-A DU

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

% Solids for Sample: % Solids for Duplicate:

Matrix: Water Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.20	0.12	U	0.12	U	NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

LINEAR RANGE CHECK STANDARD
METALS -

Lab ID: LRC 460-575571/13

Lab Name: TestAmerica Edison Job No.: 460-170982-1

Sample Matrix: Water LCS Source:

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum		9.4	U					6020B
Antimony		0.20	U					6020B
Arsenic	2000	1887		94	90	110		6020B
Barium	5000	4869		97	90	110		6020B
Beryllium	1000	1007		101	90	110		6020B
Cadmium	2000	1934		97	90	110		6020B
Calcium		49.4	U					6020B
Chromium	4000	3777		94	90	110		6020B
Cobalt	1000	1018		102	90	110		6020B
Copper	1000	1029		103	90	110		6020B
Iron		25.6	U					6020B
Lead	5000	4757		95	90	110		6020B
Magnesium		36.9	U					6020B
Manganese	5000	4807		96	90	110		6020B
Nickel	1000	998.9		100	90	110		6020B
Potassium		50.39	J					6020B
Selenium	1000	985.4		99	90	110		6020B
Silver		0.30	U					6020B
Sodium		63.8	U					6020B
Thallium	1000	970.0		97	90	110		6020B
Vanadium	2000	1945		97	90	110		6020B
Zinc	1000	990.8		99	90	110		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

LINEAR RANGE CHECK STANDARD
METALS -

Lab ID: LRC 460-575571/14

Lab Name: TestAmerica Edison Job No.: 460-170982-1

Sample Matrix: Water LCS Source: me_LRC-B_00003

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	50000	47930		96	90	110		6020B
Antimony		0.401	J					6020B
Arsenic		1.26						6020B
Barium		2.30						6020B
Beryllium		0.612						6020B
Cadmium		0.728	J					6020B
Calcium	150000	145400		97	90	110		6020B
Chromium		1.97	J					6020B
Cobalt		5.36						6020B
Copper		1.03	J					6020B
Iron	100000	102900		103	90	110		6020B
Lead		2.45						6020B
Magnesium	150000	144300		96	90	110		6020B
Manganese		3.34	J					6020B
Nickel		4.39						6020B
Potassium	200000	187800		94	90	110		6020B
Selenium		2.7	U					6020B
Silver		0.30	U					6020B
Sodium	200000	189600		95	90	110		6020B
Thallium		0.468						6020B
Vanadium		0.56	U					6020B
Zinc		5.6	U					6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

LINEAR RANGE CHECK STANDARD
METALS -

Lab ID: LRC 460-575571/15

Lab Name: TestAmerica Edison Job No.: 460-170982-1

Sample Matrix: Water LCS Source:

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum		49.33						6020B
Antimony		0.20	U					6020B
Arsenic		0.37	U					6020B
Barium		0.580	J					6020B
Beryllium		0.190	J					6020B
Cadmium		0.40	U					6020B
Calcium		130.9						6020B
Chromium		1.2	U					6020B
Cobalt		0.80	U					6020B
Copper		0.99	U					6020B
Iron		102.8						6020B
Lead		0.735						6020B
Magnesium		136.3						6020B
Manganese		1.4	U					6020B
Nickel		1.2	U					6020B
Potassium		210.9						6020B
Selenium		2.7	U					6020B
Silver		0.30	U					6020B
Sodium		185.7						6020B
Thallium		0.256	J					6020B
Vanadium		0.56	U					6020B
Zinc		5.6	U					6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-575471/2-A ^2

Lab Name: TestAmerica Edison Job No.: 460-170982-1

Sample Matrix: Water LCS Source: ME_ipmsSPK_00034

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	2500	2477		99	80	120		6020B
Antimony	25.0	24.18		97	80	120		6020B
Arsenic	50.0	49.39		99	80	120		6020B
Barium	50.0	48.90		98	80	120		6020B
Beryllium	25.0	25.79		103	80	120		6020B
Cadmium	25.0	23.99		96	80	120		6020B
Calcium	2500	2517		101	80	120		6020B
Chromium	50.0	51.01		102	80	120		6020B
Cobalt	25.0	25.53		102	80	120		6020B
Copper	50.0	51.39		103	80	120		6020B
Iron	2500	2543		102	80	120		6020B
Lead	25.0	25.05		100	80	120		6020B
Magnesium	2500	2507		100	80	120		6020B
Manganese	250	257.3		103	80	120		6020B
Nickel	50.0	50.19		100	80	120		6020B
Potassium	2500	2582		103	80	120		6020B
Selenium	50.0	47.97		96	80	120		6020B
Silver	25.0	24.84		99	80	120		6020B
Sodium	2500	2555		102	80	120		6020B
Thallium	20.0	19.63		98	80	120		6020B
Vanadium	50.0	49.68		99	80	120		6020B
Zinc	250	243.3		97	80	120		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-575860/2-A

Lab Name: TestAmerica Edison Job No.: 460-170982-1

Sample Matrix: Water LCS Source: ME_DCAL-IN_03158

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	1.00	0.951		95	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-170953-F-11-C SD ^10

SDG No: EJ1815811.001

Lab Name: TestAmerica Edison Job No: 460-170982-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	715		646.9		NC		6020B
Antimony	0.40	U	2.0	U	NC		6020B
Arsenic	0.73	U	3.7	U	NC		6020B
Barium	237		252.0		NC		6020B
Beryllium	0.37	J	1.2	U	NC		6020B
Cadmium	0.81	U	4.0	U	NC		6020B
Calcium	13600		14190		NC		6020B
Chromium	3.0	J	11.5	U	NC		6020B
Cobalt	1.6	U	8.0	U	NC		6020B
Copper	4.3		10	U	NC		6020B
Iron	1880		1907		NC		6020B
Lead	3.3		3.50	J	NC		6020B
Magnesium	6650		6731		NC		6020B
Manganese	191		190.5		NC		6020B
Nickel	2.6	J	11.8	U	NC		6020B
Potassium	5040		5165		NC		6020B
Selenium	5.4	U	26.8	U	NC		6020B
Silver	0.59	U	3.0	U	NC		6020B
Sodium	10100		10300		NC		6020B
Thallium	0.16	U	0.79	U	NC		6020B
Vanadium	1.9	J	5.6	U	NC		6020B
Zinc	22.3		55.5	U	NC		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-171159-K-2-A SD ^5

SDG No: EJ1815811.001

Lab Name: TestAmerica Edison Job No: 460-170982-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.12	U	0.58	U	NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-170982-1

SDG Number: EJ1815811.001

Matrix: Water Instrument ID: ICPMS4

Method: 6020B MDL Date: 11/01/2018 09:03

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Aluminum		40	18.8
Antimony		2	0.399
Arsenic		2	0.734
Barium		4	1.16
Beryllium		0.8	0.245
Cadmium		2	0.808
Calcium		200	98.8
Chromium		4	2.3
Cobalt		4	1.6
Copper		4	1.99
Iron		120	51.1
Lead		1.2	0.552
Magnesium		200	73.7
Manganese		8	2.88
Nickel		4	2.36
Potassium		200	86.7
Selenium		10	5.35
Silver		2	0.591
Sodium		200	128
Thallium		0.8	0.157
Vanadium		4	1.11
Zinc		16	11.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-170982-1

SDG Number: EJ1815811.001

Matrix: Water Instrument ID: ICPMS4

Method: 6020B XMDL Date: 11/01/2018 09:05

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		20	9.39
Antimony		1	0.199
Arsenic		1	0.367
Barium		2	0.578
Beryllium		0.4	0.123
Cadmium		1	0.404
Calcium		100	49.4
Chromium		2	1.15
Cobalt		2	0.8
Copper		2	0.994
Iron		60	25.6
Lead		0.6	0.276
Magnesium		100	36.9
Manganese		4	1.44
Nickel		2	1.18
Potassium		100	43.3
Selenium		5	2.67
Silver		1	0.296
Sodium		100	63.8
Thallium		0.4	0.078
Vanadium		2	0.557
Zinc		8	5.55

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-170982-1

SDG Number: EJ1815811.001

Matrix: Water Instrument ID: LEEMAN6

Method: 7470A MDL Date: 04/16/2018 13:27

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.115

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-170982-1

SDG Number: EJ1815811.001

Matrix: Water Instrument ID: LEEMAN6

Method: 7470A XMDL Date: 04/16/2018 13:27

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.115

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Edison Job No: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Date: 09/13/2018 11:11

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum		50000	6020B
Antimony		100	6020B
Arsenic		2000	6020B
Barium		5000	6020B
Beryllium		1000	6020B
Cadmium		2000	6020B
Calcium		150000	6020B
Chromium		4000	6020B
Cobalt		1000	6020B
Copper		1000	6020B
Iron		100000	6020B
Lead		5000	6020B
Magnesium		150000	6020B
Manganese		5000	6020B
Nickel		1000	6020B
Potassium		200000	6020B
Selenium		1000	6020B
Silver		100	6020B
Sodium		200000	6020B
Thallium		1000	6020B
Vanadium		2000	6020B
Zinc		1000	6020B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-575471/1-A ^2	12/13/2018 09:31	575471		50	50
LCS 460-575471/2-A ^2	12/13/2018 09:31	575471		50	50
460-170953-B-11-A DU ^2	12/13/2018 09:31	575471		50	50
460-170953-F-11-D MS ^2	12/13/2018 09:31	575471		50	50
460-170982-1	12/13/2018 09:45	575471		50	50
460-170982-2	12/13/2018 09:45	575471		50	50
460-170982-3	12/13/2018 09:45	575471		50	50
460-170982-4	12/13/2018 09:45	575471		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-575860/1-A	12/14/2018 13:09	575860		30	30
LCS 460-575860/2-A	12/14/2018 13:09	575860		30	30
460-171159-A-2-A DU	12/14/2018 13:09	575860		30	30
460-171159-J-2-A MS	12/14/2018 13:09	575860		30	30
460-170982-1	12/14/2018 13:09	575860		30	30
460-170982-2	12/14/2018 13:09	575860		30	30
460-170982-3	12/14/2018 13:09	575860		30	30
460-170982-4	12/14/2018 13:09	575860		30	30

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
IC 460-575571/1	1		14:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 460-575571/2	1		14:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 460-575571/3	1		14:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 460-575571/4	1		14:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 460-575571/5	1		15:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 460-575571/6	1		15:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 460-575571/7	1		15:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-575571/8	1		15:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-575571/9	1		15:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 460-575571/10			15:15																				
ICSA 460-575571/11	1		15:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-575571/12	1		15:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LRC 460-575571/13	1		15:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LRC 460-575571/14	1		15:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LRC 460-575571/15	1		15:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:31																				
ZZZZZZ			15:34																				
ZZZZZZ			15:37																				
CCV 460-575571/19	1		15:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-575571/20	1		15:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-575571/21	1		15:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 460-575471/1-A ^2	2	T	15:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 460-575471/2-A ^2	2	T	15:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-170953-F-11-C PDS ^2	2	T	15:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-170953-F-11-D MS ^2	2	T	15:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-170953-B-11-A DU ^2	2	T	15:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:01																				
ZZZZZZ			16:03																				
460-170953-F-11-C SD ^10	10	T	16:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 460-575571/30	1		16:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-575571/31	1		16:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-575571/32	1		16:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:17																				
ZZZZZZ			16:19																				
ZZZZZZ			16:22																				
ZZZZZZ			16:25																				
ZZZZZZ			16:28																				
ZZZZZZ			16:30																				
ZZZZZZ			16:33																				
ZZZZZZ			16:36																				

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCV 460-575571/41			16:38																				
CCB 460-575571/42			16:41																				
CCVL 460-575571/43			16:44																				
ZZZZZZ			16:46																				
ZZZZZZ			16:49																				
ZZZZZZ			16:52																				
ZZZZZZ			16:55																				
ZZZZZZ			16:57																				
ZZZZZZ			17:00																				
ZZZZZZ			17:03																				
ZZZZZZ			17:05																				
CCV 460-575571/52			17:08																				
CCB 460-575571/53			17:11																				
CCVL 460-575571/54			17:13																				
ZZZZZZ			17:16																				
ZZZZZZ			17:19																				
ZZZZZZ			17:21																				
ZZZZZZ			17:24																				
ZZZZZZ			17:27																				
ZZZZZZ			17:30																				
ZZZZZZ			17:32																				
ZZZZZZ			17:35																				
CCV 460-575571/63			17:38																				
CCB 460-575571/64			17:40																				
CCVL 460-575571/65			17:43																				
ZZZZZZ			17:46																				
ZZZZZZ			17:48																				
ZZZZZZ			17:51																				
ZZZZZZ			17:54																				
ZZZZZZ			17:57																				
ZZZZZZ			18:00																				
ZZZZZZ			18:03																				
ZZZZZZ			18:05																				
ZZZZZZ			18:08																				
CCV 460-575571/75			18:11																				
CCB 460-575571/76			18:13																				
CCVL 460-575571/77			18:16																				
ZZZZZZ			18:19																				
ZZZZZZ			18:21																				
ZZZZZZ			18:24																				
ZZZZZZ			18:27																				
ZZZZZZ			18:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			18:32																				
ZZZZZZ			18:35																				
ZZZZZZ			18:37																				
ZZZZZZ			18:40																				
CCV 460-575571/87			18:43																				
CCB 460-575571/88			18:46																				
CCVL 460-575571/89			18:48																				
ZZZZZZ			18:51																				
ZZZZZZ			18:54																				
ZZZZZZ			18:56																				
ZZZZZZ			18:59																				
ZZZZZZ			19:02																				
ZZZZZZ			19:04																				
ZZZZZZ			19:07																				
ZZZZZZ			19:10																				
CCV 460-575571/98			19:12																				
CCB 460-575571/99			19:15																				
CCVL 460-575571/100			19:18																				
ZZZZZZ			19:20																				
ZZZZZZ			19:23																				
ZZZZZZ			19:26																				
ZZZZZZ			19:29																				
ZZZZZZ			19:31																				
ZZZZZZ			19:34																				
ZZZZZZ			19:37																				
ZZZZZZ			19:39																				
ZZZZZZ			19:42																				
CCV 460-575571/110	1		19:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-575571/111	1		19:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-575571/112	1		19:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:53																				
ZZZZZZ			19:55																				
ZZZZZZ			19:58																				
460-170982-1	2	T	20:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
460-170982-2	2	T	20:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:06																				
460-170982-3	2	T	20:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:12																				
460-170982-4	2	T	20:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 460-575571/122	1		20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-575571/123	1		20:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-575571/124	1		20:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			20:25																				
ZZZZZZ			20:28																				
ZZZZZZ			20:30																				
ZZZZZZ			20:33																				
ZZZZZZ			20:36																				
ZZZZZZ			20:39																				
ZZZZZZ			20:41																				
ZZZZZZ			20:44																				
ZZZZZZ			20:47																				
CCV 460-575571/134			20:49																				
CCB 460-575571/135			20:52																				
CCVL 460-575571/136			20:55																				
ZZZZZZ			20:57																				
ZZZZZZ			21:00																				
ZZZZZZ			21:03																				
ZZZZZZ			21:06																				
ZZZZZZ			21:08																				
ZZZZZZ			21:11																				
ZZZZZZ			21:14																				
ZZZZZZ			21:16																				
ZZZZZZ			21:19																				
ZZZZZZ			21:22																				
CCV 460-575571/147			21:24																				
CCB 460-575571/148			21:27																				
CCVL 460-575571/149			21:30																				
ZZZZZZ			21:32																				
ZZZZZZ			21:35																				
ZZZZZZ			21:38																				
ZZZZZZ			21:41																				
ZZZZZZ			21:43																				
ZZZZZZ			21:46																				
ZZZZZZ			21:49																				
ZZZZZZ			21:51																				
ZZZZZZ			21:54																				
ZZZZZZ			21:57																				
CCV 460-575571/160			21:59																				
CCB 460-575571/161			22:02																				
CCVL 460-575571/162			22:05																				
ZZZZZZ			22:07																				
ZZZZZZ			22:10																				
ZZZZZZ			22:13																				
ZZZZZZ			22:16																				

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			22:18																					
ZZZZZZ			22:21																					
ZZZZZZ			22:24																					
ZZZZZZ			22:26																					
ZZZZZZ			22:29																					
ZZZZZZ			22:32																					
CCV 460-575571/173			22:34																					
CCB 460-575571/174			22:37																					
CCVL 460-575571/175			22:40																					
ZZZZZZ			22:43																					
ZZZZZZ			22:45																					
ZZZZZZ			22:48																					
ZZZZZZ			22:51																					
ZZZZZZ			22:53																					
ZZZZZZ			22:56																					
ZZZZZZ			22:59																					
ZZZZZZ			23:01																					
ZZZZZZ			23:04																					
ZZZZZZ			23:07																					
CCV 460-575571/186			23:10																					
CCB 460-575571/187			23:12																					
CCVL 460-575571/188			23:15																					
ZZZZZZ			23:18																					
ZZZZZZ			23:20																					
ZZZZZZ			23:23																					
ZZZZZZ			23:26																					
ZZZZZZ			23:28																					
ZZZZZZ			23:31																					
ZZZZZZ			23:34																					
ZZZZZZ			23:36																					
ZZZZZZ			23:39																					
ZZZZZZ			23:42																					
CCV 460-575571/199			23:44																					
CCB 460-575571/200			23:47																					
CCVL 460-575571/201			23:50																					
ZZZZZZ			23:52																					
ZZZZZZ			23:55																					
ZZZZZZ			23:58																					
ZZZZZZ			00:01																					
ZZZZZZ			00:03																					
CCV 460-575571/207			00:06																					
CCB 460-575571/208			00:09																					

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCVL 460-575571/209			00:11																				
ZZZZZZ			00:14																				
ZZZZZZ			00:17																				
ZZZZZZ			00:19																				
ZZZZZZ			00:22																				
ZZZZZZ			00:25																				
ZZZZZZ			00:27																				
ZZZZZZ			00:30																				
ZZZZZZ			00:33																				
ZZZZZZ			00:35																				
ZZZZZZ			00:38																				
CCV 460-575571/220			00:41																				
CCB 460-575571/221			00:43																				
CCVL 460-575571/222			00:46																				
ZZZZZZ			00:49																				
ZZZZZZ			00:52																				
ZZZZZZ			00:54																				
ZZZZZZ			00:57																				
ZZZZZZ			01:00																				
ZZZZZZ			01:02																				
ZZZZZZ			01:05																				
ZZZZZZ			01:08																				
ZZZZZZ			01:10																				
ZZZZZZ			01:13																				
CCV 460-575571/233			01:16																				
CCB 460-575571/234			01:18																				
CCVL 460-575571/235			01:21																				
ZZZZZZ			01:24																				
ZZZZZZ			01:26																				
ZZZZZZ			01:29																				
ZZZZZZ			01:32																				
ZZZZZZ			01:34																				
ZZZZZZ			01:37																				
ZZZZZZ			01:40																				
ZZZZZZ			01:42																				
ZZZZZZ			01:45																				
CCV 460-575571/245			01:48																				
CCB 460-575571/246			01:51																				
CCVL 460-575571/247			01:53																				
ZZZZZZ			01:56																				
ZZZZZZ			01:59																				
ZZZZZZ			02:01																				

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			02:04																					
ZZZZZZ			02:07																					
ZZZZZZ			02:09																					
ZZZZZZ			02:12																					
ZZZZZZ			02:15																					
ZZZZZZ			02:17																					
ZZZZZZ			02:20																					
CCV 460-575571/258			02:23																					
CCB 460-575571/259			02:25																					
CCVL 460-575571/260			02:28																					
ZZZZZZ			02:31																					
ZZZZZZ			02:33																					
ZZZZZZ			02:36																					
ZZZZZZ			02:39																					
ZZZZZZ			02:41																					
ZZZZZZ			02:44																					
ZZZZZZ			02:47																					
ZZZZZZ			02:50																					
ZZZZZZ			02:52																					
ZZZZZZ			02:55																					
CCV 460-575571/271			02:58																					
CCB 460-575571/272			03:00																					
CCVL 460-575571/273			03:03																					
ZZZZZZ			03:06																					
ZZZZZZ			03:08																					
ZZZZZZ			03:11																					
ZZZZZZ			03:14																					
CCV 460-575571/278			03:16																					
CCB 460-575571/279			03:19																					
CCVL 460-575571/280			03:22																					

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
IC 460-575571/1	1		14:51	X	X																		
IC 460-575571/2	1		14:54	X	X																		
IC 460-575571/3	1		14:56	X	X																		
IC 460-575571/4	1		14:59	X	X																		
IC 460-575571/5	1		15:02	X	X																		
IC 460-575571/6	1		15:04	X	X																		
ICV 460-575571/7	1		15:07	X	X																		
ICB 460-575571/8	1		15:10	X	X																		
ICVL 460-575571/9	1		15:12	X	X																		
CRI 460-575571/10			15:15																				
ICSA 460-575571/11	1		15:18	X	X																		
ICSAB 460-575571/12	1		15:20	X	X																		
LRC 460-575571/13	1		15:23	X	X																		
LRC 460-575571/14	1		15:26	X	X																		
LRC 460-575571/15	1		15:28	X	X																		
ZZZZZZ			15:31																				
ZZZZZZ			15:34																				
ZZZZZZ			15:37																				
CCV 460-575571/19	1		15:39	X	X																		
CCB 460-575571/20	1		15:42	X	X																		
CCVL 460-575571/21	1		15:45	X	X																		
MB 460-575471/1-A ^2	2	T	15:47	X	X																		
LCS 460-575471/2-A ^2	2	T	15:50	X	X																		
460-170953-F-11-C PDS ^2	2	T	15:53	X	X																		
460-170953-F-11-D MS ^2	2	T	15:55	X	X																		
460-170953-B-11-A DU ^2	2	T	15:58	X	X																		
ZZZZZZ			16:01																				
ZZZZZZ			16:03																				
460-170953-F-11-C SD ^10	10	T	16:06	X	X																		
CCV 460-575571/30	1		16:09	X	X																		
CCB 460-575571/31	1		16:11	X	X																		
CCVL 460-575571/32	1		16:14	X	X																		
ZZZZZZ			16:17																				
ZZZZZZ			16:19																				
ZZZZZZ			16:22																				
ZZZZZZ			16:25																				
ZZZZZZ			16:28																				
ZZZZZZ			16:30																				
ZZZZZZ			16:33																				
ZZZZZZ			16:36																				

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCV 460-575571/41			16:38																				
CCB 460-575571/42			16:41																				
CCVL 460-575571/43			16:44																				
ZZZZZZ			16:46																				
ZZZZZZ			16:49																				
ZZZZZZ			16:52																				
ZZZZZZ			16:55																				
ZZZZZZ			16:57																				
ZZZZZZ			17:00																				
ZZZZZZ			17:03																				
ZZZZZZ			17:05																				
CCV 460-575571/52			17:08																				
CCB 460-575571/53			17:11																				
CCVL 460-575571/54			17:13																				
ZZZZZZ			17:16																				
ZZZZZZ			17:19																				
ZZZZZZ			17:21																				
ZZZZZZ			17:24																				
ZZZZZZ			17:27																				
ZZZZZZ			17:30																				
ZZZZZZ			17:32																				
ZZZZZZ			17:35																				
CCV 460-575571/63			17:38																				
CCB 460-575571/64			17:40																				
CCVL 460-575571/65			17:43																				
ZZZZZZ			17:46																				
ZZZZZZ			17:48																				
ZZZZZZ			17:51																				
ZZZZZZ			17:54																				
ZZZZZZ			17:57																				
ZZZZZZ			18:00																				
ZZZZZZ			18:03																				
ZZZZZZ			18:05																				
ZZZZZZ			18:08																				
CCV 460-575571/75			18:11																				
CCB 460-575571/76			18:13																				
CCVL 460-575571/77			18:16																				
ZZZZZZ			18:19																				
ZZZZZZ			18:21																				
ZZZZZZ			18:24																				
ZZZZZZ			18:27																				
ZZZZZZ			18:29																				

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			18:32																				
ZZZZZZ			18:35																				
ZZZZZZ			18:37																				
ZZZZZZ			18:40																				
CCV 460-575571/87			18:43																				
CCB 460-575571/88			18:46																				
CCVL 460-575571/89			18:48																				
ZZZZZZ			18:51																				
ZZZZZZ			18:54																				
ZZZZZZ			18:56																				
ZZZZZZ			18:59																				
ZZZZZZ			19:02																				
ZZZZZZ			19:04																				
ZZZZZZ			19:07																				
ZZZZZZ			19:10																				
CCV 460-575571/98			19:12																				
CCB 460-575571/99			19:15																				
CCVL 460-575571/100			19:18																				
ZZZZZZ			19:20																				
ZZZZZZ			19:23																				
ZZZZZZ			19:26																				
ZZZZZZ			19:29																				
ZZZZZZ			19:31																				
ZZZZZZ			19:34																				
ZZZZZZ			19:37																				
ZZZZZZ			19:39																				
ZZZZZZ			19:42																				
CCV 460-575571/110	1		19:45	X	X																		
CCB 460-575571/111	1		19:47	X	X																		
CCVL 460-575571/112	1		19:50	X	X																		
ZZZZZZ			19:53																				
ZZZZZZ			19:55																				
ZZZZZZ			19:58																				
460-170982-1	2	T	20:01	X	X																		
460-170982-2	2	T	20:04	X	X																		
ZZZZZZ			20:06																				
460-170982-3	2	T	20:09	X	X																		
ZZZZZZ			20:12																				
460-170982-4	2	T	20:14	X	X																		
CCV 460-575571/122	1		20:17	X	X																		
CCB 460-575571/123	1		20:20	X	X																		
CCVL 460-575571/124	1		20:22	X	X																		

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			20:25																				
ZZZZZZ			20:28																				
ZZZZZZ			20:30																				
ZZZZZZ			20:33																				
ZZZZZZ			20:36																				
ZZZZZZ			20:39																				
ZZZZZZ			20:41																				
ZZZZZZ			20:44																				
ZZZZZZ			20:47																				
CCV 460-575571/134			20:49																				
CCB 460-575571/135			20:52																				
CCVL 460-575571/136			20:55																				
ZZZZZZ			20:57																				
ZZZZZZ			21:00																				
ZZZZZZ			21:03																				
ZZZZZZ			21:06																				
ZZZZZZ			21:08																				
ZZZZZZ			21:11																				
ZZZZZZ			21:14																				
ZZZZZZ			21:16																				
ZZZZZZ			21:19																				
ZZZZZZ			21:22																				
CCV 460-575571/147			21:24																				
CCB 460-575571/148			21:27																				
CCVL 460-575571/149			21:30																				
ZZZZZZ			21:32																				
ZZZZZZ			21:35																				
ZZZZZZ			21:38																				
ZZZZZZ			21:41																				
ZZZZZZ			21:43																				
ZZZZZZ			21:46																				
ZZZZZZ			21:49																				
ZZZZZZ			21:51																				
ZZZZZZ			21:54																				
ZZZZZZ			21:57																				
CCV 460-575571/160			21:59																				
CCB 460-575571/161			22:02																				
CCVL 460-575571/162			22:05																				
ZZZZZZ			22:07																				
ZZZZZZ			22:10																				
ZZZZZZ			22:13																				
ZZZZZZ			22:16																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			22:18																				
ZZZZZZ			22:21																				
ZZZZZZ			22:24																				
ZZZZZZ			22:26																				
ZZZZZZ			22:29																				
ZZZZZZ			22:32																				
CCV 460-575571/173			22:34																				
CCB 460-575571/174			22:37																				
CCVL 460-575571/175			22:40																				
ZZZZZZ			22:43																				
ZZZZZZ			22:45																				
ZZZZZZ			22:48																				
ZZZZZZ			22:51																				
ZZZZZZ			22:53																				
ZZZZZZ			22:56																				
ZZZZZZ			22:59																				
ZZZZZZ			23:01																				
ZZZZZZ			23:04																				
ZZZZZZ			23:07																				
CCV 460-575571/186			23:10																				
CCB 460-575571/187			23:12																				
CCVL 460-575571/188			23:15																				
ZZZZZZ			23:18																				
ZZZZZZ			23:20																				
ZZZZZZ			23:23																				
ZZZZZZ			23:26																				
ZZZZZZ			23:28																				
ZZZZZZ			23:31																				
ZZZZZZ			23:34																				
ZZZZZZ			23:36																				
ZZZZZZ			23:39																				
ZZZZZZ			23:42																				
CCV 460-575571/199			23:44																				
CCB 460-575571/200			23:47																				
CCVL 460-575571/201			23:50																				
ZZZZZZ			23:52																				
ZZZZZZ			23:55																				
ZZZZZZ			23:58																				
ZZZZZZ			00:01																				
ZZZZZZ			00:03																				
CCV 460-575571/207			00:06																				
CCB 460-575571/208			00:09																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCVL 460-575571/209			00:11																				
ZZZZZZ			00:14																				
ZZZZZZ			00:17																				
ZZZZZZ			00:19																				
ZZZZZZ			00:22																				
ZZZZZZ			00:25																				
ZZZZZZ			00:27																				
ZZZZZZ			00:30																				
ZZZZZZ			00:33																				
ZZZZZZ			00:35																				
ZZZZZZ			00:38																				
CCV 460-575571/220			00:41																				
CCB 460-575571/221			00:43																				
CCVL 460-575571/222			00:46																				
ZZZZZZ			00:49																				
ZZZZZZ			00:52																				
ZZZZZZ			00:54																				
ZZZZZZ			00:57																				
ZZZZZZ			01:00																				
ZZZZZZ			01:02																				
ZZZZZZ			01:05																				
ZZZZZZ			01:08																				
ZZZZZZ			01:10																				
ZZZZZZ			01:13																				
CCV 460-575571/233			01:16																				
CCB 460-575571/234			01:18																				
CCVL 460-575571/235			01:21																				
ZZZZZZ			01:24																				
ZZZZZZ			01:26																				
ZZZZZZ			01:29																				
ZZZZZZ			01:32																				
ZZZZZZ			01:34																				
ZZZZZZ			01:37																				
ZZZZZZ			01:40																				
ZZZZZZ			01:42																				
ZZZZZZ			01:45																				
CCV 460-575571/245			01:48																				
CCB 460-575571/246			01:51																				
CCVL 460-575571/247			01:53																				
ZZZZZZ			01:56																				
ZZZZZZ			01:59																				
ZZZZZZ			02:01																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: ICPMS4 Method: 6020B

Start Date: 12/13/2018 14:51 End Date: 12/14/2018 03:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			02:04																				
ZZZZZZ			02:07																				
ZZZZZZ			02:09																				
ZZZZZZ			02:12																				
ZZZZZZ			02:15																				
ZZZZZZ			02:17																				
ZZZZZZ			02:20																				
CCV 460-575571/258			02:23																				
CCB 460-575571/259			02:25																				
CCVL 460-575571/260			02:28																				
ZZZZZZ			02:31																				
ZZZZZZ			02:33																				
ZZZZZZ			02:36																				
ZZZZZZ			02:39																				
ZZZZZZ			02:41																				
ZZZZZZ			02:44																				
ZZZZZZ			02:47																				
ZZZZZZ			02:50																				
ZZZZZZ			02:52																				
ZZZZZZ			02:55																				
CCV 460-575571/271			02:58																				
CCB 460-575571/272			03:00																				
CCVL 460-575571/273			03:03																				
ZZZZZZ			03:06																				
ZZZZZZ			03:08																				
ZZZZZZ			03:11																				
ZZZZZZ			03:14																				
CCV 460-575571/278			03:16																				
CCB 460-575571/279			03:19																				
CCVL 460-575571/280			03:22																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 12/14/2018 14:16 End Date: 12/14/2018 17:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICIS 460-575905/1			14:16	X																			
IC 460-575860/26-A			14:18	X																			
IC 460-575860/27-A			14:20	X																			
IC 460-575860/28-A			14:21	X																			
IC 460-575860/29-A			14:23	X																			
IC 460-575860/30-A			14:25	X																			
ICV 460-575860/31-A	1		14:27	X																			
ICB 460-575905/8	1		14:28	X																			
CRI 460-575905/9	1		14:30	X																			
ZZZZZZ			14:32																				
ZZZZZZ			14:34																				
CCV 460-575860/33-A	1		14:35	X																			
CCB 460-575905/13	1		14:37	X																			
MB 460-575860/1-A	1	T	14:39	X																			
LCS 460-575860/2-A	1	T	14:40	X																			
ZZZZZZ			14:42																				
460-171159-A-2-A DU	1	T	14:44	X																			
460-171159-J-2-A MS	1	T	14:46	X																			
460-171159-K-2-A SD ^5	5	T	14:47	X																			
ZZZZZZ			14:49																				
ZZZZZZ			14:51																				
ZZZZZZ			14:52																				
ZZZZZZ			14:54																				
CCV 460-575860/33-A	1		14:56	X																			
CCB 460-575905/25	1		14:58	X																			
ZZZZZZ			14:59																				
ZZZZZZ			15:01																				
ZZZZZZ			15:03																				
ZZZZZZ			15:04																				
ZZZZZZ			15:06																				
ZZZZZZ			15:08																				
ZZZZZZ			15:10																				
ZZZZZZ			15:11																				
460-170982-1	1	T	15:13	X																			
460-170982-2	1	T	15:15	X																			
CCV 460-575860/33-A	1		15:16	X																			
CCB 460-575905/37	1		15:18	X																			
460-170982-3	1	T	15:20	X																			
460-170982-4	1	T	15:22	X																			
ZZZZZZ			15:23																				
ZZZZZZ			15:25																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 12/14/2018 14:16 End Date: 12/14/2018 17:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:27																				
ZZZZZZ			15:29																				
ZZZZZZ			15:30																				
ZZZZZZ			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:35																				
CCV 460-575860/33-A	1		15:37	X																			
CCB 460-575905/49	1		15:39	X																			
ZZZZZZ			15:41																				
CCV 460-575860/33-A			15:49																				
CCB 460-575905/52			15:50																				
ZZZZZZ			15:52																				
ZZZZZZ			15:54																				
ZZZZZZ			15:56																				
ZZZZZZ			15:57																				
ZZZZZZ			15:59																				
ZZZZZZ			16:01																				
ZZZZZZ			16:03																				
ZZZZZZ			16:04																				
ZZZZZZ			16:06																				
ZZZZZZ			16:08																				
CCV 460-575860/33-A			16:09																				
CCB 460-575905/64			16:11																				
ZZZZZZ			16:13																				
ZZZZZZ			16:15																				
ZZZZZZ			16:16																				
ZZZZZZ			16:18																				
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
ZZZZZZ			16:23																				
ZZZZZZ			16:25																				
ZZZZZZ			16:27																				
ZZZZZZ			16:28																				
CCV 460-575860/33-A			16:30																				
CCB 460-575905/76			16:32																				
ZZZZZZ			16:33																				
ZZZZZZ			16:35																				
ZZZZZZ			16:37																				
ZZZZZZ			16:39																				
ZZZZZZ			16:40																				
ZZZZZZ			16:42																				
ZZZZZZ			16:44																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Instrument ID: LEEMAN6 Method: 7470A

Start Date: 12/14/2018 14:16 End Date: 12/14/2018 17:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:45																				
ZZZZZZ			16:47																				
ZZZZZZ			16:49																				
CCV 460-575860/33-A			16:51																				
CCB 460-575905/88			16:52																				
ZZZZZZ			16:54																				
ZZZZZZ			16:56																				
ZZZZZZ			16:58																				
ZZZZZZ			16:59																				
ZZZZZZ			17:01																				
ZZZZZZ			17:03																				
ZZZZZZ			17:04																				
ZZZZZZ			17:06																				
ZZZZZZ			17:08																				
ZZZZZZ			17:10																				
CCV 460-575860/33-A			17:11																				
CCB 460-575905/100			17:13																				
ZZZZZZ			17:15																				
ZZZZZZ			17:16																				
ZZZZZZ			17:18																				
ZZZZZZ			17:20																				
CCV 460-575860/33-A			17:22																				
CCB 460-575905/106			17:23																				

Prep Types

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICP-MS Instrument ID: ICPMS4 Start Date: 12/13/2018 End Date: 12/13/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/2	Q	Element Sc/3	Q	Element Ge/2	Q	Element Ge/3	Q
IC 460-575571/1	14:51	100		100		100		100		100	
IC 460-575571/2	14:54	104		109		109		107		108	
IC 460-575571/3	14:56	101		104		106		106		108	
IC 460-575571/4	14:59	103		106		101		109		106	
IC 460-575571/5	15:02	93		94		93		100		100	
IC 460-575571/6	15:04	91		92		94		103		102	
ICV 460-575571/7	15:07	99		102		102		109		105	
ICB 460-575571/8	15:10	98		100		98		100		98	
ICVL 460-575571/9	15:12	97		96		99		98		98	
CRI 460-575571/10	15:15	99		104		104		104		102	
ICSA 460-575571/11	15:18	91		98		101		105		106	
ICSAB 460-575571/12	15:20	90		101		98		111		108	
LRC 460-575571/13	15:23	101		103		105		119		110	
LRC 460-575571/14	15:26	85		100		96		107		103	
LRC 460-575571/15	15:28	102		114		108		114		105	
CCV 460-575571/19	15:39	101		102		105		108		111	
CCB 460-575571/20	15:42	106		105		108		107		108	
CCVL 460-575571/21	15:45	107		106		108		108		109	
MB 460-575471/1-A ^2	15:47	101		98		101		101		102	
LCS 460-575471/2-A ^2	15:50	92		93		93		100		101	
460-170953-F-11-C PDS ^2	15:53	97		96		97		104		107	
460-170953-F-11-D MS ^2	15:55	88		85		91		96		101	
460-170953-B-11-A DU ^2	15:58	100		95		99		105		109	
460-170953-F-11-C SD ^10	16:06	98		98		102		108		107	
CCV 460-575571/30	16:09	95		97		95		103		101	
CCB 460-575571/31	16:11	94		94		97		96		97	
CCVL 460-575571/32	16:14	99		95		99		97		100	
CCV 460-575571/110	19:45	87		87		90		93		94	
CCB 460-575571/111	19:47	88		85		89		88		89	
CCVL 460-575571/112	19:50	89		85		91		87		92	
460-170982-1	20:01	81		81		80		86		87	
460-170982-2	20:04	76		77		83		84		88	
460-170982-3	20:09	86		82		85		87		93	
460-170982-4	20:14	83		78		82		80		83	
CCV 460-575571/122	20:17	84		80		85		87		91	
CCB 460-575571/123	20:20	90		83		85		85		85	
CCVL 460-575571/124	20:22	89		85		86		84		86	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

ICP-MS Instrument ID: ICPMS4 Start Date: 12/13/2018 End Date: 12/13/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In	Q	Element Tb	Q	Element Bi	Q	Element	Q	Element	Q
IC 460-575571/1	14:51	100		100		100					
IC 460-575571/2	14:54	108		107		106					
IC 460-575571/3	14:56	106		105		105					
IC 460-575571/4	14:59	105		104		103					
IC 460-575571/5	15:02	94		93		92					
IC 460-575571/6	15:04	92		93		91					
ICV 460-575571/7	15:07	99		100		100					
ICB 460-575571/8	15:10	98		97		97					
ICVL 460-575571/9	15:12	99		98		97					
CRI 460-575571/10	15:15	102		101		102					
ICSA 460-575571/11	15:18	98		99		95					
ICSAB 460-575571/12	15:20	98		98		94					
LRC 460-575571/13	15:23	105		103		109					
LRC 460-575571/14	15:26	95		95		90					
LRC 460-575571/15	15:28	109		105		106					
CCV 460-575571/19	15:39	103		101		101					
CCB 460-575571/20	15:42	106		106		105					
CCVL 460-575571/21	15:45	105		105		104					
MB 460-575471/1-A ^2	15:47	101		98		98					
LCS 460-575471/2-A ^2	15:50	94		91		92					
460-170953-F-11-C PDS ^2	15:53	97		95		94					
460-170953-F-11-D MS ^2	15:55	89		89		87					
460-170953-B-11-A DU ^2	15:58	99		99		99					
460-170953-F-11-C SD ^10	16:06	100		100		100					
CCV 460-575571/30	16:09	95		94		94					
CCB 460-575571/31	16:11	98		94		95					
CCVL 460-575571/32	16:14	98		97		98					
CCV 460-575571/110	19:45	89		88		88					
CCB 460-575571/111	19:47	88		87		88					
CCVL 460-575571/112	19:50	90		89		90					
460-170982-1	20:01	81		82		80					
460-170982-2	20:04	78		80		76					
460-170982-3	20:09	84		85		84					
460-170982-4	20:14	82		80		82					
CCV 460-575571/122	20:17	83		84		84					
CCB 460-575571/123	20:20	86		85		86					
CCVL 460-575571/124	20:22	87		87		87					

FORM XV - IN

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 575471 Batch Start Date: 12/13/18 08:00 Batch Analyst: Yang, Qin

Batch Method: 3010A Batch End Date: 12/13/18 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_ipmsSPK 00034			
MB 460-575471/1		3010A, 6020B		50 mL	50 mL				
LCS 460-575471/2		3010A, 6020B		50 mL	50 mL	0.25 mL			
460-170953-B-11 DU		3010A, 6020B	T	50 mL	50 mL				
460-170953-F-11 MS		3010A, 6020B	T	50 mL	50 mL	0.25 mL			
460-170982-D-1	9999-23-MW01-GW01-12052018	3010A, 6020B	T	50 mL	50 mL				
460-170982-D-2	9999-23-MW02-GW01-12052018	3010A, 6020B	T	50 mL	50 mL				
460-170982-D-3	9999-23-MW03-GW01-12052018	3010A, 6020B	T	50 mL	50 mL				
460-170982-C-4	9999-23-FB-BK01-12052018	3010A, 6020B	T	50 mL	50 mL				

Batch Notes	
Batch Comment	1:1 HCL MPR 356
Temperature - Corrected - End	95 corr Degrees C
Temperature - Corrected - Start	95 corr Degrees C
Digestion Unit ID	# 9
Nitric Acid ID	0000200458
Pipette/Syringe/Dispenser ID	# 43
Thermometer ID	ICP -3 (CF -2)
Digestion Tube/Cup ID	316621-4503 (100ml Digi T ube)
Temperature - Uncorrected - End	97 uncorr Degrees C
Temperature - Uncorrected - Start	97 uncorr Degrees C

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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 575860 Batch Start Date: 12/14/18 10:00 Batch Analyst: Sheikh, Razia B

Batch Method: 7470A Batch End Date: 12/14/18 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_DCAL-IN 03158	ME_DQCS-INT 02889		
MB 460-575860/1		7470A, 7470A		30 mL	30 mL				
LCS 460-575860/2		7470A, 7470A		30 mL	30 mL	0.3 mL			
460-171159-A-2 DU		7470A, 7470A	T	30 mL	30 mL				
460-171159-J-2 MS		7470A, 7470A	T	30 mL	30 mL	0.3 mL			
460-170982-D-1	9999-23-MW01-GW01-12052018	7470A, 7470A	T	30 mL	30 mL				
460-170982-D-2	9999-23-MW02-GW01-12052018	7470A, 7470A	T	30 mL	30 mL				
460-170982-D-3	9999-23-MW03-GW01-12052018	7470A, 7470A	T	30 mL	30 mL				
460-170982-C-4	9999-23-FB-BK01-12052018	7470A, 7470A	T	30 mL	30 mL				
ICV 460-575860/31		7470A, 7470A		30 mL	30 mL		1.5 mL		
CCV 460-575860/33		7470A, 7470A		30 mL	30 mL	1.5 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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-170982-1

SDG No.: EJ1815811.001

Batch Number: 575860 Batch Start Date: 12/14/18 10:00 Batch Analyst: Sheikh, Razia B

Batch Method: 7470A Batch End Date: 12/14/18 14:00

Batch Notes	
Temperature - Corrected - End	95 Degrees C
Temperature - Corrected - Start	95 Degrees C
Digestion End Time	12/14/2018 12:30
Digestion Start Time	12/14/2018 10:30
Digestion Unit ID	12
Sulfuric Acid Lot Number	0000198960
Nitric Acid ID	00001488956
Hydroxylamine ID	ME_NACLHYDHCL_00106
Potassium Persulfate ID	ME_PotPersSol_00049
Potassium Permanganate ID	ME_potPermSol_00103
Pipette/Syringe/Dispenser ID	86
Thermometer ID	hg-2(cf+3)
Digestion Tube/Cup ID	j312676-1599
Temperature - Uncorrected - End	92 Degrees C
Temperature - Uncorrected - Start	92 Degrees C

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.

Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Mike Marricano	Samplers Name (Printed) Mike Marricano	Site/Project Identification EJ1815811.001	
Company Whitestone Associates	P. O. # EJ1815811.001	State (Location of site): NJ: X NY: ☐	Other:
		Regulatory Program: NJDEP	DKQP: ☐
Address 35 Technology Drive	Analysis Turnaround Time: Standard: X	ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)	LAB USE ONLY Project No:
City Warren State NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week: X Other ☐		Job No: 170982
Phone 908-668-7777 Fax			

Sample Identification	Date	Time	Matrix	No. of Cont.	VOA's	BN+15 (Limited)	TAL Metals	5-Day RUSH	Sample Numbers
9999-23-MW01-GW01-12052018	12-5-18	1210	GW	6	X	X	X		1
9999-23-MW02-GW01-12052018		0900		6	X	X	X		2
9999-23-MW03-GW01-12052018		1030		6	X	X	X		3
9999-23-FB-BK01-12052018		1500		6	X	X	X		4
9999-23-TB-BK01-12052018		—		2	X				5

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

Soil: | Water: 2 | | 4

460-170982 Chain of Custody

Special Instructions WaWa

Water Metals Filtered (Yes/No)? NO

Relinquished by	Company	Date / Time	Received by	Company
1)	Whitestone	12/6/18 1300	1)	TAEST
Relinquished by 2)	Company TAEST	Date / Time 12/6/18 1350	Received by 2)	Company TA ed. 12/6/18 1350
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578) NO CS IR#9 5.2°C

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 170982

Number of Coolers: 1 IR Gun #: 07

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	5.2 °C	5.2 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				C2											
2				C2											
3				C2											
4				C2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: LS **Date:** 12/6/18

Login Sample Receipt Checklist

Client: Whitestone Associates, Inc.

Job Number: 460-170982-1
SDG Number: EJ1815811.001

Login Number: 170982
List Number: 1
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

WHITESTONE
ASSOCIATES, INC.

ATTACHMENT C
Geophysical Investigation Report

DELTA Geophysics Inc.

GEOPHYSICAL INVESTIGATION REPORT

SITE LOCATION:

108 Egg Harbor Road
Washington Township, New Jersey

PREPARED FOR:

Whitestone
35 Technology Drive
Warren, New Jersey

PREPARED BY:

Mike Mesaros
Delta Geophysics Inc.
738 Front Street
Catasauqua, PA 18032

December 11, 2018

Delta Geophysics, Inc. (Delta) is pleased to provide the results of the geophysical survey conducted at 108 Egg Harbor Road, Washington Township, New Jersey.

1.0 INTRODUCTION

On November 19th, 2018 Delta Geophysics personnel performed a limited geophysical investigation at 108 Egg Harbor Road, Washington Township, New Jersey. The area of interest was all accessible areas of the property. The property consists of the vacant lot at the intersection of Blackwood-Barnsboro Road and Egg Harbor Road, the southwestern portion of the mulch facility east of Blackwood-Barnsboro Road, and a vacant wooded lot west of Blackwood-Barnsboro Road. Subsurface conditions were unknown at the time of survey.

2.0 SCOPE OF WORK

The survey was conducted to locate and mark detectable underground utilities within close proximity to client proposed soil boring locations. A secondary objective was to locate any unknown subsurface anomalous features consistent with UST's, former excavations, or septic tanks throughout the survey area.

3.0 METHODOLOGY

Selection of survey equipment is dependent site conditions and project objectives. For this project the technician utilized the following equipment to survey the area of concern:

- Geophysical Survey Systems Inc. SIR-3000 cart-mounted Ground Penetrating Radar (GPR) unit with a 400 Mhz antenna.
- Radiodetection RD7000 precision utility locator.
- Fisher M-Scope TW-6 pipe and cable locator.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 1,000 MHz) to acquire subsurface information. Energy is propagated downward into the ground and is reflected back to the surface from boundaries at which there are electrical property contrasts. GPR is a method that is commonly used for environmental, engineering, archeological, and other shallow investigations.

The GSSI SIR-3000 GPR can accept a wide variety of antennas which provide various depths of penetration and levels of resolution. The 400 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced due to site-specific conditions. Signal penetration decreases with increased soil conductivity. Conductive materials attenuate or absorb the GPR signal. As depth increases the return signal becomes weaker. Penetration is the greatest in unsaturated sands and fine gravels. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, of other highly conductive materials significantly reduces GPR depth of penetration.

The GPR was configured to transmit to a depth of approximately 10 feet below the subsurface, but actual signal penetration was limited to approximately 2-4 feet below ground surface (bgs). The limiting factor was signal attenuation from near surface soils.

The RD7000 precision utility locator uses radio emission to trace the location of metal bearing utilities. This radio emission can be active or passive. Active tracing requires the attachment of a radio transmitter to the utility, passive tracing uses radio emissions that are present on the utility. Underground electrical utilities typically emit radio signals that this device can detect.

The TW-6 is designed to find pipes, cables and other metallic objects such as underground storage tanks. One surveyor can carry both the transmitter and receiver together, making it ideally suited for exploration type searches of ferrous metal masses. Metal detectors of this type operate by generating a magnetic field at the transmitter which causes metallic objects in the subsurface to generate a secondary magnetic field. The induced secondary field is detected by the receiver, which generates an audible tone equal to the strength of the secondary field.

4.0 SURVEY FINDINGS

All accessible areas of the property were examined during this investigation. Each boring location was examined with the RD7000 for potential subsurface utilities then the entire property was surveyed with GPR and TW-6 for other potential anomalies.

Metallic Anomalies

No metallic anomalies of interest were detected on the property.

Utility Survey

Delta performed a utility survey across the client specified area. The following utilities were identified: electrical conduits, natural gas, water, and sanitary sewer. All utilities were marked onsite with appropriate colors.

A site map (111918) is included with all located subsurface features.

5.0 SURVEY LIMITATIONS

GPR depth of penetration was limited to approximately 2-4 feet bgs. The limiting factor was due to conductive soils. Only areas in close proximity to the onsite building, the former building, and client proposed soil boring locations were surveyed. Delta did not have access to the basement of the onsite building. Interior access may aid Delta in identifying unknown utilities or detecting utilities otherwise not detectable without a direct connection to the pipe or conduit.

6.0 WARRANTIES AND DISCLAIMER

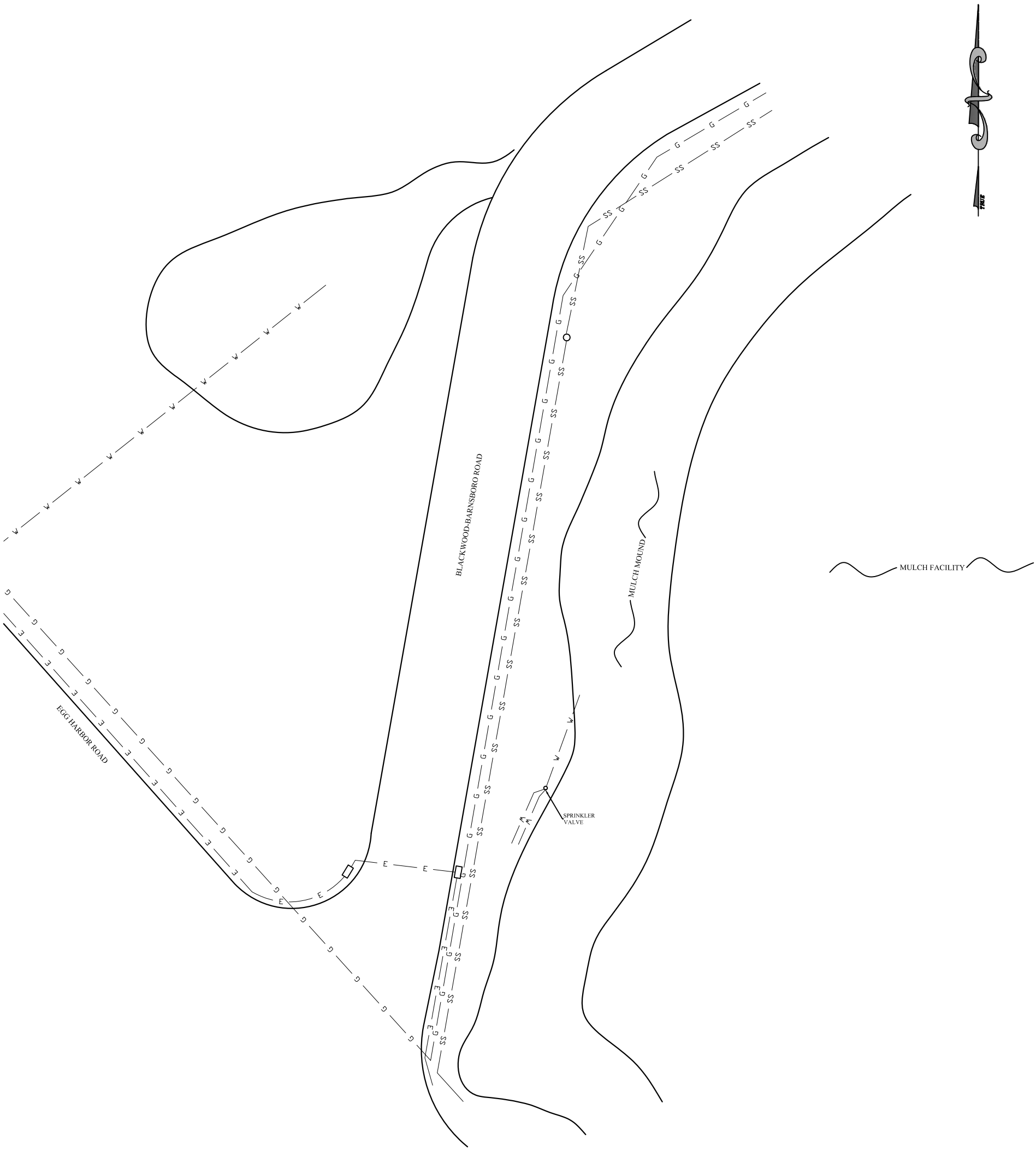
As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity to any anomalies indicated in this report. In addition, the absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically Delta's intent that the conclusions stated herein will be intended as guidance.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limit or scope of work, budget and schedule. Delta represents that the services were performed in a manner consistent with currently accepted professional practices employed by geophysical/geological consultants under similar

circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

This report was prepared pursuant to the contract Delta has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Delta and its client and serves as the basis upon which this report was prepared. Because of the importance of the understandings between Delta and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Delta.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Delta's contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.



NOTES:

This site plan was produced from data positioned by differential GPS measurments collected in the field. Due to the errors normally present in DGPS data, this document is not intended or represented to be of survey precision. Caution should be used in all field measurments based on this site plan.

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity of any anomalies indicated in this document The absence of detected signatures does not preclude the possibility that targets exist. The geophysical data and results presented in this site plan are based upon the application of scientific principles and professional judgements to certain facts with resultant subjective interpretations. Professional judgements expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget, and schedule.

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0 20 40 80 120

GRAPHIC SCALE IN FEET

LEGEND

- UTILITY VALVE COVER
- MANHOLE COVER
- E — ELECTRIC
- G — GAS
- SS — SANITARY SEWER
- W — WATER

DATE	11/19/18
SCALE	1'' = 40'
DWG NO.	111918
SHT NO.	1 OF 1
PROJECT.	

GEOPHYSICAL INVESTIGATION

108 EGG HARBOR ROAD, WASHINGTON TOWNSHIP, NEW JERSEY

FOR

WHITESTONE

DELTA Geophysics Inc.
738 Front Street, Catasauqua, PA 18032
Phone: (610) 231-73012